PFERD TOOLS

Tool Manual 2026

Your personal consultation

Do you have any questions regarding PFERD TOOLS products and solutions? Together with our retail partners, we offer qualified support, free of charge and without obligation. Don’t hesitate to contact us directly. To find a PFERD TOOLS retailer near you, visit: www.pferd.com

Innovative by Tradition

More modern, more international, more digital: Our new look shows the direction in which we are continuing to evolve for our customers. Innovative by Tradition encapsulates what makes us unique: the combination of tradition and constant innovation. In keeping with this principle, our high-performing new products can be found here in the Tool Manual.

Find what you are looking for here.

In our Tool Manual, you will find our complete product range featuring over 11,000 tools and tool drives, along with plenty of information about our tool solutions.

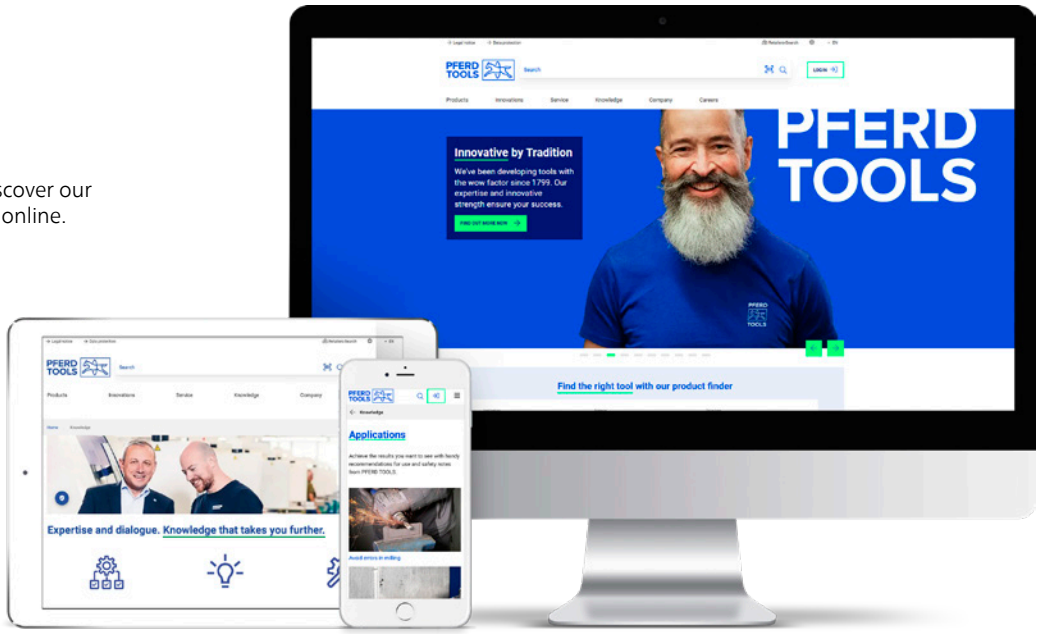
Product search

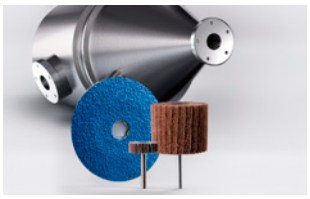
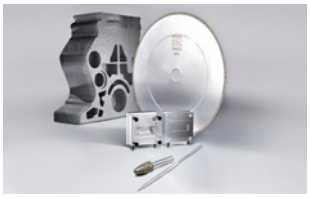
If you are looking for a specific product in the Tool Manual, the tool navigation at the beginning of catalogue sections 1 to 9 will help you. The QR codes in the product catalogue provide further, detailed product information. Or why not take advantage of our convenient, digital Tool Manual – simply click the desired item to find out more about it. On our website, you can find the solution you're looking for using the product finder on the homepage.

New products and discontinued items

We have marked new products in our range with blue item numbers for you. Discontinued items can be identified by the *italic* item numbers. They are assigned to the corresponding product tables in catalogue sections 1 to 9. You can find a complete overview of the new products at the end of the Tool Manual.

Stay up to date and discover our new products digitally online.



General information	PFERD TOOLS – About us Products Services	
Files	Chamfering Finishing Sharpening	
Milling, drilling and countersinking tools	Deburring Machining of contours Cutting out holes Drilling and countersinking	
Mounted points	Machining of geometries Chamfering Cleaning	
Fine grinding and polishing tools	Creation of surfaces Levelling Polishing	
Diamond and CBN tools	Filing Grinding Cutting	
Cut-off wheels, flap discs and grinding wheels	Cutting Roughing Grinding	
Cut-off wheels for stationary applications	Cutting to size Cutting of large cross sections Cutting rails	
Industrial power brushes	Deburring Cleaning of weld seams Cleaning/derusting	
Tool drives	Robot spindles Air grinders Electric grinders DIN 10/DIN 15 drive systems	
Solid carbide tools	Milling Drilling Deburring	

PFERD TOOLS – Innovation and quality since 1799

PFERD TOOLS is synonymous with high-quality, precise and innovative tools with the wow factor. We've been developing solutions for work on surfaces and for cutting and machining materials since 1799. Our vision? To enable our customers' success.

We're an independent, dynamic and forward-thinking family-run company with a clear focus on driving sustainable growth. We always put the needs of our customers and the challenges of the international markets at the heart of what we do.

We are present in more than 100 countries and available digitally at any time. With innovations, expertise and a clear mission: To create added value – for our customers and their projects.

What we stand for:
Innovative by Tradition – since 1799

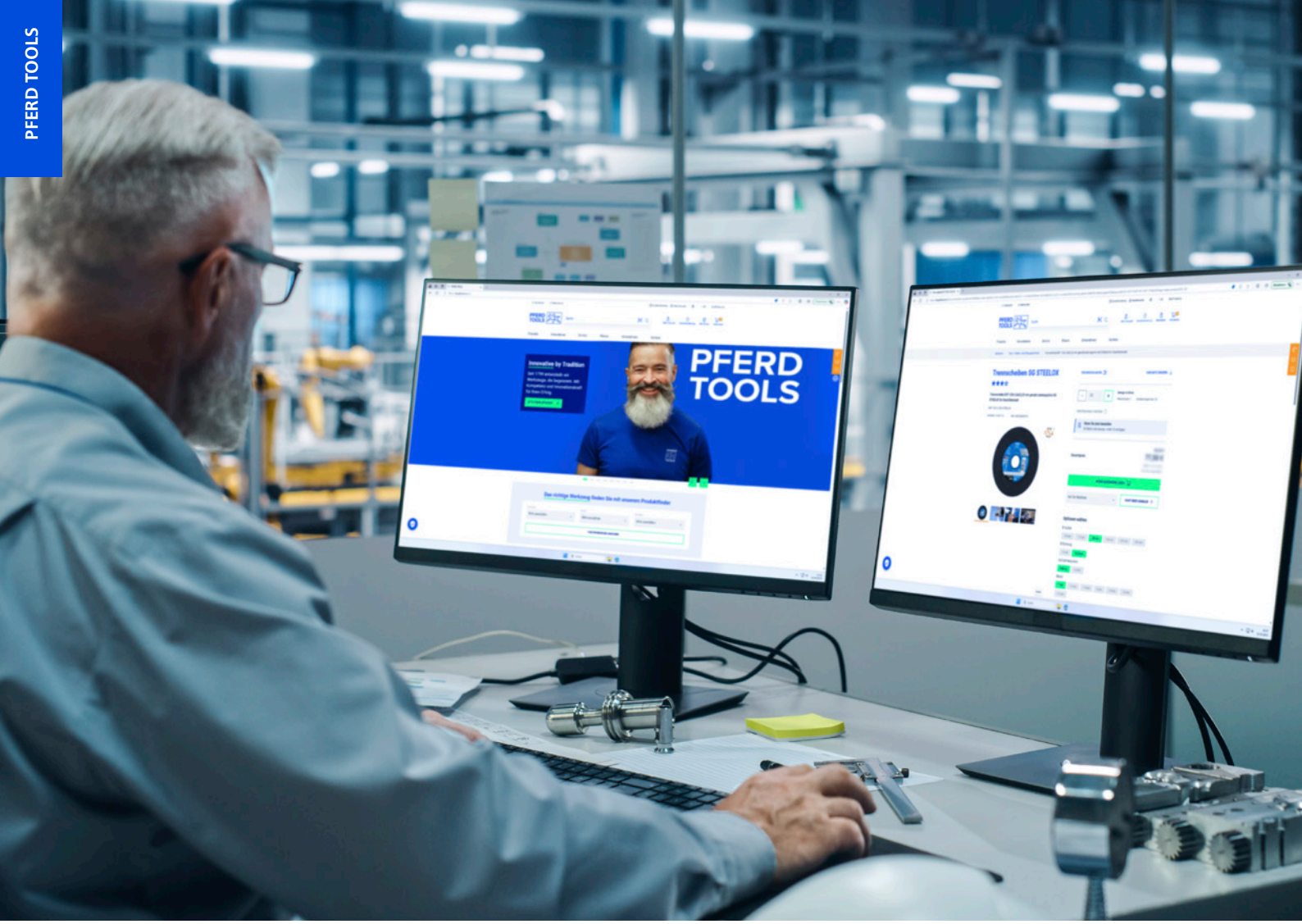
Our strength:
A leading, independent family-run company with over 225 years' experience and a global presence.

Our promise:
Premium quality – delivering the greatest benefits and measurable added value for our customers' productivity and success.

What we offer:
Cost-effective application solutions for a range of industries. Reliable partnership, comprehensive advice and first-class service worldwide.

Tool solutions with added value

With more than 225 years of experience, PFERD TOOLS is your reliable partner for collaboration based on trust. Our priority is our customers' success. This means that we create customized tool solutions by taking a holistic approach to our customers' manufacturing processes. PFERD TOOLS' comprehensive range of premium tools delivers productivity and efficiency to every job site. The aspect of ergonomics is always important in order to promote workplace safety and better health prevention for all users.



Your shop. Your tools. Your partner.

The PFERD TOOLS SHOP is a 360° customer platform for a straightforward, efficient and personalized information and shopping experience.

Your benefits at a glance

Get everything from a single source:
11,000 products available

Easily make your choice:
Detailed product information and application expertise

Easily obtain the information you need:
Comprehensive, high-quality data

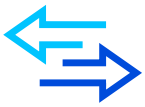
Place your order quickly:
Search and filter functions, watch lists, direct reorders

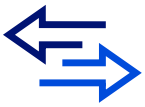
Find the ideal tool

PFERD TOOLS – the right tool for every application

With more than 11,000 tools for work on surfaces as well as cutting and machining materials, PFERD TOOLS provides the ideal tool solution for every application. The correct tool is determined by the application, the material to be worked and the appropriate tool drive.

The tool navigation in the introduction of the respective catalogue sections 1 to 9 will help you select the optimum tool.





Application

The application determines the choice of drive and tool. The following factors should be taken into account:

- The desired work result, e.g. high stock removal, high surface quality.
- The operating conditions, e.g. the power supply, stationary or manual application.
- The workpiece to be worked, e.g. its dimensions, geometry and accessibility.
- The duration of use, e.g. individual or mass production.
- Requirements and ergonomic advantages in accordance with labour protection laws.

Material

The varying properties of the materials place individual requirements on the tools used to work on them. Products from PFERD TOOLS are especially designed for the differing material properties and thus allow the highest possible levels of cost-effectiveness and the very best results.

Tool drive

The tool drive that is used has a significant influence on the cost-effectiveness of the machining process. Selecting the ideal drive, i.e. air grinder, electric grinder and flexible shaft drive, takes into account:

- Design, shape and size
- Power output
- Rotational speed
- Tool mounting
- Power supply

Ensuring greater cost-effectiveness through quality

Quality is directly connected with benefit and customer satisfaction. That's why PFERD TOOLS invests in basic and applied research and develops innovative high-performance products. Our own machine and plant construction, and the continuous testing and further development of the quality and safety standards in our own laboratories, all guarantee the proverbial PFERD TOOLS quality.

As a founder member of the Organization for the Safety of Abrasives (oSa), PFERD TOOLS also offers the highest possible levels of safety for the user by constantly monitoring manufacturing in all PFERD TOOLS production facilities worldwide.

PFERD TOOLS quality management is certified according to ISO 9001.

Just get in touch.
Our experts would be glad to help you find the optimum tool.

Innovations & expertise
Our mission is to enable you to succeed. Boost your productivity and make your production processes more efficient.

You can rely on PFERD TOOLS.

In-house research and development:
Around 400 new products introduced every year.

Market proximity and customer focus:
Future-proof solutions created through close collaboration between the Development, Product Management and Production teams.

Quality assurance:
Continuous testing and further development of quality and safety standards.

Custom-made products:
We develop customized solutions for our customers' applications – always with the aim of maximizing their cost-effectiveness.

Achieving success together. Online and on site.

Within the marketplace, PFERD TOOLS is perfectly at home within trade circles. The global trade network guarantees a fast response. Through ongoing training, our retail partners serve as the ideal advisors for our users.

Strong partnerships – working together:
On site, in store or online: PFERD TOOLS provides effective support for its retail partners.

Our services at a glance:

- Personal consultations: on site and digitally.
- Tailor-made tool solutions: designed precisely for your needs.
- PFERD TOOLS MOBILE: always nearby for tool consultation and demonstrations.
- Strong support on site: PFERD TOOLS CENTER for eye-catching product presentation, sales-promoting marketing materials and exclusive sales and customer support.
- Effective logistics: fast and reliable deliveries with an availability of almost 100% and Europe-wide deliveries within 24 hours.
- The latest knowledge and expertise: Tool Manual, website, PFERD TOOLS ACADEMY, extensive data service.
- Holistic service: spare parts, maintenance and repair service, calculators for rotational speed, fit and tolerances.

Scan the QR code to find your nearest expert PFERD TOOLS retail partner.

E-commerce: top selling with PFERD TOOLS.

PFERD TOOLS offers a high-seller range specially tailored to your needs in e-commerce. To ensure PFERD TOOLS products are optimally presented in the digital world, we provide comprehensive and high-quality product information, images and videos as part of the PFERD TOOLS data service. The aim is to continue to achieve success together in the future.

Electronic order processing is an efficient way of reducing your process costs and speeding up order processing. With the PFERD TOOLS SHOP, EDI, EDI CSV and nexMart, we offer you different digital ordering methods. You will, of course, receive all-round support and we are happy to advise you.

Scan the QR code for more information on the topic of e-commerce with PFERD TOOLS.

Advice, service, knowledge

Your success is what drives us

To ensure that our high-quality tools and tool drives can be used to their fullest potential, our sales representatives, technical customer advisors and PFERD TOOLS MOBILE work together with our customers every day to find the best solution for their applications. We can also develop customized solutions on request.

Sharing knowledge

In-depth knowledge of the interactions of tool, material and tool drive forms the foundation for the optimization of machining processes. This knowledge is provided by our experts here in the Tool Manual, on our website, in our PFERD TOOLS community on social media and, above all, in our PFERD TOOLS ACADEMY. The academy allows us to share our knowledge through seminars, helping our customers become PFERD TOOLS product specialists step by step.

Professional tool demonstration

The PFERD TOOLS MOBILE is the mobile PFERD TOOLS workshop for on-site tool consultation and demonstrations. The PFERD TOOLS MOBILE team works together with our retail partners to find suitable solutions for application problems.

An experienced application specialist presents the tools in the PFERD TOOLS MOBILE. They can adapt flexibly to your needs, offer expert technical advice and can present a tailored demonstration programme in coordination with our customers.

Scan the QR code for more information on what the PFERD TOOLS ACADEMY offers.

PFERD TOOLS
ACADEMY

Fast and reliable logistics

Almost 100% availability and a reliable global logistics network with our own warehouses worldwide ensure short delivery times and maximum planning reliability. Orders are on their way to our customers within 24 hours.

This not only ensures stock availability for our retail partners but also makes sure that our customers' projects keep moving without delays.

Global presence

We are always there for you – worldwide, in person and digitally. PFERD TOOLS is globally present and locally committed, with a thorough understanding of your individual requirements.

Including a location near you.

10
production sites

24
international distribution companies

100
trading partner representatives

> 200
customer advisors

You can find all contact persons, subsidiaries, distribution companies and national and international representative offices here.

General terms and conditions of sale

Our general terms and conditions of sale apply, which you can view at **www.pferd.com/conditions**.

Scan the QR code for more information about our general terms and conditions of sale.

EC REACH Regulation (1907/2006/EC)

By adopting REACH (concerning the registration, evaluation and authorization of chemicals), legislators have sought to minimize the hazards and risks associated with chemical substances and to ensure a higher level of protection for humans and the environment.

Information about products from PFERD TOOLS in the context of the EC REACH Regulation can be found on our website **www.pferd.com/reach**.

PFERD TOOLS maintenance and repair service

PFERD TOOLS offers a maintenance and repair service at its Marienheide location, including basic cleaning, repairs and final safety inspections performed in-house. We will be happy to draw up a detailed, no-obligation quotation without delay.

Please send any queries to: **pferd.power.tools@pferd.com**

PFERD TOOLS

1

Files

Files
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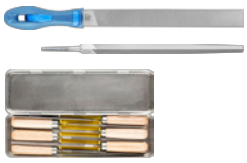

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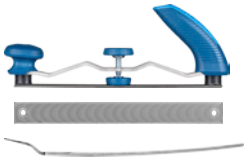

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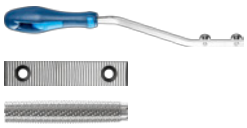

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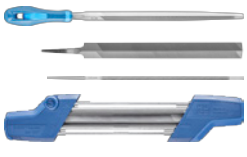

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Files
Highlights from the PFERD TOOLS range

Precision files

PFERD TOOLS precision files are expected to deliver nothing less than outstanding geometric accuracy, cutting performance and tool life.

Due to their exact geometry, precision files are also suitable for installation tasks and for working on complex devices and machines in line with the highest precision standards.

Advantages:
- Particularly suitable for work on small and delicate workpieces.
- Exact geometry.
- Wide range of highly precise cuts for numerous applications in precision machining.

CHAIN SHARP CS-X chain saw sharpener

Sharpening using chain saw files and depth gauge files requires you to have a lot of experience. Thanks to the chain saw sharpeners from PFERD TOOLS, users who do not have as much experience can also achieve precise and uniform sharpening results.The CHAIN SHARP CS-X chain saw sharpener combines the functions of a depth gauge file and chain saw file in one. It allows the saw tooth to be sharpened whilst the depth gauge is adjusted at the same time. Scan the QR code to find out more about PFERD TOOLS' range of chain saw sharpeners.

Advantages:
- Turn the device over to change from the right to the left tooth, no conversion work required.
- Optimized shape for precise guidance and optimal sharpening results.
- Improved shape makes it easy to replace the files.

Tungsten carbide files

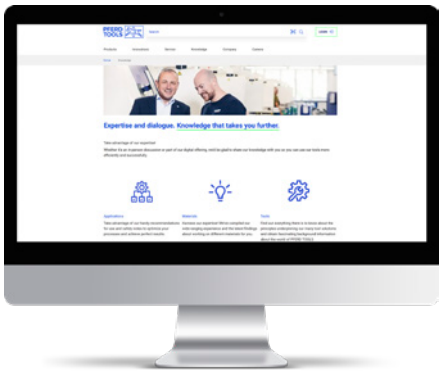
PFERD TOOLS' tungsten carbide files impress with their extremely high degree of hardness, wear resistance and long service life.

PFERD TOOLS offers tungsten carbide files in a flat version with radial and convex cut pattern for working on flat and convex surfaces, and in a round version for working on concave shapes and for reworking internal radii. For optimum file control, optimum filing results and a rapid tool change, PFERD TOOLS recommends the use of tungsten carbide files on the specially developed, reusable and ergonomically shaped file holders with ergonomic file handle. Scan the QR code to find out more about PFERD TOOLS' range of tungsten carbide files.

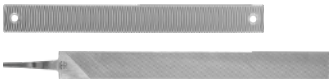
Advantages:
- Suitable for use on steel and steel materials with hardness > 54 HRC.

More expert information online

Scan the QR code to find out a wide range of tool and application knowledge relating to PFERD TOOLS' high-quality tools and their huge variety of materials.



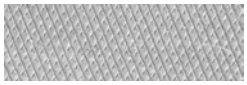
Files
The quick way to find the perfect tool

Use	Material	Applications	Tool
Filing 	■ Steel ■ Stainless steel (INOX) ■ Cast iron ■ Cast steel ■ Non-ferrous metals ■ Copper ■ Bronze ■ Brass ■ Zinc	■ Chamfering ■ Deburring ■ Roughing ■ Finishing ■ Surface work ■ Filing of breakthroughs	Files for the workshop Files for aluminium Milled tooth files Precision files
		■ Working hard materials	Tungsten carbide files
		■ Cleaning and smoothing brake callipers and contact surfaces of brake pads ■ Removing brake dust, rust and other dirt from brake calliper bores	Brake calliper files
Sharpening 	■ Saw chains ■ Saw blades ■ Band saw blades ■ Knives ■ Machetes	■ Sharpening of saw chains, blades, and band saw blades	Chain saw files Three square saw files Mill saw files CHAIN SHARP chain saw sharpeners
Car body work 	■ Sheet metal ■ Non-ferrous metals ■ Plastics	■ Surface work ■ Deburring ■ Removal of solder spots ■ Removal of weld spots	Car body files 
		■ Removal of thin paint layers ■ Correction of painting faults	Paint peeler
Soft material work 	■ Wood ■ Plastics ■ Soft stone ■ Horn	■ Roughing ■ Finishing ■ Surface work ■ Deburring ■ Chamfering	Wood files Wood rasps Hoof plane and horse rasps Special rasps

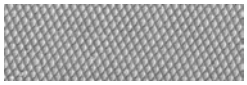
Files
The most common PFERD TOOLS cuts

Files for the workshop

Cut 1
- Cross cut for coarse stock removal and roughing.



Cut 2
- Cross cut for universal roughing and finishing.

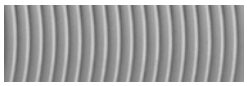


Cut 3
- Cross cut for precision processing and finishing.

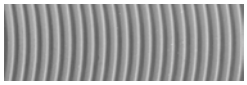
Car body files

Cut 00
- Radial cut for very coarse stock removal and roughing.
- Creates score-free surfaces.

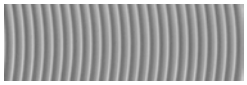
Cut 0
- Radial cut for coarse stock removal and roughing.
- Creates score-free surfaces.



Cut 1
- Radial cut for coarse stock removal and roughing.
- Creates score-free surfaces.

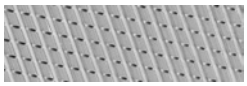


Cut 2
- Radial cut for general roughing and finishing.
- Creates score-free surfaces.

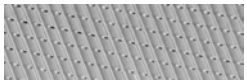


Cut 3
- Radial cut for fine stock removal and finishing.
- Creates score-free surfaces.

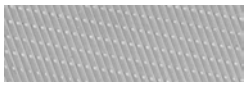
Milled tooth files



Cut 1
- Straight cut for coarse stock removal on soft metals.
- Because of its milled tooth shape with large flutes, the teeth do not clog up.

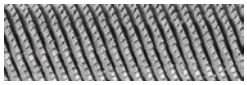


Cut 2
- Straight cut for general roughing and finishing on soft metals.
- Because of its milled tooth shape with large flutes, the teeth do not clog up.

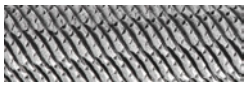


Cut 3
- Straight cut for fine stock removal on soft metals.
- Because of its milled tooth shape with large flutes, the teeth do not clog up.

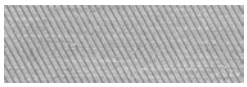
Sharpening files



Classic
- Classic spiral cut for users who prefer a softer filing action.



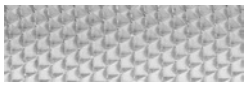
Premium
- Innovative spiral cut for users who prefer a softer filing action.



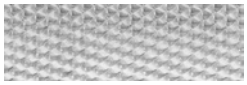
Single cut Cut 2
- Single cut.
- Universally suited to sharpening.

Rasps

Cut 1
- Rasp cut for very coarse stock removal.

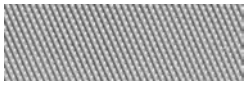


Cut 2
- Rasp cut for coarse stock removal.



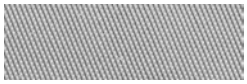
Cut 3
- Rasp cut for coarse stock removal.

Precision files

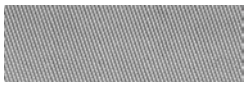


Cut 00
- Cross cut for very coarse precision work.

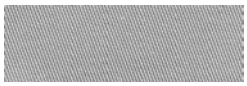
Files
The most common PFERD TOOLS cuts



Cut 0
- Cross cut for coarse precision work.



Cut 1
- Cross cut for medium precision work.



Cut 2
- Cross cut for medium-fine precision work.

Cut 3
- Cross cut for fine precision work.

Cut 4
- Cross cut for very fine precision work.

Machinist's files, DIN series

Hand (1112)

Rectangular files, cut on three sides, one side uncut. Tanged design. Shape A in accordance with DIN 7261. Suitable for work on rectangular geometries.

Special features:
- Uniformly high stock removal rate.
- Long tool life.
- Suitable for use on aluminium, bronze, copper, brass, zinc, grey cast iron, steels up to 1,200 N/mm² and cast steel.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Matching handle	Incl. handle		Item no.	Designation
Industrial packaging (without handle)									
1112	100	1	12	2.5	FH 3	-	10	11101101	1112 100 H1
		2	12	2.5	FH 3	-	10	11101102	1112 100 H2
		3	12	2.5	FH 3	-	10	11101103	1112 100 H3
	150	1	16	4	FH 3	-	10	11101151	1112 150 H1
		2	16	4	FH 3	-	10	11101152	1112 150 H2
		3	16	4	FH 3	-	10	11101153	1112 150 H3
	200	1	20	5	FH 4/1	-	10	11101201	1112 200 H1
		2	20	5	FH 4/1	-	10	11101202	1112 200 H2
		3	20	5	FH 4/1	-	10	11101203	1112 200 H3
	250	1	25	6	FH 4/1	-	10	11101251	1112 250 H1
		2	25	6	FH 4/1	-	10	11101252	1112 250 H2
		3	25	6	FH 4/1	-	10	11101253	1112 250 H3
	300	1	30	6.5	FH 5/1	-	5	11101301	1112 300 H1
		2	30	6.5	FH 5/1	-	5	11101302	1112 300 H2
		3	30	6.5	FH 5/1	-	5	11101303	1112 300 H3
	350	1	35	7.5	FH 5/1	-	5	11101351	1112 350 H1
		2	35	7.5	FH 5/1	-	5	11101352	1112 350 H2

Continued on next page

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Matching handle	Incl. handle		Item no.	Designation
POS packaging (with ergonomic file handle)									
1112	150	1	16	4	-	FH 3	1	11210156	PF 1112 150 H1
		2	16	4	-	FH 3	1	11210157	PF 1112 150 H2
		3	16	4	-	FH 3	1	11210158	PF 1112 150 H3
	200	1	20	5	-	FH 4/1	1	11210206	PF 1112 200 H1
		2	20	5	-	FH 4/1	1	11210207	PF 1112 200 H2
		3	20	5	-	FH 4/1	1	11210208	PF 1112 200 H3
	250	1	25	6	-	FH 4/1	1	11210256	PF 1112 250 H1
		2	25	6	-	FH 4/1	1	11210257	PF 1112 250 H2
		3	25	6	-	FH 4/1	1	11210258	PF 1112 250 H3
	300	1	30	6.5	-	FH 5/1	1	11210306	PF 1112 300 H1
		2	30	6.5	-	FH 5/1	1	11210307	PF 1112 300 H2
		3	30	6.5	-	FH 5/1	1	11210308	PF 1112 300 H3

Flat (1122)

Rectangular file, tapered and cut on four sides. Tanged version. Shape B according to DIN 7261. Suitable for work on rectangular geometries.

Special features:
- Uniformly high stock removal rate.
- Long tool life.
- Suitable for use on aluminium, bronze, copper, brass, zinc, grey cast iron, steels up to 1,200 N/mm² and cast steel.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Matching handle	Incl. handle		Item no.	Designation
Industrial packaging (without handle)									
1122	100	1	12	2.5	FH 3	-	10	11103101	1122 100 H1
		2	12	2.5	FH 3	-	10	11103102	1122 100 H2
		3	12	2.5	FH 3	-	10	11103103	1122 100 H3
	150	1	16	4	FH 3	-	10	11103151	1122 150 H1
		2	16	4	FH 3	-	10	11103152	1122 150 H2
		3	16	4	FH 3	-	10	11103153	1122 150 H3
	200	1	20	5	FH 4/1	-	10	11103201	1122 200 H1
		2	20	5	FH 4/1	-	10	11103202	1122 200 H2
		3	20	5	FH 4/1	-	10	11103203	1122 200 H3
	250	1	25	6	FH 4/1	-	10	11103251	1122 250 H1
		2	25	6	FH 4/1	-	10	11103252	1122 250 H2
		3	25	6	FH 4/1	-	10	11103253	1122 250 H3
	300	1	30	6.5	FH 5/1	-	5	11103301	1122 300 H1
		2	30	6.5	FH 5/1	-	5	11103302	1122 300 H2
		3	30	6.5	FH 5/1	-	5	11103303	1122 300 H3
	350	1	35	7.5	FH 5/1	-	5	11103351	1122 350 H1
POS packaging (with ergonomic file handle)									
1122	150	1	16	4	-	FH 3	1	11216156	PF 1122 150 H1
		2	16	4	-	FH 3	1	11216157	PF 1122 150 H2
		3	16	4	-	FH 3	1	11216158	PF 1122 150 H3
	200	1	20	5	-	FH 4/1	1	11216206	PF 1122 200 H1

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Files for the workshop
Machinist's files, DIN series

PFERD TOOLS

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Matching handle	Incl. handle		Item no.	Designation
1122	200	2	20	5	-	FH 4/1	1	11216207	PF 1122 200 H2
		3	20	5	-	FH 4/1	1	11216208	PF 1122 200 H3
	250	1	25	6	-	FH 4/1	1	11216256	PF 1122 250 H1
		2	25	6	-	FH 4/1	1	11216257	PF 1122 250 H2
		3	25	6	-	FH 4/1	1	11216258	PF 1122 250 H3
	300	1	30	6.5	-	FH 5/1	1	11216306	PF 1122 300 H1
		2	30	6.5	-	FH 5/1	1	11216307	PF 1122 300 H2
		3	30	6.5	-	FH 5/1	1	11216308	PF 1122 300 H3

Three square (1132)

Triangular file, tapered and cut on three sides. Tanged version. Shape C according to DIN 7261. Suitable for filing angular profiles.

Special features:
- Uniformly high stock removal rate.
- Long tool life.
- Suitable for use on aluminium, bronze, copper, brass, zinc, grey cast iron, steels up to 1,200 N/mm² and cast steel.

Profile	Length [mm]	Cut	Width [mm]	Matching handle	Incl. handle		Item no.	Designation
Industrial packaging (without handle)								
1132	100	1	8	FH 3	-	10	*11108101*	1132 100 H1
		2	8	FH 3	-	10	11108102	1132 100 H2
		3	8	FH 3	-	10	*11108103*	1132 100 H3
	150	1	11	FH 3	-	10	11108151	1132 150 H1
		2	11	FH 3	-	10	11108152	1132 150 H2
		3	11	FH 3	-	10	11108153	1132 150 H3
	200	1	13	FH 4	-	10	11108201	1132 200 H1
		2	13	FH 4	-	10	11108202	1132 200 H2
		3	13	FH 4	-	10	11108203	1132 200 H3
	250	1	15.5	FH 5	-	10	11108251	1132 250 H1
		2	15.5	FH 5	-	10	11108252	1132 250 H2
		3	15.5	FH 5	-	10	11108253	1132 250 H3
	300	1	18	FH 5	-	5	11108301	1132 300 H1
		2	18	FH 5	-	5	11108302	1132 300 H2
POS packaging (with ergonomic file handle)								
1132	150	1	11	-	FH 3	1	11211156	PF 1132 150 H1
		2	11	-	FH 3	1	11211157	PF 1132 150 H2
		3	11	-	FH 3	1	11211158	PF 1132 150 H3
	200	1	13	-	FH 4	1	11211206	PF 1132 200 H1
		2	13	-	FH 4	1	11211207	PF 1132 200 H2
		3	13	-	FH 4	1	11211208	PF 1132 200 H3
	250	1	15.5	-	FH 5	1	11211256	PF 1132 250 H1
		2	15.5	-	FH 5	1	11211257	PF 1132 250 H2

Discontinued product

Files for the workshop
Machinist's files, DIN series

Square (1142)

Square file, tapered and cut on four sides. Tanged version. Shape D according to DIN 7261. Suitable for filing angular profiles.

Special features:
- Uniformly high stock removal rate.
- Long tool life.
- Suitable for use on aluminium, bronze, copper, brass, zinc, grey cast iron, steels up to 1,200 N/mm² and cast steel.

Profile	Length [mm]	Cut	Width [mm]	Matching handle	Incl. handle		Item no.	Designation
Industrial packaging (without handle)								
1142	100	1	4	FH 2	-	10	11104101	1142 100 H1
		2	4	FH 2	-	10	11104102	1142 100 H2
		3	4	FH 2	-	10	11104103	1142 100 H3
	150	1	6	FH 3	-	10	11104151	1142 150 H1
		2	6	FH 3	-	10	11104152	1142 150 H2
		3	6	FH 3	-	10	11104153	1142 150 H3
	200	1	8	FH 4	-	10	11104201	1142 200 H1
		2	8	FH 4	-	10	11104202	1142 200 H2
		3	8	FH 4	-	10	11104203	1142 200 H3
	250	1	10	FH 4	-	10	11104251	1142 250 H1
		2	10	FH 4	-	10	11104252	1142 250 H2
		3	10	FH 4	-	10	11104253	1142 250 H3
	300	1	12	FH 5	-	5	11104301	1142 300 H1
		2	12	FH 5	-	5	11104302	1142 300 H2
POS packaging (with ergonomic file handle)								
1142	150	1	6	-	FH 3	1	11212156	PF 1142 150 H1
		2	6	-	FH 3	1	11212157	PF 1142 150 H2
	200	1	8	-	FH 4	1	11212206	PF 1142 200 H1
		2	8	-	FH 4	1	11212207	PF 1142 200 H2
	250	1	10	-	FH 4	1	11212256	PF 1142 250 H1
		2	10	-	FH 4	1	11212257	PF 1142 250 H2

Files for the workshop
Machinist's files, DIN series

Half-round (1152)

Half-round file, cut on two sides. Tanged version. Shape E according to DIN 7261. Suitable for work on radii and for filing of half-round shapes.

Special features:
- Excellent filing performance thanks to PFERD TOOLS spiral cut.
- Long tool life.
- Suitable for use on aluminium, bronze, copper, brass, zinc, grey cast iron, steels up to 1,200 N/mm² and cast steel.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Matching handle	Incl. handle		Item no.	Designation
Industrial packaging (without handle)									
1152	150	1	16	4.5	FH 3	-	10	11105151	1152 150 H1
		2	16	4.5	FH 3	-	10	11105152	1152 150 H2
		3	16	4.5	FH 3	-	10	11105153	1152 150 H3
	200	1	20	6	FH 4/1	-	10	11105201	1152 200 H1
		2	20	6	FH 4/1	-	10	11105202	1152 200 H2
		3	20	6	FH 4/1	-	10	11105203	1152 200 H3
	250	1	25	7	FH 4/1	-	10	11105251	1152 250 H1
		2	25	7	FH 4/1	-	10	11105252	1152 250 H2
		3	25	7	FH 4/1	-	10	11105253	1152 250 H3
	300	1	30	8.5	FH 5/1	-	5	11105301	1152 300 H1
		2	30	8.5	FH 5/1	-	5	11105302	1152 300 H2
		3	30	8.5	FH 5/1	-	5	11105303	1152 300 H3
	350	1	35	10	FH 5/1	-	5	11105351	1152 350 H1
POS packaging (with ergonomic file handle)									
1152	150	1	16	4.5	-	FH 3	1	11213156	PF 1152 150 H1
		2	16	4.5	-	FH 3	1	11213157	PF 1152 150 H2
		3	16	4.5	-	FH 3	1	11213158	PF 1152 150 H3
	200	1	20	6	-	FH 4/1	1	11213206	PF 1152 200 H1
		2	20	6	-	FH 4/1	1	11213207	PF 1152 200 H2
		3	20	6	-	FH 4/1	1	11213208	PF 1152 200 H3
	250	1	25	7	-	FH 4/1	1	11213256	PF 1152 250 H1
		2	25	7	-	FH 4/1	1	11213257	PF 1152 250 H2
		3	25	7	-	FH 4/1	1	11213258	PF 1152 250 H3
	300	1	30	8.5	-	FH 5/1	1	11213306	PF 1152 300 H1

Half-round pointed (1152 SP)

Half-round pointed file, cut on two sides. Tanged version. Shape E according to DIN 7261. Suitable for work on radii and for filing of half-round shapes.

Special features:
- Excellent filing performance thanks to PFERD TOOLS spiral cut.
- Long tool life.
- Suitable for use on aluminium, bronze, copper, brass, zinc, grey cast iron, steels up to 1,200 N/mm² and cast steel.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Matching handle	Incl. handle		Item no.	Designation
Industrial packaging (without handle)									
1152 SP	100	1	10.4	2.5	FH 3	-	10	11105101	1152 SP 100 H1
		2	10.4	2.5	FH 3	-	10	11105102	1152 SP 100 H2
		3	10.4	2.5	FH 3	-	10	11105103	1152 SP 100 H3
	150	1	16	4.5	FH 3	-	10	11125151	1152 SP 150 H1
		2	16	4.5	FH 3	-	10	11125152	1152 SP 150 H2
		3	16	4.5	FH 3	-	10	11125153	1152 SP 150 H3
	200	1	20	6	FH 4/1	-	10	11125201	1152 SP 200 H1
		2	20	6	FH 4/1	-	10	11125202	1152 SP 200 H2
		3	20	6	FH 4/1	-	10	11125203	1152 SP 200 H3
	250	1	25	7	FH 4/1	-	10	11125251	1152 SP 250 H1
		2	25	7	FH 4/1	-	10	11125252	1152 SP 250 H2
		3	25	7	FH 4/1	-	10	11125253	1152 SP 250 H3
	300	1	30	8.5	FH 5/1	-	5	11125301	1152 SP 300 H1
		2	30	8.5	FH 5/1	-	5	11125302	1152 SP 300 H2
		3	30	8.5	FH 5/1	-	5	11125303	1152 SP 300 H3
	350	1	35	10	FH 5/1	-	5	11125351	1152 SP 350 H1
POS packaging (with ergonomic file handle)									
1152 SP	150	1	16	4.5	-	FH 3	1	11235156	PF 1152 SP 150 H1
		2	16	4.5	-	FH 3	1	11235157	PF 1152 SP 150 H2
		3	16	4.5	-	FH 3	1	11235158	PF 1152 SP 150 H3
	200	1	20	6	-	FH 4/1	1	11235206	PF 1152 SP 200 H1
		2	20	6	-	FH 4/1	1	11235207	PF 1152 SP 200 H2
		3	20	6	-	FH 4/1	1	11235208	PF 1152 SP 200 H3
	250	1	25	7	-	FH 4/1	1	11235256	PF 1152 SP 250 H1
		2	25	7	-	FH 4/1	1	11235257	PF 1152 SP 250 H2
		3	25	7	-	FH 4/1	1	11235258	PF 1152 SP 250 H3
	300	1	30	8.5	-	FH 5/1	1	11235306	PF 1152 SP 300 H1
		2	30	8.5	-	FH 5/1	1	11235307	PF 1152 SP 300 H2
		3	30	8.5	-	FH 5/1	1	11235308	PF 1152 SP 300 H3

Files for the workshop
Machinist's files, DIN series

Round (1162)

Round file with circumferential cut. Tanged version. Shape F according to DIN 7261. Suitable for work on radii and for filing profiles with inner radii.

Special features:
- Excellent filing performance thanks to PFERD TOOLS spiral cut.
- Long tool life.
- Suitable for use on aluminium, bronze, copper, brass, zinc, grey cast iron, steels up to 1,200 N/mm² and cast steel.

Profile	Length [mm]	Cut	Diameter [mm]	Matching handle	Incl. handle		Item no.	Designation
Industrial packaging (without handle)								
1162	100	1	4	FH 2	-	10	11107101	1162 100 H1
		2	4	FH 2	-	10	11107102	1162 100 H2
		3	4	FH 2	-	10	11107103	1162 100 H3
	150	1	6	FH 3	-	10	11107151	1162 150 H1
		2	6	FH 3	-	10	11107152	1162 150 H2
		3	6	FH 3	-	10	11107153	1162 150 H3
	200	1	7.5	FH 4	-	10	11107201	1162 200 H1
		2	7.5	FH 4	-	10	11107202	1162 200 H2
		3	7.5	FH 4	-	10	11107203	1162 200 H3
	250	1	9.5	FH 4	-	10	11107251	1162 250 H1
		2	9.5	FH 4	-	10	11107252	1162 250 H2
		3	9.5	FH 4	-	10	11107253	1162 250 H3
	300	1	12	FH 5	-	5	11107301	1162 300 H1
		2	12	FH 5	-	5	11107302	1162 300 H2
		3	12	FH 5	-	5	11107303	1162 300 H3
	350	1	15	FH 5	-	5	11107351	1162 350 H1
POS packaging (with ergonomic file handle)								
1162	150	1	6	-	FH 3	1	11214156	PF 1162 150 H1
		2	6	-	FH 3	1	11214157	PF 1162 150 H2
		3	6	-	FH 3	1	11214158	PF 1162 150 H3
	200	1	7.5	-	FH 4	1	11214206	PF 1162 200 H1
		2	7.5	-	FH 4	1	11214207	PF 1162 200 H2
		3	7.5	-	FH 4	1	11214208	PF 1162 200 H3
	250	1	9.5	-	FH 4	1	11214256	PF 1162 250 H1
		2	9.5	-	FH 4	1	11214257	PF 1162 250 H2
		3	9.5	-	FH 4	1	11214258	PF 1162 250 H3
	300	1	12	-	FH 5	1	11214306	PF 1162 300 H1

Knife files (1172)

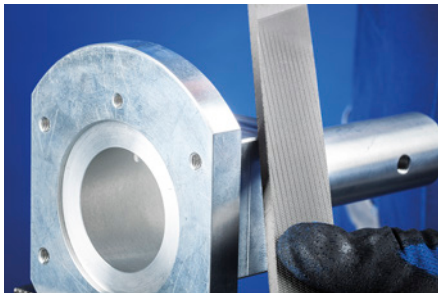
Triangular file with knife profile, cut on two sides and the narrow edge. Tanged version. Shape G according to DIN 7261. For work on very acute-angled and narrow geometries.

Special features:
- Uniformly high stock removal rate.
- Long tool life.
- Suitable for use on aluminium, bronze, copper, brass, zinc, grey cast iron, steels up to 1,200 N/mm² and cast steel.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Matching handle		Item no.	Designation
Industrial packaging (without handle)								
1172	150	2	16	5.2 x 1.25	FH 3	10	11109152	1172 150 H2
		3	16	5.2 x 1.25	FH 3	10	11109153	1172 150 H3
	200	1	20	6.4 x 1.5	FH 4/1	10	11109201	1172 200 H1
		2	20	6.4 x 1.5	FH 4/1	10	11109202	1172 200 H2
		3	20	6.4 x 1.5	FH 4/1	10	11109203	1172 200 H3
	250	1	25	7.9 x 1.75	FH 4/1	10	*11109251*	1172 250 H1
		2	25	7.9 x 1.75	FH 4/1	10	11109252	1172 250 H2

PFERD TOOLS PLUS files, hand type (1112)

Rectangular file, cut on three sides, one edge uncut. Tanged design. Shape A in accordance with DIN 7261. Excellent filing performance thanks to the special PFERD TOOLS PLUS cut. Suitable for work on rectangular geometries.



Special features:
- Easy and energy-saving working due to spade-like filing teeth.
- No clogging whilst processing soft materials thanks to a wide chip divider.
- Can be used generally for all hobby and DIY purposes.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Incl. handle		Item no.	Designation
POS packaging (with ergonomic file handle)								
1112	200	PLUS-cut	20	5	FH 4/1	1	11215206	PF 1112 PLUS 200
	250	PLUS-cut	25	6	FH 4/1	1	11215256	PF 1112 PLUS 250
	300	PLUS-cut	30	6.5	FH 5/1	1	11215306	PF 1112 PLUS 300

Discontinued product

Files for the workshop
Machinist's files, DIN series

Machinist's files in plastic pouch WR

Quality files for industry and trade in a protective and climate-resistant PVC pouch for storage in a toolbox or on a workbench. Each file comes with an ergonomic file handle.

Special features:
- Suitable for a wide range of applications.

Length [mm]	Contents		Item no.	Designation
WR design = Machinist's files in plastic pouch				
200	1112 200 H1, 1142 200 H1, 1152 200 H1, 1162 200 H1, 1552 200 H2	1	11800520	520 WR 200
	1112 200 H1, 1132 200 H1, 1142 200 H1, 1152 SP 200 H1, 1162 200 H1	1	11800531	531 WR 200
	1112 200 H2, 1132 200 H2, 1142 200 H2, 1152 SP 200 H2, 1162 200 H2	1	11800532	532 WR 200
	1112 200 H3, 1132 200 H3, 1142 200 H3, 1152 SP 200 H3, 1162 200 H3	1	11800533	533 WR 200
250	1112 250 H1, 1132 250 H1, 1142 250 H1, 1152 SP 250 H1, 1162 250 H1	1	11800541	541 WR 250
	1112 250 H2, 1132 250 H2, 1142 250 H2, 1152 SP 250 H2, 1162 250 H2	1	11800542	542 WR 250
	1112 250 H3, 1132 250 H3, 1142 250 H3, 1152 SP 250 H3, 1162 250 H3	1	11800543	543 WR 250
300	1112 300 H1, 1132 300 H1, 1142 300 H1, 1152 SP 300 H1, 1162 300 H1	1	11800551	551 WR 300
	1112 300 H2, 1132 300 H2, 1142 300 H2, 1152 SP 300 H2, 1162 300 H2	1	11800552	552 WR 300
200 / 300	1112 200 H1, 1112 300 H1, 1112 200 H2, 1112 300 H2, 1112 200 H3, 1112 300 H3	1	11800555	555 WR 200/300

File set

Quality files designed to meet the needs of DIY users in a protective cardboard box. Precise versions with a high stock removal rate and a long tool life. Also suitable for sharpening. Each file comes with an ergonomic file handle.

Contents:
The set consists of a PF 1512 VZ 200 H1/1 (file rasp), a PF 1152 200 H1 (half-round file) and a PF 1212 VZ 200 H1/2 (hobby file).

Length [mm]	Contents		Item no.	Designation
200	PF 1152 200 H1, PF 1212 VZ 200 H1/2, PF 1512 VZ 200 H1/1	1	11202300	PF-Set 300 200

Hobby file (1212)

Rectangular file with different cuts on three sides. Version with tang and ergonomic file handle. Cross cut 1 on front side for roughing, single cut 2 on back side and edge for sharpening.

Special features:
- For roughing and sharpening using the same tool.
- Versatile.
- Suitable for use on steel and cast steel.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Incl. handle		Item no.	Designation
POS packaging (with ergonomic file handle)								
1212	200	Cross cut 1 / single cut 2	25	4.5	FH 4/1	1	11273207	PF 1212 VZ 200 H1/2

File rasp (1512)

Rectangular file with different cuts on both flat sides. Version with tang and ergonomic file handle. Cross cut 1 on front side for roughing, rasp cut 1 on back side for rasping and one cut edge.

Special features:
- For roughing and sharpening using the same tool.
- Versatile.
- Suitable for use on soft non-ferrous metals, wood, plastics and steel.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Incl. handle		Item no.	Designation
POS packaging (with ergonomic file handle)								
1512	200	Cross cut 1 / rasp cut 1	20	5	FH 4/1	1	11232206	PF 1512 VZ 200 H1/1

Universal sharpening file (1212)

Rectangular file, tanged and single cut 2 on two sides, with rounded, uncut narrow edges and ergonomic file handle. Often referred to as a lawnmower file. Suitable for sharpening cutting tools.

Special features:
- Long tool life.
- High surface quality with optimum cutting performance.
- Suitable for use on steel and cast steel.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Incl. handle		Item no.	Designation
POS packaging (with ergonomic file handle)								
1212	200	Single cut 2	25	4.5	FH 4/1	1	11272207	PF 1212 ruk 200 H2

Fitter's file (611)

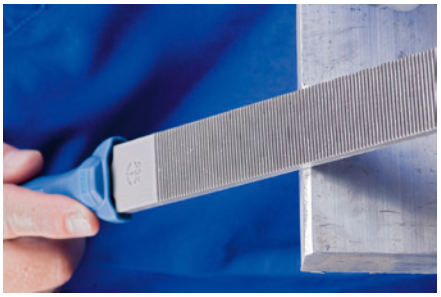
Rectangular file with different milled cuts, tanged and with ergonomic file handle. Straight cut with chip divider on front side, radial cut on rear, uncut edges.

Special features:
- Extremely robust design.
- Versatile.
- Suitable for use on aluminium, soft non-ferrous metals, wood, plastics, steels up to 1,200 N/mm² and cast steel.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Incl. handle		Item no.	Designation
POS packaging (with ergonomic file handle)								
611	250	Radial 1/straight 2	24	5.3	FH 4/1	1	11273256	PF 611 250 Z1/2

Files for aluminium, hand (1612 w)

Rectangular file, tanged and special cut on three sides, one edge uncut. Shape A according to DIN 7261. Particularly suitable for work on soft metals.



Special features:
- Special tooth geometry prevents the file from clogging.
- Good surfaces and labour-saving work.
- Suitable for use on aluminium, soft non-ferrous metals and plastics.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Matching handle		Item no.	Designation
1612 w	250	0	25	6	FH 4/1	10	11102250	1612 w 250 H0
	300	0	30	6.5	FH 5/1	5	11102300	1612 w 300 H0

Files for aluminium, half-round (1652 w)

Half-round file, tanged with cut on two sides. Shape E according to DIN 7261. Excellent filing performance thanks to the PFERD TOOLS spiral cut on the half-round side. Particularly suitable for work on soft metals.

Special features:
- Special tooth geometry prevents the file from clogging.
- Good surfaces and labour-saving work.
- Suitable for use on aluminium, soft non-ferrous metals and plastics.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Matching handle		Item no.	Designation
1652 w	250	0	25	7	FH 4/1	10	11106250	1652 w 250 H0
	300	0	30	8.5	FH 5/1	5	11106300	1652 w 300 H0

Deburring files

Rectangular file, tanged and cross cut on three sides, one edge uncut. The cross cut is characterized by a particularly high stock removal rate. Also well suited to work on plastics, particularly thermosetting plastics.

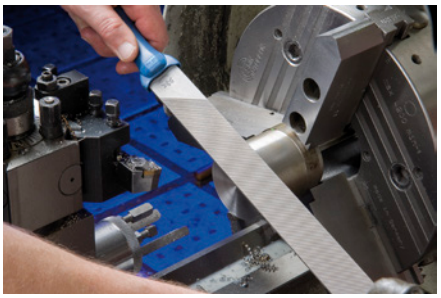
Special features:
- Exceptionally high stock removal rate.
- Versatile.
- Suitable for use on soft non-ferrous metals and plastics.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Matching handle		Item no.	Designation
1312	150	Cross cut	16	2.8	FH 3	10	*11110150*	1312 150
	200	Cross cut	20	3.5	FH 4/1	10	*11110200*	1312 200

Discontinued product

Lathe files

Rectangular file, tanged and cut on two sides, two edges uncut. Shape H according to DIN 7261. Suitable for deburring parts turned on a lathe.



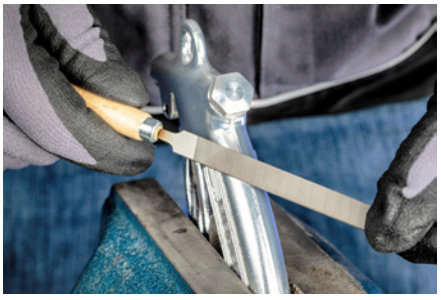
Special features:
- Opposed direction of the cut on the front and back side causes the file to move away from the chuck during lathe work. This improves safety.
- Suitable for use on aluminium, hard non-ferrous metals, plastics, steel and cast steel.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Matching handle		Item no.	Designation
1612 DE	250	Single cut	25	6	FH 4/1	10	12119253	1612 DE 250 H1
	300	Single cut	30	6.5	FH 5/1	5	12119303	1612 DE 300 H1

Key files

Hand (1117)

Small files in accordance with DIN 7283 perfectly suited to light and delicate filing tasks, especially in tool and mould-making. Rectangular file that is cut on three sides and uncut on one side. Tanged design.



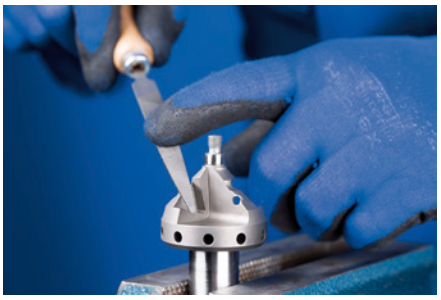
Special features:
- Versatile.
- Very handy design for the processing of delicate components.
- Suitable for use on aluminium, copper, brass, zinc, grey cast iron, steels up to 1,200 N/mm² and cast steel.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Matching handle	Incl. handle		Item no.	Designation
Industrial packaging (without handle)									
1117	100	2	10	1.4	FH 2	-	10	11502102	1117 100 H2
	150	2	16	1.8	FH 2	-	10	11502152	1117 150 H2
POS packaging (with wooden handle)									
1117	100	2	10	1.4	-	Wooden handle	1	11251102	PF 1117 100 H2

Files for the workshop
Key files

Flat (1127)

Small files in accordance with DIN 7283 perfectly suited to light and delicate filing tasks, especially in tool and mould-making. Rectangular file, tapered and cut on four sides. Tanged design.



Special features:
- Versatile.
- Very handy design for the processing of delicate components.
- Suitable for use on aluminium, copper, brass, zinc, grey cast iron, steels up to 1,200 N/mm² and cast steel.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Matching handle		Item no.	Designation
1127	100	2	10	1.4	FH 2	10	11501102	1127 100 H2
	150	2	16	1.8	FH 2	10	11501152	1127 150 H2

Three square (1137)

Small files in accordance with DIN 7283 perfectly suited to light and delicate filing tasks, especially in tool and mould-making. Triangular file, tapered and cut on three sides. Tanged design.

Special features:
- Versatile.
- Very handy design for the processing of delicate components.
- Suitable for use on aluminium, copper, brass, zinc, grey cast iron, steels up to 1,200 N/mm² and cast steel.

Profile	Length [mm]	Cut	Width [mm]	Matching handle		Item no.	Designation
1137	100	2	5	FH 2	10	11505102	1137 100 H2

Square (1147)

Small files in accordance with DIN 7283 perfectly suited to light and delicate filing tasks, especially in tool and mould-making. Square file, tapered and cut on four sides. Tanged design.

Special features:
- Versatile.
- Very handy design for the processing of delicate components.
- Suitable for use on aluminium, copper, brass, zinc, grey cast iron, steels up to 1,200 N/mm² and cast steel.

Profile	Length [mm]	Cut	Width [mm]	Matching handle	Incl. handle		Item no.	Designation
Industrial packaging (without handle)								
1147	100	2	3	FH 2	-	10	11506102	1147 100 H2
POS packaging (with wooden handle)								
1147	100	2	3	-	Wooden handle	1	11254102	PF 1147 100 H2

Half-round (1157)

Small files in accordance with DIN 7283 perfectly suited to light and delicate filing tasks, especially in tool and mould-making. Half-round file, cut on two sides. Tanged design.

Special features:
- Versatile.
- Very handy design for the processing of delicate components.
- Suitable for use on aluminium, copper, brass, zinc, grey cast iron, steels up to 1,200 N/mm² and cast steel.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Matching handle	Incl. handle		Item no.	Designation
Industrial packaging (without handle)									
1157	100	2	9	3	FH 2	-	10	11503102	1157 100 H2
POS packaging (with wooden handle)									
1157	100	2	9	3	-	Wooden handle	1	11255102	PF 1157 100 H2

Round (1167)

Small files in accordance with DIN 7283 perfectly suited to light and delicate filing tasks, especially in tool and mould-making. Round file with circumferential cut. Tanged design.

Special features:
- Versatile.
- Very handy design for the processing of delicate components.
- Suitable for use on aluminium, copper, brass, zinc, grey cast iron, steels up to 1,200 N/mm² and cast steel.

Profile	Length [mm]	Cut	Diameter [mm]	Matching handle	Incl. handle		Item no.	Designation
Industrial packaging (without handle)								
1167	100	2	3	FH 2	-	10	11504102	1167 100 H2
POS packaging (with wooden handle)								
1167	100	2	3	-	Wooden handle	1	11256102	PF 1167 100 H2

Files for the workshop
Key file sets

Key file set 265 A

Contains an application-oriented selection of key files. Ideal for fine and delicate filing.

Contents:
The set contains six key files and a quick-mounting handle. The set comprises one each of the following files: hand (1117), flat (1127), three square (1137), square (1147), half-round (1157), round (1167).

Special features:
- Suitable for a wide range of delicate and light filing tasks.
- Supplied with quick-mounting handle no. 220 in a plastic pouch to protect against dirt and damage. Handle is only available in a set and not individually.

Length [mm]		Item no.	Designation
100	1	11702100	265 A 100 H2

Key file set 265 B

Contains an application-oriented selection of key files. Ideal for fine and delicate filing.

Contents:
The set contains six key files. The set comprises one each of the following files: hand (1117), flat (1127), three square (1137), square (1147), half-round (1157) and round (1167).

Special features:
- Suitable for a wide range of delicate and light filing tasks.
- Supplied with mounted wooden handles in a plastic pouch to protect against dirt and damage. Key files are only available in a set and not individually.

Length [mm]		Item no.	Designation
100	1	11706100	265 B 100 H2

Key file set 265 K

Contains an application-oriented selection of key files. Ideal for fine and delicate filing.

Contents:
The set contains six key files. The set comprises one each of the following files: hand (1117), flat (1127), three square (1137), square (1147), half-round (1157) and round (1167).

Special features:
- Suitable for a wide range of delicate and light filing tasks.
- Supplied with mounted wooden handles in a metal box to protect against dirt and damage. Key files are only available in a set and not individually.

Length [mm]		Item no.	Designation
100	1	11700265	265 K 100 H2

Tungsten point file

Rectangular file with flat handle and cut 2 on two sides. Shape A according to DIN 7283. Very thin file, which is particularly suitable for work on contacts, narrow grooves and cut holes.

Special features:
- The punched file handle eliminates the need for an additional handle.
- Practical design.
- Suitable for use on soft non-ferrous metals, steel and cast steel.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]		Item no.	Designation
1118 A	100	2	8	1.2	10	11509150	1118 A 100 H2

Car body files
Adjustable holders for car body files

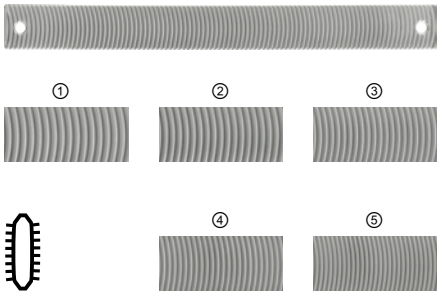
Adjustable holders for car body files

This light ergonomic holder with plastic handles without plasticizer allows individual tensioning of car body file blades to match the surface contour of the workpiece.

Special features:
- The bending radius of the file can be steplessly adjusted via the tensioning system.
- Can be used in a focused manner or over a wide area as the car body file can be used curved as well as straight.
- Enables work with low levels of fatigue thanks to vibration-damping rubber pad.

Suitable for file length [mm]		Item no.	Designation
300	1	14000167	KFH 300
350	1	14203350	KFH 350

Car body file blades



Car body file blades 299 b

The car body file blades have razor-sharp tooth edges and, thanks to the individual clamping in the car body file holder, can be adjusted to the contour of the surface to be worked. The file blades can also be used at specific points.

Special features:
- The bending radius of the file can be steplessly adjusted via the tensioning system.
- Convex shape of the file blades prevents unwanted scratches.
- Suitable for use on aluminium and steels up to 1,200 N/mm².

Image	Profile	Length [mm]	Cut	Version	Width [mm]	Height [mm]	Teeth per inch		Item no.	Designation
③	299 b	300	1	coarse	31	4.7	9	1	14101301	299 b 300 Z1
④	299 b	300	2	medium	31	4.7	10	1	14101302	299 b 300 Z2
⑤	299 b	300	3	fine	31	4.7	12	1	14101303	299 b 300 Z3
①	299 b	350	00	extra-coarse	36	5.8	7	1	14101357	299 b 350 Z00
②	299 b	350	0	very coarse	36	5.2	8	1	14101350	299 b 350 Z0
③	299 b	350	1	coarse	36	4.7	9	1	14101351	299 b 350 Z1
④	299 b	350	2	medium	36	4.7	10	1	14101352	299 b 350 Z2
⑤	299 b	350	3	fine	36	4.7	12	1	14101353	299 b 350 Z3

Car body file blades 299 e

The car body file blades with special cross cut have can be adjusted to the contour of the surface to be worked as they are clamped individually in the car body file holder. The file blades can also be used at specific points.

Special features:
- The bending radius of the file can be steplessly adjusted via the tensioning system.
- Suitable for use on aluminium and steels up to 1,200 N/mm².

Profile	Length [mm]	Cut	Version	Width [mm]	Height [mm]		Item no.	Designation
299 e	350	Special cross cut (SK)	Extra fine	36	4.7	1	14107359	299 e 350

Car body files tanged

File curved in longitudinal and transverse direction (convex), tanged. Cut on one side.

Special features:
- Convex shape of the file prevents unwanted scratches.
- Can be used in a focused manner.
- Suitable for use on aluminium and steels up to 1,200 N/mm².

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Matching handle		Item no.	Designation
299 c	350	1	34.5	7.6	FH 5/1	5	14103351	299 c 350 H1
		3	34.5	7.6	FH 5/1	5	14103353	299 c 350 H3

Milled tooth files
Paint peeler

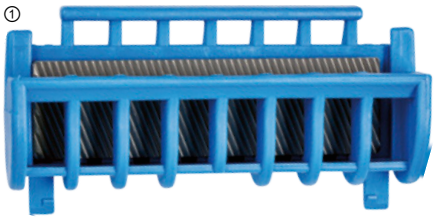
Paint peeler

Small paint peeler with file blade that can be used on both sides, for finishing of very small painted surfaces thanks to precisely adjustable plastic holder. For levelling and correction of painting faults, and for removal of extremely thin paint layers.

Special features:
- Convex shape prevents unwanted scratches.
- Precision-cut, razor-sharp teeth provide a very high-quality, score-free surface finish.
- Surfaces can be painted or processed immediately.

Length [mm]	Cut	Width [mm]	Height [mm]	Replacement file		Item no.	Designation
Paint peeler (including file)							
50	3	36	4.7	LAHF 50 Z3	1	14302001	LAH Z3
Replacement file for paint peeler							
50	3	36	4.7	-	10	14131053	LAHF 50 Z3

Universal chamfer file

① 

②

Universal chamfer file

Rectangular file in a special plastic holder, angled cut on two sides. Ideal for quick and easy deburring work.

Special features:
- The special holder enables easy tool control and exact, right-angled positioning of the chamfer file on the guide rail.
- Outstandingly well suited for sharpening ski edges and repairing guide rails on motor saws.
- Suitable for use on aluminium, grey cast iron and steels up to 1,200 N/mm².

Image	Length [mm]	Cut	Width [mm]	Height [mm]	Replacement file		Item no.	Designation
Universal chamfer file (including file blade)								
①	110	2	-	-	KF 110 Z2	1	13217110	UKF Z2
Spare file blade								
②	110	2	31	4.7	-	10	13215112	KF 110 Z2

Milled tooth files
Milled tooth files, tanged

Hand

Rectangular file with cuts on three sides. Tanged version. Angled cut with chip divider on the flat sides, straight cut on the high edge. Suitable for work on rectangular geometries.

Special features:
- Very aggressive.
- No clogging thanks to the large flutes.
- Suitable for use on aluminium, grey cast iron, steels up to 1,200 N/mm², cast steel, copper and brass.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Matching handle		Item no.	Designation
290	250	1	25	5.5	FH 4/1	10	13101251	290 250 Z1
		2	25	5.5	FH 4/1	10	13101252	290 250 Z2
	300	1	30	6	FH 5/1	5	13101301	290 300 Z1
		2	30	6	FH 5/1	5	13101302	290 300 Z2
		3	30	6	FH 5/1	5	13101303	290 300 Z3
	350	1	36	7	FH 5/1	5	13101351	290 350 Z1
		2	36	7	FH 5/1	5	13101352	290 350 Z2

Half-round, hollow

Half-round file, hollow and tapered. Tanged version. With chip divider on the half-round side, angled cut on one side. Suitable for work on radii and for filing of half-round shapes.

Special features:
- Very aggressive.
- No clogging thanks to the large flutes.
- Suitable for use on aluminium, grey cast iron, steels up to 1,200 N/mm², cast steel, copper and brass.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Matching handle		Item no.	Designation
295	250	1	23	7	FH 4/1	10	13103251	295 250 Z1
	300	1	27	9	FH 5/1	5	13103301	295 300 Z1

Brake calliper files

Brake calliper files

Hand brake calliper files for cleaning and smoothing brake callipers and contact surfaces of brake pads. The milled files are suitable for removing brake dust, rust and other dirt from brake calliper bores when maintaining and repairing disc brake systems in the field of vehicle technology.

Special features:
- Milled file with exact tooth geometry and excellent cutting performance.
- Creates clean, flat surfaces for precise positioning of the brake pads to prevent uneven wear.
- Removes even stubborn residues.

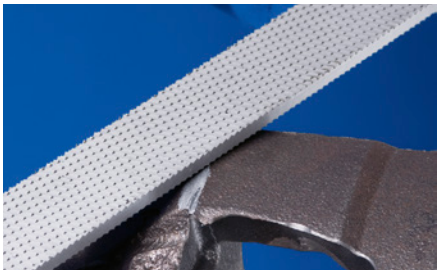
Profile	Length [mm]	Cut	Width [mm]	Height [mm]		Item no.	Designation
BSF 150	150	2	12.5	5.5	1	13280161	BSF 150-12,5 Z2
			9.8	5.5	1	13280160	BSF 150-9,8 Z2

New item

Milled tooth files
Milled tooth file blades

Hand

Rectangular file with two holes for mounting on the file holder, angled cut with chip divider on the flat sides.



Special features:
- Very aggressive.
- No clogging thanks to the large flutes.
- Suitable for use on aluminium, grey cast iron, cast steel and steels up to 1,200 N/mm².

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Suitable holders		Item no.	Designation
296	300	1	31	4.7	296a/300	5	13201301	296 300 Z1
		2	31	4.7	296a/300	5	13201302	296 300 Z2
	350	1	36	4.7	296a/350	5	13201351	296 350 Z1
		2	36	4.7	296a/350	5	13201352	296 350 Z2

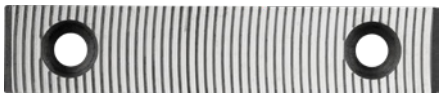
Holder for file blades

Holder for file blades

This reusable file holder gives optimum file control and optimum filing results. It can also easily be used for car body file blades. Available in two sizes for all PFERD TOOLS milled file blades.

Special features:
- Quick tool changes without special tools.
- Practical design.

Suitable for file length [mm]	Matching handle		Item no.	Designation
300	FH 5/1	1	13203300	296a/300
350	FH 5/1	1	13203350	296a/350

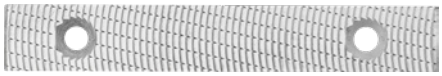


Tungsten carbide files, convex

Flat, rectangular tungsten carbide files, convex in transverse and longitudinal direction, cut on one side. For working on flat and convex surfaces. Please order tungsten carbide file holder separately.

Special features:
- High surface quality.
- The best results thanks to radial and convex cut pattern.
- Suitable for use on steel and steel materials with hardness > 54 HRC.

Length [mm]	Teeth per cm	Height [mm]	Width [mm]	Suitable holders		Item no.	Designation
50	10	10	5	HMFH 50	1	14403041	HMF 5010/1
132	6.5	20	7	HMFH 132	1	14410131	HMF 13220/1

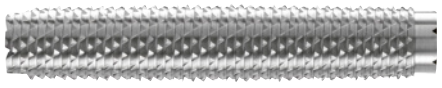


Tungsten carbide files flat with chip dividers

Flat, rectangular tungsten carbide files, convex in transverse direction, cut on two sides, one side with chip dividers. For working on flat and convex surfaces. Please order tungsten carbide file holder separately.

Special features:
- One side with chip dividers for high stock removal.
- The best results thanks to radial and convex cut pattern.
- Suitable for use on steel and steel materials with hardness > 54 HRC.

Length [mm]	Teeth per cm	Height [mm]	Width [mm]	Chip divider	Suitable holders		Item no.	Designation
50	6.5	10	5	1 side without, 1 side with	HMFH 50	1	14403042	HMF 5010/2
132	5	20	7	1 side without, 1 side with	HMFH 132	1	14410132	HMF 13220/2



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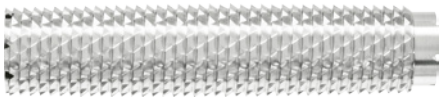

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Round tungsten carbide files

Round tungsten carbide files with circumferential cut for working on concave shapes and for reworking internal radii. Please order tungsten carbide file holder separately.

Special features:
- The unique tooth geometry ensures optimum results.
- For 360° use: Mounting in the HMFH 51 R file holder enables the files to be moved about their own axis in 60° increments.
- Suitable for use on steel and steel materials with hardness > 54 HRC.

Image	Length [mm]	Teeth per cm	Diameter [mm]	Suitable holders		Item no.	Designation
①	50	8	10	HMFH 51 R	1	14405040	HMF 1050
②	50	8	12	HMFH 51 R	1	14406040	HMF 1250

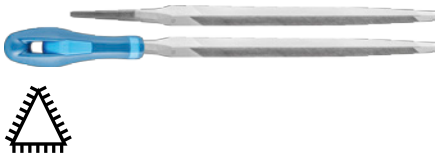
Tungsten carbide files
Holder for tungsten carbide files

Holder for tungsten carbide files

Reusable and ergonomically shaped file holder with ergonomic file handle. Please order tungsten carbide files separately.

Special features:
- Optimal file control is guaranteed.
- The best results.
- Quick tool changes.

Image	Suitable tungsten carbide files		Item no.	Designation
①	HMF 5010/2, HMF 5010/1	1	14203050	HMFH 50
②	HMF 13220/2, HMF 13220/1	1	14204132	HMFH 132
③	HMF 1050, HMF 1250	1	14203051	HMFH 51 R



Saw files, normal (1232)

Triangular file, tapered with tang for a wide range of applications. Cut on three sides and three edges.

Special features:
- Good stock removal rate.
- Long tool life.
- Suitable for use on steels up to 1,200 N/mm² and cast steel.

Profile	Length [mm]	Cut	Width [mm]	Matching handle	Incl. handle		Item no.	Designation
Industrial packaging (without handle)								
1232	150	2	12	FH 3	-	10	11401152	1232 150 H2
	250	2	18	FH 4	-	10	*11401252*	1232 250 H2
POS packaging (with ergonomic file handle)								
1232	125	2	10	-	FH 3	1	11274127	PF 1232 125 H2
	150	2	12	-	FH 3	1	*11274157*	PF 1232 150 H2

Saw files, slim (1237)

Triangular file, tapered with tang for a wide range of applications. Cut on three sides and three edges.

Special features:
- Good stock removal rate.
- Long tool life.
- Suitable for use on steels up to 1,200 N/mm² and cast steel.

Profile	Length [mm]	Cut	Width [mm]	Matching handle	Incl. handle		Item no.	Designation
Industrial packaging (without handle)								
1237	100	2	6	FH 2	-	10	11402102	1237 100 H2
	125	2	7	FH 2	-	10	*11402122*	1237 125 H2
	150	2	8.5	FH 3	-	10	11402152	1237 150 H2
	175	2	10	FH 4	-	10	11402182	1237 175 H2
	200	2	12	FH 4	-	10	11402202	1237 200 H2
POS packaging (with ergonomic file handle)								
1237	125	2	7	-	FH 2	1	11275127	PF 1237 125 H2
	150	2	8.5	-	FH 3	1	*11275157*	PF 1237 150 H2

Discontinued product

Sharpening files
Three square saw files

Saw files, extra slim (1238)

Triangular file, tapered with tang for a wide range of applications. Cut on three sides and three edges.

Special features:
- Good stock removal rate.
- Long tool life.
- Suitable for use on steels up to 1,200 N/mm² and cast steel.

Profile	Length [mm]	Cut	Width [mm]	Matching handle	Incl. handle		Item no.	Designation
Industrial packaging (without handle)								
1238	100	2	5	FH 2	-	10	*11403102*	1238 100 H2
	150	2	7	FH 2	-	10	11403152	1238 150 H2
POS packaging (with ergonomic file handle)								
1238	150	2	7	-	FH 2	1	11277157	PF 1238 150 H2

Saw files, ultra-slim (1239)

Triangular file, tapered with tang for a wide range of applications. Cut on three sides and three edges.

Special features:
- Good stock removal rate.
- Long tool life.
- Suitable for use on steels up to 1,200 N/mm² and cast steel.

Profile	Length [mm]	Cut	Width [mm]	Matching handle		Item no.	Designation
1239	125	2	4.7	FH 2	10	*11404122*	1239 125 H2
	200	2	8	FH 3	10	11404202	1239 200 H2

Fine saw file

Triangular file with knife profile, tanged. Cut on two sides and the narrow edge.

Special features:
- Good stock removal rate.
- Long tool life.
- Suitable for use on steels up to 1,200 N/mm² and cast steel.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Incl. handle		Item no.	Designation
POS packaging (with ergonomic file handle)								
340	110	2	6.5	4.8	FH 2	1	11279118	PF 340 110 H2

Cantsaw file (1230)

Triangular file, tanged. Cut on three sides, non-equilateral triangular shape.

Special features:
- Good stock removal rate.
- Long tool life.
- Suitable for use on steels up to 1,200 N/mm² and cast steel.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Matching handle		Item no.	Designation
1230	200	2	22.4	12.5	FH 4	10	11633202	1230 200 H2

Discontinued product

Sharpening files
Three square saw files

Band saw files (1231)

Triangular file, tapered with tang. Cut on three sides, round cut edges. Shape D according to DIN 7262. Suitable for sharpening saw blades.

Special features:
- Good stock removal rate.
- Long tool life.
- Suitable for use on steels up to 1,200 N/mm² and cast steel.

Profile	Length [mm]	Cut	Width [mm]	Matching handle		Item no.	Designation
1231	150	2	14.6	FH 3	10	*11621152*	1231 150 H2
	175	2	15.5	FH 4	10	*11621182*	1231 175 H2
	200	2	17	FH 4	10	*11621202*	1231 200 H2

Knife sharpening files

Knife sharpening files (1272)

Triangular file with knife profile, tanged. Cut on two sides and the narrow edge. Shape G according to DIN 7262.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Matching handle	Incl. handle		Item no.	Designation
Industrial packaging (without handle)									
1272	200	2	20	6.4 x 1.5	FH 4/1	-	10	*11604203*	1272 200 H2
	250	2	25	7.9 x 1.75	FH 4/1	-	10	*11604253*	1272 250 H2
POS packaging (with ergonomic file handle)									
1272	200	2	20	6.4 x 1.5	-	FH 4/1	1	11276208	PF 1272 200 H2

Featheredge file

Featheredge file

File with rhomboid cross section with feather edge profile, tanged. Cut on four sides.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Matching handle		Item no.	Designation
305	200	2	30	5	FH 5/1	10	11605203	305 200 H2

Discontinued product

Mill saw files (1212)

Rectangular file, tanged. With two straight edges and cut on four sides. Shape E according to DIN 7276.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Matching handle		Item no.	Designation
Industrial packaging (without handle)								
1212	200	2	20	3.5	FH 4/1	10	11607203	1212 200 H2
	250	2	25	4.5	FH 4/1	10	*11607253*	1212 250 H2
	300	2	30	5	FH 5/1	10	11607303	1212 300 H2

Mill saw files (1212 gr)

Rectangular file, tanged. With one round and one straight edge and cut on four sides. Shape E according to DIN 7276.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Matching handle	Incl. handle		Item no.	Designation
Industrial packaging (without handle) – gr									
1212 gr	150	2	16	3	FH 3	-	10	11608153	1212 gr 150 H2
	200	2	20	3.5	FH 4/1	-	10	11608203	1212 gr 200 H2
	250	2	25	4.5	FH 4/1	-	10	*11608253*	1212 gr 250 H2
	300	2	30	5	FH 5/1	-	10	*11608303*	1212 gr 300 H2
POS packaging (with ergonomic file handle) – gr									
1212 gr	200	2	20	3.5	-	FH 4/1	1	11270208	PF 1212 gr 200 H2

Mill saw files (1212 r)

Rectangular file, tanged. With two round edges and cut on four sides. Shape E according to DIN 7276.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Matching handle	Incl. handle		Item no.	Designation
Industrial packaging (without handle) – r									
1212 r	200	2	20	3.5	FH 4/1	-	10	11609203	1212 r 200 H2
	250	2	25	4.5	FH 4/1	-	10	*11609253*	1212 r 250 H2
	300	2	30	5	FH 5/1	-	10	*11609303*	1212 r 300 H2

Continued on next page

Discontinued product

Sharpening files
Mill saw files

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Matching handle	Incl. handle		Item no.	Designation
POS packaging (with ergonomic file handle) – r									
1212 r	200	2	20	3.5	-	FH 4/1	1	11271208	PF 1212 r 200 H2
	250	2	25	4.5	-	FH 4/1	1	11271258	PF 1212 r 250 H2

Mill saw files, USA type 1212 SP ("mill file")

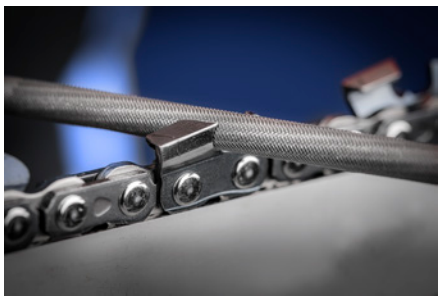
Rectangular file, tapered with tang, for sharpening, deburring and surface work. Cut on four sides. Shape E in accordance with DIN 7262.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Matching handle		Item no.	Designation
Industrial packaging (without handle) – r								
1212 SP	150	1	16	3	FH 3	10	11904151	1212 SP 150 H1
		3	16	3	FH 3	10	*11904153*	1212 SP 150 H3
	200	1	20	3.5	FH 4/1	10	11904201	1212 SP 200 H1
		2	20	3.5	FH 4/1	10	11904202	1212 SP 200 H2
		3	20	3.5	FH 4/1	10	11904203	1212 SP 200 H3
	250	1	25	4.5	FH 4/1	10	11904251	1212 SP 250 H1
		2	25	4.5	FH 4/1	10	11904252	1212 SP 250 H2
		3	25	4.5	FH 4/1	10	11904253	1212 SP 250 H3
	300	1	30	5	FH 5/1	10	11904301	1212 SP 300 H1
		2	30	5	FH 5/1	10	11904302	1212 SP 300 H2
		3	30	5	FH 5/1	10	11904303	1212 SP 300 H3

Chain saw files

Chain saw files, round, Classic Line

Round Classic Line file for fast and score-free manual sharpening of saw chains. In comparison to machine sharpening, this file removes stock sparingly without thermal loads caused by friction on the metal.



Special features:
- Optimum combination of tool life and stock removal rate.
- Aggressive filing for quick sharpening.

Profile	Length [mm]	Diameter [mm]	Diameter [inch]	Chain pitch [inch]	Matching handle		Item no.	Designation
412 200	200	3.5	9/64	1/4 LP	SH 220	6	11004153	412 200 x 3,5 Classic
		4	5/32	1/4, 3/8 LP	FH 2	6	11016203	412 200 x 4,0 Classic
		4.5	11/64	.325	FH 2	6	11017203	412 200 x 4,5 Classic
		4.8	3/16	.325	FH 2, FH 3	6	11018203	412 200 x 4,8 Classic
		5.16	13/64	3/8	FH 3	6	11020203	412 200 x 5,16 Classic
		5.5	7/32	3/8, .404	FH 3	6	11022203	412 200 x 5,5 Classic
		6.3	1/4	-	FH 3	6	11024203	412 200 x 6,3 Classic
		7	9/32	-	FH 3	6	11026203	412 200 x 7,0 Classic
		7.9	5/16	3/4	FH 3	6	11028203	412 200 x 7,9 Classic

Discontinued product

Sharpening files
Chain saw files

Chain saw files, round, Premium Line

Round Premium Line file for fast and score-free manual sharpening of saw chains. In comparison to machine sharpening, this file removes stock sparingly without thermal loads caused by friction on the metal.

Special features:
- Perfect sharpness thanks to innovative spiral cut.
- Fine tooth surfaces for maximum cutting performance and gentler filing.

Profile	Length [mm]	Diameter [mm]	Diameter [inch]	Chain pitch [inch]	Matching handle		Item no.	Designation
412 200	200	4	5/32	1/4, 3/8 LP	FH 2	6	11037203	412 200 x 4,0 Premium
		4.5	11/64	.325	FH 2	6	11038203	412 200 x 4,5 Premium
		4.8	3/16	.325	FH 2, FH 3	6	11039203	412 200 x 4,8 Premium
		5.16	13/64	3/8	FH 3	6	11040203	412 200 x 5,16 Premium
		5.5	7/32	3/8, .404	FH 3	6	11041203	412 200 x 5,5 Premium

Chain saw files in plastic pouch, pack of 3, Classic Line

Three round Classic Line files with spiral cut in promotional plastic packaging to protect against dirt and damage. The opening on the front of the packaging makes it easier to remove and return the files. A packaging unit contains four packs, each containing three files.

Special features:
- Optimum combination of tool life and stock removal rate.
- Aggressive filing for quick sharpening.

Profile	Length [mm]	Diameter [mm]	Diameter [inch]	Tang shape	Chain pitch [inch]	Matching handle		Item no.	Designation
POS packaging									
412 4x3	200	3.2	1/8	round	1/4 LP	SH 220	12	18600740	412 4x3 200 x 3,2 Classic
		4	5/32	square	1/4, 3/8 LP	FH 2	12	11071203	412 4x3 200 x 4,0 Classic
		4.5	11/64	square	.325	FH 2	12	18600763	412 4x3 200 x 4,5 Classic
		4.8	3/16	round	.325	FH 2, FH 3	12	11073203	412 4x3 200 x 4,8 Classic
		5.16	13/64	square	3/8	FH 3	12	18600758	412 4x3 200 x 5,16 Classic
		5.5	7/32	square	3/8, .404	FH 3	12	11075203	412 4x3 200 x 5,5 Classic

Chain saw files in plastic pouch, pack of 3, Premium Line

Three round Premium Line files with spiral cut in promotional plastic packaging to protect against dirt and damage. The opening on the front of the packaging makes it easier to remove and return the files. A packaging unit contains four packs, each containing three files.

Special features:
- Perfect sharpness thanks to innovative spiral cut.
- Fine tooth surfaces for maximum cutting performance and gentler filing.

Profile	Length [mm]	Diameter [mm]	Diameter [inch]	Tang shape	Chain pitch [inch]	Matching handle		Item no.	Designation
412 4x3	200	4	5/32	square	1/4 , 3/8 LP	FH 2	12	18600759	412 4x3 200 X 4,0 Premium
		4.5	11/64	square	.325	FH 2	12	18600764	412 4x3 200 X 4,5 Premium
		4.8	3/16	square	.325	FH 2, FH 3	12	18600760	412 4x3 200 X 4,8 Premium
		5.16	13/64	square	3/8	FH 3	12	18600761	412 4x3 200 x 5,16 Premium
		5.5	7/32	square	3/8 , .404	FH 3	12	18600762	412 4x3 200 x 5,5 Premium

Chain saw files in plastic pouch, pack of 2, Classic Line

Two round Classic Line files with spiral cut in promotional plastic packaging to protect against dirt and damage. One packaging unit contains twenty plastic packs, each containing two files. LP = Low Profile.

Special features:
- The overlapping opening on the rear ensures that no files can inadvertently slide out of the packaging.
- Optimum combination of tool life and stock removal rate.
- Aggressive filing for quick sharpening.

Profile	Length [mm]	Diameter [mm]	Diameter [inch]	Chain pitch [inch]	Matching handle		Item no.	Designation
POS packaging								
4122 SK	200	4	5/32	1/4 , 3/8 LP	FH 2	40	11081203	4122 SK-4,0 200 Classic
		4.8	3/16	.325	FH 2, FH 3	40	11083203	4122 SK-4,8 200 Classic
		5.16	13/64	3/8	FH 3	40	18600757	4122 SK-5,16 200 Classic
		5.5	7/32	3/8 , .404	FH 3	40	11085203	4122 SK-5,5 200 Classic

Wooden handles for chain saw files

The wooden handle for chain saw files has an angular contact surface which maintains a 35° filing angle for accurate, even sharpening of all chain saw teeth.

Special features:
- Optimized filing angle ensures precise, even filing.

Suitable for chain saw file diameter [mm]	Total length [mm]		Item no.	Designation
4.8 / 5.16 / 5.5 / 6.3 / 7.0 / 7.9	100	10	12611010	HKSF 100/10
		100	12610010	HKSF 100/100

Ergonomic file handle for chain saw files

Ergonomic file handle for chain saw files for comfortable and safe working. Soft plastic without plasticizer on the outside with a hard, stable inner part.

Special features:
- Protects hands against sharp edges and corners.
- Ergonomic shape with optimized handle.
- Files do not roll away.

Suitable for chain saw file diameter [mm]	Total length [mm]		Item no.	Designation
4.0 / 4.5 / 4.8 / 5.16 / 5.5	120	10	12617110	FH 1 KSF

Chain saw gauge

The chain saw gauge supports consistent sharpening results by providing the correct sharpening angle. It is attached to the pin of the ergonomic file handle for chain saw files. Please order the file handle separately.

Suitable for chain saw file diameter [mm]	Angle		Item no.	Designation
4.0 / 4.5 / 4.8 / 5.16 / 5.5	25°/30°	10	12600020	KSSL 25/30
	30°/35°	10	12600010	KSSL 30/35

Adjustable depth gauge

The specially developed adjustable depth gauge enables the distance between the saw tooth and depth gauge to be checked, and is the ideal aid for individually setting the depth limit of the saw chain and achieving optimum sharpening results for wood saw work.

Special features:

- Enables optimum adjustment of the depth gauge to the individual sawing conditions.

Suitable chain pitch [inch]	Adjustment range from H to S [mm]	Adjustment range from H to S [inch]	Depth gauge distance M [mm]	Depth gauge distance M [inch]	Total length [mm]		Item no.	Designation
1/4", 3/8" LP, .325", 3/8", .404"	0.5	0.020	0.65	0.025	83	1	11099224	TBL 24

Set of ergonomic file handles, chain saw gauge

Set of one ergonomic file handle for chain saw files and two chain saw gauges. The chain saw gauge is attached to the pin of the ergonomic file handle.

Contents:
The set consists of an FH 1 KSF ergonomic file handle, a KSSL 25/30 chain saw gauge (angle 25°/30°) and a KSSL 30/35 chain saw gauge (angle 30°/35°).

Special features:

- The chain saw gauge supports consistent sharpening results by providing the correct sharpening angle.
- The set is provided in sales-boosting individual packaging.

	Item no.	Designation
1	12600030	SET FH1 KSSL 25/30-30/35

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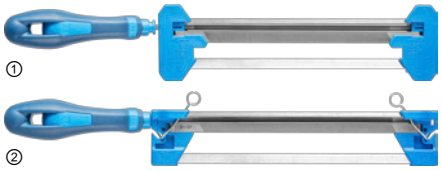
CHAIN SHARP CS-X chain saw sharpeners

The CHAIN SHARP CS-X chain saw sharpener enables the saw teeth to be sharpened and the depth gauge to be adjusted simultaneously. The optimized shape and excellent file position ensure precise guidance and optimum sharpening results.

Contents:
The chain saw sharpener consists of a sharpener, a depth gauge file and two Classic Line chain saw files.

Special features:
- Turn the device over to change from the right to the left tooth, no conversion work required.
- Improved shape makes it easy to replace the files.
- The chain saw sharpener provides a sharpening angle of 30°.

Image	Suitable for chain saw file diameter [mm]	Suitable for chain saw file diameter [inch]	Chain pitch [inch]	Depth gauge distance [mm]	Suitable depth gauge file		Item no.	Designation
POS packaging								
①	3.2	1/8	1/4 LP	0.45	4132	1	18600742	CS-X-3,2
②	4.0	5/32	3/8 LP	0.65	4132	1	11098040	CS-X-4,0
	4.8	3/16	.325	0.65	4132	1	11098048	CS-X-4,8
	5,16	13/64	3/8	0.65	4132	1	11098051	CS-X-5,16
	5.5	7/32	.404	0.75	4132	1	11098055	CS-X-5,5



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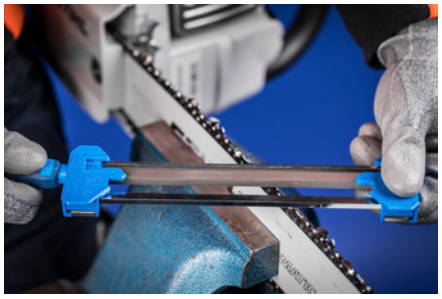
CHAIN SHARP KSSG chain saw sharpeners

You can convert the device for sharpening the right and left cutting teeth in a few steps.



Contents:
The chain saw sharpener consists of a sharpener, a Classic Line chain saw file, a depth gauge file and an FH 1 KSF ergonomic file handle.

Special features:
- Maximum precision for optimal sharpening results.
- For simultaneously sharpening the saw teeth and adjusting the depth gauge.

Image	Suitable for chain saw file diameter [mm]	Suitable for chain saw file diameter [inch]	Chain pitch [inch]	Depth gauge distance [mm]	Suitable depth gauge file		Item no.	Designation
POS packaging								
②	4.0	5/32	3/8 LP	0.65	4131	1	11099092	KSSG 91-4,0
①	4.8	3/16	.325	0.65	4130	1	11098090	KSSG 90-4,8
	5.5	7/32	.404	0.65	4130	1	11099090	KSSG 90-5,5

Sharpening files
CHAIN SHARP chain saw sharpeners

CHAIN SHARP CS-SL chain saw sharpeners

The handy and compact sharpening gauge combines a chain saw file and a gauge in one ergonomic tool. The gauge supports consistent sharpening results by providing the correct sharpening angle. PFERD TOOLS files allow a long usage period.

Contents:
The sharpening gauge comprises a Classic Line chain saw file with an ergonomic file handle and a gauge.

Special features:
- Precise and uniform sharpening result, even for semi-professional users.
- A defined chain saw file elevation makes it easier to sharpen the saw tooth and prevents damage to the connecting links of the saw chain.

Suitable for chain saw file diameter [mm]	Suitable for chain saw file diameter [inch]	Chain pitch [inch]	Depth gauge distance [mm]		Item no.	Designation
POS packaging						
4.0	5/32	3/8 LP	0.65	1	11099040	CS-SL-4,0
4.8	3/16	.325	0.65	1	11099048	CS-SL-4,8
5.16	13/64	3/8	0.65	1	11099051	CS-SL-5,16
5.5	7/32	.404	0.65	1	11099055	CS-SL-5,5

CHAIN SHARP CS-SLS chain saw sharpener set

CHAIN SHARP CS-SLS Set for maintaining saw chains and guide rails. The compact and ergonomic sharpener enables saw chains to be sharpened in a targeted way. The defined elevation of the chain saw file makes sharpening the saw teeth easier and prevents the connecting links of the saw chain from being damaged.

Contents:
The chain saw sharpener set consists of a sharpener, two Classic Line chain saw files, a depth gauge file with an ergonomic file handle and a depth gauge. The set is supplied in a belt pouch which protects against damage and dirt.

Special features:
- Depth gauge can be individually adjusted. Gauge supplied gives depth gauge distances of 0.65 mm (.025") for harder wood or 0.75 mm (.030") for softer wood.
- Long tool life and precise and uniform sharpening results with PFERD TOOLS files. Even for semi-professional users.
- The set enables saw chains and guide rails to be maintained.

	Item no.	Designation
1	11099140	SET CS-SLS-4,0
	11099148	SET CS-SLS-4,8
	11099151	SET CS-SLS-5,16
	11099155	SET CS-SLS-5,5

Depth gauge files for CHAIN SHARP CS-X

Rectangular file with cut on two sides. Suitable for the CHAIN SHARP CS-X chain saw sharpener.

Special features:
- Stock removal rate is precisely tailored to the depth gauge.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Suitable for		Item no.	Designation
4132	200	2	9	6	CS-X	10	11692202	4132 200
						1	11692203	4132 200 (1)

Depth gauge files for CHAIN SHARP KSSG

Rectangular file with cut on two sides. Available in two different cross sections. Suitable for the CHAIN SHARP KSSG chain saw sharpener.

Special features:
- Stock removal rate is precisely tailored to the depth gauge.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Suitable for		Item no.	Designation
4130	200	2	9	6	KSSG 90-4,8, KSSG 90-5,5	10	11690202	4130 200
4131	200	2	7	4.5	KSSG 91-4,0	10	11691202	4131 200

Flat chain saw files for depth gauge

Rectangular file, tanged with two round uncut edges and cut on two sides. Shape F according to DIN 7262. Flat chain saw files are used to file the depth gauges of saw chains.

Special features:
- Stock removal rate is precisely tailored to the depth gauge.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Matching handle		Item no.	Designation
1213 ruk	150	2	16	3	FH 3	10	11610153	1213 ruk 150 H2
						1	11610154	1213 ruk 150 H2 (1)
	200	2	20	3.5	FH 4/1	10	11610203	1213 ruk 200 H2
						1	11610204	1213 ruk 200 H2 (1)

Chisel bit files, hand

For repairing and sharpening saw chains with angular tooth base. For edge grinding saw chains. Can be used for sharpening the cutting edge and for lowering the depth gauge.

Special features:
- Highly recommended for beginners.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Matching handle		Item no.	Designation
1215	175	2	12.4	3.3	FH 3	1	18801226	1215 FLST 175 (1)

Sharpening files
Depth gauge files

Chisel bit files, three square

For repairing and sharpening saw chains with angular tooth base. For edge grinding saw chains.

Special features:
- Particularly suitable for sharpening 3/8" chains.

Profile	Length [mm]	Cut	Height [mm]	Matching handle		Item no.	Designation
1250	175	2	4.6	FH 3	1	18801225	1250 DKT 175 (1)

Half-round files for wood

Half-round file with special file cut on two sides. Shape C in accordance with DIN 7263. Tanged design. Particularly suitable for cutting wood.

Special features:
- High stock removal rate.
- Good chip removal.
- Suitable for use on wood and plastics.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Matching handle		Item no.	Designation
1159	200	2	20	6	FH 4/1	10	11106202	1159 200 H2
	250	2	25	7	FH 4/1	10	11106252	1159 250 H2

Wood rasps

Hand wood rasps

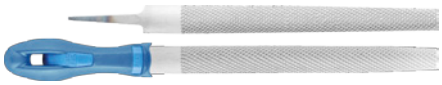
Rectangular file with cut on three sides, flat sides with rasp cut, one edge with file cut, one edge uncut. Shape A in accordance with DIN 7263. Tanged design. Particularly suitable for coarse cutting of wood.

Special features:
- High stock removal rate.
- Good chip removal.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Matching handle	Incl. handle		Item no.	Designation
Industrial packaging (without handle)									
1512	250	1	25	7.5	FH 4/1	-	10	11306251	1512 250 H1
		2	25	7.5	FH 4/1	-	10	*11306252*	1512 250 H2
POS packaging (with ergonomic file handle)									
1512	200	2	20	6.5	-	FH 4/1	1	11231207	PF 1512 200 H2
	250	2	25	7.5	-	FH 4/1	1	11231257	PF 1512 250 H2

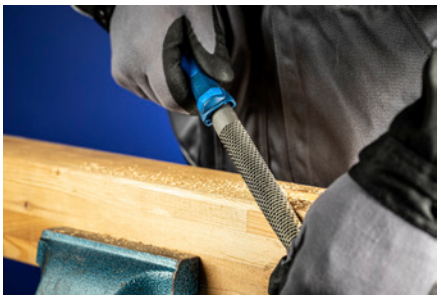
Discontinued product

Files and rasps for wood
Wood rasps



Half-round wood rasps

Half-round file, tapered with rasp cut on two sides. Shape C in accordance with DIN 7263. Tanged design. Particularly suitable for coarse cutting of wood.



Special features:
- High stock removal rate.
- Good chip removal.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Matching handle	Incl. handle		Item no.	Designation
Industrial packaging (without handle)									
1552	200	1	21	7.5	FH 4/1	-	10	*11307201*	1552 200 H1
		2	21	7.5	FH 4/1	-	10	11307202	1552 200 H2
	250	1	25	8.5	FH 4/1	-	10	11307251	1552 250 H1
		2	25	8.5	FH 4/1	-	10	11307252	1552 250 H2
	300	1	30	10	FH 5/1	-	5	11307301	1552 300 H1
		2	30	10	FH 5/1	-	5	11307302	1552 300 H2
POS packaging (with ergonomic file handle)									
1552	150	2	16	6	-	FH 3	1	11233157	PF 1552 150 H2
	200	1	21	7.5	-	FH 4/1	1	11233206	PF 1552 200 H1
		2	21	7.5	-	FH 4/1	1	11233207	PF 1552 200 H2
	250	2	25	8.5	-	FH 4/1	1	11233257	PF 1552 250 H2

Round wood rasps (1562)

Round file, tapered with circumferential rasp cut. Shape E according to DIN 7263. Tanged version. Suitable for work on radii and for filing profiles with inner radii.

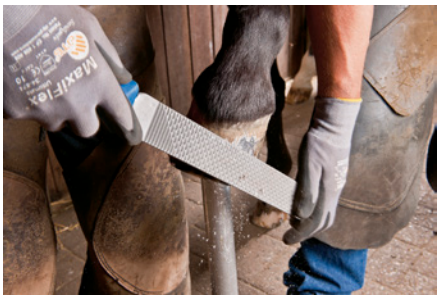
Special features:
- High stock removal rate.
- Good chip removal.

Profile	Length [mm]	Cut	Diameter [mm]	Matching handle	Incl. handle		Item no.	Designation
Industrial packaging (without handle)								
1562	200	2	9.5	FH 4	-	10	11308202	1562 200 H2
	250	2	11.5	FH 4	-	10	11308252	1562 250 H2
POS packaging (with ergonomic file handle)								
1562	200	2	9.5	-	FH 4	1	11234207	PF 1562 200 H2
	250	2	11.5	-	FH 4	1	11234257	PF 1562 250 H2

Discontinued product

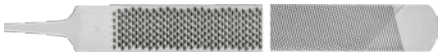
Hoof plane

Rectangular file, tanged and cut on four sides. One side fine, one side coarse. Suitable for straightening of the hoof surface, finishing the hoof wall, filing the toes and for work on the hoof nails after undercutting, conserving energy and easing back strain.



Special features:
- Long tool life.
- Very good surface quality.
- Comfortable filing for worker and animal alike.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Matching handle		Item no.	Designation
3515	350	milled	44	6	FH 6/1	1	13180350	3515 350



Hoof rasp

Rectangular file, tanged and cut on four sides, one flat side with a rasp cut, one flat side with a cross cut, two edges with a file cut. Shape B according to DIN 7263.

Special features:
- Very robust tool.

Profile	Length [mm]	Cut	Width [mm]	Height [mm]	Matching handle		Item no.	Designation
3510	350	Rasp/filing cut 1	40	6	FH 6/1	5	11313351	3510 350 H1

Special rasps

Sculptor's file rasp

Half-round file rasp with two curved ends, each with different cuts (file cut and rasp cut). They are used for the processing of carved woodwork, plastics, relief ornaments, casting patterns and areas which are hard to reach.

Special features:
- Suitable for use on wood, soft stone, plastics and horn.

Profile	Length [mm]	Cut		Item no.	Designation
3553	200	2	5	*11316202*	3553 200 H2

Discontinued product

Files and rasps for wood
Special rasps

Staircase maker's file rasp

File rasp with two half-round, curved ends with rasp cut on the outer radius and file cut on the inner radius. They are used for the processing of carved woodwork, plastics, relief ornaments, casting patterns and areas which are hard to reach.

Special features:
- Suitable for use on wood, soft stone, plastics and horn.

Profile	Length [mm]	Cut		Item no.	Designation
3554	250	2	5	11303252	3554 250 H2

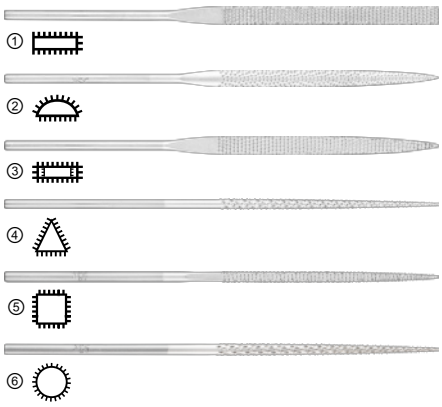
Staircase maker's rasp

Half-round, curved file body with rasp cut on the half-round side. Strongly curved, half-round profile allows you to work on various radii. Suitable for reworking handrails, embellishments, carved woodwork, plastics and casting patterns.

Special features:
- Suitable for use on wood, soft stone, plastics and horn.

Profile	Length [mm]	Cut		Item no.	Designation
3556	250	2	2	*11302252*	3556 250 H2

Needle rasps



Needle rasps

Needle rasps are excellent for working on hard-to-reach areas, e.g. ornaments, casting patterns, carved woodwork and sculptures.

Special features:
- Can be used with or without a file handle thanks to the forged shanks.
- Suitable for use on wood, soft stone, plastics and horn.

Image	Profile	Length [mm]	Swiss cut	Tang ø [mm]		Item no.	Designation
①	2501	140	2	3	12	12551142	2501 140 H2
②	2502	140	2	3	12	12552142	2502 140 H2
③	2506	140	2	3	12	12556142	2506 140 H2
④	2507	140	2	3	12	12557142	2507 140 H2
⑤	2508	140	2	3	12	12558142	2508 140 H2
⑥	2510	140	2	3	12	12559142	2510 140 H2

Discontinued product

Needle rasp set

Contains an application-oriented selection of needle rasps for work in hard-to-reach areas.

Contents:
The set contains six needle rasps. The set consists of one each of flat, hand, three square, square and half-round files.

Special features:
- Can be used with or without a file handle thanks to the forged shanks.
- Supplied in a clearly structured plastic pouch to protect against dirt and damage.
- Suitable for use on wood, soft stone, plastics and horn.

Profile	Length [mm]	Swiss cut	Contents [Piece]		Item no.	Designation
2527	140	2	6	1	12799020	2527 140 H2

Precision files
Tang files

Pottance files, hand

Small and handy hand pottance files, cut on three sides, for use on delicate steel components up to 1,200 N/mm². For all precision files, the cross section is measured at the uncut part of the file.

Special features:
- Meet the highest demands when it comes to geometric accuracy, cutting performance and tool life.
- More exact in their geometry compared to machinist's files.
- Also suitable for assembling tasks and building complex devices and machines to the highest precision standards.

Profile	Length [mm]	Swiss cut	Width [mm]	Height [mm]	Matching handle		Item no.	Designation
800	100	0	13	3	FH 2	12	*19300102*	800 100 H0
		1	13	3	FH 2	12	19300103	800 100 H1
		2	13	3	FH 2	12	19300104	800 100 H2
		3	13	3	FH 2	12	19300105	800 100 H3
		4	13	3	FH 2	12	19300106	800 100 H4
	150	00	18	4	FH 3	12	*19300151*	800 150 H00
		0	18	4	FH 3	12	19300152	800 150 H0
		1	18	4	FH 3	12	19300153	800 150 H1
		2	18	4	FH 3	12	19300154	800 150 H2
		3	18	4	FH 3	12	19300155	800 150 H3
		4	18	4	FH 3	12	19300156	800 150 H4
	200	00	22	5	FH 4/1	12	19300201	800 200 H00
		0	22	5	FH 4/1	12	19300202	800 200 H0
		1	22	5	FH 4/1	12	19300203	800 200 H1
		2	22	5	FH 4/1	12	19300204	800 200 H2
		3	22	5	FH 4/1	12	19300205	800 200 H3
		4	22	5	FH 4/1	12	19300206	800 200 H4

Pillar files, regular

Small and handy pillar files, cut on two sides, for use on delicate steel components up to 1,200 N/mm². For all precision files, the cross section is measured at the uncut part of the file.

Special features:
- Meet the highest demands when it comes to geometric accuracy, cutting performance and tool life.
- More exact in their geometry compared to machinist's files.
- Also suitable for assembling tasks and building complex devices and machines to the highest precision standards.

Profile	Length [mm]	Swiss cut	Width [mm]	Height [mm]	Matching handle		Item no.	Designation
810	150	00	13	4	FH 3	12	19302151	810 150 H00
		0	13	4	FH 3	12	19302152	810 150 H0
		2	13	4	FH 3	12	19302154	810 150 H2
	200	00	15	5	FH 4/1	12	*19302201*	810 200 H00
		0	15	5	FH 4/1	12	19302202	810 200 H0
		2	15	5	FH 4/1	12	19302204	810 200 H2
	250	00	18	6	FH 4/1	12	19302251	810 250 H00
		0	18	6	FH 4/1	12	19302252	810 250 H0
		2	18	6	FH 4/1	12	19302254	810 250 H2

Discontinued product

Pillar files, slim

Small and handy slim pillar files, cut on two sides, for use on delicate steel components up to 1,200 N/mm². For all precision files, the cross section is measured at the uncut part of the file.

Special features:
- Meet the highest demands when it comes to geometric accuracy, cutting performance and tool life.
- More exact in their geometry compared to machinist's files.
- Also suitable for assembling tasks and building complex devices and machines to the highest precision standards.

Profile	Length [mm]	Swiss cut	Width [mm]	Height [mm]	Matching handle	📦	Item no.	Designation
815	150	00	8	3.5	FH 2	12	19303151	815 150 H00
		0	8	3.5	FH 2	12	19303152	815 150 H0
		2	8	3.5	FH 2	12	19303154	815 150 H2
	200	00	10	4.5	FH 3	12	*19303201*	815 200 H00
		0	10	4.5	FH 3	12	19303202	815 200 H0
		2	10	4.5	FH 3	12	19303204	815 200 H2
	250	0	12	5	FH 3	12	19303252	815 250 H0
		2	12	5	FH 3	12	19303254	815 250 H2

Pillar files, extra slim

Small and handy very slim pillar files, cut on two sides, for use on delicate steel components up to 1,200 N/mm². For all precision files, the cross section is measured at the uncut part of the file.

Special features:
- Meet the highest demands when it comes to geometric accuracy, cutting performance and tool life.
- More exact in their geometry compared to machinist's files.
- Also suitable for assembling tasks and building complex devices and machines to the highest precision standards.

Profile	Length [mm]	Swiss cut	Width [mm]	Height [mm]	Matching handle	📦	Item no.	Designation
820	150	00	6	3	FH 2	12	*19304151*	820 150 H00
		0	6	3	FH 2	12	*19304152*	820 150 H0
		2	6	3	FH 2	12	19304154	820 150 H2
	200	00	8	3.5	FH 2	12	19304201	820 200 H00
		0	8	3.5	FH 2	12	19304202	820 200 H0
		2	8	3.5	FH 2	12	19304204	820 200 H2

Flat, thin

Small and handy rectangular files, tapered and cut on three sides, for use on delicate steel components up to 1,200 N/mm². For all precision files, the cross section is measured at the uncut part of the file.

Special features:
- Meet the highest demands when it comes to geometric accuracy, cutting performance and tool life.
- More exact in their geometry compared to machinist's files.
- Also suitable for assembling tasks and building complex devices and machines to the highest precision standards.

Profile	Length [mm]	Swiss cut	Width [mm]	Height [mm]	Matching handle	📦	Item no.	Designation
830	150	0	16	2	FH 3	12	19306152	830 150 H0
		2	16	2	FH 3	12	19306154	830 150 H2

Discontinued product

Half-round

Small and handy half-round files, cut on two sides, for use on delicate steel components up to 1,200 N/mm². For all precision files, the cross section is measured at the uncut part of the file.

Special features:
- Meet the highest demands when it comes to geometric accuracy, cutting performance and tool life.
- More exact in their geometry compared to machinist's files.
- Also suitable for assembling tasks and building complex devices and machines to the highest precision standards.

Profile	Length [mm]	Swiss cut	Width [mm]	Height [mm]	Matching handle		Item no.	Designation
835	100	00	12	3.5	FH 2	12	19307101	835 100 H00
		0	12	3.5	FH 2	12	19307102	835 100 H0
		1	12	3.5	FH 2	12	19307103	835 100 H1
		2	12	3.5	FH 2	12	19307104	835 100 H2
		4	12	3.5	FH 2	12	19307106	835 100 H4
	150	00	16	4.5	FH 3	12	19307151	835 150 H00
		0	16	4.5	FH 3	12	19307152	835 150 H0
		1	16	4.5	FH 3	12	19307153	835 150 H1
		2	16	4.5	FH 3	12	19307154	835 150 H2
		3	16	4.5	FH 3	12	19307155	835 150 H3
		4	16	4.5	FH 3	12	19307156	835 150 H4
	200	00	21	6	FH 4/1	12	19307201	835 200 H00
		0	21	6	FH 4/1	12	19307202	835 200 H0
		1	21	6	FH 4/1	12	19307203	835 200 H1
		2	21	6	FH 4/1	12	19307204	835 200 H2
		3	21	6	FH 4/1	12	19307205	835 200 H3
	250	00	25	7	FH 4/1	12	19307251	835 250 H00
		0	25	7	FH 4/1	12	19307252	835 250 H0
		1	25	7	FH 4/1	12	19307253	835 250 H1

Half-round, slim

Small and handy slim, half-round, tapered files, cut on two sides, for use on delicate steel components up to 1,200 N/mm². For all precision files, the cross section is measured at the uncut part of the file.

Special features:
- Meet the highest demands when it comes to geometric accuracy, cutting performance and tool life.
- More exact in their geometry compared to machinist's files.
- Also suitable for assembling tasks and building complex devices and machines to the highest precision standards.

Profile	Length [mm]	Swiss cut	Width [mm]	Height [mm]	Matching handle		Item no.	Designation
840	150	00	12	3.5	FH 3	12	19308151	840 150 H00
		0	12	3.5	FH 3	12	19308152	840 150 H0
		1	12	3.5	FH 3	12	19308153	840 150 H1
		2	12	3.5	FH 3	12	19308154	840 150 H2

Round

Small and handy round, tapered files with circumferential cut for use on delicate steel components up to 1,200 N/mm². For all precision files, the cross section is measured at the uncut part of the file.

Special features:
- Meet the highest demands when it comes to geometric accuracy, cutting performance and tool life.
- More exact in their geometry compared to machinist's files.
- Also suitable for assembling tasks and building complex devices and machines to the highest precision standards.

Profile	Length [mm]	Swiss cut	Diameter [mm]	Matching handle		Item no.	Designation
845	100	2	4	FH 2	12	19309104	845 100 H2
	150	0	6	FH 3	12	19309152	845 150 H0
		1	6	FH 3	12	*19309153*	845 150 H1
		2	6	FH 3	12	19309154	845 150 H2
	200	1	8	FH 4	12	19309203	845 200 H1
		2	8	FH 4	12	19309204	845 200 H2

Three square

Small and handy triangular files, tapered and cut on three sides, for use on delicate steel components up to 1,200 N/mm². For all precision files, the cross section is measured at the uncut part of the file.

Special features:
- Meet the highest demands when it comes to geometric accuracy, cutting performance and tool life.
- More exact in their geometry compared to machinist's files.
- Also suitable for assembling tasks and building complex devices and machines to the highest precision standards.

Profile	Length [mm]	Swiss cut	Width [mm]	Matching handle		Item no.	Designation
855	100	1	6	FH 2	12	*19311103*	855 100 H1
		2	6	FH 2	12	*19311104*	855 100 H2
	150	0	9	FH 3	12	19311152	855 150 H0
		1	9	FH 3	12	19311153	855 150 H1
		2	9	FH 3	12	19311154	855 150 H2
	200	0	13	FH 4	12	19311202	855 200 H0
		1	13	FH 4	12	*19311203*	855 200 H1
		2	13	FH 4	12	*19311204*	855 200 H2

Square

Small and handy square files, tapered and cut on four sides, for use on delicate steel components up to 1,200 N/mm². For all precision files, the cross section is measured at the uncut part of the file.

Special features:
- Meet the highest demands when it comes to geometric accuracy, cutting performance and tool life.
- More exact in their geometry compared to machinist's files.
- Also suitable for assembling tasks and building complex devices and machines to the highest precision standards.

Profile	Length [mm]	Swiss cut	Width [mm]	Matching handle		Item no.	Designation
860	150	0	5	FH 3	12	19312152	860 150 H0
		2	5	FH 3	12	*19312154*	860 150 H2

Discontinued product

Precision files
Tang files

Crossing oval

Small and handy tapered crossing oval files for use on delicate steel components up to 1,200 N/mm². For all precision files, the cross section is measured at the uncut part of the file.

Special features:
- Meet the highest demands when it comes to geometric accuracy, cutting performance and tool life.
- More exact in their geometry compared to machinist's files.
- Also suitable for assembling tasks and building complex devices and machines to the highest precision standards.

Profile	Length [mm]	Swiss cut	Width [mm]	Height [mm]	Matching handle		Item no.	Designation
865	150	2	16	4.5	FH 3	12	19313154	865 150 H2

Knives

Small and handy triangular, tapered files with knife profile, cut on two sides, for use on delicate steel components up to 1,200 N/mm². For all precision files, the cross section is measured at the uncut part of the file.

Special features:
- Meet the highest demands when it comes to geometric accuracy, cutting performance and tool life.
- More exact in their geometry compared to machinist's files.
- Also suitable for assembling tasks and building complex devices and machines to the highest precision standards.

Profile	Length [mm]	Swiss cut	Width [mm]	Height [mm]	Matching handle		Item no.	Designation
870	150	0	18	4	FH 3	12	19314152	870 150 H0
		2	18	4	FH 3	12	19314154	870 150 H2
	200	0	22	5	FH 4/1	12	19314202	870 200 H0
		2	22	5	FH 4/1	12	19314204	870 200 H2

Barrette

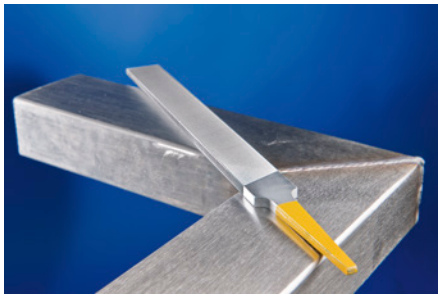
Small and handy tapered barette files, cut on one side, for use on delicate steel components up to 1,200 N/mm². For all precision files, the cross section is measured at the uncut part of the file.

Special features:
- Meet the highest demands when it comes to geometric accuracy, cutting performance and tool life.
- More exact in their geometry compared to machinist's files.
- Also suitable for assembling tasks and building complex devices and machines to the highest precision standards.

Profile	Length [mm]	Swiss cut	Width [mm]	Height [mm]	Matching handle		Item no.	Designation
875	150	0	16	4	FH 3	12	19315152	875 150 H0
		2	16	4	FH 3	12	19315154	875 150 H2
	200	0	21	5	FH 4/1	12	19315202	875 200 H0
		2	21	5	FH 4/1	12	19315204	875 200 H2

Pottance files, hand

Hand pottance files, cut on three sides. The extremely wear-resistant and sturdy CORINOX files have an exceptional surface hardness grade of 1,200 HV (Vickers scale).



Special features:
- Can also be used on materials that are difficult to machine, such as stainless steel (INOX), high-temperature-resistant materials, hard non-ferrous metals and fibre-reinforced thermosetting plastics (GRP, CRP).
- Lower tendency to cause chip adhesion.

Profile	Length [mm]	Swiss cut	Width [mm]	Height [mm]	Matching handle		Item no.	Designation
COR 800	150	00	18	4	FH 3	12	19600151	COR 800 150 H00
		0	18	4	FH 3	12	19600152	COR 800 150 H0
	200	00	22	5	FH 4/1	12	19600201	COR 800 200 H00
		0	22	5	FH 4/1	12	19600202	COR 800 200 H0
		2	22	5	FH 4/1	12	19600204	COR 800 200 H2
	250	00	25	6	FH 4/1	12	19600251	COR 800 250 H00
		0	25	6	FH 4/1	12	19600252	COR 800 250 H0
		2	25	6	FH 4/1	12	19600254	COR 800 250 H2

Pillar files, regular

Pillar files, cut on two sides. The extremely wear-resistant and sturdy CORINOX files have an exceptional surface hardness grade of 1,200 HV (Vickers scale).

Special features:
- Can also be used on materials that are difficult to machine, such as stainless steel (INOX), high-temperature-resistant materials, hard non-ferrous metals and fibre-reinforced thermosetting plastics (GRP, CRP).
- Lower tendency to cause chip adhesion.

Profile	Length [mm]	Swiss cut	Width [mm]	Height [mm]	Matching handle		Item no.	Designation
COR 810	150	00	13	4	FH 3	12	19602151	COR 810 150 H00
		0	13	4	FH 3	12	19602152	COR 810 150 H0
	200	00	15	5	FH 4/1	12	19602201	COR 810 200 H00
		0	15	5	FH 4/1	12	19602202	COR 810 200 H0
		2	15	5	FH 4/1	12	19602204	COR 810 200 H2

Tang files, half-round

Half-round, tapered tang files, cut on two sides. The extremely wear-resistant and sturdy CORINOX files have an exceptional surface hardness grade of 1,200 HV (Vickers scale).

Special features:
- Can also be used on materials that are difficult to machine, such as stainless steel (INOX), high-temperature-resistant materials, hard non-ferrous metals and fibre-reinforced thermosetting plastics (GRP, CRP).
- Lower tendency to cause chip adhesion.

Profile	Length [mm]	Swiss cut	Width [mm]	Height [mm]	Matching handle		Item no.	Designation
COR 835	150	0	16	4.5	FH 3	12	19607152	COR 835 150 H0
	200	0	21	6	FH 4/1	12	19607202	COR 835 200 H0
		2	21	6	FH 4/1	12	19607204	COR 835 200 H2

Round

Round, tapered files with circumferential cut. The extremely wear-resistant and sturdy CORINOX files have an exceptional surface hardness grade of 1,200 HV (Vickers scale).

Special features:
- Can also be used on materials that are difficult to machine, such as stainless steel (INOX), high-temperature-resistant materials, hard non-ferrous metals and fibre-reinforced thermosetting plastics (GRP, CRP).
- Lower tendency to cause chip adhesion.

Profile	Length [mm]	Swiss cut	Diameter [mm]	Matching handle		Item no.	Designation
COR 845	200	0	8	FH 4	12	19609202	COR 845 200 H0
		2	8	FH 4	12	19609204	COR 845 200 H2

Three square

Triangular files, tapered and cut on three sides. The extremely wear-resistant and sturdy CORINOX files have an exceptional surface hardness grade of 1,200 HV (Vickers scale).

Special features:
- Can also be used on materials that are difficult to machine, such as stainless steel (INOX), high-temperature-resistant materials, hard non-ferrous metals and fibre-reinforced thermosetting plastics (GRP, CRP).
- Lower tendency to cause chip adhesion.

Profile	Length [mm]	Swiss cut	Width [mm]	Matching handle		Item no.	Designation
COR 855	200	0	13	FH 4	12	19611202	COR 855 200 H0
		2	13	FH 4	12	19611204	COR 855 200 H2

Square

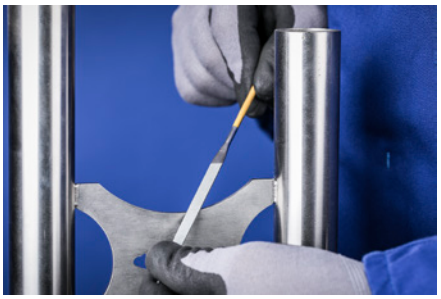
Square files, tapered and cut on four sides. The extremely wear-resistant and sturdy CORINOX files have an exceptional surface hardness grade of 1,200 HV (Vickers scale).

Special features:
- Can also be used on materials that are difficult to machine, such as stainless steel (INOX), high-temperature-resistant materials, hard non-ferrous metals and fibre-reinforced thermosetting plastics (GRP, CRP).
- Lower tendency to cause chip adhesion.

Profile	Length [mm]	Swiss cut	Width [mm]	Matching handle		Item no.	Designation
COR 860	150	0	5	FH 3	12	19612152	COR 860 150 H0
		2	5	FH 3	12	19612154	COR 860 150 H2

Flat

Rectangular files, tapered and cut on four sides. The extremely wear-resistant and sturdy CORINOX needle files have an exceptional surface hardness grade of 1,200 HV (Vickers scale) and can be used to file very small and delicate components with precision.



Special features:
- Can also be used on materials that are difficult to machine, such as stainless steel (INOX), high-temperature-resistant materials, hard non-ferrous metals and fibre-reinforced thermosetting plastics (GRP, CRP).
- Lower tendency to cause chip adhesion.

Profile	Length [mm]	Swiss cut	Tang ø [mm]	Width [mm]	Height [mm]		Item no.	Designation
COR 2306	180	0	3.5	6	1.5	12	12471182	COR 2306 180 H0
		2	3.5	6	1.5	12	12471184	COR 2306 180 H2

Hand

Hand files, cut on three sides. The extremely wear-resistant and sturdy CORINOX needle files have an exceptional surface hardness grade of 1,200 HV (Vickers scale) and can be used to file very small and delicate components with precision.

Special features:
- Can also be used on materials that are difficult to machine, such as stainless steel (INOX), high-temperature-resistant materials, hard non-ferrous metals and fibre-reinforced thermosetting plastics (GRP, CRP).
- Lower tendency to cause chip adhesion.

Profile	Length [mm]	Swiss cut	Tang ø [mm]	Width [mm]	Height [mm]		Item no.	Designation
COR 2301	180	0	3.5	6	1.5	12	12472182	COR 2301 180 H0
		2	3.5	6	1.5	12	12472184	COR 2301 180 H2

Three square

Triangular files, tapered and cut on three sides. The extremely wear-resistant and sturdy CORINOX needle files have an exceptional surface hardness grade of 1,200 HV (Vickers scale) and can be used to file very small and delicate components with precision.

Special features:
- Can also be used on materials that are difficult to machine, such as stainless steel (INOX), high-temperature-resistant materials, hard non-ferrous metals and fibre-reinforced thermosetting plastics (GRP, CRP).
- Lower tendency to cause chip adhesion.

Profile	Length [mm]	Swiss cut	Tang ø [mm]	Diameter [mm]		Item no.	Designation
COR 2307	180	0	3.5	4.1	12	12474182	COR 2307 180 H0
		2	3.5	4.1	12	12474184	COR 2307 180 H2

Precision files
CORINOX needle files

Square

Square files, tapered and cut on four sides. The extremely wear-resistant and sturdy CORINOX needle files have an exceptional surface hardness grade of 1,200 HV (Vickers scale) and can be used to file very small and delicate components with precision.

Special features:
- Can also be used on materials that are difficult to machine, such as stainless steel (INOX), high-temperature-resistant materials, hard non-ferrous metals and fibre-reinforced thermosetting plastics (GRP, CRP).
- Lower tendency to cause chip adhesion.

Profile	Length [mm]	Swiss cut	Tang ø [mm]	Diameter [mm]		Item no.	Designation
COR 2308	180	0	3.5	2.7	12	12475182	COR 2308 180 H0
		2	3.5	2.7	12	12475184	COR 2308 180 H2

Round

Round, tapered files with circumferential cut. The extremely wear-resistant and sturdy CORINOX needle files have an exceptional surface hardness grade of 1,200 HV (Vickers scale) and can be used to file very small and delicate components with precision.

Special features:
- Can also be used on materials that are difficult to machine, such as stainless steel (INOX), high-temperature-resistant materials, hard non-ferrous metals and fibre-reinforced thermosetting plastics (GRP, CRP).
- Lower tendency to cause chip adhesion.

Profile	Length [mm]	Swiss cut	Tang ø [mm]	Diameter [mm]		Item no.	Designation
COR 2310	180	0	3.5	3.5	12	12476182	COR 2310 180 H0
		2	3.5	3.5	12	12476184	COR 2310 180 H2

Half-round

Half-round, tapered files, cut on two sides. The extremely wear-resistant and sturdy CORINOX needle files have an exceptional surface hardness grade of 1,200 HV (Vickers scale) and can be used to file very small and delicate components with precision.

Special features:
- Can also be used on materials that are difficult to machine, such as stainless steel (INOX), high-temperature-resistant materials, hard non-ferrous metals and fibre-reinforced thermosetting plastics (GRP, CRP).
- Lower tendency to cause chip adhesion.

Profile	Length [mm]	Swiss cut	Tang ø [mm]	Width [mm]	Height [mm]		Item no.	Designation
COR 2302	180	0	3.5	6	2	12	12478182	COR 2302 180 H0
		2	3.5	6	2	12	12478184	COR 2302 180 H2

Flat

The rectangular, tapered files, cut on four sides, are ideal for working on very small surfaces, cut-outs, geometries, profiles and radii.

Special features:
- Can be used with or without a needle file handle thanks to the forged tang.
- Suitable for use on steels up to 1,200 N/mm².

Profile	Length [mm]	Swiss cut	Tang ø [mm]	Width [mm]	Height [mm]		Item no.	Designation
Flat								
2406	140	0	3	5.1	1.3	12	12505061	2406 140 H0
		1	3	5.1	1.3	12	12505062	2406 140 H1
		2	3	5.1	1.3	12	12505063	2406 140 H2
	160	0	3.25	5.5	1.4	12	12505081	2406 160 H0
		1	3.25	5.5	1.4	12	12505082	2406 160 H1
		2	3.25	5.5	1.4	12	12505083	2406 160 H2
		3	3.25	5.5	1.4	12	12505084	2406 160 H3
	180	00	3.5	6	1.5	12	12505091	2406 180 H00
		0	3.5	6	1.5	12	12505092	2406 180 H0
		2	3.5	6	1.5	12	12505094	2406 180 H2

Hand

The rectangular files, cut on four sides, are ideal for working on very small surfaces, cut-outs, geometries, profiles and radii.

Special features:
- Can be used with or without a needle file handle thanks to the forged tang.
- Suitable for use on steels up to 1,200 N/mm².

Profile	Length [mm]	Swiss cut	Tang ø [mm]	Width [mm]	Height [mm]		Item no.	Designation
Hand								
2401	140	0	3	5.1	1.3	12	12501061	2401 140 H0
		1	3	5.1	1.3	12	12501062	2401 140 H1
		2	3	5.1	1.3	12	12501063	2401 140 H2
		3	3	5.1	1.3	12	12501064	2401 140 H3
	160	0	3.25	5.5	1.4	12	12501081	2401 160 H0
		1	3.25	5.5	1.4	12	12501082	2401 160 H1
		2	3.25	5.5	1.4	12	12501083	2401 160 H2
		3	3.25	5.5	1.4	12	12501084	2401 160 H3
	180	00	3.5	6	1.5	12	12501091	2401 180 H00
		0	3.5	6	1.5	12	12501092	2401 180 H0
		1	3.5	6	1.5	12	12501093	2401 180 H1
		2	3.5	6	1.5	12	12501094	2401 180 H2
	200	00	3.75	6.4	1.6	12	12501101	2401 200 H00
		0	3.75	6.4	1.6	12	12501102	2401 200 H0
		1	3.75	6.4	1.6	12	12501103	2401 200 H1
		2	3.75	6.4	1.6	12	12501104	2401 200 H2

Precision files
Needle files

Crossing oval

The tapered crossing oval files, cut on two sides, are ideal for working on very small surfaces, cut-outs, geometries, profiles and radii.

Special features:
- Can be used with or without a needle file handle thanks to the forged tang.
- Suitable for use on steels up to 1,200 N/mm².

Profile	Length [mm]	Swiss cut	Tang ø [mm]	Width [mm]	Height [mm]		Item no.	Designation
Crossing oval								
2403	140	0	3	4.5	1.8	12	*12504061*	2403 140 H0
		1	3	4.5	1.8	12	12504062	2403 140 H1
		2	3	4.5	1.8	12	12504063	2403 140 H2
	160	0	3.25	5.2	2.3	12	*12504081*	2403 160 H0
		1	3.25	5.2	2.3	12	12504082	2403 160 H1
		2	3.25	5.2	2.3	12	12504083	2403 160 H2
		3	3.25	5.2	2.3	12	12504084	2403 160 H3
	180	0	3.5	5.7	2.5	12	*12504092*	2403 180 H0
		1	3.5	5.7	2.5	12	*12504094*	2403 180 H1
		2	3.5	5.7	2.5	12	12504093	2403 180 H2
2409	180	0	3.5	4	2.9	12	*12510092*	2409 180 H0

Three square

Triangular, tapered files, cut on three sides, are ideal for working on very small surfaces, cut-outs, geometries, profiles and radii.

Special features:
- Can be used with or without a needle file handle thanks to the forged tang.
- Suitable for use on steels up to 1,200 N/mm².

Profile	Length [mm]	Swiss cut	Tang ø [mm]	Width [mm]		Item no.	Designation
Three square							
2407	140	0	3	3.5	12	12508061	2407 140 H0
		1	3	3.5	12	12508062	2407 140 H1
		2	3	3.5	12	12508063	2407 140 H2
		3	3	3.5	12	12508064	2407 140 H3
	160	0	3.25	3.7	12	12508081	2407 160 H0
		1	3.25	3.7	12	12508082	2407 160 H1
		2	3.25	3.7	12	12508083	2407 160 H2
		3	3.25	3.7	12	12508084	2407 160 H3
	180	00	3.5	4.1	12	12508091	2407 180 H00
		0	3.5	4.1	12	12508092	2407 180 H0
		2	3.5	4.1	12	12508093	2407 180 H2
		3	3.5	4.1	12	12508094	2407 180 H3
	200	00	3.75	4.4	12	12508101	2407 200 H00
		0	3.75	4.4	12	12508102	2407 200 H0
		2	3.75	4.4	12	12508103	2407 200 H2
		3	3.75	4.4	12	12508104	2407 200 H3

Discontinued product

Square

Square, tapered files, cut on four sides, are ideal for working on very small surfaces, cut-outs, geometries, profiles and radii.

Special features:
- Can be used with or without a needle file handle thanks to the forged tang.
- Suitable for use on steels up to 1,200 N/mm².

Profile	Length [mm]	Swiss cut	Tang ø [mm]	Width [mm]		Item no.	Designation
Square							
2408	140	0	3	2.4	12	12511061	2408 140 H0
		1	3	2.4	12	12511062	2408 140 H1
		2	3	2.4	12	12511063	2408 140 H2
		3	3	2.4	12	*12511064*	2408 140 H3
	160	0	3.25	2.5	12	12511081	2408 160 H0
		1	3.25	2.5	12	12511082	2408 160 H1
		2	3.25	2.5	12	12511083	2408 160 H2
		3	3.25	2.5	12	12511084	2408 160 H3
	180	00	3.5	2.7	12	12511091	2408 180 H00
		0	3.5	2.7	12	12511092	2408 180 H0
		2	3.5	2.7	12	12511093	2408 180 H2
	200	00	3.75	3	12	12511101	2408 200 H00
		0	3.75	3	12	12511102	2408 200 H0
		2	3.75	3	12	12511103	2408 200 H2

Knives

Triangular, tapered files with knife profile, cut on two sides, are ideal for working on very small surfaces, cut-outs, geometries, profiles and radii.

Special features:
- Can be used with or without a needle file handle thanks to the forged tang.
- Suitable for use on steels up to 1,200 N/mm².

Profile	Length [mm]	Swiss cut	Tang ø [mm]	Width [mm]	Height [mm]		Item no.	Designation
Knife shape								
2405	140	0	3	5.5	1.5	12	*12506061*	2405 140 H0
		1	3	5.5	1.5	12	12506062	2405 140 H1
		2	3	5.5	1.5	12	12506063	2405 140 H2
	160	0	3.25	5.8	1.7	12	12506081	2405 160 H0
		1	3.25	5.8	1.7	12	12506082	2405 160 H1
		2	3.25	5.8	1.7	12	12506083	2405 160 H2
	180	00	3.5	6.2	1.8	12	*12506091*	2405 180 H00
		0	3.5	6.2	1.8	12	*12506092*	2405 180 H0
		2	3.5	6.2	1.8	12	12506093	2405 180 H2

Discontinued product

Round

Round, tapered files with circumferential cut are ideal for working on very small surfaces, cut-outs, geometries, profiles and radii.

Special features:
- Can be used with or without a needle file handle thanks to the forged tang.
- Suitable for use on steels up to 1,200 N/mm².

Profile	Length [mm]	Swiss cut	Tang ø [mm]	Width [mm]		Item no.	Designation
Round							
2410	140	0	3	3	12	12512061	2410 140 H0
		1	3	3	12	12512062	2410 140 H1
		2	3	3	12	12512063	2410 140 H2
		4	3	3	12	12512064	2410 140 H4
	160	0	3.25	3.25	12	12512081	2410 160 H0
		1	3.25	3.25	12	12512082	2410 160 H1
		2	3.25	3.25	12	12512083	2410 160 H2
		4	3.25	3.25	12	12512084	2410 160 H4
	180	00	3.5	3.5	12	12512090	2410 180 H00
		0	3.5	3.5	12	12512091	2410 180 H0
		1	3.5	3.5	12	12512092	2410 180 H1
		2	3.5	3.5	12	12512093	2410 180 H2
		3	3.5	3.5	12	12512094	2410 180 H3
	200	00	3.75	3.75	12	12512100	2410 200 H00
		0	3.75	3.75	12	12512101	2410 200 H0
		1	3.75	3.75	12	12512102	2410 200 H1
		2	3.75	3.75	12	12512103	2410 200 H2
		3	3.75	3.75	12	*12512104*	2410 200 H3

Half-round

Half-round, tapered files, cut on two sides, are ideal for working on very small surfaces, cut-outs, geometries, profiles and radii.

Special features:
- Can be used with or without a needle file handle thanks to the forged tang.
- Suitable for use on steels up to 1,200 N/mm².

Profile	Length [mm]	Swiss cut	Tang ø [mm]	Width [mm]	Height [mm]		Item no.	Designation
Half-round								
2402	140	0	3	5	1.7	12	12509061	2402 140 H0
		1	3	5	1.7	12	12509062	2402 140 H1
		2	3	5	1.7	12	12509063	2402 140 H2
		3	3	5	1.7	12	12509064	2402 140 H3
	160	0	3.25	5.7	1.8	12	12509081	2402 160 H0
		1	3.25	5.7	1.8	12	12509082	2402 160 H1
		2	3.25	5.7	1.8	12	12509083	2402 160 H2
		3	3.25	5.7	1.8	12	12509084	2402 160 H3
	180	00	3.5	6	2	12	12509091	2402 180 H00

Continued on next page

Discontinued product

Profile	Length [mm]	Swiss cut	Tang ø [mm]	Width [mm]	Height [mm]		Item no.	Designation
2402	180	0	3.5	6	2	12	12509092	2402 180 H0
		2	3.5	6	2	12	12509093	2402 180 H2
		3	3.5	6	2	12	12509094	2402 180 H3
	200	00	3.75	6.4	1.8	12	12509101	2402 200 H00
		0	3.75	6.4	1.8	12	12509102	2402 200 H0
		2	3.75	6.4	1.8	12	12509103	2402 200 H2
		3	3.75	6.4	1.8	12	12509104	2402 200 H3

Barrette

Tapered barrette files, cut on one side, are ideal for working on very small surfaces, cut-outs, geometries, profiles and radii.

Special features:
- Can be used with or without a needle file handle thanks to the forged tang.
- Suitable for use on steels up to 1,200 N/mm².

Profile	Length [mm]	Swiss cut	Tang ø [mm]	Width [mm]	Height [mm]		Item no.	Designation
Barrette shape								
2411	140	0	3	5	2.1	12	*12503061*	2411 140 H0
		1	3	5	2.1	12	*12503062*	2411 140 H1
		2	3	5	2.1	12	*12503063*	2411 140 H2
	160	0	3.25	5.3	2.1	12	12503081	2411 160 H0
		1	3.25	5.3	2.1	12	12503082	2411 160 H1
		2	3.25	5.3	2.1	12	12503083	2411 160 H2
		3	3.25	5.3	2.1	12	12503084	2411 160 H3
	180	0	3.5	5.6	2.3	12	12503092	2411 180 H0
		1	3.5	5.6	2.3	12	*12503093*	2411 180 H1
		2	3.5	5.6	2.3	12	12503094	2411 180 H2

Flat with round edges

The tapered files with round edges and circumferential cut are ideal for working on very small surfaces, cut-outs, geometries, profiles and radii. Needle file cuts 00, 0, 1, 2, 3 and 4, which are not listed in the table, are not available from stock. The delivery time is approx. 8 weeks.

Special features:
- Can be used with or without a needle file handle thanks to the forged tang.
- Suitable for use on steels up to 1,200 N/mm².

Profile	Length [mm]	Swiss cut	Tang ø [mm]	Width [mm]	Height [mm]		Item no.	Designation
Flat with round edges								
2415	160	2	3.25	5.5	1.4	12	*12515083*	2415 160 H2
	180	0	3.5	6	1.5	12	*12515092*	2415 180 H0

Discontinued product

Precision files
Needle files

Hand with round edges

The files with round edges and circumferential cut are ideal for working on very small surfaces, cut-outs, geometries, profiles and radii. Needle file cuts 00, 0, 1, 2, 3 and 4, which are not listed in the table, are not available from stock. The delivery time is approx. 8 weeks.

Special features:
- Can be used with or without a needle file handle thanks to the forged tang.
- Suitable for use on steels up to 1,200 N/mm².

Profile	Length [mm]	Swiss cut	Tang ø [mm]	Width [mm]	Height [mm]		Item no.	Designation
Hand with round edges								
2416	140	1	3	5.1	1.3	12	12502062	2416 140 H1
	160	0	3.25	5.5	1.4	12	12502081	2416 160 H0
		1	3.25	5.5	1.4	12	12502082	2416 160 H1
		2	3.25	5.5	1.4	12	12502083	2416 160 H2
	180	0	3.5	6	1.5	12	12502092	2416 180 H0

Crossing oval round oval

The round-oval crossing oval files, cut on two sides, are ideal for working on very small surfaces, cut-outs, geometries, profiles and radii. Needle file cuts 00, 0, 1, 2, 3 and 4, which are not listed in the table, are not available from stock. The delivery time is approx. 8 weeks.

Special features:
- Can be used with or without a needle file handle thanks to the forged tang.
- Suitable for use on steels up to 1,200 N/mm².

Profile	Length [mm]	Swiss cut	Tang ø [mm]	Width [mm]	Height [mm]		Item no.	Designation
Crossing oval round oval								
2409	160	2	3.25	3.8	2.5	12	12510083	2409 160 H2

Needle file sets

①

②

Needle file sets

Contains an application-oriented selection of needle files.

Contents:
The set contains 12 needle files. The set comprises one each of the following needle files: flat (2406), hand (2401), crossing oval (2403), three square (2407), square (2408), round (2410), knife (2405), half-round (2402), barrette (2411), flat with round edges (2415), hand with round edges (2416), crossing oval round oval (2409).

Special features:
- Supplied in a PVC plastic pouch or a practical plastic box.

Image	Length [mm]	Swiss cut	Contents [Piece]		Item no.	Designation
PVC plastic pouch						
①	140	1	12	1	12703062	266/14 P 140 H1
	160	1	12	1	12704082	266/16 P 160 H1
		2	12	1	12704084	266/16 P 160 H2
	180	0	12	1	12705092	266/18 P 180 H0
	200	0	12	1	12706102	266/20 P 200 H0

Continued on next page

New item

Precision files
Needle file sets

Image	Length [mm]	Swiss cut	Contents [Piece]		Item no.	Designation
Plastic box						
②	140	1	12	1	12712003	NFB 2492 140 H1
		2	12	1	12712004	NFB 2492 140 H2
	160	1	12	1	12799009	NFB 2493 160 H1
		2	12	1	12799010	NFB 2493 160 H2

Needle file handle set

Contains an application-oriented selection of PFERD TOOLS needle files.

Contents:
The set contains six needle files. The set comprises one each of the following needle files: flat (101), hand (102), three square (104), half-round (108), square (105), round (106).

Special features:
- Supplied in a handy box to protect against dirt and damage.

Length [mm]	Swiss cut	Contents [Piece]		Item no.	Designation
160	1	6	1	11260162	PF 263 160 H1

Handy files

Hand

Rectangular precision files similar to needle files, cut on three sides, in a slim, fine design. Suitable for work on the smallest areas of metals and plastics that are hard to reach, e.g. in tool and mould-making for reworking jobs.

Special features:
- The sturdy design enables a higher operating pressure.
- Can be used without a file handle thanks to the forged tang.
- Suitable for use on steels up to 1,200 N/mm² and plastics.

Profile	Length [mm]	Swiss cut	Width [mm]	Height [mm]		Item no.	Designation
2601	215	00	10.3	2.8	12	12463011	2601 215 H00
		1	10.3	2.8	12	12463013	2601 215 H1

Three square

Triangular, highly tapered precision files similar to needle files, cut on three sides, in a slim, fine design. Suitable for work on the smallest areas of metals and plastics that are hard to reach, e.g. in tool and mould-making for reworking jobs.

Special features:
- The sturdy design enables a higher operating pressure.
- Can be used without a file handle thanks to the forged tang.
- Suitable for use on steels up to 1,200 N/mm² and plastics.

Profile	Length [mm]	Swiss cut	Width [mm]		Item no.	Designation
2607	215	00	10	12	12463021	2607 215 H00
		1	10	12	12463023	2607 215 H1

Precision files
Handy files

Square

Square, highly tapered precision files similar to needle files, cut on four sides, in a slim, fine design. Suitable for work on the smallest areas of metals and plastics that are hard to reach, e.g. in tool and mould-making for reworking jobs.

Special features:
- The sturdy design enables a higher operating pressure.
- Can be used without a file handle thanks to the forged tang.
- Suitable for use on steels up to 1,200 N/mm² and plastics.

Profile	Length [mm]	Swiss cut	Width [mm]	Height [mm]		Item no.	Designation
2608	215	00	6	6	12	12463031	2608 215 H00
		1	6	6	12	12463033	2608 215 H1

Half-round

Half-round, highly tapered precision files similar to needle files, cut on two sides, in a slim, fine design. Suitable for work on the smallest areas of metals and plastics that are hard to reach, e.g. in tool and mould-making for reworking jobs.

Special features:
- The sturdy design enables a higher operating pressure.
- Can be used without a file handle thanks to the forged tang.
- Suitable for use on steels up to 1,200 N/mm² and plastics.

Profile	Length [mm]	Swiss cut	Width [mm]	Height [mm]		Item no.	Designation
2602	215	00	12.8	3.7	12	12463051	2602 215 H00
		1	12.8	3.7	12	12463053	2602 215 H1

Handy file sets

Handy file sets

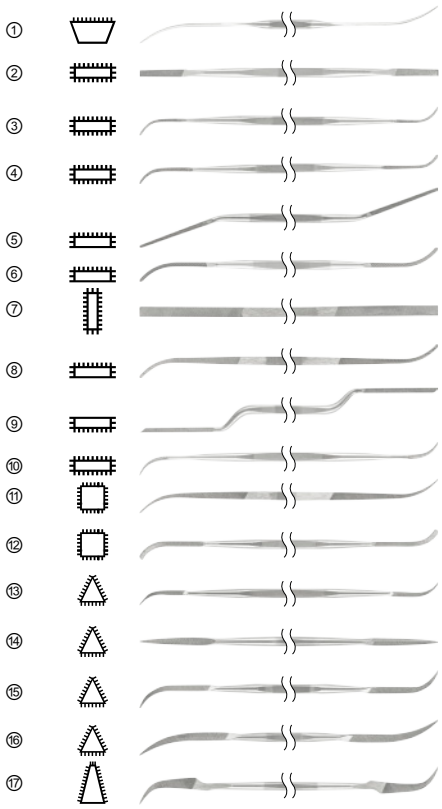
Contain an application-oriented selection of handy files for work on the smallest areas that are hard to reach.

Contents:
The set contains five handy files. The set comprises one each of the following handy files: hand (2601), three square (2607), square (2608), round (2610), half-round (2602).

Special features:
- Supplied in a plastic pouch to protect against dirt, corrosion and damage.

Length [mm]	Swiss cut	Contents [Piece]		Item no.	Designation
215	00	5	1	12732001	2627 215 mm H00
	1	5	1	12732003	2627 215 mm H1

Precision files
Riffler files, riffler rasps



Riffler files series 901P–952P

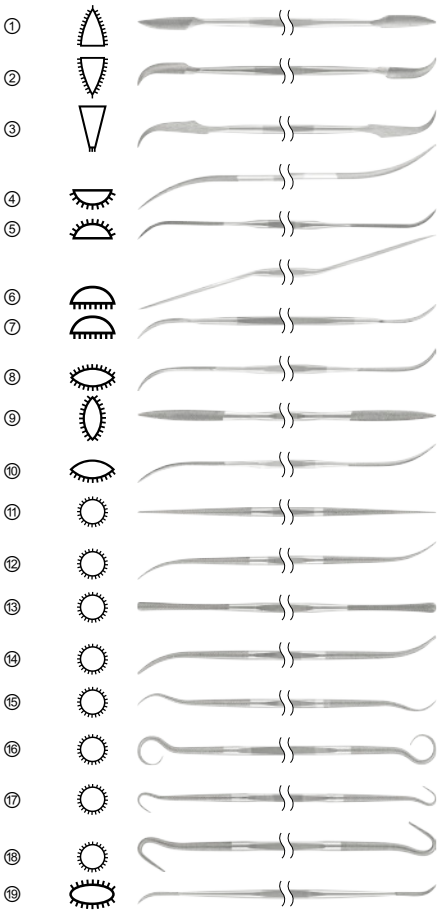
Riffler files in length 150 mm (smallest version).

Special features:
- Can be used with or without riffler file holder.
- Width, application-oriented product selection.
- Suitable for use on steels up to 1,200 N/mm².

Image	Profile	Length [mm]	Swiss cut	Width [mm]	Height [mm]	Suitable arbors		Item no.	Designation
①	901P	150	2	4	1.3	RFH 150	12	12409012	901P 150 H2
②	910P	150	4	2.3	1.2	RFH 150	12	12409104	910P 150 H4
③	911P	150	2	2.3	1.2	RFH 150	12	12409112	911P 150 H2
④	913P	150	2	2.7	1.5	RFH 150	12	12409132	913P 150 H2
⑤	914P	150	2	3.5	1.5	RFH 150	12	12409142	914P 150 H2
⑥	915P	150	2	3.5	1.5	RFH 150	12	12409152	915P 150 H2
⑦	916P	150	2	3.2	1.5	RFH 150	12	12409162	916P 150 H2
⑧	917P	150	2	3.2	1.5	RFH 150	12	12409172	917P 150 H2
⑨	918P	150	2	3.8	1.7	RFH 150	12	12409182	918P 150 H2
⑩	920P	150	2	4.9	1.5	RFH 150	12	12409202	920P 150 H2
⑪	930P	150	2	3.2	3.2	RFH 150	12	12409302	930P 150 H2
⑫	931P	150	2	1.7	1.7	RFH 150	12	12409312	931P 150 H2
⑬	940P	150	2	1.7	-	RFH 150	12	12409402	940P 150 H2
⑭	941P	150	2	2.2	-	RFH 150	12	12409412	941P 150 H2
⑮	942P	150	2	2.6	-	RFH 150	12	12409422	942P 150 H2
			4	2.6	-	RFH 150	12	12409424	942P 150 H4
⑯	943P	150	2	3	-	RFH 150	12	12409432	943P 150 H2
			4	3	-	RFH 150	12	*12409434*	943P 150 H4
⑰	952P	150	2	1.4	4.2	RFH 150	12	12409522	952P 150 H2
			4	1.4	4.2	RFH 150	12	*12409524*	952P 150 H4

Discontinued product

Precision files
Riffler files, riffler rasps



Riffler files series 954P–996P

Riffler files in length 150 mm (smallest version).

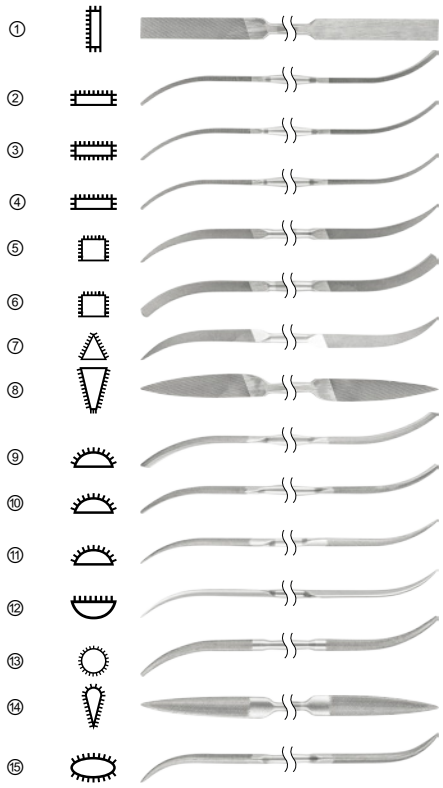
Special features:

- Can be used with or without riffler file holder.
- Width, application-oriented product selection.
- Suitable for use on steels up to 1,200 N/mm².

Image	Profile	Length [mm]	Swiss cut	Width [mm]	Height [mm]	Suitable arbors		Item no.	Designation
①	954P	150	2	1.5	4	RFH 150	12	12409542	954P 150 H2
②	955P	150	4	1.5	4	RFH 150	12	12409554	955P 150 H4
③	956P	150	2	1.6	4.1	RFH 150	12	12409562	956P 150 H2
④	961P	150	2	4.1	2.4	RFH 150	12	12409612	961P 150 H2
⑤	963P	150	2	4.6	1.3	RFH 150	12	12409632	963P 150 H2
⑥	964P	150	2	4.5	1.4	RFH 150	12	*12409642*	964P 150 H2
⑦	965P	150	2	5.2	1.5	RFH 150	12	12409652	965P 150 H2
⑧	972P	150	2	3.6	2.1	RFH 150	12	12409722	972P 150 H2
⑨	973P	150	2	3.6	2.1	RFH 150	12	12409732	973P 150 H2
⑩	974P	150	2	3.6	2.1	RFH 150	12	12409742	974P 150 H2
⑪	980P	150	2	3.5	-	RFH 150	12	12409802	980P 150 H2
⑫	981P	150	2	3.5	-	RFH 150	12	12409812	981P 150 H2
			4	3.5	-	RFH 150	12	*12409814*	981P 150 H4
⑬	982P	150	2	3	-	RFH 150	12	12409822	982P 150 H2
⑭	983P	150	2	3.2	-	RFH 150	12	12409832	983P 150 H2
⑮	984P	150	2	3.2	-	RFH 150	12	12409842	984P 150 H2
⑯	985P	150	2	3.2	-	RFH 150	12	12409852	985P 150 H2
			4	3.2	-	RFH 150	12	12409854	985P 150 H4
⑰	986P	150	2	2.6	-	RFH 150	12	12409862	986P 150 H2
⑱	988P	150	2	3.2	-	RFH 150	12	12409882	988P 150 H2
⑲	996P	150	2	2.2	1.4	RFH 150	12	12409962	996P 150 H2

Discontinued product

Precision files
Riffler files, riffler rasps



Riffler files series 710P–795P

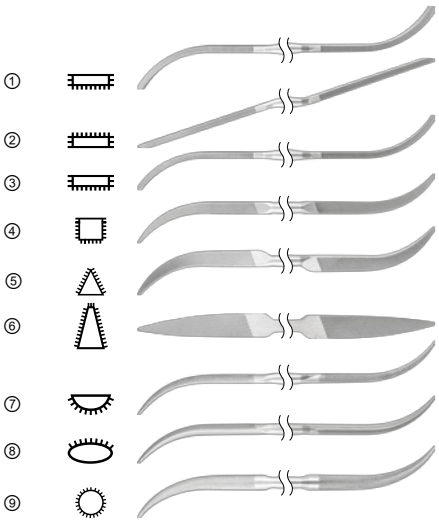
Riffler files in length 180 mm (medium version).

Special features:
- Can be used with or without riffler file holder.
- Width, application-oriented product selection.
- Suitable for use on steels up to 1,200 N/mm².

Image	Profile	Length [mm]	Swiss cut	Width [mm]	Height [mm]	Suitable arbors		Item no.	Designation
①	710P	180	0	8.5	2.5	RFH 180	12	12407100	710P 180 H0
			2	8.5	2.5	RFH 180	12	12407102	710P 180 H2
②	711P	180	0	8.5	2.5	RFH 180	12	12407110	711P 180 H0
			2	8.5	2.5	RFH 180	12	12407112	711P 180 H2
③	712P	180	0	8.2	2.5	RFH 180	12	12407120	712P 180 H0
			2	8.2	2.5	RFH 180	12	12407122	712P 180 H2
④	713P	180	0	8.2	2.5	RFH 180	12	*12407130*	713P 180 H0
			2	8.2	2.5	RFH 180	12	12407132	713P 180 H2
⑤	731P	180	0	4.5	4.5	RFH 180	12	12407310	731P 180 H0
			2	4.5	4.5	RFH 180	12	12407312	731P 180 H2
⑥	732P	180	0	4.5	4.5	RFH 180	12	12407320	732P 180 H0
			2	4.5	4.5	RFH 180	12	12407322	732P 180 H2
⑦	741P	180	0	6.5	-	RFH 180	12	12407410	741P 180 H0
			2	6.5	-	RFH 180	12	12407412	741P 180 H2
⑧	750P	180	0	9.5	2.5	RFH 180	12	12407500	750P 180 H0
			2	9.5	2.5	RFH 180	12	12407502	750P 180 H2
⑨	761P	180	0	9.2	3.2	RFH 180	12	12407610	761P 180 H0
			2	9.2	3.2	RFH 180	12	12407612	761P 180 H2
⑩	762P	180	2	9.3	3.2	RFH 180	12	12407622	762P 180 H2
⑪	763P	180	0	9.5	3.3	RFH 180	12	12407630	763P 180 H0
			2	9.5	3.3	RFH 180	12	12407632	763P 180 H2
⑫	764P	180	2	9.5	3.3	RFH 180	12	12407642	764P 180 H2
⑬	781P	180	0	5	-	RFH 180	12	12407810	781P 180 H0
			2	5	-	RFH 180	12	12407812	781P 180 H2
⑭	790P	180	2	8.5	4	RFH 180	12	12407902	790P 180 H2
⑮	795P	180	2	8	4.3	RFH 180	12	12407952	795P 180 H2

Discontinued product

Precision files
Riffler files, riffler rasps



Riffler files series 410P–480P

Riffler files in length 300 mm (longest version).

Special features:
- Can be used with or without riffler file holder.
- Width, application-oriented product selection.
- Suitable for use on steels up to 1,200 N/mm².

Image	Profile	Länge [mm]	Swiss cut	Width [mm]	Height [mm]		Item no.	Designation
①	410P	300	0	15	4	6	*12404100*	410P 300 H0
			2	15	4	6	*12404102*	410P 300 H2
②	411P	300	0	15	4.4	6	*12404110*	411P 300 H0
			2	15	4.4	6	*12404112*	411P 300 H2
③	412P	300	0	15	4.4	6	*12404120*	412P 300 H0
④	430P	300	0	8	8	6	*12404300*	430P 300 H0
			2	8	8	6	*12404302*	430P 300 H2
⑤	440P	300	0	12	12	6	*12404400*	440P 300 H0
			2	12	12	6	*12404402*	440P 300 H2
⑥	450P	300	0	15	12	6	*12404500*	450P 300 H0
⑦	460P	300	0	15	6	6	*12404600*	460P 300 H0
⑧	470P	300	0	14	7	6	*12404700*	470P 300 H0
⑨	480P	300	0	10	-	6	*12404800*	480P 300 H0
			2	10	-	6	*12404802*	480P 300 H2

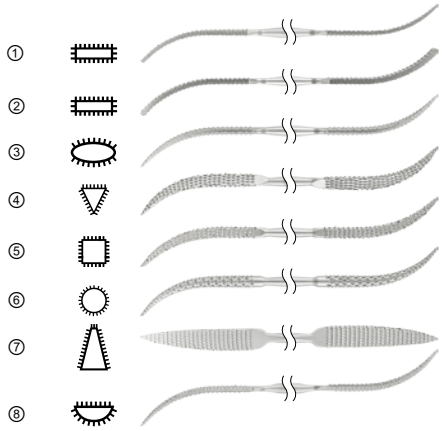
Riffler file set PF 900

Contains an application-oriented selection of riffler files. Matching arbor = RFH 150.

Special features:
- Can be used with or without riffler file holder.
- Width, application-oriented product selection.
- Suitable for use on steels up to 1,200 N/mm².

Profile	Length [mm]	Swiss cut	Contents [Piece]		Item no.	Designation
PF 900	150	2	4	1	11261900	PF 900

Discontinued product



Riffler rasp series 701P–708P

190 mm long riffler rasps with precise Swiss rasp cut.

Special features:
- Can be used with or without riffler file holder.
- Width, application-oriented product selection.
- Suitable for use on steels up to 1,200 N/mm².

Image	Profile	Länge [mm]	Swiss rasp cut	Width [mm]	Height [mm]	Suitable arbors		Item no.	Designation
①	701P	190	0	8.2	3.3	RFH 180	12	12457190	701P 190 H0
②	702P	190	0	8.1	3.5	RFH 180	12	12457290	702P 190 H0
③	703P	190	0	7.6	4.4	RFH 180	12	12457390	703P 190 H0
④	704P	190	0	6.4	-	RFH 180	12	12457490	704P 190 H0
⑤	705P	190	0	4.9	-	RFH 180	12	12457590	705P 190 H0
⑥	706P	190	0	5.5	-	RFH 180	12	12457690	706P 190 H0
⑦	707P	190	0	9.2	3.6	RFH 180	12	12457790	707P 190 H0
⑧	708P	190	0	9.3	3.8	RFH 180	12	12457890	708P 190 H0

Riffler rasp set 720P

Contains an application-oriented selection of riffler rasps. Matching arbor = RFH 180.

Special features:
- Can be used with or without riffler file holder.
- Width, application-oriented product selection.
- Suitable for use on steels up to 1,200 N/mm².

Profile	Length [mm]	Swiss cut	Contents [Piece]		Item no.	Designation
720P	190	0	8	1	12707202	720P

File handles, file sleeves, file brush

File handles

① ② ③ ④

Ergonomic file handles

Ergonomic file handles for comfortable and safe work. Soft plastic without plasticizer on the outside with a hard, stable inner part.

Special features:
- Protects hands against sharp edges and corners.
- Ergonomic shape with optimized handle.
- Files do not roll away.

Image	Suitable for file length [mm]	Total length [mm]	Suitable for		Item no.	Designation
①	100, 125	110	Profiles: square, round, key files	10	12617120	FH 2-10
				100	12617220	FH 2-100
	100, 150	110	Profiles: hand, flat, half-round, half-round pointed, three square. Profiles: square, round; for file length 150 mm suitable file handle is FH 3.	10	12617130	FH 3-10
				100	12617230	FH 3-100
②	200, 250	115	Profiles: three square (file handle FH 5 is suitable for a file length of 250 mm), square, round, special shapes	10	12617140	FH 4-10
				100	12617240	FH 4-100
③	200, 250	115	Profiles hand, flat, half-round	10	12617141	FH 4/1-10
				100	12617241	FH 4/1-100
②	300, 350	115	Profiles three square, square, round, special shapes	10	12617150	FH 5-10
				100	12617250	FH 5-100
④	300, 350	115	Profiles hand, flat, half-round	10	12617151	FH 5/1-10
				100	12617251	FH 5/1-100

Hoof plane file handle

Hoof plane file handle for comfortable and safe work.

Special features:
- Protects hands against sharp edges and corners.
- Ergonomic shape with optimized handle.

Suitable for file length [mm]	Total length [mm]	Suitable for		Item no.	Designation
350	110	Hoof plane	1	12612000	FH 6/1

File handles, file sleeves, file brush
File handles

① ② ③

Plastic file handles

Stable plastic file handles for good guidance and power transmission.

Special features:
- Wide collar guarantees work with low levels of fatigue and increases safety.
- Good power transmission and control of the file.
- Air chambers help absorb hand moisture.

Image	Suitable for file length [mm]	Total length [mm]	Suitable for		Item no.	Designation
①	100, 125, 150	90	Key files	10	12616108	PH 08/10
				100	12616208	PH 08/100
			all tangs	10	12616109	PH 09/10
				100	12616209	PH 09/100
②	200, 250	110	all tangs	10	12616111	PH 11/10
				100	12616211	PH 11/100
③	300, 350	120	all tangs	10	12616113	PH 13/10
				100	12616213	PH 13/100

Quick-mounting handles

Quick-mounting handle

Quick-mounting handle for needle files, diamond files and smaller machinist's and precision files.

Special features:
- Reliably clamps the file tangs into the handle by simply twisting the two halves of the handle.

Suitable for file length [mm]	Suitable for tang diameter [mm]	Total length [mm]		Item no.	Designation
140, 160, 180, 200	3.0 / 3.25 / 3.5 / 3.75	90	10	12605004	SH 220

① ②

Needle file holder

Quick-mounting handles for needle files with 3–4.5 mm tang diameter.

Special features:
- Practical and lightweight.
- Available in two materials.

Image	Suitable for tang diameter [mm]	Total length [mm]		Item no.	Designation
①	3.0 / 3.25 / 3.5 / 3.75	100	10	12299004	NFH 211-3 K
②	3.0 / 3.25 / 3.5 / 3.75	92	10	12299010	NFH 212

File handles, file sleeves, file brush
Riffler file holder

Riffler file holder

Riffler file holder without plasticizer.

Special features:
- Safe and optimum file control.
- One of the file points is always covered safely by the file handle.
- Quick and easy tool changes.

Suitable for file length [mm]		Item no.	Designation
150	10	12602172	RFH 150
180	10	12604224	RFH 180

Empty plastic sleeves

Empty plastic sleeves

Plastic sleeves for storing individual files without a handle.

Special features:
- Enables the file to be hung up by the eyelet.
- Protects against damage, dirt and corrosion.

Suitable for file length [mm]		Item no.	Designation
150	25	12621150	KH 150
200	25	12622200	KH 200
250	25	12623250	KH 250
300	25	12624300	KH 300

File brush

File brush

The file brush effortlessly cleans chips from a clogged file. With robust wooden handle with wear-resistant steel wire filament.

Special features:
- Easy to clean.
- Long tool life.

Length [mm]		Item no.	Designation
Steel wire (ST)			
232	5	12601000	HBF 10 ST 0,30

Hand deburrer

Easy change blades and countersinks for efficient deburring, chamfering and reworking of different materials and contours. Hard-to-reach areas, bores, inner and outer diameters, thread and grooves can be worked on effortlessly by hand.

Special features:

- Easy to control and use with the special holder.
- The pivot-mounted adapter system makes handling and changing the deburrer very easy.
- Ergonomic file handle protects hands against sharp edges and prevents the tool from rolling away.

Image	Diameter [mm]	Use for	Countersink dia. [mm]		Item no.	Designation
Holder for hand deburrer						
①	-	all types	-	1	12605005	H 4
Deburring blades						
②	3	Steel, aluminium	-	10	14300010	BS 1010
③	3	Plastics, other soft materials	-	10	14300020	BS 1018
④	3	Non-ferrous metals, cast iron	-	10	14300030	BS 2010
Mini blade						
⑤	3	general use	-	1	14300040	BD 5010
Deburring countersink						
⑥	3	general use	10.4	1	14300050	BC 1041
⑦	3	general use	16.5	1	14300060	BC 1651

PFERD TOOLS

2

Milling, drilling and countersinking tools

Milling, drilling and countersinking tools
Table of contents

PFERD TOOLS

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Milling, drilling and countersinking tools

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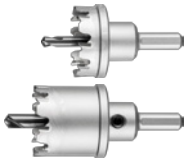

TC hole cutters and accessories

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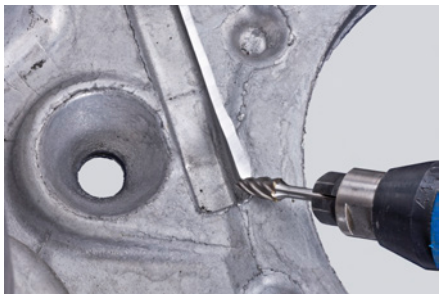
Milling, drilling and countersinking tools
Highlights from the PFERD TOOLS range

PFERD TOOLS

Tungsten carbide burrs with high-performance cut ALU

Aluminium plays a crucial role in many industrial sectors. At the same time, machining of aluminium presents a number of challenges: Conventional cross cuts can become clogged very quickly, especially on soft aluminium alloys.

Unlike conventional cross cuts, burrs with the ALU cut feature a material-optimized tooth geometry. In combination with the high-quality HC-NFE coating, they prevent the formation of built-up edges and tool clogging.



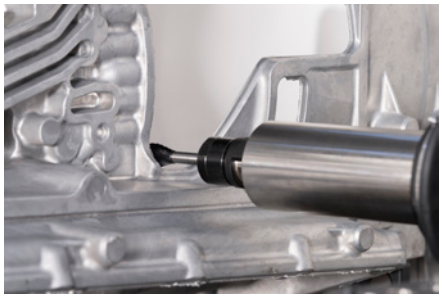
Advantages:
- High stock removal rate combined with a smooth milling action on aluminium and special aluminium alloys, non-ferrous metals and plastics.
- HC-NFE coating prevents material adhesion when working on long-chipping and lubricating non-ferrous metals.
- Can be used with cutting speeds of up to 1,100 m/min (HC-NFE: up to 1,300 m/min).

Milling tools for robot applications

PFERD TOOLS' impressive milling tools for robot applications meet the highest quality standards during production and offer high performance and wear resistance.

Our portfolio of products tailored specifically to the requirements of robot applications features innovative burr geometries which help to achieve significant process chain optimizations. The specially developed burr shapes such as KZW, KSK-WKN and SKM-ZYA combine the performance characteristics of various geometries in a single tool, enabling effortless chamfering and deburring in just one operation.

The result: Considerably reduced process costs due to fewer tool changes and significantly reduced programming effort.



Advantages:
- Less programming needed due to fewer tool changes.
- High-quality HICOAT coating for a much higher stock removal rate.

HICOAT coating

PFERD TOOLS offers tools with HICOAT coatings to tackle particularly demanding applications. Three different coatings are available. The HICOAT coating HC-FEP is specifically designed for iron and steel materials. The HICOAT coating HC-STS is optimized for use on stainless steels. The HICOAT coating HC-NFE is mainly used for long-chipping and lubricating aluminium alloys and non-ferrous metals, as it prevents material adhesion. In general, all PFERD TOOLS tungsten carbide burrs are also available with HICOAT coatings.

Scan the QR code to find out more about PFERD TOOLS' HICOAT coatings.

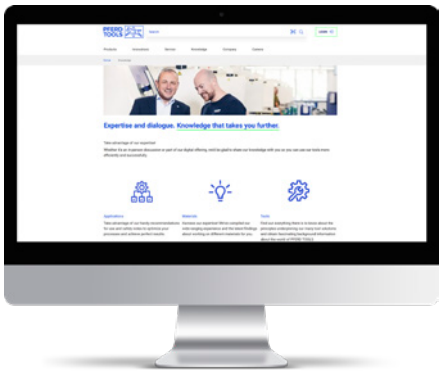
Advantages:
- Improved anti-adhesion characteristics.
- Effective chip discharge.
- Lower thermal loads.
- Increased tool life.
- Burrs with the HICOAT coating HC-FEP achieve a much higher stock removal rate than uncoated burrs.

Milling, drilling and countersinking tools
Highlights from the PFERD TOOLS range

PFERD TOOLS

More expert information online

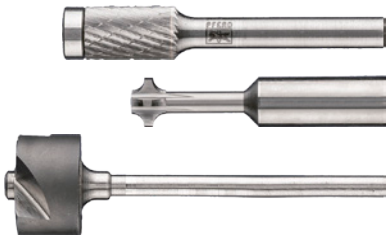
Scan the QR code to find out a wide range of tool and application knowledge relating to PFERD TOOLS' high-quality tools and their huge variety of materials.



Milling, drilling and countersinking tools
General information

Custom-made products

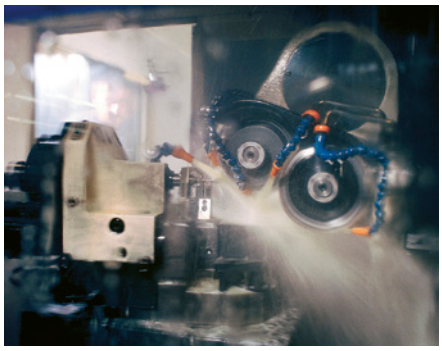
If you cannot find the solution for your particular application in our comprehensive catalogue range, we are happy to produce milling tools to meet your wishes and requirements. Our sales representatives and technical advisers will be happy to assist you in analyzing your task. Your specifications and wishes, drawings relating to cuts, shank diameters, special lengths, special shapes and coatings can thus be taken into account.



Resharpening

PFERD TOOLS offers resharpening of tungsten carbide burrs, subject to a minimum resharpening quantity of 25 units (unmixed items). Resharpening of HSS rotary cutters or tungsten carbide burrs with a shank diameter of 3 mm is not recommended for economic reasons. In each case, our production specialists will decide whether resharpening makes sense from an economic point of view and is technically feasible. The following cuts can be resharpened (only applies to a shank diameter of 6 and 8 mm):

- Cut 1
- Cut 3
- Cut 3 PLUS
- Cut 4
- Cut 5
- INOX
- ALU
- TITANIUM
- TOUGH
- TOUGH-S
- MICRO



Robotics at PFERD TOOLS

To provide the best possible overview of our high-performance robotics range, we have marked all milling tools that are particularly well suited to robot-guided use with a pictogram.

In addition to the milling tools that have been specifically optimized for robot applications, selected coated tungsten carbide burrs with a shank diameter of 6 mm or more can also be used on the robot.

We are also happy to develop custom products for your robot applications. PFERD TOOLS has a long tradition of developing tools for robot applications. Our in-house research and development, along with our experienced application engineers, have successfully optimized numerous robotics applications around the world.

Safety notes

- For safety reasons, the maximum permitted rotational speed indicated must never be exceeded.

Wear eye protection!

Wear hearing protection!

Wear a dust mask!

Wearing protective gloves is recommended. Handle the tool drive with both hands.

Observe the recommended rotational speed, especially when using burrs with long shanks!

Observe the contact angle of 5–60° (**ALU**MASTER HSD-F)!

Tighten the bolts!

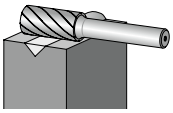
Do not use if damaged!

Do not use for cutting!

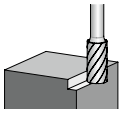
CE-marked

Milling, drilling and countersinking tools
Burr shapes

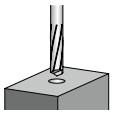
PFERD TOOLS



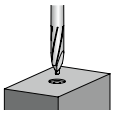
ZYA
Cylindrical shape



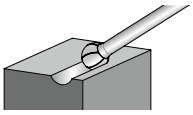
ZYAS/HSS A-ST
Cylindrical shape with end cut



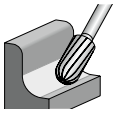
ZYA BS
Cylindrical shape with drill cut



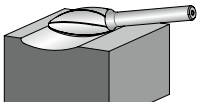
ZYA ZBS
Cylindrical shape with centre drill



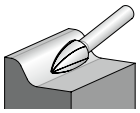
KUD/HSS F
Ball shape



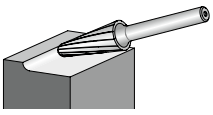
WRC/HSS C
Cylindrical shape with radius end



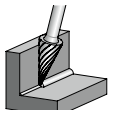
B
Flame shape



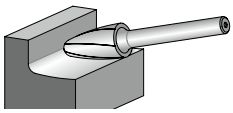
SPG/ HSS K
Pointed tree shape



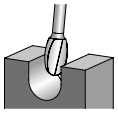
KEL/HSS L
Conical shape with radius end



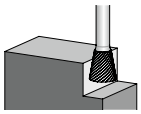
SKM/HSS G
Conical pointed shape



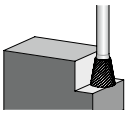
RBF/HSS H
Tree shape with radius end



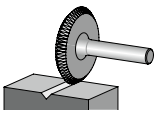
TRE/HSS O
Oval shape



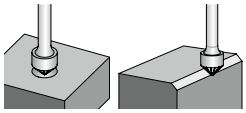
WKN
Inverted cones



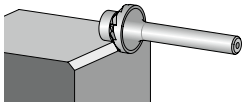
WKNS/HSS W-ST
Inverted cones with end cut



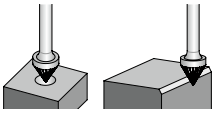
N
Disc shape



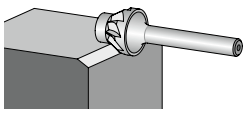
KSK
Conical counterbore shape 90°



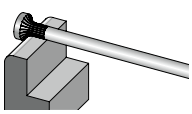
KSK EDGE
EDGE 45°



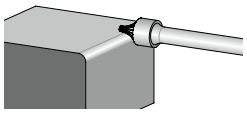
KSJ
Conical counterbore shape 60°



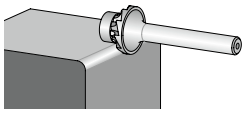
KSJ EDGE
EDGE 30°



R
Radius burrs



V
Concave radius burrs



V EDGE
EDGE R3.0

The quick way to find the perfect tool

Application	Material group			Used for	High-performance application	Universal application
Deburring, chamfering, milling out for the preparation of build-up welding, machining weld seams, machining contours, cleaning cast material	Steel, cast steel	Steels up to 1,200 N/mm² (< 38 HRC)	Construction steels, carbon steels, tool steels, non-alloyed steels, case-hardened steels, cast steel, tempering steels	Coarse stock removal	STEEL ALLROUND	3 PLUS
				Fine stock removal	MICRO	5
		Hardened, heat-treated steels over 1,200 N/mm² (> 38 HRC)	Tool steels, tempering steels, alloyed steels, cast steel	Coarse stock removal	STEEL ALLROUND	3 PLUS
				Fine stock removal	MICRO	5
	Stainless steel (INOX)	Rust and acid-resistant steels	Austenitic and ferritic stainless steels	Coarse stock removal	INOX ALLROUND	4
				Fine stock removal	MICRO	5
	Non-ferrous metals	Soft non-ferrous metals	Aluminium alloys	Coarse stock removal	ALU	1
				Fine stock removal		-
			Brass, copper, zinc	Coarse stock removal	NON-FERROUS ALU ALLROUND	1
				Fine stock removal	ALU	3
		Hard non-ferrous metals	Bronze, titanium/ titanium alloys, hard aluminium alloys (high Si content)	Coarse stock removal	TITANIUM ALU NON-FERROUS INOX ALLROUND	4
				Fine stock removal	MICRO	5
		High-temperature-resistant materials	Nickel-based and co-balt-based alloys (engine and turbine construction)	Coarse stock removal	On request	4
				Fine stock removal	MICRO	5
	Cast iron	Grey cast iron, white cast iron	Cast iron with flake graphite EN-GJL (GG), with nodular graphite/nodular cast iron EN-GJS (GGG), white annealed cast iron EN-GJMW (GTW), black annealed cast iron EN-GJMB (GTS)	Coarse stock removal	CAST ALLROUND	3 PLUS
				Fine stock removal	MICRO	3
Milling out, machining contours	Plastics, other materials	Thermoplastics, fibre-reinforced plastics (GRP/CRP) with a fibre content ≤ 40%		Coarse stock removal	PLAST	-
Trimming, contour milling, cutting out holes		Thermoplastics, fibre-reinforced plastics (GRP/CRP) with a fibre content > 40%			FVK/FVKS ALU NON-FERROUS	

Special applications

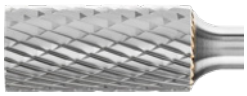
Application	High-performance application	Universal application
Work on edges	TC burrs for work on edges	-
	EDGE FINISH system for work on edges	-
Problems with broken teeth	TC burrs – TOUGH, TOUGH-S cuts	HSS rotary cutters
Cutting out round holes	TC hole cutter	HSS step drills, HSS hole saws
Machining butt welds and fillet welds, work on edges/ chamfering using an angle grinder	**ALU**MASTER High Speed Disc	-
Machining butt welds and fillet welds, work on edges	High Speed Torus Cutter	-
Deburring and chamfering in a single step in robot applications	TC burrs KZW MICRO RS with HICOAT coating HC-FEP, TC burrs KZW cut 3 RS with HICOAT coating HC-FEP	-

TC burrs
PFERD TOOLS cuts

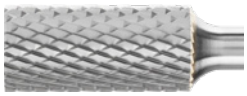
PFERD TOOLS cuts for universal applications

Cut 1 (C according to DIN 8033)
- Machining of non-ferrous metals, steel and cast iron.
- High stock removal and good surfaces.

Cut 3 (MY according to DIN 8033)
- Machining of steel, cast iron, stainless steel (INOX), nickel-based alloys and titanium alloys.
- High stock removal and good surfaces.
- Good surface.
- Burrs with the HICOAT coating HC-FEP achieve a much higher stock removal rate than uncoated burrs.



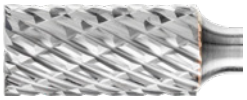
Cut 3 PLUS (MX according to DIN 8033)
- Similar to the 3 cut, but with cross cut.
- Machining of steel, cast iron, stainless steel (INOX), nickel-based alloys and titanium alloys.
- High stock removal and good surfaces.
- Burrs with the HICOAT coating HC-FEP achieve a much higher stock removal rate than uncoated burrs.



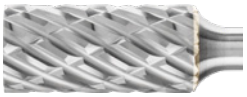
Cut 4 (MX according to DIN 8033)
- Machining of stainless steel (INOX), steel and high-temperature-resistant materials such as nickel-based and cobalt-based alloys.
- High stock removal with short chips.
- Good surface.
- Burrs with the HICOAT coating HC-FEP achieve a much higher stock removal rate than uncoated burrs.

Cut 5 (F according to DIN 8033)
- Fine machining of steel, cast iron, stainless steel (INOX) and high-temperature-resistant materials such as nickel-based and cobalt-based alloys.
- Good surface.
- Burrs with HICOAT coating HC-FEP for high hardness and wear resistance.

PFERD TOOLS cuts for high-performance applications



ALLROUND cut
- High stock removal rate on key materials such as steel, cast steel, stainless steel (INOX), non-ferrous metals and cast iron.
- Similar to the 3 PLUS cut but with a significantly higher stock removal rate.
- Burrs with the HICOAT coating HC-FEP achieve a much higher stock removal rate than uncoated burrs.

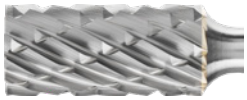


STEEL cut
- Extremely high stock removal rate on steel and cast steel.
- Smooth milling.
- Reduced vibration and less noise.
- Burrs with the HICOAT coating HC-FEP achieve a much higher stock removal rate than uncoated burrs.

TC burrs
PFERD TOOLS cuts

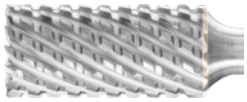
INOX cut
- Extremely high stock removal rate on all austenitic, rust and acid-resistant steels, stainless steel (INOX) and soft titanium alloys (tensile strength < 500 N/mm²).
- Significantly reduced vibration and less noise.
- Burrs with HICOAT coating HC-STS demonstrate high hardness and wear resistance in comparison with uncoated burrs.

ALU cut
- High stock removal rate on aluminium and aluminium alloys, non-ferrous metals and plastics.
- Smooth milling.
- High-quality HICOAT coating HC-NFE for long-chipping and smearing aluminium alloys and non-ferrous metals.
- Can be used with cutting speeds of up to 1,100 m/min (HC-NFE: up to 1,300 m/min).



NON-FERROUS cut
- High stock removal rate on non-ferrous metals, brass, copper, plastics and fibre-reinforced plastics.
- Suitable for universal use.

CAST cut
- Extremely high stock removal rate on cast iron.
- Smooth milling.
- Reduced vibration and less noise.



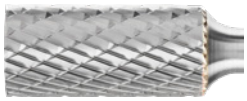
TITANIUM cut
- Outstanding stock removal rate and tool life on hard titanium alloys.
- Tangibly more aggressive, large chips and very good chip removal.
- Reduced vibration and less noise.
- For soft titanium alloys (tensile strength < 500 N/mm²), PFERD TOOLS recommends the INOX cut.

EDGE cut
- Creates exact edge shapes – with either 30° or 45° chamfering or a defined radius of 3.0 mm.
- Safe and comfortable to guide.

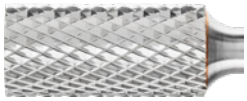
PLAST cut
- Trimming and contour milling of workpieces made from less hard glass and carbon-fibre-reinforced duroplastics (GRP and CRP with ≤ 40 % fibre content) and fibre-reinforced thermoplastics.
- Minimized delamination and fraying through straight cut.
- Highly suitable for use on machines and on robots.
- Reduced vibration and less noise.

FVK cut
- Trimming and contour milling of workpieces made from hard glass and carbon-fibre-reinforced duroplastics (also GRP and CRP > 40 %).

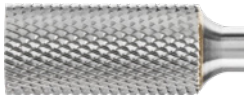
FVKS cut
- Similar to the FVK cut.
- Smooth milling.
- Generates smooth cut edges.
- For use on machines and robots with high feed rates.



TOUGH cut
- High stock removal rate on cast iron, steel < 54 HRC.
- Extremely resistant to impacts.
- Also suitable for use with high surface contact angles > 1/3 and under impact loads.



TOUGH-S cut
- High stock removal rate on cast iron, steel < 54 HRC.
- Similar to the TOUGH cut, but with smoother milling and shorter chips.
- Extremely resistant to impacts.
- Also suitable for use with high surface contact angles > 1/3 and under impact loads.



MICRO cut
- Good stock removal on almost all materials < 68 HRC.
- High surface quality.
- Reduced vibration and less noise.
- Burrs with HICOAT coating HC-FEP for high hardness and wear resistance.

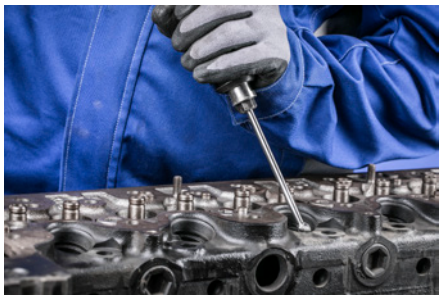
Note
- On tungsten carbide burrs designed for high-performance applications, blue discolouration cannot be avoided on account of the very high stock removal rate. However, this does not constitute a safety risk.

Tungsten carbide burrs with a long shank

Tungsten carbide burrs with long shanks are particularly well suited to working in hard-to-reach areas. PFERD TOOLS holds long-shank versions in stock for the respective product groups. Long-shank versions are available with the 3 PLUS, STEEL, Z5 and TOUGH cuts. Additional variants can be custom-made on request. Tungsten carbide burrs with a long steel shank SL should only be used with rigid clamping systems and drives. There is a risk that they may break off!

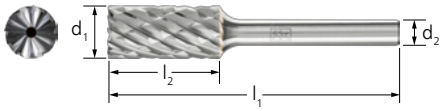
In some applications, drive spindle extensions are an economic alternative to customized burrs with long shanks.

For more information please see catalogue section 9.



Explanation of the code system

d_1 = Burr dia.
l_2 = Cut length
d_2 = Shank dia.
l_1 = Total length



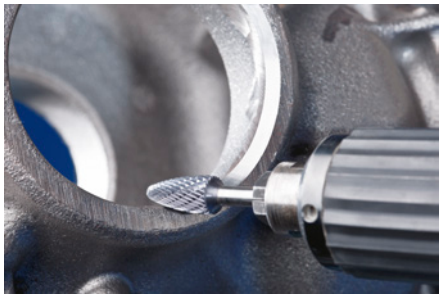
Recommendations for use

An optimum rotational speed and power output for the tool drive are required for cost-effective use of tungsten carbide burrs. Using tungsten carbide burrs on drives with an elastically mounted spindle significantly improves comfort when working. What's more, the grinder's elastically mounted spindle guarantees a longer tool life, especially when using tungsten carbide burrs. Scan the QR code to obtain more handy recommendations for use relating to milling work.

Recommended rotational speed range [RPM]

To determine the recommended cutting speed range [m/min], please proceed as follows:
① Select the material group to be machined.
② Determine the type of application.
③ Select the cut.
④ Establish the cutting speed range.

To determine the recommended rotational speed range [RPM], please proceed as follows:
⑤ Select the required burr diameter.
⑥ The cutting speed range and the burr diameter determine the recommended rotational speed range.



① Coarse stock removal			② Used for	③ Cut	④ Cutting speed
Steel, cast steel	Steels up to 1,200 N/mm² (< 38 HRC)	Construction steels, carbon steels, tool steels, non-alloyed steels, case-hardened steels, cast steel, tempering steels	Coarse stock removal	1	600–900 m/min
				3 PLUS	450–600 m/min
				3 PLUS HC-FEP	450–750 m/min
			Fine stock removal	5	450–600 m/min
				5 HC-FEP	450–750 m/min
	Hardened, heat-treated steels over 1,200 N/mm² (> 38 HRC)	Tool steels, tempering steels, alloyed steels, cast steel	Coarse stock removal	3	250–350 m/min
				3 PLUS	
				4	
				3 HC-FEP	250–450 m/min
				3 PLUS HC-FEP	
				4 HC-FEP	
			Fine stock removal	5	350–450 m/min
				5 HC-FEP	350–600 m/min
Stainless steel (INOX)	Rust and acid-resistant steels	Austenitic and ferritic stainless steels	Coarse stock removal	1	250–450 m/min
				3	250–350 m/min
				3 PLUS	
				3 HC-FEP	250–450 m/min
				4	
				4 HC-FEP	250–600 m/min
			Fine stock removal	5	350–450 m/min
				5 HC-FEP	350–600 m/min
Non-ferrous metals	Soft non-ferrous metals	Aluminium alloys	Coarse stock removal	1	600–900 m/min
		Brass, copper, zinc	Coarse stock removal	1	600–900 m/min
			Fine stock removal	3	450–600 m/min
				3 HC-FEP	450–750 m/min
	Hard non-ferrous metals	Bronze, titanium/titanium alloys, hard aluminium alloys (high Si content)	Coarse stock removal	3	250–350 m/min
				4	
				3 HC-FEP	250–450 m/min
				4 HC-FEP	
			Fine stock removal	5	350–450 m/min
				5 HC-FEP	350–600 m/min
	High-temperature-resistant materials	Nickel-based and cobalt-based alloys (engine and turbine construction)	Coarse stock removal	3 PLUS	250–450 m/min
				4	
				4 HC-FEP	250–600 m/min
			Fine stock removal	5	350–600 m/min
				5 HC-FEP	350–750 m/min
Cast iron	Grey cast iron, white cast iron	Cast iron with flake graphite EN-GJL (GG), with nodular graphite/nodular cast iron EN-GJS (GGG), white annealed cast iron EN-GJMW (GTW), black annealed cast iron EN-GJMB (GTS)	Coarse stock removal	1	600–900 m/min
				3 PLUS	450–600 m/min
			Fine stock removal	3	450–600 m/min
				3 HC-FEP	450–750 m/min

TC burrs
Cutting speeds – burrs for material-specific applications

PFERD TOOLS

① Material group			② Used for	③ Cut	④ Cutting speed
Steel, cast steel	Steels up to 1,200 N/mm² (below 38 HRC)	Construction steels, carbon steels, tool steels, non-alloyed steels, case-hardened steels, cast steel, tempering steels	Coarse stock removal	ALLROUND	450–750 m/min
				ALLROUND HC-FEP	450–900 m/min
				STEEL	450–750 m/min
				STEEL HC-FEP	450–900 m/min
	Hardened, heat-treated steels over 1,200 N/mm² (over 38 HRC)	Tool steels, tempering steels, alloyed steels, cast steel	Coarse stock removal	ALLROUND	250–450 m/min
				ALLROUND HC-FEP	250–600 m/min
				STEEL	450–750 m/min
				STEEL HC-FEP	450–900 m/min
Stainless steel (INOX)	Rust and acid-resistant steels	Austenitic and ferritic stainless steels	Coarse stock removal	ALLROUND	450–600 m/min
				INOX	450–600 m/min
			Fine stock removal	INOX HC-STS	450–750 m/min
Non-ferrous metals	Soft non-ferrous metals	Aluminium alloys	Coarse stock removal	ALU	600–1,100 m/min
				ALU HC-NFE	600–1,300 m/min
			Fine stock removal	ALU	900–1,100 m/min
				ALU HC-NFE	900–1,300 m/min
		Brass, copper, zinc	Coarse stock removal	ALLROUND	450–750 m/min
				ALLROUND HC-FEP	450–900 m/min
				ALU	600–1,100 m/min
				ALU HC-NFE	600–1,300 m/min
				NON-FERROUS	450–600 m/min
			Fine stock removal	ALU	900–1,100 m/min
				ALU HC-NFE	900–1,300 m/min
	Hard non-ferrous metals	Titanium/titanium alloys, hard aluminium alloys (high Si content)	Coarse stock removal	ALLROUND	450–600 m/min
				ALLROUND HC-FEP	450–750 m/min
				INOX	250–450 m/min
				INOX HC-STS	250–600 m/min
		Hard titanium alloys	Coarse stock removal	TITANIUM	250–450 m/min
		Bronze	Coarse stock removal	ALLROUND	450–600 m/min
				ALLROUND HC-FEP	450–750 m/min
				ALU	600–900 m/min
				ALU HC-NFE	600–1,300 m/min
				NON-FERROUS	600–900 m/min
			Fine stock removal	ALU	900–1,100 m/min
				ALU HC-NFE	900–1,300 m/min
Cast iron	Grey cast iron, white cast iron	Cast iron with flake graphite EN-GJL (GG), with nodular graphite/nodular cast iron EN-GJS (GGG), white annealed cast iron EN-GJMW (GTW), black annealed cast iron EN-GJMB (GTS)	Coarse stock removal	ALLROUND	450–900 m/min
				CAST	450–750 m/min
Plastics, other materials	Thermoplastics, Fibre-reinforced plastics (GRP/CRP)		Coarse stock removal	NON-FERROUS	600–1,100 m/min
				ALU	
				ALU HC-NFE	600–1,300 m/min
				PLAST	450–900 m/min
				FVK	
			Fine stock removal	ALU	600–1,100 m/min
				ALU HC-NFE	600–1,300 m/min
				FVKS	450–900 m/min

TC burrs
Cutting speeds – burrs for special applications

PFERD TOOLS

① Coarse stock removal			② Used for	③ Cut	④ Cutting speed
Steel, cast steel	Steels up to 1,200 N/mm² (below 38 HRC)	Construction steels, carbon steels, tool steels, non-alloyed steels, case-hardened steels, cast steel, tempering steels	Coarse stock removal with impact load	TOUGH	250–600 m/min
				TOUGH-S	
			Work on edges	3, 3 PLUS, SP	450–600 m/min
				3 HC-FEP, 3 PLUS HC-FEP	450–750 m/min
				EDGE	600–900 m/min
			Fine stock removal	MICRO	600–750 m/min
				MICRO HC-FEP	600–900 m/min
	Hardened, heat-treated steels over 1,200 N/mm² (over 38 HRC)	Tool steels, tempering steels, alloyed steels, cast steel	Coarse stock removal with impact load	TOUGH	250–350 m/min
				TOUGH-S	
			Work on edges	3, 3 PLUS, SP	250–350 m/min
				3 HC-FEP, 3 PLUS HC-FEP	250–450 m/min
				5	350–450 m/min
				5 HC-FEP	350–600 m/min
				EDGE	600–750 m/min
			Fine stock removal	MICRO	450–600 m/min
				MICRO HC-FEP	450–750 m/min
Stainless steel (INOX)	Rust and acid-resistant steels	Austenitic and ferritic stainless steels	Work on edges	3, 3 PLUS, SP	250–350 m/min
				3 HC-FEP, 3 PLUS HC-FEP	250–450 m/min
				5	350–450 m/min
				5 HC-FEP	350–600 m/min
			Fine stock removal	MICRO	450–600 m/min
				MICRO HC-FEP	450–750 m/min
Non-ferrous metals	Soft non-ferrous metals	Soft aluminium alloys	Work on edges	EDGE ALU	900–1,100 m/min
		Brass, copper, zinc	Work on edges	3, 3 PLUS, SP	600–900 m/min
				3 HC-FEP, 3 PLUS HC-FEP	600–1,100 m/min
				EDGE ALU	900–1,100 m/min
				EDGE	600–900 m/min
	Hard non-ferrous metals	Bronze, hard aluminium alloys (high Si content)	Work on edges	3, 3 PLUS	250–450 m/min
				3 HC-FEP, 3 PLUS HC-FEP	250–600 m/min
				EDGE ALU	900–1,100 m/min
				EDGE	250–450 m/min
			Fine stock removal	MICRO	450–600 m/min
				MICRO HC-FEP	450–750 m/min
		Titanium/titanium alloys	Work on edges	SP	250–450 m/min
				EDGE	
			Fine stock removal	MICRO	450–600 m/min
				MICRO HC-FEP	450–750 m/min
	High-temperature-resistant materials	Nickel-based and cobalt-based alloys (engine and turbine construction)	Work on edges	5	350–600 m/min
				5 HC-FEP	350–750 m/min
				EDGE	250–450 m/min
			Fine stock removal	MICRO	450–600 m/min
				MICRO HC-FEP	450–750 m/min
Cast iron	Grey cast iron, white cast iron	Cast iron with flake graphite EN-GJL (GG), with nodular graphite/nodular cast iron EN-GJS (GGG), white annealed cast iron EN-GJMW (GTW), black annealed cast iron EN-GJMB (GTS)	Coarse stock removal with impact load	TOUGH	250–600 m/min
				TOUGH-S	
			Work on edges	3, 3 PLUS, SP	450–600 m/min
				3 HC-FEP, 3 PLUS HC-FEP	450–750 m/min
			Fine stock removal	MICRO	600–750 m/min
				MICRO HC-FEP	600–900 m/min
Plastics, other materials	Fibre-reinforced plastics (GRP/CRP), thermoplastics		Work on edges	EDGE ALU	750–1,100 m/min

TC burrs
Rotational speeds

Example:
TC burr,
ALLROUND cut,
Burr dia. 12 mm.
Coarse stock removal on steels up to 1,200 N/mm².
Cutting speed: 450–750 m/min
Rotational speed range:
12.000–20.000 RPM

⑤ Burr dia. [mm]	⑥ Cutting speeds [m/min]							
	250	350	450	600	750	900	1,100	1,300
	Rotational speeds [RPM]							
1.5	53,000	74,000	95,000	127,000	159,000	191,000	233,000	275,000
2	40,000	56,000	72,000	95,000	119,000	143,000	175,000	206,000
3	27,000	37,000	48,000	64,000	80,000	95,000	117,000	138,000
4	20,000	28,000	36,000	48,000	60,000	72,000	88,000	104,000
5	16,000	22,000	29,000	40,000	48,000	57,000	70,000	83,000
6	13,000	19,000	24,000	32,000	40,000	48,000	59,000	70,000
8	10,000	14,000	18,000	24,000	30,000	36,000	44,000	52,000
10	8,000	11,000	14,000	19,000	24,000	29,000	35,000	41,000
12	7,000	9,000	12,000	16,000	20,000	24,000	30,000	34,000
13	6,000	9,000	11,000	15,000	22,500	22,000	27,000	32,000
16	5,000	7,000	9,000	12,000	15,000	18,000	22,000	26,000
20	4,000	6,000	7,000	10,000	12,000	14,000	17,000	20,000
25	3,000	4,000	6,000	8,000	10,000	11,000	13,000	16,000

Tungsten carbide burrs with long shanks

Tungsten carbide burrs with long shanks are particularly well suited to working in hard-to-reach areas. PFERD TOOLS holds long-shank versions in stock for the respective product groups. Long-shank versions are available with the 3 PLUS, STEEL, Z5 and TOUGH cuts. All long shanks can be individually shortened. Tungsten carbide burrs with the designation GL 75 mm are made from solid carbide, which means they can only be shortened using diamond tools. Additional variants can be custom-made on request. In some applications, drive spindle extensions are an economic alternative to customized burrs with long shanks. For more information please see catalogue section 9.

Safety notes:

- Tungsten carbide burrs with a long steel shank SL should only be used with rigid clamping systems and drives. There is a risk that they may break off.
- When working with long shank lengths, it is crucial that the tool is in contact with the workpiece (or inserted in the bore or slot to be machined) before the drive system is turned on. As a rule, the tool must remain in contact with the workpiece for as long as the machine is running. Failure to observe this procedure may result in burr failure (bending) and hence an increased risk of accidents. If continuous contact between the tool and the workpiece is not guaranteed, the ⑧ maximum idling speeds stated in the table must not be exceeded.
- For safety reasons, the maximum application speeds ⑦ with contact with the workpiece require a reduction in the recommended rotational speed of tungsten carbide burrs with standard shanks. The reduced rotational speeds are stated in the table below.

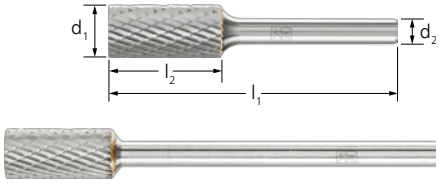
To determine the recommended rotational speed range [RPM], please proceed as follows:
① Select the required burr diameter.
⑦ For the maximum application speed [RPM] with contact with the workpiece, please refer to the right-hand side of the table.

Example:
TC burr, SL 150 mm,
cut 3 PLUS,
burr dia. 12 mm.
Coarse stock removal on steels up to 1,200 N/mm².
Maximum application speed with contact with the workpiece: 7,000 RPM

	⑧ Maximum idling speed [RPM] without contact with the workpiece		⑦ Maximum application speed [RPM] with contact with the workpiece	
	Shank length [mm]			
① Burr dia. [mm]	75	150	75	150
3	10,000	-	31,000	-
6	6,000	8,000	15,000	15,000
8	-	6,000	-	11,000
10	-	4,000	-	9,000
12	-	3,000	-	7,000

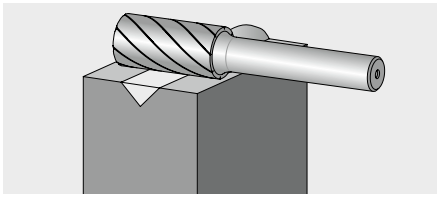
TC burrs for universal applications
For fine and coarse stock removal

PFERD TOOLS



Cylindrical shape ZYA without end cut

Cylindrical burrs according to DIN 8032 with cut conforming to DIN 8033 for general use on all materials. A good stock removal rate is achieved through optimum matching of tungsten carbide, geometry, cut and available coating.



Special features:
- Long tool life and high surface quality.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.
- Also available with the high-quality HICOAT coating for a much higher stock removal rate.

2

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	Cut		Item no.	Designation
3	13	3	43	3 PLUS HC-FEP	1	21201284	ZYA 0313/3 Z3 PLUS HC-FEP
				5 HC-FEP	1	21201254	ZYA 0313/3 Z5 HC-FEP
6	13	3	43	3 PLUS HC-FEP	1	21201484	ZYA 0613/3 Z3 PLUS HC-FEP
				5 HC-FEP	1	21201454	ZYA 0613/3 Z5 HC-FEP
2	10	3	40	3 PLUS	1	21201183	ZYA 0210/3 Z3 PLUS
				4	1	21201143	ZYA 0210/3 Z4
				5	1	21201153	ZYA 0210/3 Z5
3	13	3	43	3 PLUS	1	21201283	ZYA 0313/3 Z3 PLUS
				4	1	21201243	ZYA 0313/3 Z4
				5	1	21201253	ZYA 0313/3 Z5
6	7	3	37	3 PLUS	1	21201383	ZYA 0607/3 Z3 PLUS
				5	1	21201353	ZYA 0607/3 Z5
	13	3	43	3 PLUS	1	21201483	ZYA 0613/3 Z3 PLUS
				5	1	21201453	ZYA 0613/3 Z5
3	13	3	75	3 PLUS	1	21201287	ZYA 0313/3 Z3 PLUS GL 75
				5	1	*21201257*	ZYA 0313/3 Z5 GL 75
6	13	3	88	3 PLUS	1	*21201487*	ZYA 0613/3 Z3 PLUS SL 75
				5	1	*21201457*	ZYA 0613/3 Z5 SL 75
	16	6	55	3 HC-FEP	1	21101607	ZYA 0616/6 Z3 HC-FEP
				5 HC-FEP	1	21101657	ZYA 0616/6 Z5 HC-FEP
10	20	6	60	3 HC-FEP	1	21102107	ZYA 1020/6 Z3 HC-FEP
				5 HC-FEP	1	21102157	ZYA 1020/6 Z5 HC-FEP
12	25	6	65	3 HC-FEP	1	21101907	ZYA 1225/6 Z3 HC-FEP
				5 HC-FEP	1	21101957	ZYA 1225/6 Z5 HC-FEP
4	13	6	55	3 PLUS	1	21101526	ZYA 0413/6 Z3 PLUS
				4	1	21101546	ZYA 0413/6 Z4
				5	1	21101556	ZYA 0413/6 Z5
6	16	6	55	3	1	21101606	ZYA 0616/6 Z3
				3 PLUS	1	21101626	ZYA 0616/6 Z3 PLUS
				3 PLUS HC-FEP	1	21101624	ZYA 0616/6 Z3 PLUS HC-FEP
				4	1	21101646	ZYA 0616/6 Z4
				5	1	21101656	ZYA 0616/6 Z5
8	20	6	60	3	1	21101706	ZYA 0820/6 Z3
				3 PLUS	1	21101726	ZYA 0820/6 Z3 PLUS
				4	1	21101746	ZYA 0820/6 Z4
				5	1	21101756	ZYA 0820/6 Z5
10	13	6	53	3 PLUS	1	21101826	ZYA 1013/6 Z3 PLUS
				4	1	21101846	ZYA 1013/6 Z4
				5	1	21101856	ZYA 1013/6 Z5
	20	6	60	1	1	21102116	ZYA 1020/6 Z1
				3	1	21102106	ZYA 1020/6 Z3
				3 PLUS	1	21102126	ZYA 1020/6 Z3 PLUS
				3 PLUS HC-FEP	1	21102124	ZYA 1020/6 Z3 PLUS HC-FEP

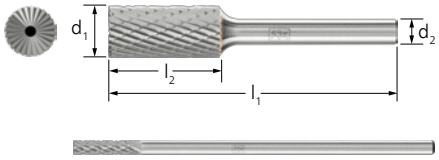
Continued on next page

New item
Discontinued product

TC burrs for universal applications
For fine and coarse stock removal

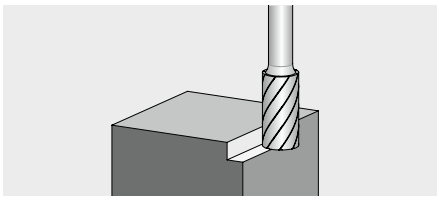
PFERD TOOLS

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	Cut		Item no.	Designation
10	20	6	60	4	1	21102146	ZYA 1020/6 Z4
				5	1	21102156	ZYA 1020/6 Z5
	25	6	65	3 PLUS	1	21102226	ZYA 1025/6 Z3 PLUS
				4	1	*21102246*	ZYA 1025/6 Z4
12	25	6	65	1	1	21101916	ZYA 1225/6 Z1
				3	1	21101906	ZYA 1225/6 Z3
				3 PLUS	1	21101926	ZYA 1225/6 Z3 PLUS
				3 PLUS HC-FEP	1	21101924	ZYA 1225/6 Z3 PLUS HC-FEP
				4	1	21101946	ZYA 1225/6 Z4
				5	1	21101956	ZYA 1225/6 Z5
16	25	6	65	3	1	21102006	ZYA 1625/6 Z3
				3 PLUS	1	21102026	ZYA 1625/6 Z3 PLUS
				4	1	21102046	ZYA 1625/6 Z4
6	16	6	172	3 PLUS	1	21101627	ZYA 0616/6 Z3 PLUS SL 150
8	20	6	170	3 PLUS	1	21101727	ZYA 0820/6 Z3 PLUS SL 150
10	20	6	170	3 PLUS	1	*21102127*	ZYA 1020/6 Z3 PLUS SL 150
12	25	6	175	3 PLUS	1	21101927	ZYA 1225/6 Z3 PLUS SL 150
		8	65	3 PLUS	1	21101928	ZYA 1225/8 Z3 PLUS
16	25	8	65	3 PLUS	1	21102028	ZYA 1625/8 Z3 PLUS



Cylindrical shape ZYAS with end cut

Cylindrical burr according to DIN 8032 with circumferential and end cut conforming to DIN 8033 for general use on all materials. A good stock removal rate is achieved through optimum matching of tungsten carbide, geometry, cut and available coating.



Special features:

- Long tool life and high surface quality.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.
- Also available with the high-quality HICOAT coating for a much higher stock removal rate.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	Cut		Item no.	Designation
3	13	3	43	3 PLUS HC-FEP	1	21200285	ZYAS 0313/3 Z3 PLUS HC-FEP
				5 HC-FEP	1	21200254	ZYAS 0313/3 Z5 HC-FEP
6	7	3	37	3 PLUS HC-FEP	1	21200384	ZYAS 0607/3 Z3 PLUS HC-FEP
	13	3	43	3 PLUS HC-FEP	1	21200485	ZYAS 0613/3 Z3 PLUS HC-FEP
				5 HC-FEP	1	21200454	ZYAS 0613/3 Z5 HC-FEP
2	10	3	40	3 PLUS	1	21200183	ZYAS 0210/3 Z3 PLUS
				4	1	21200143	ZYAS 0210/3 Z4
				5	1	21200153	ZYAS 0210/3 Z5
3	13	3	43	3 PLUS	1	21200283	ZYAS 0313/3 Z3 PLUS
				4	1	21200243	ZYAS 0313/3 Z4
				5	1	21200253	ZYAS 0313/3 Z5
6	7	3	37	3 PLUS	1	21200383	ZYAS 0607/3 Z3 PLUS
				5	1	21200353	ZYAS 0607/3 Z5
	13	3	43	3 PLUS	1	21200483	ZYAS 0613/3 Z3 PLUS
				4	1	21200443	ZYAS 0613/3 Z4
				5	1	21200453	ZYAS 0613/3 Z5
3	13	3	75	3 PLUS	1	21200287	ZYAS 0313/3 Z3 PLUS GL 75
				5	1	*21200257*	ZYAS 0313/3 Z5 GL 75
6	16	6	55	3 HC-FEP	1	21100207	ZYAS 0616/6 Z3 HC-FEP
				5 HC-FEP	1	21100257	ZYAS 0616/6 Z5 HC-FEP
10	20	6	60	3 HC-FEP	1	21100707	ZYAS 1020/6 Z3 HC-FEP

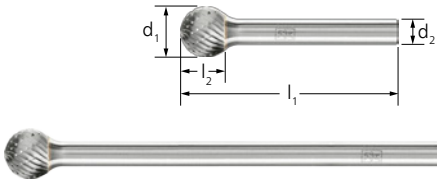
Continued on next page

New item
Discontinued product

TC burrs for universal applications
For fine and coarse stock removal

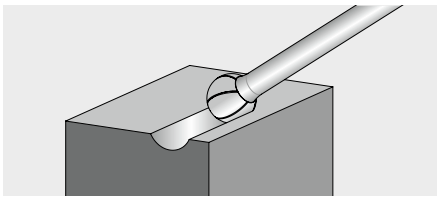
PFERD TOOLS

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	Cut		Item no.	Designation
10	20	6	60	5 HC-FEP	1	21100757	ZYAS 1020/6 Z5 HC-FEP
12	25	6	65	3 HC-FEP	1	21100507	ZYAS 1225/6 Z3 HC-FEP
				5 HC-FEP	1	21100557	ZYAS 1225/6 Z5 HC-FEP
4	13	6	55	3 PLUS	1	21100126	ZYAS 0413/6 Z3 PLUS
				4	1	*21100146*	ZYAS 0413/6 Z4
				5	1	21100156	ZYAS 0413/6 Z5
6	16	6	55	3	1	21100206	ZYAS 0616/6 Z3
				3 PLUS	1	21100226	ZYAS 0616/6 Z3 PLUS
				4	1	21100246	ZYAS 0616/6 Z4
				5	1	21100256	ZYAS 0616/6 Z5
8	20	6	60	3	1	21100306	ZYAS 0820/6 Z3
				3 PLUS	1	21100326	ZYAS 0820/6 Z3 PLUS
				4	1	21100346	ZYAS 0820/6 Z4
				5	1	21100356	ZYAS 0820/6 Z5
10	13	6	53	3 PLUS	1	21100426	ZYAS 1013/6 Z3 PLUS
	20	6	60	3	1	21100706	ZYAS 1020/6 Z3
				3 PLUS	1	21100726	ZYAS 1020/6 Z3 PLUS
				4	1	21100746	ZYAS 1020/6 Z4
				5	1	21100756	ZYAS 1020/6 Z5
	25	6	65	3 PLUS	1	21100826	ZYAS 1025/6 Z3 PLUS
				4	1	*21100846*	ZYAS 1025/6 Z4
12	25	6	65	3	1	21100506	ZYAS 1225/6 Z3
				3 PLUS	1	21100526	ZYAS 1225/6 Z3 PLUS
				4	1	21100546	ZYAS 1225/6 Z4
				5	1	21100556	ZYAS 1225/6 Z5
16	25	6	65	3	1	21100606	ZYAS 1625/6 Z3
				3 PLUS	1	21100626	ZYAS 1625/6 Z3 PLUS
				4	1	21100646	ZYAS 1625/6 Z4
				5	1	21100656	ZYAS 1625/6 Z5
12	25	8	65	3 PLUS	1	21100528	ZYAS 1225/8 Z3 PLUS



Ball shape KUD

Ball-shaped burr according to DIN 8032 with cut conforming to DIN 8033 for general use on all materials. A good stock removal rate is achieved through optimum matching of tungsten carbide, geometry, cut and available coating.



Special features:

- Long tool life and high surface quality.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.
- Also available with the high-quality HICOAT coating for a much higher stock removal rate.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	Cut		Item no.	Designation
3	2	3	33	3 PLUS HC-FEP	1	21211085	KUD 0302/3 Z3 PLUS HC-FEP
				5 HC-FEP	1	21211054	KUD 0302/3 Z5 HC-FEP
4	3	3	45	3 PLUS HC-FEP	1	21212585	KUD 0403/3 Z3 PLUS HC-FEP
				5 HC-FEP	1	21212554	KUD 0403/3 Z5 HC-FEP
6	5	3	35	3 PLUS HC-FEP	1	21213085	KUD 0605/3 Z3 PLUS HC-FEP
				5 HC-FEP	1	21213054	KUD 0605/3 Z5 HC-FEP
1.5	1	3	33	3 PLUS	1	21211013	KUD 01,51/3 Z3 PLUS
				5	1	21211015	KUD 01,51/3 Z5
2	1.5	3	33	3 PLUS	1	21211023	KUD 021,5/3 Z3 PLUS
				5	1	21211025	KUD 021,5/3 Z5

Continued on next page

New item
Discontinued product

TC burrs for universal applications
For fine and coarse stock removal

PFERD TOOLS

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	Cut		Item no.	Designation
3	2	3	33	3 PLUS	1	21211083	KUD 0302/3 Z3 PLUS
				4	1	21211043	KUD 0302/3 Z4
				5	1	21211053	KUD 0302/3 Z5
4	3	3	34	3 PLUS	1	21212583	KUD 0403/3 Z3 PLUS
				4	1	21212543	KUD 0403/3 Z4
				5	1	21212553	KUD 0403/3 Z5
6	5	3	35	3 PLUS	1	21213083	KUD 0605/3 Z3 PLUS
				4	1	21213043	KUD 0605/3 Z4
				5	1	21213053	KUD 0605/3 Z5
3	2	3	75	3 PLUS	1	21211087	KUD 0302/3 Z3 PLUS GL 75
				5	1	*21211057*	KUD 0302/3 Z5 GL 75
6	5	3	80	3 PLUS	1	21213087	KUD 0605/3 Z3 PLUS SL 75
				5	1	21213057	KUD 0605/3 Z5 SL 75
		6	45	3 HC-FEP	1	21112537	KUD 0605/6 Z3 HC-FEP
				5 HC-FEP	1	21112557	KUD 0605/6 Z5 HC-FEP
10	9	6	49	3 HC-FEP	1	21112707	KUD 1009/6 Z3 HC-FEP
				5 HC-FEP	1	21112757	KUD 1009/6 Z5 HC-FEP
12	10	6	51	3 HC-FEP	1	21112807	KUD 1210/6 Z3 HC-FEP
				5 HC-FEP	1	21112857	KUD 1210/6 Z5 HC-FEP
16	14	6	54	3 HC-FEP	1	21112907	KUD 1614/6 Z3 HC-FEP
				5 HC-FEP	1	21112957	KUD 1614/6 Z5 HC-FEP
4	3	6	45	3 PLUS	1	21112026	KUD 0403/6 Z3 PLUS
				5	1	21112056	KUD 0403/6 Z5
6	5	6	45	1	1	*21112516*	KUD 0605/6 Z1
				3	1	21112536	KUD 0605/6 Z3
				3 PLUS	1	21112526	KUD 0605/6 Z3 PLUS
				3 PLUS HC-FEP	1	21112524	KUD 0605/6 Z3 PLUS HC-FEP
				4	1	21112546	KUD 0605/6 Z4
				5	1	21112556	KUD 0605/6 Z5
8	7	6	47	1	1	*21112616*	KUD 0807/6 Z1
				3	1	21112636	KUD 0807/6 Z3
				3 PLUS	1	21112626	KUD 0807/6 Z3 PLUS
				4	1	21112646	KUD 0807/6 Z4
				5	1	21112656	KUD 0807/6 Z5
10	9	6	49	1	1	21112716	KUD 1009/6 Z1
				3	1	21112706	KUD 1009/6 Z3
				3 PLUS	1	21112726	KUD 1009/6 Z3 PLUS
				3 PLUS HC-FEP	1	21112724	KUD 1009/6 Z3 PLUS HC-FEP
				4	1	21112746	KUD 1009/6 Z4
				5	1	21112756	KUD 1009/6 Z5
12	10	6	51	3	1	21112806	KUD 1210/6 Z3
				3 PLUS	1	21112826	KUD 1210/6 Z3 PLUS
				3 PLUS HC-FEP	1	21112824	KUD 1210/6 Z3 PLUS HC-FEP
				4	1	21112846	KUD 1210/6 Z4
				5	1	21112856	KUD 1210/6 Z5
16	14	6	54	1	1	21112916	KUD 1614/6 Z1
				3 PLUS	1	21112926	KUD 1614/6 Z3 PLUS
				4	1	21112946	KUD 1614/6 Z4
				5	1	21112956	KUD 1614/6 Z5
20	18	6	58	3	1	21113006	KUD 2018/6 Z3
				3 PLUS	1	21113026	KUD 2018/6 Z3 PLUS
6	5	6	155	3 PLUS	1	21112527	KUD 0605/6 Z3 PLUS SL 150
8	7	6	157	3 PLUS	1	21112627	KUD 0807/6 Z3 PLUS SL 150
10	9	6	159	3 PLUS	1	21112727	KUD 1009/6 Z3 PLUS SL 150

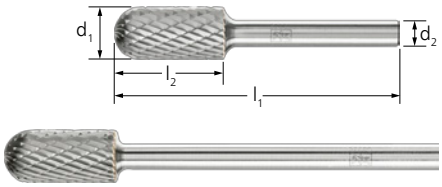
Continued on next page

New item
Discontinued product

TC burrs for universal applications
For fine and coarse stock removal

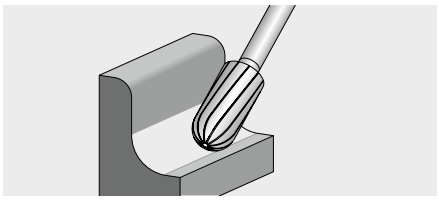
PFERD TOOLS

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	Cut		Item no.	Designation
12	10	6	160	3 PLUS	1	21112827	KUD 1210/6 Z3 PLUS SL 150
		8	51	3 PLUS	1	21112828	KUD 1210/8 Z3 PLUS
16	14	8	54	3 PLUS	1	*21112928*	KUD 1614/8 Z3 PLUS
20	18	8	58	3 PLUS	1	21113028	KUD 2018/8 Z3 PLUS



Cylindrical shape with radius end WRC

Cylindrical burr with radius end according to DIN 8032 with cut conforming to DIN 8033 for general use on all materials. A good stock removal rate is achieved through optimum matching of tungsten carbide, geometry, cut and available coating.



Special features:
- Long tool life and high surface quality.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.
- Also available with the high-quality HICOAT coating for a much higher stock removal rate.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	Cut		Item no.	Designation
3	13	3	43	3 PLUS HC-FEP	1	21205185	WRC 0313/3 Z3 PLUS HC-FEP
				5 HC-FEP	1	21205154	WRC 0313/3 Z5 HC-FEP
6	13	3	43	3 PLUS HC-FEP	1	21205285	WRC 0613/3 Z3 PLUS HC-FEP
				5 HC-FEP	1	21205254	WRC 0613/3 Z5 HC-FEP
2	10	3	40	3 PLUS	1	21205083	WRC 0210/3 Z3 PLUS
				4	1	21205043	WRC 0210/3 Z4
				5	1	21205053	WRC 0210/3 Z5
3	13	3	43	3 PLUS	1	21205183	WRC 0313/3 Z3 PLUS
				4	1	21205143	WRC 0313/3 Z4
				5	1	21205153	WRC 0313/3 Z5
6	13	3	43	3 PLUS	1	21205283	WRC 0613/3 Z3 PLUS
				4	1	21205243	WRC 0613/3 Z4
				5	1	21205253	WRC 0613/3 Z5
3	13	3	75	3 PLUS	1	21205187	WRC 0313/3 Z3 PLUS GL 75
				5	1	21205157	WRC 0313/3 Z5 GL 75
6	13	3	88	3 PLUS	1	21205287	WRC 0613/3 Z3 PLUS SL 75
				5	1	21205257	WRC 0613/3 Z5 SL 75
	16	6	55	3 HC-FEP	1	21105007	WRC 0616/6 Z3 HC-FEP
				5 HC-FEP	1	21105057	WRC 0616/6 Z5 HC-FEP
10	20	6	60	3 HC-FEP	1	21105207	WRC 1020/6 Z3 HC-FEP
				5 HC-FEP	1	21105257	WRC 1020/6 Z5 HC-FEP
12	25	6	65	3 HC-FEP	1	21105307	WRC 1225/6 Z3 HC-FEP
				5 HC-FEP	1	21105357	WRC 1225/6 Z5 HC-FEP
4	13	6	55	3 PLUS	1	21104926	WRC 0413/6 Z3 PLUS
				4	1	21104946	WRC 0413/6 Z4
6	16	6	55	1	1	21105016	WRC 0616/6 Z1
				3	1	21105006	WRC 0616/6 Z3
				3 PLUS	1	21105026	WRC 0616/6 Z3 PLUS
				3 PLUS HC-FEP	1	21105024	WRC 0616/6 Z3 PLUS HC-FEP
				4	1	21105046	WRC 0616/6 Z4
				5	1	21105056	WRC 0616/6 Z5
8	20	6	60	1	1	*21105116*	WRC 0820/6 Z1
				3	1	21105106	WRC 0820/6 Z3
				3 PLUS	1	21105126	WRC 0820/6 Z3 PLUS
				4	1	21105146	WRC 0820/6 Z4
				5	1	21105156	WRC 0820/6 Z5

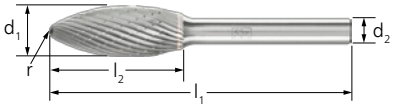
Continued on next page

New item
Discontinued product

TC burrs for universal applications
For fine and coarse stock removal

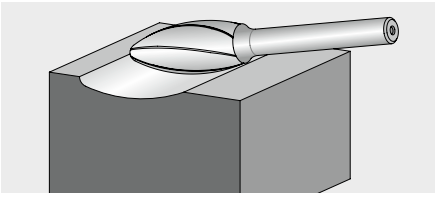
PFERD TOOLS

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	Cut		Item no.	Designation
10	20	6	60	1	1	21105216	WRC 1020/6 Z1
				3	1	21105206	WRC 1020/6 Z3
				3 PLUS	1	21105226	WRC 1020/6 Z3 PLUS
				3 PLUS HC-FEP	1	21105224	WRC 1020/6 Z3 PLUS HC-FEP
				4	1	21105246	WRC 1020/6 Z4
				5	1	21105256	WRC 1020/6 Z5
	25	6	65	3	1	*21105506*	WRC 1025/6 Z3
				3 PLUS	1	21105526	WRC 1025/6 Z3 PLUS
				4	1	21105546	WRC 1025/6 Z4
12	25	6	65	1	1	21105316	WRC 1225/6 Z1
				3	1	21105306	WRC 1225/6 Z3
				3 PLUS	1	21105326	WRC 1225/6 Z3 PLUS
				3 PLUS HC-FEP	1	21105324	WRC 1225/6 Z3 PLUS HC-FEP
				4	1	21105346	WRC 1225/6 Z4
				5	1	21105356	WRC 1225/6 Z5
16	25	6	65	1	1	*21105416*	WRC 1625/6 Z1
				3	1	21105406	WRC 1625/6 Z3
				3 PLUS	1	21105426	WRC 1625/6 Z3 PLUS
				4	1	21105446	WRC 1625/6 Z4
6	16	6	172	3 PLUS	1	21105027	WRC 0616/6 Z3 PLUS SL 150
8	20	6	170	3 PLUS	1	21105127	WRC 0820/6 Z3 PLUS SL 150
10	20	6	170	3 PLUS	1	21105227	WRC 1020/6 Z3 PLUS SL 150
12	25	6	175	3 PLUS	1	21105327	WRC 1225/6 Z3 PLUS SL 150
10	20	8	60	3 PLUS	1	21105228	WRC 1020/8 Z3 PLUS
12	25	8	65	3 PLUS	1	21105328	WRC 1225/8 Z3 PLUS
				4	1	*21105348*	WRC 1225/8 Z4
16	25	8	65	3 PLUS	1	21105428	WRC 1625/8 Z3 PLUS



Flame-shaped B

Flame-shaped burr according to ISO 7755/8 with cut conforming to DIN 8033 for general use on all materials. A good stock removal rate is achieved through optimum matching of tungsten carbide, geometry, cut and available coating.



Special features:
- Long tool life and high surface quality.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.
- Also available with the high-quality HICOAT coating for a much higher stock removal rate.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	r [mm]	Cut		Item no.	Designation
3	7	3	37	0.8	3 PLUS HC-FEP	1	21202534	B 0307/3 Z3 PLUS HC-FEP
					5 HC-FEP	1	21202554	B 0307/3 Z5 HC-FEP
6	13	3	43	1	3 PLUS HC-FEP	1	21203634	B 0613/3 Z3 PLUS HC-FEP
					5 HC-FEP	1	21203654	B 0613/3 Z5 HC-FEP
12	30	6	70	2.1	3 HC-FEP	1	21103307	B 1230/6 Z3 HC-FEP
3	7	3	37	0.8	3 PLUS	1	21202533	B 0307/3 Z3 PLUS
					5	1	21202553	B 0307/3 Z5
6	13	3	43	1	3 PLUS	1	21203633	B 0613/3 Z3 PLUS
					5	1	21203653	B 0613/3 Z5
8	20	6	60	1.5	3	1	21103106	B 0820/6 Z3
					3 PLUS	1	21103126	B 0820/6 Z3 PLUS
10	25	6	65	1.7	3 PLUS	1	21103226	B 1025/6 Z3 PLUS
					3 PLUS HC-FEP	1	21103224	B 1025/6 Z3 PLUS HC-FEP

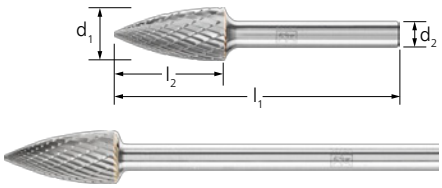
Continued on next page

New item
Discontinued product

TC burrs for universal applications
For fine and coarse stock removal

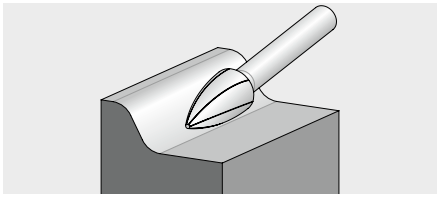
PFERD TOOLS

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	r [mm]	Cut		Item no.	Designation
12	30	6	70	2.1	3	1	21103306	B 1230/6 Z3
					3 PLUS	1	21103326	B 1230/6 Z3 PLUS
					3 PLUS HC-FEP	1	21103324	B 1230/6 Z3 PLUS HC-FEP
16	35	6	75	2.6	3 PLUS	1	21103426	B 1635/6 Z3 PLUS
8	20	6	170	1.5	3 PLUS	1	21103127	B 0820/6 Z3 PLUS SL 150
10	25	6	175	1.7	3 PLUS	1	21103287	B 1025/6 Z3 PLUS SL 150
12	30	6	180	2.1	3 PLUS	1	21103327	B 1230/6 Z3 PLUS SL 150



Pointed tree shape SPG

Pointed tree-shaped burr according to DIN 8032 with cut conforming to DIN 8033 and flattened tip for general use on all materials. A good stock removal rate is achieved through optimum matching of tungsten carbide, geometry, cut and available coating.



Special features:

- Long tool life and high surface quality.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.
- Also available with the high-quality HICOAT coating for a much higher stock removal rate.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	Cut		Item no.	Designation
3	7	3	37	3 PLUS HC-FEP	1	21222585	SPG 0307/3 Z3 PLUS HC-FEP
				5 HC-FEP	1	21222554	SPG 0307/3 Z5 HC-FEP
	13	3	43	3 PLUS HC-FEP	1	21222685	SPG 0313/3 Z3 PLUS HC-FEP
				5 HC-FEP	1	21222654	SPG 0313/3 Z5 HC-FEP
6	13	3	43	3 PLUS HC-FEP	1	21222785	SPG 0613/3 Z3 PLUS HC-FEP
				5 HC-FEP	1	21222754	SPG 0613/3 Z5 HC-FEP
3	7	3	37	3 PLUS	1	21222583	SPG 0307/3 Z3 PLUS
				4	1	*21222543*	SPG 0307/3 Z4
				5	1	21222553	SPG 0307/3 Z5
	13	3	43	3 PLUS	1	21222683	SPG 0313/3 Z3 PLUS
				4	1	21222643	SPG 0313/3 Z4
				5	1	21222653	SPG 0313/3 Z5
6	13	3	43	3 PLUS	1	21222783	SPG 0613/3 Z3 PLUS
				4	1	21222743	SPG 0613/3 Z4
				5	1	21222753	SPG 0613/3 Z5
3	13	3	75	3 PLUS	1	21222687	SPG 0313/3 Z3 PLUS GL 75
				5	1	21222657	SPG 0313/3 Z5 GL 75
6	13	3	88	3 PLUS	1	*21222787*	SPG 0613/3 Z3 PLUS SL 75
				5	1	*21222757*	SPG 0613/3 Z5 SL 75
	18	6	55	3 HC-FEP	1	21122507	SPG 0618/6 Z3 HC-FEP
				5 HC-FEP	1	21122557	SPG 0618/6 Z5 HC-FEP
10	20	6	60	3 HC-FEP	1	21122607	SPG 1020/6 Z3 HC-FEP
				5 HC-FEP	1	21122657	SPG 1020/6 Z5 HC-FEP
12	25	6	65	3 HC-FEP	1	21122707	SPG 1225/6 Z3 HC-FEP
				5 HC-FEP	1	21122757	SPG 1225/6 Z5 HC-FEP
6	18	6	55	1	1	*21122516*	SPG 0618/6 Z1
				3	1	21122506	SPG 0618/6 Z3
				3 PLUS	1	21122526	SPG 0618/6 Z3 PLUS
				3 PLUS HC-FEP	1	21122524	SPG 0618/6 Z3 PLUS HC-FEP
				4	1	21122546	SPG 0618/6 Z4
				5	1	21122556	SPG 0618/6 Z5
8	20	6	60	3 PLUS	1	21122589	SPG 0820/6 Z3 PLUS

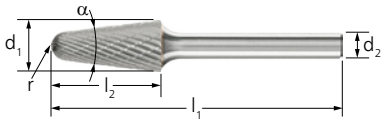
Continued on next page

New item
Discontinued product

TC burrs for universal applications
For fine and coarse stock removal

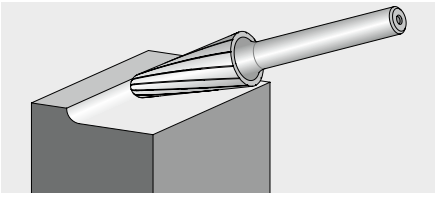
PFERD TOOLS

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	Cut		Item no.	Designation
8	20	6	60	5	1	21122595	SPG 0820/6 Z5
10	20	6	60	1	1	21122616	SPG 1020/6 Z1
				3	1	21122606	SPG 1020/6 Z3
				3 PLUS	1	21122626	SPG 1020/6 Z3 PLUS
				3 PLUS HC-FEP	1	21122624	SPG 1020/6 Z3 PLUS HC-FEP
				4	1	21122646	SPG 1020/6 Z4
				5	1	21122656	SPG 1020/6 Z5
12	25	6	65	1	1	21122716	SPG 1225/6 Z1
				3	1	21122706	SPG 1225/6 Z3
				3 PLUS	1	21122726	SPG 1225/6 Z3 PLUS
				3 PLUS HC-FEP	1	21122724	SPG 1225/6 Z3 PLUS HC-FEP
				4	1	21122746	SPG 1225/6 Z4
				5	1	21122756	SPG 1225/6 Z5
	30	6	70	1	1	*21123416*	SPG 1230/6 Z1
				3	1	21123406	SPG 1230/6 Z3
				3 PLUS	1	21123426	SPG 1230/6 Z3 PLUS
				4	1	21123446	SPG 1230/6 Z4
				5	1	*21123456*	SPG 1230/6 Z5
16	30	6	70	1	1	21122816	SPG 1630/6 Z1
				3	1	21122806	SPG 1630/6 Z3
				3 PLUS	1	21122826	SPG 1630/6 Z3 PLUS
				4	1	21122846	SPG 1630/6 Z4
6	18	6	172	3 PLUS	1	21122527	SPG 0618/6 Z3 PLUS SL 150
8	20	6	170	3 PLUS	1	21122597	SPG 0820/6 Z3 PLUS SL 150
10	20	6	170	3 PLUS	1	21122627	SPG 1020/6 Z3 PLUS SL 150
12	25	6	175	3 PLUS	1	21122727	SPG 1225/6 Z3 PLUS SL 150
10	20	8	60	3 PLUS	1	21122628	SPG 1020/8 Z3 PLUS
12	25	8	65	3 PLUS	1	21122728	SPG 1225/8 Z3 PLUS
16	30	8	70	1	1	*21122818*	SPG 1630/8 Z1
				3 PLUS	1	*21122828*	SPG 1630/8 Z3 PLUS



Conical shape with radius end KEL

Conical burr with round radius end according to DIN 8032 and cut conforming to DIN 8033 for general use on all materials. A good stock removal rate is achieved through optimum matching of tungsten carbide, geometry, cut and available coating.



Special features:
- Long tool life and high surface quality.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.
- Also available with the high-quality HICOAT coating for a much higher stock removal rate.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	α [°]	r [mm]	Cut		Item no.	Designation
10	20	6	60	14	2.9	3 HC-FEP	1	21125007	KEL 1020/6 Z3 HC-FEP
12	30	6	70	14	2.6	3 HC-FEP	1	21125207	KEL 1230/6 Z3 HC-FEP
						5 HC-FEP	1	21125257	KEL 1230/6 Z5 HC-FEP
8	20	6	60	16	1.25	3 PLUS	1	21124996	KEL 0820/6 Z3 PLUS
						4	1	21124994	KEL 0820/6 Z4
10	20	6	60	14	2.9	3	1	21125006	KEL 1020/6 Z3
						3 PLUS	1	21125026	KEL 1020/6 Z3 PLUS
						3 PLUS HC-FEP	1	21125024	KEL 1020/6 Z3 PLUS HC-FEP
						4	1	21125046	KEL 1020/6 Z4
12	25	6	65	14	3.3	3	1	*21125106*	KEL 1225/6 Z3

Continued on next page

New item
Discontinued product

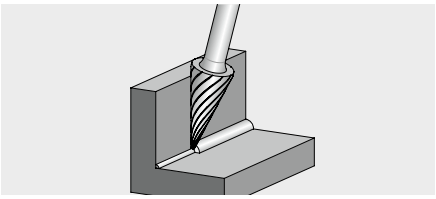
TC burrs for universal applications
For fine and coarse stock removal

PFERD TOOLS

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	α [°]	r [mm]	Cut		Item no.	Designation
12	25	6	65	14	3.3	3 PLUS	1	21125126	KEL 1225/6 Z3 PLUS
						3 PLUS HC-FEP	1	21125124	KEL 1225/6 Z3 PLUS HC-FEP
						4	1	21125146	KEL 1225/6 Z4
	30	6	70	14	2.6	1	1	21125216	KEL 1230/6 Z1
						3	1	21125206	KEL 1230/6 Z3
						3 PLUS	1	21125226	KEL 1230/6 Z3 PLUS
						3 PLUS HC-FEP	1	21125224	KEL 1230/6 Z3 PLUS HC-FEP
						4	1	21125246	KEL 1230/6 Z4
						5	1	21125256	KEL 1230/6 Z5
16	30	6	70	14	4.8	3 PLUS	1	21125326	KEL 1630/6 Z3 PLUS
						4	1	21125346	KEL 1630/6 Z4
12	25	8	65	14	3.3	3 PLUS	1	21125128	KEL 1225/8 Z3 PLUS
	30	8	70	14	2.6	3 PLUS	1	21125228	KEL 1230/8 Z3 PLUS

Conical pointed shape SKM

Conical pointed burr according to DIN 8032 with cut conforming to DIN 8033 and flattened tip for general use on all materials. A good stock removal rate is achieved through optimum matching of tungsten carbide, geometry, cut and available coating.



Special features:
- Long tool life and high surface quality.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.
- Also available with the high-quality HICOAT coating for a much higher stock removal rate.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	α [°]	Cut		Item no.	Designation
3	7	3	37	14	3 PLUS HC-FEP	1	21214084	SKM 0307/3 Z3 PLUS HC-FEP
					5 HC-FEP	1	21214054	SKM 0307/3 Z5 HC-FEP
	11	3	41	14	3 PLUS HC-FEP	1	21214184	SKM 0311/3 Z3 PLUS HC-FEP
					5 HC-FEP	1	21214154	SKM 0311/3 Z5 HC-FEP
6	13	3	43	25	3 PLUS HC-FEP	1	21215084	SKM 0613/3 Z3 PLUS HC-FEP
					5 HC-FEP	1	21215054	SKM 0613/3 Z5 HC-FEP
3	7	3	37	21	3 PLUS	1	21214083	SKM 0307/3 Z3 PLUS
					5	1	21214053	SKM 0307/3 Z5
	11	3	41	14	3 PLUS	1	21214183	SKM 0311/3 Z3 PLUS
					4	1	21214143	SKM 0311/3 Z4
					5	1	21214153	SKM 0311/3 Z5
6	13	3	43	25	3 PLUS	1	21215083	SKM 0613/3 Z3 PLUS
					5	1	21215053	SKM 0613/3 Z5
	18	6	55	18	3 HC-FEP	1	21115007	SKM 0618/6 Z3 HC-FEP
					5 HC-FEP	1	21115057	SKM 0618/6 Z5 HC-FEP
10	20	6	60	28	3 HC-FEP	1	21115107	SKM 1020/6 Z3 HC-FEP
					5 HC-FEP	1	21115157	SKM 1020/6 Z5 HC-FEP
12	25	6	65	26	3 HC-FEP	1	21115207	SKM 1225/6 Z3 HC-FEP
					5 HC-FEP	1	21115257	SKM 1225/6 Z5 HC-FEP
6	18	6	55	18	1	1	21115016	SKM 0618/6 Z1
					3	1	21115006	SKM 0618/6 Z3
					3 PLUS	1	21115026	SKM 0618/6 Z3 PLUS
					3 PLUS HC-FEP	1	21115024	SKM 0618/6 Z3 PLUS HC-FEP
					4	1	21115046	SKM 0618/6 Z4
					5	1	21115056	SKM 0618/6 Z5
10	20	6	60	28	3	1	21115106	SKM 1020/6 Z3

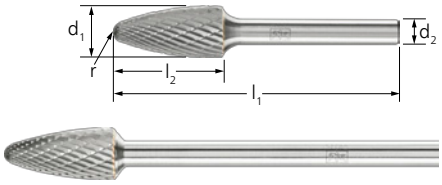
Continued on next page

New item

TC burrs for universal applications
For fine and coarse stock removal

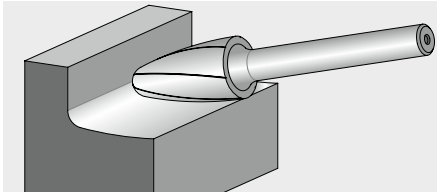
PFERD TOOLS

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	α [°]	Cut		Item no.	Designation
10	20	6	60	28	3 PLUS	1	21115126	SKM 1020/6 Z3 PLUS
					3 PLUS HC-FEP	1	21115124	SKM 1020/6 Z3 PLUS HC-FEP
					4	1	21115146	SKM 1020/6 Z4
					5	1	21115156	SKM 1020/6 Z5
12	25	6	65	26	1	1	21115216	SKM 1225/6 Z1
					3	1	21115206	SKM 1225/6 Z3
					3 PLUS	1	21115226	SKM 1225/6 Z3 PLUS
					3 PLUS HC-FEP	1	21115224	SKM 1225/6 Z3 PLUS HC-FEP
					4	1	21115246	SKM 1225/6 Z4
					5	1	21115256	SKM 1225/6 Z5
		8	65	26	3 PLUS	1	21115228	SKM 1225/8 Z3 PLUS



Tree shape with radius end RBF

Tree-shaped burr with radius end according to DIN 8032 with cut conforming to DIN 8033 for general use on all materials. A good stock removal rate is achieved through optimum matching of tungsten carbide, geometry, cut and available coating.



Special features:
- Long tool life and high surface quality.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.
- Also available with the high-quality HICOAT coating for a much higher stock removal rate.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	r [mm]	Cut		Item no.	Designation
3	7	3	37	0.75	3 PLUS HC-FEP	1	21217584	RBF 0307/3 Z3 PLUS HC-FEP
					5 HC-FEP	1	21217554	RBF 0307/3 Z5 HC-FEP
	13	3	43	0.75	3 PLUS HC-FEP	1	21218134	RBF 0313/3 Z3 PLUS HC-FEP
					5 HC-FEP	1	21218154	RBF 0313/3 Z5 HC-FEP
6	13	3	43	1.5	3 PLUS HC-FEP	1	21230085	RBF 0613/3 Z3 PLUS HC-FEP
					5 HC-FEP	1	21230054	RBF 0613/3 Z5 HC-FEP
3	7	3	37	0.75	3 PLUS	1	21217583	RBF 0307/3 Z3 PLUS
					5	1	21217553	RBF 0307/3 Z5
	13	3	43	0.75	3 PLUS	1	21218133	RBF 0313/3 Z3 PLUS
					5	1	21218155	RBF 0313/3 Z5
6	13	3	43	1.5	3 PLUS	1	21230083	RBF 0613/3 Z3 PLUS
					4	1	21230043	RBF 0613/3 Z4
					5	1	21230053	RBF 0613/3 Z5
3	7	3	75	0.75	3 PLUS	1	21217587	RBF 0307/3 Z3 PLUS GL 75
					5	1	21217557	RBF 0307/3 Z5 GL 75
6	13	3	88	1.5	3 PLUS	1	21230087	RBF 0613/3 Z3 PLUS SL 75
					5	1	21230057	RBF 0613/3 Z5 SL 75
	18	6	55	1.5	3 HC-FEP	1	21117307	RBF 0618/6 Z3 HC-FEP
					5 HC-FEP	1	21117357	RBF 0618/6 Z5 HC-FEP
10	20	6	60	2.5	3 HC-FEP	1	21117707	RBF 1020/6 Z3 HC-FEP
					5 HC-FEP	1	21117757	RBF 1020/6 Z5 HC-FEP
12	25	6	65	2.5	3 HC-FEP	1	21117807	RBF 1225/6 Z3 HC-FEP
					5 HC-FEP	1	21117857	RBF 1225/6 Z5 HC-FEP
6	18	6	55	1.5	3	1	21117306	RBF 0618/6 Z3
					3 PLUS	1	21117326	RBF 0618/6 Z3 PLUS
					3 PLUS HC-FEP	1	21117324	RBF 0618/6 Z3 PLUS HC-FEP
					4	1	21117346	RBF 0618/6 Z4
					5	1	21117356	RBF 0618/6 Z5
8	20	6	60	1.2	3	1	21117606	RBF 0820/6 Z3

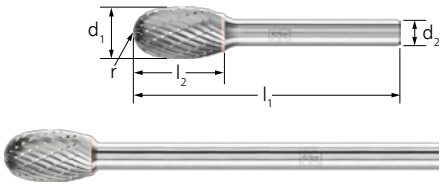
Continued on next page

New item

TC burrs for universal applications
For fine and coarse stock removal

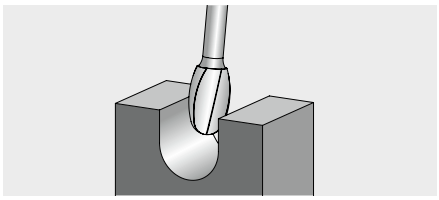
PFERD TOOLS

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	r [mm]	Cut		Item no.	Designation
8	20	6	60	1.2	3 PLUS	1	21117626	RBF 0820/6 Z3 PLUS
					4	1	21117646	RBF 0820/6 Z4
10	20	6	60	2.5	3	1	21117706	RBF 1020/6 Z3
					3 PLUS	1	21117726	RBF 1020/6 Z3 PLUS
					3 PLUS HC-FEP	1	21117724	RBF 1020/6 Z3 PLUS HC-FEP
					4	1	21117746	RBF 1020/6 Z4
					5	1	21117756	RBF 1020/6 Z5
12	25	6	65	2.5	1	1	21117816	RBF 1225/6 Z1
					3	1	21117806	RBF 1225/6 Z3
					3 PLUS	1	21117826	RBF 1225/6 Z3 PLUS
					3 PLUS HC-FEP	1	21117824	RBF 1225/6 Z3 PLUS HC-FEP
					4	1	21117846	RBF 1225/6 Z4
					5	1	21117856	RBF 1225/6 Z5
16	30	6	70	3.6	3	1	21117906	RBF 1630/6 Z3
					3 PLUS	1	21117926	RBF 1630/6 Z3 PLUS
					4	1	21117946	RBF 1630/6 Z4
6	18	6	172	1.5	3 PLUS	1	21117327	RBF 0618/6 Z3 PLUS SL 150
8	20	6	170	1.2	3 PLUS	1	21117627	RBF 0820/6 Z3 PLUS SL 150
10	20	6	170	2.5	3 PLUS	1	21117727	RBF 1020/6 Z3 PLUS SL 150
12	25	6	175	2.5	3 PLUS	1	21117827	RBF 1225/6 Z3 PLUS SL 150
		8	65	2.5	3 PLUS	1	21117828	RBF 1225/8 Z3 PLUS
16	30	8	70	3.6	3 PLUS	1	21117928	RBF 1630/8 Z3 PLUS



Oval shape TRE

Oval burr according to DIN 8032 with cut conforming to DIN 8033 for general use on all materials. A good stock removal rate is achieved through optimum matching of tungsten carbide, geometry, cut and available coating.



Special features:
- Long tool life and high surface quality.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.
- Also available with the high-quality HICOAT coating for a much higher stock removal rate.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	r [mm]	Cut		Item no.	Designation
3	7	3	37	1.2	3 PLUS HC-FEP	1	21210084	TRE 0307/3 Z3 PLUS HC-FEP
					5 HC-FEP	1	21210054	TRE 0307/3 Z5 HC-FEP
6	10	3	40	2.8	3 PLUS HC-FEP	1	21235084	TRE 0610/3 Z3 PLUS HC-FEP
					5 HC-FEP	1	21235054	TRE 0610/3 Z5 HC-FEP
12	20	6	60	5	3 HC-FEP	1	21135107	TRE 1220/6 Z3 HC-FEP
3	7	3	37	1.2	3 PLUS	1	21210083	TRE 0307/3 Z3 PLUS
					5	1	21210053	TRE 0307/3 Z5
6	10	3	40	2.8	3 PLUS	1	21235083	TRE 0610/3 Z3 PLUS
					5	1	21235053	TRE 0610/3 Z5
3	7	3	75	1.2	3 PLUS	1	21210087	TRE 0307/3 Z3 PLUS GL 75
					5	1	*21210057*	TRE 0307/3 Z5 GL 75
6	10	3	85	2.8	3 PLUS	1	21235087	TRE 0610/3 Z3 PLUS SL 75
					5	1	21235057	TRE 0610/3 Z5 SL 75
12	20	6	60	5	5 HC-FEP	1	21135157	TRE 1220/6 Z5 HC-FEP
6	10	6	50	2.8	3 PLUS	1	21134826	TRE 0610/6 Z3 PLUS
					3 PLUS HC-FEP	1	21134824	TRE 0610/6 Z3 PLUS HC-FEP
					5	1	*21134856*	TRE 0610/6 Z5
8	13	6	53	3.7	3 PLUS	1	21135026	TRE 0813/6 Z3 PLUS

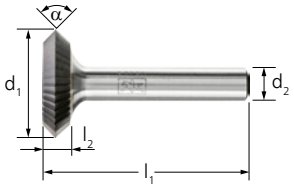
Continued on next page

New item
Discontinued product

TC burrs for universal applications
For fine and coarse stock removal

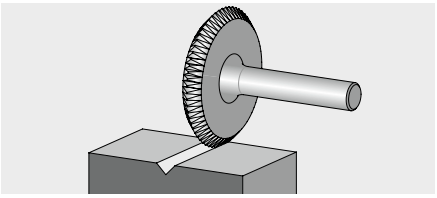
PFERD TOOLS

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	r [mm]	Cut		Item no.	Designation
8	13	6	53	3.7	4	1	*21135046*	TRE 0813/6 Z4
					5	1	*21135056*	TRE 0813/6 Z5
10	16	6	56	4	3 PLUS	1	21134926	TRE 1016/6 Z3 PLUS
					3 PLUS HC-FEP	1	21134924	TRE 1016/6 Z3 PLUS HC-FEP
					4	1	21134946	TRE 1016/6 Z4
12	20	6	60	5	1	1	21135116	TRE 1220/6 Z1
					3	1	21135106	TRE 1220/6 Z3
					3 PLUS	1	21135126	TRE 1220/6 Z3 PLUS
					3 PLUS HC-FEP	1	21135124	TRE 1220/6 Z3 PLUS HC-FEP
					4	1	21135146	TRE 1220/6 Z4
					5	1	21135156	TRE 1220/6 Z5
16	25	6	65	6.5	1	1	21135216	TRE 1625/6 Z1
					3 PLUS	1	21135226	TRE 1625/6 Z3 PLUS
					4	1	21135246	TRE 1625/6 Z4
6	10	6	160	2.8	3 PLUS	1	*21134827*	TRE 0610/6 Z3 PLUS SL 150
8	13	6	163	3.7	3 PLUS	1	21135027	TRE 0813/6 Z3 PLUS SL 150
10	16	6	166	4	3 PLUS	1	21134927	TRE 1016/6 Z3 PLUS SL 150
12	20	6	170	5	3 PLUS	1	21135127	TRE 1220/6 Z3 PLUS SL 150
		8	60	5	3 PLUS	1	21135128	TRE 1220/8 Z3 PLUS
16	25	8	65	6.5	3 PLUS	1	*21135228*	TRE 1625/8 Z3 PLUS



Rim shape N

Rim-shaped burr, circumferential cut is 90° and symmetric, tapered tip. The rim shape is particularly well suited to producing and processing prism-shaped keyways. A good stock removal rate is achieved through optimum matching of tungsten carbide, geometry, cut and available coating.



Special features:
- Long tool life and high surface quality.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	α [°]	Cut		Item no.	Designation
25	3	8	43	90	3	1	21134038	N 2503/8 Z3
	6	8	46	90	3	1	21134338	N 2506/8 Z3

Set 1500 cuts 3 PLUS and 5

Set 1500 – cuts 3 PLUS (shank dia. 6 mm) and 5 (shank dia. 3 mm) – contains 22 tungsten carbide burrs in the most common shapes and dimensions for general applications.

Contents:
The set comprises one each of the following: ZYAS 0616/6 Z3 PLUS, ZYAS 1013/6 Z3 PLUS, ZYAS 1225/6 Z3 PLUS, KUD 0605/6 Z3 PLUS, KUD 0807/6 Z3 PLUS, KUD 1210/6 Z3 PLUS, KUD 1614/6 Z3 PLUS, WRC 0616/6 Z3 PLUS, WRC 1225/6 Z3 PLUS, SPG 0618/6 Z3 PLUS, SPG 1020/6 Z3 PLUS, SPG 1225/6 Z3 PLUS, SKM 0618/6 Z3 PLUS and SKM 1020/6 Z3 PLUS, as well as one each of the following: ZYAS 0210/3 Z5, ZYAS 0313/3 Z5, WRC 0210/3 Z5, WRC 0313/3 Z5, SPG 0307/3 Z5, RBF 0307/3 Z5, TRE 0307/3 Z5 and WKN 0307/3 Z5.

Special features:
- The sturdy plastic box protects the tools against dirt and damage.

Cut		Item no.	Designation
3 PLUS, 5	1	21901500	SET 1500 Z3P/Z5 22TLG

Discontinued product

Set 1501 cut 5

Set 1501 – cut 5 – contains 15 small tungsten carbide burrs in the most common shapes and dimensions for general applications.

Contents:
The set comprises one each of the following: ZYAS 0210/3 Z5, ZYAS 0313/3 Z5, ZYAS 0607/3 Z5, ZYAS 0613/3 Z5, B 0307/3 Z5, KUD 0403/3 Z5, WRC 0210/3 Z5, WRC 0313/3 Z5, SPG 0307/3 Z5, SKM 0613/3 Z5, RBF 0307/3 Z5, RBF 0613/3 Z5, TRE 0307/3 Z5, TRE 0610/3 Z5 and WKNS 0307/3 Z5 with a shank diameter of 3 mm, cut 5.

Special features:
- The sturdy plastic box protects the tools against dirt and damage.

Cut		Item no.	Designation
5	1	21901501	SET 1501 Z5 15TLG

Set 1503 cut 3 PLUS

Set 1503 – cut 3 PLUS – contains 15 small tungsten carbide burrs in the most common shapes and dimensions for general applications.

Contents:
The set comprises one each of the following: ZYAS 0313/3 Z3 PLUS, ZYAS 0613/3 Z3 PLUS, KUD 0302/3 Z3 PLUS, KUD 0403/3 Z3 PLUS, KUD 0605/3 Z3 PLUS, WRC 0313/3 Z3 PLUS, WRC 0613/3 Z3 PLUS, SPG 0313/3 Z3 PLUS, SPG 0613/3 Z3 PLUS, SKM 0311/3 Z3 PLUS, SKM 0613/3 Z3 PLUS, RBF 0307/3 Z3 PLUS, RBF 0613/3 Z3 PLUS, TRE 0307/3 Z3 PLUS and TRE 0610/3 Z3 PLUS with a shank diameter of 3 mm, cut 3 PLUS.

Special features:
- The sturdy plastic box protects the tools against dirt and damage.

Cut		Item no.	Designation
3 PLUS	1	21901505	SET 1503 Z3P 15TLG

Set 1504 cut 3 PLUS

Set 1504 – cut 3 PLUS – contains three small tungsten carbide burrs in the most common shapes and dimensions for applications in the workshop.

Contents:
The set comprises one each of the following: ZYAS 0313/3 Z3 PLUS, WRC 0313/3 Z3 PLUS and RBF 0313/3 Z3 PLUS with a shank diameter of 3 mm, cut 3 PLUS.

Special features:
- The sturdy plastic box protects the tools against dirt and damage.

Cut		Item no.	Designation
3 PLUS	1	21901504	SET 1504 Z3P 3TLG

TC burrs for universal applications
For fine and coarse stock removal

Set 1505 cut 3 PLUS

Set 1505 – cut 3 PLUS – contains three tungsten carbide burrs in the most common shapes and dimensions for applications in the workshop.

Contents:
The set comprises one each of the following: ZYAS 0616/6 Z3 PLUS, WRC 0616/6 Z3 PLUS and RBF 0618/6 Z3 PLUS with a shank diameter of 6 mm, cut 3 PLUS.

Special features:
- The sturdy plastic box protects the tools against dirt and damage.

Cut		Item no.	Designation
3 PLUS	1	21901508	SET 1505 Z3P 3TLG

Set 1507 cut 3 PLUS

Set 1507 – cut 3 PLUS – contains three tungsten carbide burrs in the most common shapes and dimensions for applications in the workshop.

Contents:
The set comprises one each of the following: ZYAS 1225/6 Z3 PLUS, WRC 1225/6 Z3 PLUS and RBF 1225/6 Z3 PLUS with a shank diameter of 6 mm, cut 3 PLUS.

Special features:
- The sturdy plastic box protects the tools against dirt and damage.

Cut		Item no.	Designation
3 PLUS	1	21901507	SET 1507 Z3P 3TLG

Set 1506 cut 3 PLUS

Set 1506 – cut 3 PLUS – contains five tungsten carbide burrs in the most common shapes and dimensions for applications in the workshop.

Contents:
The set comprises one each of the following: ZYA 0616/6 Z3 PLUS, KUD 0605/6 Z3 PLUS, WRC 0616/6 Z3 PLUS, SPG 0618/6 Z3 PLUS and RBF 0618/6 Z3 PLUS with a shank diameter of 6 mm, cut 3 PLUS.

Special features:
- The sturdy plastic box protects the tools against dirt and damage.
- The burrs are secured at the shanks, facilitating the selection and withdrawal of the tools.
- Five further unused slots are available for other burrs.

Cut		Item no.	Designation
3 PLUS	1	21901506	SET 1506 Z3P 5TLG

TC burrs for universal applications
For fine and coarse stock removal

Set 1512 cut 3 PLUS

Set 1512 – cut 3 PLUS – contains five tungsten carbide burrs in the most common shapes and dimensions for applications in the workshop.

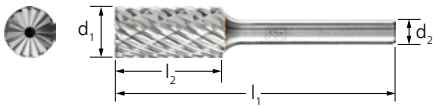
Contents:
The set comprises one each of the following: ZYA 1225/6 Z3 PLUS, KUD 1210/6 Z3 PLUS, WRC 1225/6 Z3 PLUS, SPG 1225/6 Z3 PLUS and RBF 1225/6 Z3 PLUS with a shank diameter of 6 mm, cut 3 PLUS.

Special features:
- The sturdy plastic box protects the tools against dirt and damage.
- The burrs are secured at the shanks, facilitating the selection and withdrawal of the tools.
- Five further unused slots are available for other burrs.

Cut		Item no.	Designation
3 PLUS	1	21901512	SET 1512 Z3P 5TLG

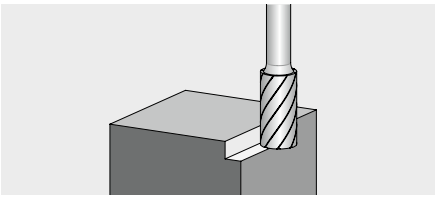
TC burrs for high-performance applications
ALLROUND cut for versatile use

PFERD TOOLS



Cylindrical shape ZYAS with end cut

Cylindrical burrs according to DIN 8032 with circumferential and end cut for versatile, economical and time-saving use on steel and cast steel, stainless steel (INOX), non-ferrous metals and cast iron. Also available with wear-resistant HICOAT coating.

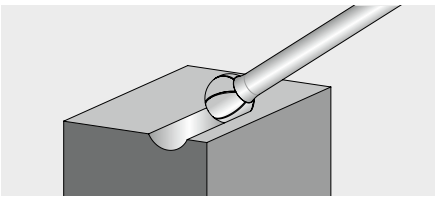


Special features:
- 30% higher stock removal rate when used on steel than conventional cross-cut burrs.
- Comfortable working thanks to reduced vibration and less noise.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	Cut		Item no.	Designation
3	13	3	43	ALLROUND HC-FEP	1	21001087	ZYAS 0313/3 ALLROUND HC-FEP
6	13	3	43	ALLROUND HC-FEP	1	21001088	ZYAS 0613/3 ALLROUND HC-FEP
3	13	3	43	ALLROUND	1	21001061	ZYAS 0313/3 ALLROUND
6	13	3	43	ALLROUND	1	21001062	ZYAS 0613/3 ALLROUND
	16	6	55	ALLROUND HC-FEP	1	21001081	ZYAS 0616/6 ALLROUND HC-FEP
				ALLROUND	1	21001000	ZYAS 0616/6 ALLROUND
8	20	6	60	ALLROUND	1	21001001	ZYAS 0820/6 ALLROUND
10	20	6	60	ALLROUND	1	21001002	ZYAS 1020/6 ALLROUND
				ALLROUND HC-FEP	1	21001043	ZYAS 1020/6 ALLROUND HC-FEP
12	25	6	65	ALLROUND	1	21001003	ZYAS 1225/6 ALLROUND
				ALLROUND HC-FEP	1	21001044	ZYAS 1225/6 ALLROUND HC-FEP
16	25	6	65	ALLROUND	1	21001004	ZYAS 1625/6 ALLROUND

Ball shape KUD

Ball-shaped burr according to DIN 8032 for versatile, economical and time-saving use on steel and cast steel, stainless steel (INOX), non-ferrous metals and cast iron. Also available with wear-resistant HICOAT coating.



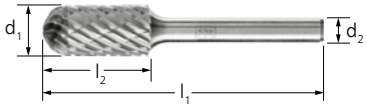
Special features:
- 30% higher stock removal rate when used on steel than conventional cross-cut burrs.
- Comfortable working thanks to reduced vibration and less noise.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	Cut		Item no.	Designation
3	2	3	33	ALLROUND HC-FEP	1	21001089	KUD 0302/3 ALLROUND HC-FEP
4	3	3	45	ALLROUND HC-FEP	1	21001090	KUD 0403/3 ALLROUND HC-FEP
6	5	3	35	ALLROUND HC-FEP	1	21001091	KUD 0605/3 ALLROUND HC-FEP
3	2	3	33	ALLROUND	1	21001063	KUD 0302/3 ALLROUND
4	3	3	34	ALLROUND	1	21001064	KUD 0403/3 ALLROUND
6	5	3	35	ALLROUND	1	21001065	KUD 0605/3 ALLROUND
		6	45	ALLROUND HC-FEP	1	21001084	KUD 0605/6 ALLROUND HC-FEP
				ALLROUND	1	21001005	KUD 0605/6 ALLROUND
8	7	6	47	ALLROUND	1	21001006	KUD 0807/6 ALLROUND
10	9	6	49	ALLROUND	1	21001007	KUD 1009/6 ALLROUND
				ALLROUND HC-FEP	1	21001045	KUD 1009/6 ALLROUND HC-FEP
12	10	6	51	ALLROUND	1	21001008	KUD 1210/6 ALLROUND
				ALLROUND HC-FEP	1	21001046	KUD 1210/6 ALLROUND HC-FEP
16	14	6	54	ALLROUND	1	21001009	KUD 1614/6 ALLROUND

New item

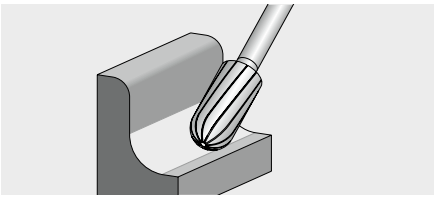
TC burrs for high-performance applications
ALLROUND cut for versatile use

PFERD TOOLS



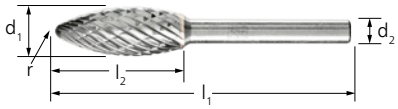
Cylindrical shape with radius end WRC

Cylindrical burr with radius end according to DIN 8032 for versatile, economical and time-saving use on steel and cast steel, stainless steel (INOX), non-ferrous metals and cast iron. Also available with wear-resistant HICOAT coating.



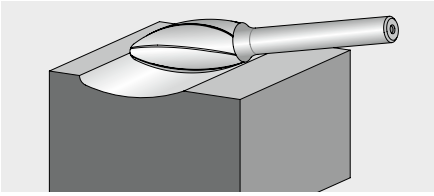
Special features:
- 30% higher stock removal rate when used on steel than conventional cross-cut burrs.
- Comfortable working thanks to reduced vibration and less noise.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	Cut		Item no.	Designation
3	13	3	43	ALLROUND HC-FEP	1	21001092	WRC 0313/3 ALLROUND HC-FEP
6	13	3	43	ALLROUND HC-FEP	1	21001093	WRC 0613/3 ALLROUND HC-FEP
3	13	3	43	ALLROUND	1	21001066	WRC 0313/3 ALLROUND
6	13	3	43	ALLROUND	1	21001067	WRC 0613/3 ALLROUND
12	16	6	55	ALLROUND HC-FEP	1	21001082	WRC 0616/6 ALLROUND HC-FEP
6	16	6	55	ALLROUND	1	21001010	WRC 0616/6 ALLROUND
8	20	6	60	ALLROUND	1	21001011	WRC 0820/6 ALLROUND
10	20	6	60	ALLROUND	1	21001012	WRC 1020/6 ALLROUND
				ALLROUND HC-FEP	1	21001047	WRC 1020/6 ALLROUND HC-FEP
12	25	6	65	ALLROUND	1	21001013	WRC 1225/6 ALLROUND
				ALLROUND HC-FEP	1	21001048	WRC 1225/6 ALLROUND HC-FEP
16	25	6	65	ALLROUND	1	21001014	WRC 1625/6 ALLROUND



Flame-shaped B

Flame-shaped burr according to ISO 7755/8 for versatile, economical and time-saving use on steel and cast steel, stainless steel (INOX), non-ferrous metals and cast iron. Also available with wear-resistant HICOAT coating.

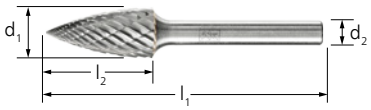


Special features:
- 30% higher stock removal rate when used on steel than conventional cross-cut burrs.
- Comfortable working thanks to reduced vibration and less noise.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	r [mm]	Cut		Item no.	Designation
3	7	3	37	0.8	ALLROUND HC-FEP	1	21001094	B 0307/3 ALLROUND HC-FEP
6	16	3	43	1	ALLROUND HC-FEP	1	21001095	B 0613/3 ALLROUND HC-FEP
3	7	3	37	0.8	ALLROUND	1	21001068	B 0307/3 ALLROUND
6	13	3	43	1	ALLROUND	1	21001069	B 0613/3 ALLROUND
8	20	6	60	1.5	ALLROUND	1	21001015	B 0820/6 ALLROUND
10	25	6	65	1.7	ALLROUND	1	21001016	B 1025/6 ALLROUND
					ALLROUND HC-FEP	1	21001049	B 1025/6 ALLROUND HC-FEP
12	30	6	70	2.1	ALLROUND	1	21001017	B 1230/6 ALLROUND
					ALLROUND HC-FEP	1	21001050	B 1230/6 ALLROUND HC-FEP
16	35	6	75	2.6	ALLROUND	1	21001018	B 1635/6 ALLROUND

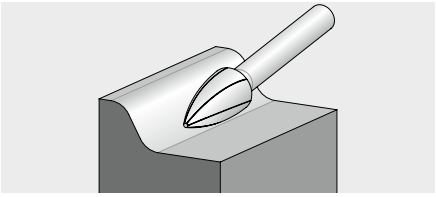
New item

TC burrs for high-performance applications
ALLROUND cut for versatile use



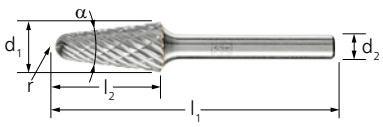
Pointed tree shape SPG

Pointed tree-shaped burr according to DIN 8032 with flattened tip for versatile, economical and time-saving use on steel and cast steel, stainless steel (INOX), non-ferrous metals and cast iron. Also available with wear-resistant HICOAT coating.



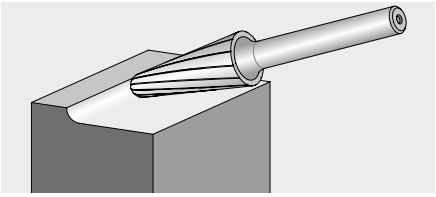
Special features:
- 30% higher stock removal rate when used on steel than conventional cross-cut burrs.
- Comfortable working thanks to reduced vibration and less noise.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	Cut		Item no.	Designation
3	7	3	37	ALLROUND HC-FEP	1	21001096	SPG 0307/3 ALLROUND HC-FEP
	13	3	43	ALLROUND HC-FEP	1	21001097	SPG 0313/3 ALLROUND HC-FEP
6	13	3	43	ALLROUND HC-FEP	1	21001098	SPG 0613/3 ALLROUND HC-FEP
3	7	3	37	ALLROUND	1	21001070	SPG 0307/3 ALLROUND
	13	3	43	ALLROUND	1	21001071	SPG 0313/3 ALLROUND
6	13	3	43	ALLROUND	1	21001072	SPG 0613/3 ALLROUND
	18	6	55	ALLROUND HC-FEP	1	21001085	SPG 0618/6 ALLROUND HC-FEP
				ALLROUND	1	21001019	SPG 0618/6 ALLROUND
8	20	6	60	ALLROUND	1	21001020	SPG 0820/6 ALLROUND
10	20	6	60	ALLROUND	1	21001021	SPG 1020/6 ALLROUND
				ALLROUND HC-FEP	1	21001051	SPG 1020/6 ALLROUND HC-FEP
12	25	6	65	ALLROUND	1	21001022	SPG 1225/6 ALLROUND
				ALLROUND HC-FEP	1	21001052	SPG 1225/6 ALLROUND HC-FEP
16	30	6	70	ALLROUND	1	21001023	SPG 1630/6 ALLROUND



Conical shape with radius end KEL

Conical burr with round radius end according to DIN 8032 for versatile, economical and time-saving use on steel and cast steel, stainless steel (INOX), non-ferrous metals and cast iron. Also available with wear-resistant HICOAT coating.



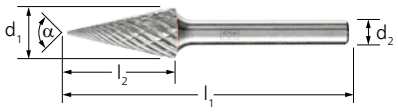
Special features:
- 30% higher stock removal rate when used on steel than conventional cross-cut burrs.
- Comfortable working thanks to reduced vibration and less noise.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	α [°]	r [mm]	Cut		Item no.	Designation
8	20	6	60	16	1.25	ALLROUND	1	21001025	KEL 0820/6 ALLROUND
10	20	6	60	14	2.9	ALLROUND	1	21001026	KEL 1020/6 ALLROUND
						ALLROUND HC-FEP	1	21001053	KEL 1020/6 ALLROUND HC-FEP
12	25	6	65	14	3.3	ALLROUND	1	21001027	KEL 1225/6 ALLROUND
			70	14	3.3	ALLROUND HC-FEP	1	21001054	KEL 1225/6 ALLROUND HC-FEP
16	30	6	70	14	4.8	ALLROUND	1	21001028	KEL 1630/6 ALLROUND

New item

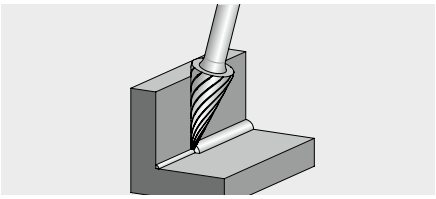
TC burrs for high-performance applications
ALLROUND cut for versatile use

PFERD TOOLS



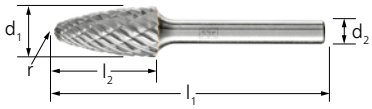
Conical pointed shape SKM

Conical pointed burr according to DIN 8032 with flattened tip for versatile, economical and time-saving use on steel and cast steel, stainless steel (INOX), non-ferrous metals and cast iron. Also available with wear-resistant HICOAT coating.



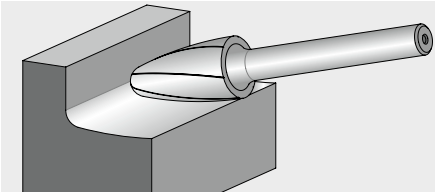
Special features:
- 30% higher stock removal rate when used on steel than conventional cross-cut burrs.
- Comfortable working thanks to reduced vibration and less noise.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	α [°]	Cut		Item no.	Designation
3	7	3	37	14	ALLROUND HC-FEP	1	21001099	SKM 0307/3 ALLROUND HC-FEP
	11	3	41	14	ALLROUND HC-FEP	1	21001100	SKM 0311/3 ALLROUND HC-FEP
6	13	3	43	25	ALLROUND HC-FEP	1	21001101	SKM 0613/3 ALLROUND HC-FEP
3	7	3	37	21	ALLROUND	1	21001073	SKM 0307/3 ALLROUND
	11	3	41	14	ALLROUND	1	21001074	SKM 0311/3 ALLROUND
6	13	3	43	25	ALLROUND	1	21001075	SKM 0613/3 ALLROUND
	18	6	55	18	ALLROUND HC-FEP	1	21001086	SKM 0618/6 ALLROUND HC-FEP
					ALLROUND	1	21001034	SKM 0618/6 ALLROUND
8	20	6	60	22	ALLROUND	1	21001035	SKM 0820/6 ALLROUND
10	20	6	60	28	ALLROUND	1	21001036	SKM 1020/6 ALLROUND
					ALLROUND HC-FEP	1	21001057	SKM 1020/6 ALLROUND HC-FEP
12	25	6	65	26	ALLROUND	1	21001037	SKM 1225/6 ALLROUND
					ALLROUND HC-FEP	1	21001058	SKM 1225/6 ALLROUND HC-FEP



Tree shape with radius end RBF

Tree-shaped burr with radius end according to DIN 8032 for versatile, economical and time-saving use on steel and cast steel, stainless steel (INOX), non-ferrous metals and cast iron. Also available with wear-resistant HICOAT coating.

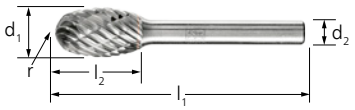


Special features:
- 30% higher stock removal rate when used on steel than conventional cross-cut burrs.
- Comfortable working thanks to reduced vibration and less noise.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	r [mm]	Cut		Item no.	Designation
3	7	3	37	0.75	ALLROUND HC-FEP	1	21001102	RBF 0307/3 ALLROUND HC-FEP
	13	3	43	0.75	ALLROUND HC-FEP	1	21001103	RBF 0313/3 ALLROUND HC-FEP
6	13	3	43	1.5	ALLROUND HC-FEP	1	21001104	RBF 0613/3 ALLROUND HC-FEP
3	7	3	37	0.75	ALLROUND	1	21001076	RBF 0307/3 ALLROUND
	13	3	43	0.75	ALLROUND	1	21001077	RBF 0313/3 ALLROUND
6	13	3	43	1.5	ALLROUND	1	21001078	RBF 0613/3 ALLROUND
	18	6	55	1.5	ALLROUND HC-FEP	1	21001083	RBF 0618/6 ALLROUND HC-FEP
					ALLROUND	1	21001029	RBF 0618/6 ALLROUND
8	20	6	60	1.2	ALLROUND	1	21001030	RBF 0820/6 ALLROUND
10	20	6	60	2.5	ALLROUND	1	21001031	RBF 1020/6 ALLROUND
					ALLROUND HC-FEP	1	21001055	RBF 1020/6 ALLROUND HC-FEP
12	25	6	65	2.5	ALLROUND	1	21001032	RBF 1225/6 ALLROUND
					ALLROUND HC-FEP	1	21001056	RBF 1225/6 ALLROUND HC-FEP
16	30	6	70	3.6	ALLROUND	1	21001033	RBF 1630/6 ALLROUND

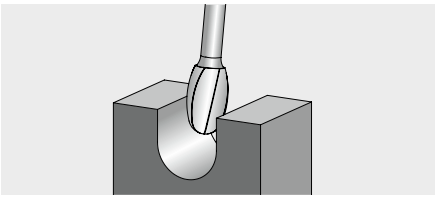
New item

TC burrs for high-performance applications
ALLROUND cut for versatile use



Oval shape TRE

Oval burr according to DIN 8032 for versatile, economical and time-saving use on steel and cast steel, stainless steel (INOX), non-ferrous metals and cast iron. Also available with wear-resistant HICOAT coating.



Special features:
- 30% higher stock removal rate when used on steel than conventional cross-cut burrs.
- Comfortable working thanks to reduced vibration and less noise.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	r [mm]	Cut		Item no.	Designation
3	7	3	37	1.2	ALLROUND HC-FEP	1	21001105	TRE 0307/3 ALLROUND HC-FEP
6	10	3	40	2.8	ALLROUND HC-FEP	1	21001106	TRE 0610/3 ALLROUND HC-FEP
3	7	3	37	1.2	ALLROUND	1	21001079	TRE 0307/3 ALLROUND
6	10	3	40	2.8	ALLROUND	1	21001080	TRE 0610/3 ALLROUND
8	13	6	53	3.7	ALLROUND	1	21001039	TRE 0813/6 ALLROUND
10	16	6	56	4	ALLROUND	1	21001040	TRE 1016/6 ALLROUND
					ALLROUND HC-FEP	1	21001059	TRE 1016/6 ALLROUND HC-FEP
12	20	6	60	5	ALLROUND	1	21001041	TRE 1220/6 ALLROUND
					ALLROUND HC-FEP	1	21001060	TRE 1220/6 ALLROUND HC-FEP
16	25	6	65	6.5	ALLROUND	1	21001042	TRE 1625/6 ALLROUND

Set 1412 ALLROUND

Set 1412 ALLROUND contains five versatile tungsten carbide burrs for use on important materials such as steel and cast steel, stainless steel (INOX), non-ferrous metals and cast iron in the most common shapes and dimensions.

Contents:
The set comprises one each of the following: ZYAS 1225/6 ALLROUND, KUD 1210/6 ALLROUND, WRC 1225/6 ALLROUND, SPG 1225/6 ALLROUND and RBF 1225/6 ALLROUND with a shank diameter of 6 mm, cut ALLROUND.

Special features:
- The sturdy plastic box protects the tools against dirt and damage.
- The burrs are secured at the shanks, facilitating the selection and withdrawal of the tools.
- Five further unused slots are available for other burrs.

Cut		Item no.	Designation
ALLROUND	1	21901412	SET 1412 ALLROUND 5TLG

Set 1403 ALLROUND

Set 1403 ALLROUND contains three versatile small tungsten carbide burrs for use on important materials such as steel and cast steel, stainless steel (INOX), non-ferrous metals and cast iron in the most common shapes and dimensions.

Contents:
The set comprises one each of the following: ZYAS 0313/3 ALLROUND, WRC 0313/3 ALLROUND and RBF 0313/3 ALLROUND with a shank diameter of 3 mm, cut ALLROUND.

Special features:
- The sturdy plastic box protects the tools against dirt and damage.

Cut		Item no.	Designation
ALLROUND	1	21901403	SET 1403 ALLROUND 3TLG

New item

TC burrs for high-performance applications
ALLROUND cut for versatile use

Set 1404 ALLROUND

Set 1404 ALLROUND contains three versatile small tungsten carbide burrs for use on important materials such as steel and cast steel, stainless steel (INOX), non-ferrous metals and cast iron in the most common shapes and dimensions.

Contents:
The set comprises one each of the following: ZYAS 0613/3 ALLROUND, WRC 0613/3 ALLROUND and RBF 0613/3 ALLROUND with a shank diameter of 3 mm, cut ALLROUND.

Special features:
- The sturdy plastic box protects the tools against dirt and damage.

Cut		Item no.	Designation
ALLROUND	1	21901404	SET 1404 ALLROUND 3TLG

Set 1406 ALLROUND

Set 1406 ALLROUND contains three versatile tungsten carbide burrs for use on important materials such as steel and cast steel, stainless steel (INOX), non-ferrous metals and cast iron in the most common shapes and dimensions.

Contents:
The set comprises one each of the following: ZYAS 0616/6 ALLROUND, WRC 0616/6 ALLROUND and RBF 0618/6 ALLROUND with a shank diameter of 6 mm, cut ALLROUND.

Special features:
- The sturdy plastic box protects the tools against dirt and damage.

Cut		Item no.	Designation
ALLROUND	1	21901406	SET 1406 ALLROUND 3TLG

Set 1406 ALLROUND HC-FEP

The 1406 ALLROUND HC-FEP set contains three versatile tungsten carbide burrs for use on important materials such as steel and cast steel, stainless steel (INOX), non-ferrous metals and cast iron in the most common shapes and dimensions.

Contents:
The set comprises one each of the following: ZYAS 0616/6 ALLROUND HC-FEP, WRC 0616/6 ALLROUND HC-FEP and RBF 0618/6 ALLROUND HC-FEP with a shank diameter of 6 mm, cut ALLROUND HC-FEP.

Special features:
- The sturdy plastic box protects the tools against dirt and damage.

Cut		Item no.	Designation
ALLROUND HC-FEP	1	21901405	1406 ALLROUND 3TLG HC-FEP

New item

TC burrs for high-performance applications
ALLROUND cut for versatile use

Set 1414 ALLROUND

Set 1414 ALLROUND contains three versatile tungsten carbide burrs for use on important materials such as steel and cast steel, stainless steel (INOX), non-ferrous metals and cast iron in the most common shapes and dimensions.

Contents:
The set comprises one each of the following: ZYAS 1225/6 ALLROUND, WRC 1225/6 ALLROUND and RBF 1225/6 ALLROUND with a shank diameter of 6 mm, cut ALLROUND.

Special features:
- The sturdy plastic box protects the tools against dirt and damage.

Cut		Item no.	Designation
ALLROUND	1	21901414	SET 1414 ALLROUND 3TLG

Set 1414 ALLROUND HC-FEP

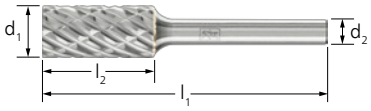
Set 1414 ALLROUND HC-FEP contains three versatile tungsten carbide burrs with high-quality HICOAT coating for use on important materials such as steel and cast steel, stainless steel (INOX), non-ferrous metals and cast iron in the most common shapes and dimensions.

Contents:
The set comprises one each of the following: ZYAS 1225/6 ALLROUND HC-FEP, WRC 1225/6 ALLROUND HC-FEP and RBF 1225/6 ALLROUND HC-FEP with a shank diameter of 6 mm, cut ALLROUND.

Special features:
- The sturdy plastic box protects the tools against dirt and damage.

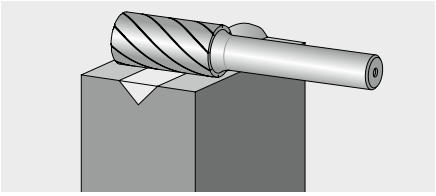
Cut		Item no.	Designation
ALLROUND HC-FEP	1	21901415	SET 1414 ALLROUND 3TLG HC-FEP

STEEL cut for steel and cast steel



Cylindrical shape ZYA without end cut

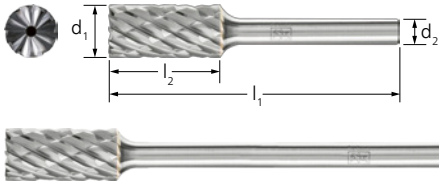
Cylindrical burrs according to DIN 8032 for machining steel and cast steel. Tangibly more aggressive combined with good guidance, guaranteeing safe and precise work. Also available with wear-resistant HICOAT coating.



Special features:
- Up to 50% higher stock removal rate when used on steel and cast steel than conventional cross-cut burrs.
- Workpieces are protected through significantly lower thermal load.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

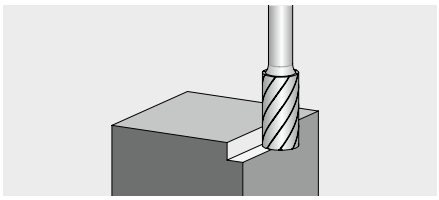
d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	Cut		Item no.	Designation
6	16	6	55	STEEL	1	21101687	ZYA 0616/6 STEEL
8	20	6	60	STEEL	1	21101787	ZYA 0820/6 STEEL
10	20	6	60	STEEL	1	21102187	ZYA 1020/6 STEEL
				STEEL HC-FEP	1	21102190	ZYA 1020/6 STEEL HC-FEP
12	25	6	65	STEEL	1	21101987	ZYA 1225/6 STEEL
				STEEL HC-FEP	1	21101990	ZYA 1225/6 STEEL HC-FEP
16	25	6	65	STEEL	1	21102037	ZYA 1625/6 STEEL

TC burrs for high-performance applications
STEEL cut for steel and cast steel



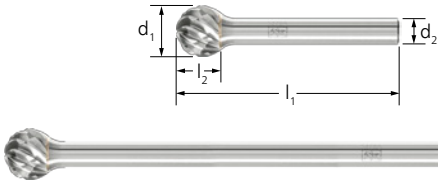
Cylindrical shape ZYAS with end cut

Cylindrical burr according to DIN 8032 with circumferential and end cut for machining steel and cast steel. Tangibly more aggressive combined with good guidance, guaranteeing safe and precise work. Also available with wear-resistant HICOAT coating.



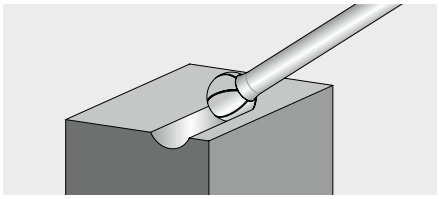
Special features:
- Up to 50% higher stock removal rate when used on steel and cast steel than conventional cross-cut burrs.
- Workpieces are protected through significantly lower thermal load.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	Cut		Item no.	Designation
6	16	6	55	STEEL	1	21100287	ZYAS 0616/6 STEEL
8	20	6	60	STEEL	1	21100387	ZYAS 0820/6 STEEL
10	20	6	60	STEEL	1	21100487	ZYAS 1020/6 STEEL
				STEEL HC-FEP	1	21100490	ZYAS 1020/6 STEEL HC-FEP
12	25	6	65	STEEL	1	21100587	ZYAS 1225/6 STEEL
				STEEL HC-FEP	1	21100590	ZYAS 1225/6 STEEL HC-FEP
16	25	6	65	STEEL	1	21100687	ZYAS 1625/6 STEEL
8	20	6	170	STEEL	1	*21100327*	ZYAS 0820/6 STEEL SL 150
10	20	6	170	STEEL	1	21100727	ZYAS 1020/6 STEEL SL 150
12	25	6	175	STEEL	1	21100527	ZYAS 1225/6 STEEL SL 150



Ball shape KUD

Ball-shaped burr according to DIN 8032 for machining steel and cast steel. Tangibly more aggressive combined with good guidance, guaranteeing safe and precise work. Also available with wear-resistant HICOAT coating.



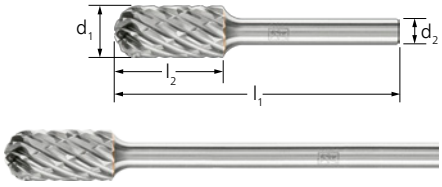
Special features:
- Up to 50% higher stock removal rate when used on steel and cast steel than conventional cross-cut burrs.
- Workpieces are protected through significantly lower thermal load.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	Cut		Item no.	Designation
6	5	6	45	STEEL	1	21112587	KUD 0605/6 STEEL
8	7	6	47	STEEL	1	21112687	KUD 0807/6 STEEL
10	9	6	49	STEEL	1	21112787	KUD 1009/6 STEEL
				STEEL HC-FEP	1	21112790	KUD 1009/6 STEEL HC-FEP
12	10	6	51	STEEL	1	21112887	KUD 1210/6 STEEL
				STEEL HC-FEP	1	21112890	KUD 1210/6 STEEL HC-FEP
16	14	6	54	STEEL	1	21112987	KUD 1614/6 STEEL
10	9	6	159	STEEL	1	*21112789*	KUD 1009/6 STEEL SL 150
12	10	6	160	STEEL	1	*21112889*	KUD 1210/6 STEEL SL 150

Discontinued product

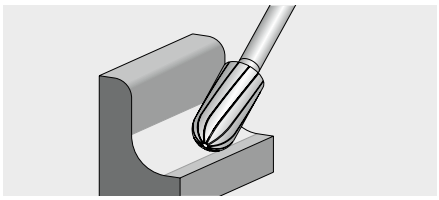
TC burrs for high-performance applications
STEEL cut for steel and cast steel

PFERD TOOLS



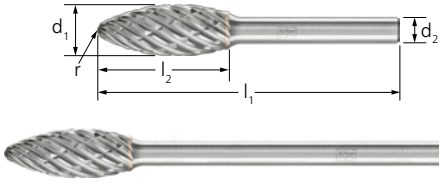
Cylindrical shape with radius end WRC

Cylindrical burr with radius end according to DIN 8032 for machining steel and cast steel. Tangibly more aggressive combined with good guidance, guaranteeing safe and precise work. Also available with wear-resistant HICOAT coating.



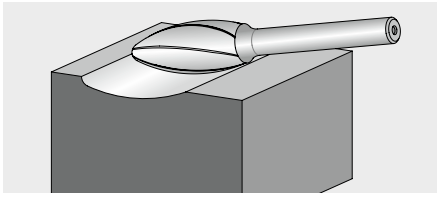
Special features:
- Up to 50% higher stock removal rate when used on steel and cast steel than conventional cross-cut burrs.
- Workpieces are protected through significantly lower thermal load.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	Cut		Item no.	Designation
6	16	6	55	STEEL	1	21105087	WRC 0616/6 STEEL
8	20	6	60	STEEL	1	21105187	WRC 0820/6 STEEL
10	20	6	60	STEEL	1	21105287	WRC 1020/6 STEEL
				STEEL HC-FEP	1	21105290	WRC 1020/6 STEEL HC-FEP
12	25	6	65	STEEL	1	21105387	WRC 1225/6 STEEL
				STEEL HC-FEP	1	21105390	WRC 1225/6 STEEL HC-FEP
16	25	6	65	STEEL	1	21105487	WRC 1625/6 STEEL
8	20	6	170	STEEL	1	*21105186*	WRC 0820/6 STEEL SL 150
10	20	6	170	STEEL	1	*21105286*	WRC 1020/6 STEEL SL 150
12	25	6	175	STEEL	1	*21105389*	WRC 1225/6 STEEL SL 150



Flame-shaped B

Flame-shaped burr according to ISO 7755/8 for machining steel and cast steel. Tangibly more aggressive combined with good guidance, guaranteeing safe and precise work. Also available with wear-resistant HICOAT coating.

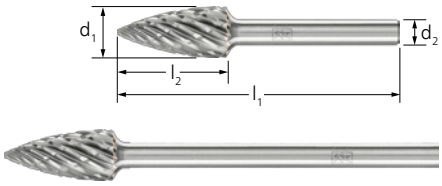


Special features:
- Up to 50% higher stock removal rate when used on steel and cast steel than conventional cross-cut burrs.
- Workpieces are protected through significantly lower thermal load.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	r [mm]	Cut		Item no.	Designation
8	20	6	60	1.5	STEEL	1	21103187	B 0820/6 STEEL
10	25	6	65	1.7	STEEL	1	21103286	B 1025/6 STEEL
					STEEL HC-FEP	1	21103290	B 1025/6 STEEL HC-FEP
12	30	6	70	2.1	STEEL	1	21103387	B 1230/6 STEEL
					STEEL HC-FEP	1	21103390	B 1230/6 STEEL HC-FEP
16	35	6	75	2.6	STEEL	1	21103436	B 1635/6 STEEL
10	25	6	175	1.7	STEEL	1	*21103227*	B 1025/6 STEEL SL 150
12	30	6	180	2.1	STEEL	1	*21103386*	B 1230/6 STEEL SL 150

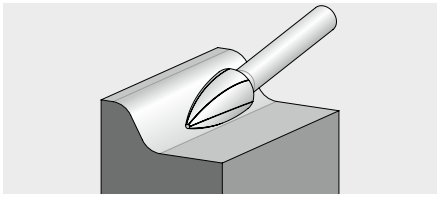
Discontinued product

TC burrs for high-performance applications
STEEL cut for steel and cast steel



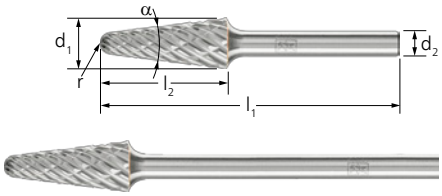
Pointed tree shape SPG

Pointed tree-shaped burr according to DIN 8032 with flattened tip for machining steel and cast steel. Tangibly more aggressive combined with good guidance, guaranteeing safe and precise work. Also available with wear-resistant HICOAT coating.



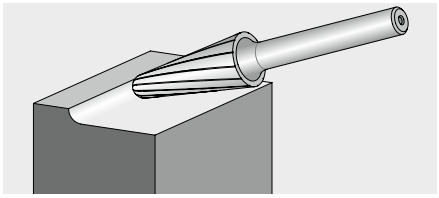
Special features:
- Up to 50% higher stock removal rate when used on steel and cast steel than conventional cross-cut burrs.
- Workpieces are protected through significantly lower thermal load.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	Cut		Item no.	Designation
6	18	6	55	STEEL	1	21122587	SPG 0618/6 STEEL
8	20	6	60	STEEL	1	21122588	SPG 0820/6 STEEL
10	20	6	60	STEEL	1	21122687	SPG 1020/6 STEEL
				STEEL HC-FEP	1	21122690	SPG 1020/6 STEEL HC-FEP
12	25	6	65	STEEL	1	21122787	SPG 1225/6 STEEL
				STEEL HC-FEP	1	21122790	SPG 1225/6 STEEL HC-FEP
16	30	6	70	STEEL	1	*21122887*	SPG 1630/6 STEEL



Conical shape with radius end KEL

Conical burr with round radius end according to DIN 8032 for machining steel and cast steel. Tangibly more aggressive combined with good guidance, guaranteeing safe and precise work. Also available with wear-resistant HICOAT coating.

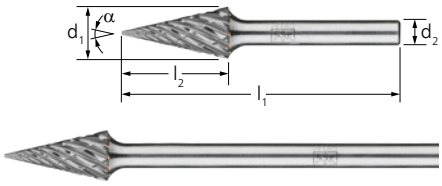


Special features:
- Up to 50% higher stock removal rate when used on steel and cast steel than conventional cross-cut burrs.
- Workpieces are protected through significantly lower thermal load.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	α [°]	r [mm]	Cut		Item no.	Designation
10	20	6	60	14	2.9	STEEL	1	21125087	KEL 1020/6 STEEL
						STEEL HC-FEP	1	21125090	KEL 1020/6 STEEL HC-FEP
12	30	6	70	14	2.6	STEEL	1	21125287	KEL 1230/6 STEEL
						STEEL HC-FEP	1	21125290	KEL 1230/6 STEEL HC-FEP
16	30	6	70	14	4.8	STEEL	1	21125387	KEL 1630/6 STEEL
10	20	6	170	14	2.9	STEEL	1	*21125089*	KEL 1020/6 STEEL SL 150
12	30	6	180	14	2.6	STEEL	1	*21125289*	KEL 1230/6 STEEL SL 150

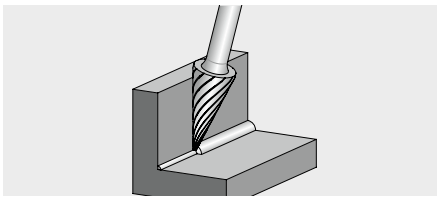
Discontinued product

TC burrs for high-performance applications
STEEL cut for steel and cast steel



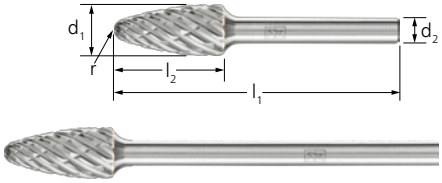
Conical pointed shape SKM

Conical pointed burr according to DIN 8032 with flattened tip for machining steel and cast steel. Tangibly more aggressive combined with good guidance, guaranteeing safe and precise work. Also available with wear-resistant HICOAT coating.



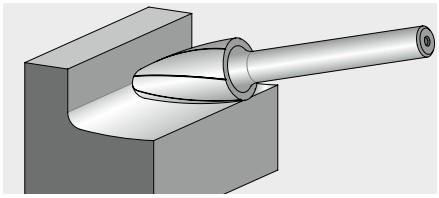
Special features:
- Up to 50% higher stock removal rate when used on steel and cast steel than conventional cross-cut burrs.
- Workpieces are protected through significantly lower thermal load.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	α [°]	Cut		Item no.	Designation
6	18	6	55	18	STEEL	1	*21115077*	SKM 0618/6 STEEL
8	20	6	60	22	STEEL	1	21115087	SKM 0820/6 STEEL
10	20	6	60	28	STEEL	1	21115187	SKM 1020/6 STEEL
					STEEL HC-FEP	1	21115190	SKM 1020/6 STEEL HC-FEP
12	25	6	65	26	STEEL	1	21115287	SKM 1225/6 STEEL
					STEEL HC-FEP	1	21115290	SKM 1225/6 STEEL HC-FEP



Tree shape with radius end RBF

Tree-shaped burr with radius end according to DIN 8032 for machining steel and cast steel. Tangibly more aggressive combined with good guidance, guaranteeing safe and precise work. Also available with wear-resistant HICOAT coating.

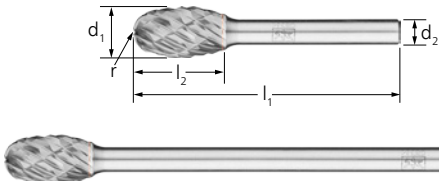


Special features:
- Up to 50% higher stock removal rate when used on steel and cast steel than conventional cross-cut burrs.
- Workpieces are protected through significantly lower thermal load.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	r [mm]	Cut		Item no.	Designation
6	18	6	55	1.5	STEEL	1	21117387	RBF 0618/6 STEEL
8	20	6	60	1.2	STEEL	1	21117687	RBF 0820/6 STEEL
10	20	6	60	2.5	STEEL	1	21117787	RBF 1020/6 STEEL
					STEEL HC-FEP	1	21117790	RBF 1020/6 STEEL HC-FEP
12	25	6	65	2.5	STEEL	1	21117887	RBF 1225/6 STEEL
					STEEL HC-FEP	1	21117890	RBF 1225/6 STEEL HC-FEP
16	30	6	70	3.6	STEEL	1	21117987	RBF 1630/6 STEEL

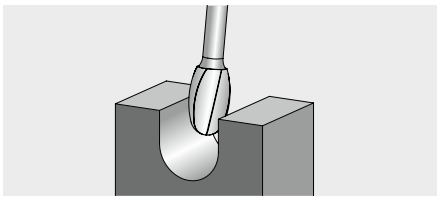
Discontinued product

TC burrs for high-performance applications
STEEL cut for steel and cast steel



Oval shape TRE

Oval burr according to DIN 8032 for machining steel and cast steel. Tangibly more aggressive combined with good guidance, guaranteeing safe and precise work. Also available with wear-resistant HICOAT coating.



Special features:
- Up to 50% higher stock removal rate when used on steel and cast steel than conventional cross-cut burrs.
- Workpieces are protected through significantly lower thermal load.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	r [mm]	Cut		Item no.	Designation
8	13	6	53	3.7	STEEL	1	*21135087*	TRE 0813/6 STEEL
10	16	6	56	4	STEEL	1	*21134987*	TRE 1016/6 STEEL
					STEEL HC-FEP	1	21134990	TRE 1016/6 STEEL HC-FEP
12	20	6	60	5	STEEL	1	*21135187*	TRE 1220/6 STEEL
					STEEL HC-FEP	1	21135190	TRE 1220/6 STEEL HC-FEP
16	25	6	65	6.5	STEEL	1	21135287	TRE 1625/6 STEEL
10	16	6	160	4	STEEL	1	*21134988*	TRE 1016/6 STEEL SL 150
12	20	6	170	5	STEEL	1	*21135189*	TRE 1220/6 STEEL SL 150

Set 1812 STEEL

Set 1812 STEEL contains five tungsten carbide burrs for processing steel and cast steel in the most common shapes and dimensions.

Contents:
The set comprises one each of the following: ZYA 1225/6 STEEL, KUD 1210/6 STEEL, WRC 1225/6 STEEL, SPG 1225/6 STEEL and RBF 1225/6 STEEL with a shank diameter of 6 mm, cut STEEL.

Special features:
- The sturdy plastic box protects the tools against dirt and damage.
- The burrs are secured at the shanks, facilitating the selection and withdrawal of the tools.
- Five further slots are available for other burrs.

Cut		Item no.	Designation
STEEL	1	21901812	SET 1812 STEEL 5TLG

Set 1806 STEEL

Set 1806 STEEL contains three tungsten carbide burrs for processing steel and cast steel in the most common shapes and dimensions.

Contents:
The set comprises one each of the following: ZYAS 0616/6 STEEL, WRC 0616/6 STEEL and RBF 0618/6 STEEL with a shank diameter of 6 mm, cut STEEL.

Special features:
- The sturdy plastic box protects the tools against dirt and damage.

Cut		Item no.	Designation
STEEL	1	21901806	SET 1806 STEEL 3TLG

Discontinued product

Set 1806 STEEL HC-FEP

The 1806 STEEL HC-FEP set contains three tungsten carbide burrs for processing steel and cast steel in the most common shapes and dimensions.

Contents:
The set comprises one each of the following: ZYAS 0616/6 STEEL HC-FEP, WRC 0616/6 STEEL HC-FEP and RBF 0618/6 STEEL HC-FEP with a shank diameter of 6 mm, cut STEEL HC-FEP.

Special features:
- The sturdy plastic box protects the tools against dirt and damage.

Cut		Item no.	Designation
STEEL HC-FEP	1	21901805	1806 STEEL 3TLG HC-FEP

Set 1807 STEEL HC-FEP

The 1807 STEEL HC-FEP set contains three tungsten carbide burrs for processing steel and cast steel in the most common shapes and dimensions.

Contents:
The set comprises one each of the following: ZYAS 1225/6 STEEL HC-FEP, WRC 1225/6 STEEL HC-FEP and RBF 1225/6 STEEL HC-FEP with a shank diameter of 6 mm, cut STEEL HC-FEP.

Special features:
- The sturdy plastic box protects the tools against dirt and damage.

Cut		Item no.	Designation
STEEL HC-FEP	1	21901808	1807 STEEL 3TLG HC-FEP

Set 1807 STEEL

Set 1807 STEEL contains three tungsten carbide burrs for processing steel and cast steel in the most common shapes and dimensions.

Contents:
The set comprises one each of the following: ZYAS 1225/6 STEEL, WRC 1225/6 STEEL and RBF 1225/6 STEEL with a shank diameter of 6 mm, cut STEEL.

Special features:
- The sturdy plastic box protects the tools against dirt and damage.

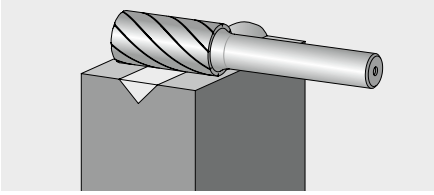
Cut		Item no.	Designation
STEEL	1	21901807	SET 1807 STEEL 3TLG

New item

TC burrs for high-performance applications
INOX cut for stainless steel (INOX)

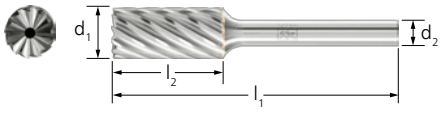
Cylindrical shape ZYA without end cut

Cylindrical burrs according to DIN 8032 for machining stainless steel (INOX). The cut impresses with an extremely high stock removal rate and long tool life as well as much lower vibration than comparable cross cuts. Also available with wear-resistant HICOAT coating.



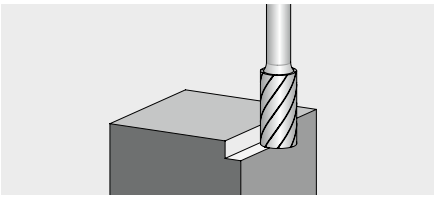
Special features:
- Achieves high surface qualities through optimum chip formation.
- Prevents heat discolouration in the material due to reduced heat production.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	Cut		Item no.	Designation
3	13	3	43	INOX	1	21201282	ZYA 0313/3 INOX
6	13	3	43	INOX	1	21201482	ZYA 0613/3 INOX
	16	6	55	INOX	1	21101682	ZYA 0616/6 INOX
8	20	6	60	INOX	1	21101782	ZYA 0820/6 INOX
10	20	6	60	INOX	1	21102182	ZYA 1020/6 INOX
				INOX HC-STS	1	21102181	ZYA 1020/6 INOX HC-STS
12	25	6	65	INOX	1	21101982	ZYA 1225/6 INOX
				INOX HC-STS	1	21101981	ZYA 1225/6 INOX HC-STS



Cylindrical shape ZYAS with end cut

Cylindrical burr according to DIN 8032 with circumferential and end cut for machining stainless steel (INOX). The cut impresses with an extremely high stock removal rate and long tool life as well as much lower vibration than comparable cross cuts. Also available with wear-resistant HICOAT coating.



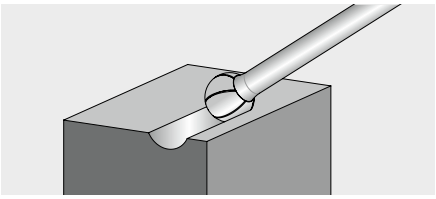
Special features:
- Achieves high surface qualities through optimum chip formation.
- Prevents heat discolouration in the material due to reduced heat production.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	Cut		Item no.	Designation
3	13	3	43	INOX	1	21200282	ZYAS 0313/3 INOX
6	13	3	43	INOX	1	21200482	ZYAS 0613/3 INOX
	16	6	55	INOX	1	21100282	ZYAS 0616/6 INOX
12	25	6	65	INOX	1	21100582	ZYAS 1225/6 INOX
				INOX HC-STS	1	21100581	ZYAS 1225/6 INOX HC-STS

TC burrs for high-performance applications
INOX cut for stainless steel (INOX)

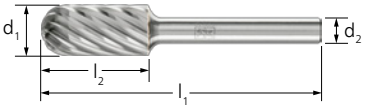
Ball shape KUD

Ball-shaped burr according to DIN 8032 for machining stainless steel (INOX). The cut impresses with an extremely high stock removal rate and long tool life as well as much lower vibration than comparable cross cuts. Also available with wear-resistant HICOAT coating.



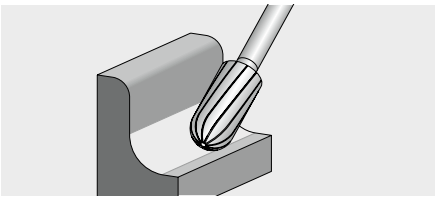
Special features:
- Achieves high surface qualities through optimum chip formation.
- Prevents heat discolouration in the material due to reduced heat production.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	Cut		Item no.	Designation
3	2	3	33	INOX	1	21211082	KUD 0302/3 INOX
4	3	3	34	INOX	1	21212582	KUD 0403/3 INOX
5	4	3	35	INOX	1	21212682	KUD 0504/3 INOX
6	5	3	35	INOX	1	21213082	KUD 0605/3 INOX
		6	45	INOX	1	21112582	KUD 0605/6 INOX
8	7	6	47	INOX	1	21112682	KUD 0807/6 INOX
10	9	6	49	INOX	1	21112782	KUD 1009/6 INOX
				INOX HC-STS	1	21112781	KUD 1009/6 INOX HC-STS
12	10	6	51	INOX	1	21112882	KUD 1210/6 INOX
				INOX HC-STS	1	21112881	KUD 1210/6 INOX HC-STS



Cylindrical shape with radius end WRC

Cylindrical burr with radius end according to DIN 8032 for machining stainless steel (INOX). The cut impresses with an extremely high stock removal rate and long tool life as well as much lower vibration than comparable cross cuts. Also available with wear-resistant HICOAT coating.

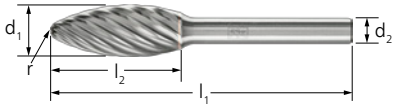


Special features:
- Achieves high surface qualities through optimum chip formation.
- Prevents heat discolouration in the material due to reduced heat production.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	Cut		Item no.	Designation
3	13	3	43	INOX	1	21205182	WRC 0313/3 INOX
6	13	3	43	INOX	1	21205282	WRC 0613/3 INOX
	16	6	55	INOX	1	21105082	WRC 0616/6 INOX
8	20	6	60	INOX	1	21105182	WRC 0820/6 INOX
10	20	6	60	INOX	1	21105282	WRC 1020/6 INOX
				INOX HC-STS	1	21105281	WRC 1020/6 INOX HC-STS
12	25	6	65	INOX	1	21105382	WRC 1225/6 INOX
				INOX HC-STS	1	21105381	WRC 1225/6 INOX HC-STS

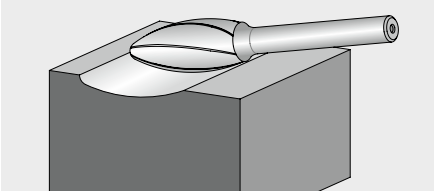
TC burrs for high-performance applications
INOX cut for stainless steel (INOX)

PFERD TOOLS



Flame-shaped B

Flame-shaped burr according to ISO 7755/8 for machining stainless steel (INOX). The cut impresses with an extremely high stock removal rate and long tool life as well as much lower vibration than comparable cross cuts. Also available with wear-resistant HICOAT coating.

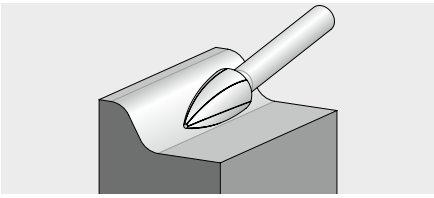


Special features:
- Achieves high surface qualities through optimum chip formation.
- Prevents heat discolouration in the material due to reduced heat production.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	r [mm]	Cut		Item no.	Designation
8	20	6	60	1.5	INOX	1	21103182	B 0820/6 INOX
10	25	6	65	1.7	INOX	1	21103282	B 1025/6 INOX
					INOX HC-STS	1	21103281	B 1025/6 INOX HC-STS
12	30	6	70	2.1	INOX	1	21103382	B 1230/6 INOX
					INOX HC-STS	1	21103381	B 1230/6 INOX HC-STS

Pointed tree shape SPG

Pointed tree-shaped burr according to DIN 8032 with flattened tip for machining stainless steel (INOX). The cut impresses with an extremely high stock removal rate and long tool life as well as much lower vibration than comparable cross cuts. Also available with wear-resistant HICOAT coating.



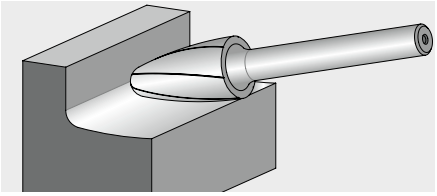
Special features:
- Achieves high surface qualities through optimum chip formation.
- Prevents heat discolouration in the material due to reduced heat production.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	Cut		Item no.	Designation
3	7	3	37	INOX	1	21222582	SPG 0307/3 INOX
	13	3	43	INOX	1	21222682	SPG 0313/3 INOX
6	13	3	43	INOX	1	21222782	SPG 0613/3 INOX
	18	6	55	INOX	1	21122582	SPG 0618/6 INOX
8	20	6	60	INOX	1	21122592	SPG 0820/6 INOX
10	20	6	60	INOX	1	21122682	SPG 1020/6 INOX
				INOX HC-STS	1	21122681	SPG 1020/6 INOX HC-STS
12	25	6	65	INOX	1	21122782	SPG 1225/6 INOX
				INOX HC-STS	1	21122780	SPG 1225/6 INOX HC-STS

TC burrs for high-performance applications
INOX cut for stainless steel (INOX)

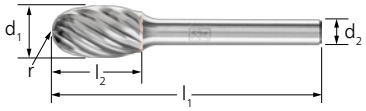
Tree shape with radius end RBF

Tree-shaped burr with radius end according to DIN 8032 for machining stainless steel (INOX). The cut impresses with an extremely high stock removal rate and long tool life as well as much lower vibration than comparable cross cuts. Also available with wear-resistant HICOAT coating.



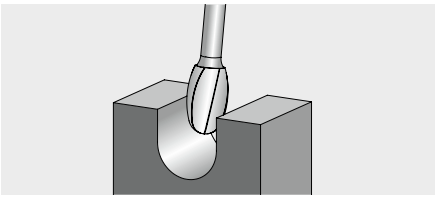
Special features:
- Achieves high surface qualities through optimum chip formation.
- Prevents heat discolouration in the material due to reduced heat production.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	r [mm]	Cut		Item no.	Designation
3	13	3	43	0.75	INOX	1	21218132	RBF 0313/3 INOX
6	13	3	43	1.5	INOX	1	21230082	RBF 0613/3 INOX
	18	6	55	1.5	INOX	1	21117382	RBF 0618/6 INOX
8	20	6	60	1.2	INOX	1	21117682	RBF 0820/6 INOX
10	20	6	60	2.5	INOX	1	21117782	RBF 1020/6 INOX
					INOX HC-STS	1	21117781	RBF 1020/6 INOX HC-STS
12	25	6	65	2.5	INOX	1	21117882	RBF 1225/6 INOX
					INOX HC-STS	1	21117881	RBF 1225/6 INOX HC-STS



Oval shape TRE

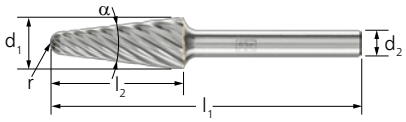
Oval burr according to DIN 8032 for machining stainless steel (INOX). The cut impresses with an extremely high stock removal rate and long tool life as well as much lower vibration than comparable cross cuts. Also available with wear-resistant HICOAT coating.



Special features:
- Achieves high surface qualities through optimum chip formation.
- Prevents heat discolouration in the material due to reduced heat production.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

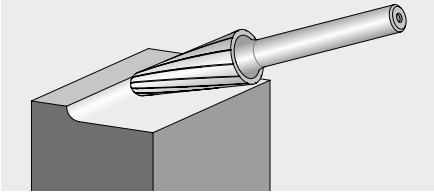
d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	r [mm]	Cut		Item no.	Designation
8	13	6	53	3.7	INOX	1	21135082	TRE 0813/6 INOX
10	16	6	56	4	INOX	1	21134982	TRE 1016/6 INOX
					INOX HC-STS	1	21134981	TRE 1016/6 INOX HC-STS
12	20	6	60	5	INOX	1	21135182	TRE 1220/6 INOX
					INOX HC-STS	1	21135181	TRE 1220/6 INOX HC-STS

TC burrs for high-performance applications
INOX cut for stainless steel (INOX)



Conical shape with radius end KEL

Conical burr with round radius end according to DIN 8032 for machining stainless steel (INOX). The cut impresses with an extremely high stock removal rate and long tool life as well as much lower vibration than comparable cross cuts. Also available with wear-resistant HICOAT coating.



Special features:
- Achieves high surface qualities through optimum chip formation.
- Prevents heat discolouration in the material due to reduced heat production.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	α [°]	r [mm]	Cut		Item no.	Designation
8	20	6	60	16	1.25	INOX	1	21124982	KEL 0820/6 INOX
10	20	6	60	14	2.9	INOX	1	21125082	KEL 1020/6 INOX
						INOX HC-STS	1	21125081	KEL 1020/6 INOX HC-STS
12	30	6	70	14	2.6	INOX	1	21125282	KEL 1230/6 INOX
						INOX HC-STS	1	21125281	KEL 1230/6 INOX HC-STS

Set 1912 INOX

Set 1912 INOX contains five tungsten carbide burrs for processing stainless steel (INOX) in the most common shapes and dimensions.

Contents:
The set comprises one each of the following: ZYA 1225/6 INOX, KUD 1210/6 INOX, WRC 1225/6 INOX, RBF 1225/6 INOX and SPG 1225/6 INOX with a shank diameter of 6 mm, cut INOX.

Special features:
- The sturdy plastic box protects the tools against dirt and damage.
- The burrs are secured at the shanks, facilitating the selection and withdrawal of the tools.
- Five further slots are available for other burrs.

Cut		Item no.	Designation
INOX	1	21901912	SET 1912 INOX 5TLG

Set 1907 INOX

Set 1907 INOX contains three tungsten carbide burrs for processing stainless steel (INOX) in the most common shapes and dimensions.

Contents:
The set comprises one each of the following: ZYAS 1225/6 INOX, WRC 1225/6 INOX and RBF 1225/6 INOX with a shank diameter of 6 mm, cut INOX.

Special features:
- The sturdy plastic box protects the tools against dirt and damage.

Cut		Item no.	Designation
INOX	1	21901907	SET 1907 INOX 3TLG

TC burrs for high-performance applications
INOX cut for stainless steel (INOX)

Set 1906 INOX

Set 1906 INOX contains three tungsten carbide burrs for processing stainless steel (INOX) in the most common shapes and dimensions.

Contents:
The set comprises one each of the following: ZYAS 0616/6 INOX, WRC 0616/6 INOX and RBF 0618/6 INOX with a shank diameter of 6 mm, cut INOX.

Special features:
- The sturdy plastic box protects the tools against dirt and damage.

Cut		Item no.	Designation
INOX	1	21901906	SET 1906 INOX 3TLG

Set 1906 INOX HC-STS

The 1906 INOX HC-STS set contains three tungsten carbide burrs for processing stainless steel (INOX) in the most common shapes and dimensions.

Contents:
The set comprises one each of the following: ZYAS 0616/6 INOX HC-STS, WRC 0616/6 INOX HC-STS and RBF 0618/6 INOX HC-STS with a shank diameter of 6 mm, cut INOX HC-STS.

Special features:
- The sturdy plastic box protects the tools against dirt and damage.

Cut		Item no.	Designation
INOX HC-STS	1	21901905	1906 INOX 3TLG HC-FEP

Set 1907 INOX HC-STS

The 1907 INOX HC-STS set contains three tungsten carbide burrs for processing stainless steel (INOX) in the most common shapes and dimensions.

Contents:
The set comprises one each of the following: ZYAS 1225/6 INOX HC-STS, WRC 1225/6 INOX HC-STS and RBF 1225/6 INOX HC-STS with a shank diameter of 6 mm, cut INOX HC-STS.

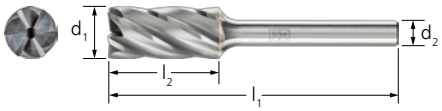
Special features:
- The sturdy plastic box protects the tools against dirt and damage.

Cut		Item no.	Designation
INOX HC-STS	1	21901908	1907 INOX 3TLG HC-FEP

New item

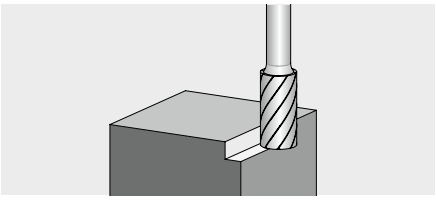
TC burrs for high-performance applications
ALU cut for aluminium/non-ferrous metals

PFERD TOOLS



Cylindrical shape ZYAS with end cut

Cylindrical burr according to DIN 8032 with circumferential and end cut for an extremely high stock removal rate, long tool life and smooth operation when machining aluminium.

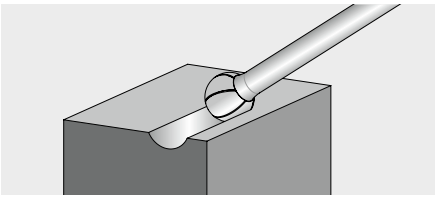


Special features:
- Large chips and reduced material adhesion.
- HC-NFE coating prevents material adhesion when working on long-chipping and lubricating non-ferrous metals.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	Cut		Item no.	Designation
3	13	3	43	ALU HC-NFE	1	21200296	ZYAS 0313/3 ALU HC-NFE
6	13	3	43	ALU HC-NFE	1	21200496	ZYAS 0613/3 ALU HC-NFE
3	13	3	43	ALU	1	21200295	ZYAS 0313/3 ALU
6	13	3	43	ALU	1	21200495	ZYAS 0613/3 ALU
	16	6	55	ALU HC-NFE	1	21100987	ZYAS 0616/6 ALU HC-NFE
				ALU	1	21100986	ZYAS 0616/6 ALU
8	20	6	60	ALU	1	21100388	ZYAS 0820/6 ALU
10	20	6	60	ALU	1	21100786	ZYAS 1020/6 ALU
12	25	6	65	ALU	1	21100586	ZYAS 1225/6 ALU
				ALU HC-NFE	1	21100595	ZYAS 1225/6 ALU HC-NFE
16	25	6	65	ALU	1	21100658	ZYAS 1625/6 ALU
12	25	8	65	ALU	1	21100588	ZYAS 1225/8 ALU

Ball shape KUD

Ball-shaped burr according to DIN 8032 for an extremely high stock removal rate, long tool life and smooth operation when machining aluminium.



Special features:
- Large chips and reduced material adhesion.
- HC-NFE coating prevents material adhesion when working on long-chipping and lubricating non-ferrous metals.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	Cut		Item no.	Designation
3	2	3	33	ALU HC-NFE	1	21211096	KUD 0302/3 ALU HC-NFE
6	5	3	35	ALU HC-NFE	1	21213096	KUD 0605/3 ALU HC-NFE
3	2	3	33	ALU	1	21211095	KUD 0302/3 ALU
6	5	3	35	ALU	1	21213095	KUD 0605/3 ALU
12	5	6	45	ALU HC-NFE	1	21112585	KUD 0605/6 ALU HC-NFE
6	5	6	45	ALU HC-NFE	1	21112586	KUD 0605/6 ALU HC-NFE
8	7	6	47	ALU	1	21112686	KUD 0807/6 ALU
10	9	6	49	ALU	1	21112788	KUD 1009/6 ALU
12	10	6	51	ALU	1	21112886	KUD 1210/6 ALU
				ALU HC-NFE	1	21112901	KUD 1210/6 ALU HC-NFE
16	14	6	54	ALU	1	21112978	KUD 1614/6 ALU

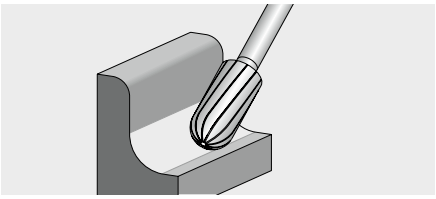
New item

TC burrs for high-performance applications
ALU cut for aluminium/non-ferrous metals

PFERD TOOLS

Cylindrical shape with radius end WRC

Cylindrical burr with radius end according to DIN 8032 for an extremely high stock removal rate, long tool life and smooth operation when machining aluminium.

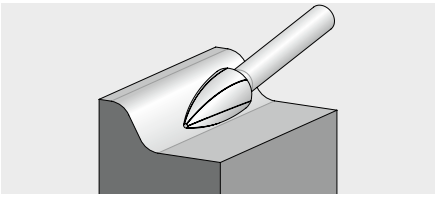


Special features:
- Large chips and reduced material adhesion.
- HC-NFE coating prevents material adhesion when working on long-chipping and lubricating non-ferrous metals.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	Cut		Item no.	Designation
3	13	3	43	ALU HC-NFE	1	21205196	WRC 0313/3 ALU HC-NFE
6	13	3	43	ALU HC-NFE	1	21205296	WRC 0613/3 ALU HC-NFE
3	13	3	43	ALU	1	21205195	WRC 0313/3 ALU
6	13	3	43	ALU	1	21205295	WRC 0613/3 ALU
	16	6	55	ALU HC-NFE	1	21105787	WRC 0616/6 ALU HC-NFE
				ALU	1	21105786	WRC 0616/6 ALU
8	20	6	60	ALU	1	21105188	WRC 0820/6 ALU
10	20	6	60	ALU	1	21105288	WRC 1020/6 ALU
12	25	6	65	ALU	1	21105386	WRC 1225/6 ALU
				ALU HC-NFE	1	21105401	WRC 1225/6 ALU HC-NFE
16	25	6	65	ALU	1	21105458	WRC 1625/6 ALU
12	25	8	65	ALU	1	21105388	WRC 1225/8 ALU

Pointed tree shape SPG

Pointed tree-shaped burr according to DIN 8032, flattened tip for an extremely high stock removal rate, long tool life and smooth operation when machining aluminium.

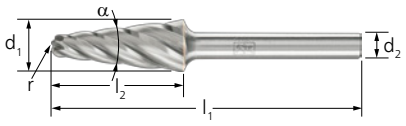


Special features:
- Large chips and reduced material adhesion.
- HC-NFE coating prevents material adhesion when working on long-chipping and lubricating non-ferrous metals.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	Cut		Item no.	Designation
3	13	3	43	ALU HC-NFE	1	21222664	SPG 0313/3 ALU HC-NFE
6	13	3	43	ALU HC-NFE	1	21222764	SPG 0613/3 ALU HC-NFE
3	7	3	37	ALU	1	*21222563*	SPG 0307/3 ALU
	13	3	43	ALU	1	21222663	SPG 0313/3 ALU
6	13	3	43	ALU	1	21222763	SPG 0613/3 ALU
	18	6	55	ALU HC-NFE	1	21122567	SPG 0618/6 ALU HC-NFE
10	20	6	60	ALU HC-NFE	1	21122677	SPG 1020/6 ALU HC-NFE
6	18	6	55	ALU	1	21122566	SPG 0618/6 ALU
8	20	6	60	ALU	1	21122596	SPG 0820/6 ALU
10	20	6	60	ALU	1	21122676	SPG 1020/6 ALU
12	25	6	65	ALU	1	21122766	SPG 1225/6 ALU
				ALU HC-NFE	1	21122767	SPG 1225/6 ALU HC-NFE

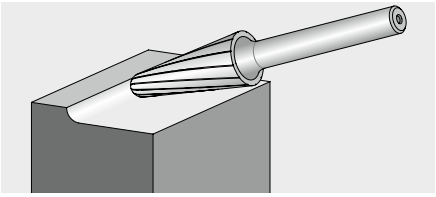
New item
Discontinued product

TC burrs for high-performance applications
ALU cut for aluminium/non-ferrous metals



Conical shape with radius end KEL

Conical burr with round radius end according to DIN 8032 for an extremely high stock removal rate, long tool life and smooth operation when machining aluminium.

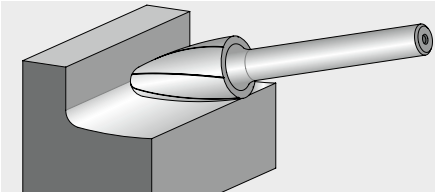


Special features:
- Large chips and reduced material adhesion.
- HC-NFE coating prevents material adhesion when working on long-chipping and lubricating non-ferrous metals.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	α [°]	r [mm]	Cut		Item no.	Designation
8	20	6	60	16	1.25	ALU	1	21124988	KEL 0820/6 ALU
10	20	6	60	14	2.9	ALU	1	21125088	KEL 1020/6 ALU
12	30	6	70	14	2.6	ALU	1	21125286	KEL 1230/6 ALU
						ALU HC-NFE	1	21125285	KEL 1230/6 ALU HC-NFE
16	30	6	70	14	4.8	ALU	1	21125358	KEL 1630/6 ALU
12	30	8	70	14	2.6	ALU	1	21125288	KEL 1230/8 ALU

Tree shape with radius end RBF

Tree-shaped burr with radius end according to DIN 8032 for an extremely high stock removal rate, long tool life and smooth operation when machining aluminium.



Special features:
- Large chips and reduced material adhesion.
- HC-NFE coating prevents material adhesion when working on long-chipping and lubricating non-ferrous metals.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	r [mm]	Cut		Item no.	Designation
3	13	3	43	0.75	ALU HC-NFE	1	21218136	RBF 0313/3 ALU HC-NFE
6	13	3	43	1.5	ALU HC-NFE	1	21230096	RBF 0613/3 ALU HC-NFE
3	13	3	43	0.75	ALU	1	21218135	RBF 0313/3 ALU
6	13	3	43	1.5	ALU	1	21230095	RBF 0613/3 ALU
	18	6	55	1.5	ALU HC-NFE	1	21117385	RBF 0618/6 ALU HC-NFE
					ALU	1	21117386	RBF 0618/6 ALU
8	20	6	60	1.2	ALU	1	21117688	RBF 0820/6 ALU
10	20	6	60	2.5	ALU	1	21117788	RBF 1020/6 ALU
12	25	6	65	2.5	ALU	1	21117886	RBF 1225/6 ALU
					ALU HC-NFE	1	21117885	RBF 1225/6 ALU HC-NFE
16	30	6	70	3.6	ALU	1	21117958	RBF 1630/6 ALU
12	25	8	65	2.5	ALU	1	21117888	RBF 1225/8 ALU

New item

TC burrs for high-performance applications
ALU cut for aluminium/non-ferrous metals

Set 1603 ALU

Set 1603 ALU contains ten small tungsten carbide burrs for processing aluminium in the most common shapes and dimensions.

Contents:
The set comprises one each of the following: ZYAS 0313/3 ALU, ZYAS 0613/3 ALU, KUD 0302/3 ALU, KUD 0605/3 ALU, WRC 0313/3 ALU, WRC 0613/3 ALU, RBF 0313/3 ALU, RBF 0613/3 ALU, SPG 0313/3 ALU and SPG 0613/3 ALU with a shank diameter of 3 mm, cut ALU.

Special features:
- The sturdy plastic box protects the tools against dirt and damage.

Cut		Item no.	Designation
ALU	1	21901603	SET 1603 ALU 10TLG

Set 1606 ALU

The 1606 ALU set contains three tungsten carbide burrs for processing aluminium in the most common shapes and dimensions.

Contents:
The set comprises one each of the following: ZYAS 0616/6 ALU, WRC 0616/6 ALU and RBF 0618/6 ALU with a shank diameter of 6 mm, cut ALU.

Special features:
- The sturdy plastic box protects the tools against dirt and damage.

Cut		Item no.	Designation
ALU	1	21901606	1606 ALU 3TLG

Set 1606 ALU HC-NFE

The 1606 ALU HC-NFE set contains three tungsten carbide burrs with high-quality HICOAT coating for processing aluminium in the most common shapes and dimensions.

Contents:
The set comprises one each of the following: ZYAS 0616/6 ALU HC-NFE, WRC 0616/6 ALU HC-NFE and RBF 0618/6 ALU HC-NFE with a shank diameter of 6 mm, cut ALU HC-NFE.

Special features:
- The sturdy plastic box protects the tools against dirt and damage.

Cut		Item no.	Designation
ALU HC-NFE	1	21901607	1606 ALU 3TLG HC-NFE

New item

TC burrs for high-performance applications
ALU cut for aluminium/non-ferrous metals

Set 1612 ALU

Set 1612 ALU contains five tungsten carbide burrs for processing aluminium in the most common shapes and dimensions.

Contents:
The set comprises one each of the following: ZYAS 1225/6 ALU, KUD 1210/6 ALU, WRC 1225/6 ALU, RBF 1225/6 ALU and KEL 1230/6 ALU with a shank diameter of 6 mm, cut ALU.

Special features:
- The sturdy plastic box protects the tools against dirt and damage.
- The burrs are secured at the shanks, facilitating the selection and withdrawal of the tools.
- Five further slots are available for other burrs.

Cut		Item no.	Designation
ALU	1	21901612	SET 1612 ALU 5TLG

Set 1613 ALU

The 1613 ALU set contains three tungsten carbide burrs for processing aluminium in the most common shapes and dimensions.

Contents:
The set comprises one each of the following: ZYAS 1225/6 ALU, WRC 1225/6 ALU and RBF 1225/6 ALU with a shank diameter of 6 mm, cut ALU.

Special features:
- The sturdy plastic box protects the tools against dirt and damage.

Cut		Item no.	Designation
ALU	1	21901613	1613 ALU 3TLG

Set 1613 ALU HC-NFE

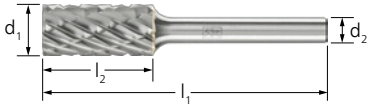
The 1613 ALU HC-NFE set contains three tungsten carbide burrs for processing aluminium in the most common shapes and dimensions.

Contents:
The set comprises one each of the following: ZYAS 1225/6 ALU HC-NFE, WRC 1225/6 ALU HC-NFE and RBF 1225/6 ALU HC-NFE with a shank diameter of 6 mm, cut ALU HC-NFE.

Special features:
- The sturdy plastic box protects the tools against dirt and damage.

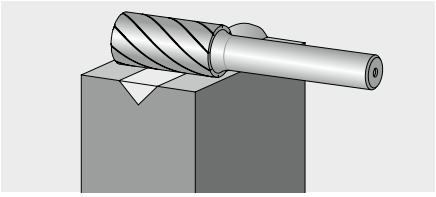
Cut		Item no.	Designation
ALU HC-NFE	1	21901614	1613 ALU 3TLG HC-NFE

New item



Cylindrical shape ZYA without end cut

Cylindrical burr according to DIN 8032 for general-purpose use on non-ferrous metals and fibre-reinforced plastics.

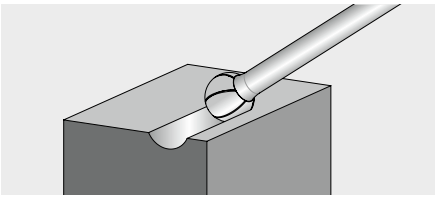


Special features:
- Very good stock removal rate when used on non-ferrous metals such as brass and copper, plastics and fibre-reinforced plastics.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	Cut		Item no.	Designation
6	16	6	55	NON-FERROUS	1	*21101696*	ZYA 0616/6 NON-FERROUS
12	25	6	65	NON-FERROUS	1	21101996	ZYA 1225/6 NON-FERROUS
		8	65	NON-FERROUS	1	*21101998*	ZYA 1225/8 NON-FERROUS

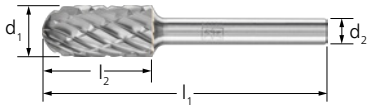
Ball shape KUD

Ball-shaped burr according to DIN 8032 for general-purpose use on non-ferrous metals and fibre-reinforced plastics.



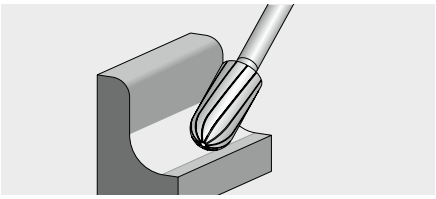
Special features:
- Very good stock removal rate when used on non-ferrous metals such as brass and copper, plastics and fibre-reinforced plastics.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	Cut		Item no.	Designation
8	7	6	47	NON-FERROUS	1	*21112696*	KUD 0807/6 NON-FERROUS
12	10	6	51	NON-FERROUS	1	*21112896*	KUD 1210/6 NON-FERROUS



Cylindrical shape with radius end WRC

Cylindrical burr with radius end according to DIN 8032 for general-purpose use on non-ferrous metals and fibre-reinforced plastics.

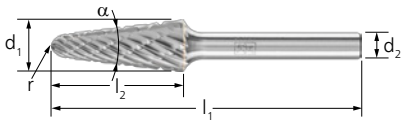


Special features:
- Very good stock removal rate when used on non-ferrous metals such as brass and copper, plastics and fibre-reinforced plastics.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	Cut		Item no.	Designation
6	16	6	55	NON-FERROUS	1	*21105096*	WRC 0616/6 NON-FERROUS
12	25	6	65	NON-FERROUS	1	21105396	WRC 1225/6 NON-FERROUS

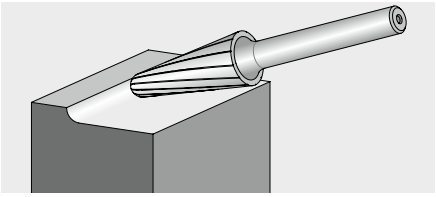
Discontinued product

TC burrs for high-performance applications
NON-FERROUS cut for non-ferrous metals



Conical shape with radius end KEL

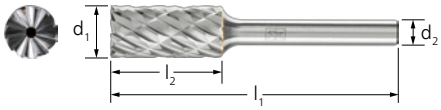
Conical burr with round radius end according to DIN 8032 for general-purpose use on non-ferrous metals and fibre-reinforced plastics.



Special features:
- Very good stock removal rate when used on non-ferrous metals such as brass and copper, plastics and fibre-reinforced plastics.

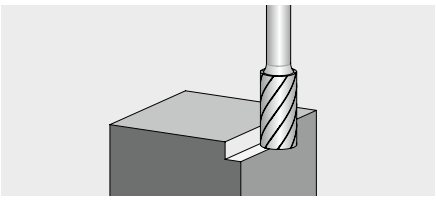
d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	α [°]	r [mm]	Cut		Item no.	Designation
10	20	6	60	14	2.9	NON-FERROUS	1	21125096	KEL 1020/6 NON-FERROUS
12	30	6	70	14	2.6	NON-FERROUS	1	21125296	KEL 1230/6 NON-FERROUS
16	30	8	70	14	4.8	NON-FERROUS	1	*21125398*	KEL 1630/8 NON-FERROUS

CAST cut for cast iron



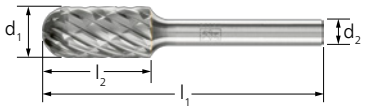
Cylindrical shape ZYAS with end cut

Cylindrical burr according to DIN 8032 with circumferential and end cut for machining cast iron. The cut impresses with its smooth milling performance with considerably reduced vibration and less noise.



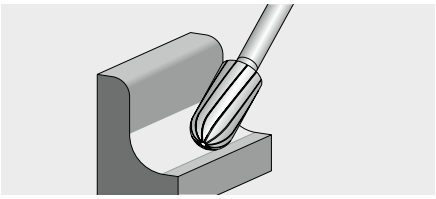
Special features:
- Up to 100% higher stock removal rate on cast iron when compared with conventional cross cuts.
- Tangibly more aggressive, large chips and very good chip removal.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	Cut		Item no.	Designation
6	16	6	55	CAST	1	*21100283*	ZYAS 0616/6 CAST
10	20	6	60	CAST	1	*21100483*	ZYAS 1020/6 CAST
12	25	6	65	CAST	1	21100583	ZYAS 1225/6 CAST
		8	65	CAST	1	21100585	ZYAS 1225/8 CAST



Cylindrical shape with radius end WRC

Cylindrical burr with radius end according to DIN 8032 for machining cast iron. The cut impresses with its smooth milling performance with considerably reduced vibration and less noise.



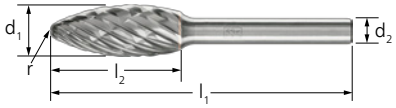
Special features:
- Up to 100% higher stock removal rate on cast iron when compared with conventional cross cuts.
- Tangibly more aggressive, large chips and very good chip removal.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	Cut		Item no.	Designation
6	16	6	55	CAST	1	*21105083*	WRC 0616/6 CAST
10	20	6	60	CAST	1	21105283	WRC 1020/6 CAST
12	25	6	65	CAST	1	21105383	WRC 1225/6 CAST
		8	65	CAST	1	*21105385*	WRC 1225/8 CAST

Discontinued product

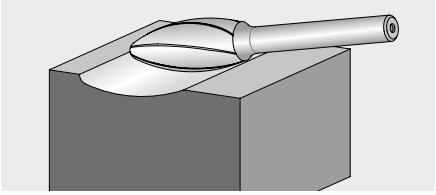
TC burrs for high-performance applications
CAST cut for cast iron

PFERD TOOLS



Flame-shaped B

Flame-shaped burr according to ISO 7755/8 for machining cast iron. The cut impresses with its smooth milling performance with considerably reduced vibration and less noise.

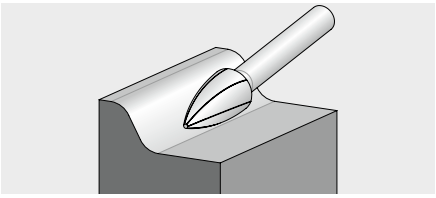


Special features:
- Up to 100% higher stock removal rate on cast iron when compared with conventional cross cuts.
- Tangibly more aggressive, large chips and very good chip removal.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	r [mm]	Cut		Item no.	Designation
12	30	6	70	2.1	CAST	1	21103383	B 1230/6 CAST
		8	70	2.1	CAST	1	*21103384*	B 1230/8 CAST

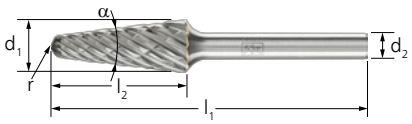
Pointed tree shape SPG

Pointed tree-shaped burr according to DIN 8032 with flattened tip for machining cast iron. The cut impresses with its smooth milling performance with considerably reduced vibration and less noise.



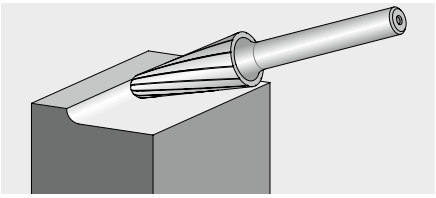
Special features:
- Up to 100% higher stock removal rate on cast iron when compared with conventional cross cuts.
- Tangibly more aggressive, large chips and very good chip removal.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	Cut		Item no.	Designation
10	20	6	60	CAST	1	*21122683*	SPG 1020/6 CAST
12	25	6	65	CAST	1	21122783	SPG 1225/6 CAST



Conical shape with radius end KEL

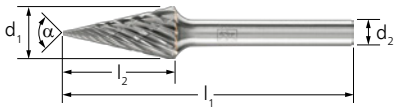
Conical burr with round radius end according to DIN 8032 for machining cast iron. The cut impresses with its smooth milling performance with considerably reduced vibration and less noise.



Special features:
- Up to 100% higher stock removal rate on cast iron when compared with conventional cross cuts.
- Tangibly more aggressive, large chips and very good chip removal.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

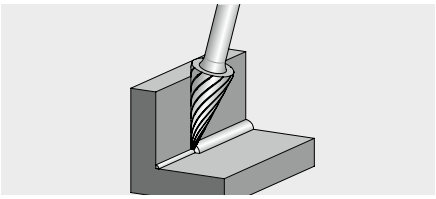
d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	α [°]	r [mm]	Cut		Item no.	Designation
12	30	6	70	14	2.6	CAST	1	21125283	KEL 1230/6 CAST
		8	70	14	2.6	CAST	1	21125284	KEL 1230/8 CAST

Discontinued product



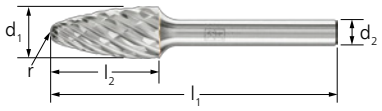
Conical pointed shape SKM

Conical pointed burr according to DIN 8032 with flattened tip for machining cast iron. The cut impresses with its smooth milling performance with considerably reduced vibration and less noise.



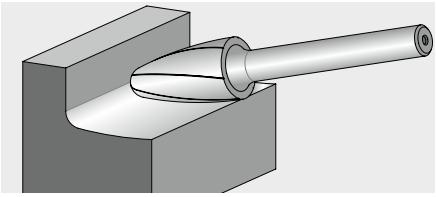
Special features:
- Up to 100% higher stock removal rate on cast iron when compared with conventional cross cuts.
- Tangibly more aggressive, large chips and very good chip removal.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	α [°]	Cut		Item no.	Designation
12	25	6	65	26	CAST	1	21115283	SKM 1225/6 CAST



Tree shape with radius end RBF

Tree-shaped burr with radius end according to DIN 8032 for machining cast iron. The cut impresses with its smooth milling performance with considerably reduced vibration and less noise.

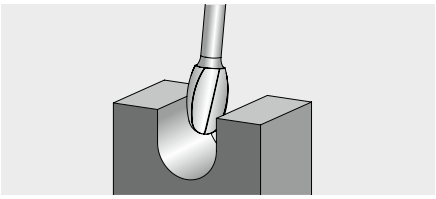


Special features:
- Up to 100% higher stock removal rate on cast iron when compared with conventional cross cuts.
- Tangibly more aggressive, large chips and very good chip removal.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	r [mm]	Cut		Item no.	Designation
6	18	6	55	1.5	CAST	1	*21117383*	RBF 0618/6 CAST
10	20	6	60	2.5	CAST	1	21117783	RBF 1020/6 CAST
12	25	6	65	2.5	CAST	1	21117883	RBF 1225/6 CAST
		8	65	2.5	CAST	1	21117877	RBF 1225/8 CAST

Oval shape TRE

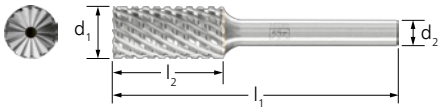
Oval burr according to DIN 8032 for machining cast iron. The cut impresses with its smooth milling performance with considerably reduced vibration and less noise.



Special features:
- Up to 100% higher stock removal rate on cast iron when compared with conventional cross cuts.
- Tangibly more aggressive, large chips and very good chip removal.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

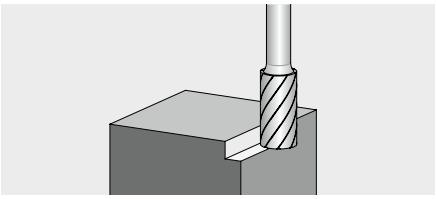
d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	r [mm]	Cut		Item no.	Designation
12	20	6	60	5	CAST	1	*21135183*	TRE 1220/6 CAST

TC burrs for high-performance applications
TITANIUM cut for titanium



Cylindrical shape ZYAS with end cut

Cylindrical burr according to DIN 8032 with circumferential and end cut for work on hard titanium materials (tensile strength > 500 N/mm²). The cut impresses with its smooth milling performance with considerably reduced vibration and less noise.

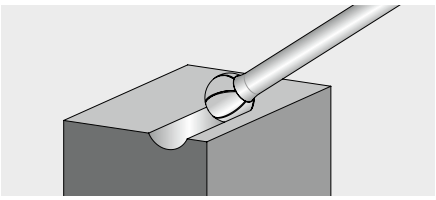


Special features:
- Excellent stock removal rate and tool life due to innovative tooth geometry.
- Tangibly more aggressive, large chips and very good chip removal.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	Cut	RPM		Item no.	Designation
3	13	3	43	TITANIUM	27,000 – 48,000	1	21200284	ZYAS 0313/3 TITANIUM
6	13	3	43	TITANIUM	13,000 – 24,000	1	*21200484*	ZYAS 0613/3 TITANIUM
	16	6	55	TITANIUM	13,000 – 24,000	1	*21100284*	ZYAS 0616/6 TITANIUM
12	25	6	65	TITANIUM	7,000 – 12,000	1	21100584	ZYAS 1225/6 TITANIUM

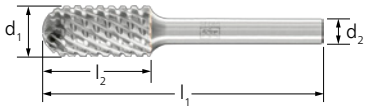
Ball shape KUD

Ball-shaped burr according to DIN 8032 for work on hard titanium materials (tensile strength > 500 N/mm²). The cut impresses with its smooth milling performance with considerably reduced vibration and less noise.



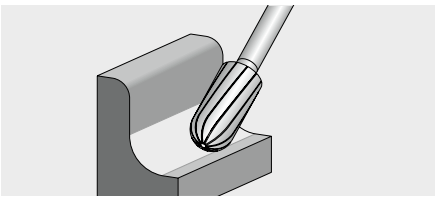
Special features:
- Excellent stock removal rate and tool life due to innovative tooth geometry.
- Tangibly more aggressive, large chips and very good chip removal.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	Cut	RPM		Item no.	Designation
3	2	3	33	TITANIUM	27,000 – 48,000	1	21211084	KUD 0302/3 TITANIUM
4	3	3	34	TITANIUM	20,000 – 36,000	1	*21212584*	KUD 0403/3 TITANIUM
5	4	3	35	TITANIUM	16,000 – 29,000	1	*21212684*	KUD 0504/3 TITANIUM
6	5	3	35	TITANIUM	13,000 – 24,000	1	*21213084*	KUD 0605/3 TITANIUM
		6	45	TITANIUM	13,000 – 24,000	1	21112584	KUD 0605/6 TITANIUM
12	10	6	51	TITANIUM	7,000 – 12,000	1	21112884	KUD 1210/6 TITANIUM



Cylindrical shape with radius end WRC

Cylindrical burr with radius end according to DIN 8032 for work on hard titanium materials (tensile strength > 500 N/mm²). The cut impresses with its smooth milling performance with considerably reduced vibration and less noise.

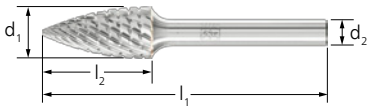


Special features:
- Excellent stock removal rate and tool life due to innovative tooth geometry.
- Tangibly more aggressive, large chips and very good chip removal.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	Cut	RPM		Item no.	Designation
3	13	3	43	TITANIUM	27,000 – 48,000	1	21205184	WRC 0313/3 TITANIUM
6	13	3	43	TITANIUM	13,000 – 24,000	1	*21205284*	WRC 0613/3 TITANIUM
	16	6	55	TITANIUM	13,000 – 24,000	1	21105084	WRC 0616/6 TITANIUM
12	25	6	65	TITANIUM	7,000 – 12,000	1	21105384	WRC 1225/6 TITANIUM

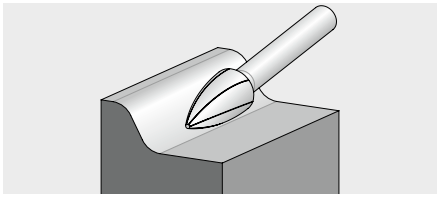
Discontinued product

TC burrs for high-performance applications
TITANIUM cut for titanium



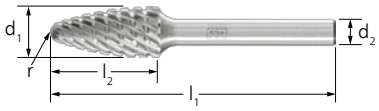
Pointed tree shape SPG

Pointed tree-shaped burr according to DIN 8032 with flattened tip for work on hard titanium materials (tensile strength > 500 N/mm²). The cut impresses with its smooth milling performance with considerably reduced vibration and less noise.



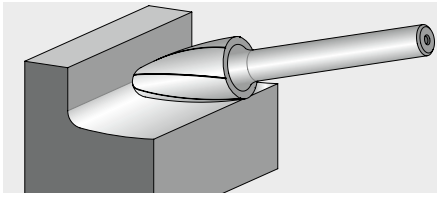
Special features:
- Excellent stock removal rate and tool life due to innovative tooth geometry.
- Tangibly more aggressive, large chips and very good chip removal.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	Cut	RPM		Item no.	Designation
3	13	3	43	TITANIUM	27,000 – 48,000	1	21222684	SPG 0313/3 TITANIUM
6	13	3	43	TITANIUM	13,000 – 24,000	1	*21222784*	SPG 0613/3 TITANIUM
	18	6	55	TITANIUM	13,000 – 24,000	1	*21122584*	SPG 0618/6 TITANIUM
12	25	6	65	TITANIUM	7,000 – 12,000	1	21122784	SPG 1225/6 TITANIUM



Tree shape with radius end RBF

Tree-shaped burr with radius end according to DIN 8032 for work on hard titanium materials (tensile strength > 500 N/mm²). The cut impresses with its smooth milling performance with considerably reduced vibration and less noise.



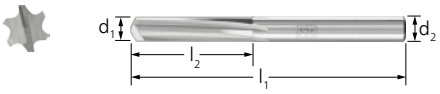
Special features:
- Excellent stock removal rate and tool life due to innovative tooth geometry.
- Tangibly more aggressive, large chips and very good chip removal.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	r [mm]	Cut	RPM		Item no.	Designation
3	13	3	43	0.75	TITANIUM	27,000 – 48,000	1	21218184	RBF 0313/3 TITANIUM
6	13	3	43	1.5	TITANIUM	13,000 – 24,000	1	21230084	RBF 0613/3 TITANIUM
	18	6	55	1.5	TITANIUM	13,000 – 24,000	1	*21117384*	RBF 0618/6 TITANIUM
12	25	6	65	2.5	TITANIUM	7,000 – 12,000	1	21117884	RBF 1225/6 TITANIUM

Discontinued product

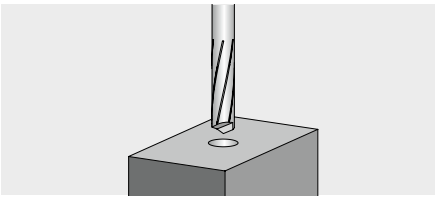
TC burrs for high-performance applications
PLAST cut for GRP/CRP

PFERD TOOLS



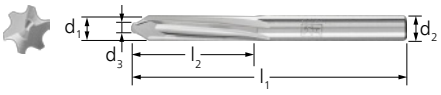
Cylindrical shape ZYA with drill cut (BS)

Cylindrical burr with drill cut (BS) for use on less hard duroplastics (GRP and CRP ≤ 40% fibre content) and fibre-reinforced thermoplastics.



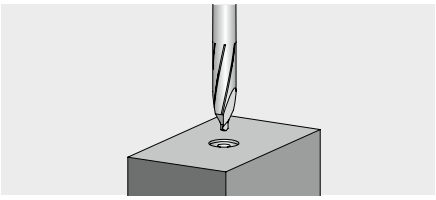
Special features:
- Minimizes delamination and fraying.
- Enables very low cutting forces and high feed rates.
- For combined drilling and milling work in manual, machine and robot applications.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	Cut		Item no.	Designation
6	25	6	65	PLAST	1	*21455696*	ZYA 0625/6 PLAST BS
8	25	8	65	PLAST	1	*21455896*	ZYA 0825/8 PLAST BS



Cylindrical shape ZYA with centre drill (ZBS)

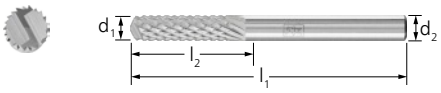
Cylindrical burr with centre drill (ZBS) for use on less hard duroplastics (GRP and CRP ≤ 40% fibre content) and fibre-reinforced thermoplastics.



Special features:
- Minimizes delamination and fraying.
- Enables very low cutting forces and high feed rates.
- For combined drilling and milling work in manual, machine and robot applications.

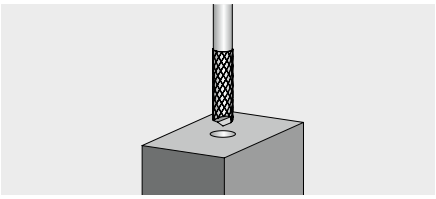
d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	Centre drill diameter d_3 [mm]	Cut		Item no.	Designation
6	25	6	65	2.5	PLAST	1	21456696	ZYA 0625/6 PLAST ZBS

FVK and FVKS cuts for GRP/CRP



Cylindrical shape ZYA with drill cut (BS)

Cylindrical burr with drill cut (BS) for general use on hard duroplastics (also GRP and CRP with > 40% fibre content).

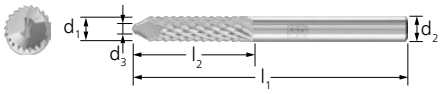


Special features:
- For combined drilling and milling work in manual, machine and robot applications.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	Cut	RPM		Item no.	Designation
6	25	6	65	FVK	24,000 – 48,000	1	21458696	ZYA 0625/6 FVK BS
				FVKS	24,000 – 48,000	1	21458697	ZYA 0625/6 FVKS BS
8	25	8	65	FVK	18,000 – 36,000	1	*21458898*	ZYA 0825/8 FVK BS
				FVKS	18,000 – 36,000	1	*21458897*	ZYA 0825/8 FVKS BS

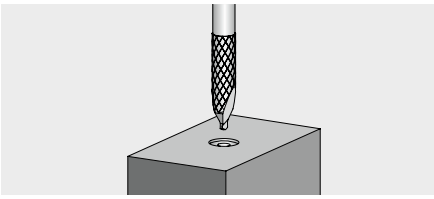
Discontinued product

TC burrs for high-performance applications
FVK and FVKS cuts for GRP/CRP



Cylindrical shape ZYA with centre drill (ZBS)

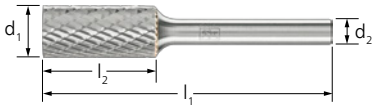
Cylindrical burr with centre drill (ZBS) for general use on hard duroplastics (also GRP and CRP with > 40% fibre content).



Special features:
- For combined drilling and milling work in manual, machine and robot applications.

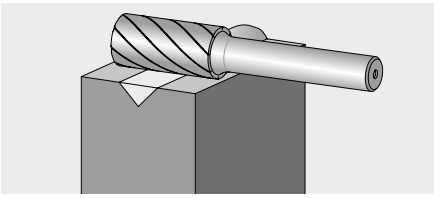
d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	Cut	RPM		Item no.	Designation
6	25	6	65	FVK	24,000 – 48,000	1	21457696	ZYA 0625/6 FVK ZBS
				FVKS	24,000 – 48,000	1	21457697	ZYA 0625/6 FVKS ZBS

TOUGH and TOUGH-S cuts for tough applications



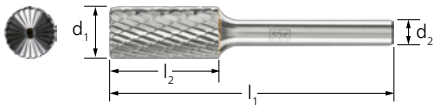
Cylindrical shape ZYA without end cut

Cylindrical burr according to DIN 8032 for tough applications in dockyards, foundries and steel construction. The extremely impact-resistant cut minimizes tooth chipping/breakage, splintering and burr failure. Ideal for use as long-shank variants.



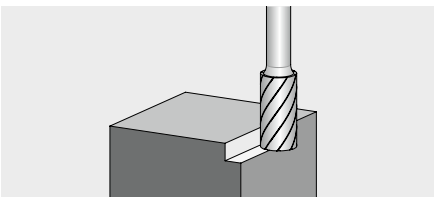
Special features:
- Can also be used in low rotational speed ranges.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	Cut		Item no.	Designation
8	20	6	60	TOUGH	1	*21000013*	ZYA 0820/6 TOUGH
10	20	6	60	TOUGH	1	*21000015*	ZYA 1020/6 TOUGH
12	25	6	65	TOUGH	1	*21000016*	ZYA 1225/6 TOUGH
				TOUGH-S	1	*21000017*	ZYA 1225/6 TOUGH-S



Cylindrical shape ZYAS with end cut

Cylindrical burr according to DIN 8032 with circumferential and end cut for tough applications in dockyards, foundries and steel construction. The extremely impact-resistant cut minimizes tooth chipping/breakage, splintering and burr failure. Ideal for use as long-shank variants.



Special features:
- Can also be used in low rotational speed ranges.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	Cut		Item no.	Designation
8	20	6	60	TOUGH	1	21000003	ZYAS 0820/6 TOUGH
10	20	6	60	TOUGH	1	21000005	ZYAS 1020/6 TOUGH
12	25	6	65	TOUGH	1	21000007	ZYAS 1225/6 TOUGH
		8	65	TOUGH	1	*21000006*	ZYAS 1225/8 TOUGH

Discontinued product

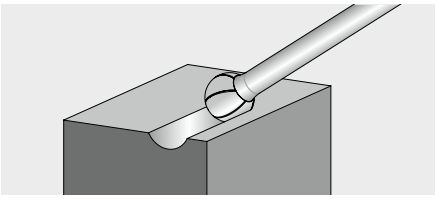
TC burrs for high-performance applications

TOUGH and TOUGH-S cuts for tough applications

PFERD TOOLS

Ball shape KUD

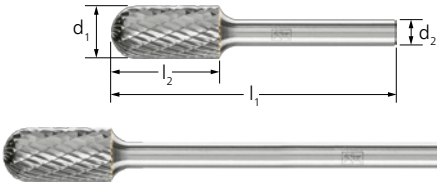
Ball-shaped burr according to DIN 8032 for tough applications in dockyards, foundries and steel construction. The extremely impact-resistant cut minimizes tooth chipping/breakage, splintering and burr failure. Ideal for use as long-shank variants.



Special features:

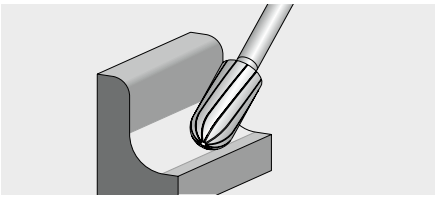
- Can also be used in low rotational speed ranges.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	Cut		Item no.	Designation
8	7	6	47	TOUGH	1	*21000054*	KUD 0807/6 TOUGH
12	10	6	51	TOUGH	1	*21000056*	KUD 1210/6 TOUGH



Cylindrical shape with radius end WRC

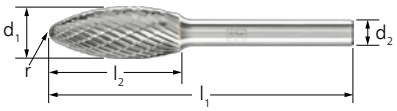
Cylindrical burr with radius end according to DIN 8032 for tough applications in dockyards, foundries and steel construction. The extremely impact-resistant cut minimizes tooth chipping/breakage, splintering and burr failure. Ideal for use as long-shank variants.



Special features:

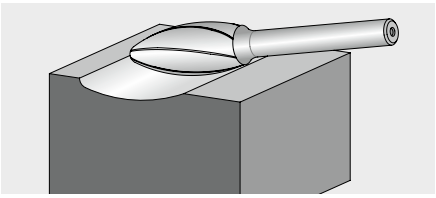
- Can also be used in low rotational speed ranges.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	Cut		Item no.	Designation
8	20	6	60	TOUGH	1	21000033	WRC 0820/6 TOUGH
10	20	6	60	TOUGH	1	21000035	WRC 1020/6 TOUGH
12	25	6	65	TOUGH	1	21000036	WRC 1225/6 TOUGH
				TOUGH-S	1	21000038	WRC 1225/6 TOUGH-S
			175	TOUGH	1	21000130	WRC 1225/6 TOUGH SL 150
		8	65	TOUGH	1	21000037	WRC 1225/8 TOUGH



Flame-shaped B

Flame-shaped burr according to ISO 7755/8 for tough applications in dockyards, foundries and steel construction. The extremely impact-resistant cut minimizes tooth chipping/breakage, splintering and burr failure. Ideal for use as long-shank variants.



Special features:

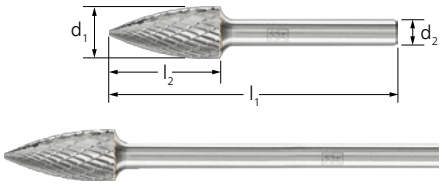
- Can also be used in low rotational speed ranges.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	r [mm]	Cut		Item no.	Designation
8	20	6	60	1.5	TOUGH	1	21000023	B 0820/6 TOUGH
12	30	6	70	2.1	TOUGH	1	*21000026*	B 1230/6 TOUGH
		8	70	2.1	TOUGH	1	*21000027*	B 1230/8 TOUGH

Discontinued product

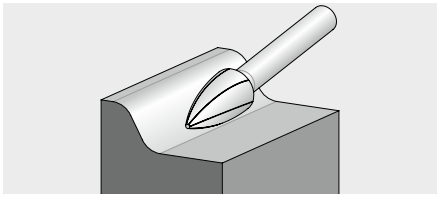
TC burrs for high-performance applications
TOUGH and TOUGH-S cuts for tough applications

PFERD TOOLS



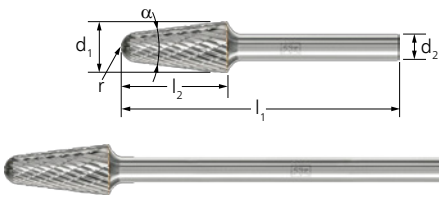
Pointed tree shape SPG

Pointed tree-shaped burr according to DIN 8032 with flattened tip for tough applications in dockyards, foundries and steel construction. The extremely impact-resistant cut minimizes tooth chipping/breakage, splintering and burr failure. Ideal for use as long-shank variants.



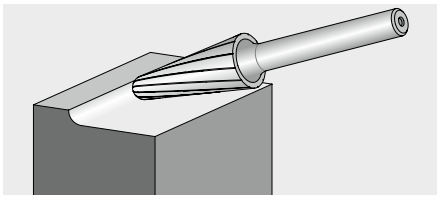
Special features:
- Can also be used in low rotational speed ranges.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	Cut		Item no.	Designation
10	20	6	60	TOUGH	1	21000095	SPG 1020/6 TOUGH
				TOUGH-S	1	*21000096*	SPG 1020/6 TOUGH-S
12	25	6	65	TOUGH	1	21000097	SPG 1225/6 TOUGH
		8	65	TOUGH	1	*21000098*	SPG 1225/8 TOUGH



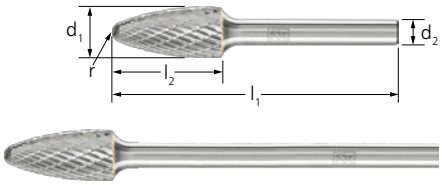
Conical shape with radius end KEL

Conical burr with round radius end according to DIN 8032 for tough applications in dockyards, foundries and steel construction. The extremely impact-resistant cut minimizes tooth chipping/breakage, splintering and burr failure. Ideal for use as long-shank variants.



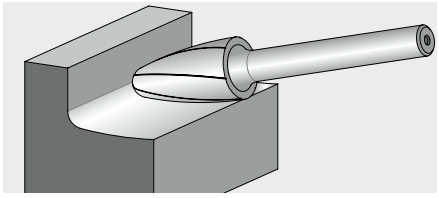
Special features:
- Can also be used in low rotational speed ranges.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	α [°]	r [mm]	Cut		Item no.	Designation
12	25	6	65	14	3.3	TOUGH	1	21000116	KEL 1225/6 TOUGH
			175	14	3.3	TOUGH	1	*21000131*	KEL 1225/6 TOUGH SL 150
		8	65	14	3.3	TOUGH	1	21000117	KEL 1225/8 TOUGH



Tree shape with radius end RBF

Tree-shaped burr with radius end according to DIN 8032 for tough applications in dockyards, foundries and steel construction. The extremely impact-resistant cut minimizes tooth chipping/breakage, splintering and burr failure. Ideal for use as long-shank variants.

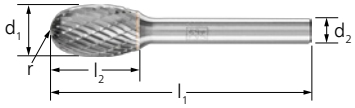


Special features:
- Can also be used in low rotational speed ranges.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	r [mm]	Cut		Item no.	Designation
8	20	6	60	1.2	TOUGH	1	21000073	RBF 0820/6 TOUGH
10	20	6	60	2.5	TOUGH	1	21000075	RBF 1020/6 TOUGH
12	25	6	65	2.5	TOUGH	1	21000076	RBF 1225/6 TOUGH
					TOUGH-S	1	21000078	RBF 1225/6 TOUGH-S
16	25	6	65	4.9	TOUGH	1	*21000080*	RBF 1625/6 TOUGH
12	25	6	175	2.5	TOUGH	1	21000129	RBF 1225/6 TOUGH SL 150
		8	65	2.5	TOUGH	1	*21000077*	RBF 1225/8 TOUGH
					TOUGH-S	1	21000079	RBF 1225/8 TOUGH-S

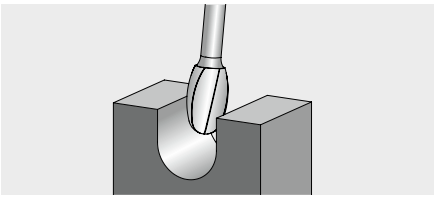
Discontinued product

TC burrs for high-performance applications
TOUGH and TOUGH-S cuts for tough applications



Oval shape TRE

Oval burr according to DIN 8032 for tough applications in dockyards, foundries and steel construction. The extremely impact-resistant cut minimizes tooth chipping/breakage, splintering and burr failure. Ideal for use as long-shank variants.



Special features:
- Can also be used in low rotational speed ranges.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	r [mm]	Cut		Item no.	Designation
10	16	6	56	4	TOUGH	1	21000124	TRE 1016/6 TOUGH
12	20	6	60	5	TOUGH	1	21000126	TRE 1220/6 TOUGH

Set 1712 TOUGH

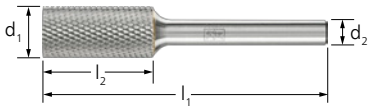
Set 1712 TOUGH contains five tungsten carbide burrs for tough applications in the most common shapes and dimensions.

Contents:
The set comprises one each of the following: WRC 1225/6 TOUGH, SPG 1225/6 TOUGH, RBF 1225/6 TOUGH, KEL 1225/6 TOUGH and TRE 1220/6 TOUGH with a shank diameter of 6 mm, cut TOUGH.

Special features:
- Five further unused slots are available for other burrs.
- The sturdy plastic box protects the tools against dirt and damage.
- The burrs are secured at the shanks, facilitating the selection and withdrawal of the tools.

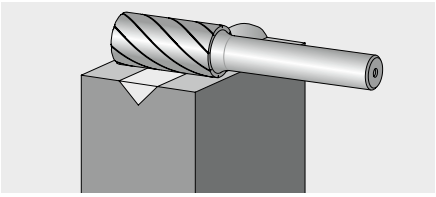
Cut		Item no.	Designation
TOUGH	1	21901712	SET 1712 TOUGH 5TLG

TC burrs for high-performance applications
MICRO cut for finishing work



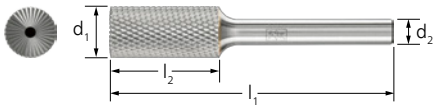
Cylindrical shape ZYA without end cut

Cylindrical burr according to DIN 8032 for fine stock removal. Burrs with the MICRO cut offer a higher stock removal rate than mounted/grinding points and impress with their high surface quality. They also operate with low vibration and little noise. Also available with wear-resistant HICOAT coating.



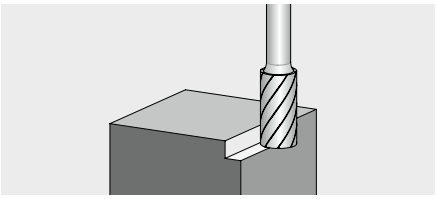
Special features:
- Unlike with mounted grinding points, there is no change in geometry due to wear and tear.
- Use on almost all materials up to 68 HRC.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	Cut		Item no.	Designation
3	13	3	43	MICRO HC-FEP	1	21201274	ZYA 0313/3 MICRO HC-FEP
4	13	3	43	MICRO HC-FEP	1	21201304	ZYA 0413/3 MICRO HC-FEP
6	13	3	43	MICRO HC-FEP	1	21201474	ZYA 0613/3 MICRO HC-FEP
2	10	3	40	MICRO	1	21201173	ZYA 0210/3 MICRO
3	13	3	43	MICRO	1	21201273	ZYA 0313/3 MICRO
4	13	3	43	MICRO	1	21201303	ZYA 0413/3 MICRO
6	13	3	43	MICRO	1	21201473	ZYA 0613/3 MICRO
	16	6	55	MICRO HC-FEP	1	21101677	ZYA 0616/6 MICRO HC-FEP
8	20	6	60	MICRO HC-FEP	1	21101777	ZYA 0820/6 MICRO HC-FEP
10	20	6	60	MICRO HC-FEP	1	21102177	ZYA 1020/6 MICRO HC-FEP
12	25	6	65	MICRO HC-FEP	1	21101977	ZYA 1225/6 MICRO HC-FEP
6	16	6	55	MICRO	1	21101676	ZYA 0616/6 MICRO
8	20	6	60	MICRO	1	21101776	ZYA 0820/6 MICRO
10	20	6	60	MICRO	1	21102176	ZYA 1020/6 MICRO
12	25	6	65	MICRO	1	21101976	ZYA 1225/6 MICRO



Cylindrical shape ZYAS with end cut

Cylindrical burr according to DIN 8032 with circumferential and end cut for fine stock removal. Burrs with the MICRO cut offer a higher stock removal rate than mounted/grinding points and impress with their high surface quality. They also operate with low vibration and little noise. Also available with wear-resistant HICOAT coating.



Special features:
- Unlike with mounted grinding points, there is no change in geometry due to wear and tear.
- Use on almost all materials up to 68 HRC.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	Cut		Item no.	Designation
6	16	6	55	MICRO HC-FEP	1	21100277	ZYAS 0616/6 MICRO HC-FEP
8	20	6	60	MICRO HC-FEP	1	21100377	ZYAS 0820/6 MICRO HC-FEP
10	20	6	60	MICRO HC-FEP	1	21100777	ZYAS 1020/6 MICRO HC-FEP
12	25	6	65	MICRO HC-FEP	1	21100577	ZYAS 1225/6 MICRO HC-FEP
6	16	6	55	MICRO	1	21100276	ZYAS 0616/6 MICRO
8	20	6	60	MICRO	1	21100376	ZYAS 0820/6 MICRO
10	20	6	60	MICRO	1	21100776	ZYAS 1020/6 MICRO
12	25	6	65	MICRO	1	21100576	ZYAS 1225/6 MICRO

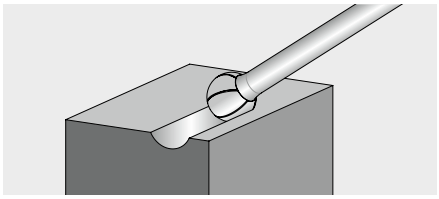
New item

TC burrs for high-performance applications
MICRO cut for finishing work

PFERD TOOLS

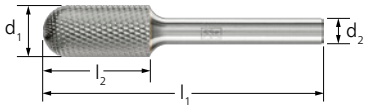
Ball shape KUD

Ball-shaped burr according to DIN 8032 for fine stock removal. Burrs with the MICRO cut offer a higher stock removal rate than mounted/grinding points and impress with their high surface quality. They also operate with low vibration and little noise. Also available with wear-resistant HICOAT coating.



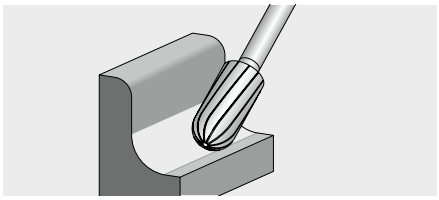
Special features:
- Unlike with mounted grinding points, there is no change in geometry due to wear and tear.
- Use on almost all materials up to 68 HRC.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	Cut		Item no.	Designation
3	2	3	33	MICRO HC-FEP	1	21211074	KUD 0302/3 MICRO HC-FEP
4	3	3	45	MICRO HC-FEP	1	21212574	KUD 0403/3 MICRO HC-FEP
6	5	3	35	MICRO HC-FEP	1	21213074	KUD 0605/3 MICRO HC-FEP
2	1.5	3	33	MICRO	1	21211033	KUD 021,5/3 MICRO
3	2	3	33	MICRO	1	21211073	KUD 0302/3 MICRO
4	3	3	34	MICRO	1	21212573	KUD 0403/3 MICRO
6	5	3	35	MICRO	1	21213073	KUD 0605/3 MICRO
		6	45	MICRO HC-FEP	1	21112577	KUD 0605/6 MICRO HC-FEP
8	7	6	47	MICRO HC-FEP	1	21112677	KUD 0807/6 MICRO HC-FEP
10	9	6	49	MICRO HC-FEP	1	21112777	KUD 1009/6 MICRO HC-FEP
12	10	6	51	MICRO HC-FEP	1	21112877	KUD 1210/6 MICRO HC-FEP
16	14	6	54	MICRO HC-FEP	1	21112977	KUD 1614/6 MICRO HC-FEP
6	5	6	45	MICRO	1	21112576	KUD 0605/6 MICRO
8	7	6	47	MICRO	1	21112676	KUD 0807/6 MICRO
10	9	6	49	MICRO	1	21112776	KUD 1009/6 MICRO
12	10	6	51	MICRO	1	21112876	KUD 1210/6 MICRO



Cylindrical shape with radius end WRC

Cylindrical burr with radius end according to DIN 8032 for fine stock removal. Burrs with the MICRO cut offer a higher stock removal rate than mounted/grinding points and impress with their high surface quality. They also operate with low vibration and little noise. Also available with wear-resistant HICOAT coating.



Special features:
- Unlike with mounted grinding points, there is no change in geometry due to wear and tear.
- Use on almost all materials up to 68 HRC.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	Cut		Item no.	Designation
3	13	3	43	MICRO HC-FEP	1	21205174	WRC 0313/3 MICRO HC-FEP
6	13	3	43	MICRO HC-FEP	1	21205274	WRC 0613/3 MICRO HC-FEP
2	10	3	40	MICRO	1	21205073	WRC 0210/3 MICRO
3	13	3	43	MICRO	1	21205173	WRC 0313/3 MICRO
6	13	3	43	MICRO	1	21205273	WRC 0613/3 MICRO
	16	6	55	MICRO HC-FEP	1	21105077	WRC 0616/6 MICRO HC-FEP
8	20	6	60	MICRO HC-FEP	1	21105177	WRC 0820/6 MICRO HC-FEP
10	20	6	60	MICRO HC-FEP	1	21105277	WRC 1020/6 MICRO HC-FEP
12	25	6	65	MICRO HC-FEP	1	21105377	WRC 1225/6 MICRO HC-FEP
6	16	6	55	MICRO	1	21105076	WRC 0616/6 MICRO
8	20	6	60	MICRO	1	21105176	WRC 0820/6 MICRO

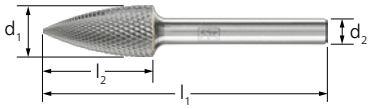
Continued on next page

New item

TC burrs for high-performance applications
MICRO cut for finishing work

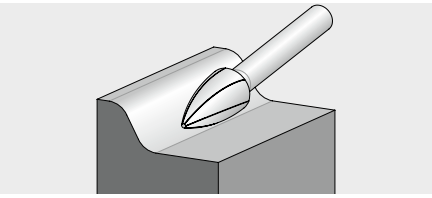
PFERD TOOLS

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	Cut		Item no.	Designation
10	20	6	60	MICRO	1	21105276	WRC 1020/6 MICRO
12	25	6	65	MICRO	1	21105376	WRC 1225/6 MICRO



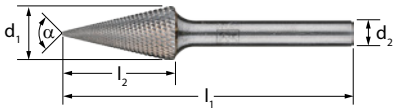
Pointed tree shape SPG

Pointed tree-shaped burr according to DIN 8032 with flattened tip for fine stock removal. Burrs with the MICRO cut offer a higher stock removal rate than mounted/grinding points and impress with their high surface quality. They also operate with low vibration and little noise. Also available with wear-resistant HICOAT coating.



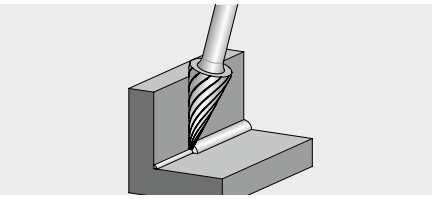
Special features:
- Unlike with mounted grinding points, there is no change in geometry due to wear and tear.
- Use on almost all materials up to 68 HRC.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	Cut		Item no.	Designation
3	7	3	37	MICRO HC-FEP	1	21222574	SPG 0307/3 MICRO HC-FEP
	13	3	43	MICRO HC-FEP	1	21222674	SPG 0313/3 MICRO HC-FEP
6	13	3	43	MICRO HC-FEP	1	21222774	SPG 0613/3 MICRO HC-FEP
3	7	3	37	MICRO	1	21222573	SPG 0307/3 MICRO
	13	3	43	MICRO	1	21222673	SPG 0313/3 MICRO
6	13	3	43	MICRO	1	21222773	SPG 0613/3 MICRO
	18	6	55	MICRO HC-FEP	1	21122577	SPG 0618/6 MICRO HC-FEP
8	20	6	60	MICRO HC-FEP	1	21122598	SPG 0820/6 MICRO HC-FEP
10	20	6	60	MICRO HC-FEP	1	21122672	SPG 1020/6 MICRO HC-FEP
12	25	6	65	MICRO HC-FEP	1	21122777	SPG 1225/6 MICRO HC-FEP
6	18	6	55	MICRO	1	21122573	SPG 0618/6 MICRO
8	20	6	60	MICRO	1	21122593	SPG 0820/6 MICRO
10	20	6	60	MICRO	1	21122673	SPG 1020/6 MICRO
12	25	6	65	MICRO	1	21122773	SPG 1225/6 MICRO



Conical pointed shape SKM

Conical pointed burr according to DIN 8032 with flattened tip for fine stock removal. Burrs with the MICRO cut offer a higher stock removal rate than mounted/grinding points and impress with their high surface quality. They also operate with low vibration and little noise. Also available with wear-resistant HICOAT coating.



Special features:
- Unlike with mounted grinding points, there is no change in geometry due to wear and tear.
- Use on almost all materials up to 68 HRC.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	α [°]	Cut		Item no.	Designation
3	7	3	37	14	MICRO HC-FEP	1	21214074	SKM 0307/3 MICRO HC-FEP
	11	3	41	14	MICRO HC-FEP	1	21214174	SKM 0311/3 MICRO HC-FEP
6	13	3	43	25	MICRO HC-FEP	1	21215074	SKM 0613/3 MICRO HC-FEP
3	7	3	37	21	MICRO	1	21214073	SKM 0307/3 MICRO
	11	3	41	14	MICRO	1	21214173	SKM 0311/3 MICRO
6	13	3	43	25	MICRO	1	21215073	SKM 0613/3 MICRO

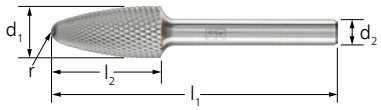
Continued on next page

New item

TC burrs for high-performance applications
MICRO cut for finishing work

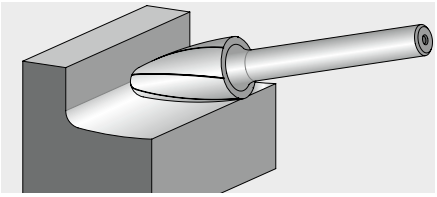
PFERD TOOLS

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	α [°]	Cut		Item no.	Designation
6	18	6	55	18	MICRO HC-FEP	1	21115075	SKM 0618/6 MICRO HC-FEP
8	20	6	60	22	MICRO HC-FEP	1	21115085	SKM 0820/6 MICRO HC-FEP
10	20	6	60	28	MICRO HC-FEP	1	21115177	SKM 1020/6 MICRO HC-FEP
12	25	6	65	26	MICRO HC-FEP	1	21115277	SKM 1225/6 MICRO HC-FEP
6	18	6	55	18	MICRO	1	21115076	SKM 0618/6 MICRO
8	20	6	60	22	MICRO	1	21115086	SKM 0820/6 MICRO
10	20	6	60	28	MICRO	1	21115176	SKM 1020/6 MICRO
12	25	6	65	26	MICRO	1	21115276	SKM 1225/6 MICRO



Tree shape with radius end RBF

Tree-shaped burr with radius end according to DIN 8032 for fine stock removal. Burrs with the MICRO cut offer a higher stock removal rate than mounted/grinding points and impress with their high surface quality. They also operate with low vibration and little noise. Also available with wear-resistant HICOAT coating.



Special features:

- Unlike with mounted grinding points, there is no change in geometry due to wear and tear.
- Use on almost all materials up to 68 HRC.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	r [mm]	Cut		Item no.	Designation
3	7	3	37	0.75	MICRO HC-FEP	1	21217594	RBF 0307/3 MICRO HC-FEP
	13	3	43	0.75	MICRO HC-FEP	1	21218174	RBF 0313/3 MICRO HC-FEP
6	13	3	43	1.5	MICRO HC-FEP	1	21230074	RBF 0613/3 MICRO HC-FEP
3	7	3	37	0.75	MICRO	1	21217593	RBF 0307/3 MICRO
	13	3	43	0.75	MICRO	1	21218173	RBF 0313/3 MICRO
6	13	3	43	1.5	MICRO	1	21230073	RBF 0613/3 MICRO
	18	6	55	1.5	MICRO HC-FEP	1	21117377	RBF 0618/6 MICRO HC-FEP
8	20	6	60	1.2	MICRO HC-FEP	1	21117677	RBF 0820/6 MICRO HC-FEP
10	20	6	60	2.5	MICRO HC-FEP	1	21117777	RBF 1020/6 MICRO HC-FEP
12	25	6	65	2.5	MICRO HC-FEP	1	21117875	RBF 1225/6 MICRO HC-FEP
6	18	6	55	1.5	MICRO	1	21157205	RBF 0618/6 MICRO
8	20	6	60	1.2	MICRO	1	21157208	RBF 0820/6 MICRO
10	20	6	60	2.5	MICRO	1	21157210	RBF 1020/6 MICRO
12	25	6	65	2.5	MICRO	1	21117876	RBF 1225/6 MICRO

New item

Set 1502 MICRO

Set 1502 MICRO contains ten small tungsten carbide burrs for finishing work in the most common shapes and dimensions.

Contents:
The set comprises one each of the following: ZYA 0210/3 MICRO, ZYA 0313/3 MICRO, ZYA 0613/3 MICRO, WRC 0210/3 MICRO, WRC 0313/3 MICRO, WRC 0613/3 MICRO, KUD 0302/3 MICRO, KUD 0605/3 MICRO, RBF 0307/3 MICRO and RBF 0613/3 MICRO with a shank diameter of 3 mm, cut MICRO.

Special features:
- The sturdy plastic box protects the tools against dirt and damage.

Cut		Item no.	Designation
MICRO	1	21901502	SET 1502 MICRO 10TLG

Set 1303 MICRO

Set 1303 MICRO contains three small tungsten carbide burrs for finishing work in the most common shapes and dimensions.

Contents:
The set comprises one each of the following: ZYA 0313/3 MICRO, WRC 0313/3 MICRO and RBF 0313/3 MICRO with a shank diameter of 3 mm, cut MICRO.

Special features:
- The sturdy plastic box protects the tools against dirt and damage.

Cut		Item no.	Designation
MICRO	1	21901303	SET 1303 MICRO 3TLG

Set 1306 MICRO

Set 1306 MICRO contains three tungsten carbide burrs for finishing work in the most common shapes and dimensions.

Contents:
The set comprises one each of the following: ZYAS 0616/6 MICRO, WRC 0616/6 MICRO and RBF 0618/6 MICRO with a shank diameter of 6 mm, cut MICRO.

Special features:
- The sturdy plastic box protects the tools against dirt and damage.

Cut		Item no.	Designation
MICRO	1	21901306	SET 1306 MICRO 3TLG

TC burrs for high-performance applications
MICRO cut for finishing work

Set 1306 MICRO HC-FEP

The 1306 MICRO HC-FEP set contains three tungsten carbide burrs with a high-quality HICOAT coating for finishing work in the most common shapes and dimensions.

Contents:
The set comprises one each of the following: ZYAS 0616/6 MICRO HC-FEP, WRC 0616/6 MICRO HC-FEP and RBF 0618/6 MICRO HC-FEP with a shank diameter of 6 mm, cut MICRO HC-FEP.

Special features:
- The sturdy plastic box protects the tools against dirt and damage.

Cut		Item no.	Designation
MICRO HC-FEP	1	21901307	1306 MICRO 3TLG HC-FEP

Set 1312 MICRO

Set 1312 MICRO contains three tungsten carbide burrs for finishing work in the most common shapes and dimensions.

Contents:
The set comprises one each of the following: ZYAS 1225/6 MICRO, WRC 1225/6 MICRO and RBF 1225/6 MICRO with a shank diameter of 6 mm, cut MICRO.

Special features:
- The sturdy plastic box protects the tools against dirt and damage.

Cut		Item no.	Designation
MICRO	1	21901312	SET 1312 MICRO 3TLG

Set 1312 MICRO HC-FEP

The 1312 MICRO HC-FEP set contains three tungsten carbide burrs for finishing work in the most common shapes and dimensions.

Contents:
The set comprises one each of the following: ZYAS 1225/6 MICRO HC-FEP, WRC 1225/6 MICRO HC-FEP and RBF 1225/6 MICRO HC-FEP with a shank diameter of 6 mm, cut MICRO HC-FEP.

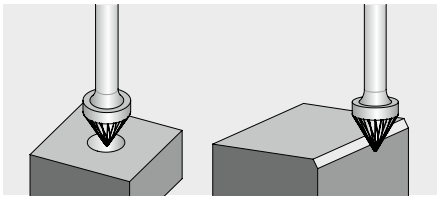
Special features:
- The sturdy plastic box protects the tools against dirt and damage.

Cut		Item no.	Designation
MICRO HC-FEP	1	21901313	1312 MICRO 3TLG HC-FEP

New item

Conical counterbore shape KSJ

Conical counterbore burr according to DIN 8032 with cut conforming to DIN 8033, with point angle (60°). Suitable for flexible counterboring and chamfering.



Special features:
- Can be guided as desired.
- Extremely flexible for use in hard-to-reach areas.

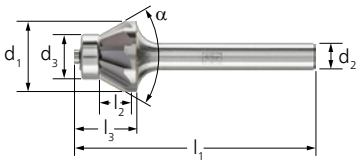
d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	α [°]	Cut		Item no.	Designation
10	8	6	53	60	3	1	21115736	KSJ 1008/6 Z3
16	13	6	56	60	3	1	21115336	KSJ 1613/6 Z3
					5	1	21115356	KSJ 1613/6 Z5

Conical counterbore shape KSJ (double-ended)

Conical counterbore burr (double-ended) according to DIN 8032 with cut conforming to DIN 8033, with point angle (60°). Suitable for flexible counterboring and chamfering.

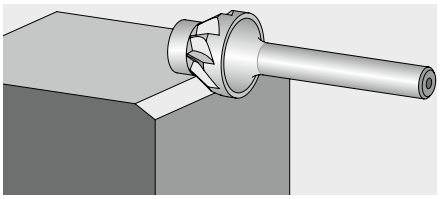
Special features:
- Can cut and be used on both sides.
- Can be guided as desired.
- Extremely flexible for use in hard-to-reach areas.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	α [°]	Cut		Item no.	Designation
6	5	6	50	60	3	1	21115536	KSJ 0605/6 Z3



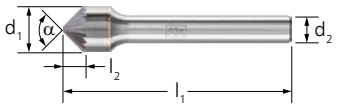
Conical counterbore shape KSJ EDGE

Conical counterbore burr for producing precisely defined 30° chamfer angles.



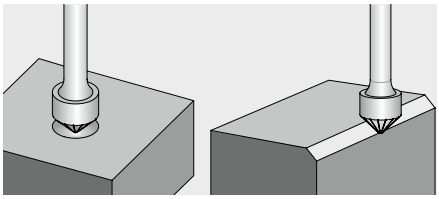
Special features:
- Special design for precise guidance, without damaging the workpiece.
- Safe and comfortable to guide thanks to design with ball bearings.
- Creates exact edge shapes in one single step.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	d_3 [mm]	l_3 [mm]	α [°]	Cut		Item no.	Designation
16	5	6	54	10	14	60	EDGE	1	21115366	KSJ 1605/6 EDGE 30°
							EDGE ALU	1	*21115367*	KSJ 1605/6 EDGE ALU 30°



Conical counterbore shape KSK

Conical counterbore burr according to DIN 8032 with cut conforming to DIN 8033, with angle (90°). Suitable for flexible counterboring and chamfering.



Special features:
- Can be guided as desired.
- Extremely flexible for use in hard-to-reach areas.

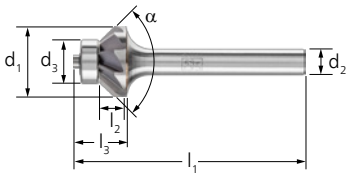
d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	α [°]	Cut		Item no.	Designation
10	5	6	50	90	3	1	21115836	KSK 1005/6 Z3
16	8	6	53	90	3	1	21115436	KSK 1608/6 Z3
					5	1	21115456	KSK 1608/6 Z5

Conical counterbore shape KSK (double-ended)

Conical counterbore burr (double-ended) according to DIN 8032 with cut conforming to DIN 8033, with angle (90°). Suitable for flexible counterboring and chamfering.

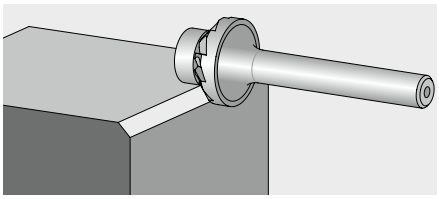
Special features:
- Can cut and be used on both sides.
- Can be guided as desired.
- Extremely flexible for use in hard-to-reach areas.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	α [°]	Cut		Item no.	Designation
6	3	6	50	90	3	1	21115636	KSK 0603/6 Z3



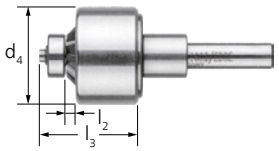
Conical counterbore shape KSK EDGE

Conical counterbore burr for producing precisely defined 45° chamfer angles.



Special features:
- Special design for precise guidance, without damaging the workpiece.
- Safe and comfortable to guide thanks to design with ball bearings.
- Creates exact edge shapes in one single step.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	d_3 [mm]	l_3 [mm]	α [°]	Cut		Item no.	Designation
16	3	6	52	10	12	90	EDGE	1	21115466	KSK 1603/6 EDGE 45°
							EDGE ALU	1	*21115469*	KSK 1603/6 EDGE ALU 45°

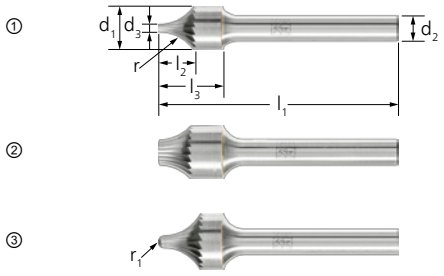


KSK EDGE Cutting System

The KSK EDGE Cutting System (ECS) allows for chamfers that are 1.2 mm wide (+/- 0.2 mm). The ECS burr can be reordered and replaced. Matching burr: KSK 1603/6 EDGE (ALU) 45°.

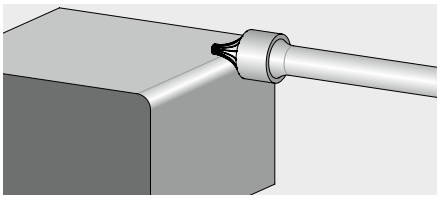
Special features:
- Special design for precise guidance, without damaging the workpiece.
- Very precise work on edges thanks to additional guide sleeve.
- Creates exact edge shapes in one single step.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	d_3 [mm]	l_3 [mm]	d_4 [mm]	α [°]	Cut		Item no.	Designation
16	1	6	52	10	24	25	90	EDGE	1	21115467	KSK 1603/6 EDGE 45° ECS



Concave radius burrs V

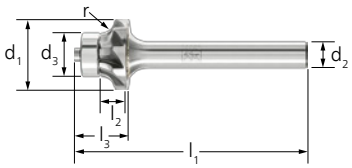
Concave radius burrs with concave end shape, cut conforming to DIN 8033. Suitable for the production and processing of outer radii and rounded edges.



Special features:
- Can be guided as desired.
- Extremely flexible for use in hard-to-reach areas.

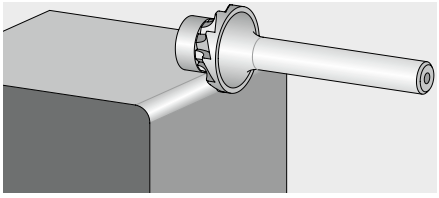
Image	d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	d_3 [mm]	l_3 [mm]	r [mm]	r_1 [mm]	Cut		Item no.	Designation
①	10	8	6	55	2	15	10	-	3	1	21152536	V 1015/6 Z3
②	12	7	6	55	6	15	10	-	3	1	21152836	V 1215/6 Z3
③	13	10	6	55	3	15	10	1.5	3	1	21152736	V 1315/6 Z3

Discontinued product



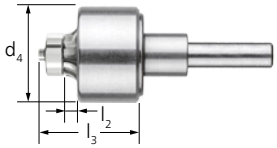
Concave radius burrs V EDGE

Concave radius burrs for the production of precise radii. Suitable for the production and processing of 3 mm outer radii.



Special features:
- Special design for precise guidance, without damaging the workpiece.
- Safe and comfortable to guide thanks to design with ball bearings.
- Creates exact edge shapes in one single step.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	d_3 [mm]	l_3 [mm]	r [mm]	Cut		Item no.	Designation
16	3	6	52	10	12	3	EDGE	1	21152936	V 1612/6 EDGE R3,0

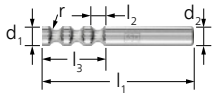


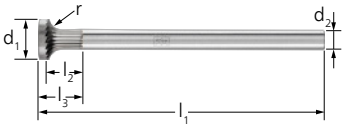
V EDGE Cutting System

The V EDGE Cutting System (ECS) enables production and processing of 3 mm outer radii. The ECS burr can be reordered and replaced. Matching burr: V 1612/6 EDGE R3.0.

Special features:
- Special design for precise guidance, without damaging the workpiece.
- Very precise work on edges thanks to additional guide sleeve.
- Creates exact edge shapes in one single step.

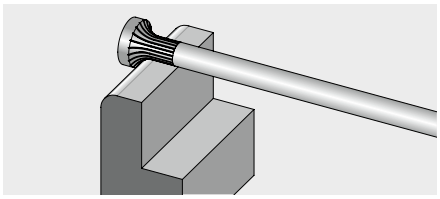
d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	d_3 [mm]	l_3 [mm]	d_4 [mm]	r [mm]	Cut		Item no.	Designation
16	3	6	52	10	24	25	3	EDGE	1	21152946	V 1612/6 EDGE R3,0 ECS

① 

② 

Radius burrs R

Radius burrs with a concave shape and special cut. Suitable for the production and processing of outer radii and rounded edges.

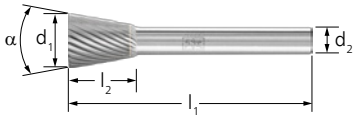


Special features:
- Can be guided as desired.
- Extremely flexible for use in hard-to-reach areas.

Image	d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	l_3 [mm]	r [mm]	Cut		Item no.	Designation
①	6	5	6	65	25	3	Special cut (SP)	1	21143086	R 0625/6 SP
	8	5	8	65	27	3	Special cut (SP)	1	21143288	R 0830/8 SP
②	16	12	8	118	18	6	Special cut (SP)	1	21143588	R 1618/8 SP

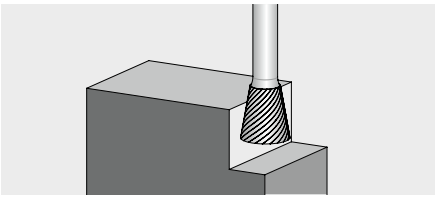
TC burrs for high-performance applications

TC burrs for flexible and defined work on edges



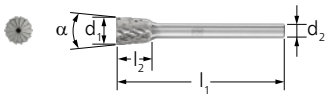
Inverted cones WKN without end cut

Inverted cone-shaped rotary cutter, tapered towards the shank according to DIN 8032 with cut conforming to DIN 8033. Suitable for work on hard-to-reach, reverse-side edges.



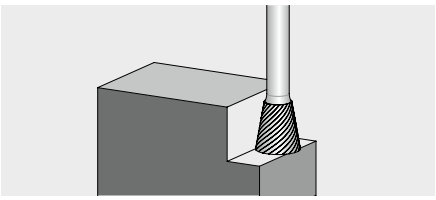
Special features:
- Can be guided as desired.
- Extremely flexible for use in hard-to-reach areas.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	α [°]	Cut		Item no.	Designation
3	7	3	37	8	3 PLUS	1	21208583	WKN 0307/3 Z3 PLUS
					5	1	21208553	WKN 0307/3 Z5
6	7	3	37	10	3 PLUS	1	21208683	WKN 0607/3 Z3 PLUS
					5	1	21208653	WKN 0607/3 Z5
10	13	6	53	10	3	1	21155036	WKN 1013/6 Z3
12	13	6	53	20	3	1	21155136	WKN 1213/6 Z3
16	13	6	53	20	3	1	21155236	WKN 1613/6 Z3



Inverted cones WKNS with end cut

Inverted cone-shaped rotary cutter, tapered towards the shank according to DIN 8032 with cut conforming to DIN 8033. Shape WKNS with end cut. Suitable for work on hard-to-reach, reverse-side edges.



Special features:
- Can be guided as desired.
- Extremely flexible for use in hard-to-reach areas.

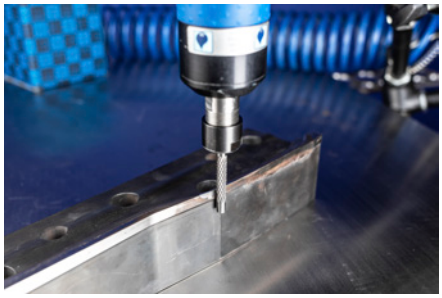
d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	α [°]	Cut		Item no.	Designation
3	7	3	37	8	3 PLUS	1	21207583	WKNS 0307/3 Z3 PLUS
					5	1	21207553	WKNS 0307/3 Z5
6	7	3	37	10	3 PLUS	1	21207683	WKNS 0607/3 Z3 PLUS
					5	1	21207653	WKNS 0607/3 Z5

TC copy milling burrs
General information

Recommended rotational speed range [RPM]

To determine the recommended cutting speed range [m/min], please proceed as follows:
① Select the material group to be machined.
② Determine the type of application.
③ Select the cut.
④ Establish the cutting speed range.

To determine the recommended rotational speed range [RPM], please proceed as follows:
⑤ Select the required burr diameter.
⑥ The cutting speed range and the burr diameter determine the recommended rotational speed range.



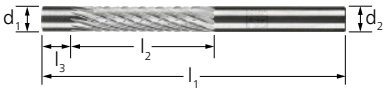
Cutting speeds – TC copy milling burrs

① Material group			② Used for	③ Cut	④ Cutting speed
Steel, cast steel	Steels up to 1,200 N/mm² (< 38 HRC)	Construction steels, carbon steels, tool steels, non-alloyed steels, case-hardened steels, cast steel, tempering steels	Coarse stock removal	4	450–600 m/min
			Fine stock removal	MICRO	600–750 m/min
	Hardened, heat-treated steels over 1,200 N/mm² (> 38 HRC)	Tool steels, tempering steels, alloyed steels, cast steel	Coarse stock removal	4	250–350 m/min
			Fine stock removal	MICRO	450–600 m/min

Example:
TC copy milling burr,
MICRO cut,
burr dia. 8 mm.
Fine stock removal on steels up to 1,200 N/mm².
Cutting speed: 600–750 m/min
Rotational speed range: 24,000–30,000 RPM

⑤ Burr dia. [mm]	⑥ Cutting speeds [m/min]				
	250	350	450	600	750
	Rotational speeds [RPM]				
3	27,000	37,000	48,000	64,000	80,000
6	13,000	19,000	24,000	32,000	40,000
8	10,000	14,000	18,000	24,000	30,000

Universal cut KFS 4

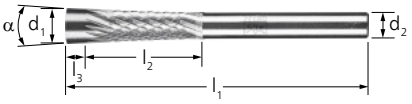


Cylindrical shape ZYA without end cut

Cylindrical burr for levelling elevations such as weld seams and for repairing cutting and punching blades in tool and mould-making. The uncut area provides optimum contour guidance and protects the workpiece against damage.

Special features:
- Cut 4 for coarse stock removal on steel and cast steel, tool steels as well as hardened and heat-treated steels over 1,200 N/mm².
- Long tool life and high surface quality.
- Reduced machining time.

d_1 [mm]	l_2 [mm]	l_3 [mm]	d_2 [mm]	l_1 [mm]	Cut		Item no.	Designation
3	25	7	3	65	4	1	21201289	ZYA 0325/3 Z4 7MM KFS
6	30	7	6	70	4	1	21101699	ZYA 0630/6 Z4 7MM KFS
8	30	7	6	77	4	1	21101789	ZYA 0830/6 Z4 7MM KFS



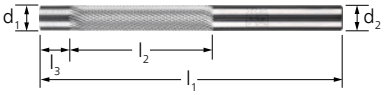
Inverted cones WKN without end cut

Inverted cone-shaped burr, tapered towards the shank for work on punching tools. The uncut area provides optimum contour guidance and protects the workpiece against damage.

Special features:
- Cut 4 for coarse stock removal on steel and cast steel, tool steels as well as hardened and heat-treated steels over 1,200 N/mm².
- Long tool life and high surface quality.
- Reduced machining time.

d_1 [mm]	l_2 [mm]	l_3 [mm]	d_2 [mm]	l_1 [mm]	α [°]	Cut		Item no.	Designation
8	26	7	6	73	4	4	1	21155009	WKN 0826/6 Z4 7MM KFS

MICRO cut for finishing work

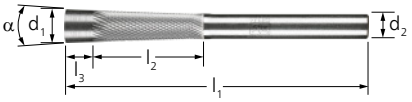


Cylindrical shape ZYA without end cut

Cylindrical burr for levelling elevations such as weld seams and for repairing cutting and punching blades in tool and mould-making. The uncut area provides optimum contour guidance and protects the workpiece against damage.

Special features:
- MICRO cut for fine stock removal on almost all materials up to a hardness of 68 HRC.
- Long tool life and high surface quality.
- Reduced machining time.

d_1 [mm]	l_2 [mm]	l_3 [mm]	d_2 [mm]	l_1 [mm]	Cut		Item no.	Designation
3	25	7	3	65	MICRO	1	21201288	ZYA 0325/3 MICRO 7 mm KFS
6	30	7	6	70	MICRO	1	21101698	ZYA 0630/6 MICRO 7MM KFS
8	30	7	6	77	MICRO	1	21101788	ZYA 0830/6 MICRO 7 mm KFS



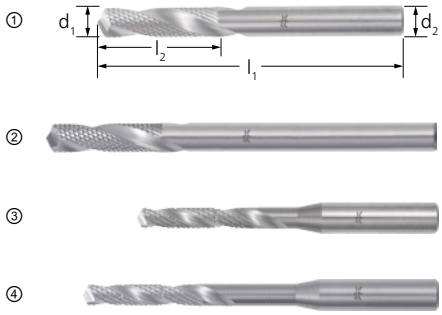
Inverted cones WKN without end cut

Inverted cone-shaped burr, tapered towards the shank for work on punching tools. The uncut area provides optimum contour guidance and protects the workpiece against damage.

Special features:
- MICRO cut for fine stock removal on almost all materials up to a hardness of 68 HRC.
- Long tool life and high surface quality.
- Reduced machining time.

d_1 [mm]	l_2 [mm]	l_3 [mm]	d_2 [mm]	l_1 [mm]	α [°]	Cut		Item no.	Designation
8	26	7	6	73	4	MICRO	1	21155008	WKN 0826/6 MICRO 7mm KFS

TC profile cylinder burrs
Cylindrical shape

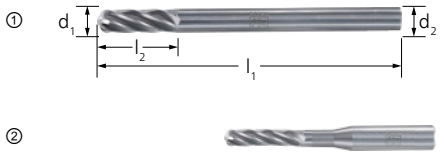


COARSE version

Burr with drill tip and cut cutting surfaces. The COARSE version, due to its open cut, is not prone to clogging when milling profile cylinders made from soft materials. The integrated drill tip enables accurate centring for drilling with pinpoint precision.

Special features:
- Enormous time savings thanks to very high stock removal rate.
- Less susceptible to breakage, as tool jamming is minimized.
- Good tool life, optimum chip removal and easy to use.

Image	d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	Cut		Item no.	Designation
③	4	22	6	60	PZF COARSE	1	26007864	PZF 0422/6-60 COARSE
④	4	22	6	70	PZF COARSE	1	26007865	PZF 0422/6-70 COARSE
①	6	22	6	60	PZF COARSE	1	26007866	PZF 0622/6-60 COARSE
②	6	22	6	80	PZF COARSE	1	26007867	PZF 0622/6-80 COARSE

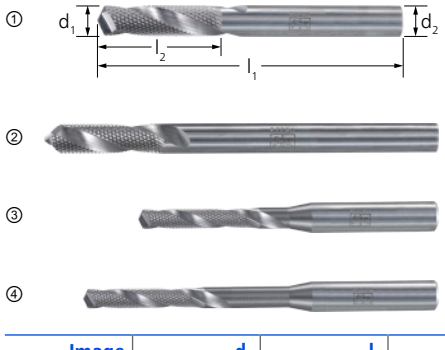


ALU version

Burr for milling profile cylinders and strike plates (e.g. facings or security covers) made from soft materials (e.g. aluminium).

Special features:
- Wear resistance due to reduced material adhesion.
- Specially developed burr geometry prevents built-up edges and tool clogging when working on particularly soft materials.

Image	d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	Cut		Item no.	Designation
②	4	24	6	60	PZF ALU	1	26007936	PZF 0424/6-60 ALU
①	6	20	6	80	PZF ALU	1	26007714	PZF 0620/6-80 ALU



MICRO version

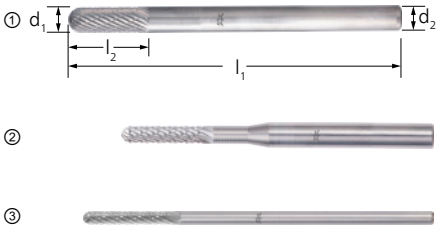
Burr with drill tip and cut cutting surfaces. The MICRO version is particularly well suited to milling out high-quality cylinder locks with hardened components up to 68 HRC. The integrated drill tip enables accurate centring for drilling with pinpoint precision.

Special features:
- Enormous time savings thanks to very high stock removal rate.
- Less susceptible to breakage, as tool jamming is minimized.
- Good tool life, optimum chip removal and easy to use.

Image	d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	Cut		Item no.	Designation
Shank diameter 6 mm								
③	4	22	6	60	PZF MICRO	1	26007712	PZF 0422/6-60
④	4	22	6	70	PZF MICRO	1	26007713	PZF 0422/6-70
①	6	22	6	60	PZF MICRO	1	26007674	PZF 0622/6-60
②	6	22	6	80	PZF MICRO	1	26007711	PZF 0622/6-80

New item

TC profile cylinder burrs
Cylindrical shape with radius end



WRC PZF version

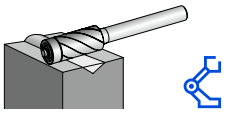
Cylindrical burr with radius end for professional opening of conventional profile cylinders. The special tooth geometry of the WRC shape enables safe milling of the profile cylinder.

Special features:
- Easy to use.
- Good tool life.
- Suitable for use on steel and stainless steel (INOX).

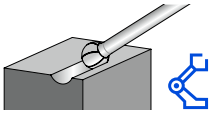
Image	d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	Cut		Item no.	Designation
③	3	20	3	65	PZF	1	26007746	WRC 0320/3 PZF GL65
				80	PZF	1	26007731	WRC 0320/3 PZF GL80
②	4	20	6	60	PZF	1	26007723	WRC 0420/6 PZF GL60
		28	6	70	PZF	1	26007724	WRC 0428/6 PZF GL70
①	6	18	6	60	PZF	1	26007730	WRC 0618/6 PZF GL60
				80	PZF	1	26007729	WRC 0618/6 PZF GL80

New item

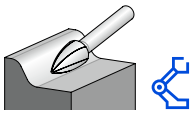
Milling tools for robot applications
Burr shapes



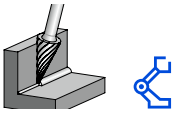
ZYA KGL
Cylindrical shape with ball bearing



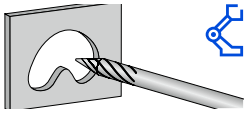
KUD
Ball shape



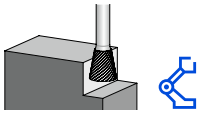
SPG
Pointed tree shape



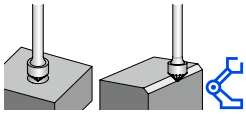
SKM
Conical pointed shape



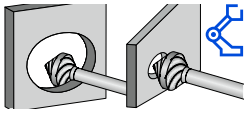
SKM-ZYA
Special shape / combination of conical pointed shape and cylindrical shape



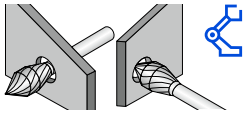
WKN
Inverted cone



KSK
Conical counterbore shape



KSK-WKN
Special shape / combination of conical counterbore shape and inverted cone



KZW
Special shape / combination of conical counterbore shape, cylindrical shape and tapered shape

PFERD TOOLS cuts

PFERD TOOLS cuts for universal applications

Cut 3 HC-FEP

- Optimized for robot applications.
- Machining of steel, cast iron, stainless steel (INOX), nickel-based alloys and titanium alloys.
- High stock removal and good surfaces.
- High-quality HICOAT coating HC-FEP for high hardness and wear resistance.

Cut 4 HC-FEP

- Optimized for robot applications.
- Machining of stainless steel (INOX), steel and high-temperature-resistant materials such as nickel-based and cobalt-based alloys.
- High stock removal with short chips and good surfaces.
- High-quality HICOAT coating HC-FEP for high hardness and wear resistance.

Cut 5 HC-FEP

- Optimized for robot applications.
- Fine machining of steel, cast iron, stainless steel (INOX) and high-temperature-resistant materials such as nickel-based and cobalt-based alloys.
- Good surface.
- High-quality HICOAT coating HC-FEP for high hardness and wear resistance.

PFERD TOOLS cuts for high-performance applications

ALU HC-NFE cut

- Optimized for robot applications.
- High stock removal rate on aluminium and aluminium alloys, non-ferrous metals and plastics.
- High-quality HICOAT coating HC-NFE for long-chipping and smearing aluminium alloys and non-ferrous metals.

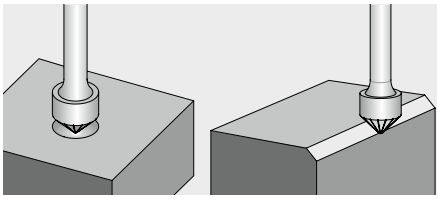
Cut MICRO HC-FEP

- Optimized for robot applications.
- Good stock removal on almost all materials < 68 HRC.
- High surface quality.
- High-quality HICOAT coating HC-FEP for high hardness and wear resistance.

Milling tools for deburring and chamfering

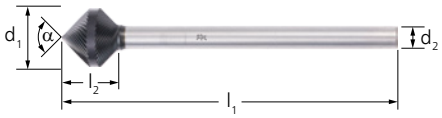
Conical counterbore shape KSK

Conical counterbore burr for deburring and chamfering in robot applications.



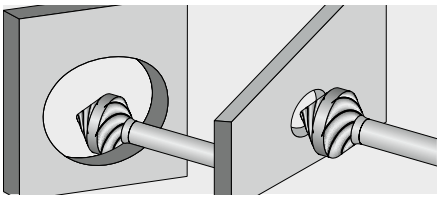
Special features:
- High-quality HICOAT coating for high hardness and wear resistance.
- Good surface.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	α [°]	Cut		Item no.	Designation
10	5	6	50	90	3 HC-FEP	1	21460013	KSK 1005/6 Z3 HC RS
					5 HC-FEP	1	21460012	KSK 1005/6 Z5 HC RS
16	8	6	53	90	3 HC-FEP	1	21460015	KSK 1608/6 Z3 HC RS
					5 HC-FEP	1	21460014	KSK 1608/6 Z5 HC RS



Special shape KSK-WKN

Special burr shape for robot applications. The combination of conical counterbore shape and tapered shape enables hard-to-reach components to be optimally deburred and chamfered in just one operation.



Special features:
- High-quality HICOAT coating for high hardness and wear resistance.
- Good surface.

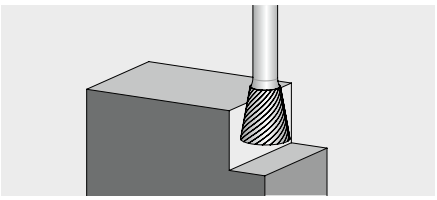
d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	α [°]	Cut		Item no.	Designation
10	11	6	86	90	3 HC-FEP	1	21460008	KSK-WKN 1011/6 Z3 90°HC RS SL75
					5 HC-FEP	1	21460009	KSK-WKN 1011/6 Z5 90°HC RS SL75
16	15	6	90	90	3 HC-FEP	1	21460010	KSK-WKN 1615/6 Z3 90°HC RS SL75
					5 HC-FEP	1	21460011	KSK-WKN 1615/6 Z5 90°HC RS SL75

New item

Milling tools for robot applications
Milling tools for deburring and chamfering

Inverted cone WKN

Inverted cone-shaped burr, tapered towards the shank for deburring and chamfering in robot applications.

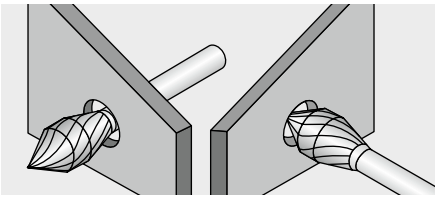


Special features:
- High-quality HICOAT coating for high hardness and wear resistance.
- Good surface.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	Cut		Item no.	Designation
10	3	6	79.5	3 HC-FEP	1	21460004	WKN 1003/6 Z3 90° HC RS SL75
				5 HC-FEP	1	21460005	WKN 1003/6 Z5 90° HC RS SL75
16	6	6	81	3 HC-FEP	1	21460006	WKN 1606/6 Z3 90° HC RS SL75
				5 HC-FEP	1	21460007	WKN 1606/6 Z5 90° HC RS SL75

Special shape KZW

Special burr shape for robot applications. The combination of three different burr shapes enables hard-to-reach components to be optimally deburred and chamfered in just one operation.



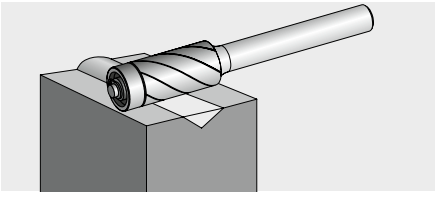
Special features:
- Less programming needed due to fewer tool changes.
- High-quality HICOAT coating for high hardness and wear resistance.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	α [°]	Cut		Item no.	Designation
6	13	3	43	60	3	1	21460002	KZW 0613/3 Z3 HC RS
					MICRO	1	21460003	KZW 0613/3 MICRO HC RS
12	25	6	65	60	3	1	21460000	KZW 1225/6 Z3 HC RS
					MICRO	1	21460001	KZW 1225/6 MICRO HC RS

Milling tools with ball bearing for deburring and cleaning

Cylindrical shape ZYA with ball bearing

Cylindrical burr with ball bearing for deburring and cleaning in robot applications.



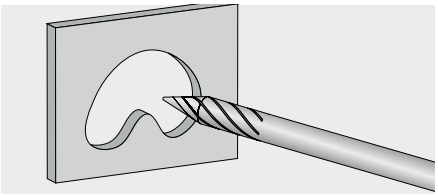
Special features:
- The ball bearing provides optimum contour guidance and protects the workpiece against damage during milling.
- High-quality HICOAT coating for high hardness and wear resistance.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	Cut		Item no.	Designation
10	19	6	65	ALU HC-NFE	1	21460018	ZYA 1019/6 ALU HC RS KGL
				MICRO HC-FEP	1	21460017	ZYA 1019/6 MICRO HC RS KGL
				4 HC-FEP	1	21460016	ZYA 1019/6 C4 HC RS KGL

New item

Special shape SKM-ZYA

Special burr shape for robot-guided aluminium processing. The combination of conical pointed shape and cylindrical shape enables optimum deburring and chamfering results in just one operation.



Special features:

- Less programming needed due to fewer tool changes.
- Extremely high stock removal rate on aluminium alloys and non-ferrous metals.
- HC-NFE coating prevents material adhesion when working on long-chipping and lubricating non-ferrous metals.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	α [°]	Cut		Item no.	Designation
6	25	6	120	31	ALU HC-NFE	1	21460019	SKM-ZYA 0625/6 ALU GL120 HC RS

New item

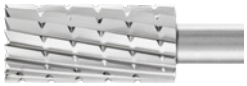
HSS rotary cutters
General information

PFERD TOOLS

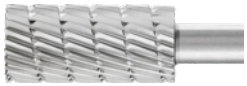
Overview of cuts

ALU cut
- Machining of soft non-ferrous metals, brass, copper, aluminium alloys, plastics, fibre-reinforced plastics and rubber.
- Rotational speed range of 4,000 to 6,000 RPM depending on the burr diameter.

Cut 1
- Machining of stainless steel (INOX), soft non-ferrous metals and plastics.
- Rotational speed range of 1,200 to 23,900 RPM depending on the burr diameter.



Cut 2 with chip divider
- Machining of steel, cast steel and cast iron, stainless steel (INOX), non-ferrous metals and plastics.
- Rotational speed range of 1,200 to 13,200 RPM depending on the burr diameter.



Cut 3 with chip divider
- Machining of steel, cast steel and cast iron.
- Rotational speed range of 1,200 to 7,900 RPM depending on the burr diameter.

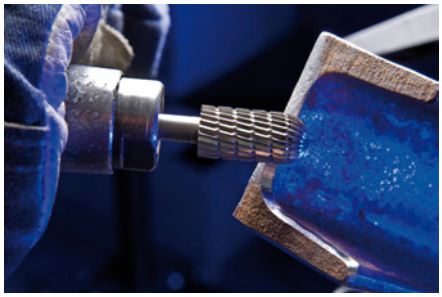
Explanation of the code system

d_1 = Burr dia.
l_2 = Cut length
d_2 = Shank dia.
l_1 = Total length
α = Angle

Recommended rotational speed range [RPM]

To determine the recommended cutting speed range [m/min], please proceed as follows:
① Select the material group to be machined.
② Determine the type of application.
③ Select the cut.
④ Establish the cutting speed range.

To determine the recommended rotational speed range [RPM], please proceed as follows:
⑤ Select the required burr diameter.
⑥ The cutting speed range and the burr diameter determine the recommended rotational speed range.



Cutting speeds – HSS rotary cutters

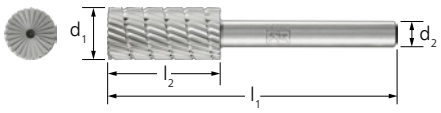
① Material group			② Used for	③ Cut	④ Cutting speed
Steel, cast steel	Steels up to 1,200 N/mm² (< 38 HRC)	Construction steels, carbon steels, tool steels, non-alloyed steels, case-hardened steels, cast steel, tempering steels	Coarse stock removal	2	60–80 m/min
				3	
				SP	
			Fine stock removal	3	80–100 m/min
				SP	
Stainless steel (INOX)	Rust and acid-resistant steels	Austenitic and ferritic stainless steels	Coarse stock removal	1	60–80 m/min
			Fine stock removal	1	80–100 m/min
				2	60–80 m/min
Non-ferrous metals	Soft non-ferrous metals	Aluminium alloys, brass, copper, zinc	Coarse stock removal	ALU	200–300 m/min
				1	
			Fine stock removal	2	200–250 m/min
Cast iron	Grey cast iron, white cast iron	Cast iron with flake graphite EN-GJL (GG), with nodular graphite/nodular cast iron EN-GJS (GGG), white annealed cast iron EN-GJMW (GTW), black annealed cast iron EN-GJMB (GTS)	Coarse stock removal	2	60–80 m/min
				3	
				SP	
			Fine stock removal	3	80–100 m/min
				SP	
Plastics, other materials	Fibre-reinforced thermoplastics and duroplastics, hard rubber, wood		Coarse stock removal	ALU	200–300 m/min
				1	
			Fine stock removal	1	250–300 m/min
				2	200–250 m/min

HSS rotary cutters
General information

Example:
HSS rotary cutter,
Cut 2,
Burr dia. 12 mm.
Coarse stock removal on steels up to 1,200 N/mm².
Cutting speed: 60–80 m/min
Rotational speed range: 1.600–2.200 RPM

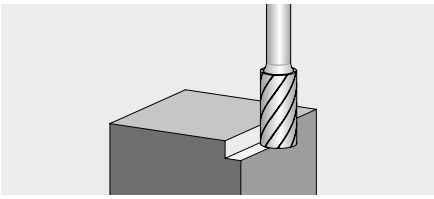
⑤ Burr dia. [mm]	⑥ Cutting speeds [m/min]					
	60	80	100	200	250	300
	Rotational speeds [RPM]					
1.6	12,000	16,000	19,900	39,800	49,800	59,700
2.3	8,400	11,100	13,900	27,700	34,600	41,600
3.0	6,000	8,000	10,000	19,900	24,900	29,900
3.2	6,000	8,000	10,000	19,900	24,900	29,900
4.0	4,800	6,400	8,000	16,000	19,900	23,900
4.2	4,800	6,400	8,000	16,000	19,900	23,900
5.0	3,900	5,100	6,400	12,800	16,000	19,100
5.2	3,900	5,100	6,400	12,800	16,000	19,100
6.0	3,200	4,300	5,400	10,700	13,300	16,000
6.2	3,200	4,300	5,400	10,700	13,300	16,000
7.0	2,800	3,700	4,600	9,100	11,400	13,700
8.0	2,400	3,200	4,000	8,000	10,000	12,000
8.2	2,400	3,200	4,000	8,000	10,000	12,000
10.0	2,000	2,600	3,200	6,400	8,000	9,600
12.0	1,600	2,200	2,700	5,400	6,700	8,000
14.0	1,400	1,900	2,300	4,600	5,700	6,900
16.0	1,200	1,600	2,000	4,000	5,000	6,000
20.0	900	1,300	1,600	3,200	4,000	4,800

For fine and coarse stock removal



Cylindrical shape with end cut A-ST

The cylindrical HSS rotary cutters with end cut and special tooth geometry, manufactured to a high quality. The burrs can also be used cost-effectively with low-power tool drives at low rotational speeds.



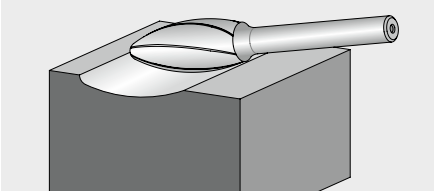
Special features:
- Suitable for use on steel, cast steel, stainless steel (INOX), non-ferrous metals, cast iron and plastics.
- Highly aggressive.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	Cut		Item no.	Designation
4	13	6	60	3	1	22404336	HSS A 0413ST/6 Z3
6	16	6	60	1	1	*22404716*	HSS A 0616ST/6 Z1
				2	1	22404726	HSS A 0616ST/6 Z2
				3	1	22404736	HSS A 0616ST/6 Z3
8	20	6	60	3	1	22405036	HSS A 0820ST/6 Z3
10	13	6	53	1	1	*22405316*	HSS A 1013ST/6 Z1
				2	1	*22405326*	HSS A 1013ST/6 Z2
				3	1	22405336	HSS A 1013ST/6 Z3
	20	6	60	3	1	22405436	HSS A 1020ST/6 Z3
12	25	6	65	1	1	22405516	HSS A 1225ST/6 Z1
				2	1	22405526	HSS A 1225ST/6 Z2
				3	1	22405536	HSS A 1225ST/6 Z3
16	25	6	65	ALU	1	22405916	HSS A 1625ST/6 ALU
				2	1	22405826	HSS A 1625ST/6 Z2
				3	1	22405836	HSS A 1625ST/6 Z3

Discontinued product

Flame-shaped B

The flame-shaped HSS rotary cutters with special tooth geometry, manufactured to a high quality. The burrs can also be used cost-effectively with low-power tool drives at low rotational speeds.

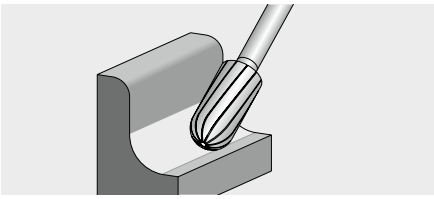


Special features:
- Suitable for use on steel, cast steel and cast iron.
- Highly aggressive.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	r [mm]	Cut		Item no.	Designation
8	20	6	60	1.5	3	1	22407136	HSS B 0820/6 Z3
12	30	6	70	2	3	1	22407436	HSS B 1230/6 Z3
16	35	6	75	2.6	3	1	22407836	HSS B 1635/6 Z3

Cylindrical shape with radius end C

Cylindrical HSS rotary cutter with radius end, end cut and special tooth geometry, manufactured to a high quality. The burrs can also be used cost-effectively with low-power tool drives at low rotational speeds.



Special features:
- Suitable for use on steel, cast steel, stainless steel (INOX), non-ferrous metals, cast iron and plastics.
- Highly aggressive.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

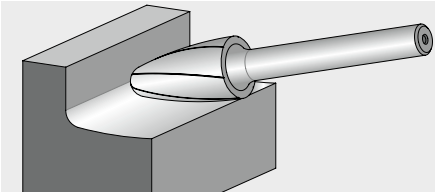
d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	Cut		Item no.	Designation
6	16	6	60	1	1	22410716	HSS C 0616/6 Z1
				2	1	*22410726*	HSS C 0616/6 Z2
				3	1	22410736	HSS C 0616/6 Z3
8	20	6	60	3	1	22411036	HSS C 0820/6 Z3
10	20	6	60	3	1	22411336	HSS C 1020/6 Z3
12	25	6	65	1	1	22411516	HSS C 1225/6 Z1
				2	1	22411526	HSS C 1225/6 Z2
				3	1	22411536	HSS C 1225/6 Z3
16	25	6	65	ALU	1	22411816	HSS C 1625/6 ALU
				3	1	22411836	HSS C 1625/6 Z3

Discontinued product

HSS rotary cutters
For fine and coarse stock removal

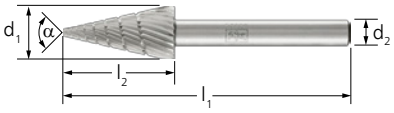
Tree shape with radius end H

Tree-shaped HSS rotary cutter with radius end, end cut and special tooth geometry, manufactured to a high quality. The burrs can also be used cost-effectively with low-power tool drives at low rotational speeds.



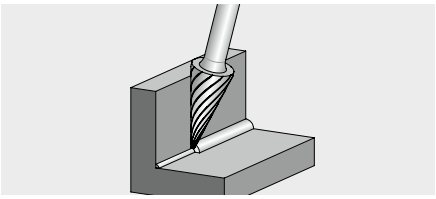
Special features:
- Suitable for use on steel, cast steel and cast iron.
- Highly aggressive.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	r [mm]	Cut		Item no.	Designation
8	20	6	60	1.2	3	1	22431836	HSS H 0820/6 Z3
10	20	6	60	2.5	3	1	22432436	HSS H 1020/6 Z3
12	25	6	65	2.5	3	1	22433036	HSS H 1225/6 Z3
16	30	6	70	3.6	3	1	22434536	HSS H 1630/6 Z3



Conical pointed shape G

Conical pointed burr with flattened tip and special tooth geometry, manufactured to a high quality. The burrs can also be used cost-effectively with low-power tool drives at low rotational speeds.



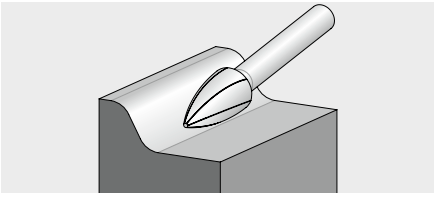
Special features:
- Suitable for use on steel, cast steel, stainless steel (INOX), cast iron, non-ferrous metals and plastics.
- Highly aggressive.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	α [°]	Cut		Item no.	Designation
6	18	6	60	14	3	1	22422736	HSS G 0618/6 Z3
10	20	6	60	28	1	1	22423316	HSS G 1020/6 Z1
					2	1	22423326	HSS G 1020/6 Z2
					3	1	22423336	HSS G 1020/6 Z3
12	25	6	65	27	1	1	22423516	HSS G 1225/6 Z1
					2	1	22423526	HSS G 1225/6 Z2
					3	1	22423536	HSS G 1225/6 Z3

HSS rotary cutters
For fine and coarse stock removal

Pointed tree shape K

Pointed tree-shaped burr with flattened tip and special tooth geometry, manufactured to a high quality. The burrs can also be used cost-effectively with low-power tool drives at low rotational speeds.

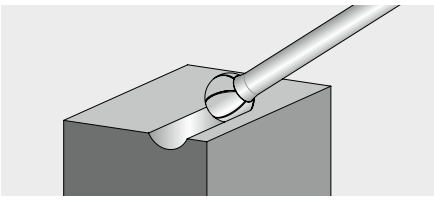


Special features:
- Suitable for use on steel, cast steel, stainless steel (INOX), cast iron, non-ferrous metals and plastics.
- Highly aggressive.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	Cut		Item no.	Designation
6	18	6	60	2	1	*22440726*	HSS K 0618/6 Z2
				3	1	22440736	HSS K 0618/6 Z3
10	20	6	60	3	1	22441336	HSS K 1020/6 Z3
12	25	6	65	1	1	22441516	HSS K 1225/6 Z1
				3	1	22441536	HSS K 1225/6 Z3
	30	6	70	1	1	*22441616*	HSS K 1230/6 Z1
				2	1	22441626	HSS K 1230/6 Z2
				3	1	22441636	HSS K 1230/6 Z3
16	30	6	70	ALU	1	22441816	HSS K 1630/6 ALU
				2	1	22441826	HSS K 1630/6 Z2
				3	1	22441836	HSS K 1630/6 Z3

Ball shape F

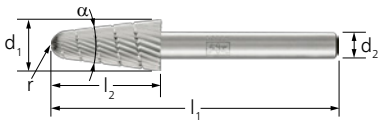
Ball-shaped burr with special tooth geometry, manufactured to a high quality. The burrs can also be used cost-effectively with low-power tool drives at low rotational speeds.



Special features:
- Suitable for use on steel, cast steel, stainless steel (INOX), cast iron, non-ferrous metals and plastics.
- Highly aggressive.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

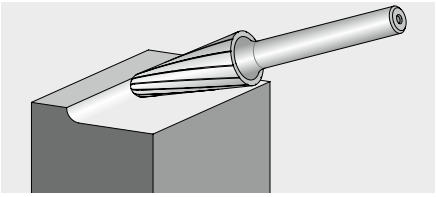
d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	Cut		Item no.	Designation
4	3	6	55	3	1	22418836	HSS F 0403/6 Z3
6	5	6	55	3	1	22419736	HSS F 0605/6 Z3
8	7	6	55	1	1	22420016	HSS F 0807/6 Z1
				3	1	22420036	HSS F 0807/6 Z3
10	9	6	49	3	1	22420336	HSS F 1009/6 Z3
12	10	6	51	1	1	*22420516*	HSS F 1210/6 Z1
				3	1	22420536	HSS F 1210/6 Z3
16	14	6	54	1	1	22420816	HSS F 1614/6 Z1
				3	1	22420836	HSS F 1614/6 Z3

Discontinued product



Conical shape with radius end L

Conical burr with radius end and special tooth geometry, manufactured to a high quality. The burrs can also be used cost-effectively with low-power tool drives at low rotational speeds.

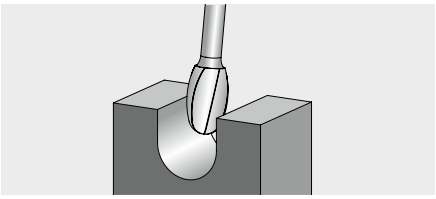


Special features:
- Suitable for use on steel, cast steel, cast iron, non-ferrous metals and plastics.
- Highly aggressive.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	α [°]	r [mm]	Cut		Item no.	Designation
10	20	6	60	14	2.9	3	1	22450136	HSS L 1020/6 Z3
12	25	6	65	14	3.3	3	1	22450736	HSS L 1225/6 Z3
	30	6	70	14	2.6	3	1	22451236	HSS L 1230/6 Z3
16	30	6	70	14	4.8	ALU	1	22451816	HSS L 1630/6 ALU
						3	1	22451836	HSS L 1630/6 Z3

Oval shape O

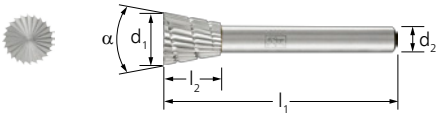
Oval burr with special tooth geometry, manufactured to a high quality. The burrs can also be used cost-effectively with low-power tool drives at low rotational speeds.



Special features:
- Suitable for use on steel, cast steel, stainless steel (INOX), cast iron, non-ferrous metals and plastics.
- Highly aggressive.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

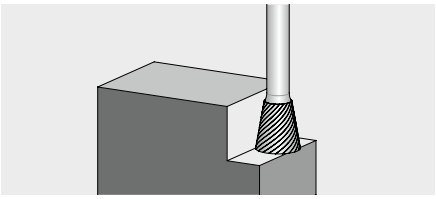
d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	r [mm]	Cut		Item no.	Designation
6	10	6	55	2.8	3	1	22460136	HSS O 0610/6 Z3
10	16	6	56	4	3	1	*22460836*	HSS O 1016/6 Z3
12	20	6	60	5	3	1	22461436	HSS O 1220/6 Z3
16	25	6	65	6.5	ALU	1	22461816	HSS O 1625/6 ALU
					3	1	22461836	HSS O 1625/6 Z3

Discontinued product



Inverted cone with end cut W-ST

Inverted cone-shaped burr, tapered towards the shank, with end cut and special tooth geometry, manufactured to a high quality. The burrs can also be used cost-effectively with low-power tool drives at low rotational speeds.



Special features:
- Suitable for use on steel, cast steel and cast iron.
- Highly aggressive.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	α [°]	Cut		Item no.	Designation
12	13	6	53	20	3	1	22471236	HSS W 1213ST/6 Z3

Set 81 HSS

Set 81 HSS contains 10 HSS rotary cutters in the most common shapes and dimensions.

Contents:
The set comprises one each of the following: HSS A 0616ST/6 Z3, HSS A 1013ST/6 Z3, HSS A 1225ST/6 Z3, HSS C 0616/6 Z3, HSS C 1225/6 Z3, HSS K 0618/6 Z3, HSS K 1230/6 Z3, HSS K 1630/6 Z3, HSS F 1210/6 Z3 and HSS L 1630/6 Z3 with a shank diameter of 6 mm, cut 3.

Special features:
- The burrs are secured at the shanks, facilitating the selection and withdrawal of the tools.
- The sturdy plastic box protects the tools against dirt and damage.

Cut		Item no.	Designation
3	1	22900813	SET 81 Z3 10TLG

Set 82 HSS

Set 82 HSS contains 10 HSS rotary cutters in the most common shapes and dimensions.

Contents:
The set comprises one each of the following: HSS A 1013ST/6 Z3, HSS A 1625ST/6 Z3, HSS K 1630/6 Z3, HSS F 1614/6 Z3, HSS G 1020/6 Z3, HSS L 1020/6 Z3, HSS L 1630/6 Z3, HSS O 1625/6 Z3, HSS W 1213ST/6 Z3 and HSS 45/6 Z3 with a shank diameter of 6 mm, cut 3.

Special features:
- The burrs are secured at the shanks, facilitating the selection and withdrawal of the tools.
- The sturdy plastic box protects the tools against dirt and damage.

Cut		Item no.	Designation
3	1	22900823	SET 82 Z3 10TLG

Set 83 HSS

Set 83 HSS contains 18 HSS rotary cutters in the most common shapes and dimensions.

Contents:
The set comprises one each of the following: HSS A 0616ST/6 Z3, HSS A 1225ST/6 Z3, HSS C 0616/6 Z3, HSS C 1225/6 Z3, HSS K 0618/6 Z3, HSS K 1225/6 Z3, HSS K 1230/6 Z3, HSS F 0403/6 Z3, HSS F 0807/6 Z3, HSS F 1210/6 Z3, HSS F 1614/6 Z3, HSS G 0618/6 Z3, HSS G 1225/6 Z3, HSS O 0610/6 Z3, HSS O 1220/6 Z3, HSS 55/6 Z3, HSS 63/6 Z3 and HSS 64/6 Z3 with a shank diameter of 6 mm, cut 3.

Special features:
- The sturdy plastic box protects the tools against dirt and damage.

Cut		Item no.	Designation
3	1	22900833	SET 83 Z3 18TLG

Set 85 Z3

Set 85 Z3 contains three HSS rotary cutters for fine and coarse stock removal in the most common shapes and dimensions.

Contents:
The set comprises one each of the following:
A 0616ST/6 Z3, C 0616/6 Z3 and K 0618/6 Z3 with a shank diameter of 6 mm, cut 3.

Special features:
- The sturdy plastic box protects the tools against dirt and damage.

Cut		Item no.	Designation
3	1	22900810	SET 85 Z3 3TLG

Set 86 Z3

Set 86 Z3 contains three HSS rotary cutters for fine and coarse stock removal in the most common shapes and dimensions.

Contents:
The set comprises one each of the following:
A 1225ST/6 Z3, C 1225/6 Z3 and K 1225/6 Z3 with a shank diameter of 6 mm, cut 3.

Special features:
- The sturdy plastic box protects the tools against dirt and damage.

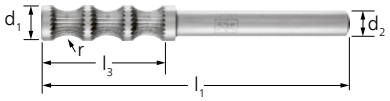
Cut		Item no.	Designation
3	1	22900811	SET 86 Z3 3TLG

Special shapes shank dia. 6 mm

Burrs in four special shapes with a shank diameter of 6 mm.

Special features:
- Suited to a range of milling work due to their different shapes.

Image	d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	α [°]	Cut		Item no.	Designation
①	12	18	6	58	-	3	1	22104536	HSS 45/6 Z3
②	6	20	6	60	-	3	1	22105536	HSS 55/6 Z3
③	12	30	6	70	7	3	1	22106336	HSS 63ST/6 Z3
④	12	30	6	70	-	3	1	22106436	HSS 64/6 Z3

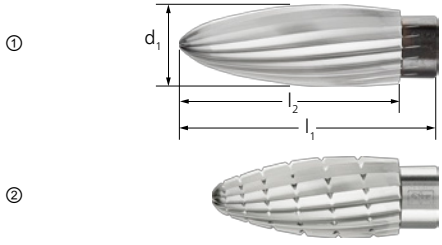


HSS edge trimming cutter

Due to their three identical cutting areas, this HSS edge trimming cutter provides three milling areas. Cylindrical burr with triple, concave contour and special cut, with a shank diameter of 6 mm. Cutting speed range of 60–80 m/min, rotational speed range of 3,100–4,200 RPM. When using the smallest burr diameter: max. 9.000 RPM.

Special features:
- Suitable for edge breaking to a defined radius.

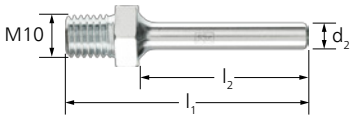
d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	r [mm]	Cut		Item no.	Designation
8	30	6	70	5	Special cut (SP)	1	22215656	HSS 156/6 SP



HSS rotary cutters for light metals with female thread

Multi-purpose HSS rotary cutters, similar to the tree shape. For work on soft non-ferrous metals: Cutting speed range of 200–300 m/min, rotational speed range of 3,100–4,700 RPM. For work on aluminium, up to max. 9.000 RPM.

Image	d_1 [mm]	l_1 [mm]	l_2 [mm]	Female thread DIN	Suitable arbors	Cut		Item no.	Designation
①	20	62	53	M10	BO 6/10, BO 8/10	Special cut (SP)	1	22211989	HSS 119 M10 SP
②	20	54	45	M10	BO 6/10, BO 8/10	Special cut (SP)	1	22212089	HSS 120 M10 SP



Arbor for tools with female thread

Suitable for tools with female thread M10.

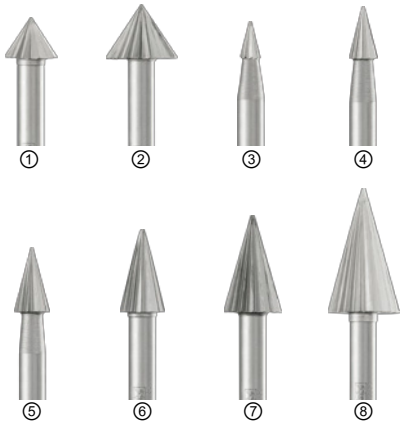
d_2 [mm]	l_2 [mm]	l_1 [mm]	Thread	Suitable for		Item no.	Designation
6	40	57	M10	HSS 119, HSS 120	1	23600610	BO 6/10 M10
8	40	57	M10	HSS 119, HSS 120	1	23600810	BO 8/10 M10

HSS engraving cutters

Suitable for fine stock removal in small and hard-to-reach places.

Image	d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	α [°]	Cut		Item no.	Designation
①	3	2.7	6	60	-	Special cut (SP)	1	*22230156*	301/6 SP
②	3	4.5	6	60	34	Special cut (SP)	1	*22230656*	306/6 SP
③	6	5.6	6	60	-	Special cut (SP)	1	22231156	311/6 SP

HSS finishing cutters



906–928

Tools designed specifically for fine stock removal.

Image	d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	α [°]	Cut		Item no.	Designation
①	6	4.2	3	34.2	71	Special cut (SP)	1	22390653	906/3 SP
②	8	5.6	3	35.6	71	Special cut (SP)	1	22390853	908/3 SP
④	3.2	5.6	3	35.6	30	Special cut (SP)	1	22392353	923/3 SP
⑤	4.2	7	3	37	32	Special cut (SP)	1	22392453	924/3 SP
⑥	5.2	8.7	3	38.7	32	Special cut (SP)	1	22392553	925/3 SP
⑦	6.2	10.5	3	40.5	32	Special cut (SP)	1	22392653	926/3 SP
⑧	8.2	14	3	44	32	Special cut (SP)	1	22392853	928/3 SP

Discontinued product

941–954

Tools designed specifically for fine stock removal.

Image	d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	r [mm]	Cut		Item no.	Designation
①	1.6	1.4	3	31.4	-	Special cut (SP)	1	22394153	941/3 SP
②	2.3	1.7	3	31.7	-	Special cut (SP)	1	22394253	942/3 SP
③	3.2	2.2	3	32.2	-	Special cut (SP)	1	22394353	943/3 SP
④	4	2.9	3	32.9	-	Special cut (SP)	1	22394453	944/3 SP
⑤	5	4.4	3	34.4	-	Special cut (SP)	1	22394553	945/3 SP
⑥	6	5	3	35	-	Special cut (SP)	1	22394653	946/3 SP
⑦	7	6	3	36	-	Special cut (SP)	1	22394753	947/3 SP
⑧	8	7	3	37	-	Special cut (SP)	1	22394853	948/3 SP
⑨	8	2	3	32	9.5	Special cut (SP)	1	22395153	951/3 SP
⑩	10	2.5	3	32.5	11.5	Special cut (SP)	1	22395253	952/3 SP
⑪	12	3	3	33	14	Special cut (SP)	1	22395353	953/3 SP
⑫	14	3.5	3	33.5	15.5	Special cut (SP)	1	22395453	954/3 SP

961–973

Tools designed specifically for fine stock removal.

Image	d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	r [mm]	Cut		Item no.	Designation
①	8	2	3	32	1.1	Special cut (SP)	1	*22396153*	961/3 SP
②	10	2.3	3	32.3	1.15	Special cut (SP)	1	*22396253*	962/3 SP
③	12	2.6	3	32.6	1.3	Special cut (SP)	1	22396353	963/3 SP
④	14	3	3	33	1.5	Special cut (SP)	1	22396453	964/3 SP
⑤	6	1	3	31	-	Special cut (SP)	1	22397153	971/3 SP
⑥	8	1	3	31	-	Special cut (SP)	1	*22397253*	972/3 SP
⑦	10	1	3	31	-	Special cut (SP)	1	22397353	973/3 SP

Set 84 HSS

Set 84 HSS contains 15 HSS finishing cutters for fine stock removal in the most common shapes and dimensions.

Contents:
The set comprises one each of the following:
923, 928, 943, 946, 952, 924, 941, 944, 947, 954, 926, 942, 945, 951 and 973 with a shank diameter of 3 mm, special cut.

Special features:
- The tools are suitable for fine stock removal in small and hard-to-reach places.
- The sturdy plastic box protects the tools against dirt and damage.

Cut		Item no.	Designation
Special cut (SP)	1	22900845	SET HSS 84 SP 15TLG

ALUMASTER High Speed Disc
HSD-F 115/125
Type HSD-F 115/125 was developed specifically for use on angle grinders with a diameter of 115/125 mm and for flat working.

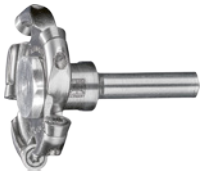
Suitable tool drives:
Compressed-air angle grinder
PWT 26/120 HV M14
Electric angle grinder UWER 18/110 SI

Applications:
- Milling out
- Work on weld seams
- Work on fillet welds
- Work on edges/chamfering
- Surface work

ALUMASTER High Speed Disc
HSD-R 115/125
Type HSD-R 115/125 has taken the HSD-F one step further and is also suitable for applications such as peripheral milling and milling out root seams.

Suitable tool drives:
Compressed-air angle grinder
PWT 26/120 HV M14
Electric angle grinder UWER 18/110 SI

Applications:
- Milling out
- Work on weld seams
- Work on fillet welds
- Work on edges/chamfering
- Surface work
- Milling out root seams
- Circumferential milling



High Speed Disc ALUMASTER
HSD-R 50
Due to its small design, type HSD-R 50 is very well-suited to work in hard-to-reach places and on delicate components. Thanks to its specially developed arbor, the High Speed Disc **ALU**MASTER HSD-R 50 can also be used on straight grinders and flexible shafts as well as angle grinders (mount dia. 10 mm).

Matching tool drives:
Flexible shaft drive Mammoth Electronic ME 22/240
Compressed-air straight grinder PGAS 4/250 E-HV
Compressed-air angle grinder PWSA 4/200 HV

Applications:
- Milling out
- Work on weld seams
- Work on fillet welds
- Work on edges/chamfering
- Surface work
- Milling out root seams
- Circumferential milling

High Speed Torus Cutter
HSC-T 20 RS8
Thanks to its specially developed design, the High Speed Torus Cutter HSC-T 20 is suitable for work on grooves, pockets and narrow radii and contours, particularly in robot applications. The Cutter can also be used face down and perfectly complements the **ALU**MASTER High Speed Disc in the HSD-R 50 version and burrs with the ALU cut.

Matching tool drives:
Air-powered spindle PGAS 4/280 RS
Air-powered spindle PGAS 4/220 RS

Applications:
- Milling out
- Deburring
- Work on weld seams
- Work on fillet welds
- Work on edges/chamfering
- Surface work
- Circumferential milling
- Face milling
- Cleaning cast aluminium

High Speed Disc ALUMASTER
HSD-R 50 RS – suitable only for robot applications

Suitable tool drives:
Air-powered spindle PGAS 4/220 RS
Air-powered spindle PGAS 4/280 RS

Applications:
- Milling out
- Work on weld seams
- Work on fillet welds
- Work on edges/chamfering
- Surface work
- Milling out root seams
- Circumferential milling

High Speed Disc ALUMASTER
HSD-R 125 RS – suitable only for robot applications

Suitable tool drives:
Air-powered spindle PWA 11/120 RS

Applications:
- Milling out
- Work on weld seams
- Work on fillet welds
- Work on edges/chamfering
- Surface work
- Milling out root seams
- Circumferential milling

High Speed Disc ALUMASTER
HSD-R 150 RS – suitable only for robot applications

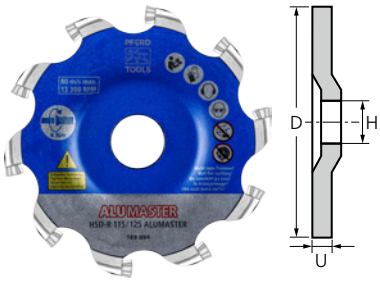
Suitable tool drives:
High-frequency spindles

Applications:
- Milling out
- Work on weld seams
- Work on fillet welds
- Work on edges/chamfering
- Surface work
- Milling out root seams
- Circumferential milling

Selecting suitable cutting inserts

- Uncoated cutting inserts are suitable for general use on soft non-ferrous metals (aluminium alloys, brass, copper, zinc).
- PFERD TOOLS recommends cutting inserts with the high-quality HICOAT coating for high-performance applications on soft non-ferrous metals (aluminium alloys, brass, copper, zinc), hard non-ferrous metals (hard aluminium alloys with high Si content, bronze) as well as fibre-reinforced plastics (GRP/CRP) and thermoplastics.

ALUMASTER High Speed Disc



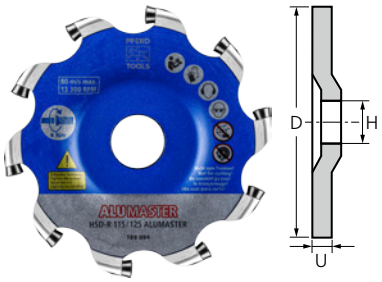
High Speed Disc ALUMASTER HSD-R 115/125

High-performance tool for peripheral milling and milling out root seams using an angle grinder. The specially developed, turnable and replaceable tungsten carbide cutting inserts enable an extremely high stock removal rate on aluminium alloys.

Contents:
The delivery includes the High Speed Disc **ALU**MASTER HSD-R 115/125 incl. premounted tungsten carbide cutting inserts, a hexalobular socket wrench and a plastic box.

Special features:
- An extraction system is not required as no hazardous or explosive dust is generated.
- Innovative, robust cut geometry for maximum safety, extreme durability and ease of work.

D [mm]	H [mm]	U [mm]	Max. RPM		Item no.	Designation
115	22.23	8	13,300	1	22000019	HSD-R 115/125 ALUMASTER



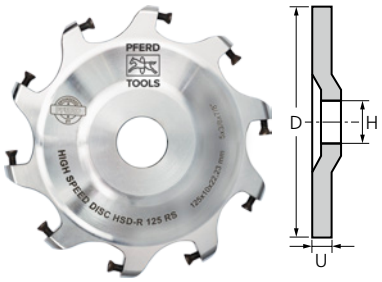
High Speed Disc ALUMASTER HSD-R 115/125 HICOAT

High-performance tool for peripheral milling and milling out root seams using an angle grinder. The specially developed, turnable and replaceable tungsten carbide cutting inserts enable an extremely high stock removal rate on aluminium alloys.

Contents:
The delivery includes the High Speed Disc **ALU**MASTER HSD-R 115/125 HICOAT incl. pre-mounted tungsten carbide cutting inserts, a hexalobular socket wrench and a plastic box.

Special features:
- Cutting inserts with HICOAT coating for reduced material adhesion and a longer tool life.
- An extraction system is not required as no hazardous or explosive dust is generated.
- Innovative, robust cut geometry for maximum safety, extreme durability and ease of work.

D [mm]	H [mm]	U [mm]	Max. RPM		Item no.	Designation
115	22.23	8	13,300	1	22000021	HSD-R 115/125 ALUMASTER HICOAT

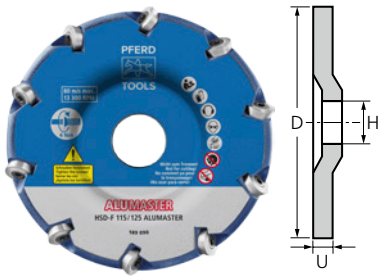


High Speed Disc ALUMASTER HSD-R RS

Special tool for processing aluminium alloys in robot applications. The tool for robot applications is used with two turnable and replaceable tungsten carbide cutting inserts. The cutting inserts are not included in delivery.

Special features:
- Extremely high stock removal rate on aluminium materials.

D [mm]	U [mm]	Max. RPM		Item no.	Designation
50	9	28,000	1	22000032	HSD-R 50 RS ALUMASTER
125	15	12,200	1	22000033	HSD-R 125 RS ALUMASTER
150	15	10,200	1	22000034	HSD-R 150 RS ALUMASTER



High Speed Disc ALUMASTER HSD-F 115/125

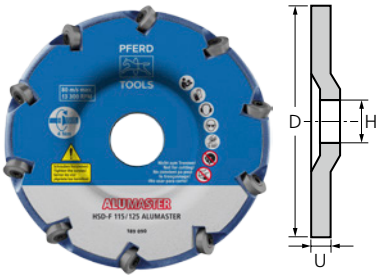
High-performance tool for surface work with an angle grinder. The specially developed, turnable and replaceable tungsten carbide cutting inserts enable an extremely high stock removal rate on aluminium alloys.

Contents:
The delivery includes the High Speed Disc **ALU**MASTER HSD-F 115/125 incl. pre-mounted tungsten carbide cutting inserts, a hexalobular socket wrench and a plastic box.

Special features:
- An extraction system is not required as no hazardous or explosive dust is generated.
- Innovative, robust cut geometry for maximum safety, extreme durability and ease of work.

D [mm]	H [mm]	U [mm]	Max. RPM		Item no.	Designation
115	22.23	13	13,300	1	22000009	HSD-F 115/125 ALUMASTER

New item



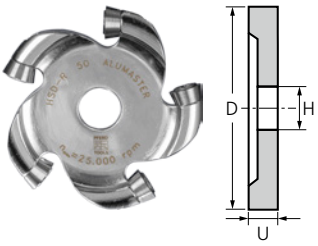
High Speed Disc ALUMASTER HSD-F 115/125 HICOAT

High-performance tool for surface work with an angle grinder. The specially developed, turnable and replaceable tungsten carbide cutting inserts enable an extremely high stock removal rate on aluminium alloys.

Contents:
The delivery includes the High Speed Disc **ALU**MASTER HSD-F 115/125 HICOAT incl. pre-mounted tungsten carbide cutting inserts, a hexalobular socket wrench and a plastic box.

Special features:
- Cutting inserts with HICOAT coating for reduced material adhesion and a longer tool life.
- An extraction system is not required as no hazardous or explosive dust is generated.
- Innovative, robust cut geometry for maximum safety, extreme durability and ease of work.

D [mm]	H [mm]	U [mm]	Max. RPM		Item no.	Designation
115	22.23	13	13,300	1	22000012	HSD-F 115/125 ALUMASTER HICOAT



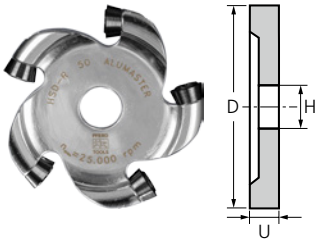
High Speed Disc ALUMASTER HSD-R 50

High-performance tool for hard-to-reach areas and delicate components. The specially developed, turnable and replaceable tungsten carbide cutting inserts enable an extremely high stock removal rate on aluminium alloys. A guard is not needed (tool diameter = 49 mm).

Contents:
The delivery includes the High Speed Disc **ALU**MASTER HSD-R 50 incl. pre-mounted tungsten carbide cutting inserts, a hexalobular socket wrench and a plastic box.

Special features:
- Can be used on angle grinders (mount dia. 10 mm), straight grinders and flexible shafts in conjunction with specially developed arbor.
- An extraction system is not required as no hazardous or explosive dust is generated.

D [mm]	H [mm]	U [mm]	Max. RPM		Item no.	Designation
49	10	8	25,000	1	22000025	HSD-R 50 ALUMASTER



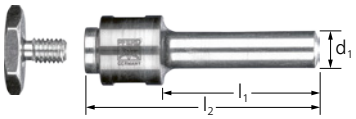
High Speed Disc ALUMASTER HSD-R 50 HICOAT

High-performance tool for hard-to-reach areas and delicate components. The specially developed, turnable and replaceable tungsten carbide cutting inserts enable an extremely high stock removal rate on very challenging aluminium alloys. A guard is not needed (tool diameter = 49 mm).

Contents:
The delivery includes the High Speed Disc **ALU**MASTER HSD-R 50 HICOAT incl. pre-mounted tungsten carbide cutting inserts, a hexalobular socket wrench and a plastic box.

Special features:
- Cutting inserts with HICOAT coating for reduced material adhesion and a longer tool life.
- Can be used on angle grinders (mount dia. 10 mm), straight grinders and flexible shafts in conjunction with specially developed arbor.
- An extraction system is not required as no hazardous or explosive dust is generated.

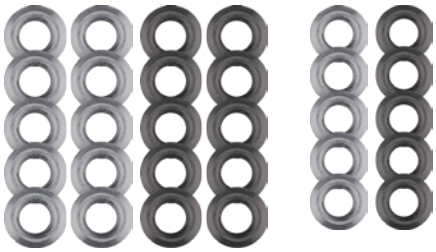
D [mm]	H [mm]	U [mm]	Max. RPM		Item no.	Designation
49	10	8	25,000	1	22000027	HSD-R 50 ALUMASTER HICOAT



Arbor for High Speed Disc ALUMASTER HSD-R 50

For use on flexible shaft drives, straight grinders and robot spindles.

d_1 [mm]	l_1 [mm]	l_2 [mm]	Suitable for		Item no.	Designation
10	18	36	ALUMASTER HSD-R 50, ALUMASTER HSD-R 50 RS	1	22000036	BO M10/10 HSD-R50 DEPO
8	33	50	ALUMASTER HSD-R 50	1	22000011	BO 8/10 HSD-R 50



HICOAT HICOAT

Cutting insert sets

Cutting insert set for **ALU**MASTER High Speed Disc.

D [mm]	Contents [Piece]	Suitable for	Version		Item no.	Designation
10	10	ALUMASTER HSD-R 125 RS, ALUMASTER HSD-R 150 RS, ALUMASTER HSD-R 50 RS-	Without coating	1	22000035	RS WSP-A-10R
8	5	ALUMASTER HSD-R 50	Without coating	1	22000026	WSP-A-8R 50 ALUMASTER
			With HICOAT coating	1	22000028	WSP-A-8R 50 ALUMASTER HICOAT
	10	ALUMASTER HSD-R 115/125	Without coating	1	22000020	WSP-A-8R 115/125 ALUMASTER
			With HICOAT coating	1	22000022	WSP-A-8R 115/125 ALUMASTER HICOAT
12	10	ALUMASTER HSD-F	Without coating	1	22000008	WSP-A-12R 115/125 ALUMASTER
			With HICOAT coating	1	22000013	WSP-A-12R 115/125 ALUMASTER HICOAT

Bolt sets for cutting inserts

Bolt set for PFERD TOOLS cutting inserts.

Suitable for cutting inserts	Contents [Piece]		Item no.	Designation
EF-WSP-F, EF-WSP-R3	5	1	22000007	WSP-S-M4S

HICOAT

ALUMASTER service sets

For replacing individual cutting inserts on the **ALU**MASTER High Speed Disc.

Contents:
The delivery includes two cutting inserts, two screws and a hexalobular socket wrench.

Suitable for	Version		Item no.	Designation
ALUMASTER HSD-R 50	Without coating	1	22000029	ASS-R8 50 ALUMASTER
	With HICOAT coating	1	22000030	ASS-R8 50 ALUMASTER HICOAT
ALUMASTER HSD-R 115/125	Without coating	1	22000023	ASS-R8 115/125 ALUMASTER
	With HICOAT coating	1	22000024	ASS-R8 115/125 ALUMASTER HICOAT
ALUMASTER HSD-F	Without coating	1	22000014	ASS-R12 115/125 ALUMASTER
	With HICOAT coating	1	22000015	ASS-R12 115/125 ALUMASTER HICOAT

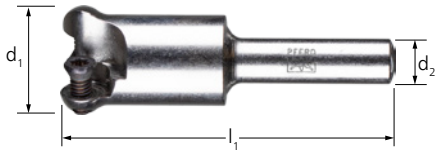
New item

Torque spanner and spare blade

WIHA torque spanner with a tightening torque of 4 Nm for optimally and securely mounting cutting inserts on the **ALU**MASTER High Speed Disc.

	Item no.	Designation
Torque spanner for ALUMASTER		
1	22000017	DSWK WIHA Torque 4,0
Spare blade for torque spanner		
1	22000018	TWK WIHA Torque T15

High Speed Torus Cutter



High Speed Torus Cutter HSC-T 20

High Speed Torus Cutter including two mounting bolts. The tool for robot applications is used with two turnable and replaceable tungsten carbide cutting inserts and offers an extremely high stock removal rate on aluminium materials. The cutting inserts are not included in delivery.

Special features:
- Specially developed design for work on grooves, pockets and narrow radii and contours. Can also be used face down.
- An extraction system is not required as no hazardous or explosive dust is generated.
- Reduced vibration thanks to small contact surface.

d_1 [mm]	l_1 [mm]	d_2 [mm]	Suitable for cutting insert diameter [mm]	RPM [mm]		Item no.	Designation
20	48	10	10	20,000 – 30,000	1	23000207	HSC-T20 DEPO M10
	60	8	10	20,000 – 30,000	1	23000047	HSC-T 20 RS8

Cutting insert set for High Speed Torus Cutter

Cutting insert set for the High Speed Torus Cutter.

D [mm]	Contents [Piece]	Suitable for		Item no.	Designation
10	4	High Speed Torus Cutter HSC-T 20 RS8	1	23000048	WSP-T 10R ALU

Bolt set for cutting inserts

Bolt set for the PFERD TOOLS cutting inserts of the High Speed Torus Cutter.

Suitable for cutting inserts	Contents [Piece]		Item no.	Designation
WSP-T 10R ALU	4	1	23000049	WSP-S M4 HSC-T

New item

High Speed Torus Cutter service set

For replacing individual cutting inserts on the High Speed Torus Cutter.

Contents:
The delivery includes one cutting insert,
one screw and a hexalobular socket wrench
TX 15.

Suitable for		Item no.	Designation
High Speed Torus Cutter HSC-T 20 RS8	1	23000050	TSS-10R ALU

EDGE FINISH system for work on edges

Cutting insert set with 3 mm radius

Cutting insert set for the EDGE FINISH system for work on edges. The radius version for steel applications produces a defined radius of 3 mm and is used when it is necessary to round edges as a precautionary measure for anti-corrosion protection.

Special features:
- The best possible stock removal rate and a long tool life thanks to specially coated cutting inserts.

Suitable for cutting insert mounting	r [mm]	Contents [Piece]	Version		Item no.	Designation
Cutting insert set with 3 mm radius						
EF-WSP-A R3/45°	3	3	STEEL	1	22000001	EF-WSP-R3

Cutting inset set chamfer

Cutting insert sets for the EDGE FINISH system for work on edges. For creating chamfers of 30° and 45°.

Special features:
- The best possible stock removal rate and a long tool life thanks to specially coated cutting inserts.

Suitable for cutting insert mounting	α [°]	Contents [Piece]	Version		Item no.	Designation
Cutting inset set chamfer						
EF-WSP-A 30°, EF-WSP-A R3/45°	45	3	INOX	1	22000016	EF WSP-F INOX
			STEEL	1	22000002	EF-WSP-F STEEL

① ②

Cutting insert holder for EDGE FINISH

Cutting insert holders for the EDGE FINISH system for work on edges. The cutting inserts and matching bolt set are not included in delivery. Please order them separately.

Image	Suitable for cutting inserts	Suitable for machine types	α [°]	r [mm]		Item no.	Designation
Cutting insert holder with 3 mm radius/45° chamfer							
①	EF-WSP-F, EF-WSP-R3	UWER 18/110 EF	45	3	1	22000006	EF-WSP-A R3/45°
Cutting insert holder with 30° chamfer							
②	EF-WSP-F	UWER 18/110 EF	30	-	1	22000005	EF-WSP-A 30°

①

②

Guide bearing for EDGE FINISH

Guide bearings for the EDGE FINISH system for work on edges. Delivery includes MG INOX locking nut.

Special features:
- Optimally guided along the edge to be machined.

Image	Suitable for cutting insert mounting		Item no.	Designation
Guide bearing with 3 mm radius/45° chamfer				
①	EF-WSP-A R3/45°	1	22000004	EF-FL-R3/45°
Guide bearing with 30° chamfer				
②	EF-WSP-A 30°	1	22000003	EF-FL-30°

Bolt set for cutting inserts

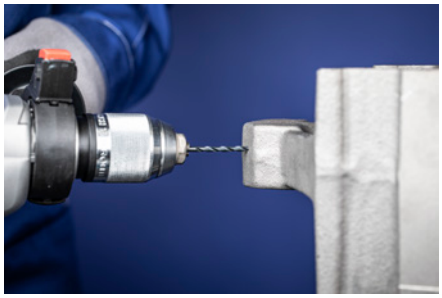
Bolt set for PFERD TOOLS cutting inserts.

Suitable for cutting inserts	Contents [Piece]		Item no.	Designation
EF-WSP-F, EF-WSP-R3	5	1	22000007	WSP-S-M4S

Recommended rotational speed range [RPM]

To determine the recommended cutting speed range [m/min], please proceed as follows:
① Select the material group to be machined.
② Select the type.
③ Establish the cutting speed range.

To determine the recommended rotational speed range [RPM], please proceed as follows:
④ Select the required diameter.
⑤ The cutting speed range and the diameter determine the recommended rotational speed range.

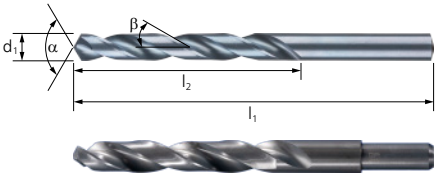


① Material group			② Design	③ Cutting speed
Steel, cast steel	Steels up to 700 N/mm² (< 220 HB)	Construction steels, carbon steels, tool steels, alloyed and non-alloyed steels, case-hardened steels, cast steel, tempering steels	STEEL	25–35 m/min
	Steels over 700 N/mm² (> 220 HB)		STEEL	20–25 m/min
			INOX	
Stainless steel (INOX)	Rust and acid-resistant steels	Austenitic and ferritic stainless steels	INOX	10–20 m/min
Non-ferrous metals	Soft non-ferrous metals	Aluminium alloys Brass, copper, zinc	STEEL	30–60 m/min
			INOX	
	Hard non-ferrous metals	Bronze, titanium/titanium alloys, hard aluminium alloys (high Si content)	STEEL	25–50 m/min
			INOX	
Cast iron	Grey cast iron, white cast iron	Cast iron with flake graphite EN-GJL (GG), with nodular graphite/nodular cast iron EN-GJS (GGG), white annealed cast iron EN-GJMW (GTW), black annealed cast iron EN-GJMB (GTS)	STEEL	10–25 m/min
			INOX	
Plastics, other materials	Fibre-reinforced thermoplastics and duroplastics, hard rubber, wood		STEEL	15–40 m/min
			INOX	

HSS spiral drill

Example:
Spiral drill,
SPB DIN 338 HSSG N 12.0 STEEL,
Tool dia. 12 mm.
Steels up to 700 N/mm².
Cutting speed: 25–35 m/min
Rotational speed range: 650–950 RPM

④ Tool dia. [mm]	⑤ Cutting speeds [m/min]								
	10	15	20	25	30	35	40	50	60
	Rotational speeds [RPM]								
1	3,185	4,777	6,369	7,962	9,554	11,146	12,739	15,924	19,108
1.1	2,895	4,343	5,790	7,238	8,686	10,133	11,581	14,476	17,371
1.2	2,654	3,981	5,308	6,635	7,962	9,289	10,616	13,270	15,924
1.3	2,450	3,675	4,900	6,124	7,349	8,574	9,799	12,249	14,699
1.4	2,275	3,412	4,550	5,687	6,824	7,962	9,099	11,374	13,649
1.5	2,123	3,185	4,246	5,308	6,369	7,431	8,493	10,616	12,739
1.6	1,990	2,986	3,981	4,976	5,971	6,967	7,962	9,952	11,943
1.7	1,873	2,810	3,747	4,683	5,620	6,557	7,493	9,367	11,240
1.8	1,769	2,654	3,539	4,423	5,308	6,192	7,077	8,846	10,616
1.9	1,676	2,514	3,352	4,190	5,028	5,867	6,705	8,381	10,057
2	1,592	2,389	3,185	3,981	4,777	5,573	6,369	7,962	9,554
2.1	1,517	2,275	3,033	3,791	4,550	5,308	6,066	7,583	9,099
2.2	1,448	2,171	2,895	3,619	4,343	5,067	5,790	7,238	8,686
2.3	1,385	2,077	2,769	3,462	4,154	4,846	5,539	6,923	8,308
2.4	1,327	1,990	2,654	3,317	3,981	4,644	5,308	6,635	7,962
2.5	1,274	1,911	2,548	3,185	3,822	4,459	5,096	6,369	7,643
2.6	1,225	1,837	2,450	3,062	3,675	4,287	4,900	6,124	7,349
2.7	1,180	1,769	2,359	2,949	3,539	4,128	4,718	5,898	7,077
2.8	1,137	1,706	2,275	2,843	3,412	3,981	4,550	5,687	6,824
2.9	1,098	1,647	2,196	2,745	3,295	3,844	4,393	5,491	6,589
3	1,062	1,592	2,123	2,654	3,185	3,715	4,246	5,308	6,369
3.1	1,027	1,541	2,055	2,568	3,082	3,596	4,109	5,137	6,164
3.2	995	1,493	1,990	2,488	2,986	3,483	3,981	4,976	5,971
3.3	965	1,448	1,930	2,413	2,895	3,378	3,860	4,825	5,790
3.4	937	1,405	1,873	2,342	2,810	3,278	3,747	4,683	5,620
3.5	910	1,365	1,820	2,275	2,730	3,185	3,640	4,550	5,460
3.6	885	1,327	1,769	2,212	2,654	3,096	3,539	4,423	5,308
3.7	861	1,291	1,721	2,152	2,582	3,013	3,443	4,304	5,164
3.8	838	1,257	1,676	2,095	2,514	2,933	3,352	4,190	5,028
3.9	817	1,225	1,633	2,041	2,450	2,858	3,266	4,083	4,900
4	796	1,194	1,592	1,990	2,389	2,787	3,185	3,981	4,777
4.5	708	1,062	1,415	1,769	2,123	2,477	2,831	3,539	4,246
5	637	955	1,274	1,592	1,911	2,229	2,548	3,185	3,822
5.5	579	869	1,158	1,448	1,737	2,027	2,316	2,895	3,474
6	531	796	1,062	1,327	1,592	1,858	2,123	2,654	3,185
6.5	490	735	980	1,225	1,470	1,715	1,960	2,450	2,940
7	455	682	910	1,137	1,365	1,592	1,820	2,275	2,730
7.5	425	637	849	1,062	1,274	1,486	1,699	2,123	2,548
8	398	597	796	995	1,194	1,393	1,592	1,990	2,389
8.5	375	562	749	937	1,124	1,311	1,499	1,873	2,248
9	354	531	708	885	1,062	1,238	1,415	1,769	2,123
9.5	335	503	670	838	1,006	1,173	1,341	1,676	2,011
10	318	478	637	796	955	1,115	1,274	1,592	1,911
10.5	303	455	607	758	910	1,062	1,213	1,517	1,820
11	290	434	579	724	869	1,013	1,158	1,448	1,737
11.5	277	415	554	692	831	969	1,108	1,385	1,662
12	265	398	531	663	796	929	1,062	1,327	1,592
12.5	255	382	510	637	764	892	1,019	1,274	1,529
13	245	367	490	612	735	857	980	1,225	1,470
13.5	236	354	472	590	708	826	944	1,180	1,415
14	227	341	455	569	682	796	910	1,137	1,365
14.5	220	329	439	549	659	769	879	1,098	1,318
15	212	318	425	531	637	743	849	1,062	1,274
15.5	205	308	411	514	616	719	822	1,027	1,233
16	199	299	398	498	597	697	796	995	1,194



DIN 338 HSSG N STEEL spiral drill

High-performance drilling tools in the STEEL in HSSG (M2) version for universal industrial use on steel, aluminium, brass, bronze, cast material and plastics. Fully ground, right-hand turning version with cross grinding. With dia. 13 x 35 mm stepped shank as from a drill dia. of 13.5 mm.

Special features:
- Long tool life and easy centring.
- Good chip removal and high concentricity.

d_1 [mm]	l_2 [mm]	l_1 [mm]	α [°]	Spiral angle β [°]	Version		Item no.	Designation
1	12	34	118	25 – 30	STEEL	10	25203510	SPB DIN 338 HSSG N 1,0 STEEL
1.1	14	36	118	25 – 30	STEEL	10	25203586	SPB DIN 338 HSSG N 1,1 STEEL
1.2	16	38	118	25 – 30	STEEL	10	25203587	SPB DIN 338 HSSG N 1,2 STEEL
1.3	16	38	118	25 – 30	STEEL	10	25203588	SPB DIN 338 HSSG N 1,3 STEEL
1.4	18	40	118	25 – 30	STEEL	10	25203589	SPB DIN 338 HSSG N 1,4 STEEL
1.5	18	40	118	25 – 30	STEEL	10	25203511	SPB DIN 338 HSSG N 1,5 STEEL
1.6	20	43	118	25 – 30	STEEL	10	25203512	SPB DIN 338 HSSG N 1,6 STEEL
1.7	20	43	118	25 – 30	STEEL	10	25203590	SPB DIN 338 HSSG N 1,7 STEEL
1.8	22	46	118	25 – 30	STEEL	10	25203591	SPB DIN 338 HSSG N 1,8 STEEL
1.9	22	46	118	25 – 30	STEEL	10	25203592	SPB DIN 338 HSSG N 1,9 STEEL
2	24	49	118	25 – 30	STEEL	10	25203513	SPB DIN 338 HSSG N 2,0 STEEL
2.1	24	49	118	25 – 30	STEEL	10	25203593	SPB DIN 338 HSSG N 2,1 STEEL
2.2	27	53	118	25 – 30	STEEL	10	25203594	SPB DIN 338 HSSG N 2,2 STEEL
2.3	27	53	118	25 – 30	STEEL	10	25203595	SPB DIN 338 HSSG N 2,3 STEEL
2.4	30	57	118	25 – 30	STEEL	10	25203596	SPB DIN 338 HSSG N 2,4 STEEL
2.5	30	57	118	25 – 30	STEEL	10	25203514	SPB DIN 338 HSSG N 2,5 STEEL
2.6	30	57	118	25 – 30	STEEL	10	25203597	SPB DIN 338 HSSG N 2,6 STEEL
2.7	33	61	118	25 – 30	STEEL	10	25203598	SPB DIN 338 HSSG N 2,7 STEEL
2.8	33	61	118	25 – 30	STEEL	10	25203599	SPB DIN 338 HSSG N 2,8 STEEL
2.9	33	61	118	25 – 30	STEEL	10	25203650	SPB DIN 338 HSSG N 2,9 STEEL
3	33	61	118	25 – 30	STEEL	10	25203515	SPB DIN 338 HSSG N 3,0 STEEL
3.1	36	65	118	25 – 30	STEEL	10	25203516	SPB DIN 338 HSSG N 3,1 STEEL
3.2	36	65	118	25 – 30	STEEL	10	25203651	SPB DIN 338 HSSG N 3,2 STEEL
3.3	36	65	118	25 – 30	STEEL	10	25203517	SPB DIN 338 HSSG N 3,3 STEEL
3.4	39	70	118	25 – 30	STEEL	10	25203518	SPB DIN 338 HSSG N 3,4 STEEL
3.5	39	70	118	25 – 30	STEEL	10	25203519	SPB DIN 338 HSSG N 3,5 STEEL
3.6	39	70	118	25 – 30	STEEL	10	25203520	SPB DIN 338 HSSG N 3,6 STEEL
3.7	39	70	118	25 – 30	STEEL	10	25203652	SPB DIN 338 HSSG N 3,7 STEEL
3.8	43	75	118	25 – 30	STEEL	10	25203653	SPB DIN 338 HSSG N 3,8 STEEL
3.9	43	75	118	25 – 30	STEEL	10	25203654	SPB DIN 338 HSSG N 3,9 STEEL
4	43	75	118	25 – 30	STEEL	10	25203521	SPB DIN 338 HSSG N 4,0 STEEL
4.1	43	75	118	25 – 30	STEEL	10	25203522	SPB DIN 338 HSSG N 4,1 STEEL
4.2	43	75	118	25 – 30	STEEL	10	25203523	SPB DIN 338 HSSG N 4,2 STEEL
4.3	47	80	118	25 – 30	STEEL	10	25203655	SPB DIN 338 HSSG N 4,3 STEEL
4.4	47	80	118	25 – 30	STEEL	10	25203524	SPB DIN 338 HSSG N 4,4 STEEL
4.5	47	80	118	25 – 30	STEEL	10	25203525	SPB DIN 338 HSSG N 4,5 STEEL
4.6	47	80	118	25 – 30	STEEL	10	25203656	SPB DIN 338 HSSG N 4,6 STEEL
4.7	47	80	118	25 – 30	STEEL	10	25203657	SPB DIN 338 HSSG N 4,7 STEEL
4.8	53	86	118	25 – 30	STEEL	10	25203658	SPB DIN 338 HSSG N 4,8 STEEL
4.9	53	86	118	25 – 30	STEEL	10	25203659	SPB DIN 338 HSSG N 4,9 STEEL
5	52	86	118	25 – 30	STEEL	10	25203526	SPB DIN 338 HSSG N 5,0 STEEL
5.1	52	86	118	25 – 30	STEEL	10	25203527	SPB DIN 338 HSSG N 5,1 STEEL
5.2	52	86	118	25 – 30	STEEL	10	25203528	SPB DIN 338 HSSG N 5,2 STEEL
5.3	52	86	118	25 – 30	STEEL	10	25203529	SPB DIN 338 HSSG N 5,3 STEEL
5.4	57	93	118	25 – 30	STEEL	10	25203660	SPB DIN 338 HSSG N 5,4 STEEL
5.5	57	93	118	25 – 30	STEEL	10	25203530	SPB DIN 338 HSSG N 5,5 STEEL
5.6	57	93	118	25 – 30	STEEL	10	25203661	SPB DIN 338 HSSG N 5,6 STEEL

Continued on next page

d_1 [mm]	l_2 [mm]	l_1 [mm]	α [°]	Spiral angle β [°]	Version		Item no.	Designation
5.7	57	93	118	25 – 30	STEEL	10	25203662	SPB DIN 338 HSSG N 5,7 STEEL
5.8	57	93	118	25 – 30	STEEL	10	25203663	SPB DIN 338 HSSG N 5,8 STEEL
5.9	57	93	118	25 – 30	STEEL	10	25203664	SPB DIN 338 HSSG N 5,9 STEEL
6	57	93	118	25 – 30	STEEL	10	25203531	SPB DIN 338 HSSG N 6,0 STEEL
6.1	63	101	118	25 – 30	STEEL	10	25203665	SPB DIN 338 HSSG N 6,1 STEEL
6.2	63	101	118	25 – 30	STEEL	10	25203666	SPB DIN 338 HSSG N 6,2 STEEL
6.3	63	101	118	25 – 30	STEEL	10	25203667	SPB DIN 338 HSSG N 6,3 STEEL
6.4	63	101	118	25 – 30	STEEL	10	25203668	SPB DIN 338 HSSG N 6,4 STEEL
6.5	63	101	118	25 – 30	STEEL	10	25203532	SPB DIN 338 HSSG N 6,5 STEEL
6.6	63	101	118	25 – 30	STEEL	10	25203669	SPB DIN 338 HSSG N 6,6 STEEL
6.7	63	101	118	25 – 30	STEEL	10	25203670	SPB DIN 338 HSSG N 6,7 STEEL
6.8	69	109	118	25 – 30	STEEL	10	25203533	SPB DIN 338 HSSG N 6,8 STEEL
6.9	69	109	118	25 – 30	STEEL	10	25203671	SPB DIN 338 HSSG N 6,9 STEEL
7	69	109	118	25 – 30	STEEL	10	25203534	SPB DIN 338 HSSG N 7,0 STEEL
7.1	69	109	118	25 – 30	STEEL	10	25203672	SPB DIN 338 HSSG N 7,1 STEEL
7.2	69	109	118	25 – 30	STEEL	10	25203673	SPB DIN 338 HSSG N 7,2 STEEL
7.3	69	109	118	25 – 30	STEEL	10	25203674	SPB DIN 338 HSSG N 7,3 STEEL
7.4	69	117	118	25 – 30	STEEL	10	25203675	SPB DIN 338 HSSG N 7,4 STEEL
7.5	69	109	118	25 – 30	STEEL	10	25203535	SPB DIN 338 HSSG N 7,5 STEEL
7.6	75	117	118	25 – 30	STEEL	10	25203676	SPB DIN 338 HSSG N 7,6 STEEL
7.7	75	117	118	25 – 30	STEEL	10	25203677	SPB DIN 338 HSSG N 7,7 STEEL
7.8	75	117	118	25 – 30	STEEL	10	25203678	SPB DIN 338 HSSG N 7,8 STEEL
7.9	75	117	118	25 – 30	STEEL	10	25203679	SPB DIN 338 HSSG N 7,9 STEEL
8	75	117	118	25 – 30	STEEL	10	25203536	SPB DIN 338 HSSG N 8,0 STEEL
8.1	75	117	118	25 – 30	STEEL	10	25203680	SPB DIN 338 HSSG N 8,1 STEEL
8.2	75	117	118	25 – 30	STEEL	10	25203681	SPB DIN 338 HSSG N 8,2 STEEL
8.3	75	117	118	25 – 30	STEEL	10	25203682	SPB DIN 338 HSSG N 8,3 STEEL
8.4	75	117	118	25 – 30	STEEL	10	25203683	SPB DIN 338 HSSG N 8,4 STEEL
8.5	75	117	118	25 – 30	STEEL	10	25203537	SPB DIN 338 HSSG N 8,5 STEEL
8.6	81	125	118	25 – 30	STEEL	10	25203684	SPB DIN 338 HSSG N 8,6 STEEL
8.7	81	125	118	25 – 30	STEEL	10	25203685	SPB DIN 338 HSSG N 8,7 STEEL
8.8	81	125	118	25 – 30	STEEL	10	25203686	SPB DIN 338 HSSG N 8,8 STEEL
8.9	81	125	118	25 – 30	STEEL	10	25203687	SPB DIN 338 HSSG N 8,9 STEEL
9	75	125	118	25 – 30	STEEL	10	25203538	SPB DIN 338 HSSG N 9,0 STEEL
9.1	81	125	118	25 – 30	STEEL	10	25203688	SPB DIN 338 HSSG N 9,1 STEEL
9.2	81	125	118	25 – 30	STEEL	10	25203689	SPB DIN 338 HSSG N 9,2 STEEL
9.3	81	125	118	25 – 30	STEEL	10	25203690	SPB DIN 338 HSSG N 9,3 STEEL
9.4	81	125	118	25 – 30	STEEL	10	25203691	SPB DIN 338 HSSG N 9,4 STEEL
9.5	81	125	118	25 – 30	STEEL	10	25203539	SPB DIN 338 HSSG N 9,5 STEEL
9.6	87	133	118	25 – 30	STEEL	10	25203692	SPB DIN 338 HSSG N 9,6 STEEL
9.7	87	133	118	25 – 30	STEEL	10	25203693	SPB DIN 338 HSSG N 9,7 STEEL
9.8	87	133	118	25 – 30	STEEL	10	25203694	SPB DIN 338 HSSG N 9,8 STEEL
9.9	87	133	118	25 – 30	STEEL	10	25203695	SPB DIN 338 HSSG N 9,9 STEEL
10	87	133	118	25 – 30	STEEL	10	25203540	SPB DIN 338 HSSG N 10,0 STEEL
10.1	87	133	118	25 – 30	STEEL	5	25203696	SPB DIN 338 HSSG N 10,1 STEEL
10.2	87	133	118	25 – 30	STEEL	5	25203541	SPB DIN 338 HSSG N 10,2 STEEL
10.3	87	133	118	25 – 30	STEEL	5	25203697	SPB DIN 338 HSSG N 10,3 STEEL
10.4	87	133	118	25 – 30	STEEL	5	25203698	SPB DIN 338 HSSG N 10,4 STEEL
10.5	87	133	118	25 – 30	STEEL	5	25203542	SPB DIN 338 HSSG N 10,5 STEEL
10.6	94	133	118	25 – 30	STEEL	5	25203699	SPB DIN 338 HSSG N 10,6 STEEL
10.7	94	142	118	25 – 30	STEEL	5	25203700	SPB DIN 338 HSSG N 10,7 STEEL
10.8	87	142	118	25 – 30	STEEL	5	25203706	SPB DIN 338 HSSG N 10,8 STEEL
10.9	94	142	118	25 – 30	STEEL	5	25203707	SPB DIN 338 HSSG N 10,9 STEEL
11	94	142	118	25 – 30	STEEL	5	25203543	SPB DIN 338 HSSG N 11,0 STEEL

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d_1 [mm]	l_2 [mm]	l_1 [mm]	α [°]	Spiral angle β [°]	Version		Item no.	Designation
11.1	94	142	118	25 – 30	STEEL	5	25203708	SPB DIN 338 HSSG N 11,1 STEEL
11.2	94	142	118	25 – 30	STEEL	5	25203709	SPB DIN 338 HSSG N 11,2 STEEL
11.3	94	142	118	25 – 30	STEEL	5	25203710	SPB DIN 338 HSSG N 11,3 STEEL
11.4	94	142	118	25 – 30	STEEL	5	25203711	SPB DIN 338 HSSG N 11,4 STEEL
11.5	94	142	118	25 – 30	STEEL	5	25203544	SPB DIN 338 HSSG N 11,5 STEEL
11.6	94	142	118	25 – 30	STEEL	5	25203712	SPB DIN 338 HSSG N 11,6 STEEL
11.7	94	142	118	25 – 30	STEEL	5	25203713	SPB DIN 338 HSSG N 11,7 STEEL
11.8	94	142	118	25 – 30	STEEL	5	25203714	SPB DIN 338 HSSG N 11,8 STEEL
11.9	101	151	118	25 – 30	STEEL	5	25203715	SPB DIN 338 HSSG N 11,9 STEEL
12	101	151	118	25 – 30	STEEL	5	25203545	SPB DIN 338 HSSG N 12,0 STEEL
12.1	101	151	118	25 – 30	STEEL	5	25203716	SPB DIN 338 HSSG N 12,1 STEEL
12.2	101	151	118	25 – 30	STEEL	5	25203717	SPB DIN 338 HSSG N 12,2 STEEL
12.3	101	151	118	25 – 30	STEEL	5	25203718	SPB DIN 338 HSSG N 12,3 STEEL
12.4	101	151	118	25 – 30	STEEL	5	25203719	SPB DIN 338 HSSG N 12,4 STEEL
12.5	101	151	118	25 – 30	STEEL	5	25203546	SPB DIN 338 HSSG N 12,5 STEEL
12.6	101	151	118	25 – 30	STEEL	5	25203720	SPB DIN 338 HSSG N 12,6 STEEL
12.7	101	151	118	25 – 30	STEEL	5	25203721	SPB DIN 338 HSSG N 12,7 STEEL
12.8	101	151	118	25 – 30	STEEL	5	25203722	SPB DIN 338 HSSG N 12,8 STEEL
12.9	101	151	118	25 – 30	STEEL	5	25203818	SPB DIN 338 HSSG N 12,9 STEEL
13	101	151	118	25 – 30	STEEL	5	25203547	SPB DIN 338 HSSG N 13,0 STEEL
13.5	108	160	118	25 – 30	STEEL	1	25203723	SPB DIN 338 HSSG N 13,5 STEEL
14	108	160	118	25 – 30	STEEL	1	25203724	SPB DIN 338 HSSG N 14,0 STEEL
14.5	114	169	118	25 – 30	STEEL	1	25203725	SPB DIN 338 HSSG N 14,5 STEEL
15	114	169	118	25 – 30	STEEL	1	25203726	SPB DIN 338 HSSG N 15,0 STEEL
15.5	120	178	118	25 – 30	STEEL	1	25203727	SPB DIN 338 HSSG N 15,5 STEEL
16	120	178	118	25 – 30	STEEL	1	25203728	SPB DIN 338 HSSG N 16,0 STEEL

DIN 338 HSSG N STEEL spiral drills, 19-piece set

The set contains 19 HSS spiral drills in the STEEL in HSSG (M2) type for industrial uses.

Contents:
The set consists of 19 HSS spiral drills in the STEEL in HSSG (M2) version with dia. 1.0 to 10.0 mm, in increments of 0.5 mm.

Special features:
- The sturdy plastic box protects the tools against dirt and damage.
- The securing of the HSS spiral drills facilitates the selection and withdrawal of the tools.

Contents [Piece]	Version		Item no.	Designation
19	STEEL	1	25203701	SET SPB DIN 338 HSSG N 1-10 STEEL 19TLG

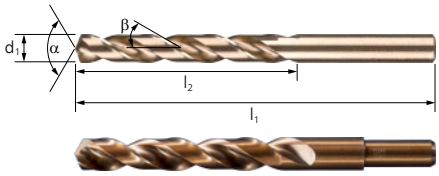
DIN 338 HSSG N STEEL spiral drills, 25-piece set

The set contains 25 HSS spiral drills in the STEEL in HSSG (M2) type for industrial uses.

Contents:
The set consists of 25 HSS spiral drills with dia. 1.0 to 13.0 mm, in increments of 0.5 mm.

Special features:
- The sturdy plastic box protects the tools against dirt and damage.
- The securing of the HSS spiral drills facilitates the selection and withdrawal of the tools.

Contents [Piece]	Version		Item no.	Designation
25	STEEL	1	25203702	SET SPB DIN 338 HSSG N 1-13 STEEL 25TLG



DIN 338 HSSE N INOX spiral drill

High-performance drilling tools in the INOX in HSSE-Co5 (M35) version for industrial uses on tough and hard materials such as alloyed and high-strength steel and stainless steel (INOX). Fully ground, right-hand turning version with cross grinding. With dia. 13 x 35 mm stepped shank as from a drill dia. of 13.5 mm.

Special features:
- Very good temperature resistance due to Co content as well as robust tip profile.
- Very long tool life and easy centring.
- Good chip removal and high concentricity.

d_1 [mm]	l_2 [mm]	l_1 [mm]	α [°]	Spiral angle β [°]	Version		Item no.	Designation
1	12	34	135	36	INOX	10	25203548	SPB DIN 338 HSSE N 1,0 INOX
1.1	14	36	135	36	INOX	10	25203729	SPB DIN 338 HSSE N 1,1 INOX
1.2	16	38	135	36	INOX	10	25203730	SPB DIN 338 HSSE N 1,2 INOX
1.3	16	38	135	36	INOX	10	25203731	SPB DIN 338 HSSE N 1,3 INOX
1.4	18	40	135	36	INOX	10	25203732	SPB DIN 338 HSSE N 1,4 INOX
1.5	18	40	135	36	INOX	10	25203549	SPB DIN 338 HSSE N 1,5 INOX
1.6	20	43	135	36	INOX	10	25203550	SPB DIN 338 HSSE N 1,6 INOX
1.7	20	43	135	36	INOX	10	25203733	SPB DIN 338 HSSE N 1,7 INOX
1.8	22	46	135	36	INOX	10	25203734	SPB DIN 338 HSSE N 1,8 INOX
1.9	22	46	135	36	INOX	10	25203735	SPB DIN 338 HSSE N 1,9 INOX
2	24	49	135	36	INOX	10	25203551	SPB DIN 338 HSSE N 2,0 INOX
2.1	24	49	135	36	INOX	10	25203736	SPB DIN 338 HSSE N 2,1 INOX
2.2	27	53	135	36	INOX	10	25203737	SPB DIN 338 HSSE N 2,2 INOX
2.3	27	53	135	36	INOX	10	25203738	SPB DIN 338 HSSE N 2,3 INOX
2.4	30	57	135	36	INOX	10	25203739	SPB DIN 338 HSSE N 2,4 INOX
2.5	30	57	135	36	INOX	10	25203552	SPB DIN 338 HSSE N 2,5 INOX
2.6	30	57	135	36	INOX	10	25203740	SPB DIN 338 HSSE N 2,6 INOX
2.7	33	53	135	36	INOX	10	25203741	SPB DIN 338 HSSE N 2,7 INOX
2.8	33	61	135	36	INOX	10	25203742	SPB DIN 338 HSSE N 2,8 INOX
2.9	33	61	135	36	INOX	10	25203743	SPB DIN 338 HSSE N 2,9 INOX
3	33	61	135	36	INOX	10	25203553	SPB DIN 338 HSSE N 3,0 INOX
3.1	36	65	135	36	INOX	10	25203554	SPB DIN 338 HSSE N 3,1 INOX
3.2	36	65	135	36	INOX	10	25203744	SPB DIN 338 HSSE N 3,2 INOX
3.3	36	65	135	36	INOX	10	25203555	SPB DIN 338 HSSE N 3,3 INOX
3.4	39	70	135	36	INOX	10	25203556	SPB DIN 338 HSSE N 3,4 INOX
3.5	39	70	135	36	INOX	10	25203557	SPB DIN 338 HSSE N 3,5 INOX
3.6	39	70	135	36	INOX	10	25203558	SPB DIN 338 HSSE N 3,6 INOX

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d_1 [mm]	l_2 [mm]	l_1 [mm]	α [°]	Spiral angle β [°]	Version		Item no.	Designation
3.7	39	70	135	36	INOX	10	25203745	SPB DIN 338 HSSE N 3,7 INOX
3.8	43	75	135	36	INOX	10	25203746	SPB DIN 338 HSSE N 3,8 INOX
3.9	43	75	135	36	INOX	10	25203747	SPB DIN 338 HSSE N 3,9 INOX
4	43	75	135	36	INOX	10	25203559	SPB DIN 338 HSSE N 4,0 INOX
4.1	43	75	135	36	INOX	10	25203560	SPB DIN 338 HSSE N 4,1 INOX
4.2	43	75	135	36	INOX	10	25203561	SPB DIN 338 HSSE N 4,2 INOX
4.3	47	80	135	36	INOX	10	25203748	SPB DIN 338 HSSE N 4,3 INOX
4.4	47	80	135	36	INOX	10	25203562	SPB DIN 338 HSSE N 4,4 INOX
4.5	47	80	135	36	INOX	10	25203563	SPB DIN 338 HSSE N 4,5 INOX
4.6	47	80	135	36	INOX	10	25203749	SPB DIN 338 HSSE N 4,6 INOX
4.7	47	86	135	36	INOX	10	25203750	SPB DIN 338 HSSE N 4,7 INOX
4.8	53	86	135	36	INOX	10	25203751	SPB DIN 338 HSSE N 4,8 INOX
4.9	53	86	135	36	INOX	10	25203752	SPB DIN 338 HSSE N 4,9 INOX
5	52	86	135	36	INOX	10	25203564	SPB DIN 338 HSSE N 5,0 INOX
5.1	52	86	135	36	INOX	10	25203565	SPB DIN 338 HSSE N 5,1 INOX
5.2	52	86	135	36	INOX	10	25203566	SPB DIN 338 HSSE N 5,2 INOX
5.3	52	86	135	36	INOX	10	25203567	SPB DIN 338 HSSE N 5,3 INOX
5.4	57	93	135	36	INOX	10	25203753	SPB DIN 338 HSSE N 5,4 INOX
5.5	57	93	135	36	INOX	10	25203568	SPB DIN 338 HSSE N 5,5 INOX
5.6	57	93	135	36	INOX	10	25203754	SPB DIN338 HSSE N 5,6 INOX
5.7	57	93	135	36	INOX	10	25203755	SPB DIN 338 HSSE N 5,7 INOX
5.8	57	93	135	36	INOX	10	25203756	SPB DIN 338 HSSE N 5,8 INOX
5.9	57	93	135	36	INOX	10	25203757	SPB DIN 338 HSSE N 5,9 INOX
6	57	93	135	36	INOX	10	25203569	SPB DIN 338 HSSE N 6,0 INOX
6.1	63	101	135	36	INOX	10	25203758	SPB DIN 338 HSSE N 6,1 INOX
6.2	63	101	135	36	INOX	10	25203759	SPB DIN 338 HSSE N 6,2 INOX
6.3	63	101	135	36	INOX	10	25203760	SPB DIN 338 HSSE N 6,3 INOX
6.4	63	101	135	36	INOX	10	25203761	SPB DIN 338 HSSE N 6,4 INOX
6.5	63	101	135	36	INOX	10	25203570	SPB DIN 338 HSSE N 6,5 INOX
6.6	63	101	135	36	INOX	10	25203762	SPB DIN 338 HSSE N 6,6 INOX
6.7	63	101	135	36	INOX	10	25203763	SPB DIN 338 HSSE N 6,7 INOX
6.8	69	109	135	36	INOX	10	25203571	SPB DIN 338 HSSE N 6,8 INOX
6.9	69	109	135	36	INOX	10	25203764	SPB DIN 338 HSSE N 6,9 INOX
7	69	109	135	36	INOX	10	25203572	SPB DIN 338 HSSE N 7,0 INOX
7.1	69	109	135	36	INOX	10	25203765	SPB DIN 338 HSSE N 7,1 INOX
7.2	69	109	135	36	INOX	10	25203766	SPB DIN 338 HSSE N 7,2 INOX
7.3	69	109	135	36	INOX	10	25203767	SPB DIN 338 HSSE N 7,3 INOX
7.4	69	109	135	36	INOX	10	25203768	SPB DIN 338 HSSE N 7,4 INOX
7.5	69	109	135	36	INOX	10	25203573	SPB DIN 338 HSSE N 7,5 INOX
7.6	75	117	135	36	INOX	10	25203769	SPB DIN 338 HSSE N 7,6 INOX
7.7	75	117	135	36	INOX	10	25203770	SPB DIN 338 HSSE N 7,7 INOX
7.8	75	117	135	36	INOX	10	25203771	SPB DIN 338 HSSE N 7,8 INOX
7.9	75	117	135	36	INOX	10	25203772	SPB DIN 338 HSSE N 7,9 INOX
8	75	117	135	36	INOX	10	25203574	SPB DIN 338 HSSE N 8,0 INOX
8.1	75	117	135	36	INOX	10	25203773	SPB DIN 338 HSSE N 8,1 INOX
8.2	75	117	135	36	INOX	10	25203774	SPB DIN 338 HSSE N 8,2 INOX
8.3	75	117	135	36	INOX	10	25203775	SPB DIN 338 HSSE N 8,3 INOX
8.4	75	117	135	36	INOX	10	25203776	SPB DIN 338 HSSE N 8,4 INOX
8.5	75	117	135	36	INOX	10	25203575	SPB DIN 338 HSSE N 8,5 INOX
8.6	81	125	135	36	INOX	10	25203777	SPB DIN 338 HSSE N 8,6 INOX
8.7	81	125	135	36	INOX	10	25203778	SPB DIN 338 HSSE N 8,7 INOX
8.8	81	125	135	36	INOX	10	25203779	SPB DIN 338 HSSE N 8,8 INOX
8.9	81	125	135	36	INOX	10	25203780	SPB DIN 338 HSSE N 8,9 INOX
9	75	125	135	36	INOX	10	25203576	SPB DIN 338 HSSE N 9,0 INOX

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d_1 [mm]	l_2 [mm]	l_1 [mm]	α [°]	Spiral angle β [°]	Version		Item no.	Designation
9.1	81	125	135	36	INOX	10	25203781	SPB DIN 338 HSSE N 9,1 INOX
9.2	81	125	135	36	INOX	10	25203782	SPB DIN 338 HSSE N 9,2 INOX
9.3	81	125	135	36	INOX	10	25203783	SPB DIN 338 HSSE N 9,3 INOX
9.4	81	125	135	36	INOX	10	25203784	SPB DIN 338 HSSE N 9,4 INOX
9.5	81	125	135	36	INOX	10	25203577	SPB DIN 338 HSSE N 9,5 INOX
9.6	87	133	135	36	INOX	10	25203785	SPB DIN 338 HSSE N 9,6 INOX
9.7	87	133	135	36	INOX	10	25203786	SPB DIN 338 HSSE N 9,7 INOX
9.8	87	133	135	36	INOX	10	25203787	SPB DIN 338 HSSE N 9,8 INOX
9.9	87	133	135	36	INOX	10	25203788	SPB DIN 338 HSSE N 9,9 INOX
10	87	133	135	36	INOX	10	25203578	SPB DIN 338 HSSE N 10,0 INOX
10.1	87	133	135	36	INOX	5	25203789	SPB DIN 338 HSSE N 10,1 INOX
10.2	87	133	135	36	INOX	5	25203579	SPB DIN 338 HSSE N 10,2 INOX
10.3	87	133	135	36	INOX	5	25203790	SPB DIN 338 HSSE N 10,3 INOX
10.4	87	133	135	36	INOX	5	25203791	SPB DIN 338 HSSE N 10,4 INOX
10.5	87	133	135	36	INOX	5	25203580	SPB DIN 338 HSSE N 10,5 INOX
10.6	87	133	135	36	INOX	5	25203792	SPB DIN 338 HSSE N 10,6 INOX
10.7	94	142	135	36	INOX	5	25203793	SPB DIN 338 HSSE N 10,7 INOX
10.8	94	142	135	36	INOX	5	25203794	SPB DIN 338 HSSE N 10,8 INOX
10.9	94	142	135	36	INOX	5	25203795	SPB DIN 338 HSSE N 10,9 INOX
11	94	142	135	36	INOX	5	25203581	SPB DIN 338 HSSE N 11,0 INOX
11.1	94	142	135	36	INOX	5	25203796	SPB DIN 338 HSSE N 11,1 INOX
11.2	94	142	135	36	INOX	5	25203797	SPB DIN 338 HSSE N 11,2 INOX
11.3	94	142	135	36	INOX	5	25203798	SPB DIN 338 HSSE N 11,3 INOX
11.4	94	142	135	36	INOX	5	25203799	SPB DIN 338 HSSE N 11,4 INOX
11.5	94	142	135	36	INOX	5	25203582	SPB DIN 338 HSSE N 11,5 INOX
11.6	94	142	135	36	INOX	5	25203800	SPB DIN 338 HSSE N 11,6 INOX
11.7	94	142	135	36	INOX	5	25203801	SPB DIN 338 HSSE N 11,7 INOX
11.8	94	142	135	36	INOX	5	25203802	SPB DIN 338 HSSE N 11,8 INOX
11.9	101	151	135	36	INOX	5	25203803	SPB DIN 338 HSSE N 11,9 INOX
12	101	151	135	36	INOX	5	25203583	SPB DIN 338 HSSE N 12,0 INOX
12.1	101	151	135	36	INOX	5	25203804	SPB DIN 338 HSSE N 12,1 INOX
12.2	101	151	135	36	INOX	5	25203805	SPB DIN 338 HSSE N 12,2 INOX
12.3	101	151	135	36	INOX	5	25203806	SPB DIN 338 HSSE N 12,3 INOX
12.4	101	151	135	36	INOX	5	25203807	SPB DIN 338 HSSE N 12,4 INOX
12.5	101	151	135	36	INOX	5	25203584	SPB DIN 338 HSSE N 12,5 INOX
12.6	101	151	135	36	INOX	5	25203808	SPB DIN 338 HSSE N 12,6 INOX
12.7	101	151	135	36	INOX	5	25203809	SPB DIN 338 HSSE N 12,7 INOX
12.8	101	151	135	36	INOX	5	25203810	SPB DIN 338 HSSE N 12,8 INOX
12.9	101	151	135	36	INOX	5	25203811	SPB DIN 338 HSSE N 12,9 INOX
13	101	151	135	36	INOX	5	25203585	SPB DIN 338 HSSE N 13,0 INOX
13.5	108	160	135	36	INOX	1	25203812	SPB DIN 338 HSSE N 13,5 INOX
14	108	160	135	36	INOX	1	25203813	SPB DIN 338 HSSE N 14,0 INOX
14.5	114	169	135	36	INOX	1	25203814	SPB DIN 338 HSSE N 14,5 INOX
15	114	169	135	36	INOX	1	25203815	SPB DIN 338 HSSE N 15,0 INOX
15.5	120	178	135	36	INOX	1	25203816	SPB DIN 338 HSSE N 15,5 INOX
16	120	178	135	36	INOX	1	25203817	SPB DIN 338 HSSE N 16,0 INOX

DIN 338 HSSE N INOX spiral drills, 19-piece set

The set contains 19 HSS spiral drills in the INOX in HSSE-Co5 (M35) type for industrial uses.

Contents:
The set consists of 19 HSS spiral drills with dia. 1.0 to 10.0 mm, in increments of 0.5 mm.

Special features:
- The sturdy plastic box protects the tools against dirt and damage.
- The securing of the HSS spiral drills facilitates the selection and withdrawal of the tools.

Contents [Piece]	Version		Item no.	Designation
19	INOX	1	25203703	SET SPB DIN 338 HSSE N 1-10 INOX 19TLG

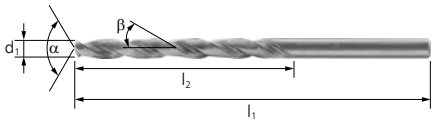
DIN 338 HSSE N INOX spiral drills, 25-piece set

The set contains 25 HSS spiral drills in the INOX in HSSE-Co5 (M35) type for industrial uses.

Contents:
The set consists of 25 HSS spiral drills with dia. 1.0 to 13.0 mm, in increments of 0.5 mm.

Special features:
- The sturdy plastic box protects the tools against dirt and damage.
- The securing of the HSS spiral drills facilitates the selection and withdrawal of the tools.

Contents [Piece]	Version		Item no.	Designation
25	INOX	1	25203704	SET SPB DIN 338 HSSE N 1-13 INOX 25TLG



Spiral drill DIN 340 HSSG N STEEL

Long spiral drill according to DIN 340 with cylindrical shank for deep drilling in the STEEL in HSSG (M2) version for general industrial use on steel, aluminium, brass, bronze, cast material and plastics. Fully ground, right-hand turning version with cross grinding.

Special features:
- Long tool life and easy centring.
- Good chip removal and high concentricity.

d_1 [mm]	l_2 [mm]	l_1 [mm]	α [°]	Spiral angle β [°]	Version		Item no.	Designation
2	56	85	118	25	STEEL	10	25203820	SPB DIN 340 HSSG N 2.0 STEEL
2.5	62	95	118	25	STEEL	10	25203821	SPB DIN 340 HSSG N 2.5 STEEL
3	66	100	118	26	STEEL	10	25203822	SPB DIN 340 HSSG N 3.0 STEEL
3.1	69	106	118	26	STEEL	10	25203823	SPB DIN 340 HSSG N 3.1 STEEL
3.3	69	106	118	26	STEEL	10	25203824	SPB DIN 340 HSSG N 3.3 STEEL
3.4	73	112	118	27	STEEL	10	25203825	SPB DIN 340 HSSG N 3.4 STEEL
3.5	73	112	118	27	STEEL	10	25203826	SPB DIN 340 HSSG N 3.5 STEEL
3.6	73	112	118	27	STEEL	10	25203827	SPB DIN 340 HSSG N 3.6 STEEL
4	78	119	118	27	STEEL	10	25203828	SPB DIN 340 HSSG N 4.0 STEEL
4.1	78	119	118	27	STEEL	10	25203829	SPB DIN 340 HSSG N 4.1 STEEL

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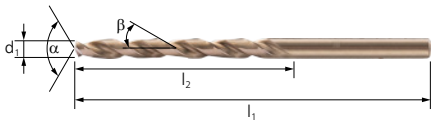
d_1 [mm]	l_2 [mm]	l_1 [mm]	α [°]	Spiral angle β [°]	Version		Item no.	Designation
4.2	78	119	118	27	STEEL	10	25203830	SPB DIN 340 HSSG N 4.2 STEEL
4.4	82	126	118	27	STEEL	10	25203831	SPB DIN 340 HSSG N 4.4 STEEL
4.5	82	126	118	27	STEEL	10	25203832	SPB DIN 340 HSSG N 4.5 STEEL
5	87	132	118	28	STEEL	10	25203833	SPB DIN 340 HSSG N 5.0 STEEL
5.1	87	132	118	28	STEEL	10	25203834	SPB DIN 340 HSSG N 5.1 STEEL
5.2	87	132	118	28	STEEL	10	25203835	SPB DIN 340 HSSG N 5.2 STEEL
5.3	87	132	118	28	STEEL	10	25203836	SPB DIN 340 HSSG N 5.3 STEEL
5.5	91	139	118	28	STEEL	10	25203837	SPB DIN 340 HSSG N 5.5 STEEL
6	91	139	118	28	STEEL	10	25203838	SPB DIN 340 HSSG N 6.0 STEEL
6.5	97	148	118	28	STEEL	10	25203839	SPB DIN 340 HSSG N 6.5 STEEL
6.8	102	156	118	28	STEEL	10	25203840	SPB DIN 340 HSSG N 6.8 STEEL
7	102	156	118	28	STEEL	10	25203841	SPB DIN 340 HSSG N 7.0 STEEL
7.5	102	156	118	28	STEEL	10	25203842	SPB DIN 340 HSSG N 7.5 STEEL
8	109	165	118	29	STEEL	10	25203843	SPB DIN 340 HSSG N 8.0 STEEL
8.5	109	165	118	29	STEEL	10	25203844	SPB DIN 340 HSSG N 8.5 STEEL
9	115	175	118	29	STEEL	10	25203845	SPB DIN 340 HSSG N 9.0 STEEL
9.5	115	175	118	30	STEEL	10	25203846	SPB DIN 340 HSSG N 9.5 STEEL
10	121	184	118	30	STEEL	10	25203847	SPB DIN 340 HSSG N 10.0 STEEL
10.2	121	184	118	30	STEEL	5	25203848	SPB DIN 340 HSSG N 10.2 STEEL
10.5	121	194	118	30	STEEL	5	25203849	SPB DIN 340 HSSG N 10.5 STEEL
11	128	195	118	30	STEEL	5	25203850	SPB DIN 340 HSSG N 11.0 STEEL
11.5	128	205	118	30	STEEL	5	25203851	SPB DIN 340 HSSG N 11.5 STEEL
12	134	205	118	30	STEEL	5	25203852	SPB DIN 340 HSSG N 12.0 STEEL
12.5	134	205	118	30	STEEL	5	25203853	SPB DIN 340 HSSG N 12.5 STEEL
13	134	205	118	30	STEEL	5	25203854	SPB DIN 340 HSSG N 13.0 STEEL



Spiral drill DIN 340 HSSE N INOX

Long spiral drill according to DIN 340 with cylindrical shank for deep drilling in the INOX in HSSE-Co5 (M35) version for industrial uses on tough and hard materials such as alloyed and high-strength steel and stainless steel (INOX). Fully ground, right-hand turning version with cross grinding.

Special features:
- Very good temperature resistance due to Co content as well as robust tip profile.
- Very long tool life and easy centring.
- Good chip removal and high concentricity.

d_1 [mm]	l_2 [mm]	l_1 [mm]	α [°]	Spiral angle β [°]	Version		Item no.	Designation
2	56	85	135	36	INOX	10	25203855	SPB DIN 340 HSSE N 2.0 INOX
2.5	62	95	135	36	INOX	10	25203856	SPB DIN 340 HSSE N 2.5 INOX
3	66	100	135	36	INOX	10	25203857	SPB DIN 340 HSSE N 3.0 INOX
3.1	69	106	135	36	INOX	10	25203858	SPB DIN 340 HSSE N 3.1 INOX
3.3	69	106	135	36	INOX	10	25203859	SPB DIN 340 HSSE N 3.3 INOX
3.4	73	112	135	36	INOX	10	25203860	SPB DIN 340 HSSE N 3.4 INOX
3.5	73	112	135	36	INOX	10	25203861	SPB DIN 340 HSSE N 3.5 INOX
3.6	73	112	135	36	INOX	10	25203862	SPB DIN 340 HSSE N 3.6 INOX
4	78	119	135	36	INOX	10	25203863	SPB DIN 340 HSSE N 4.0 INOX
4.1	78	119	135	36	INOX	10	25203864	SPB DIN 340 HSSE N 4.1 INOX
4.2	78	119	135	36	INOX	10	25203865	SPB DIN 340 HSSE N 4.2 INOX
4.4	82	126	135	36	INOX	10	25203866	SPB DIN 340 HSSE N 4.4 INOX
4.5	82	126	135	36	INOX	10	25203867	SPB DIN 340 HSSE N 4.5 INOX
5	87	132	135	36	INOX	10	25203868	SPB DIN 340 HSSE N 5.0 INOX
5.1	87	132	135	36	INOX	10	25203869	SPB DIN 340 HSSE N 5.1 INOX
5.2	87	132	135	36	INOX	10	25203870	SPB DIN 340 HSSE N 5.2 INOX
5.3	87	132	135	36	INOX	10	25203871	SPB DIN 340 HSSE N 5.3 INOX

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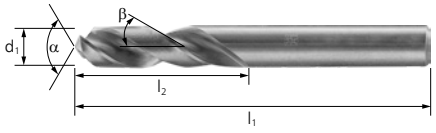
d_1 [mm]	l_2 [mm]	l_1 [mm]	α [°]	Spiral angle β [°]	Version		Item no.	Designation
5.5	91	139	135	36	INOX	10	25203872	SPB DIN 340 HSSE N 5.5 INOX
6	91	139	135	36	INOX	10	25203873	SPB DIN 340 HSSE N 6.0 INOX
6.5	97	148	135	36	INOX	10	25203874	SPB DIN 340 HSSE N 6.5 INOX
6.8	102	156	135	36	INOX	10	25203875	SPB DIN 340 HSSE N 6.8 INOX
7	102	156	135	36	INOX	10	25203876	SPB DIN 340 HSSE N 7.0 INOX
7.5	102	156	135	36	INOX	10	25203877	SPB DIN 340 HSSE N 7.5 INOX
8	109	165	135	36	INOX	10	25203878	SPB DIN 340 HSSE N 8.0 INOX
8.5	109	165	135	36	INOX	10	25203879	SPB DIN 340 HSSE N 8.5 INOX
9	115	175	135	36	INOX	10	25203880	SPB DIN 340 HSSE N 9.0 INOX
9.5	115	175	135	36	INOX	10	25203881	SPB DIN 340 HSSE N 9.5 INOX
10	121	184	135	30	INOX	10	25203882	SPB DIN 340 HSSE N 10.0 INOX
10.2	121	184	135	30	INOX	5	25203883	SPB DIN 340 HSSE N 10.2 INOX
10.5	121	194	135	30	INOX	5	25203884	SPB DIN 340 HSSE N 10.5 INOX
11	128	195	135	30	INOX	5	25203885	SPB DIN 340 HSSE N 11.0 INOX
11.5	128	205	135	30	INOX	5	25203886	SPB DIN 340 HSSE N 11.5 INOX
12	134	205	135	30	INOX	5	25203887	SPB DIN 340 HSSE N 12.0 INOX
12.5	134	205	135	30	INOX	5	25203888	SPB DIN 340 HSSE N 12.5 INOX
13	134	205	135	30	INOX	5	25203889	SPB DIN 340 HSSE N 13.0 INOX



Spiral drill DIN 1897 HSSG N STEEL

Extra-short spiral drill according to DIN 1897 in the STEEL in HSSG (M2) version for general industrial use on steel, aluminium, brass, bronze, cast material and plastics. Fully ground, right-hand turning version with cross grinding.

Special features:
- Long tool life and easy centring.
- Good chip removal and high concentricity.

d_1 [mm]	l_2 [mm]	l_1 [mm]	α [°]	Spiral angle β [°]	Version		Item no.	Designation
1.5	9	31	118	24	STEEL	10	25203891	SPB DIN 1897 HSSG N 1.5 STEEL
1.6	10	34	118	24	STEEL	10	25203892	SPB DIN 1897 HSSG N 1.6 STEEL
2	12	38	118	25	STEEL	10	25203893	SPB DIN 1897 HSSG N 2.0 STEEL
2.5	14	43	118	25	STEEL	10	25203894	SPB DIN 1897 HSSG N 2.5 STEEL
3	16	46	118	26	STEEL	10	25203895	SPB DIN 1897 HSSG N 3.0 STEEL
3.1	18	49	118	26	STEEL	10	25203896	SPB DIN 1897 HSSG N 3.1 STEEL
3.3	18	49	118	26	STEEL	10	25203897	SPB DIN 1897 HSSG N 3.3 STEEL
3.4	20	52	118	27	STEEL	10	25203898	SPB DIN 1897 HSSG N 3.4 STEEL
3.5	20	52	118	27	STEEL	10	25203899	SPB DIN 1897 HSSG N 3.5 STEEL
3.6	20	52	118	27	STEEL	10	25203900	SPB DIN 1897 HSSG N 3.6 STEEL
4	22	55	118	27	STEEL	10	25203901	SPB DIN 1897 HSSG N 4.0 STEEL
4.1	22	55	118	27	STEEL	10	25203902	SPB DIN 1897 HSSG N 4.1 STEEL
4.2	22	55	118	27	STEEL	10	25203903	SPB DIN 1897 HSSG N 4.2 STEEL
4.4	24	58	118	27	STEEL	10	25203904	SPB DIN 1897 HSSG N 4.4 STEEL
4.5	24	58	118	27	STEEL	10	25203905	SPB DIN 1897 HSSG N 4.5 STEEL
5	26	62	118	28	STEEL	10	25203906	SPB DIN 1897 HSSG N 5.0 STEEL
5.1	26	62	118	28	STEEL	10	25203907	SPB DIN 1897 HSSG N 5.1 STEEL
5.2	26	62	118	28	STEEL	10	25203908	SPB DIN 1897 HSSG N 5.2 STEEL
5.3	26	62	118	28	STEEL	10	25203909	SPB DIN 1897 HSSG N 5.3 STEEL
5.5	28	66	118	28	STEEL	10	25203910	SPB DIN 1897 HSSG N 5.5 STEEL
6	28	66	118	28	STEEL	10	25203911	SPB DIN 1897 HSSG N 6.0 STEEL
6.5	31	70	118	28	STEEL	10	25203912	SPB DIN 1897 HSSG N 6.5 STEEL
6.8	34	74	118	28	STEEL	10	25203913	SPB DIN 1897 HSSG N 6.8 STEEL
7	34	74	118	28	STEEL	10	25203914	SPB DIN 1897 HSSG N 7.0 STEEL
7.5	34	74	118	28	STEEL	10	25203915	SPB DIN 1897 HSSG N 7.5 STEEL

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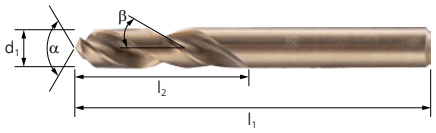
d_1 [mm]	l_2 [mm]	l_1 [mm]	α [°]	Spiral angle β [°]	Version		Item no.	Designation
8	37	79	118	29	STEEL	10	25203916	SPB DIN 1897 HSSG N 8.0 STEEL
8.5	37	79	118	29	STEEL	10	25203917	SPB DIN 1897 HSSG N 8.5 STEEL
9	40	84	118	29	STEEL	10	25203918	SPB DIN 1897 HSSG N 9.0 STEEL
9.5	40	84	118	30	STEEL	10	25203919	SPB DIN 1897 HSSG N 9.5 STEEL
10	43	89	118	30	STEEL	10	25203920	SPB DIN 1897 HSSG N 10.0 STEEL
10.2	43	89	118	30	STEEL	5	25203921	SPB DIN 1897 HSSG N 10.2 STEEL
10.5	43	89	118	30	STEEL	5	25203922	SPB DIN 1897 HSSG N 10.5 STEEL
11	47	95	118	30	STEEL	5	25203923	SPB DIN 1897 HSSG N 11.0 STEEL
11.5	47	95	118	30	STEEL	5	25203924	SPB DIN 1897 HSSG N 11.5 STEEL
12	51	102	118	30	STEEL	5	25203925	SPB DIN 1897 HSSG N 12.0 STEEL
12.5	51	102	118	30	STEEL	5	25203926	SPB DIN 1897 HSSG N 12.5 STEEL
13	51	102	118	30	STEEL	5	25203927	SPB DIN 1897 HSSG N 13.0 STEEL



Spiral drill DIN 1897 HSSE N INOX

Extra-short spiral drill according to DIN 1897 in the INOX in HSSE-Co5 (M35) version preferably for machine and robot applications on tough and hard materials such as alloyed and high-strength steel and stainless steel (INOX). Fully ground, right-hand turning version with cross grinding.

Special features:
- Very good temperature resistance due to Co content as well as robust tip profile.
- Very long tool life and easy centring.
- Good chip removal and high concentricity.

d_1 [mm]	l_2 [mm]	l_1 [mm]	α [°]	Spiral angle β [°]	Version		Item no.	Designation
1.5	9	31	135	24	INOX	10	25203929	SPB DIN 1897 HSSE N 1.5 INOX
1.6	10	34	135	24	INOX	10	25203930	SPB DIN 1897 HSSE N 1.6 INOX
2	12	38	135	36	INOX	10	25203931	SPB DIN 1897 HSSE N 2.0 INOX
2.5	14	43	135	36	INOX	10	25203932	SPB DIN 1897 HSSE N 2.5 INOX
3	16	46	135	36	INOX	10	25203933	SPB DIN 1897 HSSE N 3.0 INOX
3.1	18	49	135	36	INOX	10	25203934	SPB DIN 1897 HSSE N 3.1 INOX
3.3	18	49	135	36	INOX	10	25203935	SPB DIN 1897 HSSE N 3.3 INOX
3.4	20	52	135	36	INOX	10	25203936	SPB DIN 1897 HSSE N 3.4 INOX
3.5	20	52	135	36	INOX	10	25203937	SPB DIN 1897 HSSE N 3.5 INOX
3.6	20	52	135	36	INOX	10	25203938	SPB DIN 1897 HSSE N 3.6 INOX
4	22	55	135	36	INOX	10	25203939	SPB DIN 1897 HSSE N 4.0 INOX
4.1	22	55	135	36	INOX	10	25203940	SPB DIN 1897 HSSE N 4.1 INOX
4.2	22	55	135	36	INOX	10	25203941	SPB DIN 1897 HSSE N 4.2 INOX
4.4	24	58	135	36	INOX	10	25203942	SPB DIN 1897 HSSE N 4.4 INOX
4.5	24	58	135	36	INOX	10	25203943	SPB DIN 1897 HSSE N 4.5 INOX
5	26	62	135	36	INOX	10	25203944	SPB DIN 1897 HSSE N 5.0 INOX
5.1	26	62	135	36	INOX	10	25203945	SPB DIN 1897 HSSE N 5.1 INOX
5.2	26	62	135	36	INOX	10	25203946	SPB DIN 1897 HSSE N 5.2 INOX
5.3	26	62	135	36	INOX	10	25203947	SPB DIN 1897 HSSE N 5.3 INOX
5.5	28	66	135	36	INOX	10	25203948	SPB DIN 1897 HSSE N 5.5 INOX
6	28	66	135	36	INOX	10	25203949	SPB DIN 1897 HSSE N 6.0 INOX
6.5	31	70	135	36	INOX	10	25203950	SPB DIN 1897 HSSE N 6.5 INOX
6.8	34	74	135	36	INOX	10	25203951	SPB DIN 1897 HSSE N 6.8 INOX
7	34	74	135	36	INOX	10	25203952	SPB DIN 1897 HSSE N 7.0 INOX
7.5	34	74	135	36	INOX	10	25203953	SPB DIN 1897 HSSE N 7.5 INOX
8	37	79	135	36	INOX	10	25203954	SPB DIN 1897 HSSE N 8.0 INOX
8.5	37	79	135	36	INOX	10	25203955	SPB DIN 1897 HSSE N 8.5 INOX
9	40	84	135	36	INOX	10	25203956	SPB DIN 1897 HSSE N 9.0 INOX
9.5	40	84	135	36	INOX	10	25203957	SPB DIN 1897 HSSE N 9.5 INOX
10	43	89	135	30	INOX	10	25203958	SPB DIN 1897 HSSE N 10.0 INOX

Continued on next page

d_1 [mm]	l_2 [mm]	l_1 [mm]	α [°]	Spiral angle β [°]	Version		Item no.	Designation
10.2	43	89	135	30	INOX	5	25203959	SPB DIN 1897 HSSE N 10.2 INOX
10.5	43	89	135	30	INOX	5	25203960	SPB DIN 1897 HSSE N 10.5 INOX
11	47	95	135	30	INOX	5	25203961	SPB DIN 1897 HSSE N 11.0 INOX
11.5	47	95	135	30	INOX	5	25203962	SPB DIN 1897 HSSE N 11.5 INOX
12	51	102	135	30	INOX	5	25203963	SPB DIN 1897 HSSE N 12.0 INOX
12.5	51	102	135	30	INOX	5	25203964	SPB DIN 1897 HSSE N 12.5 INOX
13	51	102	135	30	INOX	5	25203965	SPB DIN 1897 HSSE N 13.0 INOX

HSS step drills

Recommended rotational speed range [RPM]

To determine the recommended cutting speed range [m/min], please proceed as follows:
① Select the material group to be machined.
② Select the type.
③ Establish the cutting speed range.

To determine the recommended rotational speed range [RPM], please proceed as follows:
④ Select the required diameter.
⑤ The cutting speed range and the diameter determine the recommended rotational speed range.

① Material group			② Design	③ Cutting speed
Steel, cast steel	Steels up to 700 N/mm²	Construction steels, carbon steels, tool steels, alloyed and non-alloyed steels, case-hardened steels, cast steel, tempering steels	HSS	20–30 m/min
			HICOAT HC-FEP	
	Steels over 700 N/mm²		HICOAT HC-FEP	10–20 m/min
Stainless steel (INOX)	Rust and acid-resistant steels	Austenitic and ferritic stainless steels	HICOAT HC-FEP	10–20 m/min
Non-ferrous metals	Soft non-ferrous metals	Aluminium alloys, brass, copper, zinc	HSS	20–30 m/min
			HICOAT HC-FEP	
	Hard non-ferrous metals	Bronze, titanium/titanium alloys, hard aluminium alloys (high Si content)	HICOAT HC-FEP	
Plastics, other materials	Fibre-reinforced thermoplastics and duroplastics, hard rubber, wood		HSS	10–20 m/min
			HICOAT HC-FEP	

Example:
HSS step drill
STB HSS 04-30/10,
step dia. 4–30 mm.
Steels up to 700 N/mm².
Cutting speed: 20–30 m/min
Rotational speed range: 2.400–200 RPM

⑤ Step dia. [mm]	④ Cutting speeds [m/min]		
	10	20	30
	Rotational speeds [RPM]		
3.5	940	1,620	2,700
4	800	1,600	2,400
5	640	1,280	1,920
6	530	1,060	1,600
7	460	920	1,400
8	400	800	1,200
9	350	700	1,060
10	320	640	960
10.5	310	540	920
11	290	580	880
12	270	540	820
12.5	260	470	770
14	230	460	700
14.5	230	410	670
15	210	420	640
16	200	400	600
16.5	200	440	590
18	180	360	540
18.5	180	360	520
20	160	320	480
20.5	160	300	470
21	150	300	460
22	140	280	420
23.5	140	270	410
24	130	260	400
25.5	130	260	380
26	130	240	370
27	120	240	360
28	110	220	340
30	100	200	300
30.5	110	210	320
32.0	100	210	300
32.5	100	190	300
33	90	180	280
34	90	180	280
36	90	180	280
37	90	180	280
37.5	90	180	260
38.5	90	170	250
39	80	160	240
40.0	80	170	240
40.5	80	170	240

HSS step drills

Very smooth-running and sturdy high-performance tools for burr-free drilling and deburring of materials measuring up to 4 mm thick in just one work step. To ensure reliable torque transmission, all step drills have a three-surface shaft.

Special features:
- The high-quality drill tip ensures effortless centring and drilling, and the tool taper makes it easier to pull back.
- Chips which do not break are neatly removed as with a spiral drill.
- Use with cutting oil/compressed air where possible.

Drilling steps	d_2 [mm]	l_1 [mm]	Version		Item no.	Designation
4.0/5.0/6.0/7.0/8.0/9.0/10.0/11.0/12.0	6	65	HSS	1	25201036	STB HSS 04-12/6
4.0/6.0/8.0/10.0/12.0/14.0/16.0/18.0/20.0	8	75	HSS	1	25201037	STB HSS 04-20/8
4.0/6.0/8.0/10.0/12.0/14.0/16.0/18.0/20.0/22.0/24.0/26.0/28.0/30.0	10	100	HSS	1	25201038	STB HSS 04-30/10
4.0/6.0/9.0/12.0/15.0/18.0/21.0/24.0/27.0/30.0/33.0/36.0/39.0	10	107	HSS	1	25201039	STB HSS 04-39/10
6.0/9.0/12.5/15.2/18.6/20.4/22.5/26.0/28.3/30.5/34.0/37.0	10	100	HSS	1	25201040	STB HSS 06-37/10

HSS step drill, 3-piece set

The set contains three HSS step drills in the versions 4–12 mm (9 steps), 4–20 mm (9 steps), 4–30 mm (14 steps) for industrial uses.

Special features:
- To ensure reliable torque transmission, all step drills have a three-surface shaft.
- The sturdy plastic box protects the tools against dirt and damage.
- The securing of the HSS step drills facilitates the selection and withdrawal of the tools.

Contents [Piece]	Version		Item no.	Designation
3	HSS	1	25201046	SET STB HSS 3TLG

HSSE step drill, version Co5

Very smooth-running and sturdy high-performance tools for burr-free drilling and deburring of materials measuring up to 4 mm thick in just one work step. To ensure reliable torque transmission, all step drills have a three-surface shaft.

Special features:
- Long tool life and temperature-resistant version due to Co content.
- The high-quality drill tip ensures effortless centring and drilling, and the tool taper makes it easier to pull back.
- Use with cutting oil/compressed air where possible.

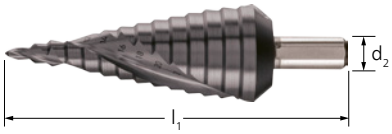
Drilling steps	d_2 [mm]	l_1 [mm]	Version		Item no.	Designation
4.0/5.0/6.0/7.0/8.0/9.0/10.0/11.0/12.0	6	65	HSS	1	25204072	STB HSSE 4-12/6
4.0/6.0/8.0/10.0/12.0/14.0/16.0/18.0/20.0	8	75	HSS	1	25204073	STB HSSE 4-20/8
4.0/6.0/8.0/10.0/12.0/14.0/16.0/18.0/20.0/22.0/24.0/26.0/28.0/30.0	10	100	HSS	1	25204074	STB HSSE 4-30/10
4.0/6.0/9.0/12.0/15.0/18.0/21.0/24.0/27.0/30.0/33.0/36.0/39.0	10	107	HSS	1	25204075	STB HSSE 4-39/10
6.0/9.0/12.5/15.2/18.6/20.4/22.5/26.0/28.3/30.5/34.0/37.0	10	100	HSS	1	25204076	STB HSSE 6-37/10

HSSE step drill, 3-piece set, version Co5

The set includes three HSSE step drills in the versions 4–12 mm (9 steps), 4–20 mm (9 steps), 4–30 mm (14 steps) for industrial uses.

Special features:
- To ensure reliable torque transmission, all step drills have a three-surface shaft.
- The sturdy plastic box protects the tools against dirt and damage.
- The securing of the HSSE step drills facilitates the selection and withdrawal of the tools.

Contents [Piece]	Version		Item no.	Designation
3	HSSE	1	25204077	SET-STB HSSE 3TLG



HSS step drill with HICOAT coating HC-FEP

Very smooth-running and sturdy high-performance tools for burr-free drilling and deburring of materials measuring up to 4 mm thick in just one work step. To ensure reliable torque transmission, all step drills have a three-surface shaft.

Special features:
- Thanks to the HICOAT coating, especially well-suited to use on stainless steel (INOX) and can be used without adding coolant.
- The high-quality drill tip ensures effortless centring and drilling, and the tool taper makes it easier to pull back.
- Significantly higher tool life compared to uncoated step drills.

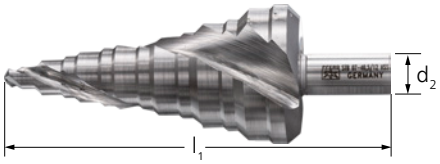
Drilling steps	d_2 [mm]	l_1 [mm]	Version		Item no.	Designation
4.0/5.0/6.0/7.0/8.0/9.0/10.0/11.0/12.0	6	65	HC-FEP	1	25201041	STB HSS 04-12/6 HC-FEP
4.0/6.0/8.0/10.0/12.0/14.0/16.0/18.0/20.0	8	75	HC-FEP	1	25201042	STB HSS 04-20/8 HC-FEP
4.0/6.0/8.0/10.0/12.0/14.0/16.0/18.0/20.0/22.0/24.0/26.0/28.0/30.0	10	100	HC-FEP	1	25201043	STB HSS 04-30/10 HC-FEP
4.0/6.0/9.0/12.0/15.0/18.0/21.0/24.0/27.0/30.0/33.0/36.0/39.0	10	107	HC-FEP	1	25201044	STB HSS 04-39/10 HC-FEP
6.0/9.0/12.5/15.2/18.6/20.4/22.5/26.0/28.3/30.5/34.0/37.0	10	100	HC-FEP	1	25201045	STB HSS 06-37/10 HC-FEP

HSS step drill with HICOAT coating HC-FEP, 3-piece set

The set contains 3 HSS step drills in the versions 4–12 mm (9 steps), 4–20 mm (9 steps), 4–30 mm (14 steps) with a premium HICOAT coating HC-FEP for industrial uses.

Special features:
- To ensure reliable torque transmission, all step drills have a three-surface shaft.
- The sturdy plastic box protects the tools against dirt and damage.
- The securing of the HSS step drills facilitates the selection and withdrawal of the tools.

Contents [Piece]	Version		Item no.	Designation
3	HC-FEP	1	25201047	SET STB HSS HC-FEP 3TLG



HSS step drill for cable glands

High-performance tools for burr-free drilling and deburring of materials measuring up to 4 mm thick. Designed for common diameters of cable glands. To ensure reliable torque transmission, all step drills have a three-surface shaft.

Special features:
- The high-quality drill tip ensures effortless centring and drilling, and the tool taper makes it easier to pull back.
- Chips which do not break are neatly removed as with a spiral drill.
- Use with cutting oil/compressed air where possible.

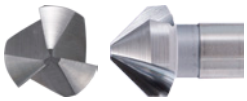
Drilling steps	d_2 [mm]	l_1 [mm]	Version		Item no.	Designation
7/10.5/12.5/14.5/16.5/18.5/20.5/23.5/25.5/30.5/32.5	12	96.5	HSS	1	25201050	STB HSS 7-32.5/12
3.5/6.3/10.5/12.5/15.3/18.7/20.5/22.6/26.0/28.3/29.1/32.0/35.6/37.5/40.037.5/40.0	10	120	HSS	1	25201048	STB HSS 3.5-40/10
7.0/10.5/12.5/14.5/16.5/18.5/20.5/23.5/25.5/30.5/32.5/38.5/40.5	12	110	HSS	1	25201049	STB HSS 7-40.5/12

Countersink tools
General information

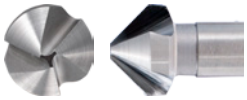
The range of PFERD TOOLS countersinking tools comprises conical countersinks and flat countersinks of a high-quality industrial standard. PFERD TOOLS also offers conical countersinks in the HSS Co5 type or with the high-quality HICOAT coating HC-FEP for working on particularly complex materials.

Types

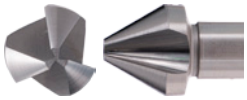
Conical countersink



HSS countersink 90°
- Particularly well suited to producing countersinks for 90° screws.



HSS countersink 90° UGT
- Particularly well suited to producing exact countersinks.
- Smooth running.
- Low countersinking force and a good surface quality.
- Specially developed geometry with wide flutes for optimal chip removal and heat dissipation.
- Particularly well suited to robotic and stationary applications.



HSS countersink 60°
- Particularly well suited to countersinking and deburring.

Flat countersink

Quality grade fine (F)
- Flat countersinks with the quality grade “fine” are suitable for producing flat countersinks at through holes or blind holes in the tolerance range “fine” with high mounting accuracy.

Quality grade medium (M)
- Flat countersinks with the quality grade “medium” are suitable for producing flat countersinks at through holes or blind holes in the tolerance range “medium” with extended mounting accuracy.

For tapping hole (GKL)
- Flat countersinks for the tapping hole are suitable for producing flat countersinks at core holes for female threads.

Recommended rotational speed range [RPM]

To determine the recommended cutting speed range [m/min], please proceed as follows:
① Select the material group to be machined.
② Select the type.
③ Establish the cutting speed range.

To determine the recommended rotational speed range [RPM], please proceed as follows:
④ Select the required diameter.
⑤ The cutting speed range and the diameter determine the recommended rotational speed range.

① Material group			② Design	③ Cutting speed
Steel, cast steel	Non-alloyed construction steels up to 700 N/mm²	Construction steels, carbon steels, tool steels, non-alloyed steels, case-hardened steels, cast steel, tempering steels	HSS	15–20 m/min
			HSSE Co5	
			HICOAT HC-FEP	
	Alloyed construction steels over 700 N/mm²	Tool steels, tempering steels, alloyed steels, cast steel	HSSE Co5	10–15 m/min
			HICOAT HC-FEP	
Stainless steel (INOX)	Rust and acid-resistant steels	Austenitic and ferritic stainless steels	HSS	10–15 m/min
			HSSE Co5	
			HICOAT HC-FEP	
Non-ferrous metals	Soft non-ferrous metals	Aluminium alloys, brass, copper, zinc	HSS	15–20 m/min
			HSSE Co5	
			HICOAT HC-FEP	
	Hard non-ferrous metals	Bronze, titanium/titanium alloys, hard aluminium alloys (high Si content)	HSSE Co5	10–20 m/min
			HICOAT HC-FEP	
Cast iron	Grey cast iron, white cast iron	Cast iron with flake graphite EN-GJL (GG), with nodular graphite/nodular cast iron EN-GJS (GGG), white annealed cast iron EN-GJMW (GTW), black annealed cast iron EN-GJMB (GTS)	HSS	10 m/min
			HSSE Co5	
			HICOAT HC-FEP	
Plastics, other materials	Fibre-reinforced thermoplastics and duroplastics, hard rubber, wood		HSS	10–15 m/min
			HSSE Co5	
			HICOAT HC-FEP	

Example:
Conical countersink
KES HSS DIN 335 C90°,
countersink dia. 28.0 mm.
Steels up to 700 N/mm².
Cutting speed: 15–20 m/min
Rotational speed range: 170–220 RPM

④ Countersink dia. [mm]	⑤ Cutting speeds [m/min]		
	10	15	20
	Rotational speeds [RPM]		
4.30	800	1,200	1,600
5.00	640	960	1,280
5.30	640	960	1,280
6.00	530	800	1,060
6.30	530	800	1,060
7.00	460	680	920
8.00	400	600	800
8.30	400	600	800
10.00	320	470	640
10.40	320	470	640
11.50	280	420	560
12.40	260	390	520
12.50	260	390	520
15.00	210	320	420
16.00	190	290	380
16.50	190	290	380
19.00	170	260	340
20.00	150	230	300
20.50	150	230	300
23.00	140	210	280
25.00	130	200	260
28.00	110	170	220
31.00	100	150	200
37.00	90	140	180
40.00	80	120	160

Conical countersink HSS DIN 335 C 90°

High-performance tool with a countersink angle of 90° for countersinking 90° screws for all common materials such as steel, cast steel and non-ferrous metals.

Special features:
- High stock removal rate and optimum chip removal.
- Burr-free results even at low cutting speeds.
- High workpiece surface quality and long tool life.

d_1 [mm]	d_2 [mm]	l_1 [mm]	α [°]	Version		Item no.	Designation
4.3	4	40	90	HSS	1	25202100	KES HSS DIN 335 C90° 4,3
5	4	40	90	HSS	1	25202101	KES HSS DIN 335 C90° 5,0
5.3	4	40	90	HSS	1	*25202102*	KES HSS DIN 335 C90° 5,3
6	5	45	90	HSS	1	25202103	KES HSS DIN 335 C90° 6,0
6.3	5	45	90	HSS	1	25202104	KES HSS DIN 335 C90° 6,3
7	6	50	90	HSS	1	25202105	KES HSS DIN 335 C90° 7,0
8	6	50	90	HSS	1	25202106	KES HSS DIN 335 C90° 8,0
8.3	6	50	90	HSS	1	25202107	KES HSS DIN 335 C90° 8,3
10	6	50	90	HSS	1	25202108	KES HSS DIN 335 C90° 10,0
10.4	6	50	90	HSS	1	25202109	KES HSS DIN 335 C90° 10,4
11.5	8	56	90	HSS	1	25202110	KES HSS DIN 335 C90° 11,5
12.4	8	56	90	HSS	1	25202111	KES HSS DIN 335 C90° 12,4
15	10	60	90	HSS	1	25202112	KES HSS DIN 335 C90° 15,0
16.5	10	60	90	HSS	1	25202113	KES HSS DIN 335 C90° 16,5
19	10	63	90	HSS	1	25202114	KES HSS DIN 335 C90° 19,0
20.5	10	63	90	HSS	1	25202115	KES HSS DIN 335 C90° 20,5
23	10	67	90	HSS	1	*25202116*	KES HSS DIN 335 C90° 23,0

Continued on next page

d_1 [mm]	d_2 [mm]	l_1 [mm]	α [°]	Version		Item no.	Designation
25	10	67	90	HSS	1	25202117	KES HSS DIN 335 C90° 25,0

Version with three-surface shaft

28	12	71	90	HSS	1	*25202118*	KES HSS DIN 335 C90° 28,0
31	12	71	90	HSS	1	25202119	KES HSS DIN 335 C90° 31,0
37	12	90	90	HSS	1	25202120	KES HSS DIN 335 C90° 37,0
40	15	80	90	HSS	1	25202121	KES HSS DIN 335 C90° 40,0

Conical countersink sets HSS DIN 335 C 90°

The sets include high-performance countersink tools with a countersink angle of 90° for countersinking 90° screws for all common materials such as steel, cast steel and non-ferrous metals.

Special features:
- The sturdy plastic box protects the tools against dirt and damage.

Contents [Piece]	Contents tool diameter [mm]	Version		Item no.	Designation
3	6.3 / 10.4 / 16.5	HSS	1	25202152	SET KES HSS DIN 335 C90° 3TLG
5	6.3 / 10.4 / 16.5 / 20.5 / 25.0	HSS	1	25202153	SET KES HSS DIN 335 C90° 5TLG
6	6.3 / 8.3 / 10.4 / 12.4 / 16.5 / 20.5	HSS	1	25202154	SET KES HSS DIN 335 C90° 6TLG

Conical countersink with unequal pitch UGT HSS DIN 335 C 90°

High-performance tool with a countersink angle of 90° for precise countersinking of 90° screws for all common materials such as steel, cast steel and non-ferrous metals.

Special features:
- Optimum chip removal and heat dissipation, smooth running and optimum results due to unequal pitch (UGT).
- Burr-free results even at low cutting speeds.
- Low countersinking force and a good surface quality as well as a long tool life.

d_1 [mm]	d_2 [mm]	l_1 [mm]	α [°]	Version		Item no.	Designation
6.3	5	45	90	HSS UGT	1	*25202168*	UGT HSS DIN 335 C90° 6,3
8.3	6	50	90	HSS UGT	1	*25202169*	UGT HSS DIN 335 C90° 8,3
10.4	6	50	90	HSS UGT	1	*25202170*	UGT HSS DIN 335 C90° 10,4
12.4	8	56	90	HSS UGT	1	*25202171*	UGT HSS DIN 335 C90° 12,4
15	10	60	90	HSS UGT	1	*25202172*	UGT HSS DIN 335 C90° 15,0
16.5	10	60	90	HSS UGT	1	*25202173*	UGT HSS DIN 335 C90° 16,5
19	10	63	90	HSS UGT	1	*25202174*	UGT HSS DIN 335 C90° 19,0
20.5	10	63	90	HSS UGT	1	*25202175*	UGT HSS DIN 335 C90° 20,5
23	10	67	90	HSS UGT	1	*25202176*	UGT HSS DIN 335 C90° 23,0
25	10	67	90	HSS UGT	1	*25202177*	UGT HSS DIN 335 C90° 25,0

Version with three-surface shaft

31	12	71	90	HSS UGT	1	*25202178*	UGT HSS DIN 335 C90° 31,0

Discontinued product

Conical countersink sets with unequal pitch UGT HSS DIN 335 C 90°

The sets include high-performance countersink tools with a countersink angle of 90° for countersinking 90° screws for all common materials such as steel, cast steel and non-ferrous metals.

Special features:
- Optimum chip removal and heat dissipation, smooth running and optimum results due to unequal pitch (UGT).
- The sturdy plastic box protects the tools against dirt and damage.

Contents [Piece]	Contents tool diameter [mm]	Version		Item no.	Designation
3	6.3 / 10.4 / 16.5	HSS UGT	1	*25202190*	SET UGT HSS DIN 335 C90° 3TLG
5	6.3 / 10.4 / 16.5 / 20.5 / 25.0	HSS UGT	1	*25202191*	SET UGT HSS DIN 335 C90° 5TLG
6	6.3 / 8.3 / 10.4 / 12.4 / 16.5 / 20.5	HSS UGT	1	*25202192*	SET UGT HSS DIN 335 C90° 6TLG

Conical countersink HSSE DIN 335 C 90°, type Co5

High-performance tool with a countersink angle of 90° for countersinking 90° screws with temperature-resistant Co content for particularly tough and hard materials.

Special features:
- High stock removal rate and optimum chip removal.
- Burr-free results even at low cutting speeds.
- High workpiece surface quality and long tool life.

d_1 [mm]	d_2 [mm]	l_1 [mm]	α [°]	Version		Item no.	Designation
4.3	4	40	90	HSSE	1	25202122	KES HSSE DIN 335 C90° 4,3
5	4	40	90	HSSE	1	25202123	KES HSSE DIN 335 C90° 5,0
5.3	4	40	90	HSSE	1	*25202124*	KES HSSE DIN 335 C90° 5,3
6	5	45	90	HSSE	1	25202125	KES HSSE DIN 335 C90° 6,0
6.3	5	45	90	HSSE	1	25202126	KES HSSE DIN 335 C90° 6,3
8	6	50	90	HSSE	1	25202127	KES HSSE DIN 335 C90° 8,0
8.3	6	50	90	HSSE	1	25202128	KES HSSE DIN 335 C90° 8,3
10	6	50	90	HSSE	1	25202129	KES HSSE DIN 335 C90° 10,0
10.4	6	50	90	HSSE	1	25202130	KES HSSE DIN 335 C90° 10,4
11.5	8	56	90	HSSE	1	25202131	KES HSSE DIN 335 C90° 11,5
12.4	8	56	90	HSSE	1	25202132	KES HSSE DIN 335 C90° 12,4
15	10	60	90	HSSE	1	25202133	KES HSSE DIN 335 C90° 15,0
16.5	10	60	90	HSSE	1	25202134	KES HSSE DIN 335 C90° 16,5
19	10	63	90	HSSE	1	25202135	KES HSSE DIN 335 C90° 19,0
20.5	10	63	90	HSSE	1	25202136	KES HSSE DIN 335 C90° 20,5
23	10	67	90	HSSE	1	*25202137*	KES HSSE DIN 335 C90° 23,0
25	10	67	90	HSSE	1	25202138	KES HSSE DIN 335 C90° 25,0
Version with three-surface shaft							
28	12	71	90	HSSE	1	*25202139*	KES HSSE DIN 335 C90° 28,0
31	12	71	90	HSSE	1	25202140	KES HSSE DIN 335 C90° 31,0

Discontinued product

Conical countersink sets HSSE DIN 335 C 90°, type Co5

The sets include high-performance countersink tools with a countersink angle of 90° for countersinking 90° screws for particularly tough and hard materials such as alloyed and high-strength steel and stainless steel (INOX).

Special features:
- Long tool life and temperature-resistant version due to Co content.
- The sturdy plastic box protects the tools against dirt and damage.

Contents [Piece]	Contents tool diameter [mm]	Version		Item no.	Designation
3	6.3 / 10.4 / 16.5	HSSE	1	25202155	SET KES HSSE DIN 335 C90° 3TLG
5	6.3 / 10.4 / 16.5 / 20.5 / 25.0	HSSE	1	25202156	SET KES HSSE DIN 335 C90° 5TLG
6	6.3 / 8.3 / 10.4 / 12.4 / 16.5 / 20.5	HSSE	1	25202157	SET KES HSSE DIN 335 C90° 6TLG

Conical countersink with unequal pitch UGT HSSE DIN 335 C 90°, type Co5

High-performance tool with a countersink angle of 90° for countersinking 90° screws with temperature-resistant Co content for particularly tough and hard materials.

Special features:
- Optimum chip removal and heat dissipation, smooth running and optimum results due to unequal pitch (UGT).
- Burr-free results even at low cutting speeds.
- Low countersinking force and a good workpiece surface quality as well as a long tool life.

d_1 [mm]	d_2 [mm]	l_1 [mm]	α [°]	Version		Item no.	Designation
6.3	5	45	90	HSSE UGT	1	25202179	UGT HSSE DIN 335 C90° 6,3
8.3	6	50	90	HSSE UGT	1	25202180	UGT HSSE DIN 335 C90° 8,3
10.4	6	50	90	HSSE UGT	1	25202181	UGT HSSE DIN 335 C90° 10,4
12.4	8	56	90	HSSE UGT	1	25202182	UGT HSSE DIN 335 C90° 12,4
15	10	60	90	HSSE UGT	1	*25202183*	UGT HSSE DIN 335 C90° 15,0
16.5	10	60	90	HSSE UGT	1	25202184	UGT HSSE DIN 335 C90° 16,5
19	10	63	90	HSSE UGT	1	*25202185*	UGT HSSE DIN 335 C90° 19,0
20.5	10	63	90	HSSE UGT	1	25202186	UGT HSSE DIN 335 C90° 20,5
23	10	67	90	HSSE UGT	1	*25202187*	UGT HSSE DIN 335 C90° 23,0
25	10	67	90	HSSE UGT	1	*25202188*	UGT HSSE DIN 335 C90° 25,0
Version with three-surface shaft							
31	12	71	90	HSSE UGT	1	*25202189*	UGT HSSE DIN 335 C90° 31,0

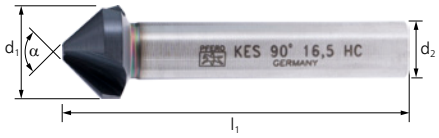
Discontinued product

Conical countersink sets with unequal pitch UGT HSSE DIN 335 C 90°, type Co5

The sets include high-performance countersink tools with a countersink angle of 90° for countersinking 90° screws for particularly tough and hard materials such as alloyed and high-strength steel and stainless steel (INOX).

Special features:
- Long tool life and temperature-resistant version due to Co content.
- Optimum chip removal and heat dissipation, smooth running and optimum results due to unequal pitch (UGT).
- The sturdy plastic box protects the tools against dirt and damage.

Contents [Piece]	Contents tool diameter [mm]	Version		Item no.	Designation
3	6.3 / 10.4 / 16.5	HSSE UGT	1	25202193	SET UGT HSSE DIN 335 C90° 3TLG
5	6.3 / 10.4 / 16.5 / 20.5 / 25.0	HSSE UGT	1	25202194	SET UGT HSSE DIN 335 C90° 5TLG
6	6.3 / 8.3 / 10.4 / 12.4 / 16.5 / 20.5	HSSE UGT	1	25202195	SET UGT HSSE DIN 335 C90° 6TLG



Conical countersink HSS DIN 335 C 90° with HICOAT coating HC-FEP

High-performance tool with a countersink angle of 90° for countersinking 90° screws for particularly tough and hard materials.

Special features:
- High stock removal rate, optimum chip removal, high hardness and wear resistance thanks to HICOAT coating.
- Burr-free results even at low cutting speeds.
- High workpiece surface quality as well as particularly long tool life and high temperature resistance.

d_1 [mm]	d_2 [mm]	l_1 [mm]	α [°]	Version		Item no.	Designation
6.3	5	45	90	HC-FEP	1	25202141	KES HSS DIN 335 C90° HC-FEP 6,3
8.3	6	50	90	HC-FEP	1	25202142	KES HSS DIN 335 C90° HC-FEP 8,3
10.4	6	50	90	HC-FEP	1	25202143	KES HSS DIN 335 C90° HC-FEP 10,4
12.4	8	56	90	HC-FEP	1	25202144	KES HSS DIN 335 C90° HC-FEP 12,4
15	10	60	90	HC-FEP	1	*25202145*	KES HSS DIN 335 C90° HC-FEP 15,0
16.5	10	60	90	HC-FEP	1	25202146	KES HSS DIN 335 C90° HC-FEP 16,5
19	10	63	90	HC-FEP	1	*25202147*	KES HSS DIN 335 C90° HC-FEP 19,0
20.5	10	63	90	HC-FEP	1	25202148	KES HSS DIN 335 C90° HC-FEP 20,5
23	10	67	90	HC-FEP	1	*25202149*	KES HSS DIN 335 C90° HC-FEP 23,0
25	10	67	90	HC-FEP	1	25202150	KES HSS DIN 335 C90° HC-FEP 25,0

Version with three-surface shaft

31	12	71	90	HC-FEP	1	25202151	KES HSS DIN 335 C90° HC-FEP 31,0

Discontinued product

Conical countersink sets HSS DIN 335 C 90° with HICOAT coating HC-FEP

The sets include high-performance countersink tools with a countersink angle of 90° for countersinking 90° screws for particularly tough and hard materials such as alloyed and high-strength steel and stainless steel (INOX). High hardness and wear resistance thanks to HICOAT coating.

Special features:
- Particularly long tool life and very temperature-resistant.
- Can also be used in a higher cutting speed range and without coolants and lubricants.
- The sturdy plastic box protects the tools against dirt and damage.

Contents [Piece]	Contents tool diameter [mm]	Version		Item no.	Designation
3	6.3 / 10.4 / 16.5	HC-FEP	1	25202158	SET KES HSS DIN 335 C90° 3TLG HC-FEP
5	6.3 / 10.4 / 16.5 / 20.5 / 25.0	HC-FEP	1	25202159	SET KES HSS DIN 335 C90° 5TLG HC-FEP
6	6.3 / 8.3 / 10.4 / 12.4 / 16.5 / 20.5	HC-FEP	1	25202160	SET KES HSS DIN 335 C90° 6TLG HC-FEP

Conical countersink HSS DIN 334 C 60°

High-performance countersink tools with a countersink angle of 60° for deburring all common materials such as steel, cast steel and non-ferrous metals.

Special features:
- High stock removal rate and optimum chip removal.
- Burr-free results even at low cutting speeds.
- High workpiece surface quality and long tool life.

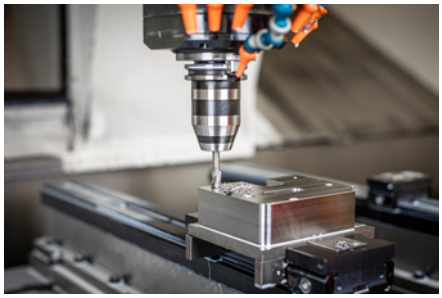
d_1 [mm]	d_2 [mm]	l_1 [mm]	α [°]	Version		Item no.	Designation
6.3	5	45	60	HSS	1	*25202161*	KES HSS DIN 334 C60° 6,3
8	6	50	60	HSS	1	*25202162*	KES HSS DIN 334 C60° 8,0
10	6	50	60	HSS	1	*25202163*	KES HSS DIN 334 C60° 10,0
12.5	8	56	60	HSS	1	*25202164*	KES HSS DIN 334 C60° 12,5
16	10	63	60	HSS	1	*25202165*	KES HSS DIN 334 C60° 16,0
20	10	67	60	HSS	1	*25202166*	KES HSS DIN 334 C60° 20,0
25	10	71	60	HSS	1	*25202167*	KES HSS DIN 334 C60° 25,0

Discontinued product

Recommended rotational speed range [RPM]

To determine the recommended cutting speed range [m/min], please proceed as follows:
① Select the material group to be machined.
② Select the type.
③ Establish the cutting speed range.

To determine the recommended rotational speed range [RPM], please proceed as follows:
④ Select the required diameter.
⑤ The cutting speed range and the diameter determine the recommended rotational speed range.



① Material group			② Design	③ Cutting speed
Steel, cast steel	Steels up to 700 N/mm²	Construction steels, carbon steels, tool steels, alloyed and non-alloyed steels, case-hardened steels, cast steel, tempering steels	Fine (F)	10–20 m/min
			Medium (M)	
			Tapping hole (GKL)	
	Steels over 700 N/mm²		Fine (F)	10–15 m/min
			Medium (M)	
			Tapping hole (GKL)	
Stainless steel (INOX)	Rust and acid-resistant steels	Austenitic and ferritic stainless steels	Fine (F)	10–15 m/min
			Medium (M)	
			Tapping hole (GKL)	
Non-ferrous metals	Soft non-ferrous metals	Aluminium alloys, brass, copper, zinc	Fine (F)	15–20 m/min
			Medium (M)	
			Tapping hole (GKL)	
	Hard non-ferrous metals	Bronze, titanium/titanium alloys, hard aluminium alloys (high Si content)	Fine (F)	10–20 m/min
			Medium (M)	
			Tapping hole (GKL)	
Cast iron	Grey cast iron, white cast iron	Cast iron with flake graphite EN-GJL (GG), with nodular graphite/nodular cast iron EN-GJS (GGG), white annealed cast iron EN-GJMW (GTW), black annealed cast iron EN-GJMB (GTS)	Fine (F)	10 m/min
			Medium (M)	
			Tapping hole (GKL)	
Plastics, other materials	Fibre-reinforced thermoplastics and duroplastics, hard rubber, wood		Fine (F)	10–15 m/min
			Medium (M)	
			Tapping hole (GKL)	

Example:
Flat countersink
FLS HSS DIN 373 15.0 F,
Flat countersink dia. 15 mm.
Steels up to 700 N/mm².
Cutting speed: 10–20 m/min
Rotational speed range: 220–440 RPM

④ Countersink dia. [mm]	⑤ Cutting speeds [m/min]		
	10	15	20
	Rotational speeds [RPM]		
6.00	530	795	1,060
8.00	400	600	800
10.00	320	480	640
11.00	290	435	580
15.00	220	330	440
18.00	180	270	360
20.00	160	240	320

HSS flat countersink DIN 373 quality grade fine for through hole

High-performance flat countersink made of HSS according to DIN 373 with the quality grade of fine for producing flat countersinks at through holes or blind holes in the tolerance range of fine with high mounting accuracy. For through holes with the quality grade fine (F) according to ISO 273.

Special features:
- Optimum chip removal and smooth running.
- Burr-free results and good surface quality.
- Long tool life and very high stock removal rate.

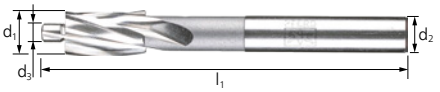
d_1 [mm]	d_2 [mm]	d_3 [mm]	l_1 [mm]	Version		Item no.	Designation
6	5	3.2	71	F	1	*25203100*	FLS HSS DIN 373 6,0 F
8	5	4.3	71	F	1	*25203101*	FLS HSS DIN 373 8,0 F
10	8	5.3	80	F	1	*25203102*	FLS HSS DIN 373 10,0 F
11	8	6.4	80	F	1	*25203103*	FLS HSS DIN 373 11,0 F
15	12.5	8.4	100	F	1	*25203104*	FLS HSS DIN 373 15,0 F
18	12.5	10.5	100	F	1	*25203105*	FLS HSS DIN 373 18,0 F
20	12.5	13	100	F	1	*25203106*	FLS HSS DIN 373 20,0 F

HSS flat countersink DIN 373 quality grade medium for through hole

High-performance flat countersink made of HSS according to DIN 373 with the quality grade of medium for producing flat countersinks at through holes or blind holes in the tolerance range of medium with extended mounting accuracy. For through holes with the quality grade medium (M) according to ISO 273.

Special features:
- Optimum chip removal and smooth running.
- Burr-free results and good surface quality.
- Long tool life and very high stock removal rate.

d_1 [mm]	d_2 [mm]	d_3 [mm]	l_1 [mm]	Version		Item no.	Designation
6	5	3.4	71	M	1	*25203107*	FLS HSS DIN 373 6,0 M
8	5	4.5	71	M	1	*25203108*	FLS HSS DIN 373 8,0 M
10	8	5.5	80	M	1	*25203109*	FLS HSS DIN 373 10,0 M
11	8	6.6	80	M	1	*25203110*	FLS HSS DIN 373 11,0 M
15	12.5	9	100	M	1	*25203111*	FLS HSS DIN 373 15,0 M
18	12.5	11	100	M	1	*25203112*	FLS HSS DIN 373 18,0 M
20	12.5	13.5	100	M	1	*25203113*	FLS HSS DIN 373 20,0 M



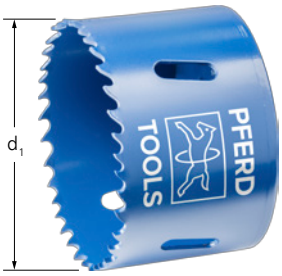
HSS flat countersink DIN 373 for thread core hole

High-performance flat countersink with guide pin for tapping hole (GKL) made of HSS according to DIN 373 for producing flat countersinks at core holes for female threads.

Special features:
- Optimum chip removal and smooth running.
- Burr-free results and good surface quality.
- Long tool life and very high stock removal rate.

d_1 [mm]	d_2 [mm]	d_3 [mm]	l_1 [mm]	Version		Item no.	Designation
6	5	2.5	71	GKL	1	*25203114*	FLS HSS DIN 373 6,0 GKL
8	5	3.3	71	GKL	1	*25203115*	FLS HSS DIN 373 8,0 GKL
10	8	4.2	80	GKL	1	*25203116*	FLS HSS DIN 373 10,0 GKL
11	8	5	80	GKL	1	*25203117*	FLS HSS DIN 373 11,0 GKL
15	12.5	6.8	100	GKL	1	*25203118*	FLS HSS DIN 373 15,0 GKL
18	12.5	8.5	100	GKL	1	*25203119*	FLS HSS DIN 373 18,0 GKL
20	12.5	10.2	100	GKL	1	*25203120*	FLS HSS DIN 373 20,0 GKL

Discontinued product



HSS hole saws

Hole saws made of tough, shatter-proof, sturdy HSS bimetal for cost-effectively cutting out holes. The saw teeth are made of high-quality M42 (Co8) material.

Special features:
- High concentricity, and chattering during sawing is prevented by the alternating tooth pitch.
- Good chip removal.
- The hole saw is conveniently centred and guided via the replaceable HSS pilot drill.

d_1 [mm]	Max. cutting depth [mm]	Opt. RPM steel	Opt. RPM stainless steel (INOX)	Opt. RPM non-ferrous metals	Opt. RPM plastics		Item no.	Designation
Thread version 1/2-20 UNF, suitable arbors LSS 1, LSS 4 or quick-mounting system PSL								
14	34	620	310	1,000	1,000	1	25100114	LS 14
16	34	550	275	880	880	1	25100116	LS 16
17	36	520	260	820	820	1	25100117	LS 17
19	36	460	230	740	740	1	25100119	LS 19
20	36	425	210	700	700	1	25100220	LS 20
21	36	410	205	670	670	1	25100221	LS 21
22	36	390	195	640	640	1	25100322	LS 22
24	36	360	180	580	580	1	25100424	LS 24
25	36	350	175	560	560	1	25100425	LS 25
27	36	325	160	520	520	1	25100527	LS 27
29	36	300	150	480	480	1	25100629	LS 29
30	36	285	145	470	470	1	25100730	LS 30
Thread version 5/8-18 UNF, suitable arbor LSS 2 or quick-mounting system PSL								
32	36	275	140	440	440	1	25100832	LS 32
33	36	260	135	420	420	1	25100933	LS 33
35	36	250	125	400	400	1	25101035	LS 35
37	36	235	115	370	370	1	25101137	LS 37
38	36	230	115	370	370	1	25101138	LS 38
40	36	215	110	350	350	1	25101240	LS 40
41	36	210	105	340	340	1	25101241	LS 41
43	31	200	100	330	330	1	25101343	LS 43
44	31	195	95	320	320	1	25101344	LS 44
46	31	185	90	300	300	1	25101346	LS 46
48	31	180	90	290	290	1	25101448	LS 48
51	31	170	85	270	270	1	25101551	LS 51
52	31	165	80	270	270	1	25101552	LS 52
54	31	160	80	260	260	1	25101654	LS 54
57	31	150	75	250	250	1	25101757	LS 57
59	31	145	70	240	240	1	25101859	LS 59
60	31	140	70	230	230	1	25101860	LS 60
64	31	135	65	220	220	1	25101963	LS 64
65	31	135	65	220	220	1	25101965	LS 65
67	31	130	65	210	210	1	25102067	LS 67
68	31	130	65	210	210	1	25102068	LS 68
70	31	125	60	200	200	1	25102170	LS 70
73	31	120	60	190	190	1	25102273	LS 73
76	31	115	55	180	180	1	25102376	LS 76

Continued on next page

HSS hole saws, sets and accessories

HSS hole saws

d_1 [mm]	Max. cutting depth [mm]	Opt. RPM steel	Opt. RPM stainless steel (INOX)	Opt. RPM non-ferrous metals	Opt. RPM plastics		Item no.	Designation
79	31	110	55	180	180	1	25102479	LS 79
83	31	105	50	170	170	1	25102583	LS 83
86	31	100	50	160	160	1	25102586	LS 86
89	31	95	45	160	160	1	25102689	LS 89
92	31	95	45	150	150	1	25102792	LS 92
95	31	90	45	150	150	1	25102895	LS 95
98	31	90	45	140	140	1	25102898	LS 98
102	31	85	40	140	140	1	25102912	LS 102
105	31	80	40	130	130	1	25103015	LS 105
111	31	75	35	130	130	1	25103111	LS 111
114	31	75	35	120	120	1	25103114	LS 114
121	31	70	35	120	120	1	25103221	LS 121
127	31	65	30	110	110	1	25103227	LS 127
140	31	60	30	100	100	1	25103440	LS 140
152	31	55	25	90	90	1	25103552	LS 152
160	31	52	23	85	85	1	25103010	LS 160
168	31	50	23	82	82	1	25103011	LS 168
177	31	47	22	77	77	1	25103012	LS 177
210	31	40	18	65	65	1	25103013	LS 210

HSS hole saw sets

Set for tradespeople

The set contains five HSS hole saws in the most common diameters, including accessories, for use in professional trades. Operating instructions are included.

Contents:
The set consists of five HSS hole saws LS 22, LS 25, LS 29, LS 32 and LS 38, a hole saw arbor LSS 4, an LSA adapter for hole saw arbor LSS 4, an Allen key 4 mm and an ejection spring.

Special features:
- It is possible to use hole saws LS 32 and LS 38 with the LSA adapter and washer.
- Supplied in well-arranged plastic box which protects against dirt and damage.

L [mm]	B [mm]	H [mm]		Item no.	Designation
200	170	50	1	25900700	SET LS-SO 7 H 8TLG

Set for fitters

The set contains six HSS hole saws in the most common diameters, including accessories, for plumbers and sanitary engineers. Operating instructions are included.

Contents:
The set consists of six HSS hole saws: LS 19, LS 22, LS 29, LS 38, LS 44 and LS 57, two hole saw arbors: LSS 2 and LSS 4, an LSA adapter for hole saw arbor LSS 4, an Alley key 4 mm and an ejection spring.

Special features:
- It is possible to use hole saw LS 38 with the LSA adapter and washer.
- Supplied in well-arranged plastic box which protects against dirt and damage.

L [mm]	B [mm]	H [mm]		Item no.	Designation
310	260	80	1	25900920	SET LS-SO 9 I 10 TLG

Set for electricians (international standard sizes)

The set contains six HSS hole saws in the most common international diameters, including accessories, for electricians. Operating instructions are included.

Contents:
The set consists of six HSS hole saws: LS 22, LS 29, LS 35, LS 44, LS 51 and LS 64, two hole saw arbors: LSS 2 and LSS 4, an LSA adapter for hole saw arbor LSS 4, an Allen key 4 mm and an ejection spring.

Special features:
- It is possible to use hole saw LS 35 with the LSA adapter and washer.
- Supplied in well-arranged plastic box which protects against dirt and damage.

L [mm]	B [mm]	H [mm]		Item no.	Designation
310	260	80	1	25900910	SET LS-SO 9E-1 10TLG

Set for electricians (German standard sizes)

The set contains nine HSS hole saws in the most common diameters, including accessories, for electricians in Germany. Operating instructions are included.

Contents:
The set consists of nine HSS hole saws: LS 19, LS 22, LS 25, LS 32, LS 38, LS 44, LS 51, LS 60 and LS 68, two hole saw arbors: LSS 2 and LSS 4, an LSA adapter for hole saw arbor LSS 4, a pilot drill LSB 6/90, an Allen key 4 mm and an ejection spring.

Special features:
- It is possible to use hole saws LS 32 and LS 38 with the LSA adapter and washer.
- Supplied in well-arranged plastic box which protects against dirt and damage.

L [mm]	B [mm]	H [mm]		Item no.	Designation
310	260	80	1	25900010	SET LS-SO 13 E-2 14TLG

Set for mechanics

The set contains nine HSS hole saws in the most common diameters, including accessories, for mechanics in the construction, container and pipeline industries. Operating instructions are included.

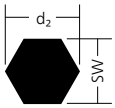
Contents:
The set consists of nine HSS hole saws: LS 19, LS 22, LS 29, LS 35, LS 38, LS 44, LS 51, LS 57 and LS 64, two hole saw arbors: LSS 2 and LSS 4, a pilot drill LSB 6/90, an LSA adapter for hole saw arbor LSS 4, an Allen key 4 mm and an ejection spring.

Special features:
- It is possible to use hole saws LS 35 and LS 38 with the LSA adapter and washer.
- Supplied in well-arranged plastic box which protects against dirt and damage.

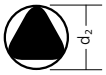
L [mm]	B [mm]	H [mm]		Item no.	Designation
310	260	80	1	25901300	SET LS-SO 13 M 14TLG

Shank dimensions [mm]

Hexagonal



Round



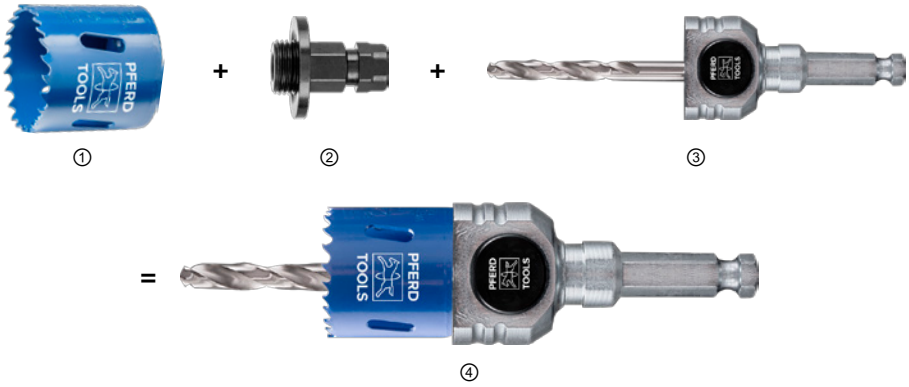
Example combination

① HSS hole saw

② Adapter

③ Quick-mounting system

④ HSS hole saw with adapter and quick-mounting system



Hole saw arbors LSS

Hole saw arbors are designed for mounting the hole saw and the pilot drill. The hole saw arbors are supplied with an HSS pilot drill and an ejection spring.

Special features:
- The spring can easily be removed manually without the help of tools.

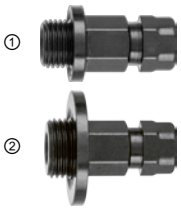
Image	Suitable for hole saws	Suitable pilot drill	d_2 [mm]	Size [mm]	Shank type	Thread		Item no.	Designation
①	LS 14-30	LSB 6/60	10.5	9.53	hexagonal	1/2–20 UNF	1	25200111	LSS 1
②	LS 32-210	LSB 6/60	10.5	9.53	hexagonal	5/8–18 UNF	1	25200211	LSS 2
③	LS 14-30	LSB 6/90	6.35	-	round	1/2–20 UNF	1	25200407	LSS 4

Quick-mounting system for hole saws

The quick-mounting system is part of a clamping system for the quick and easy use of HSS hole saws. In conjunction with adapters, it is possible to use the HSS hole saws easily and conveniently on all conventional power drills.

Special features:
- After the application is completed, the hole saw and quick-mounting system can be separated without the use of additional tools by simply pressing a button.
- Interchangeable HSS pilot drill.

Suitable for hole saws	Shank type	d_2 [mm]	Size [mm]		Item no.	Designation
LS 14–210	hexagonal	9.3	8.5	1	25200901	PSL 8,5
		12.2	11	1	25200900	PSL 11



Adapter for hole saws

Adapters tailored to the hole saw diameters.

Image	Suitable for hole saws		Item no.	Designation
①	LS 14-30	3	25200910	AD-PSL 14-30
②	LS 32-210	3	25200920	AD-PSL 32-210

HEAVY DUTY adapter for hole saws

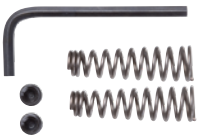
Due to the high torque levels involved, when using large hole saws, PFERD TOOLS recommends the use of the PSL quick-mounting systems in conjunction with the HEAVY DUTY adapter.

Suitable for hole saws		Item no.	Designation
LS 102–210	3	25200921	AD-PSL 102-210 HEAVY DUTY

HSS pilot drill LSB

HSS pilot drills for HSS hole saw arbors and quick-mounting systems for hole saws.

Image	Suitable for hole saws	Suitable shanks	Suitable for quick-mounting system	d_2 [mm]	l_1 [mm]	Shank type		Item no.	Designation
①	LS 14–210	LSS 1, LSS 2	-	6.35	60	round	1	25202005	LSB 6/60
②	LS 14–210	LSS 4	PSL 8,5, PSL 11	6.35	90	round	1	25202007	LSB 6/90



Repair set for hole saw arbors

With the repair set for hole saw arbors, the most common parts can be replaced in case of loss or damage.

Contents:
The repair set consists of two ejection springs,
two hexagon socket head screws and an
SW 4 hexagon socket wrench.

	Item no.	Designation
1	25200515	RSL-5

LSA adapter

Hole saws LS 32 to LS 38 can be used with the LSA adapter, a washer and the hole saw arbors LSS 1 and LSS 4.

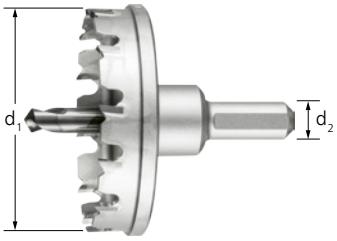
Suitable for hole saws	Suitable shanks		Item no.	Designation
LS 32-38	LSS 1, LSS 4	1	25203001	LSA

Arbor extension for hole saws

Arbor extension for extending HSS hole saw arbors to provide the necessary distance between the drive and work area.

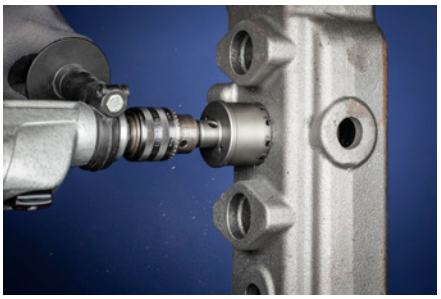
Special features:
- Suitable for working on components that are difficult to access and for work on hollow walls.
- Avoids damage to the workpiece and machine.
- Dust is not drawn into the tool drive during sawing.

Suitable shanks	Shank type	Hexagon socket d_1 [mm]	l_1 [mm]	d_2 [mm]	Size [mm]		Item no.	Designation
LSS 1, LSS 2	hexagonal	9.53	300	12.2	11	1	25200516	SVL-300



TC hole cutter, flat version

Tungsten carbide hole cutter with sharp teeth made of high-quality tungsten carbide and interchangeable HSS pilot drill for quick, precise creation of cut-outs. Suitable for working on steels, stainless steel (INOX), non-ferrous metals and plastics.



Special features:
- 8 mm tool height for work on flat material (max. material thickness: 4 mm).
- High concentricity, as the cutting head and shank are produced in one piece.

Tool height [mm]	d_1 [mm]	d_2 [mm]	Opt. RPM steel	Opt. RPM stainless steel (INOX)	Opt. RPM non-ferrous metals	Opt. RPM plastics	Suitable drills		Item no.	Designation
8	16	7	790 – 1,200	400 – 1,000	400 – 1,000	880 – 1,310	LOSB 6/48	1	25401608	LOS HM 1608
	18	7	710 – 1,060	350 – 880	350 – 880	780 – 1,170	LOSB 6/48	1	25401808	LOS HM 1808
	19	7	670 – 1,000	330 – 840	330 – 840	740 – 1,110	LOSB 6/48	1	25401908	LOS HM 1908
	20	7	630 – 950	320 – 800	320 – 800	700 – 1,050	LOSB 6/48	1	25402008	LOS HM 2008
	22	7	580 – 870	290 – 720	290 – 720	640 – 950	LOSB 6/48	1	25402208	LOS HM 2208
	23	10	550 – 830	280 – 690	280 – 690	610 – 910	LOSB 6/48	1	*25402308*	LOS HM 2308
	24	10	530 – 800	270 – 660	270 – 660	580 – 880	LOSB 6/48	1	25402408	LOS HM 2408
	25	10	510 – 760	260 – 640	260 – 640	560 – 840	LOSB 6/48	1	25402508	LOS HM 2508
	27	10	470 – 710	240 – 590	240 – 590	520 – 780	LOSB 6/48	1	25402708	LOS HM 2708
	28	10	455 – 680	230 – 570	230 – 570	500 – 750	LOSB 6/48	1	25402808	LOS HM 2808
	30	10	425 – 635	210 – 530	210 – 530	470 – 700	LOSB 6/48	1	25403008	LOS HM 3008
	32	10	400 – 600	200 – 500	200 – 500	440 – 660	LOSB 6/48	1	25403208	LOS HM 3208
	34	10	375 – 560	185 – 470	185 – 470	410 – 620	LOSB 6/48	1	25403408	LOS HM 3408
	35	10	365 – 545	180 – 450	180 – 450	400 – 600	LOSB 6/48	1	25403508	LOS HM 3508
	38	10	335 – 505	170 – 420	170 – 420	370 – 550	LOSB 6/48	1	25403808	LOS HM 3808
	40	10	320 – 480	160 – 400	160 – 400	350 – 530	LOSB 6/48	1	25404008	LOS HM 4008
	42	10	305 – 455	150 – 380	150 – 380	330 – 500	LOSB 6/48	1	25404208	LOS HM 4208
	43	10	295 – 445	150 – 370	150 – 370	330 – 490	LOSB 6/48	1	25404308	LOS HM 4308
	45	10	285 – 425	140 – 355	140 – 355	310 – 470	LOSB 6/48	1	25404508	LOS HM 4508
	48	10	265 – 400	135 – 330	135 – 330	290 – 440	LOSB 6/48	1	25404808	LOS HM 4808
	50	10	255 – 380	125 – 320	125 – 320	280 – 420	LOSB 6/48	1	25405008	LOS HM 5008
	52	10	245 – 370	120 – 305	120 – 305	270 – 400	LOSB 6/48	1	25405208	LOS HM 5208
	54	10	235 – 355	120 – 295	120 – 295	260 – 390	LOSB 6/48	1	25405408	LOS HM 5408
	55	10	230 – 350	115 – 290	115 – 290	250 – 380	LOSB 6/48	1	25405508	LOS HM 5508
	60	12	210 – 320	105 – 265	105 – 265	230 – 350	LOSB 8/48	1	25406008	LOS HM 6008
	65	12	195 – 295	100 – 245	100 – 245	220 – 320	LOSB 8/48	1	25406508	LOS HM 6508
	68	12	190 – 280	95 – 235	95 – 235	210 – 310	LOSB 8/48	1	25406808	LOS HM 6808
	70	12	180 – 270	90 – 230	90 – 230	200 – 300	LOSB 8/48	1	25407008	LOS HM 7008
	75	12	170 – 255	85 – 215	85 – 215	190 – 280	LOSB 8/48	1	25407508	LOS HM 7508
	80	12	160 – 240	80 – 200	80 – 200	180 – 260	LOSB 8/48	1	25408008	LOS HM 8008
	90	12	140 – 210	70 – 180	70 – 180	160 – 230	LOSB 8/48	1	25409008	LOS HM 9008
	100	12	125 – 190	65 – 160	65 – 160	140 – 210	LOSB 8/48	1	25410008	LOS HM 10008
	105	12	120 – 180	60 – 150	60 – 150	130 – 200	LOSB 8/48	1	25410508	LOS HM 10508

Discontinued product

TC hole cutters and accessories
TC hole cutter

TC hole cutter, deep version

Tungsten carbide hole cutter with sharp teeth made of high-quality tungsten carbide and interchangeable HSS pilot drill for quick, precise creation of cut-outs. Suitable for working on steels, stainless steel (INOX), non-ferrous metals and plastics.

Special features:
- 35 mm tool height for work on pipes and curved surfaces (max. material thickness: 32 mm).
- High concentricity, as the cutting head and shank are produced in one piece.

Tool height [mm]	d_1 [mm]	d_2 [mm]	Opt. RPM steel	Opt. RPM stainless steel (INOX)	Opt. RPM non-ferrous metals	Opt. RPM plastics	Suitable drills		Item no.	Designation
35	16	7	790 – 1,200	400 – 1,000	400 – 1,000	880 – 1,310	LOSB 6/69	1	25461635	LOS HM 1635
	17	7	750 – 1,130	370 – 930	370 – 930	820 – 1,240	LOSB 6/69	1	25461735	LOS HM 1735
	18	7	710 – 1,060	350 – 880	350 – 880	780 – 1,170	LOSB 6/69	1	25461835	LOS HM 1835
	19	7	670 – 1,000	330 – 840	330 – 840	740 – 1,110	LOSB 6/69	1	25461935	LOS HM 1935
	20	7	630 – 950	320 – 800	320 – 800	700 – 1,050	LOSB 6/69	1	25462035	LOS HM 2035
	22	7	580 – 870	290 – 720	290 – 720	640 – 950	LOSB 6/69	1	25462235	LOS HM 2235
	24	10	530 – 800	270 – 660	270 – 660	580 – 880	LOSB 8/69	1	*25462435*	LOS HM 2435
	25	10	510 – 760	260 – 640	260 – 640	560 – 840	LOSB 8/69	1	25462535	LOS HM 2535
	26	10	490 – 740	250 – 610	250 – 610	540 – 810	LOSB 8/69	1	25462635	LOS HM 2635
	27	10	470 – 710	240 – 590	240 – 590	520 – 780	LOSB 8/69	1	25462735	LOS HM 2735
	28	10	455 – 680	230 – 570	230 – 570	500 – 750	LOSB 8/69	1	25462835	LOS HM 2835
	30	10	425 – 635	210 – 530	210 – 530	470 – 700	LOSB 8/69	1	25463035	LOS HM 3035
	32	10	400 – 600	200 – 500	200 – 500	440 – 660	LOSB 8/69	1	25463235	LOS HM 3235
	35	10	365 – 545	180 – 450	180 – 450	400 – 600	LOSB 8/69	1	25463535	LOS HM 3535
	38	10	335 – 505	170 – 420	170 – 420	370 – 550	LOSB 8/69	1	25463835	LOS HM 3835
	40	10	320 – 480	160 – 400	160 – 400	350 – 530	LOSB 8/69	1	25464035	LOS HM 4035
	42	10	305 – 455	150 – 380	150 – 380	330 – 500	LOSB 8/69	1	25464235	LOS HM 4235
	43	10	295 – 445	150 – 370	150 – 370	330 – 490	LOSB 8/69	1	*25464335*	LOS HM 4335
	45	10	285 – 425	140 – 355	140 – 355	310 – 470	LOSB 8/69	1	25464535	LOS HM 4535
	48	10	265 – 400	135 – 330	135 – 330	290 – 440	LOSB 8/69	1	25464835	LOS HM 4835
	50	10	255 – 380	125 – 320	125 – 320	280 – 420	LOSB 8/69	1	25465035	LOS HM 5035
	52	10	245 – 370	120 – 305	120 – 305	270 – 400	LOSB 8/69	1	25465235	LOS HM 5235
	55	10	230 – 350	115 – 290	115 – 290	250 – 380	LOSB 8/69	1	25465535	LOS HM 5535
	60	12	210 – 320	105 – 265	105 – 265	230 – 350	LOSB 8/94	1	25466035	LOS HM 6060

HSS pilot drill for TC hole cutters

HSS pilot drill LOSB

The HSS pilot drill is replaceable.

Suitable for tungsten carbide hole cutter	Tool height [mm]		Item no.	Designation
LOS HM 16–55	8	1	25500648	LOSB 6/48
LOS HM 16–22	35	1	25500669	LOSB 6/69
LOS HM 60–105	8	1	25500848	LOSB 8/48
LOS HM 24–55	35	1	25500869	LOSB 8/69
Deep type				
LOS HM 60	60	1	25500894	LOSB 8/94

Discontinued product

PFERD TOOLS

Mounted points

Mounted points
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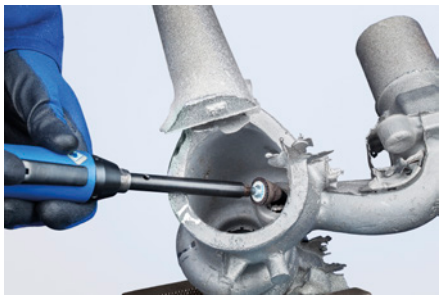
3

Mounted points
Highlights from the PFERD TOOLS range

TOUGH mounted points

TOUGH type mounted points have a state-of-the-art vitrified bond comprising an aluminium oxide mixture of ceramic oxide grain and white aluminium oxide, which impresses as it is easy to break down. The mounted points have a long tool life and high stock removal performance with excellent removal rates thanks to the self-sharpening qualities of the ceramic oxide grain.



The TOUGH type is specifically designed for general use on titanium materials, nickel-based and cobalt-based alloys, hardened steel components and built-up weld deposits. TOUGH type mounted points can easily machine hardened, heat-treated steels over 1,200 N/mm² (> 38 HRC).

Its applications include weld dressing on repair welds and reworking on turbine blades during aircraft maintenance, as well as regrinding of repair welds in tool and mould-making.

Scan the QR code to find out more about the PFERD TOOLS grinding/mounted points.

Bench grinding wheels

PFERD TOOLS offers a very wide range of high-quality bench grinding wheels for work on a large variety of materials. Bench grinding wheels are very well-suited to deburring, work on edges and sharpening tools. The bench grinding wheels are available with different dimensions, grains and abrasives. The PFERD TOOLS range has been adapted to the standard bench grinders on the market.

The bench grinding wheels impress with their long tool life, high dimensional stability and high abrasive performance. Thanks to the integrated adapter sleeves, the bench grinding wheels can be mounted on almost any bench grinder spindle. Dressing the wheel on a regular basis exposes sharp grain and maintains an even grinding area.

Scan the QR code to find out more about the PFERD TOOLS bench grinding wheels.

Grinding and polishing stones

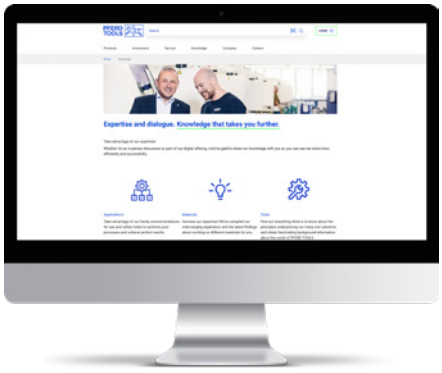
Grindstones and polishing stones are versatile tools for finish machining on moulds in tool and mould-making. They are used for step-by-step fine grinding after machining or after electrical discharge machining (EDM) to grind in a brushed finish/polish in the demoulding direction or to prepare for high-gloss polishing with diamond pastes. They are also used for rounding and finishing.

A quick-mounting handle is recommended in manual applications to make work more ergonomic. Grinding oil should be used to achieve a better surface finish. Polishing stones should be sorted by type to avoid grain being carried over.

Scan the QR code to find out more about grinding and polishing stones.

More expert information online

Scan the QR code to find out a wide range of tool and application knowledge relating to PFERD TOOLS' high-quality tools and their huge variety of materials.



Mounted points
The quick way to find the perfect tool

PFERD TOOLS

The quick way to find the perfect tool

① Material group
Select the material to be machined.

② Application
Select the application.

③ Mounted point type
After determining the application (see column ②), the type is selected in the horizontal row.

3

① Material group		② Application		Bond ▸	Resinoid bond		Vitrified bond							
				③ Mounted point type ▸	INOX	INOX EDGE	RUBBER	ALU	TOUGH	CAST	CAST STEEL	STEEL	STEEL EDGE	CAST EDGE
				Abrasive ▸	ADW	AN	AH	CN	AWCO	ARN	ADR	ADW	AR	CU
				Rec. cutting speed ▸	35–50 m/s	35–50 m/s	5–20 m/s	20–40 m/s	30–50 m/s	30–50 m/s	25–40 m/s	30–50 m/s	25–40 m/s	30–50 m/s
Steel, cast steel	Steels up to 1,200 N/mm² (< 38 HRC)	Construction steels, carbon steels, tool steels, non-alloyed steels, case-hardened steels, tempering steels	Universal									●		
			Surface	○								●	○	
			Edges		○							○	●	
	Hardened, heat-treated steels over 1,200 N/mm² (> 38 HRC)	Tool steels, tempering steels, alloyed steels	Universal									●		
			Surface						●			○		
			Edges						●				○	
	Cast steel	Non-alloyed cast steel, low-alloyed cast steel	Universal								●			
			Surface	○						○	○	●	○	
			Edges		○						○	○	●	
Stainless steel (INOX)	Rust and acid-resistant steels	Austenitic and ferritic stainless steels	Surface	●	○							○		
			Edges	○	●								○	
Non-ferrous metals	Soft non-ferrous metals, non-ferrous metals	Aluminium alloys, brass, copper, zinc	Universal	○				●						
	Hard non-ferrous metals	Bronze, titanium, titanium alloys, hard aluminium alloys		●				○	●			○		
	High-temperature-resistant materials	Nickel-based and cobalt-based alloys (engine and turbine construction)		○					●					
Cast iron	Grey cast iron, white cast iron	Cast iron with flake graphite EN-GJL (GG), with nodular graphite/ nodular cast iron EN-GJS (GGG), white annealed cast iron EN-GJMW (GTW), black annealed cast iron EN-GJMB (GTS)	Surface	○	○					●	○		○	○
			Edges	○	○					○	○		○	●
Plastics, other materials	Fibre-reinforced plastics, thermoplastics, rubber, wood		Universal			●	○							

● = highly suitable ○ = suitable

Mounted points
General information

Applications of mounted points

General use

For general use on surfaces and edges, the emphasis is on the balance between abrasive performance and tool life.

Surface grinding

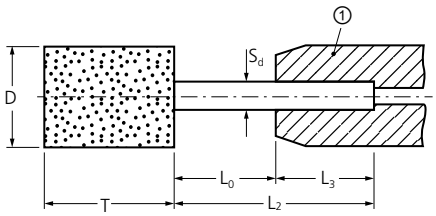
In surface grinding, the mounted points are subject to lower loads. The mounted point bond is therefore comparatively soft and has been designed to give high stock removal rates.

Edge grinding

In edge grinding, the mounted points must be dimensionally stable. The mounted point bond is therefore comparatively hard and designed for a long service life.

Explanation of the code system according to EN 12413

D = Mounted point outer dia.
T = Mounted point width
S_d = Shank dia.
L_0 = Unsupported shank length
L_2 = Shank length
L_3 = Clamping length of shank (① collet)



Safety notes

All PFERD TOOLS mounted points are approved for a maximum operating speed of 50 m/s. The maximum permitted rotational speeds for the various shank lengths and shank diameters are defined in DIN 69170 based on EN 12413. These must be adhered to in order to avoid buckling of the shank during use. Regardless of the shank length, the clamping length (L_3) of the shank must be at least 10 mm.
The maximum permitted rotational speed calculated according to EN 12413 is determined by the following factors:

- Shape and dimensions of the mounted point
- Diameter of the steel shank S_d
- Unsupported shank length L_0

Wear eye protection!

Wear hearing protection!

Wear a dust mask!

Wear gloves!

Observe the safety notes!

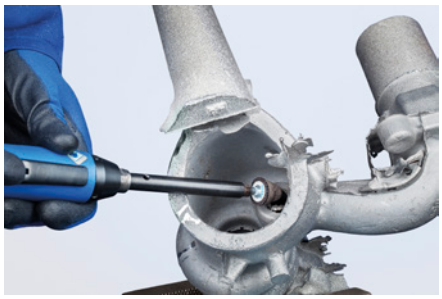
Custom-made products

If you cannot find the solution for your particular application in our extensive catalogue range, we can produce grinding and mounted points in premium PFERD TOOLS quality specifically for your application on request.

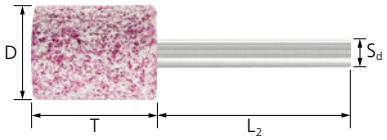
We can take into account your specifications and needs, drawings, information on dimensions and shapes, grit sizes and grain types, grain mixtures, shank diameters and shank lengths. Please speak to our sales representatives. We will be happy to advise you.

Extensions for drive spindles

Mounted points with a shank diameter of 3, 6 and 8 mm can be extended with drive spindle extensions. They allow access to hard-to-reach areas. The drive spindle extension is mounted in the collet of the tool drive (air grinder or electric grinder), or in the handpiece of the flexible shaft. In some applications, spindle extensions are an economical alternative to customized mounted points with long shanks. Further information on our drive spindle extensions can be found in catalogue section 9 “Tool drives”.



For universal use on steel and cast steel



STEEL cylindrical mounted points

These mounted points are exceptionally well suited for grinding high-speed steel (HSS) moulded parts and weld dressing of weld seams on steel constructions. The cylindrical shape ZY is ideal for grinding bores, radii and contours.

Special features:

- High grinding performance and stock removal rate in general use on steel materials.
- Shortened grinding times and thus cost savings due to the high stock removal rate.
- Particularly suitable for work on surfaces.

S_d [mm]	L_2 [mm]	D [mm]	T [mm]	Grit size	USA type	Opt. RPM	Max. RPM		Item no.	Designation
3	30	2	5	100	W 141	150,000	201,800	10	31100250	ZY 0205 3 ADW 100 M5V STEEL
		3	6	100	W 144	150,000	206,100	10	31103250	ZY 0306 3 ADW 100 M5V STEEL
		4	8	60	-	150,000	175,100	10	31105256	ZY 0408 3 ADW 60 M5V STEEL
				100	-	150,000	175,100	10	31105250	ZY 0408 3 ADW 100 M5V STEEL
		5	10	60	W 153	130,000	130,700	10	31107256	ZY 0510 3 ADW 60 M5V STEEL
				100	W 153	130,000	130,700	10	31107250	ZY 0510 3 ADW 100 M5V STEEL
		6	13	60	W 163	93,600	93,600	10	31110256	ZY 0613 3 ADW 60 M5V STEEL
				100	W 163	93,600	93,600	10	31110250	ZY 0613 3 ADW 100 M5V STEEL
		8	10	46	W 169	87,600	87,600	10	31112254	ZY 0810 3 ADW 46 M5V STEEL
				80	W 169	87,600	87,600	10	31112258	ZY 0810 3 ADW 80 M5V STEEL
			16	46	-	61,000	61,000	10	31114254	ZY 0816 3 ADW 46 M5V STEEL
				80	-	61,000	61,000	10	31114258	ZY 0816 3 ADW 80 M5V STEEL
		10	2	100	W 172	85,000	95,400	10	31308250	ZY 1002 3 ADW 100 M5V STEEL
			13	46	W 176	58,400	58,400	10	31116254	ZY 1013 3 ADW 46 M5V STEEL
		13	3	60	W 122	65,000	73,400	10	31311256	ZY 1303 3 ADW 60 M5V STEEL
				100	W 122	65,000	73,400	10	31311250	ZY 1303 3 ADW 100 M5V STEEL
6	40	3	6	100	W 144	150,000	206,100	10	*31102250*	ZY 0306 6 ADW 100 M5V STEEL
		4	8	60	-	150,000	177,400	10	31104256	ZY 0408 6 ADW 60 M5V STEEL
		5	10	60	W 153	130,000	157,800	10	31106256	ZY 0510 6 ADW 60 M5V STEEL
		6	13	60	W 163	131,500	131,500	10	31109256	ZY 0613 6 ADW 60 M5V STEEL
				100	W 163	131,500	131,500	10	31109250	ZY 0613 6 ADW 100 M5V STEEL
		8	10	80	W 169	110,000	119,300	10	31111258	ZY 0810 6 ADW 80 M5V STEEL
			16	46	-	110,000	119,300	10	31113254	ZY 0816 6 ADW 46 M5V STEEL
				80	-	110,000	119,300	10	31113258	ZY 0816 6 ADW 80 M5V STEEL
		10	13	46	W 176	85,000	95,400	10	31115254	ZY 1013 6 ADW 46 M5V STEEL

Continued on next page

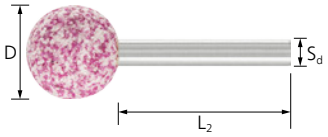
Discontinued product

Mounted points
For universal use on steel and cast steel

PFERD TOOLS

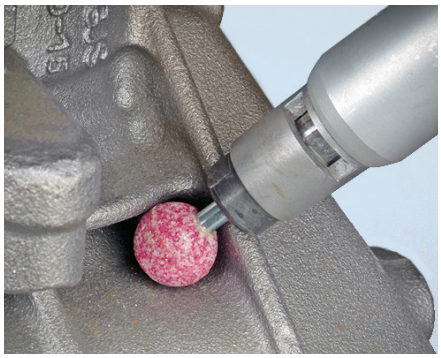
S_d [mm]	L_2 [mm]	D [mm]	T [mm]	Grit size	USA type	Opt. RPM	Max. RPM		Item no.	Designation
6	40	10	13	80	W 176	85,000	95,400	10	31115258	ZY 1013 6 ADW 80 M5V STEEL
			20	46	W 177	85,000	95,400	10	31118254	ZY 1020 6 ADW 46 M5V STEEL
				80	W 177	85,000	95,400	10	31118258	ZY 1020 6 ADW 80 M5V STEEL
			25	46	W 178	83,200	83,200	10	31119254	ZY 1025 6 ADW 46 M5V STEEL
				80	W 178	83,200	83,200	10	31119258	ZY 1025 6 ADW 80 M5V STEEL
			32	46	W 179	62,800	62,800	10	31120254	ZY 1032 6 ADW 46 M5V STEEL
				80	W 179	62,800	62,800	10	31120258	ZY 1032 6 ADW 80 M5V STEEL
		13	13	46	W 185	65,000	73,400	10	*31121254*	ZY 1313 6 ADW 46 M5V STEEL
			20	46	W 186	65,000	73,400	10	31124254	ZY 1320 6 ADW 46 M5V STEEL
				80	W 186	65,000	73,400	10	31124258	ZY 1320 6 ADW 80 M5V STEEL
			25	46	W 187	65,000	66,000	10	31125254	ZY 1325 6 ADW 46 M5V STEEL
				80	W 187	65,000	66,000	10	31125258	ZY 1325 6 ADW 80 M5V STEEL
			40	46	W 188	42,400	42,400	10	31146254	ZY 1340 6 ADW 46 M5V STEEL
		16	4	46	-	55,000	59,600	10	*31313254*	ZY 1604 6 ADW 46 M5V STEEL
				80	-	55,000	59,600	10	*31313258*	ZY 1604 6 ADW 80 M5V STEEL
			20	30	W 195	55,000	59,600	10	31126253	ZY 1620 6 ADW 30 M5V STEEL
				60	W 195	55,000	59,600	10	31126256	ZY 1620 6 ADW 60 M5V STEEL
			32	30	-	51,200	51,200	10	31127253	ZY 1632 6 ADW 30 M5V STEEL
				60	-	51,200	51,200	10	31127256	ZY 1632 6 ADW 60 M5V STEEL
			40	30	-	40,500	40,500	10	31128253	ZY 1640 6 ADW 30 M5V STEEL
			50	30	W 197	31,300	31,300	10	31129253	ZY 1650 6 ADW 30 M5V STEEL
		20	6	46	W 201	43,000	47,700	10	31317254	ZY 2006 6 ADW 46 M5V STEEL
				80	W 201	43,000	47,700	10	*31317258*	ZY 2006 6 ADW 80 M5V STEEL
			20	30	W 204	43,000	47,700	10	31130253	ZY 2020 6 ADW 30 M5V STEEL
				60	W 204	43,000	47,700	10	31130256	ZY 2020 6 ADW 60 M5V STEEL
			25	30	W 205	43,000	47,700	10	31131253	ZY 2025 6 ADW 30 M5V STEEL
				60	W 205	43,000	47,700	10	31131256	ZY 2025 6 ADW 60 M5V STEEL
			32	30	W 206	41,100	41,100	10	31132253	ZY 2032 6 ADW 30 M5V STEEL
				60	W 206	41,100	41,100	10	31132256	ZY 2032 6 ADW 60 M5V STEEL
			40	30	W 207	32,400	32,400	10	31133253	ZY 2040 6 ADW 30 M5V STEEL
				60	W 207	32,400	32,400	10	31133256	ZY 2040 6 ADW 60 M5V STEEL
		25	6	46	W 216	35,000	38,100	10	31321254	ZY 2506 6 ADW 46 M5V STEEL
			25	30	W 220	35,000	38,100	10	31134253	ZY 2525 6 ADW 30 M5V STEEL
				60	W 220	35,000	38,100	10	31134256	ZY 2525 6 ADW 60 M5V STEEL
			32	30	-	32,900	32,900	10	31135253	ZY 2532 6 ADW 30 M5V STEEL
		32	8	30	W 226	27,000	29,800	5	*31325253*	ZY 3208 6 ADW 30 M5V STEEL
				60	W 226	27,000	29,800	5	31325256	ZY 3208 6 ADW 60 M5V STEEL
			16	24	-	27,000	29,800	5	31326252	ZY 3216 6 ADW 24 M5V STEEL
			20	24	W 228	27,000	29,800	5	31327252	ZY 3220 6 ADW 24 M5V STEEL
				46	W 228	27,000	29,800	5	*31327254*	ZY 3220 6 ADW 46 M5V STEEL
			32	24	W 230	25,700	25,700	5	31136252	ZY 3232 6 ADW 24 M5V STEEL
				46	W 230	25,700	25,700	5	31136254	ZY 3232 6 ADW 46 M5V STEEL
			40	24	W 231	20,300	20,300	5	31137252	ZY 3240 6 ADW 24 M5V STEEL
				46	W 231	20,300	20,300	5	31137254	ZY 3240 6 ADW 46 M5V STEEL
		40	6	46	W 235	22,000	23,800	5	*31375254*	ZY 4006 6 ADW 46 M5V STEEL
			10	30	W 236	22,000	23,800	5	31328253	ZY 4010 6 ADW 30 M5V STEEL
			20	24	-	22,000	23,800	5	31330252	ZY 4020 6 ADW 24 M5V STEEL
				46	-	22,000	23,800	5	31330254	ZY 4020 6 ADW 46 M5V STEEL
			40	24	W 238	16,200	16,200	5	31138252	ZY 4040 6 ADW 24 M5V STEEL
				46	W 238	16,200	16,200	5	31138254	ZY 4040 6 ADW 46 M5V STEEL
		50	8	30	-	17,000	19,000	5	31378253	ZY 5008 6 ADW 30 M5V STEEL
			13	30	-	17,000	19,000	5	31331253	ZY 5013 6 ADW 30 M5V STEEL
			25	46	W 242	17,000	19,000	5	31332254	ZY 5025 6 ADW 46 M5V STEEL
8	40	50	25	24	W 242	17,000	19,000	5	31382252	ZY 5025 8 ADW 24 M5V STEEL

Discontinued product



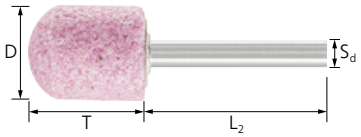
STEEL, ball type

These mounted points are exceptionally well suited for grinding high-speed steel (HSS) moulded parts and weld dressing of weld seams on steel constructions. The ball shape KU is often used for contour grinding and backside deburring.



Special features:
- High grinding performance and stock removal rate in general use on steel materials.
- Shortened grinding times and thus cost savings due to the high stock removal rate.
- Particularly suitable for work on surfaces.

S_d [mm]	L_2 [mm]	D [mm]	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
6	40	13	46	65,000	73,400	10	31706254	KU 13 6 ADW 46 M5V STEEL
		16	30	55,000	59,600	10	31707253	KU 16 6 ADW 30 M5V STEEL
			60	55,000	59,600	10	31707256	KU 16 6 ADW 60 M5V STEEL
		20	30	43,000	47,700	10	31708253	KU 20 6 ADW 30 M5V STEEL
			60	43,000	47,700	10	31708256	KU 20 6 ADW 60 M5V STEEL
		25	60	35,000	38,100	10	31709256	KU 25 6 ADW 60 M5V STEEL
		32	24	27,000	29,800	5	31710252	KU 32 6 ADW 24 M5V STEEL
			46	27,000	29,800	5	31710254	KU 32 6 ADW 46 M5V STEEL



Cylindrical with radius end type STEEL

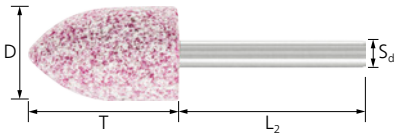
These mounted points are exceptionally well suited for grinding high-speed steel (HSS) moulded parts and weld dressing of weld seams on steel constructions. The cylindrical shape with radius end WR is suitable for a variety of deburring and grinding jobs.

Special features:
- High grinding performance and stock removal rate in general use on steel materials.
- Shortened grinding times and thus cost savings due to the high stock removal rate.
- Particularly suitable for work on surfaces.

S_d [mm]	L_2 [mm]	D [mm]	T [mm]	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
6	40	13	20	46	65,000	73,400	10	31406254	WR 1320 6 ADW 46 M5V STEEL
		20	25	30	43,000	47,700	10	*31407253*	WR 2025 6 ADW 30 M5V STEEL
				60	43,000	47,700	10	*31407256*	WR 2025 6 ADW 60 M5V STEEL

Discontinued product

Mounted points
For universal use on steel and cast steel

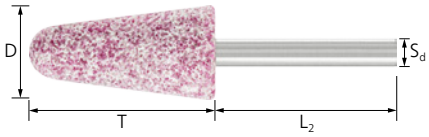


Pointed tree type STEEL

These mounted points are exceptionally well suited for grinding high-speed steel (HSS) moulded parts and weld dressing of weld seams on steel constructions. The pointed tree shape SP is suitable for machining small holes and bores.

Special features:
- High grinding performance and stock removal rate in general use on steel materials.
- Shortened grinding times and thus cost savings due to the high stock removal rate.
- Particularly suitable for work on surfaces.

S_d [mm]	L_2 [mm]	D [mm]	T [mm]	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
6	40	8	16	46	110,000	119,300	10	32105254	SP 0816 6 ADW 46 M5V STEEL
		13	20	46	65,000	73,400	10	32107254	SP 1320 6 ADW 46 M5V STEEL
		20	32	30	43,000	47,700	10	32109253	SP 2032 6 ADW 30 M5V STEEL
				60	43,000	47,700	10	32109256	SP 2032 6 ADW 60 M5V STEEL
			50	30	30,500	30,500	10	32111253	SP 2050 6 ADW 30 M5V STEEL
		25	40	30	35,000	35,000	10	32114253	SP 2540 6 ADW 30 M5V STEEL



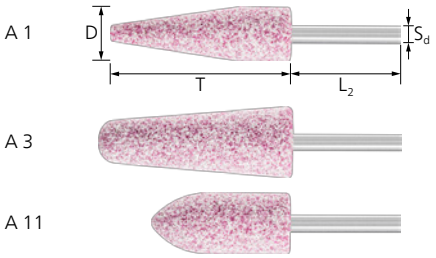
STEEL, tapered type

These mounted points are exceptionally well suited for grinding high-speed steel (HSS) moulded parts and weld dressing of weld seams on steel constructions. The conical shape KE is designed for a comfortable working position during surface grinding and grinding of chamfers.

Special features:
- High grinding performance and stock removal rate in general use on steel materials.
- Shortened grinding times and thus cost savings due to the high stock removal rate.
- Particularly suitable for work on surfaces.

S_d [mm]	L_2 [mm]	D [mm]	T [mm]	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
6	40	10	25	46	85,000	95,400	10	32209254	KE 1025 6 ADW 46 M5V STEEL
				80	65,000	95,400	10	32209258	KE 1025 6 ADW 80 M5V STEEL
		16	45	46	52,000	52,000	10	32210254	KE 1645 6 ADW 46 M5V STEEL
				80	52,000	52,000	10	32210258	KE 1645 6 ADW 80 M5V STEEL
		20	32	30	43,000	47,700	10	32208253	KE 2032 6 ADW 30 M5V STEEL
				60	43,000	47,700	10	32208256	KE 2032 6 ADW 60 M5V STEEL
			40	30	43,000	47,700	10	32212253	KE 2040 6 ADW 30 M5V STEEL
				60	43,000	47,700	10	32212256	KE 2040 6 ADW 60 M5V STEEL
		25	25	30	35,000	38,100	10	32206253	KE 2525 6 ADW 30 M5V STEEL
			45	30	34,000	34,000	10	32211253	KE 2545 6 ADW 30 M5V STEEL
				60	34,000	34,000	10	32211256	KE 2545 6 ADW 60 M5V STEEL
			70	30	20,400	20,400	10	32214253	KE 2570 6 ADW 30 M5V STEEL
		32	32	24	27,000	29,800	5	32207252	KE 3232 6 ADW 24 M5V STEEL
				46	27,000	29,800	5	32207254	KE 3232 6 ADW 46 M5V STEEL

Mounted points
For universal use on steel and cast steel



Series A STEEL

These mounted points are exceptionally well suited for grinding high-speed steel (HSS) moulded parts and weld dressing of weld seams on a wide range of different contours on steel constructions.

Special features:
- High grinding performance and stock removal rate in general use on steel materials.
- Shortened grinding times and thus cost savings due to the high stock removal rate.
- Particularly suitable for work on surfaces.

S_d [mm]	L_2 [mm]	USA type	D [mm]	T [mm]	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
6.35	40	A 1	19	64	30	33,500	33,500	10	35001253	A 1 6,3 ADW 30 M5V STEEL
		A 11	22	50	30	30,400	30,400	10	*35011253*	A 11 6,3 ADW 30 M5V STEEL

Mounted point set SSO 5300 STEEL

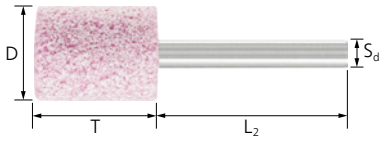
This set is exceptionally well suited for grinding high-speed steel (HSS) moulded parts and weld dressing of weld seams on steel constructions. It contains 100 mounted points with 6 mm shank diameter in the most common shapes and dimensions.

Contents:
Contains ten each of the following mounted points: 16 x 20 mm, 20 x 25 mm, 25 x 6 mm, 25 x 32 mm, 32 x 16 mm, 32 x 32 mm, 40 x 20 mm in cylindrical shape, 20 x 32 mm in pointed tree shape and 25 x 70 mm in conical shape.

Special features:
- High grinding performance and stock removal rate in general use on steel materials.
- Shortened grinding times and thus cost savings due to the high stock removal rate.
- Particularly suitable for work on surfaces.

S_d [mm]	Grit size		Item no.	Designation
6	coarse	1	33930001	SSO 5300 STEEL

For edge grinding on steel and cast steel



STEEL EDGE cylindrical mounted points

These mounted points are particularly suitable for edge grinding and for deburring work, as well as for grinding chamfers for weld seam preparation and weld dressing on contours. The cylindrical shape ZY is ideal for grinding bores, radii and contours.

Special features:
- Long tool life and low tool wear due to hard, dimensionally stable bond.
- Economical to use due to the high edge stability even on low-speed tool drives.
- Particularly well suited to work on edges.

S_d [mm]	L_2 [mm]	D [mm]	T [mm]	Grit size	USA type	Opt. RPM	Max. RPM		Item no.	Designation
3	30	2	5	100	W 141	150,000	201,800	10	31100270	ZY 0205 3 AR 100 O5V STEEL EDGE
		3	6	100	W 144	150,000	206,100	10	31103270	ZY 0306 3 AR 100 O5V STEEL EDGE
			10	100	W 145	131,400	131,400	10	35805270	ZY 0310 3 AR 100 O5V STEEL EDGE
			13	100	W 146	95,400	95,400	10	35806270	ZY 0313 3 AR 100 O5V STEEL EDGE
		4	8	60	-	150,000	175,100	10	31105276	ZY 0408 3 AR 60 O5V STEEL EDGE

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Discontinued product

Mounted points
For edge grinding on steel and cast steel

PFERD TOOLS

S_d [mm]	L_2 [mm]	D [mm]	T [mm]	Grit size	USA type	Opt. RPM	Max. RPM		Item no.	Designation
3	30	4	8	100	-	150,000	175,100	10	31105270	ZY 0408 3 AR 100 O5V STEEL EDGE
		5	10	60	W 153	130,000	130,700	10	31107276	ZY 0510 3 AR 60 O5V STEEL EDGE
				100	W 153	130,000	130,700	10	31107270	ZY 0510 3 AR 100 O5V STEEL EDGE
			13	100	W 154	114,800	114,800	10	35814270	ZY 0513 3 AR 100 O5V STEEL EDGE
			15	60	-	98,100	98,100	10	31142276	ZY 0515 3 AR 60 O5V STEEL EDGE
		6	10	60	W 162	100,000	110,500	10	35822276	ZY 0610 3 AR 60 O5V STEEL EDGE
				100	W 162	100,000	110,500	10	35822270	ZY 0610 3 AR 100 O5V STEEL EDGE
			13	60	W 163	93,600	93,600	10	31110276	ZY 0613 3 AR 60 O5V STEEL EDGE
				100	W 163	93,600	93,600	10	31110270	ZY 0613 3 AR 100 O5V STEEL EDGE
			19	60	W 164	64,500	64,500	10	*35824276*	ZY 0619 3 AR 60 O5V STEEL EDGE
				100	W 164	64,500	64,500	10	35824270	ZY 0619 3 AR 100 O5V STEEL EDGE
			25	60	-	53,100	53,100	10	31140276	ZY 0625 3 AR 60 O5V STEEL EDGE
		8	2	100	W 165	85,000	119,300	10	31305270	ZY 0802 3 AR 100 O5V STEEL EDGE
			10	46	W 169	85,000	87,600	10	31112274	ZY 0810 3 AR 46 O5V STEEL EDGE
				80	W 169	85,000	87,600	10	31112278	ZY 0810 3 AR 80 O5V STEEL EDGE
			13	46	W 170	74,400	74,400	10	*35830274*	ZY 0813 3 AR 46 O5V STEEL EDGE
				80	W 170	74,400	74,400	10	35830278	ZY 0813 3 AR 80 O5V STEEL EDGE
			16	46	-	61,000	61,000	10	31114274	ZY 0816 3 AR 46 O5V STEEL EDGE
				80	-	61,000	61,000	10	31114278	ZY 0816 3 AR 80 O5V STEEL EDGE
		10	2	100	W 172	65,000	95,400	10	31308270	ZY 1002 3 AR 100 O5V STEEL EDGE
			3	60	W 173	65,000	100,500	10	*35833276*	ZY 1003 3 AR 60 O5V STEEL EDGE
			10	80	W 175	65,000	77,500	10	35835278	ZY 1010 3 AR 80 O5V STEEL EDGE
			13	46	W 176	58,400	58,400	10	31116274	ZY 1013 3 AR 46 O5V STEEL EDGE
				80	W 176	58,400	58,400	10	31116278	ZY 1013 3 AR 80 O5V STEEL EDGE
		13	3	60	W 182	50,000	73,400	10	31311276	ZY 1303 3 AR 60 O5V STEEL EDGE
				100	W 182	50,000	73,400	10	31311270	ZY 1303 3 AR 100 O5V STEEL EDGE
			13	46	W 185	45,300	45,300	10	31122274	ZY 1313 3 AR 46 O5V STEEL EDGE
				80	W 185	45,300	45,300	10	31122278	ZY 1313 3 AR 80 O5V STEEL EDGE
		16	3	60	W 191	42,000	60,000	10	35851276	ZY 1603 3 AR 60 O5V STEEL EDGE
			4	46	-	42,000	59,600	10	*31314274*	ZY 1604 3 AR 46 O5V STEEL EDGE
				80	-	42,000	59,600	10	31314278	ZY 1604 3 AR 80 O 5V STEEL EDGE
		19	3	60	W 200	35,000	49,900	10	35860276	ZY 1903 3 AR 60 O5V STEEL EDGE
		20	6	80	W 201	33,000	47,700	10	31340278	ZY 2006 3 AR 80 O5V STEEL EDGE
		25	3	100	W 215	26,000	37,500	10	*35875270*	ZY 2503 3 AR 100 O5V STEEL EDGE
6	40	3	6	100	W 144	150,000	206,100	10	*31102270*	ZY 0306 6 AR 100 O5V STEEL EDGE
		4	8	60	-	150,000	177,400	10	31104276	ZY 0408 6 AR 60 O5V STEEL EDGE
				100	-	150,000	177,400	10	*31104270*	ZY 0408 6 AR 100 O5V STEEL EDGE
		5	10	60	W 153	130,000	157,800	10	31106276	ZY 0510 6 AR 60 O5V STEEL EDGE
				100	W 153	130,000	157,800	10	31106270	ZY 0510 6 AR 100 O5V STEEL EDGE
		6	13	60	W 163	100,000	131,500	10	31109276	ZY 0613 6 AR 60 O5V STEEL EDGE
				100	W 163	100,000	131,500	10	31109270	ZY 0613 6 AR 100 O5V STEEL EDGE
			25	60	-	62,200	62,200	10	31139276	ZY 0625 6 AR 60 O5V STEEL EDGE
		8	10	46	W 169	85,000	119,300	10	31111274	ZY 0810 6 AR 46 O5V STEEL EDGE
				80	W 169	85,000	119,300	10	31111278	ZY 0810 6 AR 80 O5V STEEL EDGE
			16	46	-	85,000	119,300	10	31113274	ZY 0816 6 AR 46 O5V STEEL EDGE
				80	-	85,000	119,300	10	31113278	ZY 0816 6 AR 80 O5V STEEL EDGE
		10	13	46	W 176	65,000	95,400	10	31115274	ZY 1013 6 AR 46 O5V STEEL EDGE
				80	W 176	65,000	95,400	10	31115278	ZY 1013 6 AR 80 O5V STEEL EDGE
			20	46	W 177	65,000	95,400	10	31118274	ZY 1020 6 AR 46 O5V STEEL EDGE
				80	W 177	65,000	95,400	10	31118278	ZY 1020 6 AR 80 O5V STEEL EDGE
			25	46	W 178	65,000	83,200	10	31119274	ZY 1025 6 AR 46 O5V STEEL EDGE
				80	W 178	65,000	83,200	10	31119278	ZY 1025 6 AR 80 O5V STEEL EDGE
			32	46	W 179	62,800	62,800	10	31120274	ZY 1032 6 AR 46 O5V STEEL EDGE
				80	W 179	62,800	62,800	10	31120278	ZY 1032 6 AR 80 O5V STEEL EDGE

Continued on next page

Discontinued product

Mounted points
For edge grinding on steel and cast steel

PFERD TOOLS

S_d [mm]	L_2 [mm]	D [mm]	T [mm]	Grit size	USA type	Opt. RPM	Max. RPM		Item no.	Designation
6	40	13	3	60	W 182	50,000	73,400	10	*31310276*	ZY 1303 6 AR 60 O5V STEEL EDGE
			13	46	W 185	50,000	73,400	10	*31121274*	ZY 1313 6 AR 46 O5V STEEL EDGE
				80	W 185	50,000	73,400	10	*31121278*	ZY 1313 6 AR 80 O5V STEEL EDGE
			20	46	W 186	50,000	73,400	10	31124274	ZY 1320 6 AR 46 O5V STEEL EDGE
				80	W 186	50,000	73,400	10	*31124278*	ZY 1320 6 AR 80 O5V STEEL EDGE
			25	46	W 187	50,000	66,000	10	31125274	ZY 1325 6 AR 46 O5V STEEL EDGE
				80	W 187	50,000	66,000	10	31125278	ZY 1325 6 AR 80 O5V STEEL EDGE
			40	46	W 188	42,400	42,400	10	31146274	ZY 1340 6 AR 46 O5V STEEL EDGE
		16	4	46	-	42,000	59,600	10	*31313274*	ZY 1604 6 AR 46 O5V STEEL EDGE
				80	-	42,000	59,600	10	*31313278*	ZY 1604 6 AR 80 O5V STEEL EDGE
			10	30	W 193	42,000	59,600	10	*31316273*	ZY 1610 6 AR 30 O5V STEEL EDGE
			20	30	W 195	42,000	59,600	10	31126273	ZY 1620 6 AR 30 O5V STEEL EDGE
				60	W 195	42,000	59,600	10	31126276	ZY 1620 6 AR 60 O5V STEEL EDGE
			32	30	-	42,000	51,200	10	31127273	ZY 1632 6 AR 30 O5V STEEL EDGE
				60	-	42,000	51,200	10	31127276	ZY 1632 6 AR 60 O5V STEEL EDGE
			40	30	-	40,500	40,500	10	31128273	ZY 1640 6 AR 30 O5V STEEL EDGE
				60	-	40,500	40,500	10	31128276	ZY 1640 6 AR 60 O5V STEEL EDGE
			50	30	W 197	31,300	31,300	10	31129273	ZY 1650 6 AR 30 O5V STEEL EDGE
		20	6	46	W 201	33,000	47,700	10	*31317274*	ZY 2006 6 AR 46 O5V STEEL EDGE
				80	W 201	33,000	47,700	10	*31317278*	ZY 2006 6 AR 80 O5V STEEL EDGE
			10	30	W 202	33,000	47,700	10	*31319273*	ZY 2010 6 AR 30 O5V STEEL EDGE
				60	W 202	33,000	47,700	10	*31319276*	ZY 2010 6 AR 60 O5V STEEL EDGE
			20	30	W 204	33,000	47,700	10	31130273	ZY 2020 6 AR 30 O5V STEEL EDGE
				60	W 204	33,000	47,700	10	31130276	ZY 2020 6 AR 60 O5V STEEL EDGE
			25	30	W 205	33,000	47,700	10	31131273	ZY 2025 6 AR 30 O5V STEEL EDGE
				60	W 205	33,000	47,700	10	31131276	ZY 2025 6 AR 60 O5V STEEL EDGE
			32	30	W 206	33,000	41,100	10	31132273	ZY 2032 6 AR 30 O5V STEEL EDGE
				60	W 206	33,000	41,100	10	31132276	ZY 2032 6 AR 60 O5V STEEL EDGE
			40	30	W 207	32,400	32,400	10	31133273	ZY 2040 6 AR 30 O5V STEEL EDGE
				60	W 207	32,400	32,400	10	31133276	ZY 2040 6 AR 60 O5V STEEL EDGE
			50	30	W 208	25,100	25,100	10	31148273	ZY 2050 6 AR 30 O5V STEEL EDGE
		25	6	46	W 214	26,000	38,100	10	31321274	ZY 2506 6 AR 46 O5V STEEL EDGE
				80	W 214	26,000	38,100	10	31321278	ZY 2506 6 AR 80 O5V STEEL EDGE
			10	30	W 217	26,000	38,100	10	*31322273*	ZY 2510 6 AR 30 O5V STEEL EDGE
			13	30	W 218	26,000	38,100	10	31323273	ZY 2513 6 AR 30 O5V STEEL EDGE
			16	60	-	26,000	38,100	10	31324276	ZY 2516 6 AR 60 O5V STEEL EDGE
			25	30	W 220	26,000	38,100	10	31134273	ZY 2525 6 AR 30 O5V STEEL EDGE
				60	W 220	26,000	38,100	10	31134276	ZY 2525 6 AR 60 O5V STEEL EDGE
			32	30	-	26,000	32,900	10	31135273	ZY 2532 6 AR 30 O5V STEEL EDGE
				60	-	26,000	32,900	10	31135276	ZY 2532 6 AR 60 O5V STEEL EDGE
			40	30	W 221	26,000	26,000	10	31151273	ZY 2540 6 AR 30 O5V STEEL EDGE
		32	6	46	W 225	21,000	30,000	5	35985274	ZY 3206 6 AR 46 O5V STEEL EDGE
			8	30	-	21,000	29,800	5	*31325273*	ZY 3208 6 AR 30 O5V STEEL EDGE
				60	-	21,000	29,800	5	*31325276*	ZY 3208 6 AR 60 O5V STEEL EDGE
			20	24	W 228	21,000	29,800	5	31327272	ZY 3220 6 AR 24 O5V STEEL EDGE
				46	W 228	21,000	29,800	5	31327274	ZY 3220 6 AR 46 O5V STEEL EDGE
			32	24	W 230	21,000	25,700	5	31136272	ZY 3232 6 AR 24 O5V STEEL EDGE
				46	W 230	21,000	25,700	5	31136274	ZY 3232 6 AR 46 O5V STEEL EDGE
			40	24	W 231	20,300	20,300	5	31137272	ZY 3240 6 AR 24 O5V STEEL EDGE
				46	W 231	20,300	20,300	5	*31137274*	ZY 3240 6 AR 46 O5V STEEL EDGE
		40	6	46	W 235	16,000	23,800	5	31375274	ZY 4006 6 AR 46 O5V STEEL EDGE
			10	30	W 236	16,000	23,800	5	31328273	ZY 4010 6 AR 30 O5V STEEL EDGE
				60	W 236	16,000	23,800	5	31328276	ZY 4010 6 AR 60 O5V STEEL EDGE
			15	30	-	16,000	23,800	5	*31329273*	ZY 4015 6 AR 30 O5V STEEL EDGE

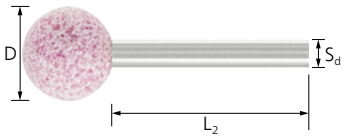
Continued on next page

Discontinued product

Mounted points
For edge grinding on steel and cast steel

PFERD TOOLS

S_d [mm]	L_2 [mm]	D [mm]	T [mm]	Grit size	USA type	Opt. RPM	Max. RPM		Item no.	Designation
6	40	40	15	60	-	16,000	23,800	5	*31329276*	ZY 4015 6 AR 60 O5V STEEL EDGE
			20	24	-	16,000	23,800	5	31330272	ZY 4020 6 AR 24 O5V STEEL EDGE
				46	-	16,000	23,800	5	31330274	ZY 4020 6 AR 46 O5V STEEL EDGE
			40	24	W 238	16,000	16,200	5	31138272	ZY 4040 6 AR 24 O5V STEEL EDGE
				46	W 238	16,000	16,200	5	31138274	ZY 4040 6 AR 46 O5V STEEL EDGE
		50	8	30	-	13,000	19,000	5	31378273	ZY 5008 6 AR 30 O5V STEEL EDGE
			13	30	-	13,000	19,000	5	*31331273*	ZY 5013 6 AR 30 O5V STEEL EDGE
			25	24	W 242	13,000	19,000	5	31332272	ZY 5025 6 AR 24 O5V STEEL EDGE
				46	W 242	13,000	19,000	5	31332274	ZY 5025 6 AR 46 O5V STEEL EDGE
8	40	32	40	24	W 231	21,000	29,800	5	*31187272*	ZY 3240 8 AR 24 O5V STEEL EDGE
		40	40	24	W 238	16,000	23,800	5	31188272	ZY 4040 8 AR 24 O5V STEEL EDGE



STEEL EDGE, ball type

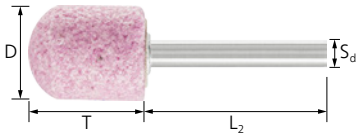
These mounted points are particularly suitable for edge grinding and for deburring work, as well as for grinding chamfers for weld seam preparation and weld dressing on contours. The ball shape KU is often used for contour grinding and backside deburring.

Special features:
- Long tool life and low tool wear due to hard, dimensionally stable bond.
- Economical to use due to the high edge stability even on low-speed tool drives.
- Particularly well suited to work on edges.

S_d [mm]	L_2 [mm]	D [mm]	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
3	30	3	100	150,000	300,200	10	31702270	KU 03 3 AR 100 O5V STEEL EDGE
		5	60	130,000	190,900	10	31704276	KU 05 3 AR 60 O5V STEEL EDGE
			100	130,000	190,900	10	31704270	KU 05 3 AR 100 O5V STEEL EDGE
		8	46	85,000	116,200	10	31715274	KU 08 3 AR 46 O5V STEEL EDGE
			80	85,000	116,200	10	31715278	KU 08 3 AR 80 O5V STEEL EDGE
		10	46	65,000	83,300	10	31712274	KU 10 3 AR 46 O5V STEEL EDGE
			80	65,000	83,300	10	31712278	KU 10 3 AR 80 O5V STEEL EDGE
		13	46	50,000	54,000	10	31717274	KU 13 3 AR 46 O5V STEEL EDGE
			80	50,000	54,000	10	31717278	KU 13 3 AR 80 O5V STEEL EDGE
6	40	3	100	150,000	317,300	10	31701270	KU 03 6 AR 100 O5V STEEL EDGE
		5	60	130,000	190,900	10	31703276	KU 05 6 AR 60 O5V STEEL EDGE
			100	130,000	190,900	10	31703270	KU 05 6 AR 100 O5V STEEL EDGE
		8	46	85,000	119,300	10	31705274	KU 08 6 AR 46 O5V STEEL EDGE
			80	85,000	119,300	10	31705278	KU 08 6 AR 80 O5V STEEL EDGE
		10	46	65,000	95,400	10	31711274	KU 10 6 AR 46 O5V STEEL EDGE
			80	65,000	95,400	10	31711278	KU 10 6 AR 80 O5V STEEL EDGE
		13	46	50,000	73,400	10	31706274	KU 13 6 AR 46 O5V STEEL EDGE
			80	50,000	73,400	10	31706278	KU 13 6 AR 80 O5V STEEL EDGE
		16	30	42,000	59,600	10	31707273	KU 16 6 AR 30 O5V STEEL EDGE
			60	42,000	59,600	10	31707276	KU 16 6 AR 60 O5V STEEL EDGE
		20	30	33,000	47,700	10	31708273	KU 20 6 AR 30 O5V STEEL EDGE
			60	33,000	47,700	10	31708276	KU 20 6 AR 60 O5V STEEL EDGE
		25	30	26,000	38,100	10	31709273	KU 25 6 AR 30 O5V STEEL EDGE
			60	26,000	38,100	10	31709276	KU 25 6 AR 60 O5V STEEL EDGE
		32	24	21,000	29,800	5	31710272	KU 32 6 AR 24 O5V STEEL EDGE
			46	21,000	29,800	5	31710274	KU 32 6 AR 46 O5V STEEL EDGE

Discontinued product

Mounted points
For edge grinding on steel and cast steel

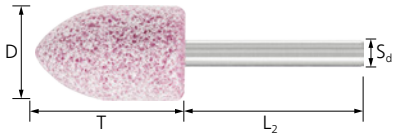


Cylindrical with radius end type STEEL EDGE

These mounted points are particularly suitable for edge grinding and for deburring work, as well as for grinding chamfers for weld seam preparation and weld dressing on contours. The cylindrical shape with radius end WR is perfect for a variety of deburring and grinding jobs.

Special features:
- Long tool life and low tool wear due to hard, dimensionally stable bond.
- Economical to use due to the high edge stability even on low-speed tool drives.
- Particularly well suited to work on edges.

S_d [mm]	L_2 [mm]	D [mm]	T [mm]	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
3	30	3	6	100	150,000	219,800	10	31402270	WR 0306 3 AR 100 O5V STEEL EDGE
		5	10	60	130,000	136,500	10	31404276	WR 0510 3 AR 60 O5V STEEL EDGE
				100	130,000	136,500	10	31404270	WR 0510 3 AR 100 O5V STEEL EDGE
6	40	5	10	60	130,000	168,400	10	*31403276*	WR 0510 6 AR 60 O5V STEEL EDGE
		8	16	46	85,000	119,300	10	31405274	WR 0816 6 AR 46 O5V STEEL EDGE
				80	85,000	119,300	10	*31405278*	WR 0816 6 AR 80 O5V STEEL EDGE
		13	20	46	50,000	73,400	10	31406274	WR 1320 6 AR 46 O5V STEEL EDGE
				80	50,000	73,400	10	31406278	WR 1320 6 AR 80 O5V STEEL EDGE
		20	25	30	33,000	47,700	10	31407273	WR 2025 6 AR 30 O5V STEEL EDGE
				60	33,000	47,700	10	31407276	WR 2025 6 AR 60 O5V STEEL EDGE



Pointed tree type STEEL EDGE

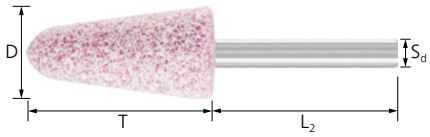
These mounted points are particularly suitable for edge grinding and for deburring work, as well as for grinding chamfers for weld seam preparation and weld dressing on contours. The pointed tree shape SP is exceptionally well-suited for machining small holes and bores.

Special features:
- Long tool life and low tool wear due to hard, dimensionally stable bond.
- Economical to use due to the high edge stability even on low-speed tool drives.
- Particularly well suited to work on edges.

S_d [mm]	L_2 [mm]	D [mm]	T [mm]	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
3	30	3	6	100	150,000	252,000	10	32102270	SP 0306 3 AR 100 O5V STEEL EDGE
		5	10	60	130,000	149,500	10	32104276	SP 0510 3 AR 60 O5V STEEL EDGE
				100	130,000	149,500	10	32104270	SP 0510 3 AR 100 O5V STEEL EDGE
		8	16	46	72,800	72,800	10	32106274	SP 0816 3 AR 46 O5V STEEL EDGE
				80	72,800	72,800	10	32106278	SP 0816 3 AR 80 O5V STEEL EDGE
6	40	3	6	100	150,000	255,500	10	32101270	SP 0306 6 AR 100 O5V STEEL EDGE
		5	10	60	130,000	190,900	10	32103276	SP 0510 6 AR 60 O5V STEEL EDGE
				100	130,000	190,900	10	32103270	SP 0510 6 AR 100 O5V STEEL EDGE
		8	16	46	85,000	119,300	10	32105274	SP 0816 6 AR 46 O5V STEEL EDGE
				80	85,000	119,300	10	32105278	SP 0816 6 AR 80 O5V STEEL EDGE
		13	20	46	50,000	73,400	10	32107274	SP 1320 6 AR 46 O5V STEEL EDGE
				80	50,000	73,400	10	32107278	SP 1320 6 AR 80 O5V STEEL EDGE
		20	32	30	33,000	47,700	10	32109273	SP 2032 6 AR 30 O5V STEEL EDGE
				60	33,000	47,700	10	32109276	SP 2032 6 AR 60 O5V STEEL EDGE
			50	30	30,500	30,500	10	32111273	SP 2050 6 AR 30 O5V STEEL EDGE
		25	40	30	26,000	35,000	10	32114273	SP 2540 6 AR 30 O5V STEEL EDGE

Discontinued product

Mounted points
For edge grinding on steel and cast steel

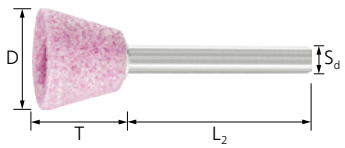


STEEL EDGE, tapered type

These mounted points are particularly suitable for edge grinding and for deburring work, as well as for grinding chamfers for weld seam preparation and weld dressing on contours. The conical shape KE is designed for a comfortable working position when smoothing out a ridge on a surface.

Special features:
- Long tool life and low tool wear due to hard, dimensionally stable bond.
- Economical to use due to the high edge stability even on low-speed tool drives.
- Particularly well suited to work on edges.

S_d [mm]	L_2 [mm]	D [mm]	T [mm]	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
3	30	10	10	46	65,000	95,400	10	32202274	KE 1010 3 AR 46 O5V STEEL EDGE
6	40	10	10	46	65,000	95,400	10	*32201274*	KE 1010 6 AR 46 O5V STEEL EDGE
			25	46	65,000	95,400	10	32209274	KE 1025 6 AR 46 O5V STEEL EDGE
				80	65,000	95,400	10	32209278	KE 1025 6 AR 80 O5V STEEL EDGE
		13	13	46	50,000	73,400	10	*32203274*	KE 1313 6 AR 46 O5V STEEL EDGE
		16	16	30	42,000	59,600	10	*32204273*	KE 1616 6 AR 30 O5V STEEL EDGE
				60	42,000	59,600	10	32204276	KE 1616 6 AR 60 O5V STEEL EDGE
			45	46	42,000	52,000	10	32210274	KE 1645 6 AR 46 O5V STEEL EDGE
				80	42,000	52,000	10	32210278	KE 1645 6 AR 80 O5V STEEL EDGE
		20	20	30	33,000	47,700	10	32205273	KE 2020 6 AR 30 O5V STEEL EDGE
				60	33,000	47,700	10	*32205276*	KE 2020 6 AR 60 O5V STEEL EDGE
			32	30	33,000	47,700	10	32208273	KE 2032 6 AR 30 O5V STEEL EDGE
				60	33,000	47,700	10	32208276	KE 2032 6 AR 60 O5V STEEL EDGE
			40	30	33,000	47,700	10	32212273	KE 2040 6 AR 30 O5V STEEL EDGE
				60	33,000	47,700	10	32212276	KE 2040 6 AR 60 O5V STEEL EDGE
		25	25	30	26,000	38,100	10	32206273	KE 2525 6 AR 30 O5V STEEL EDGE
				60	26,000	38,100	10	32206276	KE 2525 6 AR 60 O5V STEEL EDGE
			45	30	26,000	34,000	10	32211273	KE 2545 6 AR 30 O5V STEEL EDGE
				60	26,000	34,000	10	32211276	KE 2545 6 AR 60 O5V STEEL EDGE
			70	30	20,400	20,400	10	32214273	KE 2570 6 AR 30 O5V STEEL EDGE
		32	32	24	21,000	29,800	5	32207272	KE 3232 6 AR 24 O5V STEEL EDGE
				46	21,000	29,800	5	32207274	KE 3232 6 AR 46 O5V STEEL EDGE
8	40	32	50	24	21,000	29,800	5	32216272	KE 3250 8 AR 24 O5V STEEL EDGE



STEEL EDGE cups

These mounted points are particularly suitable for edge grinding and for deburring work, as well as for grinding chamfers for weld seam preparation and weld dressing on contours. The cup shape TO is ideal for work on profiles, planar surfaces and ledges, without the cylindrical surface being damaged.

Special features:
- Long tool life and low tool wear due to hard, dimensionally stable bond.
- Economical to use due to the high edge stability even on low-speed tool drives.
- Particularly well suited to work on edges.

S_d [mm]	L_2 [mm]	D [mm]	T [mm]	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
6	40	20	16	30	33,000	47,700	10	32901273	TO 2016 6 AR 30 O5V STEEL EDGE
				60	33,000	47,700	10	32901276	TO 2016 6 AR 60 O5V STEEL EDGE
		25	20	30	26,000	38,100	10	*32902273*	TO 2520 6 AR 30 O5V STEEL EDGE

Continued on next page

Discontinued product

Mounted points
For edge grinding on steel and cast steel

PFERD TOOLS

S_d [mm]	L_2 [mm]	D [mm]	T [mm]	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
6	40	32	25	24	21,000	29,800	5	32903272	TO 3225 6 AR 24 O5V STEEL EDGE
				46	21,000	29,800	5	32903274	TO 3225 6 AR 46 O5V STEEL EDGE

Series A STEEL EDGE

These mounted points are particularly suitable for edge grinding and for deburring work, as well as for grinding chamfers for weld seam preparation and weld dressing on a wide range of different contours.

Special features:
- Long tool life and low tool wear due to hard, dimensionally stable bond.
- Economical to use due to the high edge stability even on low-speed tool drives.
- Particularly well suited to work on edges.

S_d [mm]	L_2 [mm]	USA type	D [mm]	T [mm]	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
6	40	A 1	19	64	30	30,400	30,400	10	35501273	A 1 6 AR 30 O5V STEEL EDGE
		A 2	25	32	30	26,000	37,500	10	35502273	A 2 6 AR 30 O5V STEEL EDGE
		A 3	25	70	30	18,600	18,600	10	35503273	A 3 6 AR 30 O5V STEEL EDGE
		A 4	32	32	30	21,000	30,000	5	35504273	A 4 6 AR 30 O5V STEEL EDGE
		A 5	19	29	30	35,000	49,900	10	35505273	A 5 6 AR 30 O5V STEEL EDGE
		A 6	19	29	30	35,000	49,900	10	35506273	A 6 6 AR 30 O5V STEEL EDGE
		A 11	22	50	30	27,600	27,600	10	35511273	A 11 6 AR 30 O5V STEEL EDGE
		A 12	17	32	30	40,000	54,500	10	35512273	A 12 6 AR 30 O5V STEEL EDGE
		A 14	17	22	30	40,000	54,500	10	35514273	A 14 6 AR 30 O5V STEEL EDGE
		A 15	6	27	60	100,000	112,900	10	35515296	A 15 6 AR 60 O5V STEEL EDGE
					100	100,000	112,900	10	35515290	A 15 6 AR 100 O5V STEEL EDGE
		A 21	25	25	30	26,000	37,500	10	35521273	A 21 6 AR 30 O5V STEEL EDGE
		A 24	6	19	60	100,000	117,400	10	35524276	A 24 6 AR 60 O5V STEEL EDGE
					100	100,000	117,400	10	35524270	A 24 6 AR 100 O5V STEEL EDGE
		A 25	25	25	30	26,000	37,500	10	35525273	A 25 6 AR 30 O5V STEEL EDGE
		A 26	16	16	30	42,000	60,000	10	35526273	A 26 6 AR 30 O5V STEEL EDGE
		A 34	38	10	30	18,000	25,000	5	35534273	A 34 6 AR 30 O5V STEEL EDGE
		A 36	41	10	60	16,000	23,100	5	35536276	A 36 6 AR 60 O5V STEEL EDGE
		A 37	32	6	60	21,000	30,000	5	35537276	A 37 6 AR 60 O5V STEEL EDGE
6.35	40	A 1	19	64	30	33,500	33,500	10	35001273	A 1 6,3 AR 30 O5V STEEL EDGE
		A 2	25	32	30	26,000	37,500	10	35002273	A 2 6,3 AR 30 O5V STEEL EDGE
		A 3	25	70	30	18,600	18,600	10	35003273	A 3 6,3 AR 30 O5V STEEL EDGE
		A 4	32	32	30	21,000	30,000	5	35004273	A 4 6,3 AR 30 O5V STEEL EDGE
		A 5	19	29	30	35,000	49,900	10	35005273	A 5 6,3 AR 30 O5V STEEL EDGE
		A 11	22	50	30	30,400	30,400	10	35011273	A 11 6,3 AR 30 O5V STEEL EDGE
		A 12	17	32	30	40,000	54,500	10	35012273	A 12 6,3 AR 30 O5V STEEL EDGE
		A 15	6	27	60	100,000	112,900	10	*35015296*	A 15 6,3 AR 60 O5V STEEL EDGE
		A 24	6	19	60	100,000	117,400	10	35024276	A 24 6,3 AR 60 O5V STEEL EDGE
		A 25	25	25	30	26,000	37,500	10	35025273	A 25 6,3 AR 30 O5V STEEL EDGE

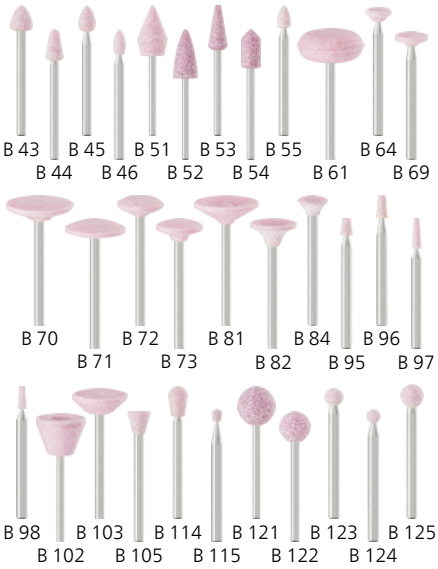
Continued on next page

Discontinued product

Mounted points
For edge grinding on steel and cast steel

PFERD TOOLS

S_d [mm]	L_2 [mm]	USA type	D [mm]	T [mm]	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
6.35	40	A 36	41	10	60	16,000	23,100	5	*35036276*	A 36 6,3 AR 60 O5V STEEL EDGE
		A 37	32	6	60	21,000	30,000	5	*35037276*	A 37 6,3 AR 60 O5V STEEL EDGE



Series B STEEL EDGE

These mounted points are particularly suitable for edge grinding and for deburring work, as well as for grinding chamfers for weld seam preparation and weld dressing on a wide range of different contours on smaller or more delicate components.

Special features:

- Long tool life and low tool wear due to hard, dimensionally stable bond.
- Economical to use due to the high edge stability even on low-speed tool drives.
- Particularly well suited to work on edges.

S_d [mm]	L_2 [mm]	USA type	D [mm]	T [mm]	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
3	30	B 43	6	8	100	100,000	149,200	10	35603270	B 43 3 AR 100 O5V STEEL EDGE
		B 44	6	10	100	100,000	141,100	10	35604270	B 44 3 AR 100 O5V STEEL EDGE
		B 45	5	8	100	130,000	181,900	10	35605270	B 45 3 AR 100 O5V STEEL EDGE
		B 46	3	8	100	150,000	267,100	10	35606270	B 46 3 AR 100 O5V STEEL EDGE
		B 51	11	19	80	60,000	63,600	10	35611278	B 51 3 AR 80 O5V STEEL EDGE
		B 52	10	19	46	65,000	66,200	10	35612274	B 52 3 AR 46 O5V STEEL EDGE
					80	65,000	66,200	10	35612278	B 52 3 AR 80 O5V STEEL EDGE
		B 53	6	16	60	100,000	149,200	10	35613276	B 53 3 AR 60 O5V STEEL EDGE
					100	100,000	149,200	10	35613270	B 53 3 AR 100 O5V STEEL EDGE
		B 54	6	13	60	100,000	101,500	10	35614276	B 54 3 AR 60 O5V STEEL EDGE
					100	100,000	101,500	10	35614270	B 54 3 AR 100 O5V STEEL EDGE
		B 55	3	6	100	150,000	257,000	10	35615270	B 55 3 AR 100 O5V STEEL EDGE
		B 61	19	8	80	35,000	45,000	10	*35621278*	B 61 3 AR 80 O5V STEEL EDGE
		B 64	6	2	100	100,000	149,200	10	*35624270*	B 64 3 AR 100 O5V STEEL EDGE
		B 69	8	2	100	85,000	120,800	10	*35629270*	B 69 3 AR 100 O5V STEEL EDGE
		B 70	19	3	100	35,000	49,900	10	35630270	B 70 3 AR 100 O5V STEEL EDGE
		B 71	16	2	100	42,000	60,000	10	35631270	B 71 3 AR 100 O5V STEEL EDGE
		B 72	13	3	100	50,000	75,100	10	35632270	B 72 3 AR 100 O5V STEEL EDGE
		B 73	13	3	100	50,000	75,100	10	35633270	B 73 3 AR 100 O5V STEEL EDGE
		B 81	19	8	100	35,000	49,900	10	35641270	B 81 3 AR 100 O5V STEEL EDGE
		B 82	13	6	100	50,000	75,100	10	*35642270*	B 82 3 AR 100 O5V STEEL EDGE
		B 95	3	5	100	150,000	260,300	10	*35655270*	B 95 3 AR 100 O5V STEEL EDGE
		B 96	3	6	100	150,000	236,100	10	35656270	B 96 3 AR 100 O5V STEEL EDGE
		B 97	2	10	100	107,300	107,300	10	35657270	B 97 3 AR 100 O5V STEEL EDGE
		B 98	2	6	100	150,000	168,300	10	35658270	B 98 3 AR 100 O5V STEEL EDGE
		B 102	16	13	80	42,000	46,400	10	*35662278*	B 102 3 AR 80 O5V STEEL EDGE
		B 103	16	5	80	42,000	60,000	10	35663278	B 103 3 AR 80 O5V STEEL EDGE
		B 105	6	6	100	100,000	149,200	10	35665270	B 105 3 AR 100 O5V STEEL EDGE
		B 114	6	10	100	100,000	136,900	10	35674270	B 114 3 AR 100 O5V STEEL EDGE

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Discontinued product

Mounted points
For edge grinding on steel and cast steel

PFERD TOOLS

S_d [mm]	L_2 [mm]	USA type	D [mm]	T [mm]	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
3	30	B 121	13	13	46	50,000	56,200	10	35681274	B 121 3 AR 46 O5V STEEL EDGE
		B 122	10	10	46	65,000	90,200	10	35682274	B 122 3 AR 46 O5V STEEL EDGE
					80	65,000	90,200	10	35682278	B 122 3 AR 80 O5V STEEL EDGE
		B 123	5	5	100	130,000	198,900	10	35683270	B 123 3 AR 100 O5V STEEL EDGE
		B 124	3	3	100	150,000	291,800	10	35684270	B 124 3 AR 100 O5V STEEL EDGE
		B 125	6	6	100	100,000	149,200	10	35685270	B 125 3 AR 100 O5V STEEL EDGE

Mounted point set 2002 STEEL EDGE

This set is particularly suitable for edge grinding and for deburring work, as well as for grinding chamfers for weld seam preparation and weld dressing on contours. It contains 15 small mounted points in the most common shapes and dimensions for finishing work.

Contents:
Contains two each of the following mounted points: 5 x 10 mm, 8 x 10 mm, 16 x 4 mm in cylindrical shape; and one each of the following mounted points: 4 x 8 mm, 6 x 13 mm, 8 x 2 mm, 10 x 13 mm, 13 x 3 mm in cylindrical shape, 5 x 10 mm in cylindrical shape with radius end, in ball shape with dia. 5 mm, 3 x 6 mm and 8 x 16 mm in pointed tree shape.

Special features:
- Long tool life and low tool wear due to hard, dimensionally stable bond.
- Economical to use due to the high edge stability even on low-speed tool drives.
- Particularly well suited to work on edges.

S_d [mm]	Grit size		Item no.	Designation
3	fine	1	33920231	2002 O F STEEL EDGE

Mounted point set 2001 STEEL EDGE

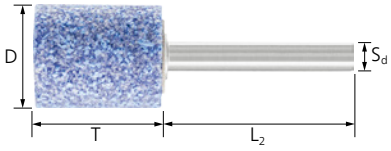
This set is particularly suitable for edge grinding and for deburring work, as well as for grinding chamfers for weld seam preparation and weld dressing on contours. It contains 10 mounted points in the most common shapes and dimensions.

Contents:
Contains one each of the following mounted points: in cylindrical shape 10 x 13 mm, 13 x 20 mm, 20 x 6 mm, 20 x 13 mm, 20 x 25 mm, in ball shape dia. 16 mm, in cylindrical shape with radius end 20 x 25 mm, in conical shape 20 x 20 mm, 20 x 32 mm and in pointed tree shape 13 x 20 mm.

Special features:
- Long tool life and low tool wear due to hard, dimensionally stable bond.
- Economical to use due to the high edge stability even on low-speed tool drives.
- Particularly well suited to work on edges.

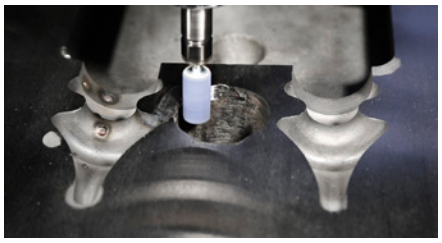
S_d [mm]	Grit size		Item no.	Designation
6	coarse	1	33920131	2001 O G STEEL EDGE

Mounted points
For universal use on materials that are difficult to machine



TOUGH, cylindrical type

These mounted points are particularly suitable for weld dressing on repair welds, reworking on turbine blades during aircraft maintenance, and regrinding of repair welds in tool and mould-making. The cylindrical shape ZY is ideal for grinding bores, radii and contours.



Special features:
- Cool grinding as the grain mix is easy to break down.
- High stock removal rates and very good tool life.
- Constant stock removal rates thanks to the self-sharpening qualities of the ceramic oxide grain.

S_d [mm]	L_2 [mm]	D [mm]	T [mm]	Grit size	USA type	Opt. RPM	Max. RPM		Item no.	Designation
3	45	1	5	320	-	104,200	104,200	10	31191340	ZY 0105 3 AWCO 320 J5V TOUGH
	44	1.5	8	320	-	104,700	104,700	10	31192340	ZY 1,508 3 AWCO 320 J5V TOUGH
		1.7	8	320	-	112,300	112,300	10	31193340	ZY 1,708 3 AWCO 320 J5V TOUGH
	30	2	5	80	W 141	150,000	201,800	10	31100340	ZY 0205 3 AWCO 80 J5V TOUGH
				100	W 141	150,000	201,800	10	31100350	ZY 0205 3 AWCO 100 J5V TOUGH
		3	6	60	W 144	150,000	206,100	10	31103135	ZY 0306 3 AWCO 60 J5V TOUGH
				80	W 144	150,000	206,100	10	31103140	ZY 0306 3 AWCO 80 J5V TOUGH
				100	W 144	150,000	206,100	10	31103145	ZY 0306 3 AWCO 100 J5V TOUGH
		4	8	60	-	150,000	175,100	10	31105135	ZY 0408 3 AWCO 60 J5V TOUGH
				80	-	150,000	175,100	10	31105140	ZY 0408 3 AWCO 80 J5V TOUGH
				100	-	150,000	175,100	10	31105145	ZY 0408 3 AWCO 100 J5V TOUGH
		5	10	60	W 153	130,700	130,700	10	31107135	ZY 0510 3 AWCO 60 J5V TOUGH
				80	W 153	130,700	130,700	10	31107140	ZY 0510 3 AWCO 80 J5V TOUGH
				100	W 153	130,700	130,700	10	31107145	ZY 0510 3 AWCO 100 J5V TOUGH
		6	13	46	W 163	93,600	93,600	10	31110130	ZY 0613 3 AWCO 46 J5V TOUGH
				60	W 163	93,600	93,600	10	31110138	ZY 0613 3 AWCO 60 J5V TOUGH
				80	W 163	93,600	93,600	10	31110140	ZY 0613 3 AWCO 80 J5V TOUGH
				100	W 163	93,600	93,600	10	31110145	ZY 0613 3 AWCO 100 J5V TOUGH
		8	10	46	W 169	87,600	87,600	10	31112030	ZY 0810 3 AWCO 46 J5V TOUGH
			16	46	-	61,000	61,000	10	31114130	ZY 0816 3 AWCO 46 J5V TOUGH
				60	-	61,000	61,000	10	31114132	ZY 0816 3 AWCO 60 J5V TOUGH
				80	-	61,000	61,000	10	31114135	ZY 0816 3 AWCO 80 J5V TOUGH
		10	13	80	W 176	58,400	58,400	10	31116230	ZY 1013 3 AWCO 80 J5V TOUGH
		13	3	60	W 182	65,000	73,400	10	31311376	ZY 1303 3 AWCO 60 J5V TOUGH
		20	6	46	W 201	45,000	47,700	10	31317370	ZY 2006 3 AWCO 46 J5V TOUGH
				60	W 201	45,000	47,700	10	31317376	ZY 2006 3 AWCO 60 J5V TOUGH
6	40	5	10	100	W 153	150,000	157,800	10	*31106230*	ZY 0510 6 AWCO 100 J5V TOUGH
		8	16	46	-	100,000	119,300	10	31114136	ZY 0816 6 AWCO 46 J5V TOUGH
				80	-	100,000	119,300	10	31114140	ZY 0816 6 AWCO 80 J5V TOUGH
		10	13	46	W 176	85,000	95,400	10	31115336	ZY 1013 6 AWCO 46 J5V TOUGH
				80	W 176	85,000	95,400	10	31115340	ZY 1013 6 AWCO 80 J5V TOUGH
			20	46	-	85,000	95,400	10	31118336	ZY 1020 6 AWCO 46 J5V TOUGH
				80	-	85,000	95,400	10	31118340	ZY 1020 6 AWCO 80 J5V TOUGH
		13	25	46	W 187	65,000	66,000	10	31125336	ZY 1325 6 AWCO 46 J5V TOUGH
				80	W 187	65,000	66,000	10	31125340	ZY 1325 6 AWCO 80 J5V TOUGH
		16	20	30	W 195	55,000	59,600	10	*31126330*	ZY 1620 6 AWCO 30 J5V TOUGH
				46	W 195	55,000	59,600	10	31126336	ZY 1620 6 AWCO 46 J5V TOUGH
				60	W 195	55,000	59,600	10	31126338	ZY 1620 6 AWCO 60 J5V TOUGH
			32	30	-	51,200	51,200	10	31127330	ZY 1632 6 AWCO 30 J5V TOUGH
				46	-	51,200	51,200	10	31127336	ZY 1632 6 AWCO 46 J5V TOUGH
				60	-	51,200	51,200	10	31127338	ZY 1632 6 AWCO 60 J5V TOUGH

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Discontinued product

Mounted points
For universal use on materials that are difficult to machine

PFERD TOOLS

S_d [mm]	L_2 [mm]	D [mm]	T [mm]	Grit size	USA type	Opt. RPM	Max. RPM		Item no.	Designation
6	40	20	25	30	W 205	45,000	47,700	10	31131330	ZY 2025 6 AWCO 30 J5V TOUGH
				46	W 205	45,000	47,700	10	31131336	ZY 2025 6 AWCO 46 J5V TOUGH
				60	W 205	45,000	47,700	10	31131338	ZY 2025 6 AWCO 60 J5V TOUGH
			40	30	W 207	32,400	32,400	10	31133259	ZY 2040 6 AWCO 30 J5V TOUGH
				46	W 207	32,400	32,400	10	31133260	ZY 2040 6 AWCO 46 J5V TOUGH
				60	W 207	32,400	32,400	10	31133263	ZY 2040 6 AWCO 60 J5V TOUGH
		25	25	30	W 220	35,000	38,100	10	31134130	ZY 2525 6 AWCO 30 J5V TOUGH
		32	16	46	-	27,000	29,800	5	*31326130*	ZY 3216 6 AWCO 46 J5V TOUGH
			32	24	W 230	25,700	25,700	5	31136330	ZY 3232 6 AWCO 24 J5V TOUGH
				46	W 230	25,700	25,700	5	31136336	ZY 3232 6 AWCO 46 J5V TOUGH
		40	10	46	W 236	22,000	23,800	5	31328846	ZY 4010 6 AWCO 46 J5V TOUGH
				60	W 236	22,000	23,800	5	31328860	ZY 4010 6 AWCO 60 J5V TOUGH
			20	46	-	22,000	23,800	5	31138036	ZY 4020 6 AWCO 46 J5V TOUGH

TOUGH, ball type

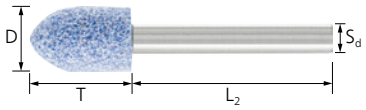
These mounted points are particularly suitable for weld dressing on repair welds, reworking on turbine blades during aircraft maintenance, and regrinding of repair welds in tool and mould-making. The ball shape KU is often used for contour grinding and backside deburring.

Special features:
- Cool grinding as the grain mix is easy to break down.
- High stock removal rates and very good tool life.
- Constant stock removal rates thanks to the self-sharpening qualities of the ceramic oxide grain.

S_d [mm]	L_2 [mm]	D [mm]	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
3	30	3	60	150,000	300,200	10	31702260	KU 03 3 AWCO 60 J5V TOUGH
			80	150,000	300,200	10	31702280	KU 03 3 AWCO 80 J5V TOUGH
		6	60	140,000	159,100	10	31704530	KU 06 3 AWCO 60 J5V TOUGH
			80	140,000	159,100	10	31704540	KU 06 3 AWCO 80 J5V TOUGH
			100	140,000	159,100	10	31704545	KU 06 3 AWCO 100 J5V TOUGH
		8	46	100,000	116,200	10	*31705335*	KU 08 3 AWCO 46 J5V TOUGH
			80	100,000	116,200	10	31705340	KU 08 3 AWCO 80 J5V TOUGH
			100	100,000	116,200	10	31705345	KU 08 3 AWCO 100 J5V TOUGH
6	40	13	46	65,000	73,400	10	*31706336*	KU 13 6 AWCO 46 J5V TOUGH
			60	65,000	73,400	10	*31706338*	KU 13 6 AWCO 60 J5V TOUGH
			80	65,000	73,400	10	*31706340*	KU 13 6 AWCO 80 J5V TOUGH

Discontinued product

Mounted points
For universal use on materials that are difficult to machine

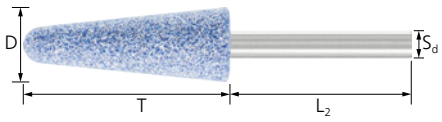


TOUGH, tree type

These mounted points are particularly suitable for weld dressing on repair welds, reworking on turbine blades during aircraft maintenance, and regrinding of repair welds in tool and mould-making. The pointed tree shape SP is exceptionally well-suited for machining small holes and bores.

Special features:
- Cool grinding as the grain mix is easy to break down.
- High stock removal rates and very good tool life.
- Constant stock removal rates thanks to the self-sharpening qualities of the ceramic oxide grain.

S_d [mm]	L_2 [mm]	D [mm]	T [mm]	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
3	30	3	6	60	150,000	252,000	10	32102410	SP 0306 3 AWCO 60 J5V TOUGH
				80	150,000	252,000	10	32102420	SP 0306 3 AWCO 80 J5V TOUGH
				100	150,000	252,000	10	32102430	SP 0306 3 AWCO 100 J5V TOUGH
		4	8	80	150,000	195,400	10	32102620	SP 0408 3 AWCO 80 J5V TOUGH
				100	150,000	195,400	10	*32102630*	SP 0408 3 AWCO 100 J5V TOUGH
		5	10	100	149,500	149,500	10	32140230	SP 0510 3 AWCO 100 J5V TOUGH
		6	10	60	134,100	134,100	10	32104410	SP 0610 3 AWCO 60 J5V TOUGH
			13	46	108,100	108,100	10	32104535	SP 0613 3 AWCO 46 J5V TOUGH
				80	108,100	108,100	10	32104540	SP 0613 3 AWCO 80 J5V TOUGH
				100	108,100	108,100	10	*32104545*	SP 0613 3 AWCO 100 J5V TOUGH
		8	16	46	72,800	72,800	10	32105335	SP 0816 3 AWCO 46 J5V TOUGH
				60	72,800	72,800	10	32105338	SP 0816 3 AWCO 60 J5V TOUGH
				80	72,800	72,800	10	32105340	SP 0816 3 AWCO 80 J5V TOUGH
				100	72,800	72,800	10	32105345	SP 0816 3 AWCO 100 J5V TOUGH
6	40	13	20	46	65,000	73,400	10	32107336	SP 1320 6 AWCO 46 J5V TOUGH
				60	65,000	73,400	10	32107338	SP 1320 6 AWCO 60 J5V TOUGH
				80	65,000	73,400	10	32107340	SP 1320 6 AWCO 80 J5V TOUGH



TOUGH, tapered type

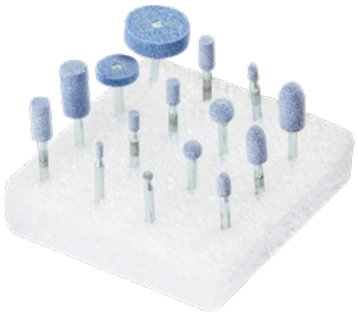
These mounted points are particularly suitable for weld dressing on repair welds, reworking on turbine blades during aircraft maintenance, and regrinding of repair welds in tool and mould-making. The conical shape KE is designed for a comfortable working position during surface grinding and grinding of chamfers.

Special features:
- Cool grinding as the grain mix is easy to break down.
- High stock removal rates and very good tool life.
- Constant stock removal rates thanks to the self-sharpening qualities of the ceramic oxide grain.

S_d [mm]	L_2 [mm]	D [mm]	T [mm]	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
6	40	10	25	46	85,000	95,400	10	32209336	KE 1025 6 AWCO 46 J5V TOUGH
				60	85,000	95,400	10	32209338	KE 1025 6 AWCO 60 J5V TOUGH
		16	45	46	52,000	52,000	10	32210336	KE 1645 6 AWCO 46 J5V TOUGH
				60	52,000	52,000	10	32210338	KE 1645 6 AWCO 60 J5V TOUGH

Discontinued product

Mounted points
For universal use on materials that are difficult to machine



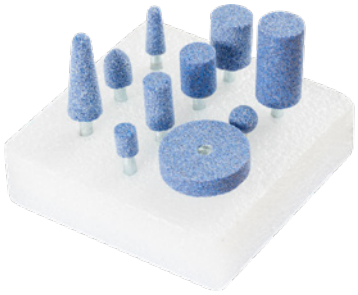
Mounted point set 2002 TOUGH

This set is particularly suitable for weld dressing on repair welds, reworking on turbine blades during aircraft maintenance, and regrinding of repair welds in tool and mould-making. It contains 15 small mounted points with 3 mm shank diameter in the most common shapes for finishing work.

Contents:
Contains one each of the following mounted points: in cylindrical shape 2 x 5 mm, 3 x 6 mm, 4 x 8 mm, 5 x 10 mm, 6 x 13 mm, ZY 8 x 16 mm, 13 x 3 mm, 20 x 6 mm, in ball shape dia. 3 mm, dia. 6 mm, dia. 8 mm, in pointed tree shape 3 x 6 mm, 4 x 8 mm, 6 x 13 mm, 8 x 16 mm.

Special features:
- Cool grinding as the grain mix is easy to break down.
- High stock removal rates and very good tool life.
- Constant stock removal rates thanks to the self-sharpening qualities of the ceramic oxide grain.

S_d [mm]	Grit size		Item no.	Designation
3	fine	1	33920235	2002 J F TOUGH



Mounted point set 2001 TOUGH

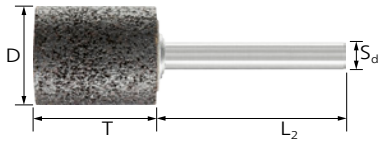
This set is particularly suitable for weld dressing on repair welds, reworking on turbine blades during aircraft maintenance, and regrinding of repair welds in tool and mould-making. It contains 10 mounted points with 6 mm shank diameter in the most common shapes and dimensions.

Contents:
Contains one each of the following mounted points: in cylindrical shape 10 x 13 mm, 13 x 25 mm, 16 x 20 mm, 20 x 25 mm, 20 x 40 mm, 40 x 10 mm, in ball shape dia. 13, in pointed tree shape 13 x 20 mm and in conical shape 10 x 25 mm and 16 x 45 mm.

Special features:
- Cool grinding as the grain mix is easy to break down.
- High stock removal rates and very good tool life.
- Constant stock removal rates thanks to the self-sharpening qualities of the ceramic oxide grain.

S_d [mm]	Grit size		Item no.	Designation
6	coarse	1	33920135	2001 J G TOUGH

Mounted points
For universal use on stainless steel (INOX)

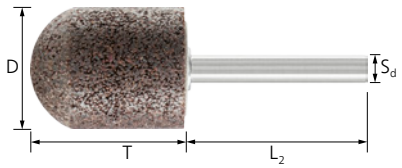


INOX cylindrical type

These mounted points are used for rough grinding of stainless steel (INOX) castings and grinding of moulded parts made of high-temperature-resistant alloys. The cylindrical shape ZY is ideal for grinding bores, radii and contours.

Special features:
- Due to cool grinding, particularly suitable for use on temperature-sensitive materials.
- High level of grinding comfort due to low-vibration grinding.

S_d [mm]	L_2 [mm]	D [mm]	T [mm]	Grit size	USA type	Opt. RPM	Max. RPM		Item no.	Designation
6	40	8	16	46	-	100,000	119,300	10	31113744	ZY 0816 6 ADW 46 L6B INOX
		10	20	46	W 177	90,000	95,400	10	31118744	ZY 1020 6 ADW 46 L6B INOX
			32	46	W 179	62,800	62,800	10	31120744	ZY 1032 6 ADW 46 L6B INOX
		16	32	30	-	51,200	51,200	10	31127743	ZY 1632 6 ADW 30 L6B INOX
		20	25	30	W 205	45,000	47,700	10	31131743	ZY 2025 6 ADW 30 L6B INOX
				60	W 205	45,000	47,700	10	31131746	ZY 2025 6 ADW 60 L6B INOX
			40	30	W 207	32,400	32,400	10	31133743	ZY 2040 6 ADW 30 L6B INOX
		25	13	30	W 218	37,000	38,100	10	31323743	ZY 2513 6 ADW 30 L6B INOX
			25	30	W 220	37,000	38,100	10	31134743	ZY 2525 6 ADW 30 L6B INOX
			32	30	-	32,900	32,900	10	31135743	ZY 2532 6 ADW 30 L6B INOX
		32	16	24	-	29,000	29,800	5	31326742	ZY 3216 6 ADW 24 L6B INOX
			40	24	W 231	20,300	20,300	5	31137742	ZY 3240 6 ADW 24 L6B INOX
		40	6	60	W 235	23,000	23,800	5	31375746	ZY 4006 6 ADW 60 L6B INOX
			10	30	W 236	23,000	23,800	5	31328743	ZY 4010 6 ADW 30 L6B INOX
			20	24	-	23,000	23,800	5	31330742	ZY 4020 6 ADW 24 L6B INOX
		50	13	30	-	19,000	19,000	5	31331743	ZY 5013 6 ADW 30 L6B INOX
			25	24	W 242	19,000	19,000	5	31332742	ZY 5025 6 ADW 24 L6B INOX
8	40	32	40	24	W 231	28,500	29,800	5	*31187742*	ZY 3240 8 ADW 24 L6B INOX
		50	40	24	W 243	19,000	19,000	5	31383742	ZY 5040 8 ADW 24 L6B INOX



INOX, cylindrical with radius end type

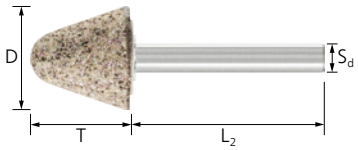
These mounted points are used for rough grinding of stainless steel (INOX) castings and grinding of moulded parts made of high-temperature-resistant alloys. The cylindrical shape with radius end WR is perfect for a variety of deburring and grinding jobs.

Special features:
- Due to cool grinding, particularly suitable for use on temperature-sensitive materials.
- High level of grinding comfort due to low-vibration grinding.

S_d [mm]	L_2 [mm]	D [mm]	T [mm]	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
6	40	25	32	30	37,000	37,300	10	31408253	WR 2532 6 ADW 30 L6B INOX

Discontinued product

Mounted points
For universal use on stainless steel (INOX)

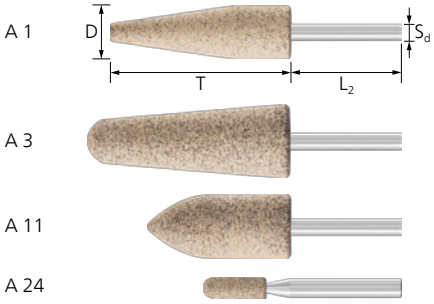


INOX, tapered type

These mounted points are used for rough grinding of stainless steel (INOX) castings and grinding of moulded parts made of high-temperature-resistant alloys. The conical shape KE is designed for a comfortable working position during surface grinding and grinding of chamfers.

Special features:
- Due to cool grinding, particularly suitable for use on temperature-sensitive materials.
- High level of grinding comfort due to low-vibration grinding.

S_d [mm]	L_2 [mm]	D [mm]	T [mm]	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
6	40	20	20	30	45,000	47,700	10	32205743	KE 2020 6 ADW 30 L6B INOX
		25	45	30	34,000	34,000	10	32211743	KE 2545 6 ADW 30 L6B INOX



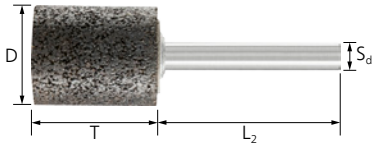
Series A INOX

These mounted points are used for rough grinding of a wide range of different contours on stainless steel (INOX) castings and grinding of moulded parts made of high-temperature-resistant alloys.

Special features:
- Due to cool grinding, particularly suitable for use on temperature-sensitive materials.
- High level of grinding comfort due to low-vibration grinding.

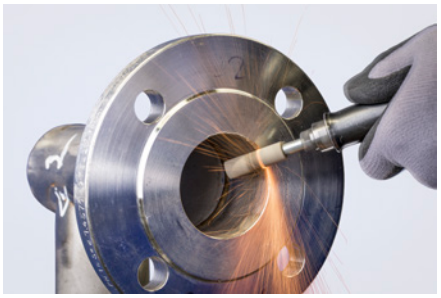
S_d [mm]	L_2 [mm]	USA type	D [mm]	T [mm]	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
6	40	A 1	19	64	60	30,400	30,400	10	35501746	A 1 6 ADW 60 L6B INOX
		A 3	25	70	60	18,600	18,600	10	35503746	A 3 6 ADW 60 L6B INOX
		A 11	22	50	60	27,600	27,600	10	35511746	A 11 6 ADW 60 L6B INOX

For edge grinding on stainless steel (INOX)



INOX EDGE, cylindrical type

Applications include weld dressing on fillet welds, removing burrs and grinding chamfers on high-temperature-resistant alloys and stainless steel components. The cylindrical shape ZY is ideal for grinding bores, radii and contours.



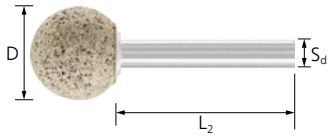
Special features:
- Due to cool grinding, particularly suitable for use on temperature-sensitive materials.
- High grinding comfort due to low-vibration grinding and high dimensional stability on edges.
- Economical to use due to the high edge stability even on low-speed tool drives.

S_d [mm]	L_2 [mm]	D [mm]	T [mm]	Grit size	USA type	Opt. RPM	Max. RPM		Item no.	Designation
6	40	8	16	46	-	100,000	119,300	10	31113614	ZY 0816 6 AN 46 N5B INOX EDGE
		10	20	46	W 177	92,000	95,400	10	31118614	ZY 1020 6 AN 46 N5B INOX EDGE
			32	46	W 179	62,800	62,800	10	31120614	ZY 1032 6 AN 46 N5B INOX EDGE
		13	25	46	W 187	66,000	66,000	10	31125614	ZY 1325 6 AN 46 N5B INOX EDGE
		16	32	30	-	51,200	51,200	10	31127613	ZY 1632 6 AN 30 N5B INOX EDGE
				60	-	51,200	51,200	10	31127616	ZY 1632 6 AN 60 N5B INOX EDGE

Continued on next page

Mounted points
For edge grinding on stainless steel (INOX)

S_d [mm]	L_2 [mm]	D [mm]	T [mm]	Grit size	USA type	Opt. RPM	Max. RPM		Item no.	Designation
6	40	16	50	30	W 197	31,300	31,300	10	31129613	ZY 1650 6 AN 30 N5B INOX EDGE
		20	8	30	-	46,000	47,700	10	*31318613*	ZY 2008 6 AN 30 N5B INOX EDGE
			25	30	W 205	46,000	47,700	10	31131613	ZY 2025 6 AN 30 N5B INOX EDGE
			40	30	W 207	32,400	32,400	10	31133613	ZY 2040 6 AN 30 N5B INOX EDGE
		25	6	46	W 216	37,000	38,100	10	31321614	ZY 2506 6 AN 46 N5B INOX EDGE
			13	30	W 218	37,000	38,100	10	31323613	ZY 2513 6 AN 30 N5B INOX EDGE
			32	30	-	32,900	32,900	10	31135613	ZY 2532 6 AN 30 N5B INOX EDGE
			40	30	W 221	26,000	26,000	10	31151613	ZY 2540 6 AN 30 N5B INOX EDGE
		32	8	30	W 226	29,000	29,800	5	31325613	ZY 3208 6 AN 30 N5B INOX EDGE
			16	24	-	29,000	29,800	5	31326612	ZY 3216 6 AN 24 N5B INOX EDGE
			20	24	W 228	29,000	29,800	5	31327612	ZY 3220 6 AN 24 N5B INOX EDGE
			32	24	W 230	25,700	25,700	5	31136612	ZY 3232 6 AN 24 N5B INOX EDGE
			40	24	W 231	20,300	20,300	5	31137612	ZY 3240 6 AN 24 N5B INOX EDGE
		40	6	46	W 235	23,000	23,800	5	31375614	ZY 4006 6 AN 46 N5B INOX EDGE
			10	30	-	23,000	23,800	5	31328613	ZY 4010 6 AN 30 N5B INOX EDGE
			20	24	-	23,000	23,800	5	31330612	ZY 4020 6 AN 24 N5B INOX EDGE
			40	24	W 238	16,200	16,200	5	31138612	ZY 4040 6 AN 24 N5B INOX EDGE
		50	8	30	-	19,000	19,000	5	31378613	ZY 5008 6 AN 30 N5B INOX EDGE
			13	30	-	19,000	19,000	5	31331613	ZY 5013 6 AN 30 N5B INOX EDGE
			25	24	W 242	19,000	19,000	5	31332612	ZY 5025 6 AN 24 N5B INOX EDGE
8	40	32	40	24	W 231	28,500	29,800	5	31187612	ZY 3240 8 AN 24 N5B INOX EDGE



INOX EDGE, ball type

Applications include weld dressing on fillet welds, removing burrs and grinding chamfers on high-temperature-resistant alloys and stainless steel components. The ball shape KU is often used for contour grinding and backside deburring.

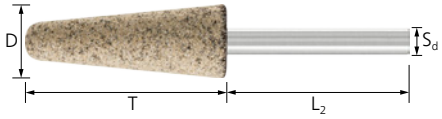
Special features:

- Due to cool grinding, particularly suitable for use on temperature-sensitive materials.
- High grinding comfort due to low-vibration grinding and high dimensional stability on edges.
- Economical to use due to the high edge stability even on low-speed tool drives.

S_d [mm]	L_2 [mm]	D [mm]	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
6	40	16	30	58,000	59,600	10	31707613	KU 16 6 AN 30 N5B INOX EDGE
		20	30	46,000	47,700	10	31708613	KU 20 6 AN 30 N5B INOX EDGE
		25	30	37,000	38,100	10	31709613	KU 25 6 AN 30 N5B INOX EDGE

Discontinued product

Mounted points
For edge grinding on stainless steel (INOX)

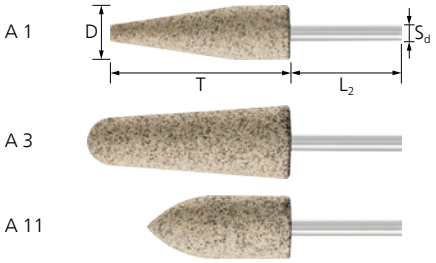


INOX EDGE, tapered type

Applications include weld dressing on fillet welds, removing burrs and grinding chamfers on high-temperature-resistant alloys and stainless steel components. The conical shape KE is designed for a comfortable working position during surface grinding and grinding of chamfers.

Special features:
- Due to cool grinding, particularly suitable for use on temperature-sensitive materials.
- High grinding comfort due to low-vibration grinding and high dimensional stability on edges.
- Economical to use due to the high edge stability even on low-speed tool drives.

S_d [mm]	L_2 [mm]	D [mm]	T [mm]	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
6	40	10	25	46	92,000	95,400	10	32209614	KE 1025 6 AN 46 N5B INOX EDGE
		16	45	46	52,000	52,000	10	32210614	KE 1645 6 AN 46 N5B INOX EDGE
		25	45	30	34,000	34,000	10	32211613	KE 2545 6 AN 30 N5B INOX EDGE
		32	32	24	29,000	29,800	5	32207612	KE 3232 6 AN 24 N5B INOX EDGE



Series A INOX EDGE

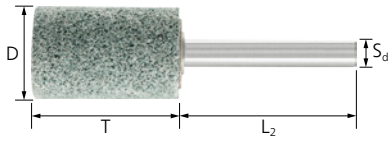
Applications include weld dressing on fillet welds, removing burrs and grinding chamfers with different contours on high-temperature resistant alloys and stainless steel components.

Special features:
- Due to cool grinding, particularly suitable for use on temperature-sensitive materials.
- High grinding comfort due to low-vibration grinding and high dimensional stability on edges.
- Economical to use due to the high edge stability even on low-speed tool drives.

S_d [mm]	L_2 [mm]	USA type	D [mm]	T [mm]	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
6	40	A 1	19	64	30	30,400	30,400	10	35501613	A 1 6 AN 30 N5B INOX EDGE
		A 3	25	70	30	18,600	18,600	10	35503613	A 3 6 AN 30 N5B INOX EDGE
		A 11	22	50	30	27,600	27,600	10	35511613	A 11 6 AN 30 N5B INOX EDGE
6.35	40	A 11	22	50	30	30,400	30,400	10	*35011613*	A 11 6,3 AN 30 N5B INOX EDGE

Discontinued product

Mounted points
For universal use on soft non-ferrous metals



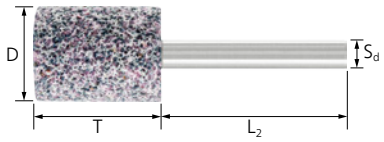
ALU cylindrical mounted points

These mounted points are used to remove burrs on cast aluminium parts and for chamfering on aluminium profiles for weld-seam preparation. The cylindrical shape ZY is ideal for grinding bores, radii and contours.

Special features:
- The special impregnation means there is no clogging when working on soft, lubricating or tough materials.
- High grinding performance and stock removal rate.

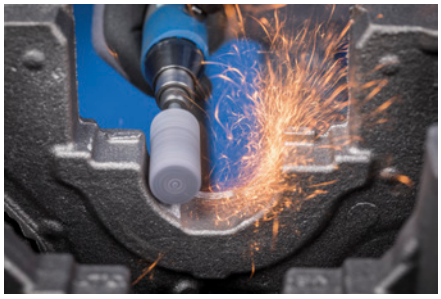
S_d [mm]	L_2 [mm]	D [mm]	T [mm]	Grit size	USA type	Opt. RPM	Max. RPM		Item no.	Designation
3	30	3	6	80	W 144	150,000	206,100	10	31103378	ZY 0306 3 CN 80 F10V ALU
		6	13	80	W 163	93,600	93,600	10	31110378	ZY 0613 3 CN 80 F10V ALU
6	40	10	13	80	W 176	45,000	95,400	10	31115408	ZY 1013 6 CN 80 F10V ALU
		13	20	80	W 186	35,000	73,400	10	31124408	ZY 1320 6 CN 80 F10V ALU
		16	20	80	W 195	30,000	59,600	10	31126408	ZY 1620 6 CN 80 F10V ALU
			32	80	-	30,000	51,200	10	31127408	ZY 1632 6 CN 80 F10V ALU
		20	32	80	W 206	24,000	41,100	10	31132408	ZY 2032 6 CN 80 F10V ALU
		32	32	80	W 230	15,000	25,700	5	31136408	ZY 3232 6 CN 80 F10V ALU
		40	20	80	-	12,000	23,800	5	31330408	ZY 4020 6 CN 80 F10V ALU

For surface grinding on grey and nodular cast iron



CAST cylindrical type

These mounted points are exceptionally well suited for cleaning workpieces and for grinding out shrinkage holes. The cylindrical shape ZY is ideal for grinding bores, radii and contours.



Special features:
- Suitable for use on surfaces and edges.
- Combined with high peripheral speeds, very well suited for surface use.
- High grinding performance and good tool life. High stock removal rates thanks to coarse grit size.

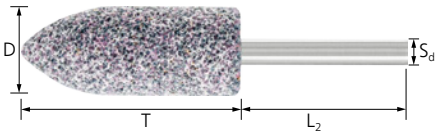
S_d [mm]	L_2 [mm]	D [mm]	T [mm]	Grit size	USA type	Opt. RPM	Max. RPM		Item no.	Designation
6	40	16	32	30	-	51,200	51,200	10	31127033	ZY 1632 6 ARN 30 K5V CAST
			50	30	W 197	31,300	31,300	10	*31129033*	ZY 1650 6 ARN 30 K5V CAST
		20	25	30	W 205	43,000	47,700	10	31131033	ZY 2025 6 ARN 30 K5V CAST
			40	30	W 207	32,400	32,400	10	31133033	ZY 2040 6 ARN 30 K5V CAST
		25	32	30	-	32,900	32,900	10	31135033	ZY 2532 6 ARN 30 K5V CAST
		32	32	24	W 230	25,700	25,700	5	31136032	ZY 3232 6 ARN 24 K5V CAST
			40	24	W 231	20,300	20,300	5	31137032	ZY 3240 6 ARN 24 K5V CAST
		40	10	30	W 236	22,000	23,800	5	31328033	ZY 4010 6 ARN 30 K5V CAST
			20	24	-	22,000	23,800	5	31330033	ZY 4020 6 ARN 24 K5V CAST
		50	8	30	-	18,000	19,000	5	31378233	ZY 5008 6 ARN 30 K5V CAST

Continued on next page

Discontinued product

Mounted points
For surface grinding on grey and nodular cast iron

S_d [mm]	L_2 [mm]	D [mm]	T [mm]	Grit size	USA type	Opt. RPM	Max. RPM		Item no.	Designation
6	40	50	13	30	-	18,000	19,000	5	31331033	ZY 5013 6 ARN 30 K5V CAST
8	40	32	40	24	W 231	27,000	29,800	5	31187032	ZY 3240 8 ARN 24 K5V CAST
		50	25	24	W 242	18,000	19,000	5	31382032	ZY 5025 8 ARN 24 K5V CAST

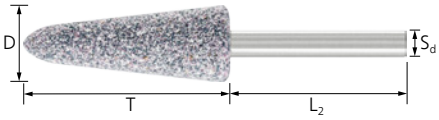


CAST, tree type

These mounted points are exceptionally well suited for cleaning workpieces and for grinding out shrinkage holes. The pointed tree shape SP is exceptionally well-suited for machining small holes and bores.

Special features:
- Suitable for use on surfaces and edges.
- Combined with high peripheral speeds, very well suited for surface use.
- High grinding performance and good tool life. High stock removal rates thanks to coarse grit size.

S_d [mm]	L_2 [mm]	D [mm]	T [mm]	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
6	40	20	50	30	30,500	30,500	10	32111233	SP 2050 6 ARN 30 K5V CAST

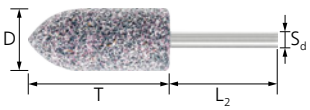


CAST, tapered type

These mounted points are exceptionally well suited for cleaning workpieces and for grinding out shrinkage holes. The conical shape KE is designed for a comfortable working position during surface grinding and grinding of chamfers.

Special features:
- Suitable for use on surfaces and edges.
- Combined with high peripheral speeds, very well suited for surface use.
- High grinding performance and good tool life. High stock removal rates thanks to coarse grit size.

S_d [mm]	L_2 [mm]	D [mm]	T [mm]	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
6	40	10	25	46	85,000	95,400	10	32209034	KE 1025 6 ARN 46 K5V CAST
		16	45	46	52,000	52,000	10	32210034	KE 1645 6 ARN 46 K5V CAST
		20	40	24	43,000	47,700	10	32212032	KE 2040 6 ARN 24 K5V CAST
8	40	32	50	24	27,000	29,800	5	32216232	KE 3250 8 ARN 24 K5V CAST



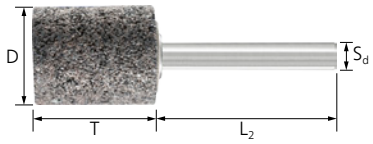
Series A CAST

These mounted points are exceptionally well suited for cleaning workpieces and for grinding out shrinkage holes in a wide range of contours.

Special features:
- Suitable for use on surfaces and edges.
- Combined with high peripheral speeds, very well suited for surface use.
- High grinding performance and good tool life. High stock removal rates thanks to coarse grit size.

S_d [mm]	L_2 [mm]	USA type	D [mm]	T [mm]	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
6	40	A 11	22	50	30	27,600	27,600	10	35511033	A 11 6 ARN 30 K5V CAST

Mounted points
For edge grinding on grey and nodular cast iron

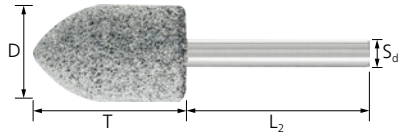


CAST EDGE cylindrical type

These mounted points are particularly good for edge grinding, for deburring and grinding out sand inclusions and metal contamination on grey and nodular cast iron. The cylindrical shape ZY is ideal for grinding bores, radii and contours.

Special features:
- Highly dimensionally stable due to the high bond content.
- Economical to use due to the high edge stability even on low-speed tool drives.

S_d [mm]	L_2 [mm]	D [mm]	T [mm]	Grit size	USA type	Opt. RPM	Max. RPM		Item no.	Designation
6	40	16	32	30	-	47,000	51,200	10	31127503	ZY 1632 6 CU 30 R5V CAST EDGE
		20	25	30	W 205	38,000	47,700	10	31131503	ZY 2025 6 CU 30 R5V CAST EDGE
			40	30	-	32,400	32,400	10	31133503	ZY 2040 6 CU 30 R5V CAST EDGE
			50	30	W 208	25,100	25,100	10	31148503	ZY 2050 6 CU 30 R5V CAST EDGE
		32	32	24	W 230	23,000	25,700	5	31136502	ZY 3232 6 CU 24 R5V CAST EDGE
		40	20	24	-	19,000	23,800	5	31330502	ZY 4020 6 CU 24 R5V CAST EDGE
8	40	32	40	24	W 231	24,000	29,800	5	31187502	ZY 3240 8 CU 24 R5V CAST EDGE
		40	40	24	W 238	19,000	23,800	5	31188502	ZY 4040 8 CU 24 R5V CAST EDGE



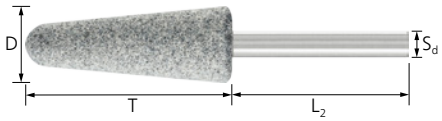
CAST EDGE, tree type

These mounted points are particularly good for edge grinding, for deburring and grinding out sand inclusions and metal contamination on grey and nodular cast iron. The pointed tree shape SP is exceptionally well-suited for machining small holes and bores.

Special features:
- Highly dimensionally stable due to the high bond content.
- Economical to use due to the high edge stability even on low-speed tool drives.

S_d [mm]	L_2 [mm]	D [mm]	T [mm]	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
6	40	20	32	30	38,000	47,700	10	32109503	SP 2032 6 CU 30 R5V CAST EDGE
			50	30	30,500	30,500	10	32111503	SP 2050 6 CU 30 R5V CAST EDGE

Mounted points
For edge grinding on grey and nodular cast iron

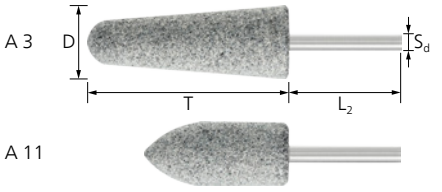


CAST EDGE, tapered type

These mounted points are particularly good for edge grinding, for deburring and grinding out sand inclusions and metal contamination on grey and nodular cast iron. The conical shape KE is designed for a comfortable working position during surface grinding and grinding of chamfers.

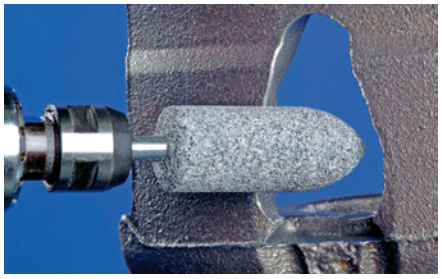
Special features:
- Highly dimensionally stable due to the high bond content.
- Economical to use due to the high edge stability even on low-speed tool drives.

S_d [mm]	L_2 [mm]	D [mm]	T [mm]	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
6	40	16	45	46	47,000	52,000	10	32210504	KE 1645 6 CU 46 R5V CAST EDGE
		20	32	30	38,000	47,700	10	32208503	KE 2032 6 CU 30 R5V CAST EDGE
		25	45	30	30,000	34,000	10	32211503	KE 2545 6 CU 30 R5V CAST EDGE



Series A CAST EDGE

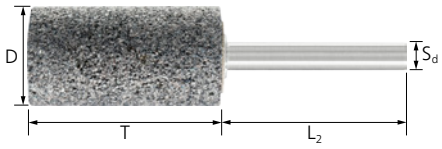
These mounted points are particularly good for edge grinding, for deburring and grinding out sand inclusions and metal contamination on a wide range of different contours on grey and nodular cast iron.



Special features:
- Highly dimensionally stable due to the high bond content.
- Economical to use due to the high edge stability even on low-speed tool drives.

S_d [mm]	L_2 [mm]	USA type	D [mm]	T [mm]	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
6	40	A 3	25	70	30	18,600	18,600	10	35503503	A 3 6 CU 30 R5V CAST EDGE
		A 11	22	50	30	27,600	27,600	10	35511503	A 11 6 CU 30 R5V CAST EDGE

For edge grinding on grey and nodular cast iron (foundries)



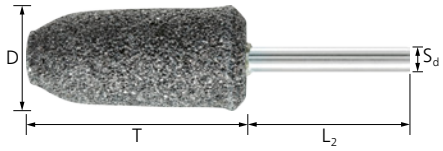
CAST EDGE cylindrical type for foundries

These mounted points are particularly good for edge grinding, for deburring and grinding out sand inclusions and metal contamination on grey and nodular cast iron. The cylindrical shape ZY is ideal for grinding bores, radii and contours.

Special features:
- Very high grinding performance and aggressiveness from the start.
- High stock removal rate in combination with a long tool life.
- Delivered in practical industrial packaging.

S_d [mm]	L_2 [mm]	D [mm]	T [mm]	Grit size	USA type	Opt. RPM	Max. RPM		Item no.	Designation
6	40	20	40	30	W 205	32,400	32,400	50	31133531	ZY 2040 6 CU 30 R5V CAST EDGE N
		25	32	30	-	30,000	32,900	50	31135531	ZY 2532 6 CU 30 R5V CAST EDGE N

Mounted points
For edge grinding on grey and nodular cast iron (foundries)

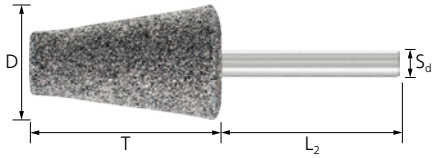


CAST EDGE, tree type for foundries

These mounted points are particularly good for edge grinding, for deburring and grinding out sand inclusions and metal contamination on grey and nodular cast iron. The pointed tree shape SP is exceptionally well-suited for machining small holes and bores.

Special features:
- Very high grinding performance and aggressiveness from the start.
- High stock removal rate in combination with a long tool life.
- Delivered in practical industrial packaging.

S_d [mm]	L_2 [mm]	D [mm]	T [mm]	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
6	40	20	50	30	14,100	14,100	50	32109531	SP 2050 6 CU 30 R5V CAST EDGE N



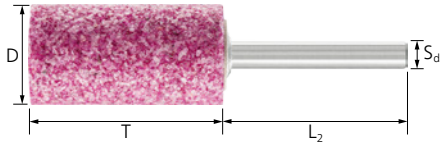
CAST EDGE tapered type for foundries

These mounted points are particularly good for edge grinding, for deburring and grinding out sand inclusions and metal contamination on grey and nodular cast iron. The conical shape KE is designed for a comfortable working position during surface grinding and grinding of chamfers.

Special features:
- Very high grinding performance and aggressiveness from the start.
- High stock removal rate in combination with a long tool life.
- Delivered in practical industrial packaging.

S_d [mm]	L_2 [mm]	D [mm]	T [mm]	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
6	40	16	45	46	24,000	24,000	50	*32210531*	KE 1645 6 CU 46 R5V CAST EDGE N
		20	40	30	20,900	20,900	50	32212531	KE 2040 6 CU 30 R5V CAST EDGE N
8	40	35	50	24	15,600	15,600	50	32216512	KE 3550 8 CU 24 R5V CAST EDGE N

For universal use on cast steel (foundries)



CAST STEEL cylindrical type for foundries

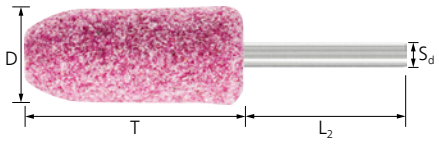
These mounted points are ideal for universal use in harsh conditions and for removing burrs on cast steel parts and for weld dressing of intersections after separating risers. The cylindrical shape ZY is ideal for grinding bores, radii and contours.

Special features:
- Very high grinding performance and aggressiveness from the start.
- High stock removal rate in combination with a long tool life.
- Delivered in practical industrial packaging.

S_d [mm]	L_2 [mm]	D [mm]	T [mm]	Grit size	USA type	Opt. RPM	Max. RPM		Item no.	Designation
6	40	20	40	30	W 207	32,400	32,400	50	31133231	ZY 2040 6 ADR 30 O5V CAST STEEL
		25	32	30	-	25,000	32,900	50	31135231	ZY 2532 6 ADR 30 O5V CAST STEEL

Discontinued product

Mounted points
For universal use on cast steel (foundries)

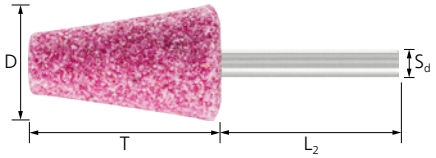


CAST STEEL, tree type for foundries

These mounted points are ideal for universal use in harsh conditions and for removing burrs on cast steel parts and for weld dressing of intersections after separating risers. The pointed tree shape SP is exceptionally well-suited for machining small holes and bores.

Special features:
- Very high grinding performance and aggressiveness from the start.
- High stock removal rate in combination with a long tool life.
- Delivered in practical industrial packaging.

S_d [mm]	L_2 [mm]	D [mm]	T [mm]	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
6	40	20	50	30	14,100	14,100	50	32111231	SP 2050 6 ADR 30 O5V CAST STEEL



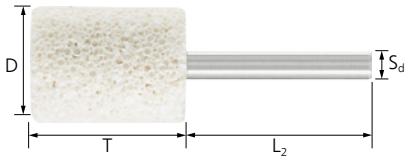
CAST STEEL tapered type for foundries

These mounted points are ideal for universal use in harsh conditions and for removing burrs on cast steel parts and for weld dressing of intersections after separating risers. The conical shape KE is designed for a comfortable working position during surface grinding and grinding of chamfers.

Special features:
- Very high grinding performance and aggressiveness from the start.
- High stock removal rate in combination with a long tool life.
- Delivered in practical industrial packaging.

S_d [mm]	L_2 [mm]	D [mm]	T [mm]	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
6	40	16	45	46	24,000	24,000	50	32210231	KE 1645 6 ADR 46 O5V CAST STEEL
		20	40	30	20,900	20,900	50	32212231	KE 2040 6 ADR 30 O5V CAST STEEL
8	40	35	50	24	15,600	15,600	50	32216262	KE 3550 8 ADR 24 O5V CAST STEEL

For universal use on plastic



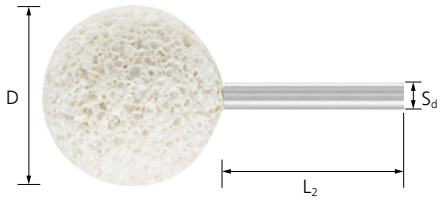
RUBBER, cylindrical type

These mounted points are exceptionally well suited to removing burrs, trimming, weld dressing and roughening of soft plastics and rubber. The cylindrical shape ZY is ideal for grinding radii and contours, and for deburring work.

Special features:
- Open structure and large chip channels due to bubble grain aluminium oxide.
- Machining of temperature-sensitive materials without the addition of coolant thanks to large chip channels.
- High grinding performance.

S_d [mm]	L_2 [mm]	D [mm]	T [mm]	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
6	40	16	32	1	12,000	51,200	10	31127901	ZY 1632 6 AH 1 D12V RUBBER
		25	32	1	8,000	32,900	10	31135901	ZY 2532 6 AH 1 D12V RUBBER
		40	20	2	5,000	23,800	5	31330901	ZY 4020 6 AH 2 D12V RUBBER

Mounted points
For universal use on plastic



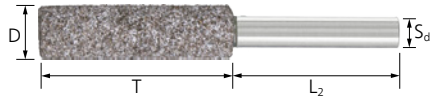
RUBBER, ball type

These mounted points are exceptionally well suited to removing burrs, trimming, weld dressing and roughening of soft plastics and rubber. The ball shape KU is often used for roughening rubber surfaces in tyre repair.

Special features:
- Open structure and large chip channels due to bubble grain aluminium oxide.
- Machining of temperature-sensitive materials without the addition of coolant thanks to large chip channels.
- High grinding performance.

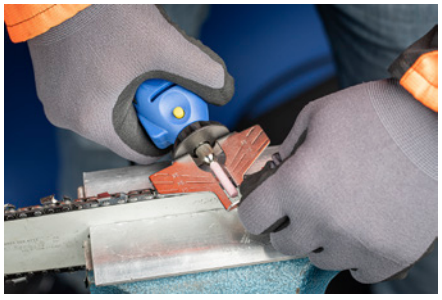
S_d [mm]	L_2 [mm]	D [mm]	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
6	40	40	2	5,000	19,700	5	31710520	KU 40 6 AH 2 D12V RUBBER

Grinding points for saw chains



Cylindrical mounted points for saw chains

These mounted points in the ZY cylindrical shape are exceptionally well suited to mechanical sharpening of saw chains.



Special features:
- High grinding performance and stock removal rate.
- Saves time and money thanks to shorter grinding times.
- Precise sharpening of saw chain teeth thanks to high dimensional stability.

S_d [mm]	L_2	D [mm]	T [mm]	Grit size	Suitable for chain pitch	Opt. RPM	Max. RPM		Item no.	Designation
3	25	3.8	16	80	1/4	25,000	62,800	3	*31105123*	CS-G ZY 3,816 3 AWN 80 M5V
		4.3	16	80	1/4, 3/8 LP	25,000	55,400	3	*31105124*	CS-G ZY 4,316 3 AWN 80 M5V
		5	20	80	.325	25,000	56,100	3	*31105125*	CS-G ZY 5,020 3 AWN 80 M5V
		5.5	20	80	3/8	25,000	50,900	3	*31105126*	CS-G ZY 5,520 3 AWN 80 M5V
		5.7	20	80	3/8, .404	25,000	49,100	3	*31105127*	CS-G ZY 5,720 3 AWN 80 M5V
		6.9	20	80	For depth gauge	25,000	40,500	3	*31105128*	CS-G ZY 6,920 3 AWN 80 M5V

Discontinued product

Grinding discs
General information

PFERD TOOLS

Safety notes

- The maximum permitted peripheral speed is 35 m/s.
- For safety reasons, the maximum permitted rotational speed indicated must never be exceeded.
- Before clamping, the grinding tool must be ring tested to make sure that it does not have any cracks (undamaged grinding tools give a clear tone).

Wear eye protection!

Wear hearing protection!

Wear a dust mask!

Wear gloves!

Observe the safety notes!

Do not use if damaged!

3

The quick way to find the perfect tool

Material group ▼		Design ▶	UNIVERSAL	CARBIDE	HSS
Steel	Steels up to 1,200 N/mm² (< 38 HRC)	Construction steels, carbon steels, tool steels, non-alloyed steels, case-hardened steels, tempering steels	●		○
	Hardened, heat-treated steels over 1,200 N/mm² (> 38 HRC)	Tool steels, tempering steels, alloyed steels	○	●	●
Stainless steel (INOX)	Rust and acid-resistant steels	Austenitic and ferritic stainless steels	●		
Tungsten carbide	–	–		●	
Non-ferrous metals	Soft non-ferrous metals, non-ferrous metals	Aluminium alloys, brass, copper, zinc	●	○	
	Hard non-ferrous metals	Bronze, titanium, titanium alloys, hard aluminium alloys	○	○	
Other materials	Glass			●	

● = highly suitable ○ = suitable

Grinding discs
Bench grinding wheels

UNIVERSAL version

These bench grinding wheels are ideal for universal use in the workshop. They are suitable for working on steel, cast steel, stainless steel (INOX) and cast iron.

Special features:
- Long tool life, high dimensional stability and high abrasive performance.
- Integrated adapter sleeves for mounting on almost any bench grinder spindle.

D [mm]	Reductions [mm]	T [mm]	H [mm]	Grit size	Max. RPM		Item no.	Designation
Regular aluminium oxide (AN)								
125	1", 3/4", 5/8", 1/2", 25, 20, 16, 13	20	32	36	5,350	1	39009707	BW 12520-32 AN 36 UNIVERSAL
				60	5,350	1	39009716	BW 12520-32 AN 60 UNIVERSAL
150	1", 3/4", 5/8", 1/2", 25, 20, 16, 13	16	32	24	4,500	1	39008418	BW 15016-32 AN 24 UNIVERSAL
				60	4,500	1	39008419	BW 15016-32 AN 60 UNIVERSAL
		20	32	24	4,500	1	39008422	BW 15020-32 AN 24 UNIVERSAL
				36	4,500	1	39009708	BW 15020-32 AN 36 UNIVERSAL
				46	4,500	1	39010114	BW 15020-32 AN 46 UNIVERSAL
				60	4,500	1	39008423	BW 15020-32 AN 60 UNIVERSAL
				80	4,500	1	39010115	BW 15020-32 AN 80 UNIVERSAL
		25	32	24	4,500	1	39008426	BW 15025-32 AN 24 UNIVERSAL
				36	4,500	1	39010116	BW 15025-32 AN 36 UNIVERSAL
				46	4,500	1	39010117	BW 15025-32 AN 46 UNIVERSAL
				60	4,500	1	39008427	BW 15025-32 AN 60 UNIVERSAL
				80	4,500	1	39010118	BW 15025-32 AN 80 UNIVERSAL
175	1", 3/4", 5/8", 1/2", 25, 20, 16, 13	25	51	36	3,750	1	*39009709*	BW 17525-32 AN 36 UNIVERSAL
	1-1/4", 1", 3/4", 5/8", 1/2", 32, 25, 20, 16	25	51	46	3,750	1	39010119	BW 17525-51 AN 46 UNIVERSAL
				36	3,750	1	39009710	BW 17525-51 AN 36 UNIVERSAL
				60	3,750	1	39009718	BW 17525-51 AN 60 UNIVERSAL
				80	3,750	1	39010120	BW 17525-51 AN 80 UNIVERSAL
200	1-1/4", 1", 3/4", 5/8", 1/2", 32, 25, 20, 16	20	51	24	3,350	1	39008435	BW 20020-51 AN 24 UNIVERSAL
				60	3,350	1	39008436	BW 20020-51 AN 60 UNIVERSAL
		25	51	24	3,350	1	39008440	BW 20025-51 AN 24 UNIVERSAL
	1", 3/4", 5/8", 1/2", 25, 20, 16, 13	25	51	60	3,350	1	*39008441*	BW 20025-51 AN 60 UNIVERSAL
	1-1/4", 1", 3/4", 5/8", 1/2", 32, 25, 20, 16	25	51	36	3,350	1	39009712	BW 20025-51 AN 36 UNIVERSAL
				46	3,350	1	39010121	BW 20025-51 AN 46 UNIVERSAL
				60	3,350	1	39009719	BW 20025-51 AN 60 UNIVERSAL
				80	3,350	1	39010122	BW 20025-51 AN 80 UNIVERSAL
	1", 3/4", 5/8", 1/2", 25, 20, 16, 13	30	51	24	3,350	1	39008456	BW 20030-51 AN 24 UNIVERSAL
				60	3,350	1	39008444	BW 20030-51 AN 60 UNIVERSAL
	1-1/4", 1", 3/4", 5/8", 1/2", 32, 25, 20, 16	32	51	36	3,350	1	39009713	BW 20032-51 AN 36 UNIVERSAL
				60	3,350	1	39009720	BW 20032-51 AN 60 UNIVERSAL
250	1-1/4", 1", 3/4", 5/8", 1/2", 32, 25, 20, 16	25	51	24	2,700	1	39010123	BW 25025-51 AN 24 UNIVERSAL
				36	2,700	1	39010124	BW 25025-51 AN 36 UNIVERSAL
				46	2,700	1	39010125	BW 25025-51 AN 46 UNIVERSAL
				60	2,700	1	39010126	BW 25025-51 AN 60 UNIVERSAL
				80	2,700	1	39010127	BW 25025-51 AN 80 UNIVERSAL
		32	51	36	2,700	1	39009714	BW 25032-51 AN 36 UNIVERSAL
				60	2,700	1	39009721	BW 25032-51 AN 60 UNIVERSAL
300	76.2, 51, 38.1, 32	40	76.2	36	2,250	1	39009715	BW 30040-76,2 AN 36 UNIVERSAL

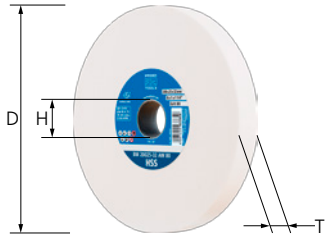
Continued on next page

Discontinued product

Grinding discs
Bench grinding wheels

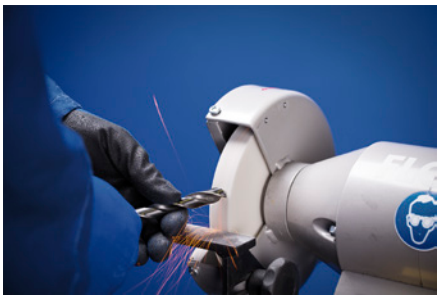
PFERD TOOLS

D [mm]	Reductions [mm]	T [mm]	H [mm]	Grit size	Max. RPM		Item no.	Designation
300	76.2, 51, 38.1, 32	40	76.2	60	2,250	1	39009722	BW 30040-76,2 AN 60 UNIVERSAL
		50	76.2	24	2,250	1	39010128	BW 30050-76,2 AN 24 UNIVERSAL
				36	2,250	1	39010129	BW 30050-76,2 AN 36 UNIVERSAL
				60	2,250	1	39010130	BW 30050-76,2 AN 60 UNIVERSAL
350	76.2, 51, 38.1, 32	50	76.2	24	1,850	1	39010131	BW 35050-76,2 AN 24 UNIVERSAL
250	1", 3/4", 5/8", 1/2", 25, 20, 16, 13	40	31.75	60	2,400	1	39008747	25040-51 AN 60 UNIVERSAL
350	1-1/4	50	38.1	36	1,800	1	39008753	35050-76,2 AN 36 UNIVERSAL
				60	1,800	1	39008754	35050-76,2 AN 60 UNIVERSAL



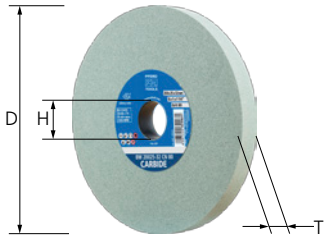
HSS design

These bench grinding wheels are exceptionally well suited for sharpening HSS pilot drills or for working on other high-alloy steels. They are suitable for working on tool steels, case-hardened steels, hardened and coated steels.



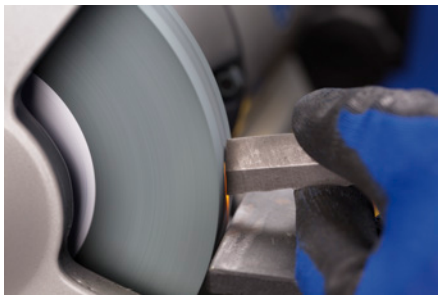
Special features:
- Long tool life, high dimensional stability and high abrasive performance.
- Integrated adapter sleeves for mounting on almost any bench grinder spindle.

D [mm]	Reductions [mm]	T [mm]	H [mm]	Grit size	Max. RPM		Item no.	Designation
White aluminium oxide (AW)								
125	1", 3/4", 5/8", 1/2", 25, 20, 16, 13	20	32	80	5,350	1	39009698	BW 12520-32 AW 80 HSS
150	1", 3/4", 5/8", 1/2", 25, 20, 16, 13	16	32	60	4,500	1	39008420	BW 15016-32 AW 60 HSS
		20	32	60	4,500	1	39008424	BW 15020-32 AW 60 HSS
				80	4,500	1	39009699	BW 15020-32 AW 80 HSS
		25	32	60	4,500	1	39008428	BW 15025-32 AW 60 HSS
175	1-1/4", 1", 3/4", 5/8", 1/2", 32, 25, 20, 16	25	51	80	3,750	1	39009701	BW 17525-51 AW 80 HSS
200	1-1/4", 1", 3/4", 5/8", 1/2", 32, 25, 20, 16	20	51	60	3,350	1	39008437	BW 20020-51 AW 60 HSS
		25	51	60	3,350	1	39008442	BW 20025-51 AW 60 HSS
				80	3,350	1	39009703	BW 20025-51 AW 80 HSS
		32	51	80	3,350	1	39009704	BW 20032-51 AW 80 HSS
250	1-1/4", 1", 3/4", 5/8", 1/2", 32, 25, 20, 16	32	51	80	2,700	1	39009705	BW 25032-51 AW 80 HSS
300	76.2, 51, 38.1, 32	40	76.2	80	2,250	1	39009706	BW 30040-76,2 AW 80 HSS



CARBIDE design

These bench grinding wheels are used on hard materials, e.g. for sharpening tungsten carbide tools and hardened steels.



Special features:
- Long tool life, high dimensional stability and high abrasive performance.
- Integrated adapter sleeves for mounting on almost any bench grinder spindle.

D [mm]	Reductions [mm]	T [mm]	H [mm]	Grit size	Max. RPM		Item no.	Designation
Silicon carbide (CN)								
125	1", 3/4", 5/8", 1/2", 25, 20, 16, 13	20	32	80	5,350	1	39009723	BW 12520-32 CN 80 CARBIDE
150	1", 3/4", 5/8", 1/2", 25, 20, 16, 13	16	32	120	4,500	1	39008421	BW 15016-32 CN 120 CARBIDE
		20	32	60	4,500	1	39008570	BW 15020-32 CN 60 CARBIDE
				80	4,500	1	39009724	BW 15020-32 CN 80 CARBIDE
				120	4,500	1	39008425	BW 15020-32 CN 120 CARBIDE
		25	32	60	4,500	1	39010132	BW 15025-32 CN 60 CARBIDE
				80	4,500	1	39010133	BW 15025-32 CN 80 CARBIDE
				120	4,500	1	39008429	BW 15025-32 CN 120 CARBIDE
175	1-1/4", 1", 3/4", 5/8", 1/2", 32, 25, 20, 16	25	51	80	3,750	1	39009726	BW 17525-51 CN 80 CARBIDE
				120	3,750	1	39010134	BW 17525-51 CN 120 CARBIDE
200	1-1/4", 1", 3/4", 5/8", 1/2", 32, 25, 20, 16	20	51	80	3,350	1	39008438	BW 20020-51 CN 80 CARBIDE
				120	3,350	1	39008439	BW 20020-51 CN 120 CARBIDE
		25	51	60	3,350	1	39010135	BW 20025-51 CN 60 CARBIDE
	25, 20, 16	25	51	120	3,350	1	39008443	BW 20025-51 CN 120 CARBIDE
	1-1/4", 1", 3/4", 5/8", 1/2", 32, 25, 20, 16	25	51	80	3,350	1	39009727	BW 20025-51 CN 80 CARBIDE
	25, 20, 16	30	51	120	3,350	1	39008458	BW 20030-51 CN 120 CARBIDE
	1-1/4", 1", 3/4", 5/8", 1/2", 32, 25, 20, 16	32	51	80	3,350	1	39009728	BW 20032-51 CN 80 CARBIDE
250	1-1/4", 1", 3/4", 5/8", 1/2", 32, 25, 20, 16	32	51	80	2,700	1	39009729	BW 25032-51 CN 80 CARBIDE
300	76.2, 51, 38.1, 32	40	76.2	80	2,250	1	39009730	BW 30040-76,2 CN 80 CARBIDE
250	1", 3/4", 5/8", 1/2", 25, 20, 16, 13	25	31.75	60	2,400	1	39008767	25025-51 CN 60 CARBIDE
				80	2,400	1	39008768	25025-51 CN 80 CARBIDE
				120	2,400	1	39008769	25025-51 CN 120 CARBIDE

Reducing rings for bench grinding wheels

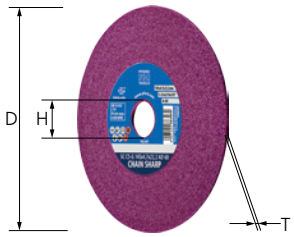
Reducing rings enable secure adjustment of the standard centre hole to a reduced centre hole dimension.

Special features:
- Generally suitable for all bench grinders and bench grinding wheels.

Image	Suitable for hole diameter [mm]	Width [mm]	Dia. hole included in the set		Item no.	Designation
1	32 mm	15.4	32/25,4/19,05/15,875/12,7	1	39010150	32/25,4/19,05/15,875/12,7
2	51 mm	24.4	51/32/25,4/19,05/15,875/12,7	1	39010151	51/32/25,4/19,05/15,875/12,7
3	76.2 mm	24.4	76,2/51/38,1/32	1	39010152	76,2/51/38,1/32

New item

Grinding discs
Grinding discs for saw chains



Grinding discs for saw chains

The grinding discs for saw chains are exceptionally well-suited for mechanical sharpening of saw chains using chain sharpeners.

Special features:
- High grinding performance and stock removal rate with long tool life.
- Careful grinding of the saw chain teeth.
- Precise sharpening of saw chain teeth thanks to high dimensional stability.

3

D [mm]	T [mm]	H [mm]	Grit size	Suitable for chain pitch	Max. RPM		Item no.	Designation
Aluminium oxide dark red (AD)								
145	3.2	22.2	60	1/4, 3/8 LP, .325	4,600	1	33100001	SC CS-G 145x3,2x22,2 AD 60J7V
	4.7	22.2	60	3/8, .404	4,600	1	33100002	SC CS-G 145x4,7x22,2 AD 60J7V
	6	22.2	60	For depth gauge	4,600	1	33100003	SC CS-G 145x6,0x22,2 AD 60J7V

Material group ▼		Design ▶	UNIVERSAL	CARBIDE
Steel	Steels up to 1,200 N/mm² (< 38 HRC)	Construction steels, carbon steels, tool steels, non-alloyed steels, case-hardened steels, tempering steels	●	○
	Hardened, heat-treated steels over 1,200 N/mm² (> 38 HRC)	Tool steels, tempering steels, alloyed steels	○	●
Stainless steel (INOX)	Rust and acid-resistant steels	Austenitic and ferritic stainless steels	●	
Tungsten carbide	–	–		●
Non-ferrous metals	Soft non-ferrous metals, non-ferrous metals	Aluminium alloys, brass, copper, zinc	●	
	Hard non-ferrous metals	Bronze, titanium, titanium alloys, hard aluminium alloys	●	

● = highly suitable ○ = suitable

Grinding and polishing stones

UNIVERSAL version

The UNIVERSAL grinding and polishing stones are the all-rounders for step-by-step fine grinding in tool and mould construction.

Special features:
- Long tool life, high dimensional stability. high abrasive performance, uniform stock removal and fine surface finish.
- Materials: Hardened, heat-treated steels, stainless steel (INOX), aluminium, other non-ferrous metals.

B [mm]	H [mm]	L [mm]	Grit size		Item no.	Designation
Square						
4	4	150	220	12	33400001	SPS 4x4x150 AN 220 UNIVERSAL
			320	12	33400007	SPS 4x4x150 AN 320 UNIVERSAL
			400	12	33400013	SPS 4x4x150 AN 400 UNIVERSAL
			600	12	33400019	SPS 4x4x150 AN 600 UNIVERSAL
6	3	150	220	12	33400002	SPS 6x3x150 AN 220 UNIVERSAL
			320	12	33400008	SPS 6x3x150 AN 320 UNIVERSAL
			400	12	33400014	SPS 6x3x150 AN 400 UNIVERSAL
			600	12	33400020	SPS 6x3x150 AN 600 UNIVERSAL
	6	150	220	12	33400003	SPS 6x6x150 AN 220 UNIVERSAL
			320	12	33400009	SPS 6x6x150 AN 320 UNIVERSAL
			400	12	33400015	SPS 6x6x150 AN 400 UNIVERSAL
			600	12	33400021	SPS 6x6x150 AN 600 UNIVERSAL
13	3	150	220	12	33400004	SPS 13x3x150 AN 220 UNIVERSAL
			320	12	33400010	SPS 13x3x150 AN 320 UNIVERSAL
			400	12	33400016	SPS 13x3x150 AN 400 UNIVERSAL
			600	12	33400022	SPS 13x3x150 AN 600 UNIVERSAL
	6	150	220	12	33400005	SPS 13x6x150 AN 220 UNIVERSAL

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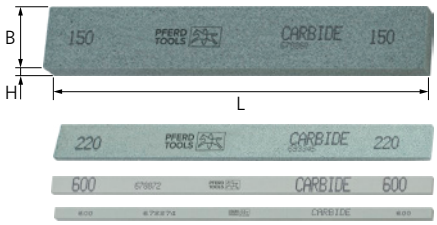
Discontinued product

B [mm]	H [mm]	L [mm]	Grit size		Item no.	Designation
13	6	150	320	12	*33400011*	SPS 13x6x150 AN 320 UNIVERSAL
			400	12	*33400017*	SPS 13x6x150 AN 400 UNIVERSAL
			600	12	*33400023*	SPS 13x6x150 AN 600 UNIVERSAL
25	13	150	220	6	*33400006*	SPS 25x13x150 AN 220 UNIVERSAL
			320	6	*33400012*	SPS 25x13x150 AN 320 UNIVERSAL
			400	6	*33400018*	SPS 25x13x150 AN 400 UNIVERSAL
			600	6	*33400024*	SPS 25x13x150 AN 600 UNIVERSAL



CARBIDE design

The CARBIDE soft grinding and polishing stones enable high removal rates without clogging on hard materials in tool and mould construction.

Special features:

- Long tool life, high dimensional stability. high abrasive performance, uniform stock removal and fine surface finish.

B [mm]	H [mm]	L [mm]	Grit size		Item no.	Designation
Square						
4	4	150	150	12	33400025	SPS 4x4x150 CN 150 CARBIDE
			220	12	33400031	SPS 4x4x150 CN 220 CARBIDE
			320	12	33400037	SPS 4x4x150 CN 320 CARBIDE
			400	12	33400043	SPS 4x4x150 CN 400 CARBIDE
			600	12	33400049	SPS 4x4x150 CN 600 CARBIDE
6	3	150	150	12	33400026	SPS 6x3x150 CN 150 CARBIDE
			220	12	33400032	SPS 6x3x150 CN 220 CARBIDE
			320	12	33400038	SPS 6x3x150 CN 320 CARBIDE
			400	12	33400044	SPS 6x3x150 CN 400 CARBIDE
			600	12	33400050	SPS 6x3x150 CN 600 CARBIDE
	6	150	150	12	33400027	SPS 6x6x150 CN 150 CARBIDE
			220	12	33400033	SPS 6x6x150 CN 220 CARBIDE
			320	12	33400039	SPS 6x6x150 CN 320 CARBIDE
			400	12	33400045	SPS 6x6x150 CN 400 CARBIDE
			600	12	33400051	SPS 6x6x150 CN 600 CARBIDE
13	3	150	150	12	33400028	SPS 13x3x150 CN 150 CARBIDE
			220	12	33400034	SPS 13x3x150 CN 220 CARBIDE
			320	12	33400040	SPS 13x3x150 CN 320 CARBIDE
			400	12	33400046	SPS 13x3x150 CN 400 CARBIDE
			600	12	33400052	SPS 13x3x150 CN 600 CARBIDE
	6	150	150	12	33400029	SPS 13x6x150 CN 150 CARBIDE
			220	12	33400035	SPS 13x6x150 CN 220 CARBIDE
			320	12	33400041	SPS 13x6x150 CN 320 CARBIDE
			400	12	33400047	SPS 13x6x150 CN 400 CARBIDE
			600	12	33400053	SPS 13x6x150 CU 600 CARBIDE
25	13	150	150	6	33400030	SPS 25x13x150 CN 150 CARBIDE
			220	6	33400036	SPS 25x13x150 CN 220 CARBIDE
			320	6	33400042	SPS 25x13x150 CN 320 CARBIDE

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Discontinued product

B [mm]	H [mm]	L [mm]	Grit size		Item no.	Designation
25	13	150	400	6	33400048	SPS 25x13x150 CN 400 CARBIDE
			600	6	33400054	SPS 25x13x150 CN 600 CARBIDE

Arbor for grinding and polishing stones for four different cross sections

This arbor is ideally suited for clamping grinding and polishing stones for manual applications.

Special features:
- Used for clamping four different cross sections.

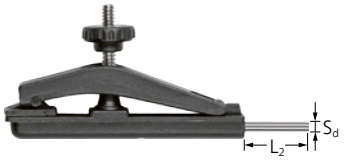
Suitable cross sections		Item no.	Designation
Manual application			
6 x 3 mm, 13 x 1.5 mm / 6 x 6 mm, 13 x 3 mm	1	33509020	SPSH 6x3/6x6/13x1,5/13x3

Arbor for grinding and polishing stones for two different cross sections

This arbor is ideally suited for clamping grinding and polishing stones for manual applications.

Special features:
- Offers space to clamp two different cross sections.

Suitable cross sections		Item no.	Designation
Manual application			
6 x 6 mm, 13 x 6 mm	1	33509010	SPSH 6x6/6x13



Variable arbor for manual filing tool for grinding and polishing stones

This arbor is ideally suited for clamping grinding and polishing stones for manual applications.

Special features:
- The arbor for the manual filing tool is variably adjustable.

S_d [mm]	L_2 [mm]	Suitable cross sections		Item no.	Designation
3.17	20	all grinding and polishing stones	1	33509030	SPSH 3-13 3,1

Accessories for mounted points and grinding discs

Hand dressers

Dressing stone for major dressing work

The dressing stone is suitable for profiling grinding points and Poliflex mounted points.

Special features:

- For major dressing work with anti-slip rubber backing.

L [mm]	B [mm]	H [mm]		Item no.	Designation
120	50	30	5	33401001	SE 1203050 CU 30 R 5 V

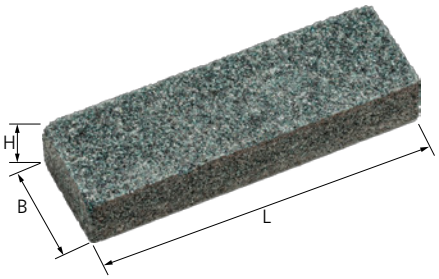
Dressing stone with 2 different grit sizes

The dressing stone is suitable for profiling grinding points and Poliflex mounted points.

Special features:

- Two different grit sizes for dressing mounted points with different grit sizes and bonds.

L [mm]	B [mm]	H [mm]		Item no.	Designation
120	50	30	5	33401010	SE 1203050 CU 30/60 R 5 V



Dressing stone for profiling and dressing work

The dressing stones are suitable for profiling grinding points and Poliflex mounted points.

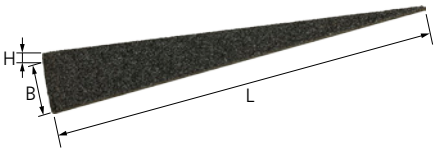
Special features:

- For profiling and dressing smaller mounted points.

L [mm]	B [mm]	H [mm]		Item no.	Designation
70	12	22	5	33899045	SE 702212 CU 46 M 5 V

Accessories for mounted points and grinding discs

Hand dressers



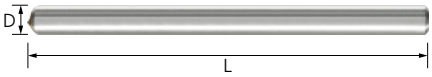
Abrasive segments

Wedge-shaped abrasive segments are exceptionally well suited for work on sand moulds and cores in foundries. Using the abrasive segments, the intersections and separators on sand moulds and cores can be re-finished and removed.

Special features:

- The wedge-shaped design allows effort-less work in both very narrow areas and on large surfaces.

L [mm]	B [mm]	H [mm]		Item no.	Designation
235	42	4	10	33401100	SE 235-42-4 AN 46 N 5 B
246	32	5	10	33401110	SE 246-32-5 AN 46 N 5 B



Diamond dresser

Using this diamond dresser, blunt abrasive grain and metal particles can be removed from the grinding tool, and the required grinding wheel shapes can be produced.

Special features:

- Long-life diamond dresser with large single grit diamond.
- For profiling and dressing mounted points, grinding discs and Poliflex mounted points.

L [mm]	D [mm]	Carats [ct]		Item no.	Designation
81	6	0.2	1	33301000	400 B

Roller dresser for bench grinding wheels

Ideal accessory for PFERD TOOLS bench grinding wheels if the grinding disc has become clogged or the shape of the grinding disc has changed.

Special features:

- The dressing roller is made from steel discs with U-shaped teeth.
- The curved washers between the tooth discs gives the tooth roller strength and stability.
- Axis with integrated grease fitting to guarantee a long tool life even at high peripheral speeds.

Total length [mm]	Roll width [mm]	Roll dia. [mm]	Max. wheel ø [mm]	Max. wheel thickness [mm]		Item no.	Designation
435	39	55	500	63	1	33300001	AR 55x39x12

Accessories for mounted points and grinding discs

Hand dressers

Replacement roller for roller dresser for bench grinding wheels

The interchangeable roller for the roller dresser can be used until the teeth are worn.

Roll width [mm]	Roll dia. [mm]	Hole diameter [mm]		Item no.	Designation
39	55	12	1	33300002	ER 55x39x12

Replacement spindle for roller dresser for bench grinding wheels

The lubricatable axle for the roller dresser is a spare part if the axle does become worn.

Roll width [mm]	Diameter [mm]		Item no.	Designation
39	12	1	33300003	EA 12x39

Rod dresser for bench grinding wheels

The SiC rod dresser is an affordable alternative for dressing bench grinding wheels. A stainless steel tube protects the SiC rod against breakage and makes the tool more robust.

Total length [mm]	Diameter [mm]		Item no.	Designation
250	22	1	33300004	AR 22x250

PFERD TOOLS

4

Fine grinding and polishing tools

Fine grinding and polishing tools
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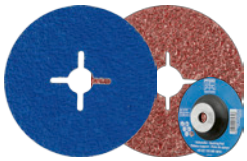

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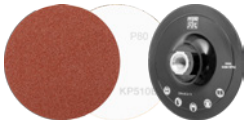

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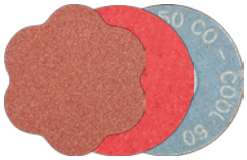

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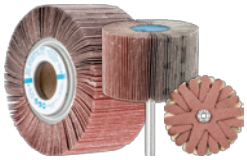

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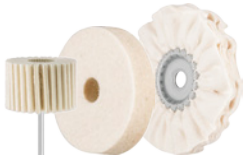

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Fine grinding and polishing tools
Highlights from the PFERD TOOLS range

COMBICLICK

The COMBICLICK system consists of a specially developed backing pad and a rugged mounting system at the back of the tool.

The backing pad enables COMBICLICK tools to be used on conventional angle grinders for the use of fibre discs and non-woven and felt tools.

The unique geometry of the cooling slots in the backing pad ensures high air throughput, which in turn considerably reduces the thermal load on the abrasive material and the workpiece.

Compared with conventional tools, the quick-mounting system, robust holder, secure tool-locking feature and integrated cooling system together achieve a workpiece temperature that is up to 30% lower, a 25% higher stock removal rate, a 30% longer tool life and better utilization of the abrasive material.

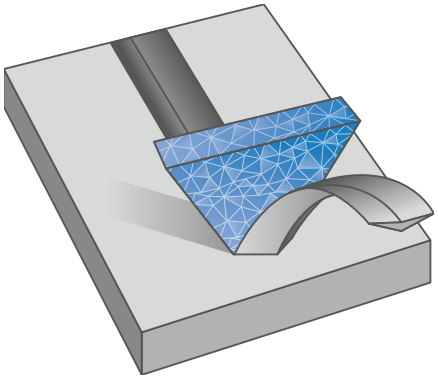
Scan the QR code to find out more about the COMBICLICK range.

VICTOGRAIN

VICTOGRAIN products are some of the most effective grinding tools in the world. The triangular, precision-formed abrasive grain from PFERD TOOLS helps provide a uniquely high level of abrasive performance. The **VICTO**GRAIN abrasive grit triangles are identical in shape and size and their cutting edges are applied to the workpiece at the optimum angle, meaning the grit needs very little energy to penetrate the workpiece. The user thus benefits from an efficient machining process with fast work progress, a long tool life, a reduced influx of heat into the workpiece and a lower power output required for the tool drive.

By combining all these properties together, users benefit from the ultimate, constant performance during cool grinding and an extremely long tool life together with consistent workpiece surface roughness.

Scan the QR code to find out more about the **VICTO**GRAIN products.



Non-woven tools

Non-woven abrasives come into their own where other grinding tools reach their limits and are unable to produce the desired results. The elastic properties of the polyamide fibres and the positive effect of the non-woven abrasive give rise to outstanding, gentle finishing tools.

Non-woven abrasives consist of polyamide fibres, synthetic resins and abrasive grain. The even distribution of the abrasive grain within the non-woven mixture guarantees a continuous supply of fresh, sharp abrasive grain during the entire grinding operation. Non-woven abrasives do not clog up, do not leave rust on surfaces and are not conductive.

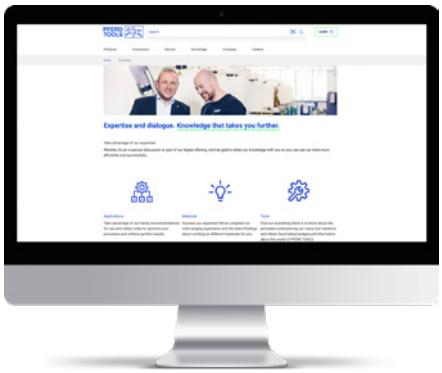
Non-woven abrasive material is excellent when used for deburring, cleaning or working on the surface of many metals, including aluminium, brass, copper, nickel, stainless steel (INOX) and titanium. It is also suitable for working on other hard-to-grind materials, such as ceramic, glass and plastic.

Scan the QR code to find out more about PFERD TOOLS' wide range of non-woven tools.

Fine grinding and polishing tools
Highlights from the PFERD TOOLS range

More expert information online

Scan the QR code to find out a wide range of tool and application knowledge relating to PFERD TOOLS' high-quality tools and their huge variety of materials.



General information

Custom-made products

If you cannot find the solution for your particular application in our extensive catalogue range, we can produce fine grinding and polishing tools in premium PFERD TOOLS quality specifically for your application on request.
We can take into account your specifications and needs, drawings, information on dimensions and shapes, grit sizes and grain types, grain mixtures, shank diameters and shank lengths.
Please speak to our sales representatives. We will be happy to advise you.

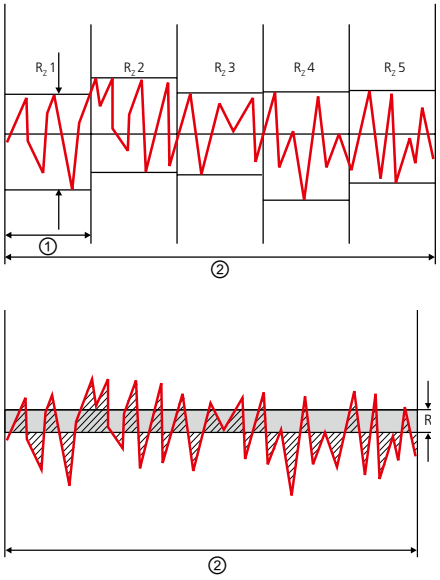
Factors that influence the surface roughness:

The abrasive material, the material you will be working on and the machining parameters all affect the surface roughness. As a general rule:

- The larger the grain, the rougher the surface produced.
- The softer the material that is being machined, the coarser the surface produced when using the same grit size.
- The increase in cutting speed leads to a slightly better surface quality.
- Reducing the feed rate produces a slightly finer surface quality.

A distinction is made between the following roughness depths:

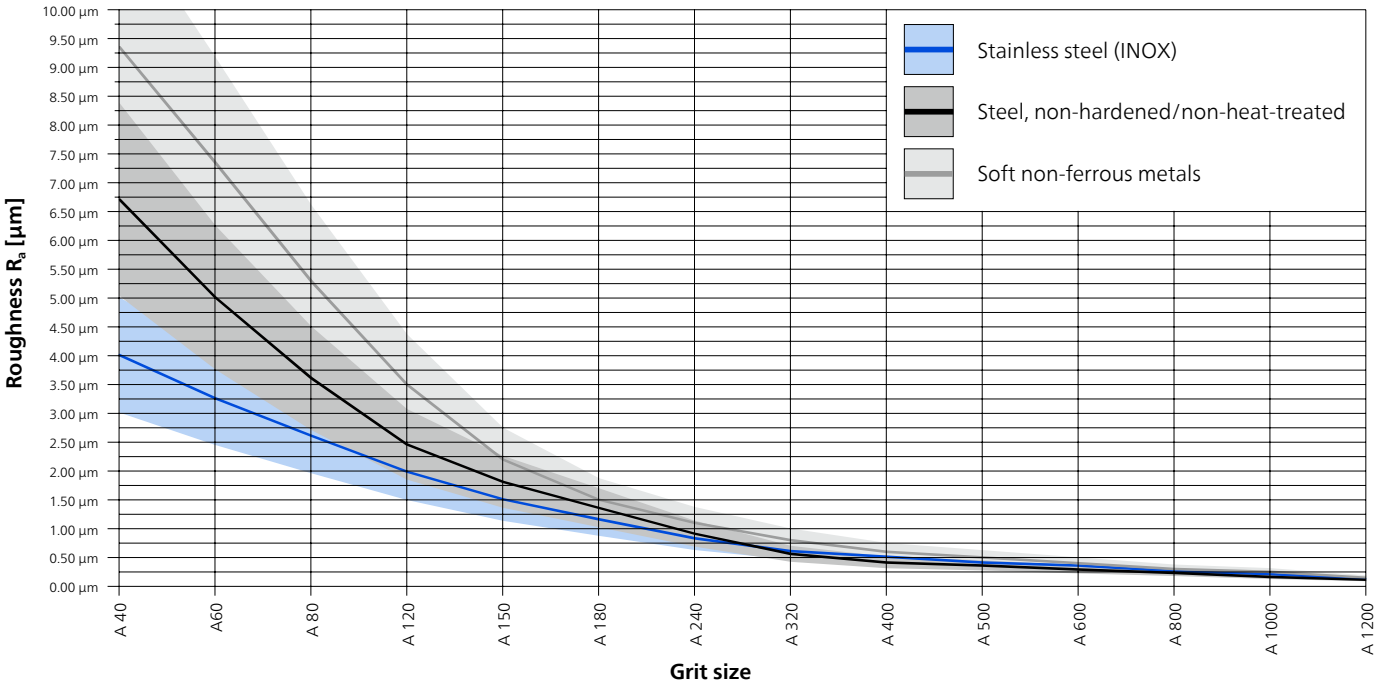
- **Individual roughness depth Rz_i**
  The sum of the height of the largest profile peak and the depth of the largest profile trough within an individual measuring section.
- **Roughness depth R_z**
  The mean value of the individual roughness depths (R_{zi}) of consecutive individual measuring sections.
- **Roughness depth R_{max}**
  The largest individual roughness depth within the overall measuring section.
- **Average roughness value R_a**
  The arithmetic average of the amounts of all values of the roughness profile.



① Individual measuring section
② Overall measuring section

Application	Roughness depth
Coarse grinding: grit sizes 24 to 150	R_a = 0.70 to 12 µm
Fine grinding: grit sizes 180 to 400	R_a = 0.20 to 0.70 µm
Very fine grinding: grit sizes 500 to 1,200	R_a = 0.05 to 0.20 µm
Structuring: surfaces ground	R_a = 0.20 to 0.70 µm
Satin finishing/matt finishing: with non-woven abrasive	R_a = 0.10 to 0.70 µm
Polishing: Step 1: Step 2: Step 3:	 R_a = 0.10 to 0.20 µm R_a = 0.04 to 0.10 µm R_a = < 0.01 µm

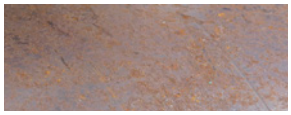
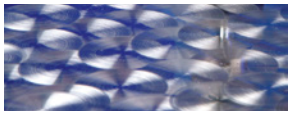
Reference values for roughness depths in the case of different applications.



Surface roughness of different materials after machining with tools using coated abrasives.

Fine grinding and polishing tools
The quick way to find the perfect tool

PFERD TOOLS

Work type ▸ / Work steps ▾	Face-down grinding Tools with backing pad 		Belt grinding Tools for belt sanders
Changing geometrical profiles 	COMBIDISC ■ Abrasive discs ■ Diamond abrasive discs	COMBICLICK ■ Fibre discs	Short belts
	COMBIDISC ■ Mini fibre discs	Fibre discs	Long belts
	COMBIDISC ■ Mini-POLIFAN ■ Mini-POLIFAN FLEX	Hook and loop discs	
Step-by-step fine grinding **Reducing roughness depths** 	COMBIDISC ■ Abrasive discs ■ Non-woven discs	PSA discs	Short belts
	COMBICLICK ■ Fibre discs ■ Non-woven discs	Poliflex ■ Discs	Long belts
	Fibre discs	POLINOX ■ Unitized discs	
	Hook and loop abrasive discs	POLINOX Discs ■ PNL ■ PNZ	
	Hook and loop discs		
Fine grinding **Very fine grinding** 	COMBIDISC ■ Abrasive discs ■ Non-woven discs	Poliflex ■ Discs	Short belts
	COMBICLICK ■ Fibre discs	POLINOX ■ Unitized discs	Long belts
	Fibre discs	Grinding oils	Short belts, non-woven
	PSA discs		Grinding oils
Cleaning 	COMBIDISC ■ Non-woven discs	POLIVLIES ■ Hook and loop discs	Short belts, non-woven
	COMBIDISC ■ POLICLEAN discs	POLICLEAN ■ Discs	
	COMBICLICK ■ Non-woven discs		
Creating visual effects 	COMBIDISC ■ Non-woven discs	Poliflex ■ Structuring tools	Short belts, non-woven
	COMBIDISC ■ TX discs	POLIVLIES ■ Hook and loop discs	
	COMBICLICK ■ Non-woven discs	POLIVLIES ■ Flap discs	
	Marbling tools	POLINOX-Discs ■ PNL ■ PNZ	
Polishing 	COMBIDISC ■ Felt discs	Felt flap discs	Short belts, felt
	COMBICLICK ■ Felt discs		

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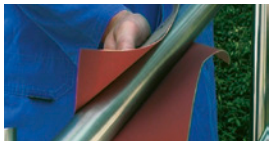
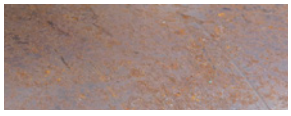
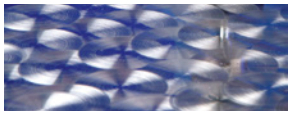
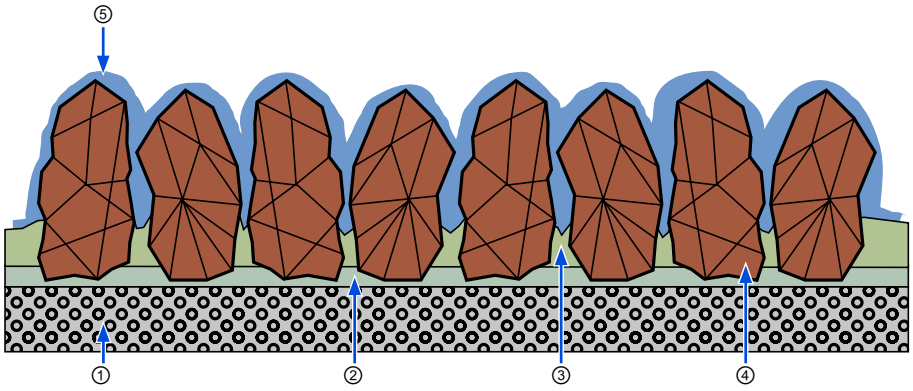
Fine grinding and polishing tools
The quick way to find the perfect tool

PFERD TOOLS

Work type ▸ / Work steps ▾	Peripheral grinding Mounted tools, tools with arbor holes		Manual grinding 	
Changing geometrical profiles	Abrasive spiral bands	POLICAP		
	POLIROLL, POLICO	Overlap slotted discs		
Step-by-step fine grinding Reducing roughness depths	Abrasive spiral bands	Unmounted flap wheels for angle grinders	Poliflex ■ Blocks	
	POLIROLL	Flap drums	Ceramic fibre files	
	POLICAP	POLISTAR	Abrasive sheets ■ Cloth ■ Paper	
	Mounted flap wheels	Overlap slotted discs	Shop rolls ■ Cloth ■ Paper	
	Unmounted flap wheels		Flexible sanding sticks	
Fine grinding Very fine grinding	POLIROLL, POLICO	POLINOX ■ Unitized/convolute wheels	Poliflex ■ Blocks	Shop rolls ■ Cloth ■ Paper
	Poliflex ■ Fine grinding discs	POLINOX ■ Unitized/convolute grinding points	Abrasive sheets ■ Cloth ■ Paper	Diamond hand pads
	Poliflex ■ Fine grinding points	Grinding oils	Abrasive sponge	
Cleaning 	POLINOX ■ Mounted grinding wheels	POLIVLIES ■ CURVE	Abrasive sheets ■ Cloth ■ Paper	
	POLINOX ■ Unmounted grinding wheels	POLICLEAN ■ Wheels	POLINOX ■ Hand pads	
	POLINOX ■ Cross buffs	POLICLEAN ■ Mounted tools	Shop rolls ■ Cloth ■ Paper	
	POLINOX ■ Grinding drums	POLICLEAN ■ Grinding drums	Non-woven shop rolls	
Creating visual effects 	POLINOX ■ Mounted grinding wheels	POLIFLAP Schleifrad	POLINOX ■ Hand pads	
	POLINOX ■ Unmounted grinding wheels	Poliflex ■ Structuring tools	Non-woven shop rolls	
	POLINOX ■ Wheels	Flap drums	Masking tape	
	POLINOX ■ Grinding drums			
Polishing	Felt points	Mounted felt flap wheels	Diamond polishing pastes	Grinding pastes
	Felt wheels and lenses	Cloth rings	Polishing paste bars	

Structure of coated abrasives

PFERD TOOLS offers a wide selection of coated abrasive tools for working on different workpiece geometries and materials.
① Backing material
② Base bond
③ Coating bond
④ Abrasive grain
⑤ Active grinding layer



① Backing material

Paper

The main areas of application for coated abrasives with a paper base are in the woodworking industry and in trade, e.g. among carpenters, painters and decorators.

Cloth

Coated abrasives with a cloth base are predominantly used for metalworking.

Vulcanized fibre

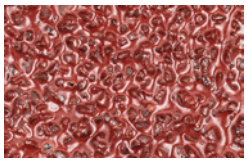
When adapted to the corresponding applications, vulcanized fibre in various thicknesses is predominantly used for making fibre grinding discs. Vulcanized fibre is a very sturdy, robust backing material, and also very wear-resistant.

② + ③ bond

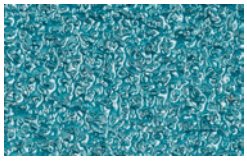
When manufacturing coated abrasives, different resin bonds are used to fix the abrasive grain to the backing material. First, the backing material is coated with the base bond ②. After this, the abrasive grain is evenly scattered over the surface and aligned to achieve higher aggressiveness with the help of special procedures. The coating bond ③ ensures that the abrasive grain is fixed in place and protects the grain against the forces and loads resulting from the grinding process.

④ Abrasive grain

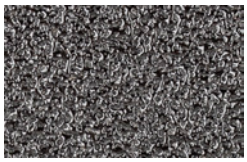
Selecting the right abrasive grain has a great influence on the surface quality and efficiency. The most common abrasive grain materials are:



Aluminium oxide A
Numerous types of aluminium oxide are used as abrasives. These may be present in molten or sintered form. The hardness and toughness can be influenced by special manufacturing procedures or additives. Standard types of aluminium oxide and a "sharp-edged" grain shape are predominantly used for coated abrasives.

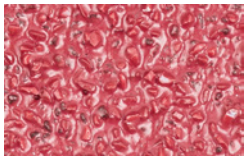


Zirconia alumina Z
Zirconia alumina is a fused mixture of aluminium oxide and zirconium oxide. In comparison to aluminium oxides, zirconia alumina exhibits lower hardness but greater toughness. The high proportion of zirconium oxide results in an extremely powerful self-sharpening effect and contributes to outstanding stock removal rates with cool grinding and a long tool life.



Silicon carbide SiC
Silicon carbide is synthetically manufactured abrasive grain which is very sharp-edged, with low toughness and very high hardness. It is particularly suitable for work on titanium, aluminium, bronze, stone and plastics.
Ideally suited for use in the aeronautical industry, especially where SiC is the only approved abrasive, e.g. for use on engine components.

Diamond grain D
Diamond grain is the hardest abrasive. It consists of pure carbon in a crystalline structure. For grinding tools, the diamonds used are generally produced synthetically at very high temperatures and under high pressure. The properties of diamond grain can be adapted for use in grinding tools through various synthesis conditions.



Ceramic oxide grain
For sintered aluminium oxides, a differentiation is made between sintered bauxite aluminium oxides and sol-gel aluminium oxides. Sol-gel aluminium oxides are predominantly used for coated abrasives in the form of abrasive ceramic grain. This state-of-the-art abrasive is used for numerous applications thanks to its high toughness and good self-sharpening qualities.

Compact grain CK
In the case of compact grain, individual grains are built up as granulate with a bond system. Each individual grain of granulate is one solid unit, in which numerous abrasive grains made from aluminium oxide or silicon carbide (SiC) are joined together. Used abrasive grains are torn out of this compound structure by the forces resulting from the grinding, and expose sharp abrasive points in doing so. This guarantees a long tool life with a constant surface quality.

VICTOGRAIN
VICTOGRAIN-COOL
By combining all these properties together, users benefit from the ultimate, constant performance during cool grinding and an extremely long tool life together with consistent workpiece surface roughness.

4

Grit sizes

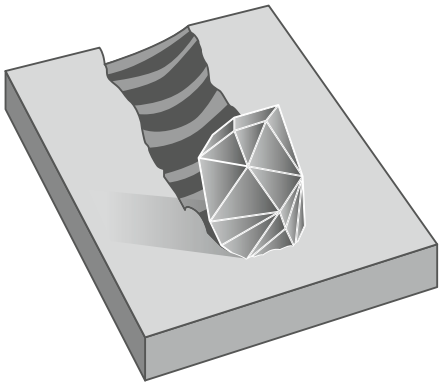
The various grit sizes for coated abrasives are set out in ISO 6344 and have been adopted in FEPA standards.

Coarse
P 12 – 16 – 20 – 24 – 36 – 40 – 50 – 60 – 80

Medium
P 100 – 120 – 150 – 180 – 220 – 240 – 280

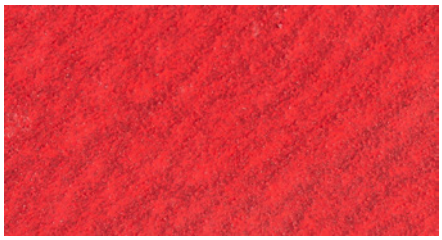
Fine
P 320 – 360 – 400 – 500 – 600

Ultra-fine
P 800 – 1,000 – 1,200 – 1,500



⑤ Active grinding layer

The use of an active grinding layer significantly increases the stock removal rate and reduces the workpiece temperature. This is particularly advantageous for materials which conduct heat poorly, such as stainless steel (INOX). Products from PFERD TOOLS with an active grinding layer have the suffix "COOL" in the item designation.



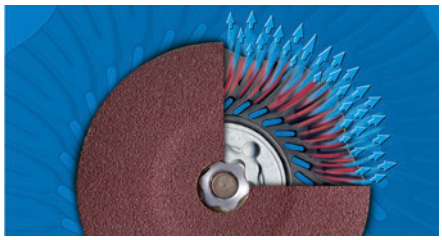
COMBICLICK
General information

System

Very easy and convenient to use.

Clamping

Extremely quick and easy tool changes, which reduces process costs.

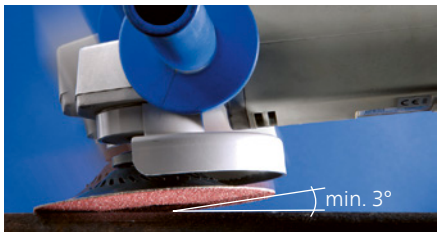


Cooling effect

Excellent cooling of the tool and workpiece.

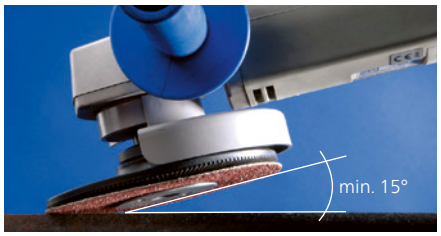
Flexible grinding

Particularly soft and flexible grinding performance during face-down grinding with fibre disc dia. 125 mm.



COMBICLICK can be used at extremely low angles

Using COMBICLICK helps to avoid scratches caused by protruding clamping pieces, and exploits the abrasive material that is available.



By way of comparison, the contact angle for fibre discs is much steeper.

The quick way to find the perfect tool

Material group ▼			Abrasive ▶ Aluminium oxide A	Zircon Z	Ceramic oxide grain CO	VICTOGRAIN	Silicon carbide SiC	Aluminium oxide A-COOL	Ceramic oxide grain CO-COOL (PLUS)	Ceramic oxide grain CO-ALU	VICTOGRAIN-COOL
Steel, cast steel	Non-hardened, non-heat-treated steels	Construction steels, carbon steels, tool steels, non-alloyed steels, cast steel	●	○	●	●					○
	Hardened, heat-treated steels	Tool steels, tempering steels, alloyed steels, cast steel	○	●	●	●					○
Stainless steel (INOX)	Rust and acid-resistant steels	Austenitic and ferritic stainless steels		○		○		●	●		●
Non-ferrous metals	Soft non-ferrous metals, non-ferrous metals	Soft aluminium alloys	○					●	○	○	
		Brass, copper, zinc	●	○	○					○	
	Hard non-ferrous metals	Hard aluminium alloys	●	○	○		○			○	
		Bronze, titanium		○	○	○	●		●		●
	High-temperature-resistant materials	Nickel-based and cobalt-based alloys		○	○	○			●	○	●
Cast iron	Grey cast iron, white cast iron	Cast iron with flake graphite EN-GJL (GG), with nodular graphite/nodular cast iron EN-GJS (GGG), white annealed cast iron EN-GJMW (GTW), black annealed cast iron EN-GJMB (GTS)	●	○	●						
Plastics, other materials		Fibre-reinforced plastics, thermoplastics, wood, chipboard, paint	●				●				

● = highly suitable ○ = suitable

Safety notes

- The maximum permitted peripheral speed is 80 m/s.
- For safety reasons, the maximum permitted rotational speed indicated must never be exceeded.

Wear eye protection!

Wear hearing protection!

Wear gloves!

Wear a dust mask!

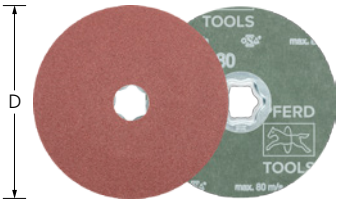
Use backing pad!

Follow the safety instructions!

Not permitted for wet grinding!

4

Fibre discs CC-FS



Aluminium oxide A version

For general grinding work from coarse to fine grinding in industry and professional trades.

Special features:

- The innovative quick-mounting system ensures convenient handling and cool grinding.
- High economic efficiency thanks to long tool life and very high stock removal rate. Consistent surface finish thanks to high-quality abrasives.
- Quick tool changes thanks to the innovative COMBICLICK quick-clamping system. Please order backing pad separately.

D [mm]	Abrasive	Grit size	Max. RPM		Item no.	Designation
100	A	36	15,300	25	*64189001*	CC-FS 100 A 36
		50	15,300	25	*64189002*	CC-FS 100 A 50
		60	15,300	25	*64189003*	CC-FS 100 A 60
		80	15,300	25	*64189004*	CC-FS 100 A 80
		120	15,300	25	*64189005*	CC-FS 100 A 120
115	A	24	13,300	25	64190002	CC-FS 115 A 24
		36	13,300	25	64190003	CC-FS 115 A 36
		50	13,300	25	64190005	CC-FS 115 A 50
		60	13,300	25	64190006	CC-FS 115 A 60
		80	13,300	25	64190008	CC-FS 115 A 80
		120	13,300	25	64190012	CC-FS 115 A 120
125	A	24	12,200	25	64190102	CC-FS 125 A 24
		36	12,200	25	64190103	CC-FS 125 A 36
		50	12,200	25	64190105	CC-FS 125 A 50
		60	12,200	25	64190106	CC-FS 125 A 60
		80	12,200	25	64190108	CC-FS 125 A 80
		120	12,200	25	64190112	CC-FS 125 A 120

Discontinued product

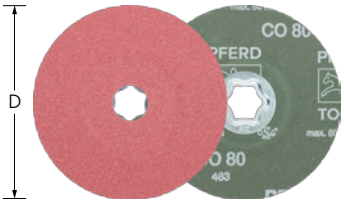
Zirconia alumina Z version

For coarse grinding work with a high stock removal rate and a long tool life.

Special features:

- The innovative quick-mounting system ensures convenient handling and cool grinding.
- High economic efficiency thanks to long tool life and very high stock removal rate. Consistent surface finish thanks to high-quality abrasives.
- Quick tool changes thanks to the innovative COMBICLICK quick-clamping system. Please order backing pad separately.

D [mm]	Abrasive	Grit size	Max. RPM		Item no.	Designation
115	Z	36	13,300	25	64290003	CC-FS 115 Z 36
		50	13,300	25	64290005	CC-FS 115 Z 50
		60	13,300	25	64290006	CC-FS 115 Z 60
		80	13,300	25	64290008	CC-FS 115 Z 80
		120	13,300	25	64290012	CC-FS 115 Z 120
125	Z	24	12,200	25	64290102	CC-FS 125 Z 24
		36	12,200	25	64290103	CC-FS 125 Z 36
		50	12,200	25	64290105	CC-FS 125 Z 50
		60	12,200	25	64290106	CC-FS 125 Z 60
		80	12,200	25	64290108	CC-FS 125 Z 80
		120	12,200	25	64290112	CC-FS 125 Z 120



Ceramic oxide grain CO version

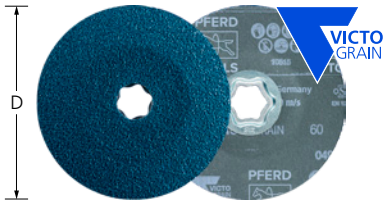
For aggressive grinding with maximum stock removal rate and very long tool life. Consistently high performance due to self-sharpening ceramic oxide grain. The ceramic oxide grain is specifically designed for work on hard materials and layers.

Special features:

- The innovative quick-mounting system ensures convenient handling and cool grinding.
- High economic efficiency thanks to long tool life and very high stock removal rate. Consistent surface finish thanks to high-quality abrasives.
- Quick tool changes thanks to the innovative COMBICLICK quick-clamping system. Please order backing pad separately.

D [mm]	Abrasive	Grit size	Max. RPM		Item no.	Designation
115	CO	24	13,300	25	64192002	CC-FS 115 CO 24
		36	13,300	25	64192003	CC-FS 115 CO 36
		50	13,300	25	64192005	CC-FS 115 CO 50
		60	13,300	25	64192006	CC-FS 115 CO 60
		80	13,300	25	64192008	CC-FS 115 CO 80
		120	13,300	25	*64192012*	CC-FS 115 CO 120
125	CO	24	12,200	25	64192102	CC-FS 125 CO 24
		36	12,200	25	64192103	CC-FS 125 CO 36
		50	12,200	25	64192105	CC-FS 125 CO 50
		60	12,200	25	64192106	CC-FS 125 CO 60
		80	12,200	25	64192108	CC-FS 125 CO 80

Discontinued product

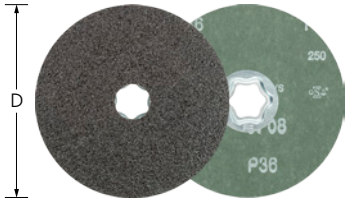


VICTOGRAIN version

For maximum aggressive grinding with an extremely long tool life and the ultimate stock removal rate on steel and hard materials. The ultimate, consistently high performance.

Special features:
- The innovative quick-mounting system ensures convenient handling and cool grinding.
- High economic efficiency thanks to long tool life and very high stock removal rate. Consistent surface finish thanks to high-quality abrasives.
- Quick tool changes thanks to the innovative COMBICLICK quick-clamping system. Please order backing pad separately.

D [mm]	Abrasive	Grit size	Max. RPM		Item no.	Designation
100	VICTOGRAIN	36	15,300	25	64110136	CC-FS 100 VICTOGRAIN 36
		60	15,300	25	64110160	CC-FS 100 VICTOGRAIN 60
		80	15,300	25	64110180	CC-FS 100 VICTOGRAIN 80
115	VICTOGRAIN	36	13,300	25	64111636	CC-FS 115 VICTOGRAIN 36
		60	13,300	25	64111660	CC-FS 115 VICTOGRAIN 60
		80	13,300	25	64111680	CC-FS 115 VICTOGRAIN 80
125	VICTOGRAIN	36	12,200	25	64112636	CC-FS 125 VICTOGRAIN 36
		60	12,200	25	64112660	CC-FS 125 VICTOGRAIN 60
		80	12,200	25	64112680	CC-FS 125 VICTOGRAIN 80
180	VICTOGRAIN	36	8,500	25	64118136	CC-FS 180 VICTOGRAIN 36
		60	8,500	25	64118160	CC-FS 180 VICTOGRAIN 60
		80	8,500	25	64118180	CC-FS 180 VICTOGRAIN 80



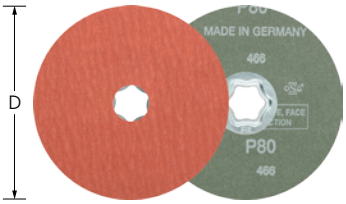
Silicon carbide SiC version

For general grinding work on components made of aluminium, copper, bronze, titanium and fibre-reinforced plastics. Particularly recommended for use on titanium alloys. Ideally suited for use in the aircraft industry, particularly when SiC is the only abrasive approved for use.

Special features:
- The innovative quick-mounting system ensures convenient handling and cool grinding.
- High economic efficiency thanks to long tool life and very high stock removal rate. Consistent surface finish thanks to high-quality abrasives.
- Quick tool changes thanks to the innovative COMBICLICK quick-clamping system. Please order backing pad separately.

D [mm]	Abrasive	Grit size	Max. RPM		Item no.	Designation
115	SiC	36	13,300	25	64294003	CC-FS 115 SiC 36
		60	13,300	25	64294006	CC-FS 115 SiC 60
		80	13,300	25	*64294008*	CC-FS 115 SiC 80
		120	13,300	25	64294012	CC-FS 115 SiC 120
125	SiC	36	12,200	25	64294103	CC-FS 125 SiC 36
		60	12,200	25	64294106	CC-FS 125 SiC 60
		80	12,200	25	*64294108*	CC-FS 125 SiC 80
		120	12,200	25	64294112	CC-FS 125 SiC 120

Discontinued product

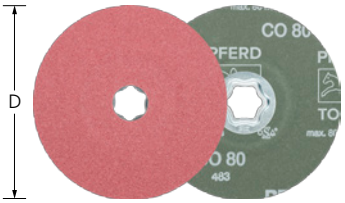


Aluminium oxide A-COOL version

For general grinding work from fine to very fine grinding on materials which do not conduct heat well, e.g. stainless steel (INOX) and aluminium. Active grinding additives substantially improve the stock removal rate, prevent clogging and result in cooler grinding.

Special features:
- The innovative quick-mounting system ensures convenient handling and cool grinding.
- High economic efficiency thanks to long tool life and very high stock removal rate. Consistent surface finish thanks to high-quality abrasives.
- Quick tool changes thanks to the innovative COMBICLICK quick-clamping system. Please order backing pad separately.

D [mm]	Abrasive	Grit size	Max. RPM		Item no.	Designation
115	A-COOL	60	13,300	25	64191006	CC-FS 115 A-COOL 60
		80	13,300	25	64191008	CC-FS 115 A-COOL 80
		120	13,300	25	64191012	CC-FS 115 A-COOL 120
		150	13,300	25	64191015	CC-FS 115 A-COOL 150
		220	13,300	25	64191022	CC-FS 115 A-COOL 220
125	A-COOL	50	12,200	25	64191105	CC-FS 125 A-COOL 50
		60	12,200	25	64191106	CC-FS 125 A-COOL 60
		80	12,200	25	64191108	CC-FS 125 A-COOL 80
		120	12,200	25	64191112	CC-FS 125 A-COOL 120
		150	12,200	25	64191115	CC-FS 125 A-COOL 150
		180	12,200	25	64191118	CC-FS 125 A-COOL 180
		220	12,200	25	64191122	CC-FS 125 A-COOL 220



Ceramic oxide grain CO-COOL version

Consistently high performance and aggressive grinding due to self-sharpening ceramic oxide grain. Active grinding additives improve the stock removal rate, prevent clogging and result in cooler grinding on hard materials which do not conduct heat well.

Special features:
- The innovative quick-mounting system ensures convenient handling and cool grinding.
- High economic efficiency thanks to long tool life and very high stock removal rate. Consistent surface finish thanks to high-quality abrasives.
- Quick tool changes thanks to the innovative COMBICLICK quick-clamping system. Please order backing pad separately.

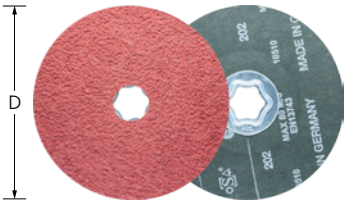
D [mm]	Abrasive	Grit size	Max. RPM		Item no.	Designation
100	CO-COOL	36	15,300	25	64189101	CC-FS 100 CO-COOL 36
		50	15,300	25	64189102	CC-FS 100 CO-COOL 50
		60	15,300	25	64189103	CC-FS 100 CO-COOL 60
		80	15,300	25	64189104	CC-FS 100 CO-COOL 80
		120	15,300	25	69401582	CC-FS 100 CO-COOL 120
115	CO-COOL	24	13,300	25	64193002	CC-FS 115 CO-COOL 24
		36	13,300	25	64193003	CC-FS 115 CO-COOL 36
		50	13,300	25	64193005	CC-FS 115 CO-COOL 50
		60	13,300	25	64193006	CC-FS 115 CO-COOL 60
		80	13,300	25	64193008	CC-FS 115 CO-COOL 80
		120	13,300	25	64193012	CC-FS 115 CO-COOL 120
125	CO-COOL	24	12,200	25	64193102	CC-FS 125 CO-COOL 24
		36	12,200	25	64193103	CC-FS 125 CO-COOL 36
		50	12,200	25	64193105	CC-FS 125 CO-COOL 50

Continued on next page

COMBICLICK
Fibre discs CC-FS

PFERD TOOLS

D [mm]	Abrasive	Grit size	Max. RPM		Item no.	Designation
125	CO-COOL	60	12,200	25	64193106	CC-FS 125 CO-COOL 60
		80	12,200	25	64193108	CC-FS 125 CO-COOL 80
		120	12,200	25	64193112	CC-FS 125 CO-COOL 120
180	CO-COOL	24	8,500	25	64193302	CC-FS 180 CO-COOL 24
		36	8,500	25	64193303	CC-FS 180 CO-COOL 36
		50	8,500	25	64193305	CC-FS 180 CO-COOL 50
		60	8,500	25	64193306	CC-FS 180 CO-COOL 60
		80	8,500	25	64193308	CC-FS 180 CO-COOL 80



Ceramic oxide grain CO-COOL PLUS version

Consistently high performance and maximum aggressive grinding due to self-sharpening ceramic oxide grain. Active grinding additives improve the stock removal rate, prevent clogging and result in very cool grinding on hard materials which do not conduct heat well.

Special features:
- High economic efficiency thanks to long tool life and the ultimate stock removal rate.
- Consistent surface finish thanks to high-quality abrasives. Highly flexible, enabling optimal adjustment to the contour.
- Quick tool changes thanks to the innovative COMBICLICK quick-clamping system. Please order backing pad separately.

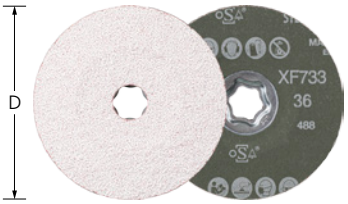
D [mm]	Abrasive	Grit size	Max. RPM		Item no.	Designation
115	CO-COOL-PLUS	24	13,300	25	64193004	CC-FS 115 CO-COOL PLUS 24
125	CO-COOL-PLUS	24	12,200	25	64193104	CC-FS 125 CO-COOL PLUS 24

Ceramic oxide grain CO-COOL-CONTOUR version

Very flexible and adaptable outer contour that does not cut into the workpiece. Consistently high performance and aggressive grinding due to self-sharpening ceramic oxide grain. Active grinding additives improve the stock removal rate, prevent clogging and result in cooler grinding.

Special features:
- The innovative quick-mounting system ensures convenient handling and cool grinding.
- High economic efficiency thanks to long tool life and very high stock removal rate. Consistent surface finish thanks to high-quality abrasives.
- Use only the CC-GT 115-125 backing pad with M14 or 5/8" thread to maintain the flexibility at the edge of the fibre discs.

D [mm]	Abrasive	Grit size	Max. RPM		Item no.	Designation
125	CO-COOL	60 CONTOUR	12,200	25	64112560	CC-FS 125 CO-COOL 60 CONTOUR
		80 CONTOUR	12,200	25	64112580	CC-FS 125 CO-COOL 80 CONTOUR
		120 CONTOUR	12,200	25	64112512	CC-FS 125 CO-COOL 120 CONTOUR

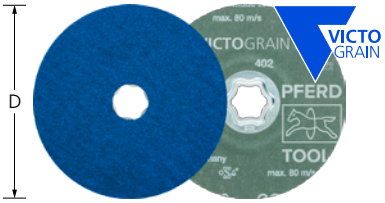


Ceramic oxide grain CO-ALU version

For aggressive grinding with maximum stock removal rate for machining non-ferrous metals. Consistently high performance due to self-sharpening ceramic oxide grain. Adhesion-reducing additives significantly reduce the chip adhesion and therefore reduce clogging of the fibre discs.

Special features:
- The innovative quick-mounting system ensures convenient handling and cool grinding.
- High economic efficiency thanks to long tool life and very high stock removal rate. Consistent surface finish thanks to high-quality abrasives.
- Quick tool changes thanks to the innovative COMBICLICK quick-clamping system. Please order backing pad separately.

D [mm]	Abrasive	Grit size	Max. RPM		Item no.	Designation
115	CO-ALU	36	13,300	25	64194003	CC-FS 115 CO-ALU 36
		60	13,300	25	64194006	CC-FS 115 CO-ALU 60
		80	13,300	25	64194008	CC-FS 115 CO-ALU 80
125	CO-ALU	36	12,200	25	64194103	CC-FS 125 CO-ALU 36
		60	12,200	25	64194106	CC-FS 125 CO-ALU 60
		80	12,200	25	64194108	CC-FS 125 CO-ALU 80

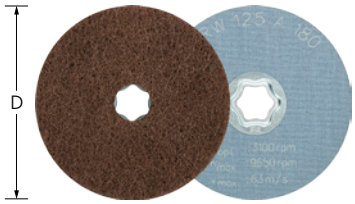


VICTOGRAIN-COOL version

For maximum aggressive grinding with an extremely long tool life, the ultimate stock removal rate and consistently high performance on steel and hard materials which do not conduct heat well. Active grinding additives in the coating prevent clogging and result in cooler grinding.

Special features:
- The innovative quick-mounting system ensures convenient handling and cool grinding.
- High economic efficiency thanks to long tool life and very high stock removal rate. Consistent surface finish thanks to high-quality abrasives.
- Quick tool changes thanks to the innovative COMBICLICK quick-clamping system. Please order backing pad separately.

D [mm]	Abrasive	Grit size	Max. RPM		Item no.	Designation
100	VICTOGRAIN-COOL	36	15,300	25	64110036	CC-FS 100 VICTOGRAIN-COOL 36
		60	15,300	25	64110060	CC-FS 100 VICTOGRAIN-COOL 60
		80	15,300	25	64110080	CC-FS 100 VICTOGRAIN-COOL 80
115	VICTOGRAIN-COOL	36	13,300	25	64111536	CC-FS 115 VICTOGRAIN-COOL 36
		60	13,300	25	64111560	CC-FS 115 VICTOGRAIN-COOL 60
		80	13,300	25	64111580	CC-FS 115 VICTOGRAIN-COOL 80
125	VICTOGRAIN-COOL	36	12,200	25	64112536	CC-FS 125 VICTOGRAIN-COOL 36
		60	12,200	25	64112506	CC-FS 125 VICTOGRAIN-COOL 60
		80	12,200	25	64112508	CC-FS 125 VICTOGRAIN-COOL 80
180	VICTOGRAIN-COOL	36	8,500	25	64118036	CC-FS 180 VICTOGRAIN-COOL 36
		60	8,500	25	64118060	CC-FS 180 VICTOGRAIN-COOL 60
		80	8,500	25	64118080	CC-FS 180 VICTOGRAIN-COOL 80

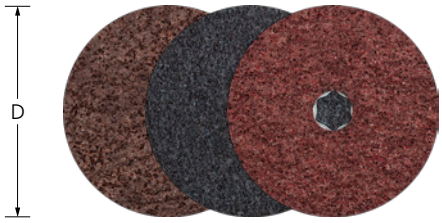


Soft type CC-VRW

Suitable for very fine grinding on medium-sized and large surfaces and contours, and for cleaning metal and painted surfaces. Achieve matt and satin-finished surfaces. Highly open structure.

Special features:
- Ideal for face-down grinding on medium-sized and large surfaces.
- The open structure and high flexibility of the non-woven material prevents tool clogging.
- The innovative quick-mounting system ensures convenient handling and cool grinding. Order necessary backing pad separately.

D [mm]	Abrasive	Grit size	Version	Opt. RPM	Max. RPM		Item no.	Designation
100	A	100	medium	3,800	12,000	10	*42001032*	CC-VRW 100 A 100
		180	fine	3,800	12,000	10	*42001031*	CC-VRW 100 A 180
		280	very fine	3,800	12,000	10	*42001030*	CC-VRW 100 A 280
115	A	100	medium	3,300	10,500	10	42001052	CC-VRW 115 A 100
		180	fine	3,300	10,500	10	42001051	CC-VRW 115 A 180
		280	very fine	3,300	10,500	10	42001050	CC-VRW 115 A 280
125	A	100	medium	3,100	9,650	10	42001062	CC-VRW 125 A 100
		180	fine	3,100	9,650	10	42001061	CC-VRW 125 A 180
		280	very fine	3,100	9,650	10	42001060	CC-VRW 125 A 280



Hard type CC-VRH

Suitable for general work on medium-sized and large metal surfaces, e.g. removing rough grinding traces, removing oxidation and light deburring work. Achieve matt and satin-finished surfaces.

Special features:
- Ideal for face-down grinding on medium-sized and large surfaces.
- Little wear due to high tear strength. The open structure of the non-woven material prevents tool clogging.
- The innovative quick-mounting system ensures convenient handling and cool grinding. Order necessary backing pad separately.

D [mm]	Abrasive	Grit size	Version	Opt. RPM	Max. RPM		Item no.	Designation
100	A	100 G	coarse, yellow-brown	3,800	12,000	10	*42000032*	CC-VRH 100 A 100 G
		180 M	medium, red-brown	3,800	12,000	10	*42000031*	CC-VRH 100 A 180 M
		240 F	fine, blue	3,800	12,000	10	*42000030*	CC-VRH 100 A 240 F
115	A	100 G	coarse, yellow-brown	3,300	10,500	10	42000052	CC-VRH 115 A 100 G
		180 M	medium, red-brown	3,300	10,500	10	42000051	CC-VRH 115 A 180 M
		240 F	fine, blue	3,300	10,500	10	42000050	CC-VRH 115 A 240 F
125	A	100 G	coarse, yellow-brown	3,100	9,650	10	42000062	CC-VRH 125 A 100 G
		180 M	medium, red-brown	3,100	9,650	10	42000061	CC-VRH 125 A 180 M
		240 F	fine, blue	3,100	9,650	10	42000060	CC-VRH 125 A 240 F

Discontinued product

COMBICLICK
Non-woven discs

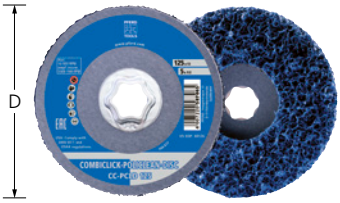
CC-PNER type

For achieving a very fine, uniform surface finish which, depending on requirements, is a sufficient preparation for high-gloss polishing. Especially suitable for work on larger surfaces on components made of stainless steel (INOX). Available in the aluminium oxide A and silicon carbide SiC types.

Special features:
- Ideal for face-down grinding on medium-sized and large surfaces.
- High edge strength thanks to extreme durability.
- The innovative quick-mounting system ensures convenient handling and cool grinding. Order necessary backing pad separately.

D [mm]	Abrasive	Version	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
100	SiC	W (soft)	fine	5,700	9,550	5	*42002036*	CC-PNER W 100 SiC F
		MW (medium-soft)	fine	5,700	9,550	5	*42002076*	CC-PNER MW 100 SiC F
		MH (medium-hard)	fine	5,700	9,550	5	*42002136*	CC-PNER MH 100 SiC F
	A	H (hard)	fine	5,700	9,550	5	*42002172*	CC-PNER H 100 A F
115	SiC	W (soft)	fine	5,000	8,350	5	42002046	CC-PNER W 115 SiC F
		MW (medium-soft)	fine	5,000	8,350	5	42002086	CC-PNER MW 115 SiC F
		MH (medium-hard)	fine	5,000	8,350	5	42002146	CC-PNER MH 115 SiC F
	A	MH (medium-hard)	coarse	5,000	8,350	5	47700202	CC-PNER MH 115 A G
		H (hard)	fine	5,000	8,350	5	42002182	CC-PNER H 115 A F
125	SiC	W (soft)	fine	4,500	7,650	5	42002056	CC-PNER W 125 SiC F
		MW (medium-soft)	fine	4,500	7,650	5	42002096	CC-PNER MW 125 SiC F
		MH (medium-hard)	fine	4,500	7,650	5	42002156	CC-PNER MH 125 SiC F
	A	MH (medium-hard)	coarse	4,500	7,650	5	47700203	CC-PNER MH 125 A G
		H (hard)	fine	4,500	7,650	5	42002192	CC-PNER H 125 A F

POLICLEAN discs



POLICLEAN PLUS type

POLICLEAN is a coarsely structured, abrasive, non-woven cleaning fabric made from a special combination of synthetic fibres, resin and abrasive grain. For coarse cleaning work, such as removing paint, scale, heat discolouration, rust and adhesive residue in peripheral grinding on finer surfaces.

Special features:
- High flexibility and open structure mean optimal adjustment to contours and no clogging of the tool itself.
- The innovative quick-mounting system ensures convenient handling and cool grinding. Please order compatible arbor separately.
- High edge strength thanks to extreme durability.

D [mm]	Abrasive		Item no.	Designation
115	A	5	44692275	CC-PCLD PLUS 115
125	A	5	44692276	CC-PCLD PLUS 125

Discontinued product

POLICLEAN standard type

POLICLEAN is a coarsely structured, abrasive, non-woven cleaning fabric made from a special combination of synthetic fibres, resin and abrasive grain. For coarse cleaning work such as removing paint, scale, heat discolouration, rust and adhesive residues in peripheral grinding.

Special features:

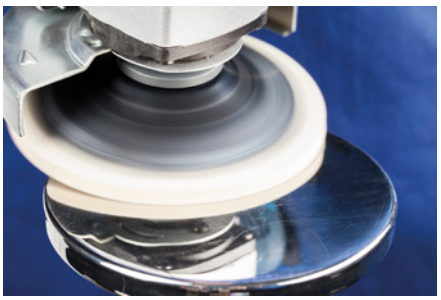
- High flexibility and open structure mean optimal adjustment to contours and no clogging of the tool itself.
- The innovative quick-mounting system ensures convenient handling and cool grinding. Please order compatible arbor separately.
- High edge strength thanks to extreme durability.

D [mm]	Abrasive		Item no.	Designation
115	SiC	5	44692273	CC-PCLD 115
125	SiC	5	44692274	CC-PCLD 125

Felt discs CC-FR

CC-FR type

Suitable for polishing with polishing paste bars, grinding pastes or diamond polishing pastes in face-down grinding on medium-sized and large surfaces.



Special features:

- Ideal for face-down grinding on medium-sized and large surfaces.
- High economic efficiency due to very long tool life. Focused working over the entire lifespan thanks to high dimensional stability.
- The innovative quick-mounting system ensures convenient handling and cool grinding. Order necessary backing pad separately.

D [mm]	Opt. RPM	Max. RPM		Item no.	Designation
100	1,900	12,000	5	42003005	CC-FR 100
115	1,650	10,500	5	42003015	CC-FR 115
125	1,500	9,650	5	42003025	CC-FR 125

CC-GT (medium) type

With this backing pad, COMBICLICK tools can be used on commercially available angle grinders. Various hardness levels for different applications and results.

Special features:
- The innovative quick-mounting system ensures convenient handling and rapid tool changing.
- The geometry of the cooling slots significantly reduces the thermal load. High economic efficiency due to minimal tool change times.
- The hardness CC-GT (medium) is indicated by the black colour.

Suitable for tool diameter [mm]	Thread	Hardness	Suitable for machine types	Max. RPM		Item no.	Designation
100	M10	medium	Angle grinders 100, spindle M10	15,300	1	44890190	CC-GT 100 M10
115, 125	M14	medium	Angle grinders 115 / 125, spindle M14	13,300	1	44890150	CC-GT 115-125 M14
	5/8	medium	Angle grinders 115 / 125, spindle 5/8"	13,300	1	44890160	CC-GT 115-125 5/8
125	M14	medium	Angle grinder 125, spindle M14	12,200	1	44890151	CC-GT 125 M14
	5/8	medium	Angle grinders 125, spindle 5/8"	12,200	1	44890161	CC-GT 125 5/8"
180	M14	medium	Angle grinders 180, spindle M14	8,500	1	44890170	CC-GT 180 M14
	5/8	medium	Angle grinders 180, spindle 5/8"	8,500	1	44890180	CC-GT 180 5/8

CC-S-GT (soft) type

With this backing pad, COMBICLICK tools can be used on commercially available angle grinders.

Special features:
- The innovative quick-mounting system ensures convenient handling and rapid tool changing.
- The geometry of the cooling slots significantly reduces the thermal load. High economic efficiency due to minimal tool change times.
- The hardness CC-S-GT (soft) is indicated by the grey colour.

Suitable for tool diameter [mm]	Thread	Hardness	Suitable for machine types	Max. RPM		Item no.	Designation
115, 125	M14	soft	Angle grinders 115 / 125, spindle M14	13,300	1	44890153	CC-S-GT 115-125 M14
	5/8	soft	Angle grinders 115 / 125, spindle 5/8"	13,300	1	44890163	CC-S-GT 115-125 5/8-11

CC-H-GT (hard) type

With this backing pad, COMBICLICK tools can be used on commercially available angle grinders.

Special features:
- The innovative quick-mounting system ensures convenient handling and rapid tool changing.
- The geometry of the cooling slots significantly reduces the thermal load. High economic efficiency due to minimal tool change times.
- The hardness CC-H-GT (hard) is indicated by the blue colour.

Suitable for tool diameter [mm]	Thread	Hardness	Suitable for machine types	Max. RPM		Item no.	Designation
115, 125	M14	hard	Angle grinders 115 / 125, spindle M14	13,300	1	64199002	CC-H-GT 115-125 M14
	5/8	hard	Angle grinders 115 / 125, spindle 5/8"	13,300	1	64199012	CC-H-GT 115-125 5/8
125	M14	hard	Angle grinder 125, spindle M14	12,200	1	44890152	CC-H-GT 125 M14
	5/8	hard	Angle grinders 125, spindle 5/8"	12,200	1	44890162	CC-H-GT 125 5/8"

CC-SET

Set for work on surfaces, from coarse to mirror-polished.

Contents:
Three each of the following COMBICLICK fibre discs with abrasive and grit size: CO-COOL 36, CO-COOL 120 and A-COOL 220, one each of the following COMBICLICK non-woven discs: VRH A 180 M, VRH A 100 G, VRW A 280, VRW A 180, VRW A 100, PNER W SiC F, one universal polishing paste, one COMBICLICK felt disc and one COMBICLICK backing pad.

Special features:
- The innovative quick-mounting system ensures convenient handling and rapid tool changing.
- Ideal selection for completing a variety of tasks and getting to know the system.
- Coordinated selection of the most common versions.

Diameter [mm]	Thread [mm]		Item no.	Designation
115	5/8-11	1	49350073	CC-SET 115 5/8-11
	M14	1	49350071	CC-SET 115 M14
125	5/8-11	1	49350074	CC-SET 125 5/8-11
	M14	1	49350072	CC-SET 125 M14

Fibre discs
General information

PFERD TOOLS

The quick way to find the perfect tool

Material group ▼			Abrasive ▶ Aluminium oxide A	Zircon Z	Ceramic oxide grain CO	VICTOGRAIN	Aluminium oxide A-COOL	Zircon Z-COOL	Ceramic oxide grain CO-COOL (PLUS)	Ceramic oxide grain CO-ALU	VICTOGRAIN-COOL
Steel, cast steel	Non-hardened, non-heat-treated steels	Construction steels, carbon steels, tool steels, non-alloyed steels, cast steel	●	○	●	●					○
	Hardened, heat-treated steels	Tool steels, tempering steels, alloyed steels, cast steel	○	●	●	●					○
Stainless steel (INOX)	Rust and acid-resistant steels	Austenitic and ferritic stainless steels		○		○	●	●	●		●
Non-ferrous metals	Soft non-ferrous metals, non-ferrous metals	Soft aluminium alloys	○				●	○	○	○	
		Brass, copper, zinc	●	○	○					○	
	Hard non-ferrous metals	Hard aluminium alloys	●	○	○					○	
		Bronze, titanium		○	○	○		●	●		●
	High-temperature-resistant materials	Nickel-based and cobalt-based alloys		○	○	○		●	●	○	●
Cast iron	Grey cast iron, white cast iron	Cast iron with flake graphite EN-GJL (GG), with nodular graphite/nodular cast iron EN-GJS (GGG), white annealed cast iron EN-GJMW (GTW), black annealed cast iron EN-GJMB (GTS)	●	○	●						
Plastics, other materials		Fibre-reinforced plastics, thermoplastics, wood, chipboard, paint	●								

● = highly suitable ○ = suitable

Safety notes

- The maximum permitted peripheral speed is 80 m/s.
- For safety reasons, the maximum permitted rotational speed indicated must never be exceeded.

Wear eye protection!

Wear hearing protection!

Wear gloves!

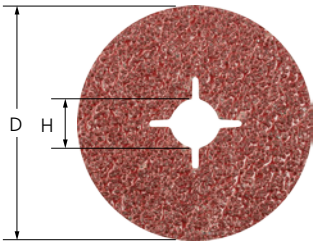
Wear a dust mask!

Use backing pad!

Follow the safety instructions!

Not permitted for wet grinding!

Fibre discs
Fibre discs FS

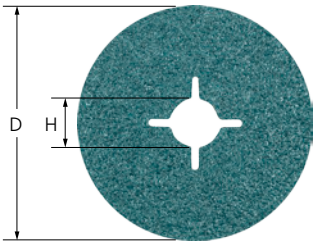


Aluminium oxide A version

For general grinding work from coarse to fine grinding in industry and professional trades.

Special features:
- High economic efficiency thanks to long tool life and very high stock removal rate.
- Consistent surface finish thanks to high-quality abrasives. Highly flexible, enabling optimal adjustment to the contour.
- Optimal adjustment to the contour in conjunction with the matching backing pad. Please order backing pad separately.

D [mm]	H [mm]	Abrasive	Grit size	Max. RPM		Item no.	Designation
slotted							
115	22	A	16	13,300	25	64101111	FS 115-22 A 16
			24	13,300	25	64102111	FS 115-22 A 24
			36	13,300	25	64103111	FS 115-22 A 36
			50	13,300	25	64105111	FS 115-22 A 50
			60	13,300	25	64106111	FS 115-22 A 60
			80	13,300	25	64108111	FS 115-22 A 80
			100	13,300	25	64110111	FS 115-22 A 100
			120	13,300	25	64112111	FS 115-22 A 120
125	22	A	16	12,200	25	64101125	FS 125-22 A 16
			24	12,200	25	64102125	FS 125-22 A 24
			36	12,200	25	64103125	FS 125-22 A 36
			50	12,200	25	64105125	FS 125-22 A 50
			60	12,200	25	64106125	FS 125-22 A 60
			80	12,200	25	64108125	FS 125-22 A 80
			100	12,200	25	64110125	FS 125-22 A 100
			120	12,200	25	64112125	FS 125-22 A 120
150	22	A	36	10,200	25	64103155	FS 150-22 A 36
			60	10,200	25	64106155	FS 150-22 A 60
			80	10,200	25	64108155	FS 150-22 A 80
180	22	A	16	8,500	25	64101175	FS 180-22 A 16
			24	8,500	25	64102175	FS 180-22 A 24
			36	8,500	25	64103175	FS 180-22 A 36
			50	8,500	25	64105175	FS 180-22 A 50
			60	8,500	25	64106175	FS 180-22 A 60
			80	8,500	25	64108175	FS 180-22 A 80
			100	8,500	25	64110175	FS 180-22 A 100
			120	8,500	25	64112175	FS 180-22 A 120
unslotted							
100	16	A	16	15,300	25	69401127	FS 100-16 A 16
			24	15,300	25	69401016	FS 100-16 A 24
			36	15,300	25	69401015	FS 100-16 A 36
			50	15,300	25	69401065	FS 100-16 A 50
			60	15,300	25	69401023	FS 100-16 A 60
			80	15,300	25	69401024	FS 100-16 A 80
			100	15,300	25	69401019	FS 100-16 A 100
			120	15,300	25	69401067	FS 100-16 A 120



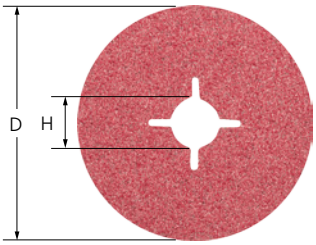
Zirconia alumina Z version

For coarse grinding work with a high stock removal rate and a long tool life.

Special features:
- High economic efficiency thanks to long tool life and very high stock removal rate.
- Consistent surface finish thanks to high-quality abrasives. Highly flexible, enabling optimal adjustment to the contour.
- Optimal adjustment to the contour in conjunction with the matching backing pad. Please order backing pad separately.

D [mm]	H [mm]	Abrasive	Grit size	Max. RPM		Item no.	Designation
slotted							
115	22	Z	24	13,300	25	64202111	FS 115-22 Z 24
			36	13,300	25	64203111	FS 115-22 Z 36
			50	13,300	25	64205111	FS 115-22 Z 50
			60	13,300	25	64206111	FS 115-22 Z 60
			80	13,300	25	64208111	FS 115-22 Z 80
			120	13,300	25	64212111	FS 115-22 Z 120
125	22	Z	24	12,200	25	64202125	FS 125-22 Z 24
			36	12,200	25	64203125	FS 125-22 Z 36
			50	12,200	25	64205125	FS 125-22 Z 50
			60	12,200	25	64206125	FS 125-22 Z 60
			80	12,200	25	64208125	FS 125-22 Z 80
			120	12,200	25	64212125	FS 125-22 Z 120
180	22	Z	24	8,500	25	64202175	FS 180-22 Z 24
			36	8,500	25	64203175	FS 180-22 Z 36
			50	8,500	25	64205175	FS 180-22 Z 50
			60	8,500	25	64206175	FS 180-22 Z 60
			80	8,500	25	64208175	FS 180-22 Z 80
			120	8,500	25	64212175	FS 180-22 Z 120
unslotted							
100	16	Z	24	15,300	25	*69401548*	FS 100-16 Z 24
			36	15,300	25	*69401549*	FS 100-16 Z 36
			50	15,300	25	*69401550*	FS 100-16 Z 50
			60	15,300	25	*69401495*	FS 100-16 Z 60
			80	15,300	25	*69401551*	FS 100-16 Z 80
			100	15,300	25	*69401496*	FS 100-16 Z 100
			120	15,300	25	*69401552*	FS 100-16 Z 120

Discontinued product

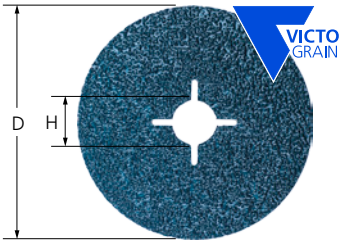


Ceramic oxide grain CO version

For aggressive grinding with maximum stock removal rate and very long tool life. Consistently high performance due to self-sharpening ceramic oxide grain. The ceramic oxide grain is specifically designed for work on hard materials and layers.

Special features:
- High economic efficiency thanks to long tool life and very high stock removal rate.
- Consistent surface finish thanks to high-quality abrasives. Highly flexible, enabling optimal adjustment to the contour.
- Optimal adjustment to the contour in conjunction with the matching backing pad. Please order backing pad separately.

D [mm]	H [mm]	Abrasive	Grit size	Max. RPM		Item no.	Designation
slotted							
115	22	CO	24	13,300	25	64152111	FS 115-22 CO 24
			36	13,300	25	64153111	FS 115-22 CO 36
			60	13,300	25	64156111	FS 115-22 CO 60
			80	13,300	25	64158111	FS 115-22 CO 80
125	22	CO	24	12,200	25	64152125	FS 125-22 CO 24
			36	12,200	25	64153125	FS 125-22 CO 36
			50	12,200	25	64155125	FS 125-22 CO 50
			60	12,200	25	64156125	FS 125-22 CO 60
			80	12,200	25	64158125	FS 125-22 CO 80
180	22	CO	24	8,500	25	64152175	FS 180-22 CO 24
			36	8,500	25	64153175	FS 180-22 CO 36
			60	8,500	25	64156175	FS 180-22 CO 60
			80	8,500	25	64158175	FS 180-22 CO 80



VICTOGRAIN version

For maximum aggressive grinding with an extremely long tool life and the ultimate stock removal rate on steel and hard materials. The ultimate, consistently high performance.

Special features:
- High economic efficiency thanks to long tool life and very high stock removal rate.
- Consistent surface finish thanks to high-quality abrasives. Highly flexible, enabling optimal adjustment to the contour.
- Optimal adjustment to the contour in conjunction with the matching backing pad. Please order backing pad separately.

D [mm]	H [mm]	Abrasive	Grit size	Max. RPM		Item no.	Designation
slotted							
115	22	VICTOGRAIN	36	13,300	25	64279012	FS 115-22 VICTOGRAIN 36
			60	13,300	25	64279021	FS 115-22 VICTOGRAIN 60
			80	13,300	25	64279022	FS 115-22 VICTOGRAIN 80
125	22	VICTOGRAIN	36	12,200	25	64279013	FS 125-22 VICTOGRAIN 36
			60	12,200	25	64279023	FS 125-22 VICTOGRAIN 60
			80	12,200	25	64279024	FS 125-22 VICTOGRAIN 80
150	22	VICTOGRAIN	36	10,200	25	64279018	FS 150-22 VICTOGRAIN 36
			60	10,200	25	64279025	FS 150-22 VICTOGRAIN 60
			80	10,200	25	64279026	FS 150-22 VICTOGRAIN 80
180	22	VICTOGRAIN	36	8,500	25	64279014	FS 180-22 VICTOGRAIN 36
			60	8,500	25	64279027	FS 180-22 VICTOGRAIN 60

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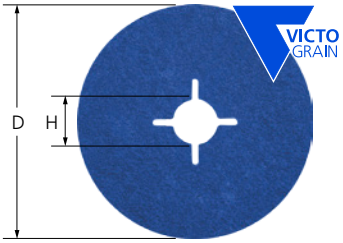
D [mm]	H [mm]	Abrasive	Grit size	Max. RPM		Item no.	Designation
180	22	VICTOGRAIN	80	8,500	25	64279028	FS 180-22 VICTOGRAIN 80
unslotted							
100	16	VICTOGRAIN	36	15,300	25	64279011	FS 100-16 VICTOGRAIN 36
			60	15,300	25	64279019	FS 100-16 VICTOGRAIN 60
			80	15,300	25	64279020	FS 100-16 VICTOGRAIN 80

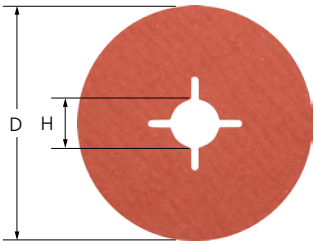


VICTOGRAIN-COOL version

For maximum aggressive grinding with an extremely long tool life, the ultimate stock removal rate and consistently high performance on steel and hard materials which do not conduct heat well. Active grinding additives in the coating prevent clogging and result in cooler grinding.

Special features:
- High economic efficiency thanks to long tool life and very high stock removal rate.
- Consistent surface finish thanks to high-quality abrasives. Highly flexible, enabling optimal adjustment to the contour.
- Optimal adjustment to the contour in conjunction with the matching backing pad. Please order backing pad separately.

D [mm]	H [mm]	Abrasive	Grit size	Max. RPM		Item no.	Designation
slotted							
115	22	VICTOGRAIN-COOL	36	13,300	25	64279002	FS 115-22 VICTOGRAIN-COOL 36
			60	13,300	25	64279031	FS 115-22 VICTOGRAIN-COOL 60
			80	13,300	25	64279032	FS 115-22 VICTOGRAIN-COOL 80
125	22	VICTOGRAIN-COOL	36	12,200	25	64279003	FS 125-22 VICTOGRAIN-COOL 36
			60	12,200	25	64279033	FS 125-22 VICTOGRAIN-COOL 60
			80	12,200	25	64279034	FS 125-22 VICTOGRAIN-COOL 80
150	22	VICTOGRAIN-COOL	36	10,200	25	69401655	FS 150-22 VICTOGRAIN-COOL 36
			60	10,200	25	64279035	FS 150-22 VICTOGRAIN-COOL 60
			80	10,200	25	64279036	FS 150-22 VICTOGRAIN-COOL 80
180	22	VICTOGRAIN-COOL	36	8,500	25	64279004	FS 180-22 VICTOGRAIN-COOL 36
			60	8,500	25	64279037	FS 180-22 VICTOGRAIN-COOL 60
			80	8,500	25	64279038	FS 180-22 VICTOGRAIN-COOL 80
unslotted							
100	16	VICTOGRAIN-COOL	36	15,300	25	64279001	FS 100-16 VICTOGRAIN-COOL 36
			60	15,300	25	64279029	FS 100-16 VICTOGRAIN-COOL 60
			80	15,300	25	64279030	FS 100-16 VICTOGRAIN-COOL 80

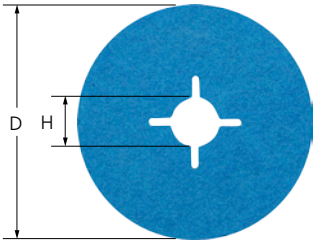


Aluminium oxide A-COOL version

For general grinding work from fine to very fine grinding on materials which do not conduct heat well, e.g. stainless steel (INOX). Active grinding additives substantially improve the stock removal rate, prevent clogging and result in cooler grinding.

Special features:
- High economic efficiency thanks to long tool life and very high stock removal rate.
- Consistent surface finish thanks to high-quality abrasives. Highly flexible, enabling optimal adjustment to the contour.
- Optimal adjustment to the contour in conjunction with the matching backing pad. Please order backing pad separately.

D [mm]	H [mm]	Abrasive	Grit size	Max. RPM		Item no.	Designation
slotted							
115	22	A-COOL	50	13,300	25	64125111	FS 115-22 A-COOL 50
			60	13,300	25	64126111	FS 115-22 A-COOL 60
			80	13,300	25	64128111	FS 115-22 A-COOL 80
			120	13,300	25	64132111	FS 115-22 A-COOL 120
			150	13,300	25	64135111	FS 115-22 A-COOL 150
			180	13,300	25	64138111	FS 115-22 A-COOL 180
			220	13,300	25	64142111	FS 115-22 A-COOL 220
125	22	A-COOL	60	12,200	25	64126125	FS 125-22 A-COOL 60
			80	12,200	25	64128125	FS 125-22 A-COOL 80
			120	12,200	25	64132125	FS 125-22 A-COOL 120
			150	12,200	25	64135125	FS 125-22 A-COOL 150
			180	12,200	25	64138125	FS 125-22 A-COOL 180
			220	12,200	25	64142125	FS 125-22 A-COOL 220
180	22	A-COOL	80	8,500	25	64128175	FS 180-22 A-COOL 80
			120	8,500	25	64132175	FS 180-22 A-COOL 120
			150	8,500	25	64135175	FS 180-22 A-COOL 150
			180	8,500	25	64138175	FS 180-22 A-COOL 180
			220	8,500	25	64142175	FS 180-22 A-COOL 220

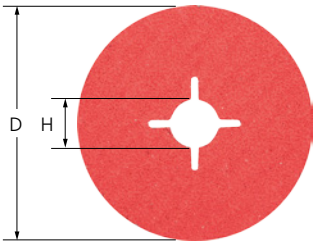


Zirconia alumina Z-COOL version

For coarse grinding work with a high stock removal rate and cool grinding. Active grinding additives substantially improve the stock removal rate, prevent clogging and result in cooler grinding.

Special features:
- High economic efficiency thanks to long tool life and very high stock removal rate.
- Consistent surface finish thanks to high-quality abrasives. Highly flexible, enabling optimal adjustment to the contour.
- Optimal adjustment to the contour in conjunction with the matching backing pad. Please order backing pad separately.

D [mm]	H [mm]	Abrasive	Grit size	Max. RPM		Item no.	Designation
slotted							
125	22	Z-COOL	36	12,200	25	64273125	FS 125-22 Z-COOL 36
			60	12,200	25	64276125	FS 125-22 Z-COOL 60
			80	12,200	25	64278125	FS 125-22 Z-COOL 80



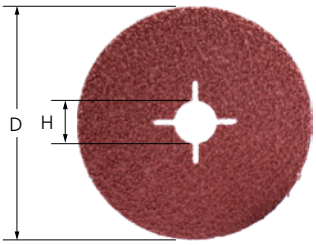
Ceramic oxide grain CO-COOL version

Consistently high performance and aggressive grinding due to self-sharpening ceramic oxide grain. Active grinding additives improve the stock removal rate, prevent clogging and result in cooler grinding on hard materials which do not conduct heat well.

Special features:

- High economic efficiency thanks to long tool life and very high stock removal rate.
- Consistent surface finish thanks to high-quality abrasives. Highly flexible, enabling optimal adjustment to the contour.
- Optimal adjustment to the contour in conjunction with the matching backing pad. Please order backing pad separately.

D [mm]	H [mm]	Abrasive	Grit size	Max. RPM		Item no.	Designation
slotted							
115	22	CO-COOL	24	13,300	25	64172111	FS 115-22 CO-COOL 24
			36	13,300	25	64173111	FS 115-22 CO-COOL 36
			50	13,300	25	64175111	FS 115-22 CO-COOL 50
			60	13,300	25	64176111	FS 115-22 CO-COOL 60
			80	13,300	25	64178111	FS 115-22 CO-COOL 80
			100	13,300	25	64180111	FS 115-22 CO-COOL 100
			120	13,300	25	64182111	FS 115-22 CO-COOL 120
125	22	CO-COOL	24	12,200	25	64172125	FS 125-22 CO-COOL 24
			36	12,200	25	64173125	FS 125-22 CO-COOL 36
			50	12,200	25	64175125	FS 125-22 CO-COOL 50
			60	12,200	25	64176125	FS 125-22 CO-COOL 60
			80	12,200	25	64178125	FS 125-22 CO-COOL 80
			100	12,200	25	64180125	FS 125-22 CO-COOL 100
			120	12,200	25	64182125	FS 125-22 CO-COOL 120
180	22	CO-COOL	24	8,500	25	64172175	FS 180-22 CO-COOL 24
			36	8,500	25	64173175	FS 180-22 CO-COOL 36
			50	8,500	25	64175175	FS 180-22 CO-COOL 50
			60	8,500	25	64176175	FS 180-22 CO-COOL 60
			80	8,500	25	64178175	FS 180-22 CO-COOL 80
			100	8,500	25	64180175	FS 180-22 CO-COOL 100
			120	8,500	25	64182175	FS 180-22 CO-COOL 120
unslotted							
100	16	CO-COOL	24	15,300	25	69401583	FS 100-16 CO-COOL 24
			36	15,300	25	69401553	FS 100-16 CO-COOL 36
			50	15,300	25	69401554	FS 100-16 CO-COOL 50
			60	15,300	25	69401555	FS 100-16 CO-COOL 60
			80	15,300	25	69401556	FS 100-16 CO-COOL 80
			120	15,300	25	69401584	FS 100-16 CO-COOL 120

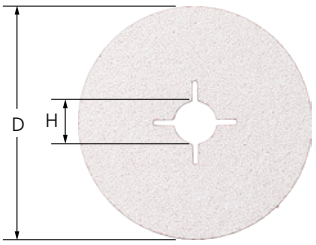


Ceramic oxide grain CO-COOL PLUS version

Consistently high performance and maximum aggressive grinding due to self-sharpening ceramic oxide grain. Active grinding additives improve the stock removal rate, prevent clogging and result in very cool grinding on hard materials which do not conduct heat well.

Special features:
- High economic efficiency thanks to long tool life and the ultimate stock removal rate.
- Consistent surface finish thanks to high-quality abrasives. Highly flexible, enabling optimal adjustment to the contour.

D [mm]	H [mm]	Abrasive	Grit size	Max. RPM		Item no.	Designation
slotted							
115	22	CO-COOL-PLUS	24	13,300	25	64172115	FS115-22 CO-COOL PLUS 24
125	22	CO-COOL-PLUS	24	12,200	25	64172126	FS125-22 CO-COOL PLUS 24
180	22	CO-COOL-PLUS	24	8,500	25	64172180	FS180-22 CO-COOL PLUS 24



Ceramic oxide grain CO-ALU version

For aggressive grinding with maximum stock removal rate for machining non-ferrous metals. Consistently high performance due to self-sharpening ceramic oxide grain. Adhesion-reducing additives in the coating significantly reduce the chip adhesion and therefore reduce clogging of the fibre discs.

Special features:
- High economic efficiency thanks to long tool life and very high stock removal rate.
- Consistent surface finish thanks to high-quality abrasives. Highly flexible, enabling optimal adjustment to the contour.
- Optimal adjustment to the contour in conjunction with the matching backing pad. Please order backing pad separately.

D [mm]	H [mm]	Abrasive	Grit size	Max. RPM		Item no.	Designation
slotted							
115	22	CO-ALU	36	13,300	25	*64281136*	FS 115-22 CO-ALU 36
			60	13,300	25	*64281160*	FS 115-22 CO-ALU 60
			80	13,300	25	*64281180*	FS 115-22 CO-ALU 80
125	22	CO-ALU	36	12,200	25	64281236	FS 125-22 CO-ALU 36
			60	12,200	25	64281260	FS 125-22 CO-ALU 60
			80	12,200	25	64281280	FS 125-22 CO-ALU 80
180	22	CO-ALU	36	8,500	25	64281836	FS 180-22 CO-ALU 36
			60	8,500	25	64281860	FS 180-22 CO-ALU 60
			80	8,500	25	64281880	FS 180-22 CO-ALU 80
unslotted							
100	16	CO-ALU	36	15,300	25	64281036	FS 100-16 CO-ALU 36
			60	15,300	25	*64281060*	FS 100-16 CO-ALU 60
			80	15,300	25	*64281080*	FS 100-16 CO-ALU 80

Discontinued product

GT type

Backing pad for fibre discs for optimum adaptation to contours thanks to high flexibility. Complies with ISO 15636.

Special features:
- For use with fibre discs on commercially available angle grinders.

Suitable for tool diameter [mm]	Thread	Suitable for machine types	Max. RPM		Item no.	Designation
100	M10	Angle grinders 100, spindle M10	15,300	1	44890015	GT 100 MF M10
115	M10	Angle grinders 115, spindle M10	13,300	1	44890020	GT 115 MF M10
	M14	Angle grinders 115, spindle M14	13,300	1	44890030	GT 115 MF M14
125	M14	Angle grinder 125, spindle M14	12,200	1	44890040	GT 125 MF M14
150	M14	Angle grinders 150, spindle M14	10,200	1	44890050	GT 150 MF M14
180	M14	Angle grinders 180, spindle M14	8,500	1	44890060	GT 180 MF M14

H-GT type

High-performance backing pad for fibre discs with a long tool life thanks to abrasion-resistant, glass-fibre-reinforced plastic. Impresses with particularly cool grinding due to radially arranged cooling fins, and high fibre-disc stock removal rate due to sturdy, rigid design.

Special features:
- For use with fibre discs on commercially available angle grinders.

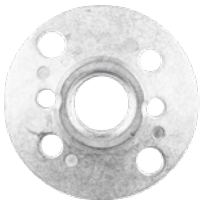
Suitable for tool diameter [mm]	Thread	Suitable for machine types	Max. RPM		Item no.	Designation
115	M14	Angle grinders 115, spindle M14	13,300	1	44890080	H-GT 115 MF M14
125	M14	Angle grinder 125, spindle M14	12,200	1	44890090	H-GT 125 MF M14
180	M14	Angle grinders 180, spindle M14	8,500	1	44890100	H-GT 180 MF M14

HT-GT type

Flexible and extremely temperature-resistant backing pad for fibre discs with a long tool life due to the highly temperature-resistant material. Enables high-precision work thanks to high flexibility. Complies with ISO 15636.

Special features:
- For use with fibre discs on commercially available angle grinders.

Suitable for tool diameter [mm]	Thread	Suitable for machine types	Max. RPM		Item no.	Designation
115	M14	Angle grinders 115, spindle M14	13,300	1	44890200	HT-GT 115 MF M14
125	M14	Angle grinder 125, spindle M14	12,200	1	44890210	HT-GT 125 MF M14
180	M14	Angle grinders 180, spindle M14	8,500	1	44890220	HT-GT 180 MF M14



Clamping nuts FL-GT for backing pads GT

Accessories for GT-variant backing pads.

Special features:
- Matching centre hole distances for standard commercial face pin spanners.

Thread	Suitable for machine types		Item no.	Designation
M10	Angle grinders 100, spindle M10	1	44890110	FL-GT 100 M10
	Angle grinders 115, spindle M10	1	44890111	FL-GT 115 M10
M14	Angle grinder 80-115, spindle M14	1	44890120	FL-GT 80-115 M14
	Angle grinder 125, spindle M14	1	44890130	FL-GT 125 M14
	Angle grinder 150-230, spindle M14	1	44890140	FL-GT 150-230 M14

Stand

Stand for fibre discs

Stand made from impact-resistant plastic for the secure storage of fibre discs exactly in line with their shape. The holder can be stood upright, as well as bolted to walls.

Special features:
- Perfect storage of fibre grinding discs.
- With quick adjustment device and attachment holes on the base.
- Suitable for fibre disc diameters 100 mm to 230 mm.

	Item no.	Designation
1	44858015	STORAGE FS-S 100-230

Hook and loop discs
General information

Safety notes

- The maximum permitted peripheral speed is 32 m/s.
- For safety reasons, the maximum permitted rotational speed indicated must never be exceeded.
- Place the hook and loop discs centrally on the holder.

Wear eye protection!

Wear hearing protection!

Wear gloves!

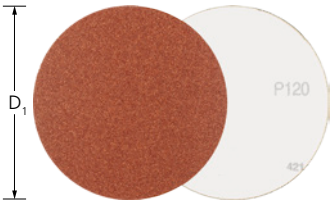
Wear a dust mask!

Use backing pad!

Follow the safety instructions!

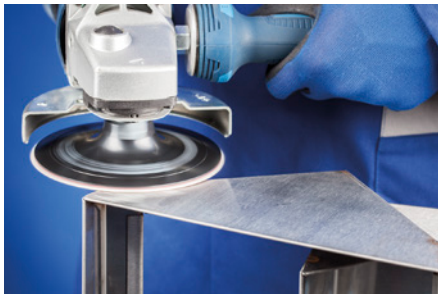
Not permitted for wet grinding!

Hook and loop discs KR



Aluminium oxide A version

These hook and loop discs are suitable for general coarse to fine grinding work on larger surfaces in industry and professional trades.

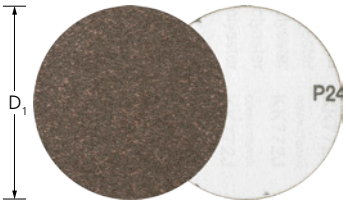


Special features:

- Quick tool changes thanks to hook and loop system.
- Highly flexible, enabling optimal adjustment to the contour.
- With the hook and loop disc holder, can be used on commercially available speed-adjustable or slow-running angle grinders with M14 mounting.

D_1 [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
115	A	40	5,000	5,300	50	42871104	KR 115 A 40
		60	5,000	5,300	50	42871106	KR 115 A 60
		80	5,000	5,300	50	42871108	KR 115 A 80
		120	5,000	5,300	50	42871112	KR 115 A 120
		150	5,000	5,300	50	42871115	KR 115 A 150
		180	5,000	5,300	50	42871118	KR 115 A 180
125	A	40	4,600	4,850	50	42871204	KR 125 A 40
		60	4,600	4,850	50	42871206	KR 125 A 60
		80	4,600	4,850	50	42871208	KR 125 A 80
		120	4,600	4,850	50	42871212	KR 125 A 120
		150	4,600	4,850	50	42871215	KR 125 A 150
		180	4,600	4,850	50	42871218	KR 125 A 180

Hook and loop discs
Hook and loop discs KR



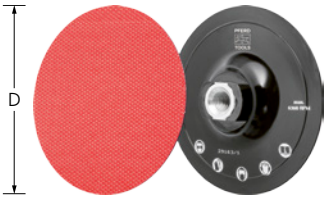
Aluminium oxide A compact grain version

The wide range of different grains makes this range exceptionally well-suited to fine and very fine grinding, and for step-by-step preparations for polishing larger surfaces.

Special features:
- Quick tool changes thanks to hook and loop system. Highly flexible, enabling optimal adjustment to the contour.
- Very long tool life and consistent surface roughness over the entire lifespan thanks to self-sharpening compact grain.

D_1 [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
115	A-CK	120	5,000	5,300	50	42870004	KR 115 A 120 CK
		180	5,000	5,300	50	42870006	KR 115 A 180 CK
		240	5,000	5,300	50	42870008	KR 115 A 240 CK
		320	5,000	5,300	50	42870010	KR 115 A 320 CK
		400	5,000	5,300	50	42870012	KR 115 A 400 CK
		600	5,000	5,300	50	42870014	KR 115 A 600 CK
		800	5,000	5,300	50	42870016	KR 115 A 800 CK
		1000	5,000	5,300	50	42870018	KR 115 A 1000 CK
		1200	5,000	5,300	50	*42870020*	KR 115 A 1200 CK
125	A-CK	120	4,600	4,850	50	42870104	KR 125 A 120 CK
		180	4,600	4,850	50	42870106	KR 125 A 180 CK
		240	4,600	4,850	50	42870108	KR 125 A 240 CK
		320	4,600	4,850	50	42870110	KR 125 A 320 CK
		400	4,600	4,850	50	42870112	KR 125 A 400 CK
		600	4,600	4,850	50	42870114	KR 125 A 600 CK
		800	4,600	4,850	50	*42870116*	KR 125 A 800 CK
		1000	4,600	4,850	50	*42870118*	KR 125 A 1000 CK
		1200	4,600	4,850	50	*42870120*	KR 125 A 1200 CK

Hook and loop disc holders KRH



KRH type

Flexible arbor for using hook and loop discs on speed-adjustable or slow-running angle grinders with M14 mounting.

Special features:
- Quick tool changes thanks to hook and loop system.

D [mm]	Thread	Hardness	Max. RPM		Item no.	Designation
115	M14	soft	5,300	1	42710155	KRH-S 115 M14
		medium	5,300	1	42710154	KRH 115 M14
125	M14	soft	4,850	1	42710255	KRH-S 125 M14
		medium	4,850	1	42710254	KRH 125 M14

Discontinued product

Self-adhesive abrasive discs
General information

Safety notes

- The maximum permitted peripheral speed is 20 m/s.
- For safety reasons, the maximum permitted rotational speed indicated must never be exceeded.

Wear eye protection!

Wear hearing protection!

Wear gloves!

Wear a dust mask!

Follow the safety instructions!

Self-adhesive abrasive discs PSA

Aluminium oxide A version

Self-adhesive abrasive discs specifically for tool and mould-making. For heavily contoured, delicate components. Different surface quality levels from coarse to very fine can be successively achieved.

Special features:

- Highly flexible, enabling optimal adjustment to the contour.
- Disc securely held on the holder thanks to high-quality adhesive connection.
- Quick and easy tool change. Please order abrasive disc holder separately.

D_1 [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
12	A	60	16,000	31,800	100	42832006	PSA 12 A 60
		80	16,000	31,800	100	42832008	PSA 12 A 80
		120	16,000	31,800	100	42832012	PSA 12 A 120
		180	16,000	31,800	100	42832018	PSA 12 A 180
		240	16,000	31,800	100	42832024	PSA 12 A 240
		320	16,000	31,800	100	42832032	PSA 12 A 320
		400	16,000	31,800	100	42832040	PSA 12 A 400
		600	16,000	31,800	100	42832060	PSA 12 A 600
20	A	60	10,000	19,100	100	42832106	PSA 20 A 60
		80	10,000	19,100	100	42832108	PSA 20 A 80
		120	10,000	19,100	100	42832112	PSA 20 A 120
		180	10,000	19,100	100	42832118	PSA 20 A 180
		240	10,000	19,100	100	42832124	PSA 20 A 240
		320	10,000	19,100	100	42832132	PSA 20 A 320
		400	10,000	19,100	100	42832140	PSA 20 A 400
		600	10,000	19,100	100	42832160	PSA 20 A 600
30	A	60	6,500	12,700	100	42832206	PSA 30 A 60
		80	6,500	12,700	100	42832208	PSA 30 A 80
		120	6,500	12,700	100	42832212	PSA 30 A 120
		180	6,500	12,700	100	42832218	PSA 30 A 180
		240	6,500	12,700	100	42832224	PSA 30 A 240
		320	6,500	12,700	100	42832232	PSA 30 A 320
		400	6,500	12,700	100	42832240	PSA 30 A 400

Continued on next page

Self-adhesive abrasive discs

Self-adhesive abrasive discs PSA

D_1 [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
30	A	600	6,500	12,700	100	42832260	PSA 30 A 600
50	A	60	4,000	7,650	100	42832306	PSA 50 A 60
		80	4,000	7,650	100	42832308	PSA 50 A 80
		120	4,000	7,650	100	42832312	PSA 50 A 120
		180	4,000	7,650	100	42832318	PSA 50 A 180
		240	4,000	7,650	100	42832324	PSA 50 A 240
		320	4,000	7,650	100	42832332	PSA 50 A 320
		400	4,000	7,650	100	42832340	PSA 50 A 400
		600	4,000	7,650	100	42832360	PSA 50 A 600

Abrasive disc holder PSA-H

PSA-H version

Flexible abrasive disc holder for using self-adhesive abrasive discs, specifically for tool and mould construction.

Special features:

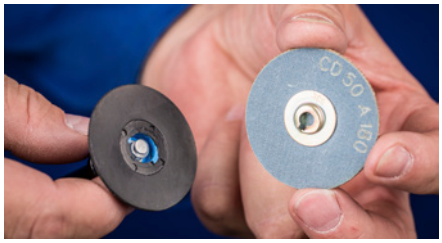
- Highly flexible, enabling optimal adjustment to the contour.
- Quick and easy tool change.
- Secure hold of the disc on the holder thanks to high-quality adhesive connections.

D [mm]	S [mm]	L [mm]	Max. RPM	Suitable for		Item no.	Designation
10	2.35	35	31,800	PSA 12	5	42160000	PSA-H 12-2,35
18	2.35	35	19,100	PSA 20	5	42160002	PSA-H 20-2,35
25	2.35	35	12,700	PSA 30	5	42160004	PSA-H 30-2,35
10	3	35	31,800	PSA 12	5	42160001	PSA-H 12-3
18	3	35	19,100	PSA 20	5	42160003	PSA-H 20-3
25	3	35	12,700	PSA 30	5	42160005	PSA-H 30-3
50	3	35	7,650	PSA 50	5	42160007	PSA-H 50-3
	6	35	7,650	PSA 50	5	42160006	PSA-H 50-6

COMBIDISC
General information

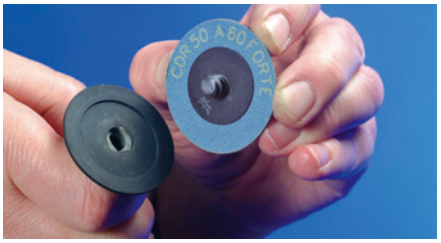
PFERD TOOLS

COMBIDISC clamping system CD and CDR



CD system

Tool side: threaded connection with female thread (metal/plastic).



CDR system

Tool side: threaded connection with male thread (plastic).

The quick way to find the perfect tool

Material group ▼			Abrasive ▶ Aluminium oxide A, A-PLUS, A-FLEX, A-CONTOUR, A-FORTE	Aluminium oxide A, compact grain	Zirconia alumina Z	Silicon carbide SiC	Aluminium oxide A-COOL	Ceramic oxide grain CO-COOL	VICTOGRAIN-COOL	Abrasive discs Diamond	POLICLEAN discs	Non-woven discs PNER, VRH, VRW
Steel, cast steel	Non-hardened, non-heat-treated steels	Construction steels, carbon steels, tool steels, non-alloyed steels, cast steel	●		○			●	●		●	●
	Hardened, heat-treated steels	Tool steels, tempering steels, alloyed steels, cast steel	○	●	●			●	●		○	○
Stainless steel (INOX)	Rust and acid-resistant steels	Austenitic and ferritic stainless steels		●	○		●	●	●		●	●
Non-ferrous metals	Soft non-ferrous metals, non-ferrous metals	Soft aluminium alloys	○				●	○			●	●
		Brass, copper, zinc	●		○						●	●
	Hard non-ferrous metals	Hard aluminium alloys	●		○	○					●	●
		Bronze, titanium			○	●		●	●	●	○	●
	High-temperature-resistant materials	Nickel-based and cobalt-based alloys			○			●	●	●	○	●
Cast iron	Grey cast iron, white cast iron	Cast iron with flake graphite EN-GJL (GG), with nodular graphite/ nodular cast iron EN-GJS (GGG), white annealed cast iron EN-GJMW (GTW), black annealed cast iron EN-GJMB (GTS)	●		○						●	●
Plastics, other materials		Fibre-reinforced plastics, thermoplastics, wood, chipboard, paint	●			●				●	●	●

● = highly suitable ○ = suitable

Safety notes

- The maximum permitted peripheral speed is 50 m/s.
- For safety reasons, the maximum permitted rotational speed indicated must never be exceeded.

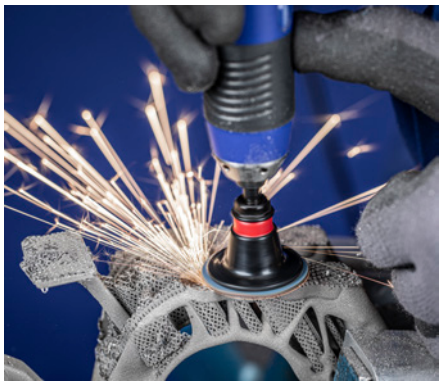
Wear eye protection!

Wear hearing protection!

Wear gloves!

Wear a dust mask!

Follow the safety instructions!



Mini-POLIFAN CD, CDR

Aluminium oxide A version

For general coarse grinding work with high stock removal rates. Ideal for dressing weld seams in hard-to-reach places. Longer tool life and higher stock removal rate when compared to abrasive discs.

Special features:
- Very comfortable due to ease of use and low-vibration working.
- No disruptions in use due to adhesion, slipping or coming loose.
- High economic efficiency as tool can be changed quickly thanks to innovative COMBIDISC clamping system. Please order abrasive disc holder separately.

D_1 [mm]	Abrasive	Grit size	Suitable arbors	Opt. RPM		Item no.	Designation
CD system							
50	A	40	SBH 20–50, BO PFF 50	12,000 – 14,000	10	42719104	CD PFF 50 A 40
		60	SBH 20–50, BO PFF 50	12,000 – 14,000	10	42719106	CD PFF 50 A 60
		80	SBH 20–50, BO PFF 50	12,000 – 14,000	10	42719108	CD PFF 50 A 80
		120	SBH 20–50, BO PFF 50	12,000 – 14,000	10	42719112	CD PFF 50 A 120
75	A	40	SBH 75, BO PFF 75	8,000 – 10,000	10	42719204	CD PFF 75 A 40
		60	SBH 75, BO PFF 75	8,000 – 10,000	10	42719206	CD PFF 75 A 60
		80	SBH 75, BO PFF 75	8,000 – 10,000	10	42719208	CD PFF 75 A 80
		120	SBH 75, BO PFF 75	8,000 – 10,000	10	42719212	CD PFF 75 A 120
CDR system							
50	A	40	SBHR 20–75	12,000 – 14,000	10	47202527	CDR PFF 50 A 40
		60	SBHR 20–75	12,000 – 14,000	10	47202528	CDR PFF 50 A 60
		80	SBHR 20–75	12,000 – 14,000	10	47202090	CDR PFF 50 A 80
		120	SBHR 20–75	12,000 – 14,000	10	47202529	CDR PFF 50 A 120
75	A	40	SBHR 20–75	8,000 – 10,000	10	47202530	CDR PFF 75 A 40
		60	SBHR 20–75	8,000 – 10,000	10	47202531	CDR PFF 75 A 60
		80	SBHR 20–75	8,000 – 10,000	10	47202091	CDR PFF 75 A 80
		120	SBHR 20–75	8,000 – 10,000	10	47202532	CDR PFF 75 A 120

COMBIDISC
Mini-POLIFAN CD, CDR

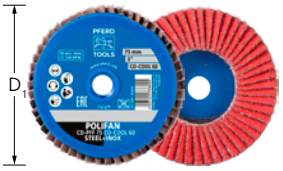
CD CDR

Zirconia alumina Z version

For coarse grinding work with a high stock removal rate and a long tool life.

Special features:
- Very comfortable due to ease of use and low-vibration working.
- No disruptions in use due to adhesion, slipping or coming loose.
- High economic efficiency as tool can be changed quickly thanks to innovative COMBIDISC clamping system. Please order abrasive disc holder separately.

D_1 [mm]	Abrasive	Grit size	Suitable arbors	Opt. RPM		Item no.	Designation
CD system							
50	Z	40	SBH 20–50, BO PFF 50	12,000 – 14,000	10	42719504	CD PFF 50 Z 40
		60	SBH 20–50, BO PFF 50	12,000 – 14,000	10	42719506	CD PFF 50 Z 60
		80	SBH 20–50, BO PFF 50	12,000 – 14,000	10	42719508	CD PFF 50 Z 80
		120	SBH 20–50, BO PFF 50	12,000 – 14,000	10	42719512	CD PFF 50 Z 120
75	Z	40	SBH 75, BO PFF 75	8,000 – 10,000	10	42719704	CD PFF 75 Z 40
		60	SBH 75, BO PFF 75	8,000 – 10,000	10	42719706	CD PFF 75 Z 60
		80	SBH 75, BO PFF 75	8,000 – 10,000	10	42719708	CD PFF 75 Z 80
		120	SBH 75, BO PFF 75	8,000 – 10,000	10	42719712	CD PFF 75 Z 120
CDR system							
50	Z	40	SBHR 20–75	12,000 – 14,000	10	47202125	CDR PFF 50 Z 40
		60	SBHR 20–75	12,000 – 14,000	10	47202126	CDR PFF 50 Z 60
		80	SBHR 20–75	12,000 – 14,000	10	47202533	CDR PFF 50 Z 80
		120	SBHR 20–75	12,000 – 14,000	10	47202534	CDR PFF 50 Z 120
75	Z	40	SBHR 20–75	8,000 – 10,000	10	47202101	CDR PFF 75 Z 40
		60	SBHR 20–75	8,000 – 10,000	10	47202535	CDR PFF 75 Z 60
		80	SBHR 20–75	8,000 – 10,000	10	47202536	CDR PFF 75 Z 80
		120	SBHR 20–75	8,000 – 10,000	10	47202092	CDR PFF 75 Z 120



CD

CO-COOL version

For aggressive grinding with maximum stock removal rate on hard materials which do not conduct heat well. Consistently high performance due to self-sharpening ceramic oxide grain. Active grinding additives in the coating substantially improve the stock removal rate, prevent clogging and result in cooler grinding.

Special features:
- Very comfortable due to ease of use and low-vibration working.
- No disruptions in use due to adhesion, slipping or coming loose.
- High economic efficiency as tool can be changed quickly. Please order necessary abrasive disc holder separately.

D_1 [mm]	Abrasive	Grit size	Opt. RPM		Item no.	Designation
CD system						
50	CO-COOL	40	12,000 – 14,000	10	42719100	CD-PFF 50 CO-COOL 40
		60	12,000 – 14,000	10	42719101	CD-PFF 50 CO-COOL 60
		80	12,000 – 14,000	10	42719102	CD-PFF 50 CO-COOL 80
		120	12,000 – 14,000	10	42719103	CD-PFF 50 CO-COOL 120
75	CO-COOL	120	8,000 – 10,000	10	42719110	CD-PFF 75 CO-COOL 120
		40	8,000 – 10,000	10	42719105	CD-PFF 75 CO-COOL 40
		60	8,000 – 10,000	10	42719107	CD-PFF 75 CO-COOL 60

Continued on next page

New item

D_1 [mm]	Abrasive	Grit size	Opt. RPM		Item no.	Designation
75	CO-COOL	80	8,000 – 10,000	10	42719109	CD-PFF 75 CO-COOL 80
CDR system						
50	CO-COOL	120	12,000 – 14,000	10	42719115	CDR-PFF 50 CO-COOL 120
		40	12,000 – 14,000	10	42719111	CDR-PFF 50 CO-COOL 40
		60	12,000 – 14,000	10	42719113	CDR-PFF 50 CO-COOL 60
		80	12,000 – 14,000	10	42719114	CDR-PFF 50 CO-COOL 80
75	CO-COOL	120	8,000 – 10,000	10	42719119	CDR-PFF 75 CO-COOL 120
		400	8,000 – 10,000	10	42719116	CDR-PFF 75 CO-COOL 40
		60	8,000 – 10,000	10	42719117	CDR-PFF 75 CO-COOL 60
		80	8,000 – 10,000	10	42719118	CDR-PFF 75 CO-COOL 80

Mini-POLIFAN FLEX CD, CDR

CD

Aluminium oxide A version

For general coarse grinding work with high stock removal rates. Ideal for dressing weld seams in hard-to-reach places. Longer tool life and higher stock removal rate when compared to abrasive discs.

Special features:
- Ideally suited to grinding smaller fillet weld geometries.
- Particularly suitable for contour grinding due to the flexible arrangement of the flaps.
- High economic efficiency as tool can be changed quickly. Please order necessary abrasive disc holder separately.

D_1 [mm]	Abrasive	Grit size	Opt. RPM		Item no.	Designation
CD system						
50	A	40	12,000 – 14,000	10	42719800	CD-FLEX 50 A 40
		60	12,000 – 14,000	10	42719801	CD-FLEX 50 A 60
		80	12,000 – 14,000	10	42719802	CD-FLEX 50 A 80
		120	12,000 – 14,000	10	42719803	CD-FLEX 50 A 120
75	A	40	8,000 – 10,000	10	42719804	CD-FLEX 75 A 40
		60	8,000 – 10,000	10	42719805	CD-FLEX 75 A 60
		80	8,000 – 10,000	10	42719806	CD-FLEX 75 A 80
		120	8,000 – 10,000	10	42719807	CD-FLEX 75 A 120
CDR system						
50	A	40	12,000 – 14,000	10	42719808	CDR-FLEX 50 A 40
		60	12,000 – 14,000	10	42719809	CDR-FLEX 50 A 60
		80	12,000 – 14,000	10	42719810	CDR-FLEX 50 A 80
		120	12,000 – 14,000	10	42719811	CDR-FLEX 50 A 120
75	A	40	8,000 – 10,000	10	42719812	CDR-FLEX 75 A 40
		60	8,000 – 10,000	10	42719813	CDR-FLEX 75 A 60
		80	8,000 – 10,000	10	42719814	CDR-FLEX 75 A 80
		120	8,000 – 10,000	10	42719815	CDR-FLEX 75 A 120

New item

COMBIDISC
Mini-POLIFAN FLEX CD, CDR

CD

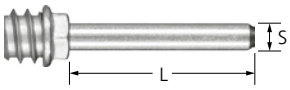
Ceramic oxide grain CO-COOL version

For aggressive grinding with maximum stock removal rate on hard materials which do not conduct heat well. Ideal for dressing weld seams in hard-to-reach places.

Special features:
- Ideally suited to grinding smaller fillet weld geometries.
- Particularly suitable for contour grinding due to the flexible arrangement of the flaps.
- High economic efficiency as tool can be changed quickly. Please order necessary abrasive disc holder separately.

D_1 [mm]	Abrasive	Grit size	Opt. RPM		Item no.	Designation
CD system						
50	CO-COOL	120	12,000 – 14,000	10	42719819	CD-FLEX 50 CO-COOL 120
		40	12,000 – 14,000	10	42719816	CD-FLEX 50 CO-COOL 40
		60	12,000 – 14,000	10	42719817	CD-FLEX 50 CO-COOL 60
		80	12,000 – 14,000	10	42719818	CD-FLEX 50 CO-COOL 80
75	CO-COOL	80	8,000 – 10,000	10	42719822	CD-FLEX 75 CO-COOL 80
		120	8,000 – 10,000	10	42719823	CD-FLEX 75 CO-COOL 120
		40	8,000 – 10,000	10	42719820	CD-FLEX 75 CO-COOL 40
		60	8,000 – 10,000	10	42719821	CD-FLEX 75 CO-COOL 60
CDR system						
50	CO-COOL	120	12,000 – 14,000	10	42719827	CDR-FLEX 50 CO-COOL 120
		40	12,000 – 14,000	10	42719824	CDR-FLEX 50 CO-COOL 40
		60	12,000 – 14,000	10	42719825	CDR-FLEX 50 CO-COOL 60
		80	12,000 – 14,000	10	42719826	CDR-FLEX 50 CO-COOL 80
75	CO-COOL	120	8,000 – 10,000	10	42719831	CDR-FLEX 75 CO-COOL 120
		40	8,000 – 10,000	10	42719828	CDR-FLEX 75 CO-COOL 40
		60	8,000 – 10,000	10	42719829	CDR-FLEX 75 CO-COOL 60
		80	8,000 – 10,000	10	42719830	CDR-FLEX 75 CO-COOL 80

Mini-POLIFAN arbor



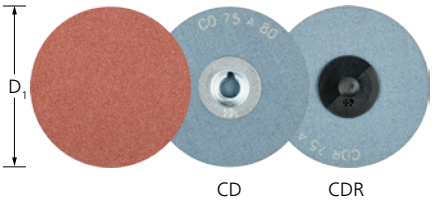
BO PFF

Matching arbors for COMBIDISC Mini-POLIFAN.

S [mm]	L [mm]	Matching tool		Item no.	Designation
6	40	CD PFF 50	1	42700050	BO PFF 50
		CD PFF 75	1	42700075	BO PFF 75

New item

COMBIDISC
Abrasive discs CD, CDR



Aluminium oxide A version

For general coarse to fine grinding applications in industry and professional trades.

Special features:
- Very comfortable due to ease of use and low-vibration working.
- No disruptions in use due to adhesion, slipping or coming loose.
- High economic efficiency as tool can be changed quickly thanks to innovative COMBIDISC clamping system. Please order abrasive disc holder separately.

D_1 [mm]	Abrasive	Grit size	Opt. RPM		Item no.	Designation
CD system						
20	A	60	20,000 – 35,000	100	42750206	CD 20 A 60
		80	20,000 – 35,000	100	42750208	CD 20 A 80
		120	20,000 – 35,000	100	42750212	CD 20 A 120
		180	20,000 – 35,000	100	42750218	CD 20 A 180
		320	20,000 – 35,000	100	42750232	CD 20 A 320
25	A	60	15,000 – 26,000	100	42750306	CD 25 A 60
		80	15,000 – 26,000	100	42750308	CD 25 A 80
		120	15,000 – 26,000	100	42750312	CD 25 A 120
		180	15,000 – 26,000	100	42750318	CD 25 A 180
		320	15,000 – 26,000	100	42750332	CD 25 A 320
38	A	36	10,000 – 16,000	100	42750403	CD 38 A 36
		60	10,000 – 16,000	100	42750406	CD 38 A 60
		80	10,000 – 16,000	100	42750408	CD 38 A 80
		120	10,000 – 16,000	100	42750412	CD 38 A 120
		180	10,000 – 16,000	100	42750418	CD 38 A 180
		320	10,000 – 16,000	100	42750432	CD 38 A 320
50	A	36	8,000 – 13,000	100	42750503	CD 50 A 36
		60	8,000 – 13,000	100	42750506	CD 50 A 60
		80	8,000 – 13,000	100	42750508	CD 50 A 80
		120	8,000 – 13,000	100	42750512	CD 50 A 120
		180	8,000 – 13,000	100	42750518	CD 50 A 180
		320	8,000 – 13,000	100	42750532	CD 50 A 320
75	A	36	5,000 – 9,000	50	42750703	CD 75 A 36
		60	5,000 – 9,000	50	42750706	CD 75 A 60
		80	5,000 – 9,000	50	42750708	CD 75 A 80
		120	5,000 – 9,000	50	42750712	CD 75 A 120
		180	5,000 – 9,000	50	42750718	CD 75 A 180
		320	5,000 – 9,000	50	42750732	CD 75 A 320
CDR system						
20	A	60	20,000 – 35,000	100	42770206	CDR 20 A 60
		80	20,000 – 35,000	100	42770208	CDR 20 A 80
		120	20,000 – 35,000	100	42770212	CDR 20 A 120
25	A	60	15,000 – 26,000	100	42770306	CDR 25 A 60
		80	15,000 – 26,000	100	42770308	CDR 25 A 80
		120	15,000 – 26,000	100	42770312	CDR 25 A 120
		180	15,000 – 26,000	100	42770318	CDR 25 A 180
		320	15,000 – 26,000	100	42770332	CDR 25 A 320
38	A	36	10,000 – 16,000	100	42770403	CDR 38 A 36
		60	10,000 – 16,000	100	42770406	CDR 38 A 60

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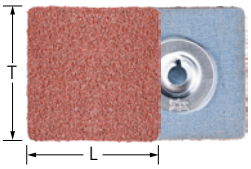
D_1 [mm]	Abrasive	Grit size	Opt. RPM		Item no.	Designation
38	A	80	10,000 – 16,000	100	42770408	CDR 38 A 80
		120	10,000 – 16,000	100	42770412	CDR 38 A 120
		180	10,000 – 16,000	100	42770418	CDR 38 A 180
		320	10,000 – 16,000	100	42770432	CDR 38 A 320
50	A	36	8,000 – 13,000	100	42770503	CDR 50 A 36
		60	8,000 – 13,000	100	42770506	CDR 50 A 60
		80	8,000 – 13,000	100	42770508	CDR 50 A 80
		120	8,000 – 13,000	100	42770512	CDR 50 A 120
		180	8,000 – 13,000	100	42770518	CDR 50 A 180
		320	8,000 – 13,000	100	42770532	CDR 50 A 320
75	A	36	5,000 – 9,000	50	42770703	CDR 75 A 36
		60	5,000 – 9,000	50	42770706	CDR 75 A 60
		80	5,000 – 9,000	50	42770708	CDR 75 A 80
		120	5,000 – 9,000	50	42770712	CDR 75 A 120
		180	5,000 – 9,000	50	42770718	CDR 75 A 180
		320	5,000 – 9,000	50	42770732	CDR 75 A 320

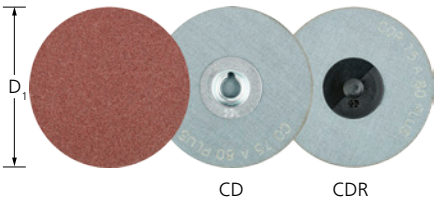


Aluminium oxide A for linear grinding version

For general coarse to fine grinding applications in industry and professional trades. Suitable for grinding corners and preparing linear surface finishes.

Special features:
- High economic efficiency as tool can be changed quickly. Please order necessary abrasive disc holder separately.
- Very comfortable due to smooth running and very precise working.
- No disruptions in use due to adhesion, slipping or coming loose.

L [mm]	T [mm]	Abrasive	Grit size		Item no.	Designation
CD system						
35	35	A	60	100	42799034	CD SQ 35x35 A 60
			120	100	42799035	CD SQ 35x35 A 120
			180	100	42799036	CD SQ 35x35 A 180



Aluminium oxide A-PLUS version

For general applications from coarse to fine grinding. Higher stock removal rate due to sturdy backing material. Particularly for use in edge grinding due to high tear strength.

Special features:
- Very comfortable due to ease of use and low-vibration working.
- No disruptions in use due to adhesion, slipping or coming loose.
- High economic efficiency as tool can be changed quickly thanks to innovative COMBIDISC clamping system. Please order abrasive disc holder separately.

D_1 [mm]	Abrasive	Grit size	Opt. RPM		Item no.	Designation
CD system						
50	A-PLUS	36	8,000 – 13,000	100	42755503	CD 50 A 36 PLUS
		60	8,000 – 13,000	100	42755506	CD 50 A 60 PLUS
		80	8,000 – 13,000	100	42755508	CD 50 A 80 PLUS
		120	8,000 – 13,000	100	42755512	CD 50 A 120 PLUS
75	A-PLUS	36	5,000 – 9,000	50	42755703	CD 75 A 36 PLUS
		60	5,000 – 9,000	50	42755706	CD 75 A 60 PLUS
		80	5,000 – 9,000	50	42755708	CD 75 A 80 PLUS
		120	5,000 – 9,000	50	42755712	CD 75 A 120 PLUS

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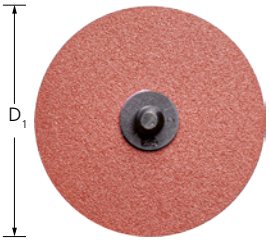
D_1 [mm]	Abrasive	Grit size	Opt. RPM		Item no.	Designation
CDR system						
50	A-PLUS	36	8,000 – 13,000	100	42775503	CDR 50 A 36 PLUS
		60	8,000 – 13,000	100	42775506	CDR 50 A 60 PLUS
		80	8,000 – 13,000	100	42775508	CDR 50 A 80 PLUS
		120	8,000 – 13,000	100	42775512	CDR 50 A 120 PLUS
75	A-PLUS	36	5,000 – 9,000	50	42775703	CDR 75 A 36 PLUS
		60	5,000 – 9,000	50	42775706	CDR 75 A 60 PLUS
		80	5,000 – 9,000	50	42775708	CDR 75 A 80 PLUS
		120	5,000 – 9,000	50	42775712	CDR 75 A 120 PLUS



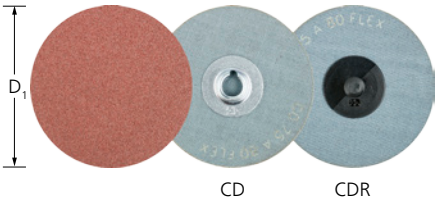
RS aluminium oxide A-PLUS version

Ideal for general applications from coarse to fine grinding on areas that are extremely difficult to access, with a high stock removal rate and long tool life.

Special features:
- Excellent for weld dressing of backwards repair welds, e.g. in cases, slots and grooves on engines.
- The abrasive coating is located on the underside of the tool. This enables convenient and safe backwards working in hard-to-reach areas.
- Ideal for work on welded-on combustor plates. Please order necessary backing pad separately.

D_1 [mm]	Abrasive	Grit size	Opt. RPM		Item no.	Designation
CDR system						
38	A-PLUS	60	10,000 – 16,000	100	*42799025*	CDR 38 A 60 PLUS RS
		80	10,000 – 16,000	100	*42799026*	CDR 38 A 80 PLUS RS
		120	10,000 – 16,000	100	*42799027*	CDR 38 A 120 PLUS RS
50	A-PLUS	60	8,000 – 13,000	100	*42799028*	CDR 50 A 60 PLUS RS
		80	8,000 – 13,000	100	*42799029*	CDR 50 A 80 PLUS RS
		120	8,000 – 13,000	100	*42799030*	CDR 50 A 120 PLUS RS
75	A-PLUS	60	5,000 – 9,000	50	*42799031*	CDR 75 A 60 PLUS RS
		80	5,000 – 9,000	50	*42799032*	CDR 75 A 80 PLUS RS
		120	5,000 – 9,000	50	*42799033*	CDR 75 A 120 PLUS RS

Discontinued product

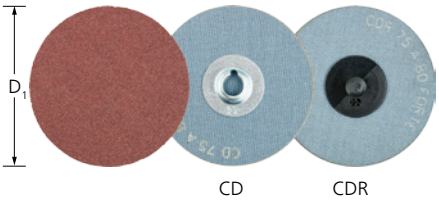


Aluminium oxide A-FLEX version

Particularly flexible abrasive discs, which are especially suitable for work on contours and concave surfaces, e.g. in tool and mould-making. For achieving seamless transitions in the surface finish.

Special features:
- Very comfortable due to ease of use and low-vibration working.
- No disruptions in use due to adhesion, slipping or coming loose.
- High economic efficiency as tool can be changed quickly thanks to innovative COMBIDISC clamping system. Please order abrasive disc holder separately.

D_1 [mm]	Abrasive	Grit size	Opt. RPM		Item no.	Designation
CD system						
38	A-FLEX	60 FLEX	10,000 – 16,000	100	42757406	CD 38 A 60 FLEX
		80 FLEX	10,000 – 16,000	100	42757408	CD 38 A 80 FLEX
		120 FLEX	10,000 – 16,000	100	42757412	CD 38 A 120 FLEX
50	A-FLEX	60 FLEX	8,000 – 13,000	100	42757506	CD 50 A 60 FLEX
		80 FLEX	8,000 – 13,000	100	42757508	CD 50 A 80 FLEX
		120 FLEX	8,000 – 13,000	100	42757512	CD 50 A 120 FLEX
75	A-FLEX	60 FLEX	5,000 – 9,000	50	42757706	CD 75 A 60 FLEX
		80 FLEX	5,000 – 9,000	50	42757708	CD 75 A 80 FLEX
		120 FLEX	5,000 – 9,000	50	42757712	CD 75 A 120 FLEX



Aluminium oxide A-FORTE version

For general applications from coarse to fine grinding, with a high stock removal rate and long tool life.

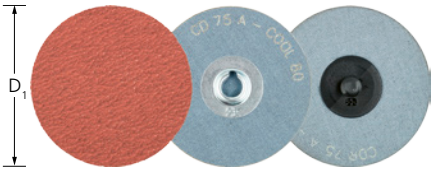
Special features:
- Very comfortable due to ease of use and low-vibration working.
- No disruptions in use due to adhesion, slipping or coming loose.
- High economic efficiency as tool can be changed quickly thanks to innovative COMBIDISC clamping system. Please order abrasive disc holder separately.

D_1 [mm]	Abrasive	Grit size	Opt. RPM		Item no.	Designation
CD system						
25	A-FORTE	60 FORTE	15,000 – 26,000	100	42751306	CD 25 A 60 FORTE
		80 FORTE	15,000 – 26,000	100	42751308	CD 25 A 80 FORTE
		120 FORTE	15,000 – 26,000	100	42751312	CD 25 A 120 FORTE
38	A-FORTE	36 FORTE	10,000 – 16,000	100	42751403	CD 38 A 36 FORTE
		60 FORTE	10,000 – 16,000	100	42751406	CD 38 A 60 FORTE
		80 FORTE	10,000 – 16,000	100	42751408	CD 38 A 80 FORTE
		120 FORTE	10,000 – 16,000	100	42751412	CD 38 A 120 FORTE
50	A-FORTE	36 FORTE	8,000 – 13,000	100	42751503	CD 50 A 36 FORTE
		60 FORTE	8,000 – 13,000	100	42751506	CD 50 A 60 FORTE
		80 FORTE	8,000 – 13,000	100	42751508	CD 50 A 80 FORTE
		120 FORTE	8,000 – 13,000	100	42751512	CD 50 A 120 FORTE
75	A-FORTE	36 FORTE	5,000 – 9,000	50	42751703	CD 75 A 36 FORTE
		60 FORTE	5,000 – 9,000	50	42751706	CD 75 A 60 FORTE
		80 FORTE	5,000 – 9,000	50	42751708	CD 75 A 80 FORTE
		120 FORTE	5,000 – 9,000	50	42751712	CD 75 A 120 FORTE

Continued on next page

COMBIDISC
Abrasive discs CD, CDR

D_1 [mm]	Abrasive	Grit size	Opt. RPM		Item no.	Designation
CDR system						
25	A-FORTE	60 FORTE	15,000 – 26,000	100	42771306	CDR 25 A 60 FORTE
		80 FORTE	15,000 – 26,000	100	42771308	CDR 25 A 80 FORTE
		120 FORTE	15,000 – 26,000	100	42771312	CDR 25 A 120 FORTE
38	A-FORTE	36 FORTE	10,000 – 16,000	100	42771403	CDR 38 A 36 FORTE
		60 FORTE	10,000 – 16,000	100	42771406	CDR 38 A 60 FORTE
		80 FORTE	10,000 – 16,000	100	42771408	CDR 38 A 80 FORTE
		120 FORTE	10,000 – 16,000	100	42771412	CDR 38 A 120 FORTE
50	A-FORTE	36 FORTE	8,000 – 13,000	100	42771503	CDR 50 A 36 FORTE
		60 FORTE	8,000 – 13,000	100	42771506	CDR 50 A 60 FORTE
		80 FORTE	8,000 – 13,000	100	42771508	CDR 50 A 80 FORTE
		120 FORTE	8,000 – 13,000	100	42771512	CDR 50 A 120 FORTE
75	A-FORTE	36 FORTE	5,000 – 9,000	50	42771703	CDR 75 A 36 FORTE
		60 FORTE	5,000 – 9,000	50	42771706	CDR 75 A 60 FORTE
		80 FORTE	5,000 – 9,000	50	42771708	CDR 75 A 80 FORTE
		120 FORTE	5,000 – 9,000	50	42771712	CDR 75 A 120 FORTE

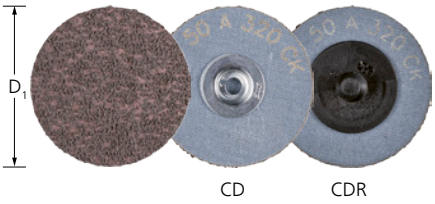


Aluminium oxide A-COOL version

For general applications from coarse to fine grinding on materials with challenging stock removal properties, e.g. stainless steel (INOX). Active grinding additives substantially improve the stock removal rate, prevent clogging and result in cooler grinding.

Special features:
- Very comfortable due to ease of use and low-vibration working.
- No disruptions in use due to adhesion, slipping or coming loose.
- High economic efficiency as tool can be changed quickly thanks to innovative COMBIDISC clamping system. Please order abrasive disc holder separately.

D_1 [mm]	Abrasive	Grit size	Opt. RPM		Item no.	Designation
CD system						
50	A-COOL	36	8,000 – 13,000	100	42752503	CD 50 A-COOL 36
		60	8,000 – 13,000	100	42752506	CD 50 A-COOL 60
		80	8,000 – 13,000	100	42752508	CD 50 A-COOL 80
75	A-COOL	36	5,000 – 9,000	50	42752703	CD 75 A-COOL 36
		60	5,000 – 9,000	50	42752706	CD 75 A-COOL 60
		80	5,000 – 9,000	50	42752708	CD 75 A-COOL 80
CDR system						
50	A-COOL	36	8,000 – 13,000	100	42772503	CDR 50 A-COOL 36
		60	8,000 – 13,000	100	42772506	CDR 50 A-COOL 60
		80	8,000 – 13,000	100	42772508	CDR 50 A-COOL 80

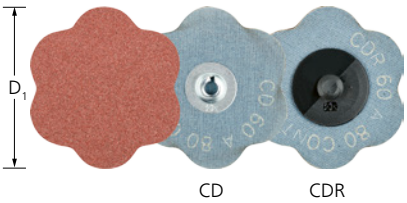


Aluminium oxide A compact grain version

Outstandingly suited to fine and very fine grinding, and for step-by-step preparations for polishing. The self-sharpening compact grain facilitates a very long tool life and achieves consistent surface quality levels throughout the entire tool life.

Special features:
- Very comfortable due to ease of use and low-vibration working.
- No disruptions in use due to adhesion, slipping or coming loose.
- Please order necessary backing pad separately. Only use backing pad with dia. 20–50 mm.

D_1 [mm]	Abrasive	Grit size	Opt. RPM		Item no.	Designation
CD system						
50	A-CK	120	3,800 – 13,000	100	42755012	CD 50 A 120 CK
		180	3,800 – 13,000	100	42755018	CD 50 A 180 CK
		240	3,800 – 13,000	100	42755024	CD 50 A 240 CK
		320	3,800 – 13,000	100	42755032	CD 50 A 320 CK
		400	3,800 – 13,000	100	42755040	CD 50 A 400 CK
		600	3,800 – 13,000	100	42755060	CD 50 A 600 CK
		800	3,800 – 13,000	100	42755080	CD 50 A 800 CK
		1000	3,800 – 13,000	100	42755100	CD 50 A 1000 CK
		1200	3,800 – 13,000	100	42755120	CD 50 A 1200 CK
CDR system						
50	A-CK	120	3,800 – 13,000	100	42795012	CDR 50 A 120 CK
		180	3,800 – 13,000	100	42795018	CDR 50 A 180 CK
		240	3,800 – 13,000	100	42795024	CDR 50 A 240 CK
		320	3,800 – 13,000	100	42795032	CDR 50 A 320 CK
		400	3,800 – 13,000	100	42795040	CDR 50 A 400 CK
		600	3,800 – 13,000	100	42795060	CDR 50 A 600 CK
		800	3,800 – 13,000	100	42795080	CDR 50 A 800 CK
		1000	3,800 – 13,000	100	42795100	CDR 50 A 1000 CK
		1200	3,800 – 13,000	100	42795120	CDR 50 A 1200 CK



Aluminium oxide A-CONTOUR version

Very flexible and adaptable on account of the outer contour. Cutting into the workpiece is avoided.

Special features:
- Very comfortable due to ease of use and low-vibration working.
- No disruptions in use due to adhesion, slipping or coming loose.
- High economic efficiency as tool can be changed quickly thanks to innovative COMBIDISC clamping system. Please order abrasive disc holder separately.

D_1 [mm]	Abrasive	Grit size	Opt. RPM		Item no.	Designation
CD system						
60	A	60 CONTOUR	7,500 – 11,000	50	42759001	CD 60 A 60 CONTOUR
		80 CONTOUR	7,500 – 11,000	50	42759002	CD 60 A 80 CONTOUR
		120 CONTOUR	7,500 – 11,000	50	42759003	CD 60 A 120 CONTOUR
		180 CONTOUR	7,500 – 11,000	50	42759004	CD 60 A 180 CONTOUR

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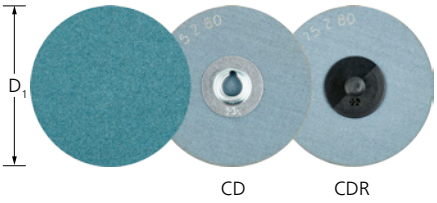
COMBIDISC
Abrasive discs CD, CDR

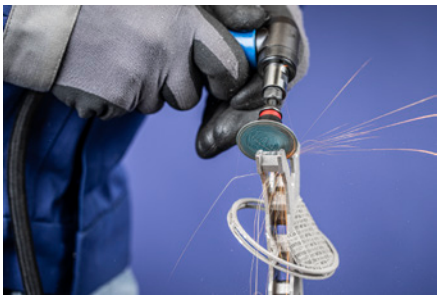
PFERD TOOLS

D_1 [mm]	Abrasive	Grit size	Opt. RPM		Item no.	Designation
CDR system						
60	A	60 CONTOUR	7,500 – 11,000	50	42759005	CDR 60 A 60 CONTOUR
		80 CONTOUR	7,500 – 11,000	50	42759006	CDR 60 A 80 CONTOUR
		120 CONTOUR	7,500 – 11,000	50	42759007	CDR 60 A 120 CONTOUR
		180 CONTOUR	7,500 – 11,000	50	42759008	CDR 60 A 180 CONTOUR



Zirconia alumina Z version

For coarse grinding work with a high stock removal rate and a long tool life. Particularly high stock removal rate in coarse grinding applications using grit sizes 36 and 60.

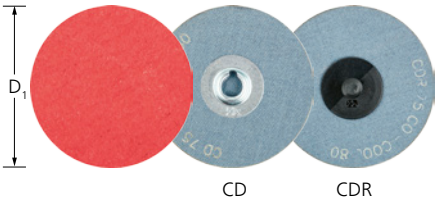


Special features:
- Very comfortable due to ease of use and low-vibration working.
- No disruptions in use due to adhesion, slipping or coming loose.
- High economic efficiency as tool can be changed quickly thanks to innovative COMBIDISC clamping system. Please order abrasive disc holder separately.

D_1 [mm]	Abrasive	Grit size	Opt. RPM		Item no.	Designation
CD system						
38	Z	36	5,000 – 16,000	100	42753403	CD 38 Z 36
		60	5,000 – 16,000	100	42753406	CD 38 Z 60
		80	5,000 – 16,000	100	42753408	CD 38 Z 80
50	Z	36	3,800 – 13,000	100	42753503	CD 50 Z 36
		60	3,800 – 13,000	100	42753506	CD 50 Z 60
		80	3,800 – 13,000	100	42753508	CD 50 Z 80
75	Z	36	2,500 – 9,000	50	42753703	CD 75 Z 36
		60	2,500 – 9,000	50	42753706	CD 75 Z 60
		80	2,500 – 9,000	50	42753708	CD 75 Z 80
CDR system						
38	Z	36	5,000 – 16,000	100	42773403	CDR 38 Z 36
		60	5,000 – 16,000	100	42773406	CDR 38 Z 60
		80	5,000 – 16,000	100	42773408	CDR 38 Z 80
50	Z	36	3,800 – 13,000	100	42773503	CDR 50 Z 36
		60	3,800 – 13,000	100	42773506	CDR 50 Z 60
		80	3,800 – 13,000	100	42773508	CDR 50 Z 80
75	Z	36	2,500 – 9,000	50	42773703	CDR 75 Z 36
		60	2,500 – 9,000	50	42773706	CDR 75 Z 60
		80	2,500 – 9,000	50	42773708	CDR 75 Z 80

COMBIDISC
Abrasive discs CD, CDR

PFERD TOOLS



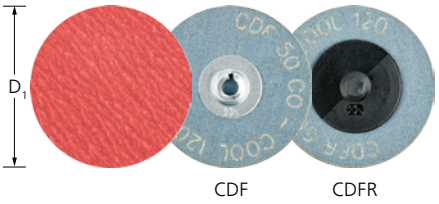
Ceramic oxide grain CO-COOL version

Consistently high performance and aggressive grinding due to self-sharpening ceramic oxide grain. Active grinding additives improve the stock removal rate, prevent clogging and result in cooler grinding on hard materials which do not conduct heat well.

Special features:

- Very comfortable due to ease of use and low-vibration working.
- No disruptions in use due to adhesion, slipping or coming loose.
- High economic efficiency as tool can be changed quickly thanks to innovative COMBIDISC clamping system. Please order abrasive disc holder separately.

D_1 [mm]	Abrasive	Grit size	Opt. RPM		Item no.	Designation
CD system						
38	CO-COOL	24	5,000 – 16,000	100	42756402	CD 38 CO-COOL 24
		36	5,000 – 16,000	100	42756403	CD 38 CO-COOL 36
		60	5,000 – 16,000	100	42756406	CD 38 CO-COOL 60
		80	5,000 – 16,000	100	42756408	CD 38 CO-COOL 80
		120	5,000 – 16,000	100	42756412	CD 38 CO-COOL 120
50	CO-COOL	24	3,800 – 13,000	100	42756502	CD 50 CO-COOL 24
		36	3,800 – 13,000	100	42756503	CD 50 CO-COOL 36
		60	3,800 – 13,000	100	42756506	CD 50 CO-COOL 60
		80	3,800 – 13,000	100	42756508	CD 50 CO-COOL 80
		120	3,800 – 13,000	100	42756512	CD 50 CO-COOL 120
75	CO-COOL	24	2,500 – 9,000	50	42756702	CD 75 CO-COOL 24
		36	2,500 – 9,000	50	42756703	CD 75 CO-COOL 36
		60	2,500 – 9,000	50	42756706	CD 75 CO-COOL 60
		80	2,500 – 9,000	50	42756708	CD 75 CO-COOL 80
		120	2,500 – 9,000	50	42756712	CD 75 CO-COOL 120
CDR system						
38	CO-COOL	36	5,000 – 16,000	100	42776403	CDR 38 CO-COOL 36
		60	5,000 – 16,000	100	42776406	CDR 38 CO-COOL 60
		80	5,000 – 16,000	100	42776408	CDR 38 CO-COOL 80
		120	5,000 – 16,000	100	42776412	CDR 38 CO-COOL 120
50	CO-COOL	24	3,800 – 13,000	100	42776502	CDR 50 CO-COOL 24
		36	3,800 – 13,000	100	42776503	CDR 50 CO-COOL 36
		60	3,800 – 13,000	100	42776506	CDR 50 CO-COOL 60
		80	3,800 – 13,000	100	42776508	CDR 50 CO-COOL 80
		120	3,800 – 13,000	100	42776512	CDR 50 CO-COOL 120
75	CO-COOL	24	2,500 – 9,000	50	42776702	CDR 75 CO-COOL 24
		36	2,500 – 9,000	50	42776703	CDR 75 CO-COOL 36
		60	2,500 – 9,000	50	42776706	CDR 75 CO-COOL 60
		80	2,500 – 9,000	50	42776708	CDR 75 CO-COOL 80
		120	2,500 – 9,000	50	42776712	CDR 75 CO-COOL 120

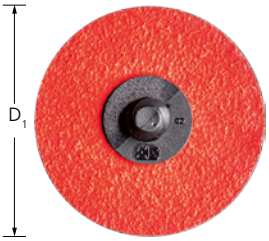


Ceramic oxide grain CO-COOL mini fibre discs type

Consistently high performance and aggressive grinding due to self-sharpening ceramic oxide grain. Active grinding additives improve the stock removal rate, prevent clogging and result in cooler grinding on hard materials which do not conduct heat well.

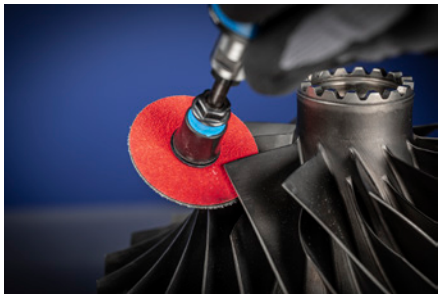
Special features:
- Excellent for surface and edge grinding. The fibre backing strengthens the abrasive disc and improves stock removal.
- High economic efficiency as tool can be changed quickly. Very comfortable due to ease of use and low-vibration working.
- Please order necessary backing pad separately. No disruptions in use due to adhesion, slipping or coming loose.

D_1 [mm]	Abrasive	Grit size	Opt. RPM		Item no.	Designation
CD system						
50	CO-COOL	36	3,800 – 13,000	100	42749503	CDF 50 CO-COOL 36
		50	3,800 – 13,000	100	42749505	CDF 50 CO-COOL 50
		80	3,800 – 13,000	100	42749508	CDF 50 CO-COOL 80
		120	3,800 – 13,000	100	42749512	CDF 50 CO-COOL 120
75	CO-COOL	36	2,500 – 9,000	50	42749703	CDF 75 CO-COOL 36
		50	2,500 – 9,000	50	42749705	CDF 75 CO-COOL 50
		80	2,500 – 9,000	50	42749708	CDF 75 CO-COOL 80
		120	2,500 – 9,000	50	42749712	CDF 75 CO-COOL 120
CDR system						
50	CO-COOL	36	3,800 – 13,000	100	42778503	CDFR 50 CO-COOL 36
		50	3,800 – 13,000	100	42778505	CDFR 50 CO-COOL 50
		80	3,800 – 13,000	100	42778508	CDFR 50 CO-COOL 80
		120	3,800 – 13,000	100	42778512	CDFR 50 CO-COOL 120
75	CO-COOL	36	2,500 – 9,000	50	42778703	CDFR 75 CO-COOL 36
		50	2,500 – 9,000	50	42778705	CDFR 75 CO-COOL 50
		80	2,500 – 9,000	50	42778708	CDFR 75 CO-COOL 80
		120	2,500 – 9,000	50	42778712	CDFR 75 CO-COOL 120



RS ceramic oxide grain CO-COOL mini fibre disc version

Consistently high performance and aggressive grinding due to self-sharpening ceramic oxide grain. Active grinding additives improve the stock removal rate, prevent clogging and result in cooler grinding on hard materials which do not conduct heat well.



Special features:
- Excellent for weld dressing of backwards repair welds, e.g. in cases, slots and grooves on engines.
- The abrasive coating is located on the underside of the tool. This enables convenient and safe backwards working in hard-to-reach areas.
- Ideal for work on welded-on combustor plates. Order necessary backing pad separately.

D_1 [mm]	Abrasive	Grit size	Opt. RPM		Item no.	Designation
CDR system						
38	CO-COOL	50	10,000 – 16,000	100	42799010	CDFR 38 CO-COOL 50 RS
		80	10,000 – 16,000	100	47201013	CDFR 38 CO-COOL 80 RS
		120	10,000 – 16,000	100	42799011	CDFR 38 CO-COOL 120 RS
50	CO-COOL	50	3,800 – 13,000	100	42799012	CDFR 50 CO-COOL 50 RS
		80	3,800 – 13,000	100	47201007	CDFR 50 CO-COOL 80 RS

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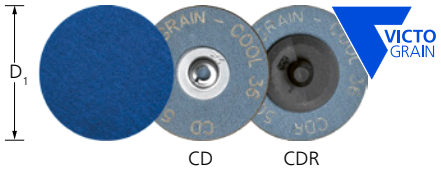
D_1 [mm]	Abrasive	Grit size	Opt. RPM		Item no.	Designation
50	CO-COOL	120	3,800 – 13,000	100	42799013	CDFR 50 CO-COOL 120 RS
75	CO-COOL	50	2,500 – 9,000	50	42799014	CDFR 75 CO-COOL 50 RS
		80	2,500 – 9,000	50	47201014	CDFR 75 CO-COOL 80 RS
		120	2,500 – 9,000	50	42799015	CDFR 75 CO-COOL 120 RS

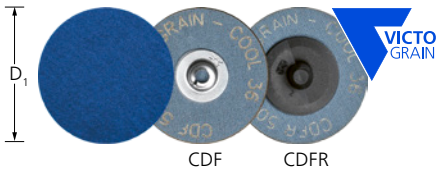


VICTOGRAIN-COOL version

For maximum aggressive grinding with an extremely long tool life, the ultimate stock removal rate and consistently high performance on steel and hard materials which do not conduct heat well. Active grinding additives in the coating prevent clogging and result in cooler grinding.

Special features:
- Very comfortable due to ease of use and low-vibration working.
- No disruptions in use due to adhesion, slipping or coming loose.
- High economic efficiency as tool can be changed quickly thanks to innovative COMBIDISC clamping system. Please order abrasive disc holder separately.

D_1 [mm]	Abrasive	Grit size	Opt. RPM		Item no.	Designation
CD system						
38	VICTOGRAIN-COOL	36	5,000 – 16,000	100	42798001	CD 38 VICTOGRAIN-COOL 36
50	VICTOGRAIN-COOL	36	3,800 – 13,000	100	42798002	CD 50 VICTOGRAIN-COOL 36
75	VICTOGRAIN-COOL	36	2,500 – 9,000	50	42798003	CD 75 VICTOGRAIN-COOL 36
CDR system						
38	VICTOGRAIN-COOL	36	5,000 – 16,000	100	42799001	CDR 38 VICTOGRAIN-COOL 36
50	VICTOGRAIN-COOL	36	3,800 – 13,000	100	42799002	CDR 50 VICTOGRAIN-COOL 36
75	VICTOGRAIN-COOL	36	2,500 – 9,000	50	42799003	CDR 75 VICTOGRAIN-COOL 36



VICTOGRAIN-COOL mini fibre discs type

For maximum aggressive grinding with an extremely long tool life, the ultimate stock removal rate and consistently high performance on steel and hard materials which do not conduct heat well. Active grinding additives in the coating prevent clogging and result in cooler grinding.

Special features:
- Excellent for surface and edge grinding. The fibre backing strengthens the abrasive disc and improves stock removal.
- High economic efficiency as tool can be changed quickly. Very comfortable due to ease of use and low-vibration working.
- Please order necessary backing pad separately. No disruptions in use due to adhesion, slipping or coming loose.

D_1 [mm]	Abrasive	Grit size	Opt. RPM		Item no.	Designation
CD system						
38	VICTOGRAIN-COOL	36	5,000 – 16,000	100	42703836	CDF 38 VICTOGRAIN-COOL 36
		60	5,000 – 16,000	100	42703860	CD 38 VICTOGRAIN-COOL 60
		80	5,000 – 16,000	100	42703880	CD 38 VICTOGRAIN-COOL 80
50	VICTOGRAIN-COOL	36	3,800 – 13,000	100	42705036	CDF 50 VICTOGRAIN-COOL 36
		60	3,800 – 13,000	100	42705060	CD 50 VICTOGRAIN-COOL 60
		80	3,800 – 13,000	100	42705080	CD 50 VICTOGRAIN-COOL 80
75	VICTOGRAIN-COOL	36	2,500 – 9,000	50	42707536	CDF 75 VICTOGRAIN-COOL 36
		60	2,500 – 9,000	50	42707560	CD 75 VICTOGRAIN-COOL 60
		80	2,500 – 9,000	50	42707580	CD 75 VICTOGRAIN-COOL 80
CDR system						
38	VICTOGRAIN-COOL	36	5,000 – 16,000	100	42713836	CDFR 38 VICTOGRAIN-COOL 36
		60	5,000 – 16,000	100	42713860	CDR 38 VICTOGRAIN-COOL 60

Continued on next page

COMBIDISC
Abrasive discs CD, CDR

PFERD TOOLS

D_1 [mm]	Abrasive	Grit size	Opt. RPM		Item no.	Designation
38	VICTOGRAIN-COOL	80	5,000 – 16,000	100	42713880	CDR 38 VICTOGRAIN-COOL 80
50	VICTOGRAIN-COOL	36	3,800 – 13,000	100	42715036	CDFR 50 VICTOGRAIN-COOL 36
		60	3,800 – 13,000	100	42715060	CDR 50 VICTOGRAIN-COOL 60
		80	3,800 – 13,000	100	42715080	CDR 50 VICTOGRAIN-COOL 80
75	VICTOGRAIN-COOL	36	2,500 – 9,000	50	42717536	CDFR 75 VICTOGRAIN-COOL 36
		60	2,500 – 9,000	50	42717560	CDR 75 VICTOGRAIN-COOL 60
		80	2,500 – 9,000	50	42717580	CDR 75 VICTOGRAIN-COOL 80

Diamond version

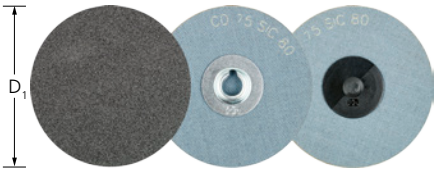
Excellent for work on extremely hard materials, wear-resistant coatings and for hard facings. Particularly recommended for work on materials used for aircraft engine construction.

Special features:

- High economic efficiency as tool can be changed quickly. Very comfortable due to ease of use and low-vibration working.
- Please order necessary backing pad separately. No disruptions in use due to adhesion, slipping or coming loose.
- The diamond grit sizes correspond to the following grit sizes according to ISO 6344: D 251 = P 60; D 126 = P 120; D 76 = P 220.

D_1 [mm]	Abrasive	Grit size [µm]	Opt. RPM		Item no.	Designation
CD system						
25	DIA	251	7,500 – 15,000	10	42740001	CD DIA 25 D 251 - P 60
		126	7,500 – 15,000	10	42740002	CD DIA 25 D 126 - P 120
		76	7,500 – 15,000	10	42740003	CD DIA 25 D 76 - P 220
38	DIA	251	5,000 – 10,000	10	42740004	CD DIA 38 D 251 - P 60
		126	5,000 – 10,000	10	42740005	CD DIA 38 D 126 - P 120
		76	5,000 – 10,000	10	42740006	CD DIA 38 D 76 - P 220
50	DIA	251	3,800 – 7,500	10	42740007	CD DIA 50 D 251 - P 60
		126	3,800 – 7,500	10	42740008	CD DIA 50 D 126 - P 120
		76	3,800 – 7,500	10	42740009	CD DIA 50 D 76 - P 220
75	DIA	251	2,500 – 5,000	10	42740010	CD DIA 75 D 251 - P 60
		126	2,500 – 5,000	10	42740011	CD DIA 75 D 126 - P 120
		76	2,500 – 5,000	10	42740012	CD DIA 75 D 76 - P 220
CDR system						
50	DIA	251	3,800 – 7,500	10	42758007	CDR DIA 50 D 251 - P 60
		126	3,800 – 7,500	10	42758008	CDR DIA 50 D 126 - P 120
		76	3,800 – 7,500	10	42758009	CDR DIA 50 D 76 - P 220

COMBIDISC
Abrasive discs CD, CDR



Silicon carbide SiC version

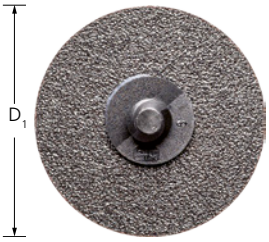
For general grinding work on components made of aluminium, copper, bronze, titanium and fibre-reinforced plastics. Particularly recommended for use on titanium alloys. Ideally suited for use in the aircraft industry, particularly when SiC is the only abrasive approved for use.

Special features:

- Very comfortable due to ease of use and low-vibration working.
- No disruptions in use due to adhesion, slipping or coming loose.
- High economic efficiency as tool can be changed quickly thanks to innovative COMBIDISC clamping system. Please order abrasive disc holder separately.

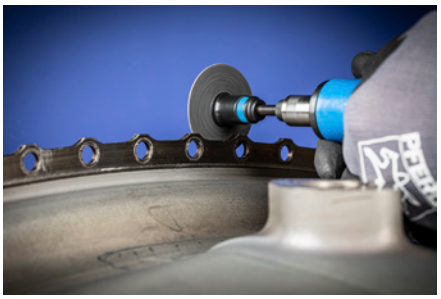
D_1 [mm]	Abrasive	Grit size	Opt. RPM		Item no.	Designation
CD system						
50	SiC	36	3,800 – 13,000	100	42754503	CD 50 SiC 36
		60	3,800 – 13,000	100	42754506	CD 50 SiC 60
		80	3,800 – 13,000	100	42754508	CD 50 SiC 80
		120	3,800 – 13,000	100	42754512	CD 50 SiC 120
		240	3,800 – 13,000	100	42754524	CD 50 SiC 240
75	SiC	36	2,500 – 9,000	50	42754703	CD 75 SiC 36
		60	2,500 – 9,000	50	42754706	CD 75 SiC 60
		80	2,500 – 9,000	50	42754708	CD 75 SiC 80
		120	2,500 – 9,000	50	42754712	CD 75 SiC 120
		240	2,500 – 9,000	50	42754724	CD 75 SiC 240
CDR system						
50	SiC	36	3,800 – 13,000	100	42774503	CDR 50 SiC 36
		60	3,800 – 13,000	100	42774506	CDR 50 SiC 60
		80	3,800 – 13,000	100	42774508	CDR 50 SiC 80
		120	3,800 – 13,000	100	42774512	CDR 50 SiC 120
		240	3,800 – 13,000	100	42774524	CDR 50 SiC 240
75	SiC	36	2,500 – 9,000	50	42774703	CDR 75 SiC 36
		60	2,500 – 9,000	50	42774706	CDR 75 SiC 60
		80	2,500 – 9,000	50	42774708	CDR 75 SiC 80
		120	2,500 – 9,000	50	42774712	CDR 75 SiC 120
		240	2,500 – 9,000	50	42774724	CDR 75 SiC 240

COMBIDISC
Abrasive discs CD, CDR



RS silicon carbide SiC version

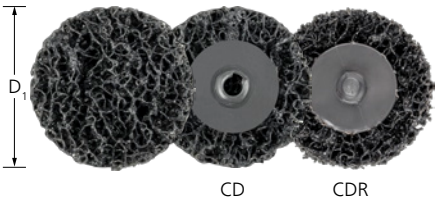
For reverse-side grinding work on components made of aluminium, copper, bronze, titanium and fibre-reinforced plastics. Particularly recommended for use on titanium alloys. Ideally suited for use in the aircraft industry, particularly when SiC is the only abrasive approved for use.



Special features:
- Excellent for weld dressing of backwards repair welds, e.g. in cases, slots and grooves on engines.
- The abrasive coating is located on the underside of the tool. This enables convenient and safe backwards working in hard-to-reach areas.
- Ideal for work on welded-on combustor plates. Order necessary backing pad separately.

D_1 [mm]	Abrasive	Grit size	Opt. RPM		Item no.	Designation
CDR system						
38	SiC	60	10,000 – 16,000	100	*42799016*	CDR 38 SiC 60 RS
		80	10,000 – 16,000	100	*42799017*	CDR 38 SiC 80 RS
		120	10,000 – 16,000	100	*42799018*	CDR 38 SiC 120 RS
50	SiC	60	3,800 – 13,000	100	*42799019*	CDR 50 SiC 60 RS
		80	3,800 – 13,000	100	*42799020*	CDR 50 SiC 80 RS
		120	3,800 – 13,000	100	*42799021*	CDR 50 SiC 120 RS
75	SiC	60	2,500 – 9,000	50	*42799022*	CDR 75 SiC 60 RS
		80	2,500 – 9,000	50	*42799023*	CDR 75 SiC 80 RS
		120	2,500 – 9,000	50	*42799024*	CDR 75 SiC 120 RS

POLICLEAN discs CD, CDR



POLICLEAN standard type

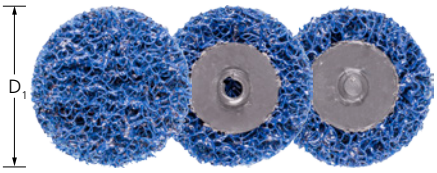
POLICLEAN is a coarsely structured, abrasive, non-woven cleaning fabric made from a special combination of synthetic fibres, resin and abrasive grain. For coarse cleaning work, e.g. removing paint, scale, heat discolouration, rust and adhesive residue.

Special features:
- Very comfortable due to ease of use and low-vibration working.
- No disruptions in use due to adhesion, slipping or coming loose.
- High economic efficiency as tool can be changed quickly thanks to innovative COMBIDISC clamping system. Please order abrasive disc holder separately.

D_1 [mm]	Version	Abrasive	Opt. RPM		Item no.	Designation
CD system						
50	PCLR	SiC	5,500 – 8,000	10	42780050	CD 50 PCLR
75	PCLR	SiC	3,800 – 5,000	10	42780075	CD 75 PCLR
CDR system						
50	PCLR	SiC	5,500 – 8,000	10	47201632	CDR 50 PCLR
75	PCLR	SiC	3,800 – 5,000	10	47201633	CDR 75 PCLR

Discontinued product

COMBIDISC
POLICLEAN discs CD, CDR



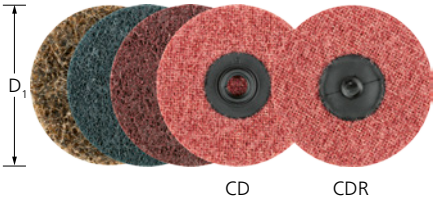
POLICLEAN PLUS type

POLICLEAN PLUS is a coarsely structured, aggressive, non-woven cleaning fabric made from a special combination of synthetic fibres, resin and abrasive grain, with increased tool life and optimum aggressiveness. Suitable for roughening and for coarse cleaning work such as removing paint, scale, heat discolouration, rust and adhesive residues.

Special features:
- Very comfortable due to ease of use and low-vibration working.
- No disruptions in use due to adhesion, slipping or coming loose.
- High economic efficiency as tool can be changed quickly thanks to innovative COMBIDISC clamping system. Please order abrasive disc holder separately.

D_1 [mm]	Version	Abrasive	Opt. RPM		Item no.	Designation
CD system						
50	PCLR PLUS	A	5,500 – 8,000	10	42780051	CD 50 PCLR PLUS
75	PCLR PLUS	A	3,800 – 5,000	10	42780076	CD 75 PCLR PLUS
CDR system						
50	PCLR PLUS	A	5,500 – 8,000	10	42780052	CDR 50 PCLR PLUS
75	PCLR PLUS	A	3,800 – 5,000	10	42780077	CDR 75 PCLR PLUS

Non-woven discs CD, CDR



Hard type VRH

Suitable for general work on small and medium-sized metal surfaces, e.g. removing rough grinding traces, removing oxidation and light deburring work. Achieve matt and satin-finished surfaces.

Special features:
- Very comfortable due to ease of use and low-vibration working.
- No disruptions in use due to adhesion, slipping or coming loose.
- High economic efficiency as tool can be changed quickly thanks to innovative COMBIDISC clamping system. Please order abrasive disc holder separately.

D_1 [mm]	Abrasive	Grit size	Version	Opt. RPM		Item no.	Designation
CD system							
20	A	100 G	coarse, yellow-brown	14,000 – 19,000	50	47201114	CD VRH 20 A 100 G
		180 M	medium, red-brown	14,000 – 19,000	50	47201102	CD VRH 20 A 180 M
		240 F	fine, blue	14,000 – 19,000	50	42761204	CD VRH 20 A 240 F
25	A	100 G	coarse, yellow-brown	11,000 – 15,000	50	42761251	CD VRH 25 A 100 G
		180 M	medium, red-brown	11,000 – 15,000	50	42761252	CD VRH 25 A 180 M
		240 F	fine, blue	11,000 – 15,000	50	42761254	CD VRH 25 A 240 F
38	A	100 G	coarse, yellow-brown	7,000 – 10,000	50	42761381	CD VRH 38 A 100 G
		180 M	medium, red-brown	7,000 – 10,000	50	42761382	CD VRH 38 A 180 M
		240 F	fine, blue	7,000 – 10,000	50	42761384	CD VRH 38 A 240 F
50	A	100 G	coarse, yellow-brown	5,500 – 7,500	50	42761501	CD VRH 50 A 100 G
		180 M	medium, red-brown	5,500 – 7,500	50	42761502	CD VRH 50 A 180 M

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COMBIDISC
Non-woven discs CD, CDR

PFERD TOOLS

D_1 [mm]	Abrasive	Grit size	Version	Opt. RPM		Item no.	Designation
50	A	240 F	fine, blue	5,500 – 7,500	50	42761504	CD VRH 50 A 240 F
75	A	100 G	coarse, yellow-brown	3,800 – 5,000	25	42761751	CD VRH 75 A 100 G
		180 M	medium, red-brown	3,800 – 5,000	25	42761752	CD VRH 75 A 180 M
		240 F	fine, blue	3,800 – 5,000	25	42761754	CD VRH 75 A 240 F
CDR system							
38	A	100 G	coarse, yellow-brown	7,000 – 10,000	50	42781381	CDR VRH 38 A 100 G
		180 M	medium, red-brown	7,000 – 10,000	50	42781382	CDR VRH 38 A 180 M
		240 F	fine, blue	7,000 – 10,000	50	42781384	CDR VRH 38 A 240 F
50	A	100 G	coarse, yellow-brown	5,500 – 7,500	50	42781501	CDR VRH 50 A 100 G
		180 M	medium, red-brown	5,500 – 7,500	50	42781502	CDR VRH 50 A 180 M
		240 F	fine, blue	5,500 – 7,500	50	42781504	CDR VRH 50 A 240 F
75	A	100 G	coarse, yellow-brown	3,800 – 5,000	25	42781751	CDR VRH 75 A 100 G
		180 M	medium, red-brown	3,800 – 5,000	25	42781752	CDR VRH 75 A 180 M
		240 F	fine, blue	3,800 – 5,000	25	42781754	CDR VRH 75 A 240 F

CD CDR

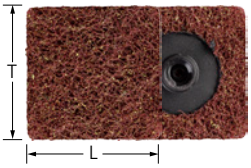
Soft type VRW

Suitable for very fine grinding on small and medium-sized surfaces and contours, and for cleaning metal and painted surfaces. Achieve matt and satin-finished surfaces. Highly open structure.

Special features:
- Very comfortable due to ease of use and low-vibration working.
- No disruptions in use due to adhesion, slipping or coming loose.
- High economic efficiency as tool can be changed quickly thanks to innovative COMBIDISC clamping system. Please order abrasive disc holder separately.

D_1 [mm]	Abrasive	Grit size	Version	Opt. RPM		Item no.	Designation
CD system							
38	A	100	medium	7,000 – 10,000	50	47201079	CD VRW 38 A 100
		180	fine	7,000 – 10,000	50	47201070	CD VRW 38 A 180
		280	very fine	7,000 – 10,000	50	47201071	CD VRW 38 A 280
50	A	100	medium	5,500 – 7,500	50	42760502	CD VRW 50 A 100
		180	fine	5,500 – 7,500	50	42760503	CD VRW 50 A 180
		280	very fine	5,500 – 7,500	50	42760504	CD VRW 50 A 280
75	A	100	medium	3,800 – 5,000	25	42760752	CD VRW 75 A 100
		180	fine	3,800 – 5,000	25	42760753	CD VRW 75 A 180
		280	very fine	3,800 – 5,000	25	42760754	CD VRW 75 A 280
CDR system							
50	A	100	medium	5,500 – 7,500	50	42780502	CDR VRW 50 A 100
		180	fine	5,500 – 7,500	50	42780503	CDR VRW 50 A 180
		280	very fine	5,500 – 7,500	50	42780504	CDR VRW 50 A 280
75	A	100	medium	3,800 – 5,000	25	42780752	CDR VRW 75 A 100
		180	fine	3,800 – 5,000	25	42780753	CDR VRW 75 A 180
		280	very fine	3,800 – 5,000	25	42780754	CDR VRW 75 A 280

COMBIDISC
Non-woven discs CD, CDR



Soft type VRW for linear grinding

Suitable for very fine grinding on small and medium-sized surfaces and contours, and for cleaning metal and painted surfaces. Achieve matt and satin-finished surfaces with a linear surface finish. Highly open structure.

Special features:
- High economic efficiency as tool can be changed quickly. Please order necessary abrasive disc holder separately.
- Very comfortable due to smooth running and very precise working.
- No disruptions in use due to adhesion, slipping or coming loose.

L [mm]	T [mm]	Abrasive	Grit size	Version		Item no.	Designation
CD system							
35	35	A	100	coarse	50	42780499	CD VRW SQ 35x35 A 100
			180	medium	50	42780500	CD VRW SQ 35x35 A 180
			280	fine	50	42780501	CD VRW SQ 35x35 A 280

CD CDR

PNER type

For achieving a very fine, uniform surface finish which, depending on requirements, is a sufficient preparation for high-gloss polishing. Particularly suitable for work on small and medium-sized surfaces on stainless steel (INOX) components.

Special features:
- Very comfortable due to ease of use and low-vibration working.
- No disruptions in use due to adhesion, slipping or coming loose.
- High economic efficiency as tool can be changed quickly thanks to innovative COMBIDISC clamping system. Please order abrasive disc holder separately.

D_1 [mm]	Version	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
CD system								
50	W (soft)	A	G (coarse)	9,500	19,100	25	42759021	CD PNER-W 5006 A G
		SiC	F (fine)	9,500	19,100	25	42759024	CD PNER-W 5006 SiC F
	MH (medium-hard)	A	F (fine)	9,500	19,100	25	42759102	CD PNER-MH 5006 A F
			G (coarse)	9,500	19,100	25	47700204	CD PNER-MH 5006 A G
		SiC	F (fine)	9,500	19,100	25	42759104	CD PNER-MH 5006 SiC F
	H (hard)	A	G (coarse)	9,500	19,100	25	42759141	CD PNER-H 5006 A G
			F (fine)	9,500	19,100	25	42759142	CD PNER-H 5006 A F
75	W (soft)	A	G (coarse)	6,400	12,500	25	42759031	CD PNER-W 7506 A G
		SiC	F (fine)	6,400	12,500	25	42759034	CD PNER-W 7506 SiC F
	MH (medium-hard)	A	F (fine)	6,400	12,500	25	42759112	CD PNER-MH 7506 A F
			G (coarse)	6,400	12,500	25	47700205	CD PNER-MH 7506 A G
		SiC	F (fine)	6,400	12,500	25	42759114	CD PNER-MH 7506 SiC F
	H (hard)	A	G (coarse)	6,400	12,500	25	42759151	CD PNER-H 7506 A G
			F (fine)	6,400	12,500	25	42759152	CD PNER-H 7506 A F
CDR system								
50	W (soft)	A	G (coarse)	9,500	19,100	25	42779021	CDR PNER-W 5006 A G
		SiC	F (fine)	9,500	19,100	25	42779024	CDR PNER-W 5006 SiC F
	MH (medium-hard)	A	F (fine)	9,500	19,100	25	42779102	CDR PNER-MH 5006 A F
			G (coarse)	9,500	19,100	25	47700206	CDR PNER-MH 5006 A G
		SiC	F (fine)	9,500	19,100	25	42779104	CDR PNER-MH 5006 SiC F
	H (hard)	A	G (coarse)	9,500	19,100	25	42779141	CDR PNER-H 5006 A G

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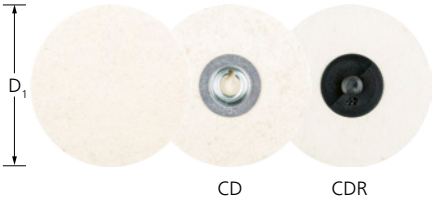
COMBIDISC
Non-woven discs CD, CDR

D_1 [mm]	Version	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
50	H (hard)	A	F (fine)	9,500	19,100	25	42779142	CDR PNER-H 5006 A F
75	W (soft)	A	G (coarse)	6,400	12,500	25	42779031	CDR PNER-W 7506 A G
		SiC	F (fine)	6,400	12,500	25	42779034	CDR PNER-W 7506 SiC F
	MH (medium-hard)	A	F (fine)	6,400	12,500	25	42779112	CDR PNER-MH 7506 A F
			G (coarse)	6,400	12,500	25	47700207	CDR PNER-MH 7506 A G
		SiC	F (fine)	6,400	12,500	25	42779114	CDR PNER-MH 7506 SiC F
	H (hard)	A	G (coarse)	6,400	12,500	25	42779151	CDR PNER-H 7506 A G
			F (fine)	6,400	12,500	25	42779152	CDR PNER-H 7506 A F

Felt discs CD, CDR



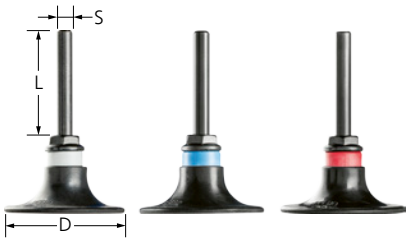
FR version

Suitable for polishing with polishing paste bars, grinding pastes or diamond polishing pastes in face-down grinding on small and medium-sized surfaces.

Special features:
- Very comfortable due to ease of use and low-vibration working.
- No disruptions in use due to adhesion, slipping or coming loose.
- High economic efficiency as tool can be changed quickly thanks to innovative COMBIDISC clamping system. Please order abrasive disc holder separately.

D_1 [mm]	Opt. RPM		Item no.	Designation
CD system				
50	2,000 – 4,000	10	42770050	CD FR 50
75	1,200 – 2,500	10	42770075	CD FR 75
CDR system				
50	2,000 – 4,000	10	42003050	CDR FR 50
75	1,200 – 2,500	10	42003075	CDR FR 75

COMBIDISC
Abrasive disc holder

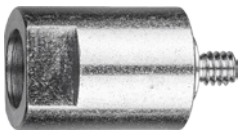


SBH, SBHR types

Matching arbors for COMBIDISC grinding tools.

Special features:
- High economic efficiency as tool can be changed quickly. Very comfortable due to ease of use and low-vibration working.
- No disruptions in use due to adhesion, slipping or coming loose.

D [mm]	S [mm]	L [mm]	Hardness	Max. RPM		Item no.	Designation
CD system							
20	6	40	M (medium)	47,500	1	42721202	SBH 20 M
25	6	40	M (medium)	38,000	1	42721252	SBH 25 M
38	6	40	W (soft)	25,000	1	42721383	SBH 38 W
			M (medium)	25,000	1	42721382	SBH 38 M
			H (hard)	25,000	1	42721381	SBH 38 H
50	6	40	W (soft)	19,000	1	42721503	SBH 50 W
			M (medium)	19,000	1	42721502	SBH 50 M
			H (hard)	19,000	1	42721501	SBH 50 H
75	6	40	W (soft)	12,500	1	42721753	SBH 75 W
			M (medium)	12,500	1	42721752	SBH 75 M
			H (hard)	12,500	1	42721751	SBH 75 H
CDR system							
20	6	40	M (medium)	47,500	1	42721212	SBHR 20 M
25	6	40	M (medium)	38,000	1	42721262	SBHR 25 M
38	6	40	W (soft)	25,000	1	42721393	SBHR 38 W
			M (medium)	25,000	1	42721392	SBHR 38 M
			H (hard)	25,000	1	42721391	SBHR 38 H
50	6	40	W (soft)	19,000	1	42721513	SBHR 50 W
			M (medium)	19,000	1	42721512	SBHR 50 M
			H (hard)	19,000	1	42721511	SBHR 50 H
75	6	40	W (soft)	12,500	1	42721763	SBHR 75 W
			M (medium)	12,500	1	42721762	SBHR 75 M
			H (hard)	12,500	1	42721761	SBHR 75 H



Adapter for drives with M14 spindle

The shank of the abrasive disc holders can be replaced by this adapter. AF M5 CD 1/4-20 UNC, male thread M5, male thread 1/4-20 UNC.

Special features:
- Suitable for drives with M14 spindle.
- With the adapter, the abrasive disc holder can be mounted directly to the drive spindle of the tool drive.

Female thread	External thread		Item no.	Designation
M14	1/4-20 UNC	1	84205010	AF 14-1/4 CD

Adapter for spindle 1/4-20 UNC

The shank of the abrasive disc holders can be replaced by this adapter.

Special features:
- With the adapter, the abrasive disc holder can be mounted directly to the drive spindle of the tool drive.
- Suitable for drives with spindle 1/4- 20 UNC, e.g. for PW 3/120 DH.

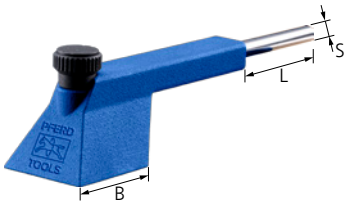
Suitable for		Item no.	Designation
1/4-20 UNC	1	87100727	SPV20 CD 1/4-20 UNC

Adapter for cordless angle grinder dia. 75 mm with M5 spindle

The shank of the abrasive disc holders can be replaced by this adapter. AF M5 CD 1/4-20 UNC, male thread M5, male thread 1/4-20 UNC.

Special features:
- Suitable for cordless angle grinder dia. 75 mm with M5 spindle (female thread).

Suitable for		Item no.	Designation
Cordless angle grinder with SBH/SBHR 20, 25, 38, 50	1	84205030	AF M5 CD 1/4-20 UNC



Abrasive disc holder for linear grinding

The abrasive disc holder for linear grinding is suitable for use on an air-powered filing machine with square abrasive discs.

Special features:
- High economic efficiency as tool can be changed quickly.
- No disruptions in use due to adhesion, slipping or coming loose.
- Very comfortable due to smooth running and very precise working.

B [mm]	S [mm]	L [mm]		Item no.	Designation
35	6	45	1	42723535	CD H SQ 35x35

COMBIDISC set

COMBIDISC set

Set of various COMBIDISC tools.

Contents:
Three each of the following COMBIDISC abrasive discs with abrasive and grit size: A FORTE 60, A FORTE 120, A COOL 60, CO-COOL 36, z 60, three each of the following COMBIDISC non-woven discs: VRH A 180 M, VRW A 100 and one abrasive disc holder SBH M.

Special features:
- Ideal selection for completing a variety of tasks and getting to know the system.
- Coordinated selection of the most common versions.

Diameter [mm]		Item no.	Designation
50	1	42790050	COMBIDISC SET 50
75	1	42790075	COMBIDISC SET 75

Flexible abrasives
General information

PFERD TOOLS

The quick way to find the perfect tool

Material group ▾			Abrasive ▸ Rec. cutting speeds for short and long belts [m/s]	Aluminium oxide A	Aluminium oxide A, compact grain	Zircon Z	Aluminium oxide A-COOL	Ceramic oxide grain CO	Ceramic oxide grain CO-COOL	VICTOGRAIN-COOL	Non-woven material	Felt
Steel, cast steel	Non-hardened, non-heat-treated steels	Construction steels, carbon steels, tool steels, non-alloyed steels, cast steel	25–35	●		○		●		●	●	●
	Hardened, heat-treated steels	Tool steels, tempering steels, alloyed steels, cast steel	20–30	○	●	●		●		●	○	●
Stainless steel (INOX)	Rust and acid-resistant steels	Austenitic and ferritic stainless steels	15–25		●	○	●		●	●	●	●
Non-ferrous metals	Soft non-ferrous metals, non-ferrous metals	Soft aluminium alloys	30–40	○			●		○		●	●
		Brass, copper, zinc		●		○		○			●	●
	Hard non-ferrous metals	Hard aluminium alloys	20–30	●		○		○			●	●
		Bronze, titanium				○		○	●	●	●	●
	High-temperature-resistant materials	Nickel-based and cobalt-based alloys	5–15			○		○	●	●	●	●
Cast iron	Grey cast iron, white cast iron	Cast iron with flake graphite EN-GJL (GG), with nodular graphite/nodular cast iron EN-GJS (GGG), white annealed cast iron EN-GJMW (GTW), black annealed cast iron EN-GJMB (GTS)	25–35	●		○		●			●	
Plastics, other materials		Fibre-reinforced plastics, thermoplastics, wood, chipboard, paint	10–25	●							●	●

● = highly suitable ○ = suitable

Safety notes

- Follow the safety notes from FEPA (Federation of European Producers of Abrasives) “Safety notes for correct use of abrasive belts”. This information can be found in the download area on **www.pferd.com**.

Wear eye protection!

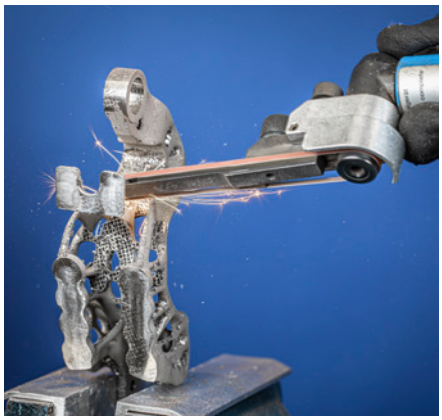
Wear hearing protection!

Wear gloves!

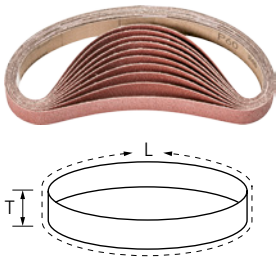
Wear a dust mask!

Follow the safety instructions!

Not permitted for wet grinding!



Flexible abrasives
Short belts BA



Aluminium oxide A version

For general applications from coarse to fine grinding.

Special features:
- High economic efficiency due to high abrasive performance and long tool life.
- High tear strength with optimum flexibility.
- Consistent results through very good grain adhesion.

L [mm]	T [mm]	Abrasive	Grit size	Acc. to ISO		Item no.	Designation
305	3	A	60	-	100	45001953	BA 3/305 T A 60
			120	-	100	45001955	BA 3/305 T A 120
	6	A	60	-	100	45001983	BA 6/305 T A 60
			80	-	100	45001984	BA 6/305 T A 80
			180	-	100	45001987	BA 6/305 T A 180
	9	A	60	-	100	45002223	BA 9/305 T A 60
			80	-	100	45002224	BA 9/305 T A 80
			120	-	100	45002225	BA 9/305 T A 120
			180	-	100	45002227	BA 9/305 T A 180
	12	A	40	-	100	45002331	BA 12/305 X A 40
			60	-	100	45002333	BA 12/305 T A 60
			80	-	100	45002334	BA 12/305 T A 80
			120	-	100	45002335	BA 12/305 T A 120
			180	-	100	45002337	BA 12/305 T A 180
330	10	A	60	ISO 2976	100	45002236	BA 10/330 T A 60
			80	ISO 2976	100	45002238	BA 10/330 T A 80
			120	ISO 2976	100	45002242	BA 10/330 T A 120
			180	ISO 2976	100	45002248	BA 10/330 T A 180
450	35	A	60	-	20	45005206	BA 35/450 X A 60
			100	-	20	45005210	BA 35/450 X A 100
			240	-	20	45005224	BA 35/450 X A 240
			320	-	20	45005232	BA 35/450 X A 320
	50	A	40	ISO 2976	20	45005404	BA 50/450 X A 40
			60	ISO 2976	20	45005406	BA 50/450 X A 60
			100	ISO 2976	20	45005410	BA 50/450 X A 100
			240	ISO 2976	20	45005424	BA 50/450 X A 240
457	13	A	40	ISO 2976	100	45002624	BA 13/457 X A 40
			60	ISO 2976	100	45002626	BA 13/457 T A 60
			80	ISO 2976	100	45002628	BA 13/457 T A 80
			120	ISO 2976	100	45002632	BA 13/457 T A 120
480	20	A	40	ISO 2976	10	45004904	BA 20/480 X A 40
			50	ISO 2976	10	45002905	BA 20/480 T A 50
			60	ISO 2976	10	45002906	BA 20/480 T A 60
			80	ISO 2976	10	45002908	BA 20/480 T A 80
			120	ISO 2976	10	45002912	BA 20/480 T A 120
			180	ISO 2976	10	45002918	BA 20/480 T A 180
			240	ISO 2976	10	45002924	BA 20/480 T A 240
520	3	A	60	-	100	45001973	BA 3/520 T A 60
			80	-	100	45001974	BA 3/520 T A 80
			120	-	100	45001975	BA 3/520 T A 120
			180	-	100	45001977	BA 3/520 T A 180
			240	-	100	45001978	BA 3/520 T A 240

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Flexible abrasives
Short belts BA

PFERD TOOLS

L [mm]	T [mm]	Abrasive	Grit size	Acc. to ISO		Item no.	Designation
520	6	A	40	ISO 2976	100	45004104	BA 6/520 X A 40
			60	ISO 2976	100	45002106	BA 6/520 J A 60
			80	ISO 2976	100	45002108	BA 6/520 J A 80
			120	ISO 2976	100	45002112	BA 6/520 J A 120
			180	ISO 2976	100	45002118	BA 6/520 T A 180
			240	ISO 2976	100	45002124	BA 6/520 T A 240
			400	ISO 2976	100	45002140	BA 6/520 T A 400
	12	A	40	-	100	45004504	BA 12/520 X A 40
			60	-	100	45002506	BA 12/520 J A 60
			80	-	100	45002508	BA 12/520 J A 80
			120	-	100	45002512	BA 12/520 J A 120
			180	-	100	45002518	BA 12/520 T A 180
			240	-	100	45002524	BA 12/520 T A 240
			320	-	100	45002532	BA 12/520 T A 320
			400	-	100	45002540	BA 12/520 T A 400
	16	A	40	ISO 2976	50	45004804	BA 16/520 X A 40
			60	ISO 2976	50	45002806	BA 16/520 T A 60
			80	ISO 2976	50	45002808	BA 16/520 T A 80
			120	ISO 2976	50	45002812	BA 16/520 T A 120
			180	ISO 2976	50	45002818	BA 16/520 T A 180
	20	A	40	ISO 2976	20	45005004	BA 20/520 X A 40
			60	ISO 2976	20	45003006	BA 20/520 T A 60
			80	ISO 2976	20	45003008	BA 20/520 T A 80
			120	ISO 2976	20	45003012	BA 20/520 T A 120
			180	ISO 2976	20	45003018	BA 20/520 T A 180
			240	ISO 2976	20	45003024	BA 20/520 T A 240
533	30	A	40	-	20	45005142	BA 30/533 X A 40
			60	-	20	45005146	BA 30/533 X A 60
			80	-	20	45005148	BA 30/533 X A 80
			120	-	20	45005152	BA 30/533 X A 120
			180	-	20	45005118	BA 30/533 T A 180
			240	-	20	45005124	BA 30/533 T A 240
			320	-	20	45005132	BA 30/533 T A 320
	75	A	40	ISO 2976	10	45001104	BA 75/533 X A 40
			60	ISO 2976	10	45001106	BA 75/533 X A 60
			80	ISO 2976	10	45001108	BA 75/533 X A 80
			100	ISO 2976	10	45001110	BA 75/533 X A 100
			120	ISO 2976	10	45001112	BA 75/533 X A 120
610	12	A	40	ISO 2976	100	45004604	BA 12/610 X A 40
			60	ISO 2976	100	45002606	BA 12/610 J A 60
			80	ISO 2976	100	45002608	BA 12/610 J A 80
			120	ISO 2976	100	45002612	BA 12/610 J A 120
	30	A	40	-	10	45005153	BA 30/610 X A 40
			60	-	10	45005154	BA 30/610 X A 60
			80	-	10	45005155	BA 30/610 X A 80
			120	-	10	45005156	BA 30/610 X A 120
			180	-	10	45005157	BA 30/610 T A 180
			240	-	10	45005158	BA 30/610 T A 240
	100	A	40	ISO 2976	10	45001304	BA 100/610 X A 40
			60	ISO 2976	10	45001306	BA 100/610 X A 60
			80	ISO 2976	10	45001308	BA 100/610 X A 80
			100	ISO 2976	10	45001310	BA 100/610 X A 100
			120	ISO 2976	10	45001312	BA 100/610 X A 120
760	40	A	40	-	10	45000205	BA 40/760 A 40

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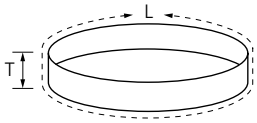
L [mm]	T [mm]	Abrasive	Grit size	Acc. to ISO		Item no.	Designation
760	40	A	60	-	10	45000206	BA 40/760 A 60
			80	-	10	45000207	BA 40/760 A 80
			120	-	10	45000208	BA 40/760 A 120
820	40	A	40	-	10	45000220	BA 40/820 A 40
			60	-	10	45000221	BA 40/820 A 60
			80	-	10	45000222	BA 40/820 A 80
			120	-	10	45000223	BA 40/820 A 120
920	100	A	40	-	10	45005864	BA 100/920 X A 40
			60	-	10	45005866	BA 100/920 X A 60
			80	-	10	45005868	BA 100/920 X A 80
			120	-	10	45005872	BA 100/920 X A 120

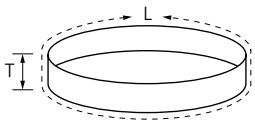


Aluminium oxide A compact grain version

Outstandingly suited to fine and very fine grinding, and for step-by-step preparations for polishing. The self-sharpening compact grain facilitates a very long tool life and achieves consistent surface quality levels throughout the entire tool life.

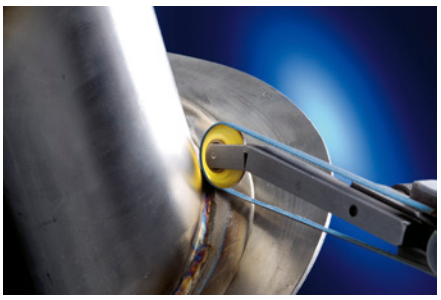
Special features:
- High economic efficiency due to high abrasive performance and long tool life.
- High tear strength with optimum flexibility.
- Consistent results through very good grain adhesion.

L [mm]	T [mm]	Abrasive	Grit size		Item no.	Designation
760	40	A-CK	120	10	45000209	BA 40/760 A 120 CK
			180	10	45000210	BA 40/760 A 180 CK
			240	10	45000211	BA 40/760 A 240 CK
			320	10	45000212	BA 40/760 A 320 CK
			400	10	45000213	BA 40/760 A 400 CK
			600	10	45000214	BA 40/760 A 600 CK
820	40	A-CK	120	10	45000224	BA 40/820 A 120 CK
			180	10	45000225	BA 40/820 A 180 CK
			240	10	45000226	BA 40/820 A 240 CK
			320	10	45000227	BA 40/820 A 320 CK
			400	10	45000228	BA 40/820 A 400 CK
			600	10	45000229	BA 40/820 A 600 CK



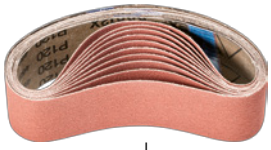
Zirconia alumina Z version

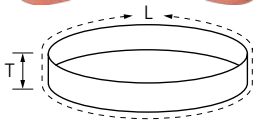
For coarse grinding work with a high stock removal rate and a long tool life.



Special features:
- High economic efficiency due to high abrasive performance and long tool life.
- High tear strength with optimum flexibility.
- Consistent results through very good grain adhesion.

L [mm]	T [mm]	Abrasive	Grit size	Acc. to ISO		Item no.	Designation
330	10	Z	40	ISO 2976	100	45007904	BA 10/330 T Z 40
			60	ISO 2976	100	45007906	BA 10/330 T Z 60
	12	Z	60	ISO 2976	100	45007926	BA 12/330 T Z 60
			80	ISO 2976	100	45007928	BA 12/330 T Z 80
520	12	Z	40	ISO 2976	100	45009104	BA 12/520 X Z 40
			60	ISO 2976	100	45008106	BA 12/520 T Z 60
			80	ISO 2976	100	45008108	BA 12/520 T Z 80
	20	Z	36	ISO 2976	20	45009402	BA 20/520 X Z 36
			40	ISO 2976	20	45009404	BA 20/520 X Z 40
			60	ISO 2976	20	45008406	BA 20/520 T Z 60
			80	ISO 2976	20	45009408	BA 20/520 T Z 80
610	12	Z	40	ISO 2976	100	45009204	BA 12/610 X Z 40
			60	ISO 2976	100	45008206	BA 12/610 T Z 60
			80	ISO 2976	100	45008208	BA 12/610 T Z 80



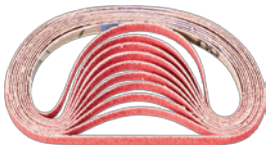


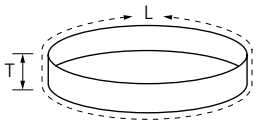
Aluminium oxide A-COOL version

For general grinding work from fine to very fine grinding on materials which do not conduct heat well, e.g. stainless steel (INOX). Active grinding additives substantially improve the stock removal rate, prevent clogging and result in cooler grinding.

Special features:
- High economic efficiency due to high abrasive performance and long tool life.
- High tear strength with optimum flexibility.
- Consistent results through very good grain adhesion.

L [mm]	T [mm]	Abrasive	Grit size	Acc. to ISO		Item no.	Designation
450	50	A-COOL	80	ISO 2976	20	45007208	BA 50/450 A-COOL 80
			120	ISO 2976	20	45007212	BA 50/450 A-COOL 120
			180	ISO 2976	20	45007218	BA 50/450 A-COOL 180





Ceramic oxide grain CO-COOL version

Consistently high performance and aggressive grinding due to self-sharpening ceramic oxide grain. Active grinding additives improve the stock removal rate, prevent clogging and result in cooler grinding on hard materials which do not conduct heat well.

Special features:

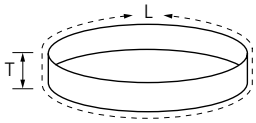
- High economic efficiency due to high abrasive performance and long tool life.
- High tear strength with optimum flexibility.
- Consistent results through very good grain adhesion.

L [mm]	T [mm]	Abrasive	Grit size	Acc. to ISO		Item no.	Designation
305	6	CO-COOL	40	-	100	45020001	BA 6/305 CO-COOL 40
			60	-	100	45020003	BA 6/305 CO-COOL 60
			80	-	100	45020004	BA 6/305 CO-COOL 80
			120	-	100	45020005	BA 6/305 CO-COOL 120
	9	CO-COOL	40	ISO 2976	100	45020031	BA 9/305 CO-COOL 40
			60	ISO 2976	100	45020033	BA 9/305 CO-COOL 60
			80	ISO 2976	100	45020034	BA 9/305 CO-COOL 80
			120	ISO 2976	100	45020035	BA 9/305 CO-COOL 120
	12	CO-COOL	40	-	100	45020051	BA 12/305 CO-COOL 40
			60	-	100	45020053	BA 12/305 CO-COOL 60
			80	-	100	45020054	BA 12/305 CO-COOL 80
			120	-	100	45020055	BA 12/305 CO-COOL 120
330	10	CO-COOL	40	ISO 2976	100	45020041	BA 10/330 CO-COOL 40
			60	ISO 2976	100	45020043	BA 10/330 CO-COOL 60
			80	ISO 2976	100	45020044	BA 10/330 CO-COOL 80
			120	ISO 2976	100	45020045	BA 10/330 CO-COOL 120
	12	CO-COOL	40	ISO 2976	100	45020061	BA 12/330 CO-COOL 40
			60	ISO 2976	100	45020063	BA 12/330 CO-COOL 60
			80	ISO 2976	100	45020064	BA 12/330 CO-COOL 80
			120	ISO 2976	100	45020065	BA 12/330 CO-COOL 120
450	35	CO-COOL	40	-	20	45020171	BA 35/450 CO-COOL 40
			60	-	20	45020173	BA 35/450 CO-COOL 60
			80	-	20	45020174	BA 35/450 CO-COOL 80
			120	-	20	45020175	BA 35/450 CO-COOL 120
	50	CO-COOL	40	ISO 2976	20	45020181	BA 50/450 CO-COOL 40
			60	ISO 2976	20	45020183	BA 50/450 CO-COOL 60
			80	ISO 2976	20	45020184	BA 50/450 CO-COOL 80
			120	ISO 2976	20	45020185	BA 50/450 CO-COOL 120
457	13	CO-COOL	40	ISO 2976	100	45020091	BA 13/457 CO-COOL 40
			60	ISO 2976	100	45020093	BA 13/457 CO-COOL 60
			80	ISO 2976	100	45020094	BA 13/457 CO-COOL 80
			120	ISO 2976	100	45020095	BA 13/457 CO-COOL 120
480	16	CO-COOL	40	ISO 2976	50	45020101	BA 16/480 CO-COOL 40
			60	ISO 2976	50	45020103	BA 16/480 CO-COOL 60
			80	ISO 2976	50	45020104	BA 16/480 CO-COOL 80
			120	ISO 2976	50	45020105	BA 16/480 CO-COOL 120
	20	CO-COOL	40	ISO 2976	20	45020121	BA 20/480 CO-COOL 40
			60	ISO 2976	20	45020123	BA 20/480 CO-COOL 60
			80	ISO 2976	20	45020124	BA 20/480 CO-COOL 80
			120	ISO 2976	20	45020125	BA 20/480 CO-COOL 120

Continued on next page

Flexible abrasives
Short belts BA

L [mm]	T [mm]	Abrasive	Grit size	Acc. to ISO		Item no.	Designation
480	25	CO-COOL	40	ISO 2976	20	45020141	BA 25/480 CO-COOL 40
			60	ISO 2976	20	45020143	BA 25/480 CO-COOL 60
			80	ISO 2976	20	45020144	BA 25/480 CO-COOL 80
			120	ISO 2976	20	45020145	BA 25/480 CO-COOL 120
520	6	CO-COOL	40	ISO 2976	100	45020011	BA 6/520 CO-COOL 40
			60	ISO 2976	100	45020013	BA 6/520 CO-COOL 60
			80	ISO 2976	100	45020014	BA 6/520 CO-COOL 80
			120	ISO 2976	100	45020015	BA 6/520 CO-COOL 120
	12	CO-COOL	40	ISO 2976	100	45020071	BA 12/520 CO-COOL 40
			60	ISO 2976	100	45020073	BA 12/520 CO-COOL 60
			80	ISO 2976	100	45020074	BA 12/520 CO-COOL 80
			120	ISO 2976	100	45020075	BA 12/520 CO-COOL 120
	16	CO-COOL	40	ISO 2976	50	45020111	BA 16/520 CO-COOL 40
			60	ISO 2976	50	45020113	BA 16/520 CO-COOL 60
			80	ISO 2976	50	45020114	BA 16/520 CO-COOL 80
			120	ISO 2976	50	45020115	BA 16/520 CO-COOL 120
	20	CO-COOL	40	ISO 2976	20	45020131	BA 20/520 CO-COOL 40
			60	ISO 2976	20	45020133	BA 20/520 CO-COOL 60
			80	ISO 2976	20	45020134	BA 20/520 CO-COOL 80
			120	ISO 2976	20	45020135	BA 20/520 CO-COOL 120
533	30	CO-COOL	40	-	20	45020151	BA 30/533 CO-COOL 40
			60	-	20	45020153	BA 30/533 CO-COOL 60
			80	-	20	45020154	BA 30/533 CO-COOL 80
			120	-	20	45020155	BA 30/533 CO-COOL 120
610	6	CO-COOL	40	ISO 2976	100	45020021	BA 6/610 CO-COOL 40
			60	ISO 2976	100	45020023	BA 6/610 CO-COOL 60
			80	ISO 2976	100	45020024	BA 6/610 CO-COOL 80
			120	ISO 2976	100	45020025	BA 6/610 CO-COOL 120
	12	CO-COOL	40	ISO 2976	100	45020081	BA 12/610 CO-COOL 40
			60	ISO 2976	100	45020083	BA 12/610 CO-COOL 60
			80	ISO 2976	100	45020084	BA 12/610 CO-COOL 80
			120	ISO 2976	100	45020085	BA 12/610 CO-COOL 120
	30	CO-COOL	40	-	10	45020161	BA 30/610 CO-COOL 40
			60	-	10	45020163	BA 30/610 CO-COOL 60
			80	-	10	45020164	BA 30/610 CO-COOL 80
			120	-	10	45020165	BA 30/610 CO-COOL 120
760	40	CO-COOL	40	-	10	45000201	BA 40/760 CO-COOL 40
			60	-	10	45000202	BA 40/760 CO-COOL 60
			80	-	10	45000203	BA 40/760 CO-COOL 80
			120	-	10	45000204	BA 40/760 CO-COOL 120
820	40	CO-COOL	40	-	10	45000216	BA 40/820 CO-COOL 40
			60	-	10	45000217	BA 40/820 CO-COOL 60
			80	-	10	45000218	BA 40/820 CO-COOL 80
			120	-	10	45000219	BA 40/820 CO-COOL 120



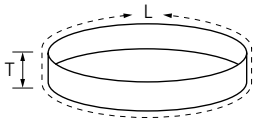
VICTOGRAIN-COOL version

For maximum aggressive grinding with an extremely long tool life, the ultimate stock removal rate and consistently high performance on steel and hard materials which do not conduct heat well. Active grinding additives in the coating prevent clogging and result in cooler grinding.

Special features:
- High economic efficiency due to high abrasive performance and long tool life.
- High tear strength with optimum flexibility.
- Consistent results through very good grain adhesion.

L [mm]	T [mm]	Abrasive	Grit size	Acc. to ISO		Item no.	Designation
450	50	VICTOGRAIN-COOL	36	ISO 2976	10	45001175	BA 50/450 VICTOGRAIN-COOL 36
760	40	VICTOGRAIN-COOL	36	ISO 2976	10	45000200	BA 40/760 VICTOGRAIN-COOL 36
820	40	VICTOGRAIN-COOL	36	ISO 2976	10	45000215	BA 40/820 VICTOGRAIN-COOL 36

Short belts VB



Non-woven version

Suitable for general work on surfaces such as metal tubular structures, e.g. removing rough grinding traces, removing oxidation and light deburring work. Achieve matt and satin-finished surfaces.

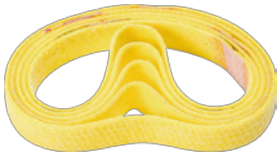
Special features:
- High economic efficiency due to high abrasive performance and long tool life.
- High tear strength with optimum flexibility.
- Consistent results through very good grain adhesion.

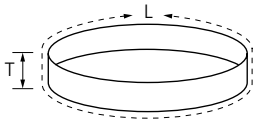
L [mm]	T [mm]	Abrasive	Grit size	Version		Item no.	Designation
305	6	A	100 G	coarse, yellow-brown	10	45010610	VB 6/305 A 100 G
			180 M	medium, red-brown	10	45010618	VB 6/305 A 180 M
			240 F	fine, blue	10	45010624	VB 6/305 A 240 F
	9	A	100 G	coarse, yellow-brown	10	45010710	VB 9/305 A 100 G
			180 M	medium, red-brown	10	45010718	VB 9/305 A 180 M
			240 F	fine, blue	10	45010724	VB 9/305 A 240 F
	12	A	100 G	coarse, yellow-brown	10	45010810	VB 12/305 A 100 G
			180 M	medium, red-brown	10	45010818	VB 12/305 A 180 M
			240 F	fine, blue	10	45010824	VB 12/305 A 240 F
450	35	A	100 G	coarse, yellow-brown	10	45011410	VB 35/450 A 100 G
			180 M	medium, red-brown	10	45011418	VB 35/450 A 180 M
			240 F	fine, blue	10	45011424	VB 35/450 A 240 F
	50	A	100 G	coarse, yellow-brown	10	45011510	VB 50/450 A 100 G
			180 M	medium, red-brown	10	45011518	VB 50/450 A 180 M
			240 F	fine, blue	10	45011524	VB 50/450 A 240 F
520	6	A	100 G	coarse, yellow-brown	10	45011010	VB 6/520 A 100 G
			180 M	medium, red-brown	10	45011018	VB 6/520 A 180 M

Continued on next page

L [mm]	T [mm]	Abrasive	Grit size	Version		Item no.	Designation
520	6	A	240 F	fine, blue	10	45011024	VB 6/520 A 240 F
	12	A	100 G	coarse, yellow-brown	10	45011110	VB 12/520 A 100 G
			180 M	medium, red-brown	10	45011118	VB 12/520 A 180 M
			240 F	fine, blue	10	45011124	VB 12/520 A 240 F
	16	A	100 G	coarse, yellow-brown	10	45011210	VB 16/520 A 100 G
			180 M	medium, red-brown	10	45011218	VB 16/520 A 180 M
			240 F	fine, blue	10	45011224	VB 16/520 A 240 F
	20	A	100 G	coarse, yellow-brown	5	45011310	VB 20/520 A 100 G
			180 M	medium, red-brown	5	45011318	VB 20/520 A 180 M
			240 F	fine, blue	5	45011324	VB 20/520 A 240 F
533	30	A	100 G	coarse, yellow-brown	5	45010910	VB 30/533 A 100 G
			180 M	medium, red-brown	5	45010918	VB 30/533 A 180 M
			240 F	fine, blue	5	45010924	VB 30/533 A 240 F
610	6	A	100 G	coarse, yellow-brown	10	45011810	VB 6/610 A 100 G
			180 M	medium, red-brown	10	45011818	VB 6/610 A 180 M
			240 F	fine, blue	10	45011824	VB 6/610 A 240 F
	12	A	100 G	coarse, yellow-brown	10	45011910	VB 12/610 A 100 G
			180 M	medium, red-brown	10	45011918	VB 12/610 A 180 M
			240 F	fine, blue	10	45011924	VB 12/610 A 240 F
	30	A	100 G	coarse, yellow-brown	5	45011350	VB 30/610 A 100 G
			180 M	medium, red-brown	5	45011351	VB 30/610 A 180 M
			240 F	fine, blue	5	45011352	VB 30/610 A 240 F
760	40	A	100 G	coarse, yellow-brown	5	45000230	VB 40/760 A 100 G
			180 M	medium, red-brown	5	45000231	VB 40/760 A 180 M
			240 F	fine, blue	5	45000232	VB 40/760 A 240 F
820	40	A	100 G	coarse, yellow-brown	5	45000234	VB 40/820 A 100 G
			180 M	medium, red-brown	5	45000235	VB 40/820 A 180 M
			240 F	fine, blue	5	45000236	VB 40/820 A 240 F

Short belts P-BA





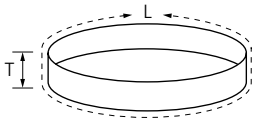
Felt version

Suitable for polishing with polishing paste bars and grinding pastes on tubular constructions and railings.

Special features:

- High economic efficiency due to long tool life.
- High tear strength with optimum flexibility.
- Consistent results through very good polishing agent adhesion.

L [mm]	T [mm]		Item no.	Designation
533	30	5	45008501	P-BA 30/533
610	30	5	45008502	P-BA 30/610
760	40	5	45000233	P-BA 40/760
820	40	5	45000237	P-BA 40/820

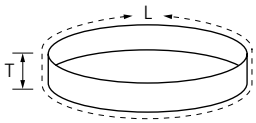


Aluminium oxide A compact grain version

Outstandingly suited to fine and very fine grinding, and for step-by-step preparations for polishing. The self-sharpening compact grain facilitates a very long tool life and achieves consistent surface quality levels throughout the entire tool life.

Special features:
- High economic efficiency due to high abrasive performance and long tool life.
- High tear strength with optimum flexibility.
- The rubber tube of the drum yields under higher contact pressure, meaning the abrasive belt adapts very well to the surface of the workpiece.

L [mm]	T [mm]	Abrasive	Grit size		Item no.	Designation
282	100	A-CK	120	5	45001158	BA 100/282 A 120 CK
			180	5	45001160	BA 100/282 A 180 CK
			240	5	45001162	BA 100/282 A 240 CK
			320	5	45001164	BA 100/282 A 320 CK
			400	5	45001166	BA 100/282 A 400 CK
			600	5	45001168	BA 100/282 A 600 CK
			800	5	45001170	BA 100/282 A 800 CK
			1000	5	45001172	BA 100/282 A 1000 CK
			1200	5	45001174	BA 100/282 A 1200 CK

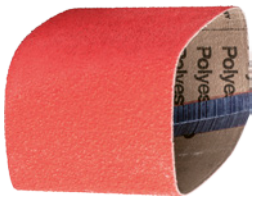


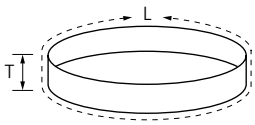
Zirconia alumina Z version

For coarse grinding work with a high stock removal rate and a long tool life.

Special features:
- High economic efficiency due to high abrasive performance and long tool life.
- High tear strength with optimum flexibility.
- The rubber tube of the drum yields under higher contact pressure, meaning the abrasive belt adapts very well to the surface of the workpiece.

L [mm]	T [mm]	Abrasive	Grit size		Item no.	Designation
282	100	Z	40	5	45001152	BA 100/282 Z 40
			60	5	45001154	BA 100/282 Z 60
			80	5	45001156	BA 100/282 Z 80





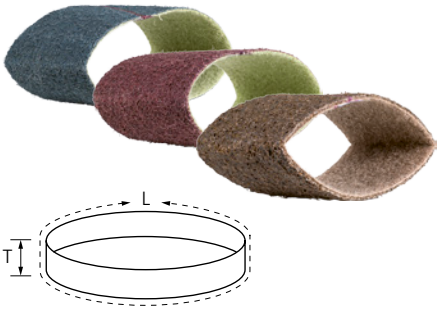
Ceramic oxide grain CO-COOL version

Consistently high performance and aggressive grinding due to self-sharpening ceramic oxide grain. Active grinding additives improve the stock removal rate, prevent clogging and result in cooler grinding on hard materials which do not conduct heat well.

Special features:
- High economic efficiency due to high abrasive performance and long tool life.
- High tear strength with optimum flexibility.
- The rubber tube of the drum yields under higher contact pressure, meaning the abrasive belt adapts very well to the surface of the workpiece.

L [mm]	T [mm]	Abrasive	Grit size		Item no.	Designation
282	100	CO-COOL	40	5	45001150	BA 100/282 CO-COOL 40
			60	5	47501880	BA 100/282 CO-COOL 60
			80	5	47501885	BA 100/282 CO-COOL 80
			120	5	47501881	BA 100/282 CO-COOL 120

Flexible abrasives
Belts for pneumatic drums

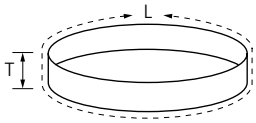


Non-woven version

Suitable for general work on surfaces such as metal structures, e.g. removing rough grinding traces, removing oxidation and light deburring work. Achieve matt and satin-finished surfaces.

Special features:
- High economic efficiency due to high abrasive performance and long tool life.
- High tear strength with optimum flexibility.
- The rubber tube of the drum yields under higher contact pressure, meaning the non-woven belt adapts very well to the surface of the workpiece.

L [mm]	T [mm]	Abrasive	Grit size	Version		Item no.	Designation
282	100	A	100 G	coarse, yellow-brown	2	45011707	VB 100/282 A 100 G
			180 M	medium, red-brown	2	45011708	VB 100/282 A 180 M
			240 F	fine, blue	2	45011709	VB 100/282 A 240 F



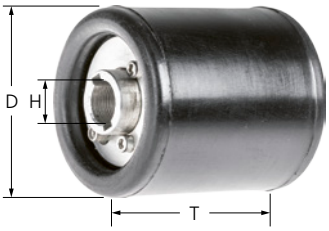
Felt version

Suitable for polishing with polishing paste bars and grinding pastes on large surfaces.

Special features:
- High economic efficiency through very good polishing agent adhesion.
- High tear strength with optimum flexibility.
- The rubber tube of the drum yields under higher contact pressure, meaning the polishing belt adapts very well to the surface of the workpiece.

L [mm]	T [mm]		Item no.	Designation
282	100	2	45008503	P-BA 100/282

Pneumatic drum



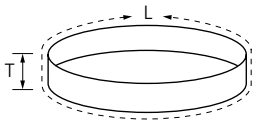
Pneumatic drum

The pneumatic grinding drum is suitable for short belts with a width of 100 mm and a length of 282 mm. The rubber tube yields with increased contact pressure, which is why the abrasive belt adapts very well to the surface to be machined and the contact area increases.

Special features:
- High economic efficiency due to high abrasive performance and long tool life.
- The rubber tube of the drum yields under higher contact pressure, meaning the abrasive, non-woven or polishing belt adapts very well to the surface of the workpiece.

Suitable for short belts [mm]	D [mm]	T [mm]	H [mm]	Max. RPM		Item no.	Designation
282 x 100	90	100	19	3,800	1	42100100	PSW 90x100

Flexible abrasives
Long belts BA



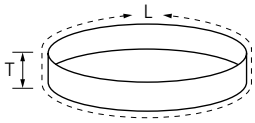
Aluminium oxide A version

For general applications from coarse to fine grinding.

Special features:

- High economic efficiency due to high abrasive performance and long tool life.
- High tear strength with optimum flexibility.
- Consistent results through very good grain adhesion.

L [mm]	T [mm]	Abrasive	Grit size	Acc. to ISO		Item no.	Designation
1,000	50	A	60	ISO 2976	10	45005556	BA 50/1000 X A 60
			80	ISO 2976	10	45005558	BA 50/1000 X A 80
			120	ISO 2976	10	45005562	BA 50/1000 X A 120
	100	A	40	ISO 2976	10	45005904	BA 100/1000 X A 40
			60	ISO 2976	10	45005906	BA 100/1000 X A 60
			80	ISO 2976	10	45005908	BA 100/1000 X A 80
			120	ISO 2976	10	45005912	BA 100/1000 X A 120
2,000	50	A	40	ISO 2976	10	45005604	BA 50/2000 X A 40
			60	ISO 2976	10	45005606	BA 50/2000 X A 60
			80	ISO 2976	10	45005608	BA 50/2000 X A 80
			120	ISO 2976	10	45005612	BA 50/2000 X A 120
	75	A	36	ISO 2976	10	45005703	BA 75/2000 X A 36
			40	ISO 2976	10	45005704	BA 75/2000 X A 40
			60	ISO 2976	10	45005706	BA 75/2000 X A 60
			80	ISO 2976	10	45005708	BA 75/2000 X A 80
			120	ISO 2976	10	45005712	BA 75/2000 X A 120
	150	A	36	ISO 2976	10	45006003	BA 150/2000 X A 36
			40	ISO 2976	10	45006004	BA 150/2000 X A 40
			60	ISO 2976	10	45006006	BA 150/2000 X A 60
			80	ISO 2976	10	45006008	BA 150/2000 X A 80
2,500	75	A	36	ISO 2976	10	45005803	BA 75/2500 X A 36
			40	ISO 2976	10	45005804	BA 75/2500 X A 40
			60	ISO 2976	10	45005806	BA 75/2500 X A 60
			80	ISO 2976	10	45005808	BA 75/2500 X A 80
			120	ISO 2976	10	45005812	BA 75/2500 X A 120

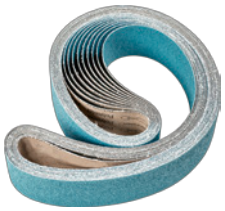


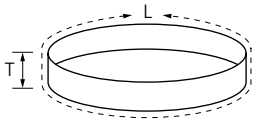
Zirconia alumina Z version

For coarse grinding work with a high stock removal rate and a long tool life.

Special features:
- High economic efficiency due to high abrasive performance and long tool life.
- High tear strength with optimum flexibility.
- Consistent results through very good grain adhesion.

L [mm]	T [mm]	Abrasive	Grit size	Acc. to ISO		Item no.	Designation
1,000	100	Z	40	ISO 2976	10	45009804	BA 100/1000 X Z 40
			60	ISO 2976	10	45009806	BA 100/1000 X Z 60
			80	ISO 2976	10	45009808	BA 100/1000 X Z 80
			120	ISO 2976	10	45009812	BA 100/1000 X Z 120
2,000	50	Z	24	ISO 2976	10	45009502	BA 50/2000 X Z 24
			36	ISO 2976	10	45009503	BA 50/2000 X Z 36
			40	ISO 2976	10	45009504	BA 50/2000 X Z 40
			60	ISO 2976	10	45009506	BA 50/2000 X Z 60
			80	ISO 2976	10	45009508	BA 50/2000 X Z 80
			120	ISO 2976	10	45009512	BA 50/2000 X Z 120
	75	Z	24	ISO 2976	10	45009602	BA 75/2000 X Z 24
			36	ISO 2976	10	45009603	BA 75/2000 X Z 36
			40	ISO 2976	10	45009604	BA 75/2000 X Z 40
			60	ISO 2976	10	45009606	BA 75/2000 X Z 60
			80	ISO 2976	10	45009608	BA 75/2000 X Z 80
			120	ISO 2976	10	45009612	BA 75/2000 X Z 120
	150	Z	36	ISO 2976	10	45009903	BA 150/2000 X Z 36
			40	ISO 2976	10	45009904	BA 150/2000 X Z 40
			60	ISO 2976	10	45009906	BA 150/2000 X Z 60
			80	ISO 2976	10	45009908	BA 150/2000 X Z 80
			120	ISO 2976	10	45009912	BA 150/2000 X Z 120
2,250	75	Z	40	ISO 2976	10	45009734	BA 75/2250 X Z 40
			60	ISO 2976	10	45009736	BA 75/2250 X Z 60
2,500	75	Z	36	ISO 2976	10	45009703	BA 75/2500 X Z 36
			40	ISO 2976	10	45009704	BA 75/2500 X Z 40
			60	ISO 2976	10	45009706	BA 75/2500 X Z 60
			80	ISO 2976	10	45009708	BA 75/2500 X Z 80
	150	Z	36	ISO 2976	10	45009936	BA 150/2500 X Z 36



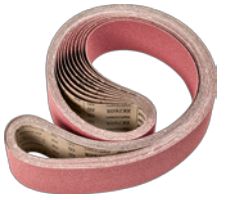


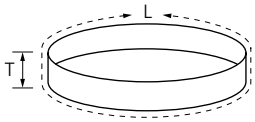
Zirconia alumina Z-FORTE version

For coarse grinding work with a high stock removal rate and long tool life and very cool grinding. Particularly suitable for work on thin-walled stainless steel (INOX) components and on steels or nickel-based alloys that do not conduct heat well.

Special features:
- High economic efficiency due to high abrasive performance and long tool life.
- High tear strength with optimum flexibility.
- Consistent results through very good grain adhesion.

L [mm]	T [mm]	Abrasive	Grit size	Acc. to ISO		Item no.	Designation
2,000	75	Z-FORTE	36 FORTE	ISO 2976	10	*45010063*	BA 75/2000 X Z 36 FORTE
			40 FORTE	ISO 2976	10	*45010064*	BA 75/2000 X Z 40 FORTE
			60 FORTE	ISO 2976	10	*45010066*	BA 75/2000 X Z 60 FORTE
			80 FORTE	ISO 2976	10	*45010068*	BA 75/2000 X Z 80 FORTE
2,500	75	Z-FORTE	36 FORTE	ISO 2976	10	*45010073*	BA 75/2500 X Z 36 FORTE





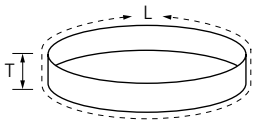
Ceramic oxide grain CO version

For aggressive grinding with maximum stock removal rate and very long tool life. Consistently high performance due to self-sharpening ceramic oxide grain. The ceramic oxide grain is specifically designed for work on hard materials and layers.

Special features:
- High economic efficiency due to high abrasive performance and long tool life.
- High tear strength with optimum flexibility.
- Consistent results through very good grain adhesion.

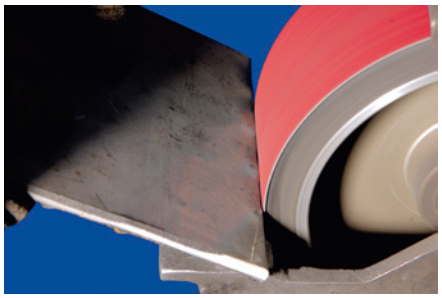
L [mm]	T [mm]	Abrasive	Grit size	Acc. to ISO		Item no.	Designation
2,000	50	CO	24	ISO 2976	10	*45005620*	BA 50/2000 X CO 24
			36	ISO 2976	10	*45005621*	BA 50/2000 X CO 36
			40	ISO 2976	10	*45005622*	BA 50/2000 X CO 40
			50	ISO 2976	10	*45005623*	BA 50/2000 X CO 50
			60	ISO 2976	10	*45005624*	BA 50/2000 X CO 60
			80	ISO 2976	10	*45005625*	BA 50/2000 X CO 80
			120	ISO 2976	10	*45005626*	BA 50/2000 X CO 120
	75	CO	24	ISO 2976	10	45005720	BA 75/2000 X CO 24
			36	ISO 2976	10	45005721	BA 75/2000 X CO 36
			40	ISO 2976	10	45005722	BA 75/2000 X CO 40
			50	ISO 2976	10	45005723	BA 75/2000 X CO 50
			60	ISO 2976	10	45005724	BA 75/2000 X CO 60
			80	ISO 2976	10	45005725	BA 75/2000 X CO 80

Discontinued product



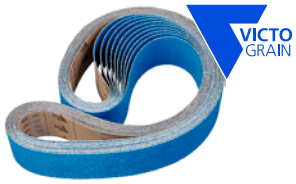
Ceramic oxide grain CO-COOL version

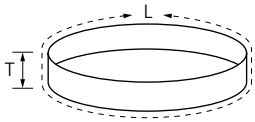
Consistently high performance and aggressive grinding due to self-sharpening ceramic oxide grain. Active grinding additives improve the stock removal rate, prevent clogging and result in cooler grinding on hard materials which do not conduct heat well.



Special features:
- High economic efficiency due to high abrasive performance and long tool life.
- High tear strength with optimum flexibility.
- Consistent results through very good grain adhesion.

L [mm]	T [mm]	Abrasive	Grit size	Acc. to ISO		Item no.	Designation
2,000	50	CO-COOL	36	ISO 2976	10	45005631	BA 50/2000 X CO-COOL 36
			40	ISO 2976	10	45005632	BA 50/2000 X CO-COOL 40
			60	ISO 2976	10	45005634	BA 50/2000 X CO-COOL 60
			80	ISO 2976	10	45005635	BA 50/2000 X CO-COOL 80
			120	ISO 2976	10	45005636	BA 50/2000 X CO-COOL 120
	75	CO-COOL	36	ISO 2976	10	45005731	BA 75/2000 X CO-COOL 36
			40	ISO 2976	10	45005732	BA 75/2000 X CO-COOL 40
			60	ISO 2976	10	45005734	BA 75/2000 X CO-COOL 60
			80	ISO 2976	10	45005735	BA 75/2000 X CO-COOL 80
			120	ISO 2976	10	45005736	BA 75/2000 X CO-COOL 120
2,500	75	CO-COOL	36	ISO 2976	10	45005825	BA 75/2500 X CO-COOL 36
			40	ISO 2976	10	45005826	BA 75/2500 X CO-COOL 40
			60	ISO 2976	10	45005828	BA 75/2500 X CO-COOL 60
			80	ISO 2976	10	45005829	BA 75/2500 X CO-COOL 80
			120	ISO 2976	10	45005830	BA 75/2500 X CO-COOL 120





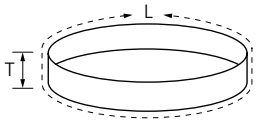
VICTOGRAIN-COOL version

For maximum aggressive grinding with an extremely long tool life, the ultimate stock removal rate and consistently high performance on steel and hard materials which do not conduct heat well. Active grinding additives in the coating prevent clogging and result in cooler grinding.

Special features:
- High economic efficiency due to high abrasive performance and long tool life.
- High tear strength with optimum flexibility.
- Consistent results through very good grain adhesion.

L [mm]	T [mm]	Abrasive	Grit size	Acc. to ISO		Item no.	Designation
2,000	50	VICTOGRAIN-COOL	36	ISO 2976	10	45005637	BA 50/2000 VICTOGRAIN-COOL 36
	75	VICTOGRAIN-COOL	36	ISO 2976	10	45005638	BA 75/2000 VICTOGRAIN-COOL 36
2,500	75	VICTOGRAIN-COOL	36	ISO 2976	10	45005639	BA 75/2500 VICTOGRAIN-COOL 36

Flexible abrasives
Long belts BA



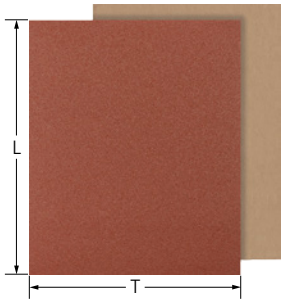
Non-woven version

Suitable for general work on metal surfaces in stationary applications, e.g. removing rough grinding traces, removing oxidation and light deburring work. Achieve matt and satin-finished surfaces.

Special features:
- High economic efficiency due to high abrasive performance and long tool life.
- High tear strength with optimum flexibility.
- Consistent results through very good grain adhesion.

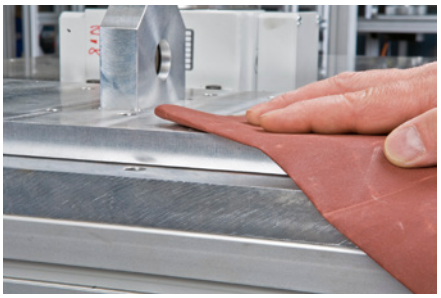
L [mm]	T [mm]	Abrasive	Grit size	Version		Item no.	Designation
2,000	75	A	100 G	coarse, yellow-brown	2	45011701	VB 75/2000 A 100 G
			180 M	medium, red-brown	2	45011702	VB 75/2000 A 180 M
			240 F	fine, blue	2	45011703	VB 75/2000 A 240 F

Cloth-backed abrasive sheets BG



Aluminium oxide A, brown BR type

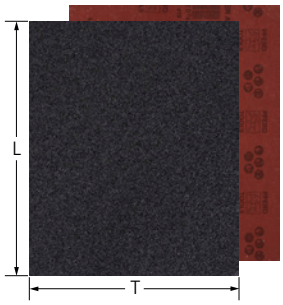
The brown cloth-backed variant is suitable for general, heavy-duty use on alloyed and non-alloyed steels, as well as non-ferrous metals.



Special features:
- Very good grain adhesion on very flexible cloth.
- High abrasive performance.
- Oil and kerosene-resistant.

L [mm]	T [mm]	Abrasive	Grit size		Item no.	Designation
280	230	A	40	50	45013004	BG BR 230x280 A 40
			60	50	45013006	BG BR 230x280 A 60
			80	50	45013008	BG BR 230x280 A 80
			100	50	45013010	BG BR 230x280 A 100
			120	50	45013012	BG BR 230x280 A 120
			150	50	45013015	BG BR 230x280 A 150
			180	50	45013018	BG BR 230x280 A 180
			220	50	45013022	BG BR 230x280 A 220
			240	50	45013024	BG BR 230x280 A 240
			280	50	45013028	BG BR 230x280 A 280
			320	50	45013032	BG BR 230x280 A 320
			400	50	45013040	BG BR 230x280 A 400
			444	50	*45013044*	BG BR 230x280 A 444

Discontinued product

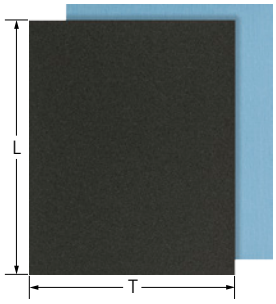


A, BR ECO aluminium oxide version

The cloth-backed variant is suitable for general, heavy-duty use when working on painted surfaces, wood and metal.

Special features:
- Good grain adhesion on flexible cloth.
- Good abrasive performance.
- High tear strength with optimum quality.

L [mm]	T [mm]	Abrasive	Grit size		Item no.	Designation
280	230	A	100	50	47503622	BG ECO BR 230X280 A 100
			120	50	47503623	BG ECO BR 230X280 A 120
			150	50	47503624	BG ECO BR 230X280 A 150
			180	50	47503625	BG ECO BR 230X280 A 180
			220	50	47503626	BG ECO BR 230X280 A 220
			240	50	47503627	BG ECO BR 230X280 A 240
			40	50	47503619	BG ECO BR 230X280 A 40
			60	50	47503620	BG ECO BR 230X280 A 60
			80	50	47503621	BG ECO BR 230X280 A 80



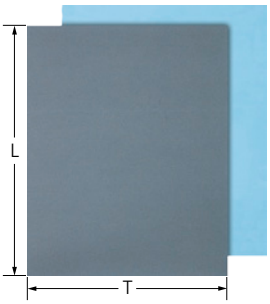
Aluminium oxide A, blue BL type

The blue cloth-backed variant is the low-cost alternative for normal workloads when working on painted wooden and metal surfaces.

Special features:
- Good grain adhesion on sturdy cloth.
- Good abrasive performance.

L [mm]	T [mm]	Abrasive	Grit size		Item no.	Designation
280	230	A	40	50	*45012004*	BG BL 230x280 A 40
			60	50	*45012006*	BG BL 230x280 A 60
			80	50	*45012008*	BG BL 230x280 A 80
			100	100	*45012010*	BG BL 230x280 A 100
			120	100	*45012012*	BG BL 230x280 A 120
			150	100	*45012015*	BG BL 230x280 A 150
			180	100	*45012018*	BG BL 230x280 A 180
			220	100	*45012022*	BG BL 230x280 A 220

New item
Discontinued product

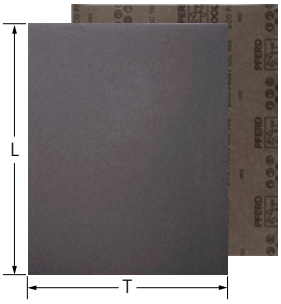


SiC version, waterproof W

The abrasive material SiC is suitable for use on paint and glass. Particularly suitable for all wet grinding work on conventional painted constructions.

Special features:
- Very good grain adhesion on very flexible and light paper.
- Maximum abrasive performance.
- Can be used for wet and dry grinding.

L [mm]	T [mm]	Abrasive	Grit size		Item no.	Designation
280	230	SiC	100	50	45014010	BP W 230x280 SiC 100
			120	50	45014012	BP W 230x280 SiC 120
			150	50	45014015	BP W 230x280 SiC 150
			180	50	45014018	BP W 230x280 SiC 180
			220	50	45015022	BP W 230x280 SiC 220
			240	50	45015024	BP W 230x280 SiC 240
			280	50	45015028	BP W 230x280 SiC 280
			320	50	45015032	BP W 230x280 SiC 320
			360	50	45015036	BP W 230x280 SiC 360
			400	50	45015040	BP W 230x280 SiC 400
			500	50	45015050	BP W 230x280 SiC 500
			600	50	45015060	BP W 230x280 SiC 600
			800	50	45015080	BP W 230x280 SiC 800
			1000	50	45015100	BP W 230x280 SiC 1000
			1200	50	45015120	BP W 230x280 SiC 1200

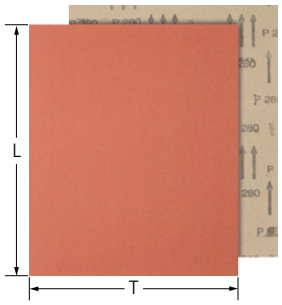


ECO W version

The ECO W version with silicon carbide (SiC) is a low-cost alternative for use on paint and glass. Particularly suitable for all wet grinding work on conventional painted constructions.

Special features:
- Very good grain adhesion on very flexible and light paper.
- Maximum abrasive performance.
- Can be used for wet and dry grinding.

L [mm]	T [mm]	Abrasive	Grit size		Item no.	Designation
280	230	SiC	60	50	45015254	BP-W ECO PAINT 230X280 SiC 60
			80	50	45015255	BP-W ECO PAINT 230X280 SiC 80
			100	50	45015256	BP-W ECO PAINT 230X280 SiC 100
			120	50	45015257	BP-W ECO PAINT 230X280 SiC 120
			150	50	45015258	BP-W ECO PAINT 230X280 SiC 150
			180	50	45015259	BP-W ECO PAINT 230X280 SiC 180
			220	50	45015260	BP-W ECO PAINT 230X280 SiC 220
			240	50	45015261	BP-W ECO PAINT 230X280 SiC 240
			320	50	45015262	BP-W ECO PAINT 230X280 SiC 320
			400	50	45015263	BP-W ECO PAINT 230X280 SiC 400
			600	50	45015264	BP-W ECO PAINT 230X280 SiC 600
			800	50	45015265	BP-W ECO PAINT 230X280 SiC 800
			1000	50	45015266	BP-W ECO PAINT 230X280 SiC1000
			1200	50	45015267	BP-W ECO PAINT 230X280 SiC1200
			2000	50	45015268	BP-W ECO PAINT 230X280 SiC2000

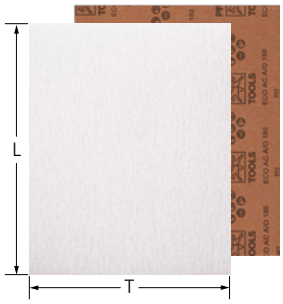


Aluminium oxide A version

The abrasive material aluminium oxide A is the low-cost alternative for normal workloads when working on painted wooden and metal surfaces.

Special features:
- Good grain adhesion on sturdy paper.
- Good abrasive performance.

L [mm]	T [mm]	Abrasive	Grit size		Item no.	Designation
280	230	A	40	50	45015204	BP 230x280 A 40
			60	50	45015206	BP 230x280 A 60
			80	50	45015208	BP 230x280 A 80
			100	100	45015210	BP 230x280 A 100
			120	100	45015212	BP 230x280 A 120
			150	100	45015215	BP 230x280 A 150
			180	100	45015218	BP 230x280 A 180
			220	100	45015222	BP 230x280 A 220
			240	100	45015224	BP 230x280 A 240
			280	100	45015228	BP 230x280 A 280
			400	100	45015240	BP 230x280 A 400

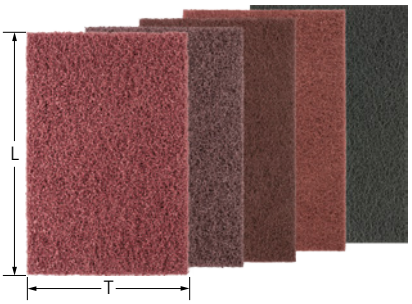


ECO AC version

The stearate coating is a non-stick coating (AC) that prevents the abrasive sheets from clogging. The ECO AC version with aluminium oxide A is a low-cost alternative for general grinding work in industry and professional trades.

Special features:
- High abrasive performance through very good grain adhesion.
- The non-stick coating (AC) prevents clogging with low wear.

L [mm]	T [mm]	Abrasive	Grit size		Item no.	Designation
280	230	A	60	50	45015241	BP ECO AC 230X280 A 60
			80	50	45015242	BP ECO AC 230X280 A 80
			100	50	45015243	BP ECO AC 230X280 A 100
			120	50	45015244	BP ECO AC 230X280 A 120
			150	50	45015245	BP ECO AC 230X280 A 150
			180	50	45015246	BP ECO AC 230X280 A 180
			220	50	45015247	BP ECO AC 230X280 A 220
			240	50	45015248	BP ECO AC 230X280 A 240
			320	50	45015249	BP ECO AC 230X280 A 320
			400	50	45015250	BP ECO AC 230X280 A 400
			600	50	45015251	BP ECO AC 230X280 A 600
			800	50	45015252	BP ECO AC 230X280 A 800
			1000	50	45015253	BP ECO AC 230X280 A 1000

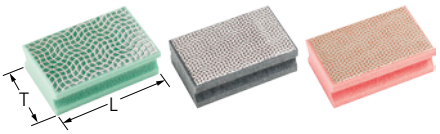


POLINOX hand pads PVSK

Suitable for very fine grinding on small to large surfaces and contours, and for manually cleaning metal and painted surfaces. Achieve matt and satin-finished surfaces. Highly open structure.

Special features:
- Highly flexible, enabling optimal adjustment to the contour.
- Hard-to-reach areas can be accessed.

L [mm]	T [mm]	Abrasive	Grit size	Colour		Item no.	Designation
229	150	A	240	green	20	47201628	PVSK 150 A 280 GREEN
			-	white	20	47201630	PVSK 150 WHITE
225	150	A	80	-	10	44697108	PVSK 150 A 80
			100	-	10	44697110	PVSK 150 A 100
			180	-	10	44697118	PVSK 150 A 180
			280	-	10	44697128	PVSK 150 A 280
		SiC	400	-	10	44697640	PVSK 150 SiC 400

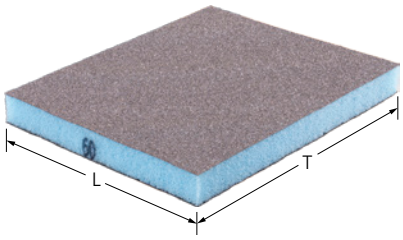


HP diamond type

Excellent for work on wear-resistant coatings and for hard facings. Particularly recommended for work on materials used for aircraft engine construction. Also ideal for work on extremely hard materials.

Special features:
- Highly flexible, enabling optimal adjustment to the contour. Hard-to-reach areas can be accessed.
- Can be used for wet and dry grinding.

L [m]	T [mm]	Abrasive	Grit size [µm]		Item no.	Designation
90	55	DIA	76	1	44696013	HP 5590 DIA 76
			126	1	44696012	HP 5590 DIA 126
			251	1	44696011	HP 5590 DIA 251



Aluminium oxide A version

The sanding sponge is suitable for sanding down flat and irregular surfaces by hand. It is ideal for working on wood, paint and metal, drywall construction and for all types of small workpieces.

Special features:
- Good grain adhesion on the backing material for a long tool life.
- Washable, meaning it can be reused.
- Good abrasive performance.

L [mm]	T [mm]	Grinding surfaces	Abrasive	Grit size		Item no.	Designation
69	98	4	A	60	5	44697650	ASP 69x98x26 4S A 60
				100	5	44697651	ASP 69x98x26 4S A 100
				180	5	44697652	ASP 69x98x26 4S A 180
98	120	2	A	60	5	44697653	ASP 98x120x13 2S A 60
				100	5	44697654	ASP 98x120x13 2S A 100
				180	5	44697655	ASP 98x120x13 2S A 180

Sanding sponge sets

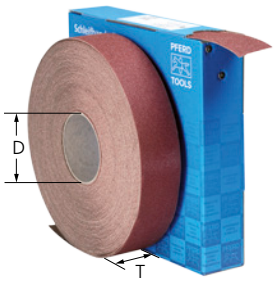
Sanding sponge set

The sanding sponges are suitable for sanding down flat and irregular surfaces by hand. They are ideal for working on wood, paint and metal, drywall construction and for all types of small workpieces. The three-piece set can be used for coarse to fine grinding.

Contents:
One sanding sponge in each of the following grit sizes: 60, 100 and 180.

Special features:
- Good grain adhesion on the backing material for a long tool life.
- Washable, meaning it can be reused.
- Good abrasive performance.

Length [mm]	Width [mm]	Height [mm]		Item no.	Designation
69	98	26	1	44698010	SET ASP 69x98x26 4S
98	120	13	1	44698011	SET ASP 98x120x13 2S



Cloth, aluminium oxide A type

The cloth-backed variant is suitable for general, heavy-duty use on alloyed and non-alloyed steels, as well as non-ferrous metals. The carton has a tear-off edge for separating the sections of abrasive belt at the workplace.

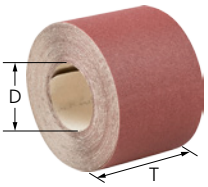
Special features:
- Highly flexible, enabling optimal adjustment to the contour.
- Little wear due to high tear strength and very good grain adhesion.
- Please order matching shop roll holder separately.

T [mm]	Length [m]	D [mm]	Abrasive	Grit size		Item no.	Designation
25	50	75	A	60	1	45016006	SBR-ER 25X50 A 60
				80	1	45016008	SBR-ER 25X50 A 80
				100	1	45016010	SBR 25 A 100
				120	1	45016012	SBR 25 A 120
				150	1	45016015	SBR 25 A 150
				180	1	45016018	SBR 25 A 180
				240	1	45016024	SBR 25 A 240
				320	1	45016032	SBR 25 A 320
				400	1	45016040	SBR 25 A 400
				600	1	45016060	SBR 25 A 600
				800	1	45016080	SBR 25 A 800
38	25	75	A	40	1	45016404	SBR 38 A 40
				50	1	45016405	SBR 38 A 50
				60	1	45016406	SBR 38 A 60
				80	1	45016408	SBR 38 A 80
				100	1	45016410	SBR 38 A 100
				120	1	45016412	SBR 38 A 120
				150	1	45016415	SBR 38 A 150
				180	1	45016418	SBR 38 A 180
				220	1	45016422	SBR 38 A 220
				240	1	45016424	SBR 38 A 240
				320	1	45016432	SBR 38 A 320
				400	1	45016440	SBR 38 A 400
40	50	75	A	40	1	45016104	SBR 40 A 40
				60	1	45016106	SBR 40 A 60
				80	1	45016108	SBR 40 A 80
				100	1	45016110	SBR 40 A 100
				120	1	45016112	SBR 40 A 120
				150	1	45016115	SBR 40 A 150
				180	1	45016118	SBR 40 A 180
				220	1	45016122	SBR 40 A 220
				240	1	45016124	SBR 40 A 240
				320	1	45016132	SBR 40 A 320
				400	1	45016140	SBR 40 A 400
50	50	75	A	40	1	45016204	SBR 50 A 40
				60	1	45016206	SBR 50 A 60
				80	1	45016208	SBR 50 A 80
				100	1	45016210	SBR 50 A 100
				120	1	45016212	SBR 50 A 120
				150	1	45016215	SBR 50 A 150

Continued on next page

T [mm]	Length [m]	D [mm]	Abrasive	Grit size		Item no.	Designation
50	50	75	A	180	1	45016218	SBR 50 A 180
				220	1	45016220	SBR 50 A 220
				240	1	45016224	SBR 50 A 240
				320	1	45016232	SBR 50 A 320
				400	1	45016240	SBR 50 A 400
				600	1	45016260	SBR 50 A 600
100	50	75	A	40	1	45016304	SBR 100 A 40
				60	1	45016306	SBR 100 A 60
				80	1	45016308	SBR 100 A 80
				100	1	45016310	SBR 100 A 100
				120	1	45016312	SBR 100 A 120
				150	1	45016315	SBR 100 A 150
				180	1	45016318	SBR 100 A 180
				240	1	45016324	SBR 100 A 240
				320	1	45016332	SBR 100 A 320
				400	1	45016340	SBR 100 A 400

Shop rolls SBR-P



Paper, aluminium oxide A type

The abrasive material aluminium oxide A is the low-cost alternative for normal workloads when working on painted wooden and metal surfaces.

Special features:
- Highly flexible, enabling optimal adjustment to the contour.
- Little wear due to high tear strength and very good grain adhesion.

T [mm]	Length [m]	D [mm]	Abrasive	Grit size		Item no.	Designation
115	25	75	A	40	1	45016534	SBR-P 115 A 40
				60	1	45016536	SBR-P 115 A 60
				80	1	45016538	SBR-P 115 A 80
				100	1	45016540	SBR-P 115 A 100
				120	1	45016542	SBR-P 115 A 120
				150	1	45016545	SBR-P 115 A 150

SRH 1 version

Holder for wall mounting: for storing and tearing off to the required length as necessary.

Special features:
- Enables the shop rolls to be stored correctly.

Number of rolls	Suitable for roll width [mm]	Suitable for roll diameter [mm]		Item no.	Designation
1	25, 38, 40, 50	380	1	42990001	SRH 1

SRH 5 version

Holder for wall mounting: for storing and tearing off to the required length as necessary. Various roll sizes can be combined with each other as desired.

Special features:
- Enables the shop rolls to be stored correctly.

Number of rolls	Suitable for roll width [mm]	Suitable for roll diameter [mm]		Item no.	Designation
5	25, 38, 40, 50	260	1	42990007	SRH 5

POLINOX non-woven shop rolls VBR

Aluminium oxide A and silicon carbide SiC types

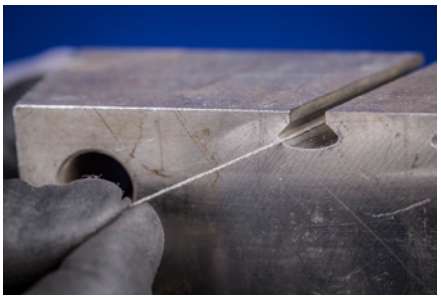
Suitable for very fine grinding on small to large surfaces and contours, and for manually cleaning metal and painted surfaces. Achieve matt and satin-finished surfaces. Highly open structure.

Special features:
- Highly flexible, enabling optimal adjustment to the contour.
- Hard-to-reach areas can be accessed.

T [mm]	Length [m]	Abrasive	Grit size		Item no.	Designation
100	10	A	80	1	45018308	VBR 100 A 80
			100	1	45018310	VBR 100 A 100
			180	1	45018318	VBR 100 A 180
			280	1	45018328	VBR 100 A 280
		SiC	400	1	45018440	VBR 100 SiC 400

AC type

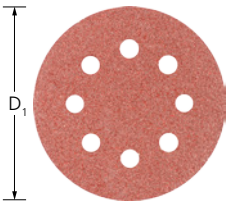
High flexibility, therefore ideal for very fine deburring and finishing work in hard-to-reach places. Especially recommended for work on very small holes, grooves and cut-outs in tool and mould-making. Available in aluminium oxide A and silicon carbide SiC.



Special features:
- Highly flexible, enabling optimal adjustment to the contour.
- Little wear due to high tear strength and very good grain adhesion.
- The abrasive cord can be shortened to the required length.

Diameter [mm]	Length [m]	Grit size		Item no.	Designation
Silicon carbide SiC					
0.5	15	200	1	45019001	AC 0,5 mm x 15 m SiC 200
Aluminium oxide A					
0.8	15	200	1	45019002	AC 0.8 mm x 15 m A 200
1	15	180	1	45019003	AC 1,0 mm x 15 m A 180
1.4	15	150	1	45019004	AC 1,4 mm x 15 m A 150
1.8	15	180	1	45019005	AC 1,8 mm x 15 m A 180
2.1	15	120	1	45019006	AC 2,1 mm x 15 m A 120

Hook and loop-backed abrasive discs KSS



Aluminium oxide A version

Hook and loop-backed abrasive discs are suitable for fine grinding large surfaces with eccentric orbital sanders and for general use on metal, wood, plastic and paint. For general grinding work from coarse to fine grinding in industry and professional trades.

Special features:
- High economic efficiency thanks to quick tool-changing and high grinding performance.
- Maximum tool life through reduced clogging.

D_1 [mm]	Holes	Abrasive	Grit size		Item no.	Designation
125	-	A	40	25	45017760	KSS 125 O L A 40
			60	25	45017761	KSS 125 O L A 60
			80	25	45017762	KSS 125 O L A 80
			100	25	45017763	KSS 125 O L A 100
			120	25	45017764	KSS 125 O L A 120
			150	25	45017765	KSS 125 O L A 150
	8	A	40	25	45017004	KSS 125 8 L A 40
			60	25	45017006	KSS 125 8 L A 60
			80	25	45017008	KSS 125 8 L A 80
			100	25	45017010	KSS 125 8 L A 100
			120	25	45017012	KSS 125 8 L A 120
			150	25	45017015	KSS 125 8 L A 150
			180	25	45017018	KSS 125 8 L A 180
			240	25	45017024	KSS 125 8 L A 240
			320	25	45017032	KSS 125 8 L A 320
			400	25	45017040	KSS 125 8 L A 400

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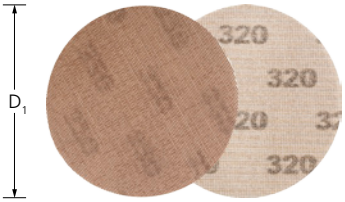
D_1 [mm]	Holes	Abrasive	Grit size		Item no.	Designation
150	-	A	40	25	45017770	KSS 150 O L A 40
			60	25	45017771	KSS 150 O L A 60
			80	25	45017772	KSS 150 O L A 80
			100	25	45017773	KSS 150 O L A 100
			120	25	45017774	KSS 150 O L A 120
			150	25	45017775	KSS 150 O L A 150
			180	25	45017776	KSS 150 O L A 180
			240	25	45017777	KSS 150 O L A 240
	6	A	40	25	45017104	KSS 150 6 L A 40
			60	25	45017106	KSS 150 6 L A 60
			80	25	45017108	KSS 150 6 L A 80
			100	25	45017110	KSS 150 6 L A 100
			120	25	45017112	KSS 150 6 L A 120
			150	25	45017115	KSS 150 6 L A 150
			180	25	45017118	KSS 150 6 L A 180
			240	25	45017124	KSS 150 6 L A 240
			320	25	45017132	KSS 150 6 L A 320
			400	25	45017140	KSS 150 6 L A 400
	8	A	40	25	45017144	KSS 150 8 L A 40
			60	25	45017146	KSS 150 8 L A 60
			80	25	45017148	KSS 150 8 L A 80
			100	25	45017150	KSS 150 8 L A 100
			120	25	45017152	KSS 150 8 L A 120
			150	25	45017155	KSS 150 8 L A 150

Hook and loop-backed abrasive discs KSS-NET



Aluminium oxide A version

NET Hook and loop-backed abrasive discs consist of a netting fabric to which the abrasive grit is stuck using a powerful binding technique, which makes it very robust. For dust-free, general grinding work on medium-sized and large surfaces.

Special features:
- Very long tool life and high stock removal rate.
- Achieves very fine, even surfaces. Dust-free work thanks to good extraction capability.
- Durable netting structure with high tear strength and edge stability.

D_1 [mm]	Abrasive	Grit size		Item no.	Designation
125	A	80	25	45018001	KSS NET 125 A 80
		100	25	45018002	KSS NET 125 A 100
		120	25	45018003	KSS NET 125 A 120
		150	25	45018004	KSS NET 125 A 150
		180	25	45018005	KSS NET 125 A 180
		240	25	45018006	KSS NET 125 A 240
		320	25	45018007	KSS NET 125 A 320
		400	25	45018008	KSS NET 125 A 400
		600	25	45018009	KSS NET 125 A 600
		800	25	45018010	KSS NET 125 A 800

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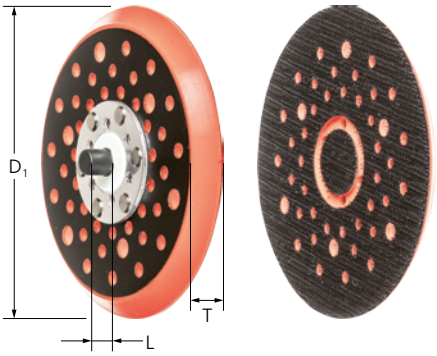
D_1 [mm]	Abrasive	Grit size		Item no.	Designation
125	A	1000	25	45018011	KSS NET 125 A 1000
150	A	80	25	45018012	KSS NET 150 A 80
		100	25	45018013	KSS NET 150 A 100
		120	25	45018014	KSS NET 150 A 120
		150	25	45018015	KSS NET 150 A 150
		180	25	45018016	KSS NET 150 A 180
		240	25	45018017	KSS NET 150 A 240
		320	25	45018018	KSS NET 150 A 320
		400	25	45018019	KSS NET 150 A 400
		600	25	45018020	KSS NET 150 A 600
		800	25	45018021	KSS NET 150 A 800
		1000	25	45018022	KSS NET 150 A 1000

Hook and loop-backed abrasive disc holder

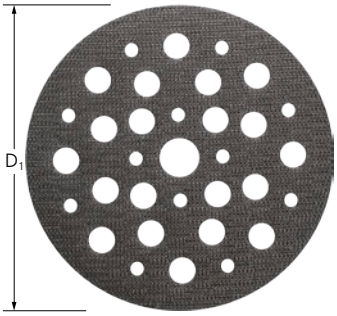


Hook and loop-backed abrasive disc holder

The holder is suitable for general use with various different eccentric orbital sanders with 5/16" thread. When used with NET hook and loop-backed abrasive discs, this backing pad has particular advantages.

Special features:
- Clean, low-dust working environment. Suitable for general use due to multiple holes.
- Compatible with a lot of eccentric orbital sanders and hook and loop discs.
- Extremely strong, durable hook and loop system.

D_1 [mm]	T [mm]	L [mm]	Thread	Suitable for hook and loop-backed abrasive disc diameter [mm]		Item no.	Designation
125	10	9	5/16-24 UNF	125	1	45017778	KSS-H 125-5/16
150	10	9	5/16-24 UNF	150	1	45017779	KSS-H 150-5/16



Protective pad for hook and loop-backed abrasive disc holders

The protective pad protects the backing pad against premature wear and can be used with any type of hook and loop-backed abrasive disc pad. The series of holes in the protective pads for hook and loop-backed abrasive disc holders enables the grinding dust to be extracted very effectively.

Special features:
- Clean, low-dust working environment. Suitable for general use due to multiple holes.
- Compatible with a lot of eccentric orbital sanders, hook and loop-backed abrasive disc holders and hook and loop discs.
- Extremely strong, durable hook and loop system.

D_1 [mm]	Suitable for hook and loop-backed abrasive disc diameter [mm]		Item no.	Designation
125	125	5	45017780	KSS-PP 125
150	150	5	45017781	KSS-PP 150

Abrasive spiral bands
General information

PFERD TOOLS

The quick way to find the perfect tool

Material group ▾			Abrasive ▸ Aluminium oxide A	Zircon Z	Zircon Z-COOL	Ceramic oxide grain CO-COOL	Silicon carbide SiC
Steel, cast steel	Non-hardened, non-heat-treated steels	Construction steels, carbon steels, tool steels, non-alloyed steels, cast steel	●	○		●	
	Hardened, heat-treated steels	Tool steels, tempering steels, alloyed steels, cast steel	○	●		●	
Stainless steel (INOX)	Rust and acidresistant steels	Austenitic and ferritic stainless steels		○	●	●	
Non-ferrous metals	Soft non-ferrous metals, non-ferrous metals	Soft aluminium alloys	○		○	○	
		Brass, copper, zinc	●	○	○		
	Hard non-ferrous metals	Hard aluminium alloys	●	○	○		○
		Bronze, titanium		○	●	●	●
	High-temperature-resistant materials	Nickel-based and cobalt-based alloys		○	●	●	
Cast iron	Grey cast iron, white cast iron	Cast iron with flake graphite EN-GJL (GG), with nodular graphite/nodular cast iron EN-GJS (GGG), white annealed cast iron EN-GJMW (GTW), black annealed cast iron EN-GJMB (GTS)	●	○			
Plastics, other materials		Fibre-reinforced plastics, thermoplastics, wood, chipboard, paint	●				●

● = highly suitable ○ = suitable

Safety notes

- The maximum permitted peripheral speed is 30 m/s.
- For safety reasons, the maximum permitted rotational speed indicated must never be exceeded.
- Do not allow abrasive spiral bands to protrude beyond the rubber drum holder.

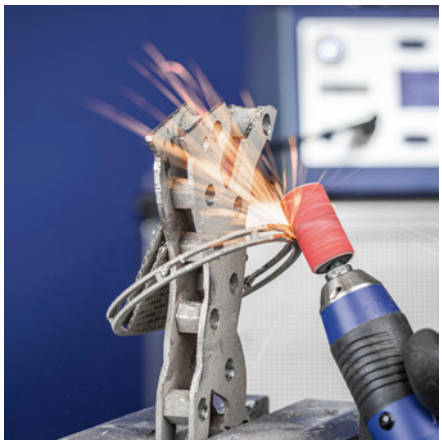
Wear eye protection!

Wear hearing protection!

Wear gloves!

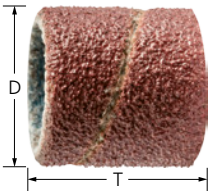
Wear a dust mask!

Follow the safety instructions!



Abrasive spiral bands
Small pack KSB

PFERD TOOLS



Aluminium oxide A version

For general applications from coarse to fine grinding.

Special features:

- The abrasive spiral band is firmly held in place on the rubber drum holder as the holder expands during use. The rubber drum holder must be ordered separately.
- Outstanding tool life due to special manufacturing process – even under the most demanding operating conditions.
- Maximum economic efficiency thanks to particularly high stock removal rate and aggressive abrasive quality.

D [mm]	T [mm]	Abrasive	Grit size	Opt. RPM		Item no.	Designation
Cylindrical shape							
10	10	A	80	30,000 – 44,000	25	*42231108*	KSB 1010 A 80
			150	30,000 – 44,000	25	42231115	KSB 1010 A 150
	20	A	80	30,000 – 44,000	25	42232108	KSB 1020 A 80
			150	30,000 – 44,000	25	42232115	KSB 1020 A 150
			240	30,000 – 44,000	25	42232124	KSB 1020 A 240
13	10	A	80	30,000 – 44,000	25	42233108	KSB 1310 A 80
			150	30,000 – 44,000	25	42233115	KSB 1310 A 150
	25	A	80	30,000 – 44,000	25	42234108	KSB 1325 A 80
			150	30,000 – 44,000	25	42234115	KSB 1325 A 150
15	10	A	60	26,000 – 36,000	25	*42235105*	KSB 1510 A 60
			80	26,000 – 36,000	25	42235108	KSB 1510 A 80
			150	26,000 – 36,000	25	*42235115*	KSB 1510 A 150
	30	A	50	26,000 – 36,000	25	42236103	KSB 1530 A 50
			60	26,000 – 36,000	25	42236105	KSB 1530 A 60
			80	26,000 – 36,000	25	42236108	KSB 1530 A 80
			150	26,000 – 36,000	25	42236115	KSB 1530 A 150
			240	26,000 – 36,000	25	42236124	KSB 1530 A 240
19	25	A	60	20,000 – 30,000	25	42236505	KSB 1925 A 60
			80	20,000 – 30,000	25	42236508	KSB 1925 A 80
			150	20,000 – 30,000	25	42236515	KSB 1925 A 150
			240	20,000 – 30,000	25	42236524	KSB 1925 A 240
22	20	A	50	18,000 – 26,000	25	42237104	KSB 2220 A 50
			60	18,000 – 26,000	25	42237105	KSB 2220 A 60
			80	18,000 – 26,000	25	42237108	KSB 2220 A 80
			150	18,000 – 26,000	25	42237115	KSB 2220 A 150
25	25	A	60	16,000 – 22,900	25	42237505	KSB 2525 A 60
			80	16,000 – 22,900	25	42237508	KSB 2525 A 80
			150	16,000 – 22,900	25	42237515	KSB 2525 A 150
30	20	A	40	13,000 – 19,100	25	42238104	KSB 3020 A 40
			60	13,000 – 19,100	25	42238105	KSB 3020 A 60
			80	13,000 – 19,100	25	42238108	KSB 3020 A 80
			150	13,000 – 19,100	25	42238115	KSB 3020 A 150
	30	A	40	13,000 – 19,100	25	42239104	KSB 3030 A 40
			50	13,000 – 19,100	25	42239103	KSB 3030 A 50
			60	13,000 – 19,100	25	42239105	KSB 3030 A 60
			80	13,000 – 19,100	25	42239108	KSB 3030 A 80
			150	13,000 – 19,100	25	42239115	KSB 3030 A 150
38	25	A	40	10,000 – 15,900	25	42239504	KSB 3825 A 40
			60	10,000 – 15,900	25	42239505	KSB 3825 A 60
			80	10,000 – 15,900	25	42239508	KSB 3825 A 80

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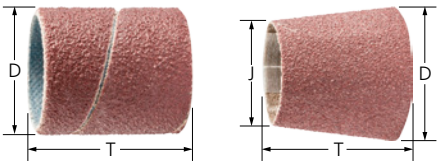
Discontinued product

Abrasive spiral bands
Small pack KSB

D [mm]	T [mm]	Abrasive	Grit size	Opt. RPM		Item no.	Designation
38	25	A	150	10,000 – 15,900	25	*42239515*	KSB 3825 A 150
45	30	A	40	8,500 – 12,700	10	42240104	KSB 4530 A 40
			50	8,500 – 12,700	10	42240103	KSB 4530 A 50
			60	8,500 – 12,700	10	42240105	KSB 4530 A 60
			80	8,500 – 12,700	10	42240108	KSB 4530 A 80
			150	8,500 – 12,700	10	42240115	KSB 4530 A 150
51	25	A	40	7,500 – 11,200	10	42240504	KSB 5125 A 40
			60	7,500 – 11,200	10	42240505	KSB 5125 A 60
			80	7,500 – 11,200	10	42240508	KSB 5125 A 80
			150	7,500 – 11,200	10	42240515	KSB 5125 A 150
60	30	A	40	6,500 – 9,500	10	42241104	KSB 6030 A 40
			50	6,500 – 9,500	10	42241103	KSB 6030 A 50
			60	6,500 – 9,500	10	42241105	KSB 6030 A 60
			80	6,500 – 9,500	10	42241108	KSB 6030 A 80
			150	6,500 – 9,500	10	42241115	KSB 6030 A 150
75	30	A	40	5,000 – 7,600	10	42242104	KSB 7530 A 40
			60	5,000 – 7,600	10	42242105	KSB 7530 A 60
			80	5,000 – 7,600	10	*42242108*	KSB 7530 A 80
			150	5,000 – 7,600	10	*42242115*	KSB 7530 A 150

Bulk pack GSB



Aluminium oxide A version

For general applications from coarse to fine grinding. The packaging size is ideally suited to industrial requirements.

Special features:

- The abrasive spiral band is firmly held in place on the rubber drum holder as the holder expands during use. The rubber drum holder must be ordered separately.
- Outstanding tool life due to special manufacturing process – even under the most demanding operating conditions.
- Maximum economic efficiency thanks to particularly high stock removal rate and aggressive abrasive quality.

D [mm]	J [mm]	T [mm]	Abrasive	Grit size	Opt. RPM		Item no.	Designation
Cylindrical shape								
4	-	10	A	150	30,000 – 55,000	100	42200415	GSB 0410 A 150
6	-	10	A	150	30,000 – 55,000	100	42200615	GSB 0610 A 150
8	-	10	A	150	30,000 – 55,000	100	42200815	GSB 0810 A 150
10	-	10	A	80	30,000 – 44,000	100	42201108	GSB 1010 A 80
				150	30,000 – 44,000	100	42201115	GSB 1010 A 150
		20	A	60	30,000 – 44,000	100	42202106	GSB 1020 A 60
				80	30,000 – 44,000	100	42202108	GSB 1020 A 80
				150	30,000 – 44,000	100	42202115	GSB 1020 A 150
				240	30,000 – 44,000	100	42202124	GSB 1020 A 240
13	-	10	A	80	30,000 – 44,000	100	42203108	GSB 1310 A 80
				150	30,000 – 44,000	100	42203115	GSB 1310 A 150
		25	A	80	30,000 – 44,000	100	42204108	GSB 1325 A 80
				150	30,000 – 44,000	100	42204115	GSB 1325 A 150

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Discontinued product

Abrasive spiral bands
Bulk pack GSB

PFERD TOOLS

D [mm]	J [mm]	T [mm]	Abrasive	Grit size	Opt. RPM		Item no.	Designation
15	-	10	A	60	26,000 – 36,000	100	42205105	GSB 1510 A 60
				80	26,000 – 36,000	100	42205108	GSB 1510 A 80
				150	26,000 – 36,000	100	42205115	GSB 1510 A 150
		30	A	50	26,000 – 36,000	100	42206103	GSB 1530 A 50
				60	26,000 – 36,000	100	42206105	GSB 1530 A 60
				80	26,000 – 36,000	100	42206108	GSB 1530 A 80
				150	26,000 – 36,000	100	42206115	GSB 1530 A 150
				240	26,000 – 36,000	100	42206124	GSB 1530 A 240
19	-	25	A	60	20,000 – 30,000	100	42206505	GSB 1925 A 60
				80	20,000 – 30,000	100	42206508	GSB 1925 A 80
				150	20,000 – 30,000	100	42206515	GSB 1925 A 150
22	-	20	A	50	18,000 – 26,000	100	42207104	GSB 2220 A 50
				60	18,000 – 26,000	100	42207105	GSB 2220 A 60
				80	18,000 – 26,000	100	42207108	GSB 2220 A 80
				150	18,000 – 26,000	100	42207115	GSB 2220 A 150
				240	18,000 – 26,000	100	42207124	GSB 2220 A 240
25	-	25	A	60	16,000 – 22,900	100	42207505	GSB 2525 A 60
				80	16,000 – 22,900	100	42207508	GSB 2525 A 80
				150	16,000 – 22,900	100	42207515	GSB 2525 A 150
30	-	20	A	40	13,000 – 19,100	100	42208104	GSB 3020 A 40
				60	13,000 – 19,100	100	42208105	GSB 3020 A 60
				80	13,000 – 19,100	100	42208108	GSB 3020 A 80
				150	13,000 – 19,100	100	42208115	GSB 3020 A 150
		30	A	40	13,000 – 19,100	100	42209104	GSB 3030 A 40
				50	13,000 – 19,100	100	42209103	GSB 3030 A 50
				60	13,000 – 19,100	100	42209105	GSB 3030 A 60
				80	13,000 – 19,100	100	42209108	GSB 3030 A 80
				150	13,000 – 19,100	100	42209115	GSB 3030 A 150
				240	13,000 – 19,100	100	42209124	GSB 3030 A 240
38	-	25	A	40	10,000 – 15,900	100	42209504	GSB 3825 A 40
				60	10,000 – 15,900	100	42209505	GSB 3825 A 60
				80	10,000 – 15,900	100	42209508	GSB 3825 A 80
				150	10,000 – 15,900	100	42209515	GSB 3825 A 150
45	-	30	A	40	8,500 – 12,700	100	42210104	GSB 4530 A 40
				50	8,500 – 12,700	100	42210103	GSB 4530 A 50
				60	8,500 – 12,700	100	42210105	GSB 4530 A 60
				80	8,500 – 12,700	100	42210108	GSB 4530 A 80
				150	8,500 – 12,700	100	42210115	GSB 4530 A 150
				240	8,500 – 12,700	100	42210124	GSB 4530 A 240
51	-	25	A	40	7,500 – 11,200	100	42210504	GSB 5125 A 40
				60	7,500 – 11,200	100	42210505	GSB 5125 A 60
				80	7,500 – 11,200	100	42210508	GSB 5125 A 80
				150	7,500 – 11,200	100	42210515	GSB 5125 A 150
60	-	30	A	40	6,500 – 9,500	100	42211104	GSB 6030 A 40
				50	6,500 – 9,500	100	42211103	GSB 6030 A 50
				60	6,500 – 9,500	100	42211105	GSB 6030 A 60
				80	6,500 – 9,500	100	42211108	GSB 6030 A 80
				150	6,500 – 9,500	100	42211115	GSB 6030 A 150
75	-	30	A	40	5,000 – 7,600	100	42212104	GSB 7530 A 40
				60	5,000 – 7,600	100	42212105	GSB 7530 A 60
				80	5,000 – 7,600	100	42212108	GSB 7530 A 80
				150	5,000 – 7,600	100	42212115	GSB 7530 A 150
100	-	40	A	40	4,000 – 5,700	50	42213104	GSB 10040 A 40
				60	4,000 – 5,700	50	42213105	GSB 10040 A 60

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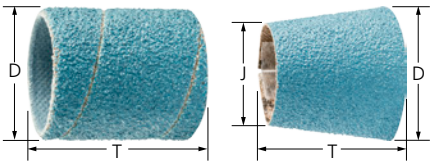
Abrasive spiral bands
Bulk pack GSB

PFERD TOOLS

D [mm]	J [mm]	T [mm]	Abrasive	Grit size	Opt. RPM		Item no.	Designation
100	-	40	A	80	4,000 – 5,700	50	42213108	GSB 10040 A 80
				150	4,000 – 5,700	50	42213115	GSB 10040 A 150
Conical shape								
20	14	63	A	40	19,000 – 26,000	100	42214104	GSB 201463 A 40
				60	19,000 – 26,000	100	42214105	GSB 201463 A 60
				80	19,000 – 26,000	100	42214108	GSB 201463 A 80
				150	19,000 – 26,000	100	42214115	GSB 201463 A 150
				240	19,000 – 26,000	100	42214124	GSB 201463 A 240
29	22	30	A	40	13,000 – 19,100	100	42215104	GSB 292230 A 40
				60	13,000 – 19,100	100	42215105	GSB 292230 A 60
				80	13,000 – 19,100	100	42215108	GSB 292230 A 80
				150	13,000 – 19,100	100	42215115	GSB 292230 A 150
36	22	60	A	40	10,000 – 15,900	100	42216104	GSB 362260 A 40
				60	10,000 – 15,900	100	42216105	GSB 362260 A 60
				80	10,000 – 15,900	100	42216108	GSB 362260 A 80
				150	10,000 – 15,900	100	42216115	GSB 362260 A 150



Zirconia alumina Z version

For coarse grinding work with a high stock removal rate and a long tool life. The packaging size is ideally suited to industrial requirements.

Special features:

- The abrasive spiral band is firmly held in place on the rubber drum holder as the holder expands during use. The rubber drum holder must be ordered separately.
- Outstanding tool life due to special manufacturing process – even under the most demanding operating conditions.
- Maximum economic efficiency thanks to particularly high stock removal rate and aggressive abrasive quality.

D [mm]	J [mm]	T [mm]	Abrasive	Grit size	Opt. RPM		Item no.	Designation
Cylindrical shape								
13	-	25	Z	50	30,000 – 44,000	100	42217063	GSB 1325 Z 50
				60	30,000 – 44,000	100	42217064	GSB 1325 Z 60
				80	30,000 – 44,000	100	42217065	GSB 1325 Z 80
				120	30,000 – 44,000	100	42217066	GSB 1325 Z 120
19	-	25	Z	40	20,000 – 30,000	100	42217092	GSB 1925 Z 40
				50	20,000 – 30,000	100	42217093	GSB 1925 Z 50
				60	20,000 – 30,000	100	42217094	GSB 1925 Z 60
				80	20,000 – 30,000	100	42217095	GSB 1925 Z 80
				120	20,000 – 30,000	100	42217096	GSB 1925 Z 120
25	-	25	Z	36	16,000 – 22,900	100	42217111	GSB 2525 Z 36
				40	16,000 – 22,900	100	42217112	GSB 2525 Z 40
				50	16,000 – 22,900	100	42217113	GSB 2525 Z 50
				60	16,000 – 22,900	100	42217114	GSB 2525 Z 60
				80	16,000 – 22,900	100	42217115	GSB 2525 Z 80
				120	16,000 – 22,900	100	42217116	GSB 2525 Z 120
30	-	30	Z	36	13,000 – 19,100	100	42217131	GSB 3030 Z 36
				40	13,000 – 19,100	100	42217132	GSB 3030 Z 40
				50	13,000 – 19,100	100	42217133	GSB 3030 Z 50
				60	13,000 – 19,100	100	42217134	GSB 3030 Z 60

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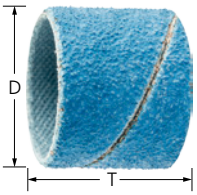
Abrasive spiral bands
Bulk pack GSB

D [mm]	J [mm]	T [mm]	Abrasive	Grit size	Opt. RPM		Item no.	Designation
30	-	30	Z	80	13,000 – 19,100	100	42217135	GSB 3030 Z 80
38	-	25	Z	36	10,000 – 15,900	100	42217141	GSB 3825 Z 36
				40	10,000 – 15,900	100	42217142	GSB 3825 Z 40
				50	10,000 – 15,900	100	42217143	GSB 3825 Z 50
				60	10,000 – 15,900	100	42217144	GSB 3825 Z 60
				80	10,000 – 15,900	100	42217145	GSB 3825 Z 80
				120	10,000 – 15,900	100	42217146	GSB 3825 Z 120
45	-	30	Z	40	8,500 – 12,700	100	42217152	GSB 4530 Z 40
				50	8,500 – 12,700	100	42217153	GSB 4530 Z 50
				60	8,500 – 12,700	100	42217154	GSB 4530 Z 60
				80	8,500 – 12,700	100	42217155	GSB 4530 Z 80
51	-	25	Z	36	7,500 – 11,200	100	42217161	GSB 5125 Z 36
				40	7,500 – 11,200	100	42217162	GSB 5125 Z 40
				50	7,500 – 11,200	100	42217163	GSB 5125 Z 50
				60	7,500 – 11,200	100	42217164	GSB 5125 Z 60
				80	7,500 – 11,200	100	42217165	GSB 5125 Z 80
				120	7,500 – 11,200	100	42217166	GSB 5125 Z 120
Conical shape								
20	14	63	Z	36	19,000 – 26,000	100	42217167	GSB 201463 Z 36
				50	19,000 – 26,000	100	42217168	GSB 201463 Z 50
				60	19,000 – 26,000	100	42217169	GSB 201463 Z 60
				80	19,000 – 26,000	100	42217170	GSB 201463 Z 80
				120	19,000 – 26,000	100	42217171	GSB 201463 Z 120
29	22	30	Z	36	13,000 – 19,100	100	42217172	GSB 292230 Z 36
				50	13,000 – 19,100	100	42217173	GSB 292230 Z 50
				60	13,000 – 19,100	100	42217174	GSB 292230 Z 60
				80	13,000 – 19,100	100	*42217175*	GSB 292230 Z 80
				120	13,000 – 19,100	100	42217176	GSB 292230 Z 120
36	22	60	Z	36	10,000 – 15,900	100	42217177	GSB 362260 Z 36
				50	10,000 – 15,900	100	*42217178*	GSB 362260 Z 50
				60	10,000 – 15,900	100	42217179	GSB 362260 Z 60
				80	10,000 – 15,900	100	*42217180*	GSB 362260 Z 80
				120	10,000 – 15,900	100	42217181	GSB 362260 Z120

Discontinued product

Abrasive spiral bands
Bulk pack GSB



Z-COOL / A-COOL zirconia alumina version

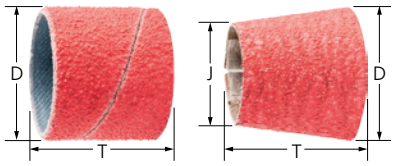
For coarse grinding work with a high stock removal rate and cool grinding. Active grinding additives in the coating substantially improve the stock removal rate, prevent clogging and result in cooler grinding. The packaging size is ideally suited to industrial requirements.

Special features:

- The abrasive spiral band is firmly held in place on the rubber drum holder as the holder expands during use. The rubber drum holder must be ordered separately.
- Outstanding tool life due to special manufacturing process – even under the most demanding operating conditions.
- Maximum economic efficiency thanks to particularly high stock removal rate and aggressive abrasive quality.

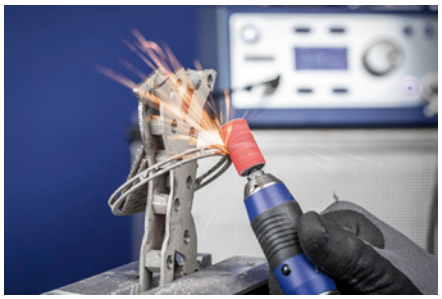
D [mm]	T [mm]	Abrasive	Grit size	Opt. RPM		Item no.	Designation
Cylindrical shape							
15	30	Z-COOL	50	26,000 – 36,000	100	42206183	GSB 1530 Z-COOL 50
			80	26,000 – 36,000	100	42206188	GSB 1530 Z-COOL 80
		Z-COOL / A-COOL	150	26,000 – 36,000	100	42206285	GSB 1530 A-COOL 150
22	20	Z-COOL	50	18,000 – 26,000	100	42207184	GSB 2220 Z-COOL 50
			80	18,000 – 26,000	100	42207188	GSB 2220 Z-COOL 80
		Z-COOL / A-COOL	150	18,000 – 26,000	100	42207285	GSB 2220 A-COOL 150
30	30	Z-COOL	36	13,000 – 19,100	100	42209182	GSB 3030 Z-COOL 36
			50	13,000 – 19,100	100	42209183	GSB 3030 Z-COOL 50
			80	13,000 – 19,100	100	42209188	GSB 3030 Z-COOL 80
		Z-COOL / A-COOL	150	13,000 – 19,100	100	42209285	GSB 3030 A-COOL 150
45	30	Z-COOL	36	8,500 – 12,700	100	42210182	GSB 4530 Z-COOL 36
			50	8,500 – 12,700	100	42210183	GSB 4530 Z-COOL 50
			80	8,500 – 12,700	100	42210188	GSB 4530 Z-COOL 80
		Z-COOL / A-COOL	150	8,500 – 12,700	100	42210285	GSB 4530 A-COOL 150
60	30	Z-COOL	36	6,500 – 9,500	100	42211182	GSB 6030 Z-COOL 36
			50	6,500 – 9,500	100	42211183	GSB 6030 Z-COOL 50
			80	6,500 – 9,500	100	42211188	GSB 6030 Z-COOL 80
		Z-COOL / A-COOL	150	6,500 – 9,500	100	42211285	GSB 6030 A-COOL 150

Abrasive spiral bands
Bulk pack GSB



Ceramic oxide grain CO-COOL version

Consistently high performance and aggressive grinding due to self-sharpening ceramic oxide grain. Active grinding additives improve the stock removal rate, prevent clogging and result in cooler grinding. The packaging size is ideally suited to industrial requirements.



Special features:

- The abrasive spiral band is firmly held in place on the rubber drum holder as the holder expands during use. The rubber drum holder must be ordered separately.
- Outstanding tool life due to special manufacturing process – even under the most demanding operating conditions.
- Maximum economic efficiency thanks to particularly high stock removal rate and aggressive abrasive quality.

D [mm]	J [mm]	T [mm]	Abrasive	Grit size	Opt. RPM		Item no.	Designation
Cylindrical shape								
10	-	20	CO-COOL	60	30,000 – 44,000	100	47501467	GSB 1020 CO-COOL 60
				80	30,000 – 44,000	100	47501485	GSB 1020 CO-COOL 80
				120	30,000 – 44,000	100	47501492	GSB 1020 CO-COOL120
13	-	25	CO-COOL	60	30,000 – 44,000	100	42204205	GSB 1325 CO-COOL 60
				80	30,000 – 44,000	100	42204208	GSB 1325 CO-COOL 80
				120	30,000 – 44,000	100	42204212	GSB 1325 CO-COOL 120
15	-	30	CO-COOL	60	26,000 – 36,000	100	42206305	GSB 1530 CO-COOL 60
				80	26,000 – 36,000	100	42206308	GSB 1530 CO-COOL 80
				120	26,000 – 36,000	100	42206312	GSB 1530 CO-COOL 120
19	-	25	CO-COOL	36	20,000 – 30,000	100	42206702	GSB 1925 CO-COOL 36
				60	20,000 – 30,000	100	42206705	GSB 1925 CO-COOL 60
				80	20,000 – 30,000	100	42206708	GSB 1925 CO-COOL 80
				120	20,000 – 30,000	100	42206712	GSB 1925 CO-COOL 120
22	-	20	CO-COOL	60	18,000 – 26,000	100	42207305	GSB 2220 CO-COOL 60
				80	18,000 – 26,000	100	42207308	GSB 2220 CO-COOL 80
				120	18,000 – 26,000	100	42207312	GSB 2220 CO-COOL 120
25	-	25	CO-COOL	36	16,000 – 22,900	100	42207702	GSB 2525 CO-COOL 36
				60	16,000 – 22,900	100	42207705	GSB 2525 CO-COOL 60
				80	16,000 – 22,900	100	42207708	GSB 2525 CO-COOL 80
				120	16,000 – 22,900	100	42207712	GSB 2525 CO-COOL 120
30	-	30	CO-COOL	36	13,000 – 19,100	100	42209302	GSB 3030 CO-COOL 36
				60	13,000 – 19,100	100	42209305	GSB 3030 CO-COOL 60
				80	13,000 – 19,100	100	42209308	GSB 3030 CO-COOL 80
				120	13,000 – 19,100	100	42209312	GSB 3030 CO-COOL 120
38	-	25	CO-COOL	36	10,000 – 15,900	100	42209702	GSB 3825 CO-COOL 36
				60	10,000 – 15,900	100	42209705	GSB 3825 CO-COOL 60
				80	10,000 – 15,900	100	42209708	GSB 3825 CO-COOL 80
45	-	30	CO-COOL	36	8,500 – 12,700	100	42210302	GSB 4530 CO-COOL 36
				60	8,500 – 12,700	100	42210305	GSB 4530 CO-COOL 60
				80	8,500 – 12,700	100	42210308	GSB 4530 CO-COOL 80
				120	8,500 – 12,700	100	42210312	GSB 4530 CO-COOL 120
51	-	25	CO-COOL	36	7,500 – 11,200	100	42210602	GSB 5125 CO-COOL 36
				60	7,500 – 11,200	100	42210605	GSB 5125 CO-COOL 60
60	-	30	CO-COOL	36	6,500 – 9,500	100	42211302	GSB 6030 CO-COOL 36
				60	6,500 – 9,500	100	42211305	GSB 6030 CO-COOL 60
				80	6,500 – 9,500	100	42211308	GSB 6030 CO-COOL 80
				120	6,500 – 9,500	100	42211312	GSB 6030 CO-COOL 120

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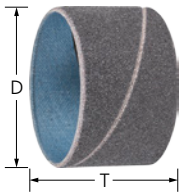
Abrasive spiral bands
Bulk pack GSB

PFERD TOOLS

D [mm]	J [mm]	T [mm]	Abrasive	Grit size	Opt. RPM		Item no.	Designation
Conical shape								
20	14	63	CO-COOL	36	19,000 – 26,000	100	42217182	GSB 201463 CO-COOL 36
				60	19,000 – 26,000	100	42217183	GSB 201463 CO-COOL 60
				80	19,000 – 26,000	100	42217184	GSB 201463 CO-COOL 80
				120	19,000 – 26,000	100	42217185	GSB 201463 CO-COOL 120
29	22	30	CO-COOL	36	13,000 – 19,100	100	42217186	GSB 292230 CO-COOL 36
				60	13,000 – 19,100	100	42217187	GSB 292230 CO-COOL 60
				80	13,000 – 19,100	100	42217188	GSB 292230 CO-COOL 80
				120	13,000 – 19,100	100	42217189	GSB 292230 CO-COOL 120
36	22	60	CO-COOL	36	10,000 – 15,900	100	42217190	GSB 362260 CO-COOL 36
				60	10,000 – 15,900	100	42217191	GSB 362260 CO-COOL 60
				80	10,000 – 15,900	100	42217192	GSB 362260 CO-COOL 80
				120	10,000 – 15,900	100	42217193	GSB 362260 CO-COOL 120



Silicon carbide SiC version

For general grinding work. Particularly recommended for use on titanium alloys. Ideally suited for use in the aircraft industry, particularly when SiC is the only abrasive approved for use. The packaging size is ideally suited to industrial requirements.

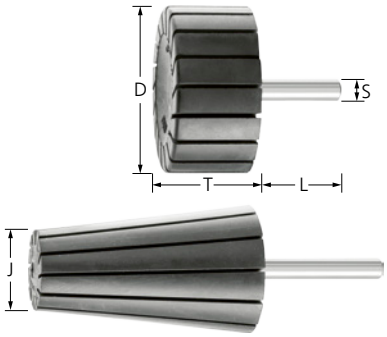
Special features:

- The abrasive spiral band is firmly held in place on the rubber drum holder as the holder expands during use. The rubber drum holder must be ordered separately.
- Outstanding tool life due to special manufacturing process – even under the most demanding operating conditions.
- Maximum economic efficiency thanks to particularly high stock removal rate and aggressive abrasive quality.

D [mm]	T [mm]	Abrasive	Grit size	Opt. RPM		Item no.	Designation
Cylindrical shape							
22	20	SiC	100	18,000 – 26,000	100	*42222100*	GSB 2220 SiC 100

Discontinued product

Abrasive spiral bands
Rubber drum holder GK



Conical and cylindrical types

Matching holder for conical and cylindrical abrasive spiral bands. Rubber drum holders marked "H" are the harder type and permit grinding at higher contact pressure. They are exceptionally well-suited to work on weld seams.

Special features:

- The abrasive spiral band is firmly held in place on the rubber drum holder as the holder expands during use.
- Outstanding tool life due to special manufacturing process – even under the most demanding operating conditions.

D [mm]	J [mm]	T [mm]	S [mm]	L [mm]	Hardness [Shore A]	Acc. to ISO	Max. RPM	Min. RPM [RPM]		Item no.	Designation
Cylindrical shape											
4	-	10	3	40	65–70	-	55,000	30,000	5	42100413	GK 0410/3
			6	40	65–70	-	55,000	30,000	5	42100410	GK 0410/6
6	-	10	3	40	65–70	-	55,000	30,000	5	42100613	GK 0610/3
			6	40	65–70	-	55,000	30,000	5	42100610	GK 0610/6
8	-	10	3	40	65–70	-	55,000	30,000	5	42100813	GK 0810/3
			6	40	65–70	-	55,000	30,000	5	42100810	GK 0810/6
10	-	10	6	35	65–70	ISO 15637-1	44,000	30,000	5	42101000	GK 1010/6
		20	6	35	65–70	ISO 15637-1	44,000	30,000	5	42102000	GK 1020/6
13	-	10	6	35	65–70	-	44,000	30,000	5	42103000	GK 1310/6
		25	6	35	65–70	-	44,000	30,000	5	42104000	GK 1325/6
15	-	10	6	35	65–70	ISO 15637-1	36,000	26,000	5	42105000	GK 1510/6
		30	6	35	65–70	ISO 15637-1	36,000	26,000	5	42106000	GK 1530/6
19	-	25	6	35	65–70	-	30,000	20,000	5	42106500	GK 1925/6
22	-	20	6	35	65–70	ISO 15637-1	26,000	18,000	5	42107000	GK 2220/6
					80	ISO 15637-1	26,000	18,000	5	42107080	GK 2220/6 H
25	-	25	6	35	65–70	-	22,900	16,000	5	42107500	GK 2525/6
30	-	20	6	35	65–70	ISO 15637-1	19,100	13,000	5	42108000	GK 3020/6
		30	6	35	65–70	ISO 15637-1	19,100	13,000	5	42109000	GK 3030/6
					80	ISO 15637-1	19,100	13,000	5	42109080	GK 3030/6 H
38	-	25	6	35	65–70	-	15,900	10,000	5	42109500	GK 3825/6
45	-	30	6	35	65–70	ISO 15637-1	12,700	8,500	5	42110000	GK 4530/6
					80	ISO 15637-1	12,700	8,500	5	42110080	GK 4530/6 H
51	-	25	6	35	65–70	-	11,200	7,500	5	42110500	GK 5125/6
60	-	30	6	35	65–70	ISO 15637-1	9,500	6,500	5	42111006	GK 6030/6
			8	35	65–70	ISO 15637-1	9,500	6,500	5	42111008	GK 6030/8
75	-	30	8	35	65–70	ISO 15637-1	7,600	5,000	5	42112000	GK 7530/8
100	-	40	8	35	65–70	ISO 15637-1	5,700	4,000	5	42113000	GK 10040/8
Conical shape											
20	14	63	6	40	65–70	-	26,000	19,000	5	42119500	GK 201463/6
29	22	30	6	40	65–70	-	19,100	13,000	5	42121000	GK 292230/6
36	22	60	6	40	65–70	-	15,900	10,000	5	42122000	GK 362260/6

Safety notes

- The maximum permitted peripheral speed is 11 m/s.
- For safety reasons, the maximum permitted rotational speed indicated must never be exceeded.

Wear eye protection!

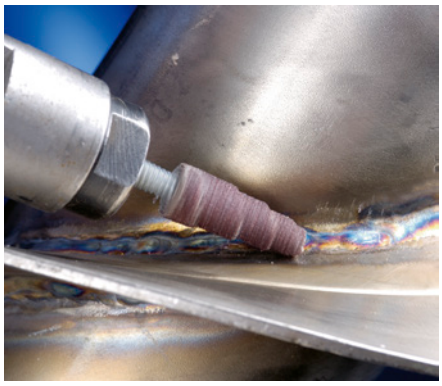
Wear hearing protection!

Wear gloves!

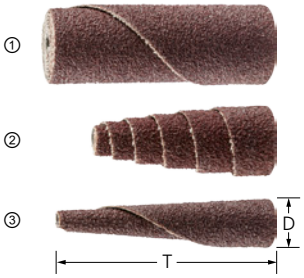
Wear a dust mask!

Follow the safety instructions!

Not permitted for wet grinding!



POLIROLL cartridge rolls PR and PRK, POLICO abrasive cones PCO



Aluminium oxide A version

Cartridge rolls and abrasive cones consisting of spirally wound, coated abrasives. For general grinding work in hard-to-reach areas on metals and other materials.

Special features:

- Consistently high grinding performance throughout its entire tool life thanks to ongoing exposure of fresh abrasive grain during application.
- POLIROLL/POLICO is securely fitted when in use due to self-tensioning provided by grooved, conical arbor, plus easy tool changes.
- Please order compatible arbor separately.

D [mm]	T [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM	Suitable arbors		Item no.	Designation
① Cylindrical shape (PR)									
6	25	A	80	20,000	25,000	BO 3-18-3, BO 6-18-3	50	42810608	PR 0625 A 80
			150	20,000	25,000	BO 3-18-3, BO 6-18-3	50	42810615	PR 0625 A 150
	35	A	80	20,000	25,000	BO 6-24-3	50	42810708	PR 0635 A 80
			150	20,000	25,000	BO 6-24-3	50	42810715	PR 0635 A 150
9	25	A	80	15,000	23,000	BO 6-18-3	50	42810808	PR 0925 A 80
			150	15,000	23,000	BO 6-18-3	50	42810815	PR 0925 A 150
	35	A	80	15,000	23,000	BO 6-24-3	50	42810908	PR 0935 A 80
			150	15,000	23,000	BO 6-24-3	50	42810915	PR 0935 A 150
12	25	A	50	12,000	17,000	BO 6-18-3	50	42811205	PR 1225 A 50
			80	12,000	17,000	BO 6-18-3	50	42811208	PR 1225 A 80
			150	12,000	17,000	BO 6-18-3	50	42811215	PR 1225 A 150
	35	A	50	12,000	17,000	BO 6-24-3	50	42811305	PR 1235 A 50
			80	12,000	17,000	BO 6-24-3	50	42811308	PR 1235 A 80
			150	12,000	17,000	BO 6-24-3	50	42811315	PR 1235 A 150
18	35	A	50	8,000	12,000	BO 6-25-5	50	42811805	PR 1835 A 50
			80	8,000	12,000	BO 6-25-5	50	42811808	PR 1835 A 80
			150	8,000	12,000	BO 6-25-5	50	42811815	PR 1835 A 150
	50	A	50	8,000	12,000	BO 6-30-5	50	42811905	PR 1850 A 50
			80	8,000	12,000	BO 6-30-5	50	42811908	PR 1850 A 80
			150	8,000	12,000	BO 6-30-5	50	42811915	PR 1850 A 150

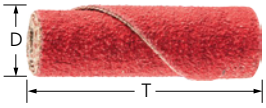
Continued on next page

POLIROLL, POLICO

POLIROLL cartridge rolls PR and PRK, POLICO abrasive cones PCO

PFERD TOOLS

D [mm]	T [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM	Suitable arbors		Item no.	Designation
② Conical shape (PRK)									
10	25	A	80	15,000	23,000	BO 3-18-3, BO 6-18-3	50	42821008	PRK 1025 A 80
			150	15,000	23,000	BO 3-18-3, BO 6-18-3	50	42821015	PRK 1025 A 150
12	25	A	50	12,000	17,000	BO 6-18-3	50	42821205	PRK 1225 A 50
			80	12,000	17,000	BO 6-18-3	50	42821208	PRK 1225 A 80
			150	12,000	17,000	BO 6-18-3	50	42821215	PRK 1225 A 150
	35	A	50	12,000	17,000	BO 6-24-3	50	42821305	PRK 1235 A 50
			80	12,000	17,000	BO 6-24-3	50	42821308	PRK 1235 A 80
			150	12,000	17,000	BO 6-24-3	50	42821315	PRK 1235 A 150
15	35	A	50	10,000	15,000	BO 6-24-3	50	42821505	PRK 1535 A 50
			80	10,000	15,000	BO 6-24-3	50	42821508	PRK 1535 A 80
			150	10,000	15,000	BO 6-24-3	50	42821515	PRK 1535 A 150
③ POLICO abrasive cones (PCO)									
10	50	A	80	15,000	23,000	BO 6-50-8	50	42831008	PCO 1050 A 80
			150	15,000	23,000	BO 6-50-8	50	42831015	PCO 1050 A 150



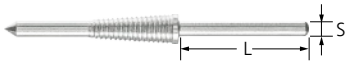
Ceramic oxide grain CO-COOL version

Cartridge rolls consisting of spirally wound, coated abrasives. Consistently high performance and aggressive grinding due to self-sharpening ceramic oxide grain. Active grinding additives improve the stock removal rate, prevent clogging and result in cooler grinding.

Special features:

- Consistently high grinding performance throughout its entire tool life thanks to ongoing exposure of fresh abrasive grain during application.
- POLIROLL/POLICO is securely fitted when in use due to self-tensioning provided by grooved, conical arbor, plus easy tool changes.
- Please order compatible arbor separately.

D [mm]	T [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM	Suitable arbors		Item no.	Designation
Cylindrical shape (PR)									
6	25	CO-COOL	60	20,000	25,000	BO 3-18-3, BO 6-18-3	50	42810646	PR 0625 CO-COOL 60
			80	20,000	25,000	BO 3-18-3, BO 6-18-3	50	42810648	PR 0625 CO-COOL 80
			120	20,000	25,000	BO 3-18-3, BO 6-18-3	50	42810650	PR 0625 CO-COOL 120
	35	CO-COOL	60	20,000	25,000	BO 6-24-3	50	42810746	PR 0635 CO-COOL 60
			80	20,000	25,000	BO 6-24-3	50	42810748	PR 0635 CO-COOL 80
			120	20,000	25,000	BO 6-24-3	50	42810750	PR 0635 CO-COOL 120
9	25	CO-COOL	60	15,000	23,000	BO 6-18-3	50	42810846	PR 0925 CO-COOL 60
			80	15,000	23,000	BO 6-18-3	50	42810848	PR 0925 CO-COOL 80
			120	15,000	23,000	BO 6-18-3	50	42810850	PR 0925 CO-COOL 120
	35	CO-COOL	60	15,000	23,000	BO 6-24-3	50	42810946	PR 0935 CO-COOL 60
			80	15,000	23,000	BO 6-24-3	50	42810948	PR 0935 CO-COOL 80
			120	15,000	23,000	BO 6-24-3	50	42810950	PR 0935 CO-COOL 120
12	25	CO-COOL	60	12,000	17,000	BO 6-18-3	50	42811246	PR 1225 CO-COOL 60
			80	12,000	17,000	BO 6-18-3	50	42811248	PR 1225 CO-COOL 80
			120	12,000	17,000	BO 6-18-3	50	42811250	PR 1225 CO-COOL 120
	35	CO-COOL	60	12,000	17,000	BO 6-24-3	50	42811346	PR 1235 CO-COOL 60
			80	12,000	17,000	BO 6-24-3	50	42811348	PR 1235 CO-COOL 80
			120	12,000	17,000	BO 6-24-3	50	42811350	PR 1235 CO-COOL 120



Arbor BO

Arbor for POLIROLL and POLICO tools.

Special features:
- Tool can be changed easily without unclamping the arbor from the tool drive collet.
- POLIROLL/POLICO is securely fitted when in use due to self-tensioning provided by grooved, conical arbor.

Suitable for	S [mm]	L [mm]		Item no.	Designation
PR 0625, PRK 1025	3	27	1	42703183	BO 3-18-3
PR 0625, PR 0925, PR 1225, PRK 1025, PRK 1225	6	30	1	42706183	BO 6-18-3
PR 0625, PR 0925, PR 1235, PRK 1235, PRK 1535	6	30	1	42706243	BO 6-24-3
PR 1835	6	30	1	42706255	BO 6-25-5
PR 1850	6	30	1	42706305	BO 6-30-5
PCO 1050	6	30	1	42706508	BO 6-50-8

POLIROLL set

Coordinated set of various popular POLIROLL cartridge rolls with matching arbors.

Contents:
150 POLIROLL cartridge rolls with matching arbor, 20 pieces each of cylindrical POLIROLL cartridge rolls measuring 6 x 25 mm (in grit size 80 as well as 150), 20 pieces each of 9 x 25 mm (in grit size 80 as well as 150), 20 pieces each of 12 x 25 mm (in grit size 80 as well as 150), 10 pieces each of conical cartridge rolls measuring 10 x 25 mm (grit size 80 as well as 150) and 10 pieces each of 12 x 25 mm (grit size 80).

Special features:
- Consistently high grinding performance throughout its entire tool life thanks to ongoing exposure of fresh abrasive grain during application.
- POLIROLL/POLICO is securely fitted when in use due to self-tensioning provided by grooved, conical arbor, plus easy tool changes.

Length [mm]	Width [mm]	Height [mm]		Item no.	Designation
180	145	40	1	49500151	PRS 151

POLICAP
General information

PFERD TOOLS

The quick way to find the perfect tool

Material group ▾			Abrasive ▸ Aluminium oxide A	Ceramic oxide grain CO-COOL	Silicon carbide SiC-COOL
Steel, cast steel	Non-hardened, non-heat-treated steels	Construction steels, carbon steels, tool steels, non-alloyed steels, cast steel	●	○	
	Hardened, heat-treated steels	Tool steels, tempering steels, alloyed steels, cast steel	○	●	
Stainless steel (INOX)	Rust and acid-resistant steels	Austenitic and ferritic stainless steels		●	
Non-ferrous metals	Soft non-ferrous metals, non-ferrous metals	Soft aluminium alloys	○	○	●
		Brass, copper, zinc	●		
	Hard non-ferrous metals	Hard aluminium alloys	○		●
		Bronze, titanium		○	●
	Hochwarmfeste Werkstoffe	Nickel-based and cobalt-based alloys		●	
Cast iron	Grey cast iron, white cast iron	Cast iron with flake graphite EN-GJL (GG), with nodular graphite/nodular cast iron EN-GJS (GGG), white annealed cast iron EN-GJMW (GTW), black annealed cast iron EN-GJMB (GTS)	●	○	
Plastics, other materials		Fibre-reinforced plastics, thermoplastics, wood, chipboard, paint	○		●

● = highly suitable ○ = suitable

Colour code

POLICAP abrasive caps are available in different types and with different grains.
- Silicon carbide (SiC-COOL) grey
- Ceramic oxide grain (CO-COOL) red
- Colour code for the grit sizes for aluminium oxide A:
  60/80 brown
  150 black
  280 red-brown

Safety notes

- The maximum permitted peripheral speed is 25 m/s.
- For safety reasons, the maximum permitted rotational speed indicated must never be exceeded.

Wear eye protection!

Wear hearing protection!

Wear gloves!

Wear a dust mask!

Follow the safety instructions!

POLICAP
POLICAP (PC), shape ZYA

A 60/80 A 150 A 280

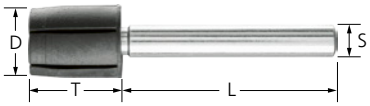
Abrasive caps PC ZYA

POLICAP abrasive caps in cylindrical shape ZYA with aluminium oxide A as the abrasive. They have a seamless design and the entire tool surface can be used.

Special features:
- The abrasive caps are firmly held in place on the holder as the holder expands during use, plus easy tool changes.
- Good dimensional stability and excellent fine grinding thanks to special manufacturing process.
- Optimally matched, reusable holders are available. The holder must be ordered separately.

D [mm]	T [mm]	Abrasive	Grit size	Opt. RPM		Item no.	Designation
5	10	A	80	40,000	50	42301051	PC ZYA 0510 A 80
			150	40,000	50	42301052	PC ZYA 0510 A 150
			280	40,000	50	42301053	PC ZYA 0510 A 280
7	12	A	60	30,000	50	42301071	PC ZYA 0712 A 60
			150	30,000	50	42301072	PC ZYA 0712 A 150
			280	30,000	50	42301073	PC ZYA 0712 A 280
10	15	A	60	20,000	50	42301101	PC ZYA 1015 A 60
			150	20,000	50	42301102	PC ZYA 1015 A 150
			280	20,000	50	42301103	PC ZYA 1015 A 280
13	17	A	60	16,000	50	42301131	PC ZYA 1317 A 60
			150	16,000	50	42301132	PC ZYA 1317 A 150
			280	16,000	50	42301133	PC ZYA 1317 A 280
16	26	A	60	12,000	50	42301161	PC ZYA 1626 A 60
			150	12,000	50	42301162	PC ZYA 1626 A 150
			280	12,000	50	42301163	PC ZYA 1626 A 280

POLICAP abrasive cap holder (PCT), shape ZYA



Abrasive cap holders PCT ZYA

Matching POLICAP abrasive cap holder in cylindrical shape ZYA.

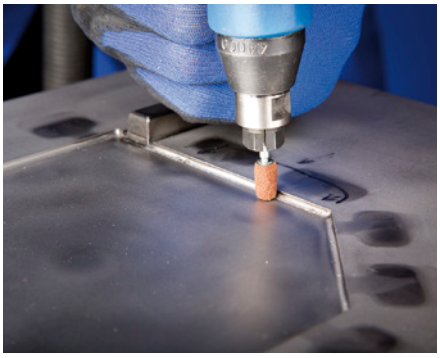
Special features:
- The abrasive caps are firmly held in place on the holder as the holder expands during use.
- Easy tool change.

D [mm]	T [mm]	S [mm]	L [mm]	Max. RPM		Item no.	Designation
5	10	3	25	95,000	5	42150000	PCT ZYA 0510 A/3
7	12	3	25	65,000	5	42150005	PCT ZYA 0712 A/3
10	15	3	25	45,000	5	42150010	PCT ZYA 1015 A/3
13	17	6	40	35,000	5	42151015	PCT ZYA 1317 A/6
16	26	6	40	30,000	5	42151020	PCT ZYA 1626 A/6

POLICAP
POLICAP set (PCS), shape ZYA

Set PCS ZYA

Set of various POLICAP abrasive caps with matching holder in cylindrical shape ZYA in sturdy, reusable packaging.



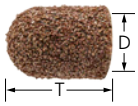
Contents:
Five each of the following cylindrical POLICAP abrasive caps in the following dimensions:

10 x 15 mm, 13 x 17 mm and 16 x 26 mm (grit sizes 60, 150, 280), ten pieces each of 5 x 10 mm and 7 x 12 mm (grit sizes 60 / 80 and 150, 280) and one each of the following POLICAP abrasive cap holders in cylindrical shape: 5 x 10 mm, 7 x 12 mm, 10 x 15 mm (each with shank dia. 3 mm), 13 x 17 mm and 16 x 26 mm (each with shank dia. 6 mm).

Special features:
- The abrasive caps are firmly held in place on the holder as the holder expands during use.
- Good dimensional stability and excellent fine grinding thanks to special manufacturing process.
- Easy tool change.

Length [mm]	Width [mm]	Height [mm]		Item no.	Designation
180	145	40	1	49601101	PCS ZYA 110

POLICAP (PC), shape WRC



A 60/80

A 150

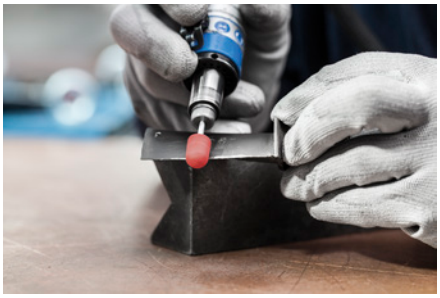
A 280

SiC-COOL

CO-COOL

Abrasive caps PC WRC

POLICAP abrasive caps in cylindrical shape with radius end WRC. Available in aluminium oxide A, silicon carbide SiC-COOL and ceramic oxide grain CO-COOL. They have a seamless design and the entire tool surface can be used.



Special features:
- The abrasive caps are firmly held in place on the holder as the holder expands during use, plus easy tool changes.
- Good dimensional stability and excellent fine grinding thanks to special manufacturing process.
- Optimally matched, reusable holders are available. The holder must be ordered separately.

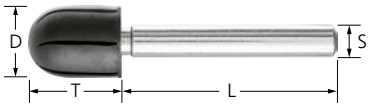
D [mm]	T [mm]	Abrasive	Grit size	Opt. RPM		Item no.	Designation
Aluminium oxide A							
5	11	A	80	40,000	50	42302051	PC WRC 0511 A 80
			150	40,000	50	42302052	PC WRC 0511 A 150
			280	40,000	50	42302053	PC WRC 0511 A 280
7	13	A	60	30,000	50	42302071	PC WRC 0713 A 60
			150	30,000	50	42302072	PC WRC 0713 A 150
			280	30,000	50	42302073	PC WRC 0713 A 280
10	15	A	60	20,000	50	42302101	PC WRC 1015 A 60
			150	20,000	50	42302102	PC WRC 1015 A 150
			280	20,000	50	42302103	PC WRC 1015 A 280
13	17	A	60	16,000	50	42302131	PC WRC 1317 A 60
			150	16,000	50	42302132	PC WRC 1317 A 150
			280	16,000	50	42302133	PC WRC 1317 A 280
16	26	A	60	12,000	50	42302161	PC WRC 1626 A 60

Continued on next page

POLICAP
POLICAP (PC), shape WRC

D [mm]	T [mm]	Abrasive	Grit size	Opt. RPM		Item no.	Designation
16	26	A	150	12,000	50	42302162	PC WRC 1626 A 150
			280	12,000	50	42302163	PC WRC 1626 A 280
Silicon carbide SiC-COOL							
5	11	SiC-COOL	80	40,000	50	42302054	PC WRC 0511 SiC-COOL 80
			150	40,000	50	42302055	PC WRC 0511 SiC-COOL 150
7	13	SiC-COOL	80	30,000	50	42302074	PC WRC 0713 SiC-COOL 80
			150	30,000	50	42302075	PC WRC 0713 SiC-COOL 150
10	15	SiC-COOL	80	20,000	50	42302104	PC WRC 1015 SiC-COOL 80
			150	20,000	50	42302105	PC WRC 1015 SiC-COOL 150
13	17	SiC-COOL	80	16,000	50	42302134	PC WRC 1317 SiC-COOL 80
			150	16,000	50	42302135	PC WRC 1317 SiC-COOL 150
16	26	SiC-COOL	80	12,000	50	42302164	PC WRC 1626 SiC-COOL 80
			150	12,000	50	42302165	PC WRC 1626 SiC-COOL 150
CO-COOL							
5	11	CO-COOL	80	40,000	50	42302056	PC WRC 0511 CO-COOL 80
			120	40,000	50	42302057	PC WRC 0511 CO-COOL 120
7	13	CO-COOL	80	30,000	50	42302076	PC WRC 0713 CO-COOL 80
			120	30,000	50	42302077	PC WRC 0713 CO-COOL 120
10	15	CO-COOL	80	20,000	50	42302106	PC WRC 1015 CO-COOL 80
			120	20,000	50	42302107	PC WRC 1015 CO-COOL 120
13	17	CO-COOL	80	16,000	50	42302136	PC WRC 1317 CO-COOL 80
			120	16,000	50	42302137	PC WRC 1317 CO-COOL 120
16	26	CO-COOL	80	12,000	50	42302166	PC WRC 1626 CO-COOL 80
			120	12,000	50	42302167	PC WRC 1626 CO-COOL 120

POLICAP abrasive cap holder (PCT), shape WRC



Abrasive cap holder PCT WRC

Matching POLICAP abrasive cap holder in cylindrical shape with radius end WRC.

Special features:
- The abrasive caps are firmly held in place on the holder as the holder expands during use.
- Easy tool change.

D [mm]	T [mm]	S [mm]	L [mm]	Max. RPM		Item no.	Designation
5	11	2.35	40	30,000	5	47601046	PCT WRC 0511/2,35
		3	25	95,000	5	42150100	PCT WRC 0511/3
7	13	2.35	40	24,500	5	47601047	PCT WRC 0713/2,35
		3	25	65,000	5	42150105	PCT WRC 0713/3
10	15	2.35	40	17,500	5	47601048	PCT WRC 1015/2,35
		3	25	45,000	5	42150110	PCT WRC 1015/3
13	17	2.35	40	13,750	5	47601049	PCT WRC 1317/2,35
		6	40	35,000	5	42151115	PCT WRC 1317/6
16	26	6	40	30,000	5	42151120	PCT WRC 1626/6

POLICAP
POLICAP set (PCS), shape WRC

Set PCS WRC

Set of various POLICAP abrasive caps with matching holder in cylindrical shape with radius end WRC in sturdy, reusable packaging.

Contents:
Five each of the following POLICAP abrasive caps in cylindrical shape with radius end in the following dimensions: 10 x 15 mm, 13 x 17 mm and 16 x 26 mm (grit sizes 60, 150, 280), ten pieces each of 5 x 11 mm and 7 x 13 mm (grit sizes 60 / 80 and 150, 280) and one each of the following POLICAP abrasive cap holders in cylindrical shape with radius end: 5 x 11 mm, 7 x 13 mm, 10 x 15 mm (each with shank dia. 3 mm), 13 x 17 mm and 16 x 26 mm (each with shank dia. 6 mm).

Special features:
- The abrasive caps are firmly held in place on the holder as the holder expands during use.
- Good dimensional stability and excellent fine grinding thanks to special manufacturing process.
- Easy tool change.

Length [mm]	Width [mm]	Height [mm]		Item no.	Designation
180	145	40	1	49601103	PCS WRC 110

POLICAP (PC), shape WKG

A 60/80 A 150 A 280

Abrasive caps PC WKG

POLICAP abrasive caps in tapered conical shape with radius end WKG with aluminium oxide A as the abrasive. The taper angle of the cone is 30°. They have a seamless design and the entire tool surface can be used. Optimally matched, reusable holders are available.

Special features:
- The abrasive caps are firmly held in place on the holder as the holder expands during use, plus easy tool changes.
- Good dimensional stability and excellent fine grinding thanks to special manufacturing process.
- Optimally matched, reusable holders are available. The holder must be ordered separately.

D [mm]	T [mm]	Abrasive	Grit size	Opt. RPM		Item no.	Designation
5	11	A	80	40,000	50	42303051	PC WKG 0511 A 80
			150	40,000	50	42303052	PC WKG 0511 A 150
			280	40,000	50	42303053	PC WKG 0511 A 280
7	13	A	60	30,000	50	42303071	PC WKG 0713 A 60
			150	30,000	50	42303072	PC WKG 0713 A 150
			280	30,000	50	42303073	PC WKG 0713 A 280
10	15	A	60	20,000	50	42303101	PC WKG 1015 A 60
			150	20,000	50	42303102	PC WKG 1015 A 150
			280	20,000	50	42303103	PC WKG 1015 A 280
13	17	A	60	16,000	50	42303131	PC WKG 1317 A 60
			150	16,000	50	42303132	PC WKG 1317 A 150
			280	16,000	50	42303133	PC WKG 1317 A 280
16	26	A	60	12,000	50	42303161	PC WKG 1626 A 60
			150	12,000	50	42303162	PC WKG 1626 A 150
			280	12,000	50	42303163	PC WKG 1626 A 280

POLICAP
POLICAP abrasive cap holder (PCT), shape WKG

Abrasive cap holders PCT WKG

Matching POLICAP abrasive cap holder in tapered conical shape with radius end WKG.

Special features:
- The abrasive caps are firmly held in place on the holder as the holder expands during use.
- Easy tool change.

D [mm]	T [mm]	S [mm]	L [mm]	Max. RPM		Item no.	Designation
5	11	3	25	95,000	5	42150200	PCT WKG 0511 G/3
7	13	3	25	65,000	5	42150205	PCT WKG 0713 G/3
10	15	3	25	45,000	5	42150210	PCT WKG 1015 G/3
13	17	2.35	40	13,750	5	47601022	PCT WKG 1317 G/2,35
		6	40	35,000	5	42151215	PCT WKG 1317 G/6
16	26	6	40	30,000	5	42151220	PCT WKG 1626 G/6

POLICAP set (PCS), shape WKG

Set PCS WKG

Set of various POLICAP abrasive caps with matching holder in tapered conical shape with radius end WKG in sturdy, reusable packaging.

Contents:
Five each of the following POLICAP abrasive caps in tapered conical shape with radius end in the following dimensions: 10 x 15 mm, 13 x 17 mm and 16 x 26 mm (grit sizes 60, 150, 280), ten pieces each of 5 x 11 mm and 7 x 13 mm (grit sizes 60 / 80 and 150, 280) and one each of the following POLICAP abrasive cap holders in tapered conical shape with radius end: 5 x 11 mm, 7 x 13 mm, 10 x 15 mm (each with shank dia. 3 mm), 13 x 17 mm and 16 x 26 mm (each with shank dia. 6 mm).

Special features:
- The abrasive caps are firmly held in place on the holder as the holder expands during use.
- Good dimensional stability and excellent fine grinding thanks to special manufacturing process.
- Easy tool change.

Length [mm]	Width [mm]	Height [mm]		Item no.	Designation
180	145	40	1	49601107	PCS WKG 110

POLICAP
POLICAP (PC), shape KEL

A 60/80

A 150

A 280

SiC-COOL

CO-COOL

Abrasive caps PC KEL

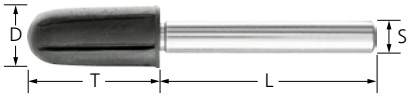
POLICAP abrasive caps in conical shape with radius end KEL. Available in aluminium oxide A, silicon carbide SiC-COOL and ceramic oxide grain CO-COOL. They have a seamless design and the entire tool surface can be used. Optimally matched, reusable holders are available.

Special features:

- The abrasive caps are firmly held in place on the holder as the holder expands during use, plus easy tool changes.
- Good dimensional stability and excellent fine grinding thanks to special manufacturing process.
- Optimally matched, reusable holders are available. The holder must be ordered separately.

D [mm]	T [mm]	Abrasive	Grit size	Opt. RPM		Item no.	Designation
Aluminium oxide A							
5	15	A	80	40,000	50	42306051	PC KEL 0515 A 80
			150	40,000	50	42306052	PC KEL 0515 A 150
			280	40,000	50	42306053	PC KEL 0515 A 280
11	25	A	60	20,000	50	42306111	PC KEL 1125 A 60
			150	20,000	50	42306112	PC KEL 1125 A 150
			280	20,000	50	42306113	PC KEL 1125 A 280
16	32	A	60	12,000	50	42306161	PC KEL 1632 A 60
			150	12,000	50	42306162	PC KEL 1632 A 150
			280	12,000	50	42306163	PC KEL 1632 A 280
21	40	A	60	9,500	50	42306211	PC KEL 2140 A 60
			150	9,500	50	42306212	PC KEL 2140 A 150
			280	9,500	50	42306213	PC KEL 2140 A 280
Silicon carbide SiC-COOL							
5	15	SiC-COOL	80	40,000	50	42306054	PC KEL 0515 SiC-COOL 80
			150	40,000	50	42306055	PC KEL 0515 SiC-COOL 150
11	25	SiC-COOL	80	20,000	50	42306114	PC KEL 1125 SiC-COOL 80
			150	20,000	50	42306115	PC KEL 1125 SiC-COOL 150
16	32	SiC-COOL	80	12,000	50	42306164	PC KEL 1632 SiC-COOL 80
			150	12,000	50	42306165	PC KEL 1632 SiC-COOL 150
21	40	SiC-COOL	80	9,500	50	42306214	PC KEL 2140 SiC-COOL 80
			150	9,500	50	42306215	PC KEL 2140 SiC-COOL 150
CO-COOL							
5	15	CO-COOL	80	40,000	50	42306056	PC KEL 0515 CO-COOL 80
			120	40,000	50	42306057	PC KEL 0515 CO-COOL 120
11	25	CO-COOL	80	20,000	50	42306116	PC KEL 1125 CO-COOL 80
			120	20,000	50	42306117	PC KEL 1125 CO-COOL 120
16	32	CO-COOL	80	12,000	50	42306166	PC KEL 1632 CO-COOL 80
			120	12,000	50	42306167	PC KEL 1632 CO-COOL 120
21	40	CO-COOL	80	9,500	50	42306216	PC KEL 2140 CO-COOL 80
			120	9,500	50	42306217	PC KEL 2140 CO-COOL 120

POLICAP
POLICAP abrasive cap holder (PCT), shape KEL



Abrasive cap holder PCT KEL

Abrasive cap holder for POLICAP in conical shape with radius end KEL.

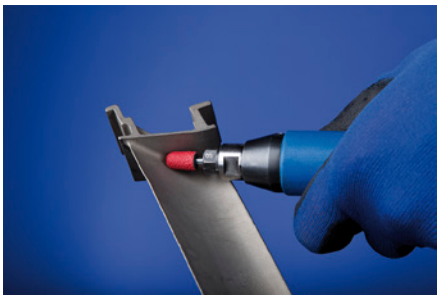
Special features:
- The abrasive caps and abrasive spiral bands are firmly held in place on the holder as the rubber surface offers optimal adhesion.
- Easy tool change.

D [mm]	T [mm]	S [mm]	L [mm]	Max. RPM		Item no.	Designation
5	15	6	40	95,000	5	42151400	PCT KEL 0515/6
11	25	6	40	40,000	5	42151410	PCT KEL 1125/6
16	32	6	40	30,000	5	42151420	PCT KEL 1632/6
21	40	6	40	20,000	5	42151430	PCT KEL 2140/6

POLICAP set (PCS)

SET PCS 650

Set of various POLICAP abrasive caps with matching holder in sturdy, reusable packaging.

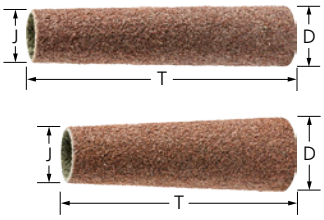


Contents:
Ten each of POLICAP abrasive caps in cylindrical shape in 16 x 26 mm and in tapered conical shape with radius end in 16 x 26 mm (grit sizes 150 and 280), 25 pieces each in cylindrical shape PC ZYA 10 x 15 mm, 13 x 17 mm and in tapered conical shape with radius end 10 x 15 mm and 13 x 17 mm (grit sizes 150 and 280), 50 pieces each in cylindrical shape 5 x 10 mm, 7 x 12 mm and in tapered conical shape with radius end 5 x 11 mm and 7 x 13 mm (grit sizes 150 and 280), one each of the following POLICAP abrasive cap holders in cylindrical shape: 5 x 10 mm, 7 x 12 mm, 10 x 15 mm (each with shank dia. 3 mm), 13 x 17 mm and 16 x 26 mm (each with shank dia. 6 mm) and in tapered conical shape with radius end: 5 x 11 mm, 7 x 13 mm, 10 x 15 mm (each with shank dia. 3 mm), 13 x 17 mm and 16 x 26 mm (each with shank dia. 6 mm).

Special features:
- The abrasive caps are firmly held in place on the holder as the holder expands during use.
- Good dimensional stability and excellent fine grinding thanks to special manufacturing process.
- Easy tool change.

Length [mm]	Width [mm]	Height [mm]		Item no.	Designation
332	235	50	1	49606500	SET PCS 650

POLICAP
POLICAP abrasive spiral bands (PCH), conical shape



Abrasive spiral bands PCH

POLICAP abrasive spiral bands in conical shape with aluminium oxide A. They have a seamless design and the entire tool surface can be used. Optimally matched, reusable holders are available.

Special features:
- The abrasive caps are firmly held in place on the holder as the holder expands during use, plus easy tool changes.
- Good dimensional stability and excellent fine grinding thanks to special manufacturing process.
- Optimally matched, reusable holders are available. The holder must be ordered separately.

D [mm]	J [mm]	T [mm]	Abrasive	Grit size	Opt. RPM		Item no.	Designation
7	5	85	A	60	12,000	10	42330052	PCH 070585 L A 60
				150	12,000	10	42330054	PCH 070585 L A 150
				280	12,000	10	42330056	PCH 070585 L A 280
14	11	85	A	60	12,000	10	42330112	PCH 141185 L A 60
				150	12,000	10	42330114	PCH 141185 L A 150
20	15	65	A	60	18,500	10	42333012	PCH 201565 L A 60
				150	18,500	10	42333014	PCH 201565 L A 150
	16	85	A	60	12,000	10	42330162	PCH 201685 L A 60
				150	12,000	10	42330164	PCH 201685 L A 150
24	21	85	A	60	12,000	10	42330212	PCH 242185 L A 60
				150	12,000	10	42330214	PCH 242185 L A 150
36	22	65	A	60	13,000	10	42333212	PCH 362265 L A 60

POLICAP rubber drum holder (PCT), shape KEL

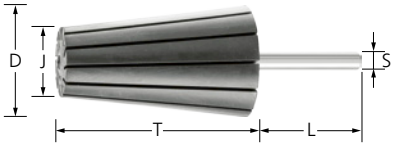
POLICAP rubber drum holder PCT

Matching POLICAP rubber drum holder in conical shape with radius end KEL.

Special features:
- The abrasive spiral bands are firmly held in place on the holder as the holder expands during use.

D [mm]	T [mm]	S [mm]	L [mm]	Max. RPM		Item no.	Designation
8	85	6	40	20,000	5	42152100	PCT KEL 0585/6
13	85	6	40	15,000	5	42152110	PCT KEL 1185/6
18	85	6	40	13,000	5	42152120	PCT KEL 1685/6
23	85	6	30	12,000	5	42152130	PCT KEL 2185/6

Rubber drum holder GK, conical shape



Rubber drum holder GK

Rubber drum holder for POLICAP in conical shape.

Special features:
- The abrasive spiral bands are firmly held in place on the holder as the holder expands during use.
- Easy tool change.

D [mm]	J [mm]	T [mm]	S [mm]	L [mm]	Hardness [Shore A]	Max. RPM	Min. RPM [RPM]		Item no.	Designation
20	14	63	6	40	65–70	26,000	19,000	5	42119500	GK 201463/6
36	22	60	6	40	65–70	15,900	10,000	5	42122000	GK 362260/6

The quick way to find the perfect tool

Material group ▾			Abrasive ▸ Aluminium oxide A	Zirconia alumina Z-COOL	Ceramic oxide grain CO-COOL	Silicon carbide SiC-COOL
Steel, cast steel	Non-hardened, non-heat-treated steels	Construction steels, carbon steels, tool steels, non-alloyed steels, cast steel	●	○	○	
	Hardened, heat-treated steels	Tool steels, tempering steels, alloyed steels, cast steel	○	●	●	
Stainless steel (INOX)	Rust and acid-resistant steels	Austenitic and ferritic stainless steels		●	●	
Non-ferrous metals	Soft non-ferrous metals, non-ferrous metals	Soft aluminium alloys	○			●
		Brass, copper, zinc	●	○	○	
	Hard non-ferrous metals	Hard aluminium alloys	○			●
		Bronze, titanium		○	○	●
	High-temperature-resistant materials	Nickel-based and cobalt-based alloys		○	●	
Cast iron	Grey cast iron, white cast iron	Cast iron with flake graphite EN-GJL (GG), with nodular graphite/nodular cast iron EN-GJS (GGG), white annealed cast iron EN-GJMW (GTW), black annealed cast iron EN-GJMB (GTS)	●	○	●	
Plastics, other materials		Fibre-reinforced plastics, thermoplastics, wood, chipboard, paint	○			●

● = highly suitable ○ = suitable

Mounted flap wheels F

Safety notes

- For safety reasons, the maximum permitted rotational speed indicated must never be exceeded.
- The contact pressure must be significantly reduced if the specified optimum rotational speed is exceeded.
- Safety can only be guaranteed if the clamping length is at least 15 mm and the specified maximum rotational speed is not exceeded with unsupported shank lengths.

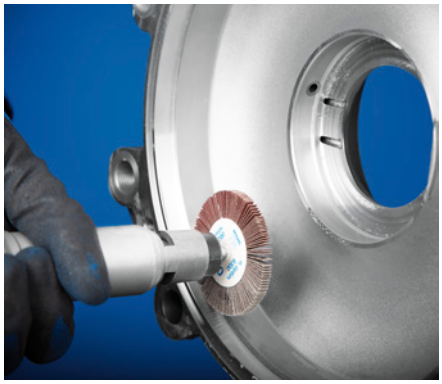
Wear eye protection!

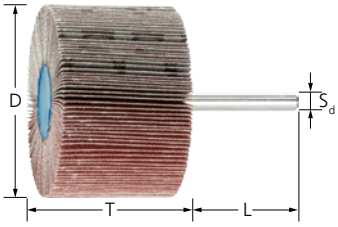
Wear hearing protection!

Wear gloves!

Wear a dust mask!

Follow the safety instructions!





Aluminium oxide A version

The flaps made of coated abrasive are arranged radially around the axis in a fan-type structure. For general applications from coarse to fine grinding.

Special features:
- Highly flexible, enabling optimal adjustment to the contour.
- Consistently high stock removal rate over the entire tool life as new, aggressive abrasive is constantly exposed.
- Can be used face-down very close to edges and in corners thanks to the flat, moulded-core design.

S_d [mm]	L [mm]	D [mm]	T [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
3	40	10	10	A	60	38,000	75,000	10	44400002	F 1010/3 A 60
					80	38,000	75,000	10	44400003	F 1010/3 A 80
					120	38,000	75,000	10	44400004	F 1010/3 A 120
					150	38,000	75,000	10	44400005	F 1010/3 A 150
					180	38,000	75,000	10	44400006	F 1010/3 A 180
					320	38,000	75,000	10	44400008	F 1010/3 A 320
			15	A	60	38,000	75,000	10	44400012	F 1015/3 A 60
					80	38,000	75,000	10	44400013	F 1015/3 A 80
					120	38,000	75,000	10	44400014	F 1015/3 A 120
					150	38,000	75,000	10	44400015	F 1015/3 A 150
					180	38,000	75,000	10	44400016	F 1015/3 A 180
					320	38,000	75,000	10	44400018	F 1015/3 A 320
		15	5	A	60	25,000	50,000	10	44400022	F 1505/3 A 60
					80	25,000	50,000	10	44400023	F 1505/3 A 80
					120	25,000	50,000	10	44400024	F 1505/3 A 120
					150	25,000	50,000	10	44400025	F 1505/3 A 150
					180	25,000	50,000	10	44400026	F 1505/3 A 180
					320	25,000	50,000	10	44400028	F 1505/3 A 320
			10	A	60	25,000	50,000	10	44400032	F 1510/3 A 60
					80	25,000	50,000	10	44400033	F 1510/3 A 80
					120	25,000	50,000	10	44400034	F 1510/3 A 120
					150	25,000	50,000	10	44400035	F 1510/3 A 150
					180	25,000	50,000	10	44400036	F 1510/3 A 180
					320	25,000	50,000	10	44400038	F 1510/3 A 320
			15	A	60	25,000	50,000	10	44400042	F 1515/3 A 60
					80	25,000	50,000	10	44400043	F 1515/3 A 80
					120	25,000	50,000	10	44400044	F 1515/3 A 120
					150	25,000	50,000	10	44400045	F 1515/3 A 150
					180	25,000	50,000	10	44400046	F 1515/3 A 180
					320	25,000	50,000	10	44400048	F 1515/3 A 320
		20	10	A	80	19,000	38,100	10	47801206	F 2010/3 A 80
					120	19,000	38,100	10	44400123	F 2010/3 A 120
					150	19,000	38,100	10	44400153	F 2010/3 A 150
					180	19,000	38,100	10	44400183	F 2010/3 A 180
					240	19,000	38,100	10	47801527	F 2010/3 A 240
					320	19,000	38,100	10	47801528	F 2010/3 A 320
		30	5	A	60	12,000	25,400	10	44401063	F 3005/3 A 60
					80	12,000	25,400	10	44401083	F 3005/3 A 80
					120	12,000	25,400	10	44401123	F 3005/3 A 120
					150	12,000	25,400	10	44401153	F 3005/3 A 150
					180	12,000	25,400	10	44401183	F 3005/3 A 180

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Flap tools
Mounted flap wheels F

PFERD TOOLS

S_d [mm]	L [mm]	D [mm]	T [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
3	40	30	5	A	240	12,000	25,400	10	44401243	F 3005/3 A 240
					320	12,000	25,400	10	44401323	F 3005/3 A 320
			10	A	60	12,000	25,400	10	44402063	F 3010/3 A 60
					80	12,000	25,400	10	44402083	F 3010/3 A 80
					120	12,000	25,400	10	44402123	F 3010/3 A 120
					150	12,000	25,400	10	44402153	F 3010/3 A 150
					180	12,000	25,400	10	44402183	F 3010/3 A 180
					240	12,000	25,400	10	44402243	F 3010/3 A 240
					320	12,000	25,400	10	44402323	F 3010/3 A 320
6	40	20	10	A	60	19,000	38,100	10	47801067	F 2010/6 A 60
					80	19,000	38,100	10	44400086	F 2010/6 A 80
					120	19,000	38,100	10	44400126	F 2010/6 A 120
					150	19,000	38,100	10	44400156	F 2010/6 A 150
					180	19,000	38,100	10	44400186	F 2010/6 A 180
		25	10	A	80	15,000	30,500	10	44405086	F 2510/6 A 80
					120	15,000	30,500	10	44405126	F 2510/6 A 120
					180	15,000	30,500	10	44405186	F 2510/6 A 180
			15	A	40	15,000	30,500	10	47801544	F 2515/6 A 40
					80	15,000	30,500	10	44406086	F 2515/6 A 80
					120	15,000	30,500	10	44406126	F 2515/6 A 120
					150	15,000	30,500	10	44406156	F 2515/6 A 150
					180	15,000	30,500	10	44406186	F 2515/6 A 180
			20	A	80	15,000	30,500	10	44415086	F 2520/6 A 80
					120	15,000	30,500	10	44415126	F 2520/6 A 120
					180	15,000	30,500	10	44415186	F 2520/6 A 180
			25	A	60	15,000	30,500	10	47801818	F 2525/6 A 60
					80	15,000	30,500	10	44410086	F 2525/6 A 80
					120	15,000	30,500	10	44410126	F 2525/6 A 120
					150	15,000	30,500	10	44410156	F 2525/6 A 150
					180	15,000	30,500	10	44410186	F 2525/6 A 180
		30	3	A	80	12,000	25,400	10	44416086	F 3003/6 A 80
					120	12,000	25,400	10	44416126	F 3003/6 A 120
					150	12,000	25,400	10	44416156	F 3003/6 A 150
					180	12,000	25,400	10	44416186	F 3003/6 A 180
					240	12,000	25,400	10	44416246	F 3003/6 A 240
					320	12,000	25,400	10	44416326	F 3003/6 A 320
			5	A	60	12,000	25,400	10	44401066	F 3005/6 A 60
					80	12,000	25,400	10	44401086	F 3005/6 A 80
					120	12,000	25,400	10	44401126	F 3005/6 A 120
					150	12,000	25,400	10	44401156	F 3005/6 A 150
					180	12,000	25,400	10	44401186	F 3005/6 A 180
					240	12,000	25,400	10	44401246	F 3005/6 A 240
					320	12,000	25,400	10	44401326	F 3005/6 A 320
			10	A	60	12,000	25,400	10	44402066	F 3010/6 A 60
					80	12,000	25,400	10	44402086	F 3010/6 A 80
					120	12,000	25,400	10	44402126	F 3010/6 A 120
					150	12,000	25,400	10	44402156	F 3010/6 A 150
					180	12,000	25,400	10	44402186	F 3010/6 A 180
					240	12,000	25,400	10	44402246	F 3010/6 A 240
					320	12,000	25,400	10	44402326	F 3010/6 A 320
					400	12,000	25,400	10	44402406	F 3010/6 A 400
			15	A	40	12,000	25,400	10	47801545	F 3015/6 A 40
					60	12,000	25,400	10	44409066	F 3015/6 A 60
					80	12,000	25,400	10	44409086	F 3015/6 A 80

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S_d [mm]	L [mm]	D [mm]	T [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
6	40	30	15	A	120	12,000	25,400	10	44409126	F 3015/6 A 120
					150	12,000	25,400	10	44409156	F 3015/6 A 150
					180	12,000	25,400	10	44409186	F 3015/6 A 180
					240	12,000	25,400	10	44409246	F 3015/6 A 240
					320	12,000	25,400	10	44409326	F 3015/6 A 320
			20	A	40	12,000	25,400	10	47802247	F 3020/6 A 40
					60	12,000	25,400	10	47802248	F 3020/6 A 60
					150	12,000	25,400	10	47802249	F 3020/6 A 150
					180	12,000	25,400	10	47802250	F 3020/6 A 180
					240	12,000	25,400	10	47802251	F 3020/6 A 240
					320	12,000	25,400	10	47802252	F 3020/6 A 320
			30	A	60	12,000	25,400	10	44411066	F 3030/6 A 60
					80	12,000	25,400	10	44411086	F 3030/6 A 80
					120	12,000	25,400	10	44411126	F 3030/6 A 120
					150	12,000	25,400	10	44411156	F 3030/6 A 150
					180	12,000	25,400	10	44411186	F 3030/6 A 180
					240	12,000	25,400	10	44411246	F 3030/6 A 240
					320	12,000	25,400	10	44411326	F 3030/6 A 320
		40	10	A	60	9,600	19,100	10	44403066	F 4010/6 A 60
					80	9,600	19,100	10	44403086	F 4010/6 A 80
					120	9,600	19,100	10	44403126	F 4010/6 A 120
					150	9,600	19,100	10	44403156	F 4010/6 A 150
					180	9,600	19,100	10	44403186	F 4010/6 A 180
					240	9,600	19,100	10	44403246	F 4010/6 A 240
			15	A	40	9,600	19,100	10	47801215	F 4015/6 A 40
					60	9,600	19,100	10	44404066	F 4015/6 A 60
					80	9,600	19,100	10	44404086	F 4015/6 A 80
					120	9,600	19,100	10	44404126	F 4015/6 A 120
					150	9,600	19,100	10	44404156	F 4015/6 A 150
					180	9,600	19,100	10	44404186	F 4015/6 A 180
					240	9,600	19,100	10	44404246	F 4015/6 A 240
					320	9,600	19,100	10	44404326	F 4015/6 A 320
			20	A	40	9,600	19,100	10	44408046	F 4020/6 A 40
					60	9,600	19,100	10	44408066	F 4020/6 A 60
					80	9,600	19,100	10	44408086	F 4020/6 A 80
					120	9,600	19,100	10	44408126	F 4020/6 A 120
					150	9,600	19,100	10	44408156	F 4020/6 A 150
					180	9,600	19,100	10	44408186	F 4020/6 A 180
					240	9,600	19,100	10	44408246	F 4020/6 A 240
		50	5	A	60	7,000	15,200	10	44418066	F 5005/6 A 60
					80	7,000	15,200	10	44418086	F 5005/6 A 80
					120	7,000	15,200	10	44418126	F 5005/6 A 120
					150	7,000	15,200	10	44418156	F 5005/6 A 150
					180	7,000	15,200	10	44418186	F 5005/6 A 180
					240	7,000	15,200	10	44418246	F 5005/6 A 240
					320	7,000	15,200	10	44418326	F 5005/6 A 320
			10	A	60	7,000	15,200	10	44505066	F 5010/6 A 60
					80	7,000	15,200	10	44505086	F 5010/6 A 80
					120	7,000	15,200	10	44505126	F 5010/6 A 120
					150	7,000	15,200	10	44505156	F 5010/6 A 150
					180	7,000	15,200	10	44505186	F 5010/6 A 180
					240	7,000	15,200	10	44505246	F 5010/6 A 240
					320	7,000	15,200	10	44505326	F 5010/6 A 320
			15	A	40	7,000	15,200	10	47801221	F 5015/6 A 40

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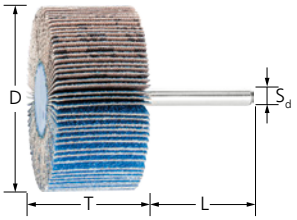
S_d [mm]	L [mm]	D [mm]	T [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
6	40	50	15	A	60	7,000	15,200	10	44506066	F 5015/6 A 60
					80	7,000	15,200	10	44506086	F 5015/6 A 80
					120	7,000	15,200	10	44506126	F 5015/6 A 120
					150	7,000	15,200	10	44506156	F 5015/6 A 150
					180	7,000	15,200	10	44506186	F 5015/6 A 180
					240	7,000	15,200	10	44506246	F 5015/6 A 240
					320	7,000	15,200	10	44506326	F 5015/6 A 320
			20	A	40	7,000	15,200	10	47801224	F 5020/6 A 40
					60	7,000	15,200	10	44504066	F 5020/6 A 60
					80	7,000	15,200	10	44504086	F 5020/6 A 80
					120	7,000	15,200	10	44504126	F 5020/6 A 120
					150	7,000	15,200	10	44504156	F 5020/6 A 150
					180	7,000	15,200	10	44504186	F 5020/6 A 180
					320	7,000	15,200	10	44504326	F 5020/6 A 320
			30	A	40	7,000	15,200	10	44411546	F 5030/6 A 40
					60	7,000	15,200	10	44503066	F 5030/6 A 60
					80	7,000	15,200	10	44503086	F 5030/6 A 80
					120	7,000	15,200	10	44503126	F 5030/6 A 120
					150	7,000	15,200	10	44503156	F 5030/6 A 150
					180	7,000	15,200	10	44503186	F 5030/6 A 180
					240	7,000	15,200	10	44503246	F 5030/6 A 240
					320	7,000	15,200	10	44503326	F 5030/6 A 320
		60	5	A	60	6,300	12,700	10	44419066	F 6005/6 A 60
					80	6,300	12,700	10	44419086	F 6005/6 A 80
					120	6,300	12,700	10	44419126	F 6005/6 A 120
					150	6,300	12,700	10	44419156	F 6005/6 A 150
					180	6,300	12,700	10	44419186	F 6005/6 A 180
			15	A	60	6,300	12,700	10	44507066	F 6015/6 A 60
					80	6,300	12,700	10	44507086	F 6015/6 A 80
					120	6,300	12,700	10	44507126	F 6015/6 A 120
					150	6,300	12,700	10	44507156	F 6015/6 A 150
					240	6,300	12,700	10	44507246	F 6015/6 A 240
					320	6,300	12,700	10	44507326	F 6015/6 A 320
			20	A	40	6,300	12,700	10	47801077	F 6020/6 A 40
					60	6,300	12,700	10	44508066	F 6020/6 A 60
					80	6,300	12,700	10	44508086	F 6020/6 A 80
					120	6,300	12,700	10	44508126	F 6020/6 A 120
					150	6,300	12,700	10	44508156	F 6020/6 A 150
					240	6,300	12,700	10	44508246	F 6020/6 A 240
					320	6,300	12,700	10	44508326	F 6020/6 A 320
			30	A	40	6,300	12,700	10	44509046	F 6030/6 A 40
					60	6,300	12,700	10	44509066	F 6030/6 A 60
					80	6,300	12,700	10	44509086	F 6030/6 A 80
					120	6,300	12,700	10	44509126	F 6030/6 A 120
					150	6,300	12,700	10	44509156	F 6030/6 A 150
					180	6,300	12,700	10	44509186	F 6030/6 A 180
					240	6,300	12,700	10	44509246	F 6030/6 A 240
					320	6,300	12,700	10	44509326	F 6030/6 A 320
					400	6,300	12,700	10	44509406	F 6030/6 A 400
			40	A	40	6,300	12,700	10	47801233	F 6040/6 A 40
					60	6,300	12,700	10	44510066	F 6040/6 A 60
					80	6,300	12,700	10	44510086	F 6040/6 A 80
					120	6,300	12,700	10	44510126	F 6040/6 A 120
					150	6,300	12,700	10	44510156	F 6040/6 A 150

Continued on next page

Flap tools
Mounted flap wheels F

PFERD TOOLS

S_d [mm]	L [mm]	D [mm]	T [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
6	40	60	40	A	240	6,300	12,700	10	44510246	F 6040/6 A 240
			50	A	40	6,300	12,700	10	44511046	F 6050/6 A 40
					60	6,300	12,700	10	44511066	F 6050/6 A 60
					80	6,300	12,700	10	44511086	F 6050/6 A 80
					120	6,300	12,700	10	44511126	F 6050/6 A 120
					150	6,300	12,700	10	44511156	F 6050/6 A 150
					240	6,300	12,700	10	44511246	F 6050/6 A 240
					320	6,300	12,700	10	44511326	F 6050/6 A 320
		80	5	A	60	4,800	9,500	10	47801807	F 8005/6 A 60
					80	4,800	9,500	10	47801514	F 8005/6 A 80
					120	4,800	9,500	10	47801624	F 8005/6 A 120
					150	4,800	9,500	10	47801562	F 8005/6 A 150
					180	4,800	9,500	10	47802769	F 8005/6 A 180
					240	4,800	9,500	10	44480240	F 8005/6 A 240
					320	4,800	9,500	10	44480320	F 8005/6 A 320
			10	A	60	4,800	9,500	10	47801575	F 8010/6 A 60
					80	4,800	9,500	10	47801110	F 8010/6 A 80
					120	4,800	9,500	10	47801576	F 8010/6 A 120
					150	4,800	9,500	10	47802867	F 8010/6 A 150
					180	4,800	9,500	10	47802868	F 8010/6 A 180
					240	4,800	9,500	10	47802869	F 8010/6 A 240
					320	4,800	9,500	10	47802857	F 8010/6 A 320
			15	A	40	4,800	9,500	10	47801548	F 8015/6 A 40
					60	4,800	9,500	10	44512066	F 8015/6 A 60
					80	4,800	9,500	10	44512086	F 8015/6 A 80
					120	4,800	9,500	10	44512126	F 8015/6 A 120
					150	4,800	9,500	10	44512156	F 8015/6 A 150
			20	A	40	4,800	9,500	10	44513046	F 8020/6 A 40
					60	4,800	9,500	10	44513066	F 8020/6 A 60
					80	4,800	9,500	10	44513086	F 8020/6 A 80
					120	4,800	9,500	10	44513126	F 8020/6 A 120
					150	4,800	9,500	10	44513156	F 8020/6 A 150
			30	A	40	4,800	9,500	10	44514046	F 8030/6 A 40
					60	4,800	9,500	10	44514066	F 8030/6 A 60
					80	4,800	9,500	10	44514086	F 8030/6 A 80
					120	4,800	9,500	10	44514126	F 8030/6 A 120
					150	4,800	9,500	10	44514156	F 8030/6 A 150
					240	4,800	9,500	10	44514246	F 8030/6 A 240
					320	4,800	9,500	10	44514326	F 8030/6 A 320
			40	A	60	4,800	9,500	10	44515066	F 8040/6 A 60
					80	4,800	9,500	10	44515086	F 8040/6 A 80
					120	4,800	9,500	10	44515126	F 8040/6 A 120
					150	4,800	9,500	10	44515156	F 8040/6 A 150
					240	4,800	9,500	10	44515246	F 8040/6 A 240
			50	A	40	4,800	9,500	10	44516046	F 8050/6 A 40
					60	4,800	9,500	10	44516066	F 8050/6 A 60
					80	4,800	9,500	10	44516086	F 8050/6 A 80
					120	4,800	9,500	10	44516126	F 8050/6 A 120
					150	4,800	9,500	10	44516156	F 8050/6 A 150
					240	4,800	9,500	10	44516246	F 8050/6 A 240
					320	4,800	9,500	10	44516326	F 8050/6 A 320

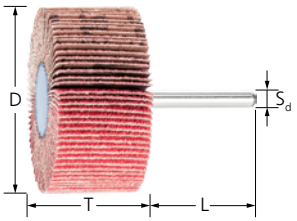


Zirconia alumina Z-COOL version

The flaps made of coated abrasive are arranged radially around the axis in a fan-type structure. For coarse grinding work with a high stock removal rate. Active grinding additives substantially improve the stock removal rate, prevent clogging and result in cooler grinding.

Special features:
- Highly flexible, enabling optimal adjustment to the contour.
- Consistently high stock removal rate over the entire tool life as new, aggressive abrasive is constantly exposed.
- Can be used face-down very close to edges and in corners thanks to the flat, moulded-core design.

S_d [mm]	L [mm]	D [mm]	T [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
6	40	30	20	Z-COOL	60	12,000	25,400	10	44412066	F 3020/6 Z-COOL 60
					80	12,000	25,400	10	44412086	F 3020/6 Z-COOL 80
		40	20	Z-COOL	60	9,600	19,100	10	44414066	F 4020/6 Z-COOL 60
					80	9,600	19,100	10	44414086	F 4020/6 Z-COOL 80
		50	20	Z-COOL	60	7,000	15,200	10	44531066	F 5020/6 Z-COOL 60
					80	7,000	15,200	10	44531086	F 5020/6 Z-COOL 80
		60	30	Z-COOL	60	6,300	12,700	10	44533066	F 6030/6 Z-COOL 60
					80	6,300	12,700	10	44533086	F 6030/6 Z-COOL 80
		80	50	Z-COOL	60	4,800	9,500	10	44535066	F 8050/6 Z-COOL 60
					80	4,800	9,500	10	44535086	F 8050/6 Z-COOL 80



Ceramic oxide grain CO-COOL version

The flaps made of coated abrasive are arranged radially around the axis in a fan-type structure. Consistently high performance and aggressive grinding due to self-sharpening ceramic oxide grain. Active grinding additives improve the stock removal rate, prevent clogging and result in cooler grinding.

Special features:
- Highly flexible, enabling optimal adjustment to the contour.
- Consistently high stock removal rate over the entire tool life as new, aggressive abrasive is constantly exposed.
- Can be used face-down very close to edges and in corners thanks to the flat, moulded-core design.

S_d [mm]	L [mm]	D [mm]	T [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
3	40	15	10	CO-COOL	120	25,000	50,000	10	44400069	F 1510/3 CO-COOL 120
					60	25,000	50,000	10	44400067	F 1510/3 CO-COOL 60
					80	25,000	50,000	10	44400068	F 1510/3 CO-COOL 80
			15	CO-COOL	120	25,000	50,000	10	44400072	F 1515/3 CO-COOL 120
					60	25,000	50,000	10	44400070	F 1515/3 CO-COOL 60
					80	25,000	50,000	10	44400071	F 1515/3 CO-COOL 80
6	40	20	10	CO-COOL	60	19,000	38,100	10	47802871	F 2010/6 CO-COOL 60
					80	19,000	38,100	10	47802716	F 2010/6 CO-COOL 80
					120	19,000	38,100	10	47802717	F 2010/6 CO-COOL 120
		30	10	CO-COOL	40	12,000	25,400	10	44402054	F 3010/6 CO-COOL 40
					60	12,000	25,400	10	44402074	F 3010/6 CO-COOL 60
					80	12,000	25,400	10	44402094	F 3010/6 CO-COOL 80
					120	12,000	25,400	10	44402134	F 3010/6 CO-COOL 120
			15	CO-COOL	40	12,000	25,400	10	44409054	F 3015/6 CO-COOL 40
					60	12,000	25,400	10	44409074	F 3015/6 CO-COOL 60
					80	12,000	25,400	10	44409094	F 3015/6 CO-COOL 80
					120	12,000	25,400	10	44409134	F 3015/6 CO-COOL 120
			20	CO-COOL	40	12,000	25,400	10	47802244	F 3020/6 CO-COOL 40
					60	12,000	25,400	10	47802245	F 3020/6 CO-COOL 60
					80	12,000	25,400	10	47802246	F 3020/6 CO-COOL 80
					120	12,000	25,400	10	47802773	F 3020/6 CO-COOL 120

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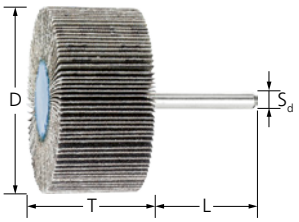
New item

S_d [mm]	L [mm]	D [mm]	T [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
6	40	40	20	CO-COOL	40	9,600	19,100	10	44408054	F 4020/6 CO-COOL 40
					60	9,600	19,100	10	44408074	F 4020/6 CO-COOL 60
					80	9,600	19,100	10	44408094	F 4020/6 CO-COOL 80
					120	9,600	19,100	10	44408134	F 4020/6 CO-COOL 120
		50	30	CO-COOL	40	7,000	15,200	10	44411554	F 5030/6 CO-COOL 40
					60	7,000	15,200	10	44411574	F 5030/6 CO-COOL 60
					80	7,000	15,200	10	44411594	F 5030/6 CO-COOL 80
					120	7,000	15,200	10	44411634	F 5030/6 CO-COOL 120
		60	15	CO-COOL	40	6,300	12,700	10	47802872	F 6015/6 CO-COOL 40
					60	6,300	12,700	10	47802873	F 6015/6 CO-COOL 60
					80	6,300	12,700	10	47802800	F 6015/6 CO-COOL 80
					120	6,300	12,700	10	47802874	F 6015/6 CO-COOL 120
			30	CO-COOL	40	6,300	12,700	10	44411754	F 6030/6 CO-COOL 40
					60	6,300	12,700	10	44411774	F 6030/6 CO-COOL 60
					80	6,300	12,700	10	44411794	F 6030/6 CO-COOL 80
					120	6,300	12,700	10	44411834	F 6030/6 CO-COOL 120



Silicon carbide SiC version

The flaps made of coated abrasive are arranged radially around the axis in a fan-type structure. For general grinding work. Particularly recommended for use on titanium alloys. Ideally suited for use in the aircraft industry, particularly when SiC is the only abrasive approved for use.

Special features:

- Highly flexible, enabling optimal adjustment to the contour.
- Consistently high stock removal rate over the entire tool life as new, aggressive abrasive is constantly exposed.
- Can be used face-down very close to edges and in corners thanks to the flat, moulded-core design.

S_d [mm]	L [mm]	D [mm]	T [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
6	40	20	10	SiC	60	19,000	38,100	10	44400060	F 2010/6 SiC 60
					80	19,000	38,100	10	44400080	F 2010/6 SiC 80
					120	19,000	38,100	10	44400120	F 2010/6 SiC 120
					150	19,000	38,100	10	44400150	F 2010/6 SiC 150
		30	10	SiC	60	12,000	25,400	10	44407066	F 3010/6 SiC 60
					80	12,000	25,400	10	44407086	F 3010/6 SiC 80
					120	12,000	25,400	10	44407126	F 3010/6 SiC 120
					150	12,000	25,400	10	44407156	F 3010/6 SiC 150
			15	SiC	60	12,000	25,400	10	*44415060*	F 3015/6 SiC 60
					80	12,000	25,400	10	*44415080*	F 3015/6 SiC 80
					120	12,000	25,400	10	*44415120*	F 3015/6 SiC 120
					150	12,000	25,400	10	*44415150*	F 3015/6 SiC 150
			20	SiC	60	12,000	25,400	10	44420060	F 3020/6 SiC 60
					80	12,000	25,400	10	44420080	F 3020/6 SiC 80
					120	12,000	25,400	10	44420120	F 3020/6 SiC 120
					150	12,000	25,400	10	44420150	F 3020/6 SiC 150
		40	20	SiC	60	9,600	19,100	10	44440060	F 4020/6 SiC 60
					80	9,600	19,100	10	44440080	F 4020/6 SiC 80
					120	9,600	19,100	10	44440120	F 4020/6 SiC 120
					150	9,600	19,100	10	*44440150*	F 4020/6 SiC 150
		50	30	SiC	60	7,000	15,200	10	*44450060*	F 5030/6 SiC 60

Continued on next page

Flap tools
Mounted flap wheels F

S_d [mm]	L [mm]	D [mm]	T [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
6	40	50	30	SiC	80	7,000	15,200	10	*44450080*	F 5030/6 SiC 80
					120	7,000	15,200	10	*44450120*	F 5030/6 SiC 120
					150	7,000	15,200	10	*44450150*	F 5030/6 SiC 150
		60	30	SiC	60	6,300	12,700	10	44521066	F 6030/6 SiC 60
					80	6,300	12,700	10	44521086	F 6030/6 SiC 80
					120	6,300	12,700	10	44521126	F 6030/6 SiC 120
					150	6,300	12,700	10	44521156	F 6030/6 SiC 150

Mounted flap wheel set

FSO

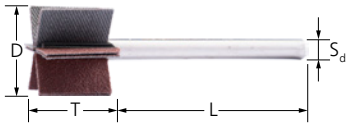
Set of different mounted flap wheels in the aluminium oxide A variant with a shank diameter of 6 mm.

Contents:
Five each of the following mounted flap wheels with shank dia. 6 mm in the following dimensions: 40 x 15 mm (grit sizes 80 and 120), 50 x 15 mm (grit sizes 60 and 80), 60 x 30 mm (grit size 60), 60 x 40 mm (grit sizes 80 and 150) and 80 x 30 mm (grit size 60).

Special features:
- For getting to know and testing the comprehensive range.
- Coordinated selection of the most common versions.
- Promotional display box.

L [mm]	B [mm]	H [mm]		Item no.	Designation
240	145	240	1	44590001	FSO 5400

Mounted flap wheel – bore polisher



Aluminium oxide A version

The flaps made of coated abrasive are arranged radially around the axis in a fan-type structure. The open structure of the tool ensures flexibility and enables grinding even in small bores. Bore polishers are suitable for fine grinding.

Special features:
- Produces uniform surfaces, even in small holes.
- Highly flexible, enabling optimal adjustment to the contour.
- Consistently high stock removal rate over the entire tool life as new, aggressive abrasive is constantly exposed.

S_d [mm]	L [mm]	D [mm]	T [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
6	60	15	20	A	120	25,400	31,800	10	44403250	BP 1520/6-60 6x2 A 120
					150	25,400	31,800	10	44403251	BP 1520/6-60 6x2 A 150
		20	20	A	120	19,100	23,800	10	44403252	BP 2020/6-60 6x2 A 120
					150	19,100	23,800	10	44403253	BP 2020/6-60 6x2 A 150
		25	20	A	120	15,000	19,100	10	44403254	BP 2520/6-60 6x2 A 120
					150	15,000	19,100	10	44403255	BP 2520/6-60 6x2 A 150
		30	20	A	120	12,700	15,900	10	44403256	BP 3020/6-60 6x2 A 120
					150	12,700	15,900	10	44403257	BP 3020/6-60 6x2 A 150

Discontinued product

Flap toolsFlap tools
Unmounted flap wheels FR

Safety notes

- As a rule, unmounted flap wheels should be used with the appropriate clamping flanges.
- The maximum permitted peripheral speed is determined as follows:
  Unmounted flap wheels = 50 m/s
  Unmounted flap wheels for angle grinders = 80 m/s
  Flap drums = 32 m/s.
- The contact pressure must be significantly reduced if the specified optimum rotational speed is exceeded.
- For safety reasons, the maximum permitted rotational speed indicated must never be exceeded.

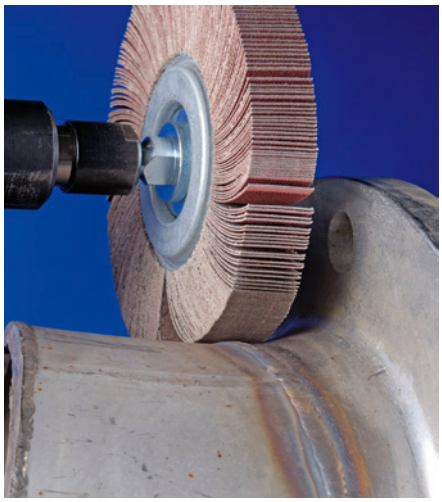
Wear eye protection!

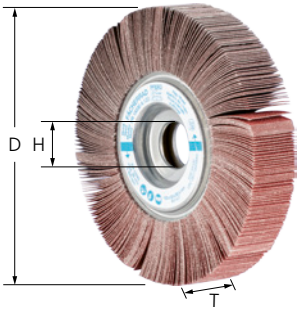
Wear hearing protection!

Wear gloves!

Wear a dust mask!

Follow the safety instructions!





Aluminium oxide A version

The flaps made of coated abrasive are arranged radially around the axis in a fan-type structure. For general applications from coarse to fine grinding.

Special features:

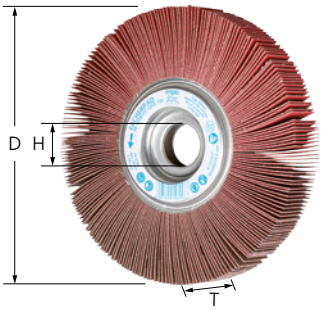
- Highly flexible, enabling optimal adjustment to the contour. Can be used face-down very close to edges and in corners thanks to special clamping system.
- Consistently high stock removal rate over the entire tool life as new, aggressive abrasive is constantly exposed.
- Please order compatible arbor separately.

D [mm]	T [mm]	H [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
100	30	25.4	A	40	5,500	9,500	2	44710041	FR 10030/25,4 A 40
				60	5,500	9,500	2	44710061	FR 10030/25,4 A 60
				80	5,500	9,500	2	44710081	FR 10030/25,4 A 80
				120	5,500	9,500	2	44710121	FR 10030/25,4 A 120
	50	25.4	A	40	5,500	9,500	2	44712041	FR 10050/25,4 A 40
				60	5,500	9,500	2	44712061	FR 10050/25,4 A 60
				80	5,500	9,500	2	44712081	FR 10050/25,4 A 80
				120	5,500	9,500	2	44712121	FR 10050/25,4 A 120
150	30	25.4	A	40	3,500	6,300	2	44724040	FR 15030/25,4 A 40
				60	3,500	6,300	2	44724060	FR 15030/25,4 A 60
				80	3,500	6,300	2	44724080	FR 15030/25,4 A 80
				120	3,500	6,300	2	44724120	FR 15030/25,4 A 120
				150	3,500	6,300	2	44724150	FR 15030/25,4 A 150
	50	25.4	A	40	3,500	6,300	2	44726040	FR 15050/25,4 A 40
				60	3,500	6,300	2	44726060	FR 15050/25,4 A 60
				80	3,500	6,300	2	44726080	FR 15050/25,4 A 80
				120	3,500	6,300	2	44726120	FR 15050/25,4 A 120
				150	3,500	6,300	2	44726150	FR 15050/25,4 A 150
				240	3,500	6,300	2	44726240	FR 15050/25,4 A 240
165	30	25.4	A	40	3,200	5,700	2	44732041	FR 16530/25.4 A 40 HD
				60	3,200	5,700	2	44732061	FR 16530/25.4 A 60 HD
				80	3,200	5,700	2	44732081	FR 16530/25.4 A 80 HD
				120	3,200	5,700	2	44732121	FR 16530/25,4 A 120
				150	3,200	5,700	2	44732151	FR 16530/25,4 A 150
				240	3,200	5,700	2	44732241	FR 16530/25,4 A 240
	50	25.4	A	40	3,200	5,700	2	44731041	FR 16550/25.4 A 40 HD

Continued on next page

Flap tools
Unmounted flap wheels FR

D [mm]	T [mm]	H [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
165	50	25.4	A	60	3,200	5,700	2	44731061	FR 16550/25.4 A 60 HD
				80	3,200	5,700	2	44731081	FR 16550/25.4 A 80 HD
				120	3,200	5,700	2	44731121	FR 16550/25.4 A120 HD
				150	3,200	5,700	2	44731151	FR 16550/25,4 A 150
				240	3,200	5,700	2	44731241	FR 16550/25,4 A 240
				320	3,200	5,700	2	44731321	FR 16550/25,4 A 320
200	30	44	A	60	2,600	4,700	2	44736061	FR 20030/44,0 A 60
				80	2,600	4,700	2	44736081	FR 20030/44,0 A 80
				120	2,600	4,700	2	44736121	FR 20030/44,0 A 120
				240	2,600	4,700	2	44736241	FR 20030/44,0 A 240
	50	44	A	60	2,600	4,700	2	44738061	FR 20050/44,0 A 60
				80	2,600	4,700	2	44738081	FR 20050/44,0 A 80
				120	2,600	4,700	2	44738121	FR 20050/44,0 A 120
				150	2,600	4,700	2	44738151	FR 20050/44,0 A 150
				240	2,600	4,700	2	44738241	FR 20050/44,0 A 240
250	50	44	A	60	2,100	3,800	1	44742061	FR 25050/44,0 A 60
				80	2,100	3,800	1	44742081	FR 25050/44,0 A 80
				120	2,100	3,800	1	44742121	FR 25050/44,0 A 120
				150	2,100	3,800	1	44742151	FR 25050/44,0 A 150
				240	2,100	3,800	1	44742241	FR 25050/44,0 A 240
				320	2,100	3,800	1	44742321	FR 25050/44,0 A 320



Ceramic oxide grain CO-COOL version

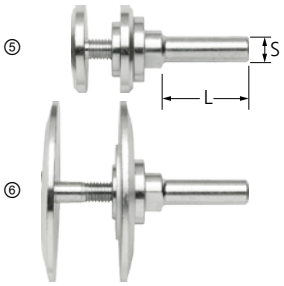
The flaps made of coated abrasive are arranged radially around the axis in a fan-type structure. Consistently high performance and aggressive grinding due to self-sharpening ceramic oxide grain. Active grinding additives improve the stock removal rate, prevent clogging and result in cooler grinding.

Special features:

- Highly flexible, enabling optimal adjustment to the contour. Can be used face-down very close to edges and in corners thanks to special clamping system.
- Consistently high stock removal rate over the entire tool life as new, aggressive abrasive is constantly exposed.
- Please order compatible arbor separately.

D [mm]	T [mm]	H [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
150	30	25.4	CO-COOL	40	3,500	6,300	2	44725204	FR 15030/25,4 CO-COOL 40
				60	3,500	6,300	2	44725206	FR 15030/25,4 CO-COOL 60
				80	3,500	6,300	2	44725208	FR 15030/25,4 CO-COOL 80
				120	3,500	6,300	2	44725212	FR 15030/25,4 CO-COOL 120
	50	25.4	CO-COOL	40	3,500	6,300	2	44727204	FR 15050/25,4 CO-COOL 40
				60	3,500	6,300	2	44727206	FR 15050/25,4 CO-COOL 60
				80	3,500	6,300	2	*44727208*	FR 15050/25,4 CO-COOL 80
				120	3,500	6,300	2	*44727212*	FR 15050/25,4 CO-COOL 120
165	30	25.4	CO-COOL	40	3,200	5,700	2	44733204	FR 16530/25,4 CO-COOL 40
				60	3,200	5,700	2	44733206	FR 16530/25,4 CO-COOL 60
				80	3,200	5,700	2	44733208	FR 16530/25,4 CO-COOL 80
				120	3,200	5,700	2	44733212	FR 16530/25,4 CO-COOL 120
	50	25.4	CO-COOL	40	3,200	5,700	2	*44730304*	FR 16550/25,4 CO-COOL 40
				60	3,200	5,700	2	*44730306*	FR 16550/25,4 CO-COOL 60
				80	3,200	5,700	2	*44730308*	FR 16550/25,4 CO-COOL 80
				120	3,200	5,700	2	*44730312*	FR 16550/25,4 CO-COOL 120

Discontinued product

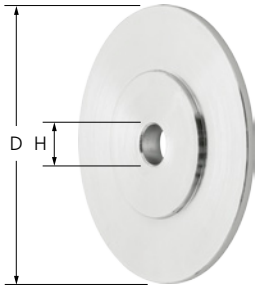


Version with clamping flange

For mounting PFERD TOOLS unmounted flap wheels. The clamping flanges are designed to lie countersunk in the tool.

Special features:
- Can be used face-down very close to edges and in corners thanks to special clamping system.

Image	Suitable for tool diameter [mm]	Suitable for hole diameter [mm]	S [mm]	L [mm]	Clamping range [mm]		Item no.	Designation
⑤	100, 150, 165	25.4	12	40	25 – 50	1	44601225	FR/VR 12/25,4 100-165
⑥	200, 250	44	12	40	25 – 50	1	44601244	FR/VR 12/44,0 200-250



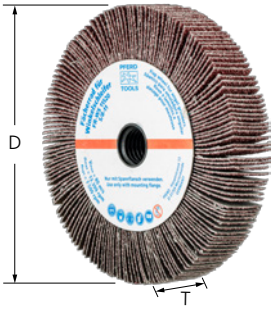
Reducing flanges for unmounted flap wheels

For mounting unmounted flap wheels and POLINOX grinding wheels on drive spindles. The clamping flanges are designed to lie countersunk in the tool.

Special features:
- Can be used face-down very close to edges and in corners thanks to special clamping system.
- Can be adapted to an existing drive spindle by drilling.

Suitable for tool diameter [mm]	D [mm]	H [mm]	Max. H [mm]		Item no.	Designation
150, 165	40	12	22.2	1	44771225	RF FR 150-165 Bo. 12-22,2
200, 250	83	12	40	1	44771244	RF FR 200-250 Bo. 12-40

Unmounted flap wheels for angle grinders



Aluminium oxide A version

The flaps made of coated abrasive are arranged radially around the axis in a fan-type structure. For general applications from coarse to fine grinding.

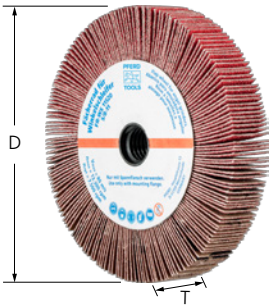
Special features:
- Can be mounted directly on the angle grinder without additional clamping devices (ideal for assembly shop operations).
- Consistently high stock removal rate over the entire tool life as new, aggressive abrasive is constantly exposed.
- Can be used face-down very close to edges and in corners. Highly flexible, enabling optimal adjustment to the contour.

D [mm]	T [mm]	Thread	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
115	20	5/8-11	A	40	7,500	13,300	2	47802558	FR WS 11520 5/8-11 A 40
				60	7,500	13,300	2	47802559	FR WS 11520 5/8-11 A 60
				80	7,500	13,300	2	47802560	FR WS 11520 5/8-11 A 80
				120	7,500	13,300	2	47802561	FR WS 11520 5/8-11 A 120
				180	7,500	13,300	2	47802821	FR WS 11520 5/8-11 A 180
		M14	A	40	7,500	13,300	2	44781504	FR WS 11520 M14 A 40
				60	7,500	13,300	2	44781506	FR WS 11520 M14 A 60
				80	7,500	13,300	2	44781508	FR WS 11520 M14 A 80
				120	7,500	13,300	2	44781512	FR WS 11520 M14 A 120

Continued on next page

Flap tools
Unmounted flap wheels for angle grinders

D [mm]	T [mm]	Thread	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
115	20	M14	A	180	7,500	13,300	2	44781518	FR WS 11520 M14 A 180
				240	7,500	13,300	2	44781524	FR WS 11520 M14 A 240
				320	7,500	13,300	2	44781532	FR WS 11520 M14 A 320
125	20	5/8-11	A	40	6,850	12,200	2	47802663	FR WS 12520 5/8-11 A 40
				60	6,850	12,200	2	47802664	FR WS 12520 5/8-11 A 60
				80	6,850	12,200	2	47802665	FR WS 12520 5/8-11 A 80
				120	6,850	12,200	2	47802666	FR WS 12520 5/8-11 A 120
		M14	A	40	6,850	12,200	2	44782504	FR WS 12520 M14 A 40
				60	6,850	12,200	2	44782506	FR WS 12520 M14 A 60
				80	6,850	12,200	2	44782508	FR WS 12520 M14 A 80
				120	6,850	12,200	2	44782512	FR WS 12520 M14 A 120
				180	6,850	12,200	2	44782518	FR WS 12520 M14 A 180
				240	6,850	12,200	2	44782524	FR WS 12520 M14 A 240
				320	6,850	12,200	2	44782532	FR WS 12520 M14 A 320



Ceramic oxide grain CO-COOL version

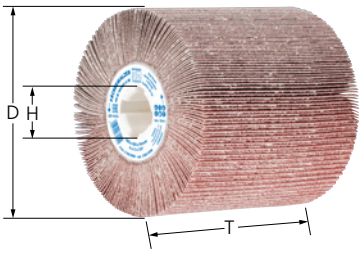
The flaps made of coated abrasive are arranged radially around the axis in a fan-type structure. Consistently high performance and aggressive grinding due to self-sharpening ceramic oxide grain. Active grinding additives improve the stock removal rate, prevent clogging and result in cooler grinding.

Special features:

- Can be mounted directly on the angle grinder without additional clamping devices (ideal for assembly shop operations).
- Consistently high stock removal rate over the entire tool life as new, aggressive abrasive is constantly exposed.
- Can be used face-down very close to edges and in corners. Highly flexible, enabling optimal adjustment to the contour.

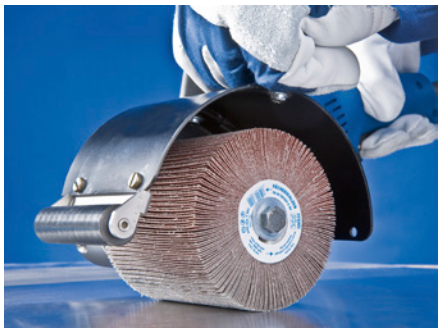
D [mm]	T [mm]	Thread	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
115	20	M14	CO-COOL	40	7,500	13,300	2	*44781604*	FR WS 11520 M14 CO-COOL 40
				60	7,500	13,300	2	*44781606*	FR WS 11520 M14 CO-COOL 60
				80	7,500	13,300	2	*44781608*	FR WS 11520 M14 CO-COOL 80
				120	7,500	13,300	2	*44781612*	FR WS 11520 M14 CO-COOL 120
125	20	M14	CO-COOL	40	6,850	12,200	2	44782604	FR WS 12520 M14 CO-COOL 40
				60	6,850	12,200	2	44782606	FR WS 12520 M14 CO-COOL 60
				80	6,850	12,200	2	44782608	FR WS 12520 M14 CO-COOL 80
				120	6,850	12,200	2	44782612	FR WS 12520 M14 CO-COOL 120

Discontinued product



FR-W type

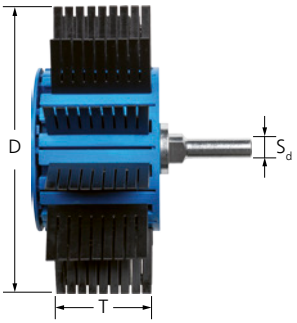
The flaps made of coated abrasive are arranged radially around the axis in a fan-type structure. Can be used for general work on medium and large metal surfaces. Achievement of homogeneous finishes (grinding patterns) on larger surfaces and contours in manual applications.



Special features:
- Suitable for all conventional keyway systems. The 19 mm hole diameter with four keyways fits all conventional drum grinders.
- Consistently high stock removal rate over the entire tool life as new, aggressive abrasive is constantly exposed.
- Can be used face-down very close to edges and in corners thanks to special clamping system. Highly flexible, enabling optimal adjustment to the contour.

D [mm]	T [mm]	H [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
100	100	19	A	40	3,800	6,100	1	44783040	FR-W 100100 A 40
				60	3,800	6,100	1	44783060	FR-W 100100 A 60
				80	3,800	6,100	1	44783080	FR-W 100100 A 80
				120	3,800	6,100	1	44783120	FR-W 100100 A 120
				150	3,800	6,100	1	44783150	FR-W 100100 A 150
				180	3,800	6,100	1	44783180	FR-W 100100 A 180

POLIFLAP tools

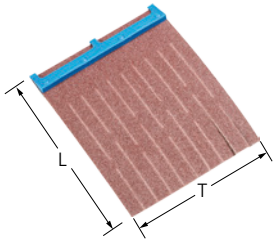


Grinding wheel PFL

The grinding wheel consists of a shank-mounted support and rubber flaps. It must be completed with appropriate abrasive flaps. The combination and arrangement of the abrasive and rubber flaps results in a highly flexible tool.

Special features:
- Ideal for blending different surface textures, fine grinding of radii, contours, curved areas or large surfaces.
- Creates a consistently high surface quality over the entire tool life, as new sharp abrasive is steadily released.
- Comfortable to use thanks to particularly lightweight design. Please order abrasive flaps separately in the required grit size.

D [mm]	T [mm]	S_d [mm]	Opt. RPM	Max. RPM		Item no.	Designation
170	60	12	1,500	3,500	1	42800100	PFL 17060/12

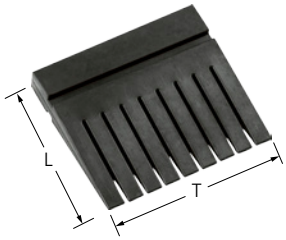


Abrasive flaps PFL-SL

Abrasive flaps with aluminium oxide A as the abrasive, suitable for POLIFLAP grinding wheels, for achieving visual effects ranging from coarse to very fine.

Special features:
- Ideal for blending different surface textures, fine grinding of radii, contours, curved areas or large surfaces.
- Comfortable to use as easy to replace once worn.

L [mm]	T [mm]	Abrasive	Grit size		Item no.	Designation
75	60	A	60	12	42800110	PFL-SL A 60
			80	12	42800111	PFL-SL A 80
			100	12	42800112	PFL-SL A 100
			120	12	42800113	PFL-SL A 120
			150	12	42800114	PFL-SL A 150
			180	12	42800115	PFL-SL A 180
			220	12	42800116	PFL-SL A 220
			320	12	42800117	PFL-SL A 320



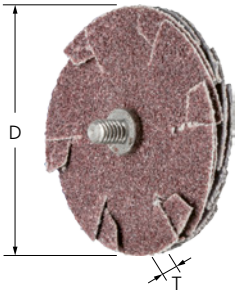
Rubber flaps PFL-GL

Rubber flaps to match the POLIFLAP grinding wheel. They lie between the abrasive flaps, and support the abrasive effect and the flexibility of the tool.

Special features:
- Comfortable to use as easy to replace once worn.
- The packaging unit corresponds to a complete POLIFLAP grinding wheel.

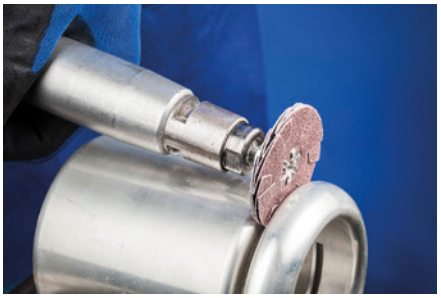
L [mm]	T [mm]		Item no.	Designation
50	55	12	42800120	PFL-GL

Flap tools
Overlap slotted discs KS



KS type

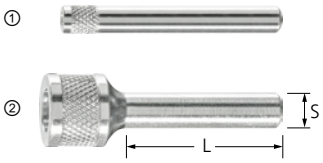
Ideal for face grinding. Special tool with aluminium oxide A as the abrasive for face grinding in grooves, fillets and slots. They are mounted via a central threaded hub.



Special features:
- Hard-to-reach areas can be accessed as the tool provides abrasive action on its top and bottom sides.
- High economic efficiency as tool can be changed quickly.
- Please order compatible arbor separately.

D [mm]	T [mm]	Abrasive	Grit size	Number of layers	Opt. RPM	Max. RPM	Suitable arbors		Item no.	Designation
30	5	A	80	4	6,500	12,000	BO KS 30	20	42863408	KS 30-4 A 80
50	5	A	80	4	4,000	8,000	BO KS 50	20	42865408	KS 50-4 A 80

Arbor for overlap slotted discs BO KS



BO KS

Matching arbor for overlap slotted discs.

Special features:
- Reduced set-up work as the overlap slotted discs can be changed without unclamping the arbor from the collet.

Image	Suitable for	S [mm]	L [mm]	Thread [mm]		Item no.	Designation
①	KS 30-4 A 80	6	40	1/8 BSW	1	42700650	BO KS 30
②	KS 50-4 A 80	6	40	1/4–28 UNF	1	42700640	BO KS 50

Flap toolsFlap tools
POLISTAR

PFERD TOOLS

Safety notes

- For safety reasons, the maximum permitted rotational speed indicated must never be exceeded.

Wear hearing protection!

Wear a dust mask!

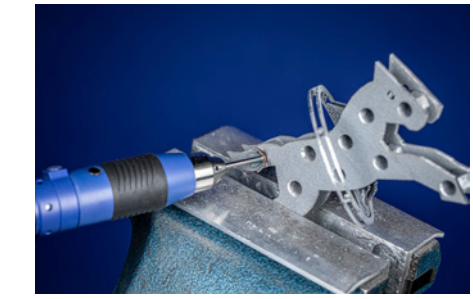
Wear eye protection!

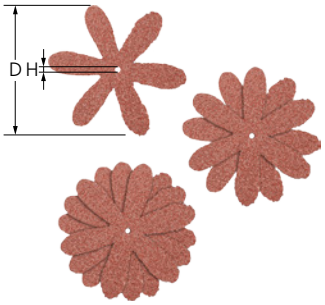
Wear gloves!

Follow the safety instructions!

Matching tool diameter

POLISTAR can be stacked in several layers. Should be aligned at an offset from one another, so that the abrasive has the optimal effect. Select the tool diameter based on the relevant hole diameter:
PST 20/1,6 for hole dia. 7–15 mm
PST 30/1,6 for hole dia. 10–20 mm
PST 40/3 for hole dia. 15–25 mm
PST 50/3 for hole dia. 20–40 mm





PST type

Flexible cross buffs with aluminium oxide A as the abrasive, developed especially for working on inner surfaces, e.g. holes and pipes. Can be stacked in several layers. Align at an offset from one another so that the abrasive has the optimal effect.

Special features:
- Highly flexible, enabling optimal adjustment to the contour.
- The tool dimensions ensure optimal processing of small internal diameters, in particular diameters of 7–40 mm.
- Order matching arbor separately.

D [mm]	H [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM	Suitable arbors		Item no.	Designation
20	1.6	A	60	15,000	38,000	BO 2,3/1-6, BO 3/1,6	100	42730206	PST 20/1,6 A 60
			80	15,000	38,000	BO 2,3/1-6, BO 3/1,6	100	42730208	PST 20/1,6 A 80
			120	15,000	38,000	BO 2,3/1-6, BO 3/1,6	100	42730212	PST 20/1,6 A 120
30	1.6	A	60	9,500	25,000	BO 2,3/1-6, BO 3/1,6	100	42730306	PST 30/1,6 A 60
			80	9,500	25,000	BO 2,3/1-6, BO 3/1,6	100	42730308	PST 30/1,6 A 80
			120	9,500	25,000	BO 2,3/1-6, BO 3/1,6	100	42730312	PST 30/1,6 A 120
40	3	A	60	7,200	19,000	BO 6/3 1-6	100	42730406	PST 40/3,0 A 60
			80	7,200	19,000	BO 6/3 1-6	100	42730408	PST 40/3,0 A 80
			120	7,200	19,000	BO 6/3 1-6	100	42730412	PST 40/3,0 A 120
50	3	A	60	5,700	15,000	BO 6/3 1-6	100	42730506	PST 50/3,0 A 60
			80	5,700	15,000	BO 6/3 1-6	100	42730508	PST 50/3,0 A 80
			120	5,700	15,000	BO 6/3 1-6	100	42730512	PST 50/3,0 A 120

Flap toolsFlap tools
POLISTAR-TUBE

Safety notes

- For safety reasons, the maximum permitted rotational speed indicated must never be exceeded.

Wear hearing protection!

Wear a dust mask!

Wear eye protection!

Wear gloves!

Follow the safety instructions!

Matching tool diameter

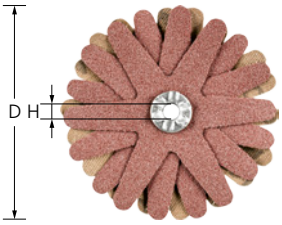
Select the tool diameter based on the respective pipe's inner diameter:
PST-T dia. of 50 mm for an inner pipe dia. of 35–40 mm
PST-T dia. of 60 mm for an inner pipe dia. of 40–45 mm
PST-T dia. of 70 mm for an inner pipe dia. of 45–50 mm
PST-T dia. of 80 mm for an inner pipe dia. of 50–55 mm
PST-T dia. of 90 mm for an inner pipe dia. of 55–60 mm
PST-T dia. of 100 mm for an inner pipe dia. of 60–65 mm

Suitable grit size

Select the correct grit size for the desired roughness:
Grit size 60 = 1.0–1.3 µm R_a
Grit size 120 = 0.6–1.0 µm R_a
Grit size 180 = 0.4–0.6 µm R_a
Grit size 240 = 0.3–0.4 µm R_a
Grit size 320 = 0.2–0.3 µm R_a

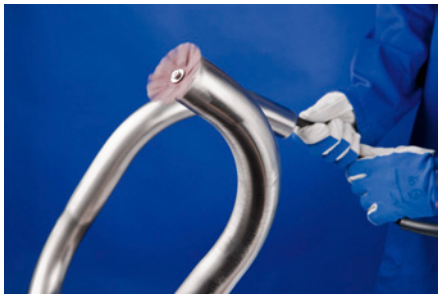
Suitable flexible shafts

Select suitable flexible shafts:
For PST-T dia. 50-80 mm - 4 PST-T DIN 10/M4
For PST-T dia. 90-100 mm - 7 PST-T DIN 10/M5



PST-T type

Multi-layered cross buffs with aluminium oxide A as the abrasive that are riveted together. They are used especially for working on the inner surfaces of pipes and pipe bends. Particularly suitable for work on inner surfaces.



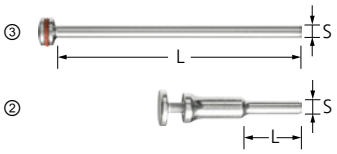
Special features:
- Highly flexible, enabling optimal adjustment to the contour.
- The tool dimensions ensure optimal processing of small internal diameters, in particular diameters of 7–40 mm.

D [mm]	H [mm]	Abrasive	Grit size	Number of layers	Opt. RPM	Max. RPM	Suitable arbors		Item no.	Designation
50	4	A	60	4	3,000	7,650	BO 6/4 0-10	10	42732063	PST-T 50/4 4 A 60
			120	6	3,000	7,650	BO 6/4 0-10	10	42732066	PST-T 50/4 6 A 120
			180	6	3,000	7,650	BO 6/4 0-10	10	42732068	PST-T 50/4 6 A 180
			240	6	3,000	7,650	BO 6/4 0-10	10	42732069	PST-T 50/4 6 A 240
			320	6	3,000	7,650	BO 6/4 0-10	10	42732070	PST-T 50/4 6 A 320
60	4	A	60	4	2,500	6,350	BO 6/4 0-10	10	42732083	PST-T 60/4 4 A 60
			120	6	2,500	6,350	BO 6/4 0-10	10	42732086	PST-T 60/4 6 A 120
			180	6	2,500	6,350	BO 6/4 0-10	10	42732088	PST-T 60/4 6 A 180
			240	6	2,500	6,350	BO 6/4 0-10	10	42732089	PST-T 60/4 6 A 240
70	4	A	60	4	2,200	5,450	BO 6/4 0-10	10	42732103	PST-T 70/4 4 A 60
			120	6	2,200	5,450	BO 6/4 0-10	10	42732106	PST-T 70/4 6 A 120
			180	6	2,200	5,450	BO 6/4 0-10	10	42732108	PST-T 70/4 6 A 180
			240	6	2,200	5,450	BO 6/4 0-10	10	42732109	PST-T 70/4 6 A 240
80	4	A	60	4	1,900	4,750	BO 6/4 0-10	10	42732123	PST-T 80/4 4 A 60
			120	6	1,900	4,750	BO 6/4 0-10	10	42732126	PST-T 80/4 6 A 120

Continued on next page

D [mm]	H [mm]	Abrasive	Grit size	Number of layers	Opt. RPM	Max. RPM	Suitable arbors		Item no.	Designation
80	4	A	180	6	1,900	4,750	BO 6/4 0-10	10	42732128	PST-T 80/4 6 A 180
			240	6	1,900	4,750	BO 6/4 0-10	10	42732129	PST-T 80/4 6 A 240
90	5	A	60	4	1,700	4,250	BO 6/5 0-10	10	42732143	PST-T 90/5 4 A 60
			120	8	1,700	4,250	BO 6/5 0-10	10	42732146	PST-T 90/5 8 A 120
			180	8	1,700	4,250	BO 6/5 0-10	10	42732148	PST-T 90/5 8 A 180
			240	8	1,700	4,250	BO 6/5 0-10	10	42732149	PST-T 90/5 8 A 240
100	5	A	60	4	1,500	3,820	BO 6/5 0-10	10	42732163	PST-T 100/5 4 A 60
			120	8	1,500	3,820	BO 6/5 0-10	10	42732166	PST-T 100/5 8 A 120
			180	8	1,500	3,820	BO 6/5 0-10	10	42732168	PST-T 100/5 8 A 180
			240	8	1,500	3,820	BO 6/5 0-10	10	42732169	PST-T 100/5 8 A 240

Arbor for POLISTAR and POLISTAR-TUBE



BO

Matching arbor for POLISTAR and POLISTAR-TUBE.

Special features:
- High economic efficiency as tool can be changed quickly.

Image	Suitable for hole diameter [mm]	S [mm]	L [mm]	Clamping range [mm]		Item no.	Designation
③	1,6	2.34	43	1 – 5	10	42460023	BO 2,3/1,6 1-5
		3	43	1 – 5	10	42460030	BO 3/1,6 1-5
②	3	6	40	1 – 6	1	42400003	BO 6/3 1-6
	4	6	25	0 – 10	1	42400004	BO 6/4 0-10
	5	6	25	0 – 10	1	42400005	BO 6/5 0-10

Sanding sticks
General information

Safety notes

Wear eye protection!

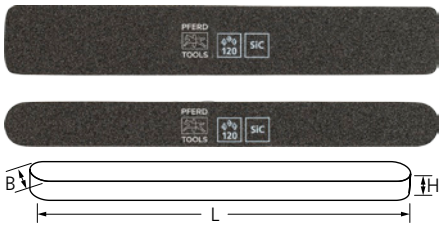
Wear a dust mask!

Wear hearing protection!

Follow the safety instructions!

Wear gloves!

Flexible sanding sticks



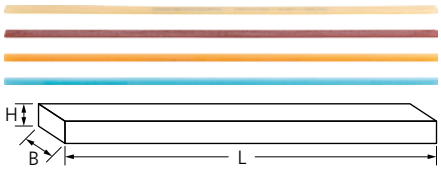
Flexible sanding sticks SF/SF-R

Flexible sanding sticks with silicon carbide SiC for machining components with lots of contours, hard-to-reach areas and narrow slots. They are excellently suited for use in engine construction and turbine construction as well as in tool and mould-making.

Special features:
- Highly flexible, enabling optimal adjustment to the contour.
- Different surface quality levels from coarse to very fine can be successively achieved.

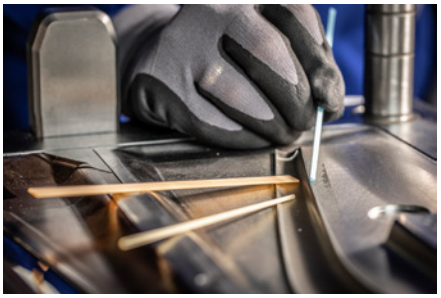
L [mm]	B [mm]	H [mm]	Abrasive	Grit size		Item no.	Designation
SF-R – with radius							
147	15	5	SiC	80	10	40110020	SF-R 147-15-5 SiC 80
				100	10	40110021	SF-R 147-15-5 SiC 100
				120	10	40110022	SF-R 147-15-5 SiC 120
				180	10	40110023	SF-R 147-15-5 SiC 180
				240	10	40110024	SF-R 147-15-5 SiC 240
				320	10	40110025	SF-R 147-15-5 SiC 320
				1000	10	40110026	SF-R 147-15-5 SiC 1000
180	19	5	SiC	80	10	40110001	SF-R 180-19-5 SiC 80
				100	10	40110002	SF-R 180-19-5 SiC 100
				120	10	40110003	SF-R 180-19-5 SiC 120
				180	10	40110004	SF-R 180-19-5 SiC 180
				240	10	40110005	SF-R 180-19-5 SiC 240
				320	10	40110006	SF-R 180-19-5 SiC 320
				1000	10	40110007	SF-R 180-19-5 SiC 1000
SF – without radius							
180	28	5	SiC	80	10	40110040	SF 180-28-5 SiC 80
				100	10	40110041	SF 180-28-5 SiC 100
				120	10	40110042	SF 180-28-5 SiC 120
				180	10	40110043	SF 180-28-5 SiC 180
				240	10	40110044	SF 180-28-5 SiC 240
				320	10	40110045	SF 180-28-5 SiC 320
				1000	10	40110046	SF 180-28-5 SiC 1000

Sanding sticks
Ceramic fibre files



KFF

Ceramic fibre files are made of high-grade ceramic fibres embedded in a special resinoid bond. For work on surfaces, hard-to-reach areas and difficult geometries in tool and mould-making.



Special features:

- High economic efficiency due to high abrasive performance and long tool life.
- For maximum stock removal rate, use the file at a 45° angle. Can be used with manual filing tools from catalogue section 9.

H [mm]	B [mm]	L [mm]	Abrasive	Grit size		Item no.	Designation
Flat							
0.5	4	150	A	180	1	40100018	KFF 0,5 x 4 x 150 A 180
				280	1	40100028	KFF 0,5 x 4 x 150 A 280
				400	1	40100040	KFF 0,5 x 4 x 150 A 400
				700	1	40100070	KFF 0,5 x 4 x 150 A 700
	6	150	A	180	1	*40100318*	KFF 0,5 x 6 x 150 A 180
				280	1	40100328	KFF 0,5 x 6 x 150 A 280
				400	1	*40100340*	KFF 0,5 x 6 x 150 A 400
				700	1	40100370	KFF 0,5 x 6 x 150 A 700
1	4	150	A	180	1	40100118	KFF 1,0 x 4 x 150 A 180
				280	1	40100128	KFF 1,0 x 4 x 150 A 280
				400	1	40100140	KFF 1,0 x 4 x 150 A 400
				700	1	40100170	KFF 1,0 x 4 x 150 A 700
	6	150	A	180	1	40100418	KFF 1,0 x 6 x 150 A 180
				280	1	40100428	KFF 1,0 x 6 x 150 A 280
				400	1	40100440	KFF 1,0 x 6 x 150 A 400
				700	1	40100470	KFF 1,0 x 6 x 150 A 700
	10	150	A	180	1	40100618	KFF 1,0 x 10 x 150 A 180
				280	1	40100628	KFF 1,0 x 10 x 150 A 280
				400	1	40100640	KFF 1,0 x 10 x 150 A 400
				700	1	40100670	KFF 1,0 x 10 x 150 A 700
2	4	150	A	180	1	40100218	KFF 2,0 x 4 x 150 A 180
				280	1	40100228	KFF 2,0 x 4 x 150 A 280
				400	1	40100240	KFF 2,0 x 4 x 150 A 400
				700	1	40100270	KFF 2,0 x 4 x 150 A 700
	6	150	A	180	1	40100518	KFF 2,0 x 6 x 150 A 180
				280	1	40100528	KFF 2,0 x 6 x 150 A 280
				400	1	40100540	KFF 2,0 x 6 x 150 A 400
				700	1	40100570	KFF 2,0 x 6 x 150 A 700
Round							
2.35	-	150	A	180	1	40100802	KFF RD 2,35 x 150 A 180
				280	1	40100804	KFF RD 2,35 x 150 A 280
				400	1	40100806	KFF RD 2,35 x 150 A 400
				700	1	40100808	KFF RD 2,35 x 150 A 700
3	-	150	A	180	1	40100822	KFF RD 3 x 150 A 180
				280	1	40100824	KFF RD 3 x 150 A 280
				400	1	40100826	KFF RD 3 x 150 A 400
				700	1	40100828	KFF RD 3 x 150 A 700

Continued on next page

Discontinued product

Sanding sticks
Ceramic fibre files

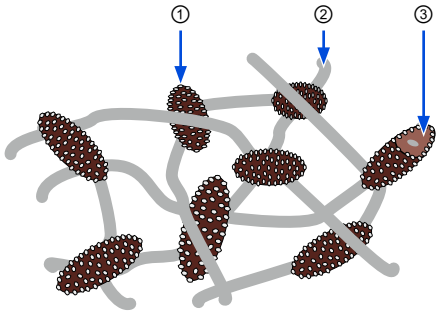
H [mm]	B [mm]	L [mm]	Abrasive	Grit size		Item no.	Designation
Three square			△				
3	3	150	A	180	1	*40100922*	KFF DKT 3 x 3 x 3 x 150 A 180
				280	1	*40100924*	KFF DKT 3 x 3 x 3 x 150 A 280
				400	1	*40100926*	KFF DKT 3 x 3 x 3 x 150 A 400
				700	1	*40100928*	KFF DKT 3 x 3 x 3 x 150 A 700

Discontinued product

Non-woven tools
General information

Non-woven abrasives

Non-woven abrasives consist of
① Abrasive grain,
② Polyamide fibres and
③ Synthetic resins.



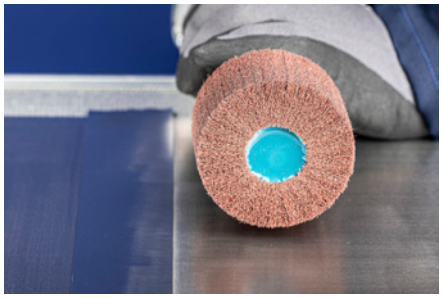
The non-woven fibre structure is impregnated/interspersed with resin and abrasive grain. The even distribution of the abrasive grain within the non-woven mixture guarantees a continuous supply of fresh, sharp abrasive grain during the entire grinding operation.

The very loose connections between the individual fibres ensures a high level of flexibility and gives a strong spring-type effect to the non-woven material. It is flexible and supple, and leaves behind a very distinctive surface structure. The satin-finished grinding result is unique and cannot be achieved with other abrasives.

Grit sizes

Non-woven abrasives are labelled according to the following scheme:

PFERD TOOLS	Grit size [mesh]
very coarse	50–80
coarse	80–100
medium	100–180
fine	180–220
very fine	220–400



Abrasive

Even though non-woven abrasive has a completely different structure to coated abrasives, the same abrasive materials are used for both tool groups.

Aluminium oxide (Al_2O_3)

Aluminium oxide (Al_2O_3) is very durable, achieves a top tool life and is very aggressive on hardened steel. The surface generated is characterized by a higher level of shine. When used on aluminium, discolouration is prevented.

Silicon carbide (SiC)

Silicon carbide (SiC) is even sharper, harder and has better cutting characteristics. It quickly produces a finer, long-lasting slightly matte grinding pattern on the surfaces of many materials.

Safety notes

- For safety reasons, the maximum permitted rotational speed indicated must never be exceeded.
- Use **POLINOX unitized wheels PNER** at a recommended cutting speed of 15–35 m/s.
- Use **POLINOX convolute wheels PNK** at a recommended cutting speed of 20 m/s. The wound construction of the tool requires that the indicated running direction is strictly observed. Non-compliance with the running direction will lead to destruction of the tool and carries an increased risk of accidents.
- Use **POLINOX mounted/unmounted grinding wheels and cross buffs** at a recommended cutting speed of 10–20 m/s.
- Use **POLICLEAN tools** at a recommended cutting speed of 15–20 m/s.

Wear eye protection!

Wear hearing protection!

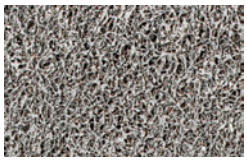
Wear gloves!

Wear a dust mask!

Follow the safety instructions!

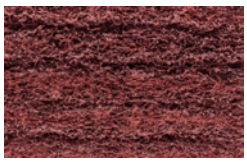
Non-woven tools
General information

Available types and hardness grades

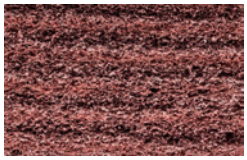


PNER
Thanks to different combinations of compaction, fibres, grit and the appropriate bond, this tool can be used for a wide range of applications for work on surfaces, from relatively coarse grinding to preparing the surface for polishing.

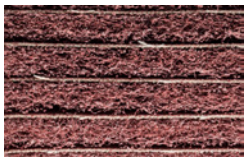
PNK
The non-woven abrasive is wound around a core and foamed up. The tools can be optimized for a variety of applications by implementing different foam, fibre, grain and bond combinations. Uses range from fine deburring to preparation for polishing.



PNL
The non-woven abrasive material is arranged in multiple radial flaps. A long tool life is achieved through the very dense packing of the flaps.
The tool is particularly used for surface work.

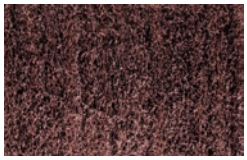


PNL-HP
The non-woven abrasive features extremely aggressive performance and a long tool life. It is made of radially arranged flaps and is particularly used for surface work.

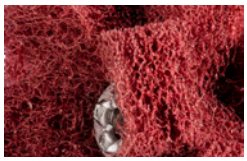


PNZ
The non-woven abrasive material is arranged in multiple radial flaps, with abrasive cloth interlayers. The flap structure facilitates improved stock removal and achieves a coarser surface finish.

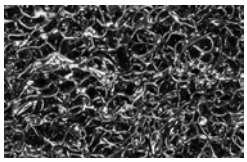
PNG
The non-woven abrasive is made of several very wavily arranged strips of non-woven abrasive material, wound around a core. The wavy structure of the non-woven abrasive material permits seamless brush matting of surfaces.



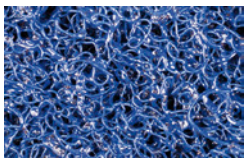
PNR
The non-woven abrasive material is arranged in multiple (axial) disc layers. Since the individual non-woven discs are not interconnected, the abrasive surface adapts easily to different workpiece contours, e.g. when working on profiles or pipes.



PNST
The non-woven abrasive is star-shaped and stacked in layers which are connected in the centre. Particularly suitable for narrow application areas and hard-to-reach places such as drilled holes and indentations.



POLICLEAN
The non-woven abrasive combines synthetic fibres, resin and abrasive grain. As the non-woven abrasive has a firm, coarse structure, it is particularly suitable for coarse cleaning work such as removing paint, scale, heat discolouration, rust and adhesive residues.



POLICLEAN PLUS
The non-woven abrasive combines synthetic fibres, resin and abrasive grain. As the non-woven abrasive has a very firm, coarse structure, it is extremely sturdy and ensures a high stock removal rate.
It is particularly suitable for roughening and for very coarse cleaning work such as removing paint, scale, heat discolouration, rust and adhesive residues.

Non-woven tools

General information on POLINOX unitized wheels and discs PNER

Available types

W **Soft**
Soft version with excellent adaptability. The durability, grinding performance and very high surface quality are maintained at the same time. Very well-suited to work on contours.

MW **Medium-soft**
Medium-soft version with increased edge strength and tool life for coarse blending and polishing tasks. Well-suited to work on contours.

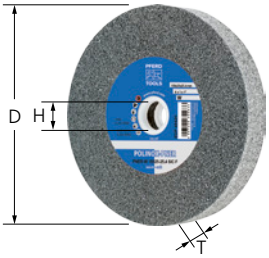
MH **Medium-hard**
Medium-hard version with increased edge strength and tool life for coarse deburring and cleaning applications.

H **Hard**
Hard version with very high stock removal rate, good edge strength and long tool life for tough deburring and polishing applications.

Comparison table

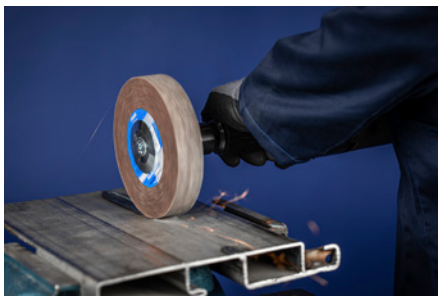
PFERD TOOLS PNER				3M	Standard Abrasives	Norton	BIBIELLE
Type	Colour code	Abrasive	Grit				
Soft	W	SiC	fine	EXL 2S fine	532	UW1-2SF or Nex-2SF	BUH 2SF
		A	coarse	EXL 2A medium	521	UW1-2AM or Nex-2AM	BUH 2AM
Medium-soft	MW	SiC	fine	EXL 4S fine or SST 3S fine	632	UW1-4SF	BUH 3SF
		A	fine	EXL 4A fine or SST 3A fine	631	UW1-4AF	-
Medium-hard	MH	SiC	fine	Cut & polish 5S fine	732	NEX-6SF	BUH 6SF
		A	fine	Cut & polish 5A fine or SST 5A fine	731	UW1-6AF or Nex-6AF	-
Hard	H	A	fine	Cut & polish 7A medium or 9A medium	821	UW1-8AM or Nex-8AM	BUH 6AM
		A	coarse	Cut & polish 7A coarse or 9A coarse	811	UW1-8AC or Nex-8AC	BUH 8AC

Non-woven tools
POLINOX unitized wheels PNER



PNER type for straight grinders, flexible shaft drives and bench grinders

Consist of multiple heavily compressed, non-woven layers, which are bonded together by a special grain/resin system. Particularly suitable for working on soft metals, alloyed and high-alloy steels and titanium alloy.

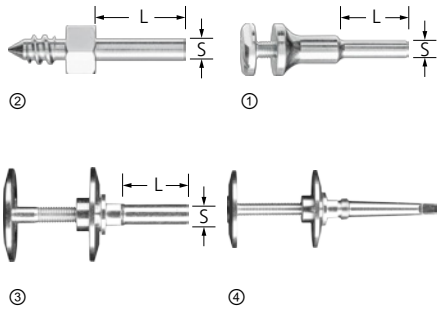


Special features:

- High economic efficiency due to high abrasive performance and long tool life.
- Produces very good surface quality and can be profiled as desired, enabling optimal adjustment to the contour. Ideal for cleaning, deburring, blending and polishing.

D [mm]	T [mm]	H [mm]	Grit size	Version	Abra-sive	Opt. RPM	Max. RPM	Suitable arbors		Item no.	Designation
Type for straight grinders, flexible shafts and bench grinders											
25	25	6	fine	MH	A	19,000	30,500	BO PNER 25 S6	10	*44691202*	PNER-MH 2525-6 A F
50	3	6	fine	H	A	9,500	15,300	BO 6/6 3-10	10	44691005	PNER-H 5003-6 A F
			coarse	MH	A	9,500	15,300	BO 6/6 3-10	10	47700208	PNER-MH 5003-6 A G
75	3	6	coarse	W	A	6,400	10,200	BO 6/6 3-10	10	47803085	PNER-W 7503-6 A G
			fine	W	SiC	6,400	10,200	BO 6/6 3-10	10	47803086	PNER-W 7503-6 SiC F
				MW	SiC	6,400	10,200	BO 6/6 3-10	10	47803087	PNER-MW 7503-6 SiC F
				MH	A	6,400	10,200	BO 6/6 3-10	10	47803088	PNER-MH 7503-6 A F
			coarse	MH	A	6,400	10,200	BO 6/6 3-10	10	47700209	PNER-MH 7503-6 A G
				H	A	6,400	10,200	BO 6/6 3-10	10	47803089	PNER-H 7503-6 A G
			fine	H	A	6,400	10,200	BO 6/6 3-10	10	44691010	PNER-H 7503-6 A F
	6	6	coarse	W	A	6,400	10,200	BO 6/6 3-10	5	44691621	PNER-W 7506-6 A G
			fine	W	SiC	6,400	10,200	BO 6/6 3-10	5	44691627	PNER-W 7506-6 SiC F
				MW	A	6,400	10,200	BO 6/6 3-10	5	44691422	PNER-MW 7506-6 A F
					SiC	6,400	10,200	BO 6/6 3-10	5	44691427	PNER-MW 7506-6 SiC F
				MH	A	6,400	10,200	BO 6/6 3-10	5	44691222	PNER-MH 7506-6 A F
			coarse	H	A	6,400	10,200	BO 6/6 3-10	5	44691021	PNER-H 7506-6 A G
	13	6	coarse	W	A	6,400	10,200	BO 6/6 3-10	5	44691641	PNER-W 7513-6 A G
			fine	W	SiC	6,400	10,200	BO 6/6 3-10	5	44691647	PNER-W 7513-6 SiC F
				MW	A	6,400	10,200	BO 6/6 3-10	5	44691442	PNER-MW 7513-6 A F
					SiC	6,400	10,200	BO 6/6 3-10	5	44691447	PNER-MW 7513-6 SiC F
				MH	A	6,400	10,200	BO 6/6 3-10	5	44691242	PNER-MH 7513-6 A F
			coarse	H	A	6,400	10,200	BO 6/6 3-10	5	44691041	PNER-H 7513-6 A G
150	25	25.4	fine	W	SiC	3,200	5,100	BO 12/20	1	44691667	PNER-W 15025-25,4 SiC F
				MW	A	3,200	5,100	BO 12/20	1	44691462	PNER-MW 15025-25,4 A F
					SiC	3,200	5,100	BO 12/20	1	44691467	PNER-MW 15025-25,4 SiC F
				MH	A	3,200	5,100	BO 12/20	1	44691262	PNER-MH 15025-25,4 A F
			coarse	H	A	3,200	5,100	BO 12/20	1	44691061	PNER-H 15025-25,4 A G

Discontinued product



Arbor BO

Matching arbor for POLINOX unitized wheels.

Special features:
- High economic efficiency as tool can be changed quickly.

Image	Suitable for hole diameter [mm]	S [mm]	L [mm]	Clamping range [mm]		Item no.	Designation
②	6	6	25	-	1	42700256	BO PNER 25 S6
①	6	6	25	3 – 10	1	42400006	BO 6/6 3-10
③	20	12	35	10 – 50	1	42400012	BO 12/20 10-50
④	20	-	-	10 – 50	1	42400062	BO MK 1/20 10-50

POLINOX unitized wheels PNER

PNER type for speed-adjustable angle grinders and fillet weld grinders

Consist of multiple heavily compressed, non-woven layers, which are bonded together by a special grain/resin system. Particularly suitable for work on fillet welds and hard-to-reach slots or indentations.

Special features:
- High economic efficiency due to high abrasive performance and long tool life.
- Produces very good surface quality. Can be profiled as desired, enabling optimal adjustment to the contour.
- Ideal for cleaning, deburring, blending and polishing.

D [mm]	T [mm]	H [mm]	Grit size	Version	Abra-sive	Opt. RPM	Max. RPM		Item no.	Designation
Type for angle grinders and fillet weld grinders										
125	6	22.23	fine	MW (medium-soft)	A	4,500	6,100	5	44691453	PNER-MW 12506-22,2 A F
					SiC	4,500	6,100	5	44691452	PNER-MW 12506-22,2 SiC F
				MH (medium-hard)	A	4,500	6,100	5	44691252	PNER-MH 12506-22,2 A F
			coarse	MH (medium-hard)	A	4,500	6,100	5	47700211	PNER-MH 12506-22.2 A G
				H (hard)	A	4,500	6,100	5	44691053	PNER-H 12506-22,2 A G
			fine	H (hard)	A	4,500	6,100	5	44691052	PNER-H 12506-22,2 A F
150	3	25.4	fine	MW (medium-soft)	SiC	3,800	5,100	5	44691628	PNER-MW 15003-25,4 SiC F
				MH (medium-hard)	SiC	3,800	5,100	5	44691629	PNER-MH 15003-25,4 SiC F
			coarse	MH (medium-hard)	A	3,800	5,100	5	47700210	PNER-MH 15003-25.4 A G
			fine	H (hard)	A	3,800	5,100	5	44691630	PNER-H 15003-25,4 A F
	6	25.4	fine	W (soft)	SiC	3,800	5,100	5	44691631	PNER-W 15006-25,4 SiC F
				MW (medium-soft)	SiC	3,800	5,100	5	44691632	PNER-MW 15006-25,4 SiC F
			coarse	MH (medium-hard)	A	3,800	5,100	5	47700212	PNER-MH 15006-25.4 A G
			fine	H (hard)	A	3,800	5,100	5	44691633	PNER-H 15006-25,4 A F
	13	12.7	fine	W (soft)	SiC	3,800	5,100	5	47802723	PNER-W 15013-12,7 SiC F
				MW (medium-soft)	SiC	3,800	5,100	5	47700200	PNER-MW 15013-12,7 SiC F
				MH (medium-hard)	SiC	3,800	5,100	5	47700201	PNER-MH 15013-12,7 SiC F

PNER discs for speed-adjustable angle grinders

Consist of multiple heavily compressed, non-woven layers, which are glued to a backer and bonded together by a special grain/resin system. Particularly suitable for working on soft metals, alloyed and high-alloy steels and titanium alloys.

Special features:
- High economic efficiency due to high abrasive performance and long tool life.
- Produces very good surface quality. Can be profiled as desired, enabling optimal adjustment to the contour.
- Ideal for cleaning, deburring, blending and polishing.

D [mm]	T [mm]	H [mm]	Grit size	Version	Abrasive	Opt. RPM	Max. RPM		Item no.	Designation
115	13	22.23	fine	W (soft)	SiC	6,000	10,000	5	44690732	DISC PNER-W 115-22,2 SiC F
				MW (medium-soft)	SiC	6,000	10,000	5	44690722	DISC PNER-MW 115-22,2 SiC F
				MH (medium-hard)	SiC	6,000	10,000	5	44690712	DISC PNER-MH 115-22,2 SiC F
125	13	22.23	fine	W (soft)	SiC	5,400	10,000	5	44690733	DISC PNER-W 125-22,2 SiC F
				MW (medium-soft)	SiC	5,400	10,000	5	44690723	DISC PNER-MW 125-22,2 SiC F
				MH (medium-hard)	SiC	5,400	10,000	5	44690713	DISC PNER-MH 125-22,2 SiC F

POLINOX compact mounted points PNER

Aluminium oxide A version

Multiple heavily compressed, non-woven layers, which are bonded together by a special grain/resin system. The aluminium oxide A version is ideal for general-purpose applications on steel and non-ferrous metals.

Special features:
- High economic efficiency due to high abrasive performance and long tool life.
- Produces very good surface quality.
- Ideal for removing heat discolouration in hard-to-reach areas.

D [mm]	T [mm]	S_d [mm]	L [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
Tapered PNER										
10	25	3	30	A	G (coarse)	28,600	38,100	10	47700293	PNER-H KE 1025/3 A G
					F (fine)	28,600	38,100	10	47700292	PNER-MH KE 1025/3 A F
Ball PNER										
15	15	6	40	A	G (coarse)	25,400	44,500	10	47700279	PNER-H KU 15/6 A G
									47700278	PNER-MH KU 15/6 A F
									47700277	PNER-MW KU 15/6 A F
20	20	6	40	A	G (coarse)	23,800	33,400	10	47700283	PNER-H KU 20/6 A G
									47700282	PNER-MH KU 20/6 A F
									47700281	PNER-MW KU 20/6 A F
25	25	6	40	A	G (coarse)	19,000	30,500	10	47700287	PNER-H KU 25/6 A G
									47700286	PNER-MH KU 25/6 A F
									47700285	PNER-MW KU 25/6 A F
Tree PNER										
10	20	3	30	A	G (coarse)	28,600	38,100	10	47700290	PNER-H SP 1020/3 A G
					F (fine)	28,600	38,100	10	47700289	PNER-MH SP 1020/3 A F

Continued on next page

New item

Non-woven tools
POLINOX compact mounted points PNER

PFERD TOOLS

D [mm]	T [mm]	S_d [mm]	L [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
Cylindrical with radius end PNER										
10	25	3	30	A	G (coarse)	28,600	38,100	10	47700296	PNER-H WR 1025/3 A G
					F (fine)	28,600	38,100	10	47700295	PNER-MH WR 1025/3 A F
Cylindrical PNER										
10	10	3	30	A	G (coarse)	28,600	38,100	10	47700252	PNER-H ZY 1010/3 A G
					F (fine)	28,600	38,100	10	47700251	PNER-MH ZY 1010/3 A F
	20	3	30	A	G (coarse)	28,600	38,100	10	47700255	PNER-H ZY 1020/3 A G
					F (fine)	28,600	38,100	10	47700254	PNER-MH ZY 1020/3 A F
15	10	3	30	A	G (coarse)	25,400	44,500	10	47700257	PNER-H ZY 1510/3 6 G
		6	30	A	F (fine)	25,400	44,500	10	47700256	PNER-MH ZY 1510/6 A F
	20	6	30	A	G (coarse)	25,400	44,500	10	47700259	PNER-H ZY 1520/6 A G
					F (fine)	25,400	44,500	10	47700258	PNER-MH ZY 1520/6 A F
20	10	6	40	A	G (coarse)	23,800	33,400	10	47700263	PNER-H ZY 2010/6 A G
					F (fine)	23,800	33,400	10	47700262	PNER-MH ZY 2010/6 A F
									47700261	PNER-MW ZY 2010/6 A F
	20	6	40	A	G (coarse)	23,800	33,400	10	47700267	PNER-H ZY 2020/6 A G
					F (fine)	23,800	33,400	10	47700266	PNER-MH ZY 2020/6 A F
									47700265	PNER-MW ZY 2020/6 A F
25	13	6	40	A	G (coarse)	19,000	30,500	10	47700271	PNER-H ZY 2513/6 A G
					F (fine)	19,000	30,500	10	47700270	PNER-MH ZY 2513/6 A F
									47700269	PNER-MW ZY 2513/6 A F
	25	6	40	A	G (coarse)	19,000	30,500	10	47700275	PNER-H ZY 2525/6 A G
					F (fine)	19,000	30,500	10	47700274	PNER-MH ZY 2525/6 A F
									47700273	PNER-MW ZY 2525/6 A F
50	13	6	40	A	G (coarse)	9,500	15,300	5	47700229	PNER-H ZY 5013/6 A G
					F (fine)	9,500	15,300	5	47700228	PNER-MH ZY 5013/6 A F
									47700226	PNER-MW ZY 5013/6 A F
					G (coarse)	9,500	15,300	5	47700224	PNER-W ZY 5013/6 A G
	25	6	40	A	G (coarse)	9,500	15,300	5	47700236	PNER-H ZY 5025/6 A G
					F (fine)	9,500	15,300	5	47700235	PNER-MH ZY 5025/6 A F
									47700233	PNER-MW ZY 5025/6 A F
					G (coarse)	9,500	15,300	5	47700231	PNER-W ZY 5025/6 A G
75	13	6	40	A	G (coarse)	6,400	10,200	5	47700243	PNER-H ZY 7513/6 A G
			40		F (fine)	6,400	10,200	5	47700242	PNER-MH ZY 7513/6 A F
		6	40	A	F (fine)	6,400	10,200	5	47700240	PNER-MW ZY 7513/6 A F
					G (coarse)	6,400	10,200	5	47700238	PNER-W ZY 7513/6 A G
	25	6	40	A	G (coarse)	6,400	10,200	5	47700249	PNER-H ZY 7525/6 A G
					F (fine)	6,400	10,200	5	47700248	PNER-MH ZY 7525/6 A F
									47700247	PNER-MW ZY 7525/6 A F
									47700245	PNER-W ZY 7525/6 A G

New item

Non-woven tools
POLINOX compact mounted points PNER

Silicon carbide SiC version

Multiple heavily compressed, non-woven layers, which are bonded together by a special grain/resin system. The SiC version is ideally suited to demanding tasks on hard or sensitive materials.

Special features:
- High economic efficiency due to high abrasive performance and long tool life.
- Produces very good surface quality.
- Ideal for removing heat discolouration in hard-to-reach areas.

D [mm]	T [mm]	S_d [mm]	L [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
Tapered PNER										
10	25	3	30	SiC	F (fine)	28,600	38,100	10	47700291	PNER-MH KE 1025/3 SIC F
Ball PNER										
15	15	6	40	SiC	F (fine)	25,400	44,500	10	47700276	PNER-MW KU 15/6 SIC F
20	20	6	40	SiC	F (fine)	23,800	33,400	10	47700280	PNER-MW KU 20/6 SIC F
25	25	6	40	SiC	F (fine)	19,000	30,500	10	47700284	PNER-MW KU 25/6 SIC F
Tree PNER										
10	20	3	30	SiC	F (fine)	28,600	38,100	10	47700288	PNER-MH SP 1020/3 SIC F
Cylindrical with radius end PNER										
10	25	3	30	SiC	F (fine)	28,600	38,100	10	47700294	PNER-MH WR 1025/3 SIC F
Cylindrical PNER										
10	10	3	30	SiC	F (fine)	28,600	38,100	10	47700250	PNER-MH ZY 1010/3 SIC F
	20	3	30	SiC	F (fine)	28,600	38,100	10	47700253	PNER-MH ZY 1020/3 SIC F
20	10	6	40	SiC	F (fine)	23,800	33,400	10	47700260	PNER-MW ZY 2010/6 SIC F
	20	6	40	SiC	F (fine)	23,800	33,400	10	47700264	PNER-MW ZY 2020/6 SIC F
25	13	6	40	SiC	F (fine)	19,000	30,500	10	47700268	PNER-MW ZY 2513/6 SIC F
	25	6	40	SiC	F (fine)	19,000	30,500	10	47700272	PNER-MW ZY 2525/6 SIC F
50	13	6	40	SiC	F (fine)	6,400	10,200	5	47700227	PNER-MH ZY 5013/6 SIC F
						9,500	15,300	5	47700225	PNER-MW ZY 5013/6 SIC F
									47700223	PNER-W ZY 5013/6 SIC F
	25	6	40	SiC	F (fine)	9,500	15,300	5	47700234	PNER-MH ZY 5025/6 SIC F
									47700232	PNER-MW ZY 5025/6 SIC F
									47700230	PNER-W ZY 5025/6 SIC F
75	13	6	40	SiC	F (fine)	6,400	10,200	5	47700241	PNER-MH ZY 7513/6 SIC F
									47700239	PNER-MW ZY 7513/6 SIC F
									47700237	PNER-W ZY 7513/6 SIC F
	25	6	40	SiC	F (fine)	6,400	10,200	5	47700246	PNER-MW ZY 7525/6 SIC F
									47700244	PNER-W ZY 7525/6 SIC F

New item

Non-woven tools
General information on POLINOX convolute wheels PNK

PFERD TOOLS

Available types

W **Soft**
Soft version with very good abrasive performance on contours. Very good for blending surfaces.

MW **Medium-soft**
Medium-soft version with increased flexibility and tool life for coarse blending applications and for light deburring and polishing work. Well-suited to work on contours.

MH **Medium-hard**
Medium-hard version with increased edge strength and tool life for coarse deburring applications and deburring, blending and cleaning work.

H **Hard**
Hard version with very high stock removal rate, good edge strength and long tool life for medium to heavy-duty deburring and polishing applications.

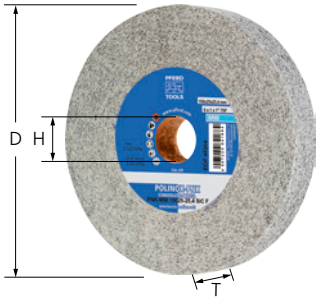
EH **Extra-hard**
Extra-hard version with excellent edge strength for demanding deburring work.

4

Comparison table

PFERD TOOLS PNK				3M	Standard Abrasives	Norton	BIBIELLE
Type	Colour code	Abrasive	Grit				
Soft	W	A	coarse	CP-WL 5AM	MF CV 5AM	MF CF 5AM	BCW-MF 5AM
Medium-soft	MW	SiC	fine	LDW 7SF	LDW 7SF	Series 2000 7SF	BCW-DB 7SF
Medium-hard	MH	SiC	fine	EXL Deburring 8SF	Deburring 8SF	Series 1000 8SF	BCW-DB 8SF
	MH	A	coarse	EXL Deburring 8AM	GP Plus 8AM	Series 1000 8AM	BCW-DB 8AM
Hard	H	SiC	fine	Deburring 9SF	EXL Deburring 9SF	Series 1000 9SF	BCW-DB 9SF
Extra-hard	EH	SiC	fine	XP-WL 10SF	GP Plus 10SF	Series 4000 9SF	BCW-DB 9SF-R

Non-woven tools
POLINOX convolute wheels PNK



PNK type

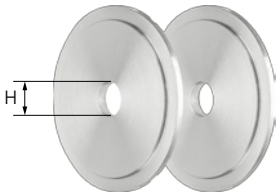
Consist of non-woven abrasive which is wound around a core in a spiral shape. Particularly suitable for working on soft metals, alloyed and high-alloy steels and titanium alloys, e.g. on turbine blades and for the removal of processing traces on surgical instruments.

Special features:

- High economic efficiency due to high abrasive performance and long tool life.
- Produces very good surface quality. Can be profiled as desired, enabling optimal adjustment to the contour.
- Ideal for cleaning, deburring, blending and polishing.

D [mm]	T [mm]	H [mm]	Grit size	Version	Abra-sive	Opt. RPM	Max. RPM		Item no.	Designation
150	13	25.4	fine	MW (medium-soft)	SiC	2,500	5,100	1	47802637	PNK-MW 15013-25,4 SiC F
				MH (medium-hard)	SiC	2,500	5,100	1	47802639	PNK-MH 15013-25,4 SiC F
			coarse	MH (medium-hard)	A	2,500	5,100	1	47802638	PNK-MH 15013-25,4 A G
			fine	H (hard)	SiC	2,500	5,100	1	47802640	PNK-H 15013-25,4 SiC F
				EH (extra-hard)	SiC	2,500	5,100	1	47803030	PNK-EH 15013-25,4 SiC F
	25	25.4	coarse	W (soft)	A	2,500	5,100	1	47802730	PNK W 15025-25,4 A G
			fine	MW (medium-soft)	SiC	2,500	5,100	1	47802641	PNK-MW 15025-25,4 SiC F
				MH (medium-hard)	SiC	2,500	5,100	1	47802643	PNK-MH 15025-25,4 SiC F
			coarse	MH (medium-hard)	A	2,500	5,100	1	47802642	PNK-MH 15025-25,4 A G
			fine	H (hard)	SiC	2,500	5,100	1	47802644	PNK-H 15025-25,4 SiC F
				EH (extra-hard)	SiC	2,500	5,100	1	47803031	PNK-EH 15025-25,4 SiC F
	50	25.4	coarse	W (soft)	A	2,500	5,100	1	47802731	PNK-W 15050-25.4 A G
200	13	76.2	fine	MW (medium-soft)	SiC	1,900	3,850	1	47802645	PNK-MW 20013-76,2 SiC F
				MH (medium-hard)	SiC	1,900	3,850	1	47802647	PNK-MH 20013-76,2 SiC F
			coarse	MH (medium-hard)	A	1,900	3,850	1	47802646	PNK-MH 20013-76,2 A G
			fine	H (hard)	SiC	1,900	3,850	1	47802648	PNK-H 20013-76,2 SiC F
				EH (extra-hard)	SiC	1,900	3,850	1	47802882	PNK-EH 20013-76,2 SiC F
	25	76.2	coarse	W (soft)	A	1,900	3,850	1	47803029	PNK-W 20025-76,2 A G
			fine	MW (medium-soft)	SiC	1,900	3,850	1	47802649	PNK-MW 20025-76,2 SiC F
				MH (medium-hard)	SiC	1,900	3,850	1	47802651	PNK-MH 20025-76,2 SiC F
			coarse	MH (medium-hard)	A	1,900	3,850	1	47802650	PNK-MH 20025-76,2 A G
			fine	H (hard)	SiC	1,900	3,850	1	47802652	PNK-H 20025-76,2 SiC F
				EH (extra-hard)	SiC	1,900	3,850	1	47802881	PNK-EH 20025-76,2 SiC F
	50	76.2	coarse	W (soft)	A	1,900	3,850	1	47802732	PNK W 20050-76,2 A G
			fine	MW (medium-soft)	SiC	1,900	3,850	1	47802653	PNK-MW 20050-76,2 SiC F
				MH (medium-hard)	SiC	1,900	3,850	1	47802655	PNK-MH 20050-76,2 SiC F
			coarse	MH (medium-hard)	A	1,900	3,850	1	47802654	PNK-MH 20050-76,2 A G
			fine	H (hard)	SiC	1,900	3,850	1	47802656	PNK-H 20050-76,2 SiC F
				EH (extra-hard)	SiC	1,900	3,850	1	47802880	PNK-EH 20050-76,2 SiC F

Non-woven tools
Clamping flanges for POLINOX convolute wheels PNK



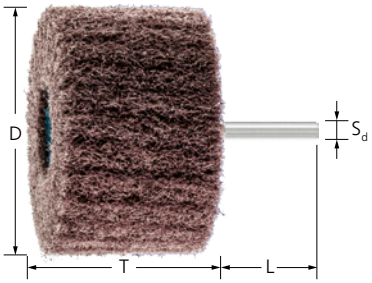
RF PNK

For mounting POLINOX convolute wheels PNK with a diameter of 200 mm on stationary machines such as double grinding machines (bench grinders).

Special features:
- High accuracy of fit.
- Hole can be expanded as desired.

Suitable for tool diameter [mm]	H [mm]		Item no.	Designation
76,2	16.1	1	47601200	RF PNK 200 Bo. 16,1
	25.4	1	47601201	RF PNK 200 Bo. 25,4
	31.8	1	47601202	RF PNK 200 Bo. 31,8

POLINOX mounted grinding wheels



PNL type

The non-woven abrasive material is arranged in multiple radial flaps. A long tool life is achieved through the dense packing of the flaps. It is particularly used for surface work. Available in aluminium oxide A and silicon carbide (SiC).

Special features:
- Highly flexible, enabling optimal adjustment to the contour.
- Cool grinding and low thermal load on the workpiece.
- The open structure and high flexibility of the non-woven material prevents tool clogging.

D [mm]	T [mm]	S_d [mm]	L [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
Aluminium oxide A										
30	25	6	40	A	100	10,000	20,000	10	44653100	PNL 3025/6 A 100
					180	10,000	20,000	10	44653180	PNL 3025/6 A 180
					280	10,000	20,000	10	44653280	PNL 3025/6 A 280
40	20	6	40	A	80	7,500	15,000	10	44698505	PNL 4020/6 A 80
					100	7,500	15,000	10	44654100	PNL 4020/6 A 100
					180	7,500	15,000	10	44654180	PNL 4020/6 A 180
					280	7,500	15,000	10	44654280	PNL 4020/6 A 280
					360	7,500	15,000	10	44698506	PNL 4020/6 A 360
50	30	6	40	A	80	6,000	12,000	10	44698507	PNL 5030/6 A 80
					100	6,000	12,000	10	44655100	PNL 5030/6 A 100
					180	6,000	12,000	10	44655180	PNL 5030/6 A 180
					280	6,000	12,000	10	44655280	PNL 5030/6 A 280
					360	6,000	12,000	10	44698508	PNL 5030/6 A 360
60	25	6	40	A	100	5,000	10,000	10	44656010	PNL 6025/6 A 100
					180	5,000	10,000	10	44656018	PNL 6025/6 A 180
					280	5,000	10,000	10	44656028	PNL 6025/6 A 280
	50	6	40	A	80	5,000	10,000	10	47802761	PNL 6050/6 A 80
					100	5,000	10,000	10	44666100	PNL 6050/6 A 100
					180	5,000	10,000	10	44666180	PNL 6050/6 A 180
					280	5,000	10,000	10	44666280	PNL 6050/6 A 280
					360	5,000	10,000	10	44698509	PNL 6050/6 A 360

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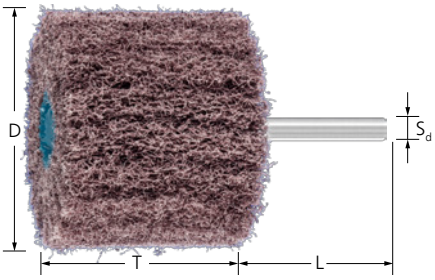
D [mm]	T [mm]	S_d [mm]	L [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
80	25	6	40	A	100	4,000	7,500	10	44658010	PNL 8025/6 A 100
					180	4,000	7,500	10	44658018	PNL 8025/6 A 180
					280	4,000	7,500	10	44658028	PNL 8025/6 A 280
	50	6	40	A	80	4,000	7,500	10	44698510	PNL 8050/6 A 80
					100	4,000	7,500	10	44658100	PNL 8050/6 A 100
					180	4,000	7,500	10	44658180	PNL 8050/6 A 180
					280	4,000	7,500	10	44658280	PNL 8050/6 A 280
					360	4,000	7,500	10	44698511	PNL 8050/6 A 360
Silicon carbide (SiC)										
40	20	6	40	SiC	100	7,500	15,000	10	44640410	PNL 4020/6 SiC 100
					180	7,500	15,000	10	44640418	PNL 4020/6 SiC 180
					280	7,500	15,000	10	44640428	PNL 4020/6 SiC 280
50	30	6	40	SiC	100	6,000	12,000	10	44640510	PNL 5030/6 SiC 100
					180	6,000	12,000	10	44640518	PNL 5030/6 SiC 180
					280	6,000	12,000	10	44640528	PNL 5030/6 SiC 280
60	50	6	40	SiC	100	5,000	10,000	10	44640610	PNL 6050/6 SiC 100
					180	5,000	10,000	10	44640618	PNL 6050/6 SiC 180
					280	5,000	10,000	10	44640628	PNL 6050/6 SiC 280
80	50	6	40	SiC	100	4,000	7,500	10	44640810	PNL 8050/6 SiC 100
					180	4,000	7,500	10	44640818	PNL 8050/6 SiC 180
					280	4,000	7,500	10	44640828	PNL 8050/6 SiC 280



PNL-HP version

The non-woven abrasive material is arranged in multiple radial flaps. An extremely long tool life is achieved through the dense packing of the flaps. It is particularly used for surface work.

Special features:
- Cool grinding and low thermal load on the workpiece.
- Particularly aggressive grinding.
- The open structure and high flexibility of the non-woven material prevents tool clogging.

D [mm]	T [mm]	S_d [mm]	L [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
Aluminium oxide A										
40	20	6	40	A	100	7,500	15,000	10	44657100	PNL-HP 4020/6A100
					180	7,500	15,000	10	44657180	PNL-HP 4020/6A180
50	30	6	40	A	100	6,000	12,000	10	44659100	PNL-HP 5030/6A100
					180	6,000	12,000	10	44659180	PNL-HP 5030/6A180
60	50	6	40	A	100	5,000	10,000	10	44661100	PNL-HP 6050/6A100
					180	5,000	10,000	10	44661180	PNL-HP 6050/6A180
80	50	6	40	A	100	4,000	7,500	10	44662100	PNL-HP 8050/6A100
					180	4,000	7,500	10	44662180	PNL-HP 8050/6A180
Silicon carbide (SiC)										
40	20	6	40	SiC	100	7,500	15,000	10	44657110	PNL-HP 4020/6SIC100
					180	7,500	15,000	10	44657118	PNL-HP 4020/6SIC180
50	30	6	40	SiC	100	6,000	12,000	10	44659110	PNL-HP 5030/6SIC100
					180	6,000	12,000	10	44659118	PNL-HP 5030/6SIC180
60	50	6	40	SiC	100	5,000	10,000	10	44661110	PNL-HP 6050/6SIC100
					180	5,000	10,000	10	44661118	PNL-HP 6050/6SIC180

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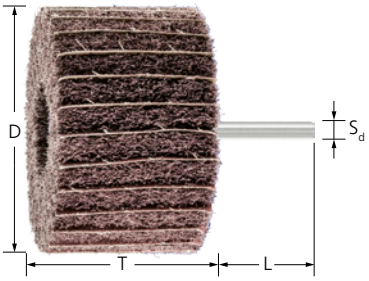
D [mm]	T [mm]	S_d [mm]	L [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
80	50	6	40	SiC	100	4,000	7,500	10	44662110	PNL-HP 8050/6SIC100
					180	4,000	7,500	10	44662118	PNL-HP 8050/6SIC180



PNZ type

The non-woven abrasive material is arranged in multiple radial flaps, with abrasive cloth interlayers. This flap structure facilitates improved stock removal and achieves a coarser surface finish. Available in aluminium oxide A and silicon carbide (SiC).

Special features:

- Highly flexible, enabling optimal adjustment to the contour.
- Cool grinding and low thermal load on the workpiece.
- The open structure and high flexibility of the non-woven material prevents tool clogging.

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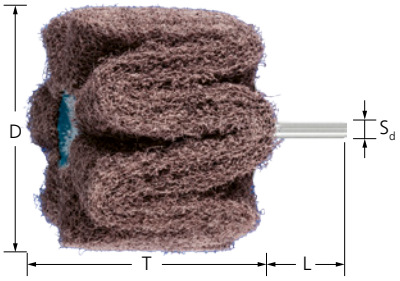
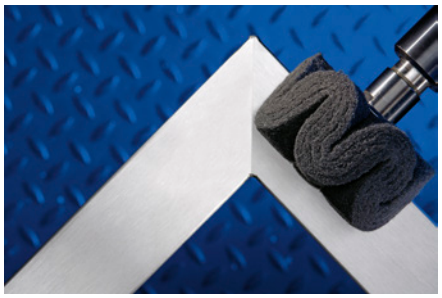
D [mm]	T [mm]	S_d [mm]	L [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
Aluminium oxide A										
30	25	6	40	A	100	10,000	20,000	10	44653080	PNZ 3025/6 A 100
					180	10,000	20,000	10	44653088	PNZ 3025/6 A 180
40	20	6	40	A	80	7,500	15,000	10	44698512	PNZ 4020/6 A 80
					100	7,500	15,000	10	44654080	PNZ 4020/6 A 100
					180	7,500	15,000	10	44654088	PNZ 4020/6 A 180
50	30	6	40	A	80	6,000	12,000	10	44698513	PNZ 5030/6 A 80
					100	6,000	12,000	10	44655080	PNZ 5030/6 A 100
					180	6,000	12,000	10	44655088	PNZ 5030/6 A 180
60	25	6	40	A	100	5,000	10,000	10	44656030	PNZ 6025/6 A 100
					180	5,000	10,000	10	44656038	PNZ 6025/6 A 180
	50	6	40	A	80	5,000	10,000	10	44698514	PNZ 6050/6 A 80
					100	5,000	10,000	10	44656080	PNZ 6050/6 A 100
					180	5,000	10,000	10	44656088	PNZ 6050/6 A 180
80	25	6	40	A	100	4,000	7,500	10	44658030	PNZ 8025/6 A 100
					180	4,000	7,500	10	44658038	PNZ 8025/6 A 180
	50	6	40	A	80	4,000	7,500	10	44698515	PNZ 8050/6 A 80
					100	4,000	7,500	10	44658080	PNZ 8050/6 A 100
					180	4,000	7,500	10	44658088	PNZ 8050/6 A 180
100	50	6	40	A	100	3,000	6,000	5	44690080	PNZ 10050/6 A 100
					180	3,000	6,000	5	44690088	PNZ 10050/6 A 180
Silicon carbide (SiC)										
80	50	6	40	SiC	100	4,000	7,500	10	*44640806*	PNZ 8050/6 SiC 100
					180	4,000	7,500	10	44640808	PNZ 8050/6 SiC 180

Discontinued product



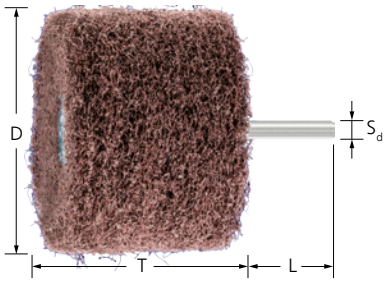
PNG type

Made of several very wavily arranged strips of non-woven abrasive material, wound around a core. The wavy structure of the non-woven abrasive material permits seamless brush matting of surfaces. Available in aluminium oxide A and silicon carbide (SiC).



Special features:
- Highly flexible, enabling optimal adjustment to the contour.
- Cool grinding and low thermal load on the workpiece.
- The open structure and high flexibility of the non-woven material prevents tool clogging.

D [mm]	T [mm]	S_d [mm]	L [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
Aluminium oxide A										
80	50	6	40	A	100	4,000	7,500	10	44646010	PNG 8050/6 A 100
					180	4,000	7,500	10	44646018	PNG 8050/6 A 180
					280	4,000	7,500	10	44646028	PNG 8050/6 A 280
100	50	6	40	A	100	3,000	6,000	5	44669100	PNG 10050/6 A 100
					180	3,000	6,000	5	44669180	PNG 10050/6 A 180
					280	3,000	6,000	5	44669280	PNG 10050/6 A 280
Silicon carbide (SiC)										
80	50	6	40	SiC	100	4,000	7,500	10	44640851	PNG 8050/6 SiC 100
					180	4,000	7,500	10	44640858	PNG 8050/6 SiC 180
					280	4,000	7,500	10	44640862	PNG 8050/6 SiC 280
100	50	6	40	SiC	100	3,000	6,000	5	44640910	PNG 10050/6 SiC 100
					180	3,000	6,000	5	44640918	PNG 10050/6 SiC 180
					280	3,000	6,000	5	44640922	PNG 10050/6 SiC 280



PNR type

The non-woven abrasive material is arranged in multiple (axial) disc layers. Since the individual non-woven discs are not interconnected, the abrasive surface adapts easily to different workpiece contours, e.g. when working on profiles or pipes. Available in aluminium oxide A.

Special features:
- Highly flexible, enabling optimal adjustment to the contour.
- Cool grinding and low thermal load on the workpiece.
- The open structure and high flexibility of the non-woven material prevents tool clogging.

D [mm]	T [mm]	S_d [mm]	L [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
25	15	2.35	40	A	100	7,600	12,300	10	*44650131*	PNR 2515/2,35 A 100
					180	7,600	12,300	10	*44650132*	PNR 2515/2,35 A 180
					280	7,600	12,300	10	*44650133*	PNR 2515/2,35 A 280
		3	40	A	100	7,600	12,300	10	44650231	PNR 2515/3 A 100
					180	7,600	12,300	10	44650232	PNR 2515/3 A 180
					280	7,600	12,300	10	44650233	PNR 2515/3 A 280

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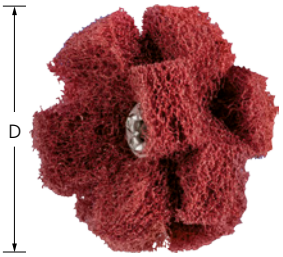
D [mm]	T [mm]	S_d [mm]	L [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
30	20	3	40	A	100	6,500	10,200	10	44650331	PNR 3020/3 A 100
					180	6,500	10,200	10	44650332	PNR 3020/3 A 180
					280	6,500	10,200	10	44650333	PNR 3020/3 A 280
60	50	6	40	A	100	5,000	10,000	10	44656100	PNR 6050/6 A 100
					180	5,000	10,000	10	44656180	PNR 6050/6 A 180
					280	5,000	10,000	10	44656280	PNR 6050/6 A 280
80	50	6	40	A	100	4,000	7,500	10	44668100	PNR 8050/6 A 100
					180	4,000	7,500	10	44668180	PNR 8050/6 A 180
					280	4,000	7,500	10	44668280	PNR 8050/6 A 280

POLINOX cross buffs

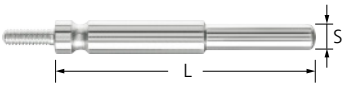


PNST type

Suitable for cleaning, deburring and fine grinding of inner surfaces and contours. Particularly suitable for hard-to-reach places such as drilled holes and indentations. Available in aluminium oxide A.

Special features:
- Highly flexible, enabling optimal adjustment to the contour. Cool grinding and low thermal load on the workpiece.
- The open structure and high flexibility of the non-woven material prevents tool clogging.
- Please order compatible arbor separately.

D [mm]	Abrasive	Grit size	Number of layers	Opt. RPM	Max. RPM		Item no.	Designation
19	A	100	2	15,000	25,100	20	44698192	PNST 19-2 A 100
		280	2	15,000	25,100	20	44698193	PNST 19-2 A 280
25	A	80	2	10,000	19,100	20	44698254	PNST 25-2 A 80
		100	2	10,000	19,100	20	44698252	PNST 25-2 A 100
		280	2	10,000	19,100	20	44698253	PNST 25-2 A 280
38	A	80	3	7,500	12,600	20	44698384	PNST 38-3 A 80
		100	3	7,500	12,600	20	44698382	PNST 38-3 A 100
		280	3	7,500	12,600	20	44698383	PNST 38-3 A 280
50	A	80	2	5,500	9,500	20	44698504	PNST 50-2 A 80
		100	2	5,500	9,500	20	44698502	PNST 50-2 A 100
		280	2	5,500	9,500	20	44698503	PNST 50-2 A 280

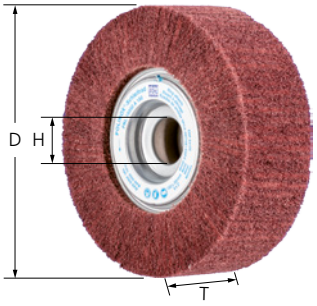


Arbor BO PNST

Arbor for POLINOX cross buffs which also enables holes and cut-outs to be reached easily.

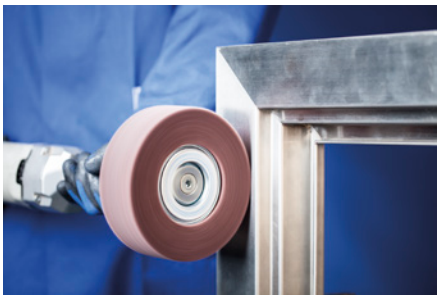
Special features:
- High economic efficiency as tool can be changed quickly.

S [mm]	L [mm]	Thread	Clamping length [mm]		Item no.	Designation
6	75	8–32 UNC	30	1	42700675	BO PNST 6-75
	125	8–32 UNC	30	1	42700685	BO PNST 6-125



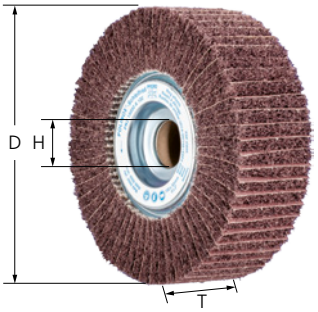
PNL type

The non-woven abrasive material with aluminium oxide A as the abrasive is arranged in multiple radial flaps. A long tool life is achieved through the dense packing of the flaps. This tool is mainly used for work on large surfaces.



Special features:
- Highly flexible, enabling optimal adjustment to the contour. Cool grinding and low thermal load on the workpiece.
- The open structure and high flexibility of the non-woven material prevents tool clogging.
- Please order compatible arbor separately.

D [mm]	T [mm]	H [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM	Suitable arbors		Item no.	Designation
150	50	25.4	A	100	2,000	4,000	FR/VR 12/25.4	1	44644111	PNL 15050/25,4 A 100
				180	2,000	4,000	FR/VR 12/25.4	1	44644119	PNL 15050/25,4 A 180
				280	2,000	4,000	FR/VR 12/25.4	1	44644129	PNL 15050/25,4 A 280
200	50	44	A	100	1,500	3,000	FR/VR 12/44.0	1	44644211	PNL 20050/44 A 100
				180	1,500	3,000	FR/VR 12/44.0	1	44644219	PNL 20050/44 A 180
				280	1,500	3,000	FR/VR 12/44.0	1	44644229	PNL 20050/44 A 280

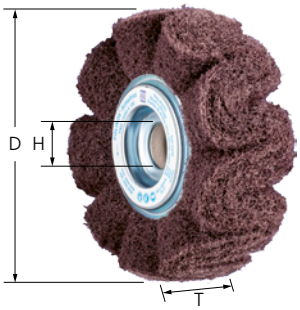


PNZ type

Grinding wheels with non-woven abrasive material with aluminium oxide A arranged in multiple radial flaps and with abrasive cloth between the flaps. This facilitates improved stock removal and achieves a coarser surface finish. The grinding wheels are mainly used for work on large surfaces.

Special features:
- Highly flexible, enabling optimal adjustment to the contour. Cool grinding and low thermal load on the workpiece.
- The open structure and high flexibility of the non-woven material prevents tool clogging.
- Please order compatible arbor separately.

D [mm]	T [mm]	H [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM	Suitable arbors		Item no.	Designation
150	50	25.4	A	100	2,000	4,000	FR/VR 12/25.4	1	44645111	PNZ 15050/25,4 A 100
				180	2,000	4,000	FR/VR 12/25.4	1	44645119	PNZ 15050/25,4 A 180
200	50	44	A	100	1,500	3,000	FR/VR 12/44.0	1	44645211	PNZ 20050/44 A 100
				180	1,500	3,000	FR/VR 12/44.0	1	44645219	PNZ 20050/44 A 180

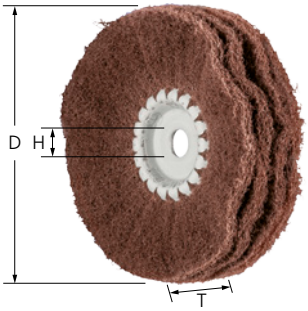


PNG type

Made of several very wavily arranged strips of non-woven abrasive material with aluminium oxide A as the abrasive, wound around a core. The wavy structure of the non-woven abrasive material permits seamless brush matting of surfaces.

Special features:
- Highly flexible, enabling optimal adjustment to the contour. Cool grinding and low thermal load on the workpiece.
- The open structure and high flexibility of the non-woven material prevents tool clogging.
- Please order compatible arbor separately.

D [mm]	T [mm]	H [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM	Suitable arbors		Item no.	Designation
150	50	25.4	A	100	2,000	4,000	FR/VR 12/25.4	1	44646111	PNG 15050/25,4 A 100
				180	2,000	4,000	FR/VR 12/25.4	1	44646119	PNG 15050/25,4 A 180
				280	2,000	4,000	FR/VR 12/25.4	1	44646129	PNG 15050/25,4 A 280
200	50	44	A	100	1,500	3,000	FR/VR 12/44.0	1	44646211	PNG 20050/44 A 100
				180	1,500	3,000	FR/VR 12/44.0	1	44646219	PNG 20050/44 A 180
				280	1,500	3,000	FR/VR 12/44.0	1	44646229	PNG 20050/44 A 280

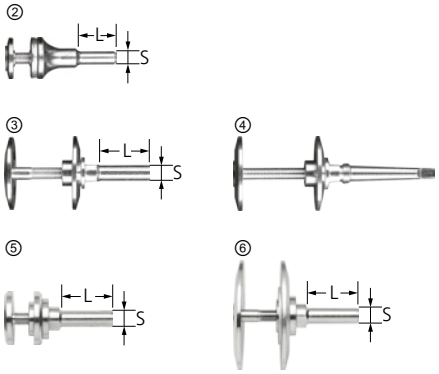


PNR type

Made of slightly wavily arranged strips of non-woven material with aluminium oxide A as the abrasive, wound around a metal core. Exceptional adaptation to contours thanks to the open arrangement and high flexibility. Enable seamless brush matting of surfaces, profiles and pipes.

Special features:
- Highly flexible, enabling optimal adjustment to the contour. Cool grinding and low thermal load on the workpiece.
- The open structure and high flexibility of the non-woven material prevents tool clogging.
- Please order compatible arbor separately.

D [mm]	T [mm]	H [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM	Suitable arbors		Item no.	Designation
100	35	10	A	180	2,500	5,500	BO 8/10	1	44647118	PNR 10035/10 A 180
				280	2,500	5,500	BO 8/10	1	44647128	PNR 10035/10 A 280
150	40	20	A	180	2,000	4,000	BO 12/20, BO MK 1/20	1	44647518	PNR 15040/20 A 180
				280	2,000	4,000	BO 12/20, BO MK 1/20	1	44647528	PNR 15040/20 A 280



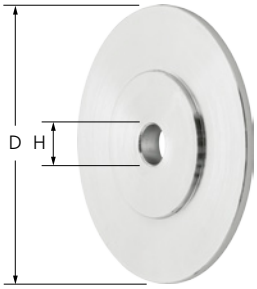
Arbor

Matching arbor for POLINOX unmounted grinding wheels.

Special features:
- High economic efficiency as tool can be changed quickly.

Image	Suitable for hole diameter [mm]	S [mm]	L [mm]	Clamping range [mm]		Item no.	Designation
②	10	8	30	6 – 20	1	42400008	BO 8/10 6-20
③	20	12	35	10 – 50	1	42400012	BO 12/20 10-50
④	20	-	-	10 – 50	1	42400062	BO MK 1/20 10-50
⑤	25.4	12	40	25 – 50	1	44601225	FR/VR 12/25,4 100-165
⑥	44	12	40	25 – 50	1	44601244	FR/VR 12/44,0 200-250

Reducing flanges for POLINOX grinding wheels RF

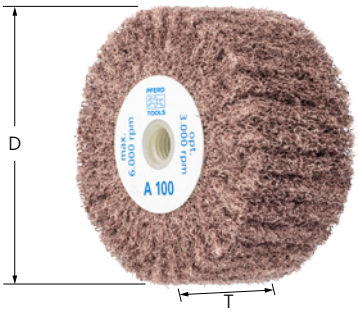


RF FR

For mounting unmounted flap wheels and POLINOX grinding wheels on drive spindles. The clamping flanges are designed to lie countersunk in the tool.

Special features:
- Can be adapted to an existing drive spindle by drilling.
- Can be used face-down very close to edges and in corners thanks to special clamping system.

Suitable for tool diameter [mm]	D [mm]	H [mm]	Max. H [mm]		Item no.	Designation
150, 165	40	12	22.2	1	44771225	RF FR 150-165 Bo. 12-22,2
200, 250	83	12	40	1	44771244	RF FR 200-250 Bo. 12-40



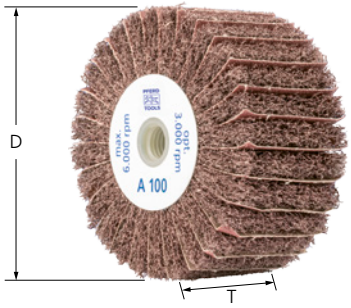
PNL type

The non-woven abrasive material with aluminium oxide A as the abrasive is arranged in multiple radial flaps. A long tool life is achieved through the dense packing of the flaps. For work on medium-sized surfaces.

Special features:

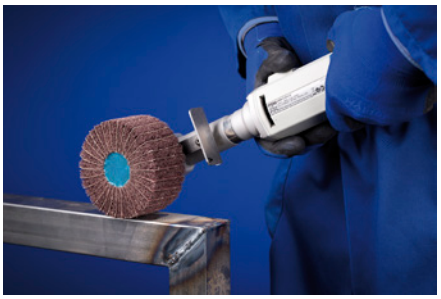
- Highly flexible, enabling optimal adjustment to the contour. Cool grinding and low thermal load on the workpiece.
- The open structure and high flexibility of the non-woven material prevents tool clogging.
- Can be mounted directly onto speed-adjustable angle grinders and fillet weld grinders without the need for additional clamping devices.

D [mm]	T [mm]	Thread	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
100	50	5/8-11	A	100	3,000	6,000	5	44642021	PNL 10050 5/8-11 A 100
				180	3,000	6,000	5	44642022	PNL 10050 5/8-11 A 180
				280	3,000	6,000	5	44642023	PNL 10050 5/8-11 A 280
		M14	A	100	3,000	6,000	5	44642001	PNL 10050 M14 A 100
				180	3,000	6,000	5	44642002	PNL 10050 M14 A 180
				280	3,000	6,000	5	44642003	PNL 10050 M14 A 280



PNZ type

The non-woven abrasive material with aluminium oxide A as the abrasive is arranged in multiple radial flaps, with abrasive cloth interlayers. This facilitates improved stock removal and achieves a coarser surface finish. For work on medium-sized surfaces.



Special features:

- Highly flexible, enabling optimal adjustment to the contour. Cool grinding and low thermal load on the workpiece.
- The open structure and high flexibility of the non-woven material prevents tool clogging.
- Can be mounted directly onto speed-adjustable angle grinders and fillet weld grinders without the need for additional clamping devices.

D [mm]	T [mm]	Thread	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
100	50	5/8-11	A	100	3,000	6,000	5	44642121	PNZ 10050 5/8-11 A 100
				180	3,000	6,000	5	44642122	PNZ 10050 5/8-11 A 180
		M14	A	100	3,000	6,000	5	44642101	PNZ 10050 M14 A 100
				180	3,000	6,000	5	44642102	PNZ 10050 M14 A 180

PNG type

Made of several very wavily arranged strips of non-woven abrasive material with aluminium oxide A as the abrasive, wound around a core. The wavy structure of the non-woven abrasive material permits seamless brush matting of surfaces. For work on medium-sized surfaces.

Special features:
- Highly flexible, enabling optimal adjustment to the contour. Cool grinding and low thermal load on the workpiece.
- The open structure and high flexibility of the non-woven material prevents tool clogging.
- Can be mounted directly onto speed-adjustable angle grinders and fillet weld grinders without the need for additional clamping devices.

D [mm]	T [mm]	Thread	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
100	50	5/8-11	A	100	3,000	6,000	5	*44642221*	PNG 10050 5/8-11 A 100
				180	3,000	6,000	5	*44642222*	PNG 10050 5/8-11 A 180
				280	3,000	6,000	5	*44642223*	PNG 10050 5/8-11 A 280
		M14	A	100	3,000	6,000	5	44642201	PNG 10050 M14 A 100
				180	3,000	6,000	5	44642202	PNG 10050 M14 A 180
				280	3,000	6,000	5	44642203	PNG 10050 M14 A 280
125	50	5/8-11	A	100	2,300	3,800	2	*44642521*	PNG 12550 5/8-11 A 100
				280	2,300	3,800	2	*44642523*	PNG 12550 5/8-11 A 280
		M14	A	100	2,300	3,800	2	44642501	PNG 12550 M14 A 100
				180	2,300	3,800	2	44642502	PNG 12550 M14 A 180
				280	2,300	3,800	2	44642503	PNG 12550 M14 A 280

POLINOX grinding discs

PNL type

The non-woven abrasive flaps with aluminium oxide A as the abrasive are stuck to a glass-fabric backing pad, meaning the discs can be used face-down. A long tool life is achieved through the dense packing of the flaps.

Special features:
- Highly flexible, enabling optimal adjustment to the contour. Cool grinding and low thermal load on the workpiece.
- The open structure and high flexibility of the non-woven material prevents tool clogging.
- For work on large surfaces using speed-adjustable angle grinders.

D [mm]	T [mm]	H [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
115	20	22.23	A	100	2,500	5,300	5	44692258	PNL 115-22,23 A 100
				180	2,500	5,300	5	44692259	PNL 115-22,23 A 180
				280	2,500	5,300	5	44692260	PNL 115-22,23 A 280
125	20	22.23	A	100	2,300	3,800	5	44692261	PNL 125-22,23 A 100
				180	2,300	3,800	5	44692262	PNL 125-22,23 A 180
				280	2,300	3,800	5	44692263	PNL 125-22,23 A 280

Discontinued product

Non-woven tools
POLINOX grinding discs

PNZ type

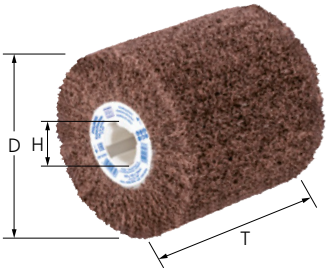
The non-woven and abrasive-cloth flaps with aluminium oxide A as the abrasive are stuck to a glass-fabric backing pad, meaning the discs can be used face-down on large surfaces. A long tool life is achieved through the dense packing of the flaps.

Special features:
- Highly flexible, enabling optimal adjustment to the contour. Cool grinding and low thermal load on the workpiece.
- The open structure and high flexibility of the non-woven material prevents tool clogging.
- For work on large surfaces using speed-adjustable angle grinders.

D [mm]	T [mm]	H [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
115	20	22.23	A	100	2,500	5,300	5	44692264	PNZ 115-22,23 A 100
				180	2,500	5,300	5	44692265	PNZ 115-22,23 A 180
125	20	22.23	A	100	2,300	3,800	5	44692266	PNZ 125-22,23 A 100
				180	2,300	3,800	5	44692267	PNZ 125-22,23 A 180

4

POLINOX grinding drums

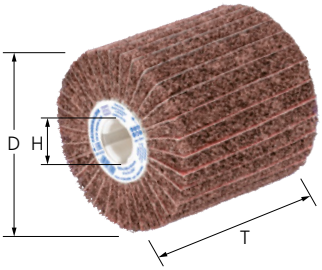


PNL-W type

For work on large surfaces. The non-woven abrasive material with aluminium oxide A as the abrasive is arranged in multiple radial flaps. A long tool life is achieved through the dense packing of the flaps.

Special features:
- Long tool life thanks to tightly packed flaps. Cool grinding and low thermal load on the workpiece.
- The open structure and high flexibility of the non-woven material prevents tool clogging.
- Suitable for all conventional keyway systems. The 19 mm hole diameter with four keyways fits all conventional drum grinders.

D [mm]	T [mm]	H [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
100	100	19	A	80	2,500	4,800	1	47801097	PNL-W 100100 A 80
				100	2,500	4,800	1	44641010	PNL-W 100100 A 100
				180	2,500	4,800	1	44641018	PNL-W 100100 A 180
				280	2,500	4,800	1	44641028	PNL-W 100100 A 280



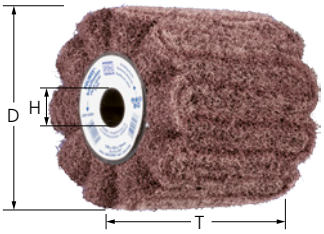
PNZ-W type

For work on large surfaces. The non-woven abrasive material with aluminium oxide A as the abrasive is arranged in multiple radial flaps. There is also abrasive cloth situated between the flaps. The flap arrangement results in a higher stock removal rate and produces a coarser surface finish.

Special features:

- Long tool life thanks to tightly packed flaps. Cool grinding and low thermal load on the workpiece.
- The open structure and high flexibility of the non-woven material prevents tool clogging.
- Suitable for all conventional keyway systems. The 19 mm hole diameter with four keyways fits all conventional drum grinders.

D [mm]	T [mm]	H [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
100	100	19	A	60	2,500	4,800	1	44641106	PNZ-W 100100 A G/60
				80	2,500	4,800	1	44641108	PNZ-W 100100 A M/80
				120	2,500	4,800	1	44641112	PNZ-W 100100 A F/120



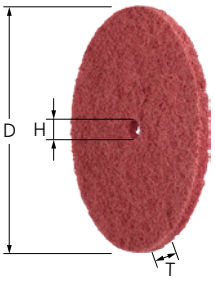
PNG-W type

For work on large surfaces. Made of several very wavily arranged strips of non-woven abrasive material with aluminium oxide A as the abrasive, wound around a core. The wavy structure of the non-woven abrasive material permits seamless brush matting of large surfaces.

Special features:

- Long tool life thanks to tight, wavy flaps. Cool grinding and low thermal load on the workpiece.
- The open structure and high flexibility of the non-woven material prevents tool clogging.
- Suitable for all conventional keyway systems. The 19 mm hole diameter with four keyways fits all conventional drum grinders.

D [mm]	T [mm]	H [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
100	100	19	A	100	2,500	4,800	1	44641201	PNG-W 100100 A 100
				180	2,500	4,800	1	44641202	PNG-W 100100 A 180
				280	2,500	4,800	1	44641203	PNG-W 100100 A 280



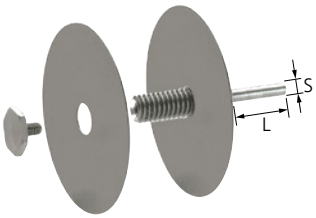
PVR type

POLINOX discs with aluminium oxide A as the abrasive are suited to flexible work on complicated workpiece contours, and are used in peripheral grinding applications. Clamp up to three discs behind one another to increase the usage width.

Special features:
- Highly flexible, enabling optimal adjustment to the contour, with very long tool life. Hard-to-reach areas can be accessed, such as deep slots and recesses.
- The open structure and high flexibility of the non-woven material prevents tool clogging.
- Please order the arbor for POLINOX discs separately.

D [mm]	T [mm]	H [mm]	Abrasive	Grit size	Max. RPM	Suitable arbors		Item no.	Designation
50	10	6	A	100	12,250	BO 6/6 3-10	10	44693050	PVR 5010-6 A 100
				280	12,250	BO 6/6 3-10	10	44693051	PVR 5010-6 A 280
75	10	6	A	100	8,150	BO 6/6 3-10	10	44693075	PVR 7510-6 A 100
				280	8,150	BO 6/6 3-10	10	44693076	PVR 7510-6 A 280
100	10	13	A	100	6,150	PVR 6/13 1-25	10	44693101	PVR 10010-13 A 100
				280	6,150	PVR 6/13 1-25	10	44693102	PVR 10010-13 A 280
125	10	13	A	100	4,900	PVR 6/13 1-25	10	44693125	PVR 12510-13 A 100
				280	4,900	PVR 6/13 1-25	10	44693126	PVR 12510-13 A 280
150	10	13	A	100	4,100	PVR 6/13 1-25	10	44693151	PVR 15010-13 A 100
				280	4,100	PVR 6/13 1-25	10	44693152	PVR 15010-13 A 280

Arbor for POLINOX discs



Arbor PVR

Arbor for POLINOX discs.

Special features:
- High economic efficiency as tool can be changed quickly.
- Use the supplied side discs with a diameter of 50 and 80 mm in order to vary the lateral flexibility.

Suitable for hole diameter [mm]	S [mm]	L [mm]	Clamping range [mm]		Item no.	Designation
13	6	35	1 – 25	1	23600506	PVR 6/13 1-25

ADB masking tape

The self-adhesive masking tape is used during finish machining with soft, flexible tools such as non-woven tools. Different grinding patterns in adjacent areas can be clearly separated.

Special features:
- The masking tape protects surfaces which have already been worked on, or which are not supposed to be worked on.
- High elasticity and tear strength.
- High edge stability. To avoid its inadvertent removal, ensure that the masking tape is only loaded in the running direction of the tool.

Length [m]	T [mm]		Item no.	Designation
25	20	1	44250130	ADB 20

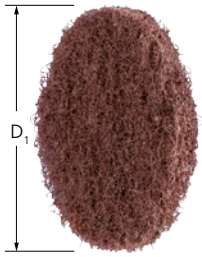
ADB INOX masking tape

The self-adhesive masking tape is used to preserve the clear separation between different grinding patterns in adjacent stainless steel areas.

Special features:
- The masking tape protects surfaces which have already been worked on, or which are not supposed to be worked on.
- Reusable and extremely high durability.
- High edge stability. To avoid its inadvertent removal, ensure that the masking tape is only loaded in the running direction of the tool.

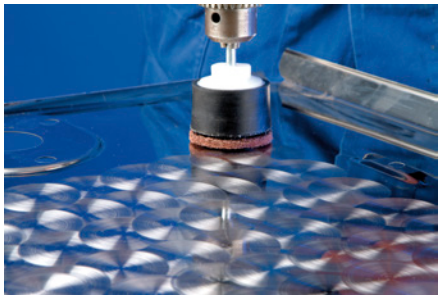
Length [m]	T [mm]		Item no.	Designation
3	50	1	44250140	ADB 50 INOX

POLINOX marbling tools



POLINOX discs for marbling tool holder MKRK

Special tool for marbling surfaces on almost any material.

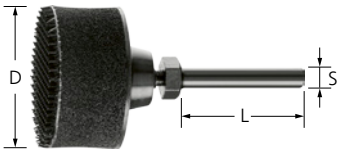


Special features:
- Highly flexible, enabling optimal adjustment to the contour. High economic efficiency due to high abrasive performance and long tool life.
- The open structure and high flexibility of the non-woven material prevents tool clogging.
- Please order matching marbling tool holder separately.

D_1 [mm]	Abrasive	Grit size	Opt. RPM	Suitable arbors		Item no.	Designation
40	A	100	600 – 1,400	MK 6/40/6	100	44637100	MKRK 40 A 100
		180	600 – 1,400	MK 6/40/6	100	44637180	MKRK 40 A 180
		280	600 – 1,400	MK 6/40/6	100	44637280	MKRK 40 A 280
50	A	100	600 – 1,400	MK 6/50/6	100	44638100	MKRK 50 A 100
		180	600 – 1,400	MK 6/50/6	100	44638180	MKRK 50 A 180
		280	600 – 1,400	MK 6/50/6	100	44638280	MKRK 50 A 280
60	A	100	600 – 1,400	MK 6/60/6	100	44639100	MKRK 60 A 100

Continued on next page

D_1 [mm]	Abrasive	Grit size	Opt. RPM	Suitable arbors		Item no.	Designation
60	A	180	600 – 1,400	MK 6/60/6	100	44639180	MKRK 60 A 180
		280	600 – 1,400	MK 6/60/6	100	44639280	MKRK 60 A 280



POLINOX marbling tool holders MK

POLINOX marbling tool holders for marbling discs. A highly elastic intermediate layer carries the hook and loop fastening system.

Special features:
- Highly flexible, enabling optimal adjustment to the contour.
- High economic efficiency due to long tool life.

D [mm]	S [mm]	L [mm]	Max. RPM	Matching tool		Item no.	Designation
40	6	40	4,700	MKRK 40	1	44604060	MK 6/40/6
50	6	40	3,800	MKRK 50	1	44605060	MK 6/50/6
60	6	40	3,200	MKRK 60	1	44606060	MK 6/60/6

4

POLIVLIES grinding discs

Flap discs PVL

Flap discs with abrasive flaps made of aluminium oxide A for general coarse to fine grinding applications in industry and professional trades.

Special features:
- High economic efficiency due to high abrasive performance and long tool life.
- Creates a consistently high surface quality over the entire tool life, as new sharp abrasive is steadily released.
- Highly flexible, enabling optimal adjustment to the contour.

D [mm]	T [mm]	H [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
115	18	22.23	A	100 G	5,000 – 5,800	13,300	5	44694101	PVL 115 A 100 G
				180 M	5,000 – 5,800	13,300	5	44694102	PVL 115 A 180 M
				240 F	5,000 – 5,800	13,300	5	44694103	PVL 115 A 240 F
125	18	22.23	A	100 G	4,600 – 5,300	12,200	5	44694111	PVL 125 A 100 G
				180 M	4,600 – 5,300	12,200	5	44694112	PVL 125 A 180 M
				240 F	4,600 – 5,300	12,200	5	44694113	PVL 125 A 240 F

with X-LOCK holder

115	18	22.23	A	100 G	5,000 – 5,800	13,300	5	44694201	PVL 115-X-LOCK A 100 G
				180 M	5,000 – 5,800	13,300	5	44694202	PVL 115-X-LOCK A 180 M
				240 F	5,000 – 5,800	13,300	5	44694203	PVL 115-X-LOCK A 240 F
125	18	22.23	A	100 G	4,600 – 5,300	12,200	5	44694211	PVL 125-X-LOCK A 100 G
				180 M	4,600 – 5,300	12,200	5	44694212	PVL 125-X-LOCK A 180 M
				240 F	4,600 – 5,300	12,200	5	44694213	PVL 125-X-LOCK A 240 F

Flap discs POLIVLIES CURVE PVL-R

The POLIVLIES CURVE flap discs with abrasive flaps made of aluminium oxide A for general coarse to fine grinding applications in industry and professional trades are patented in many countries across the globe. The CURVE version can be used on both the grinding side and on the rear side, as well as on the radius, making it particularly suitable for work on fillet welds.

Special features:
- Creates a consistently high surface quality over the entire tool life, as new sharp abrasive is steadily released.
- Highly flexible, enabling optimal adjustment to the contour.
- Particularly suitable for precise work on fillet welds thanks to the surrounding flaps.

D [mm]	H [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
115	22.23	A	100	5,800	13,300	5	44694121	PVL-R 115 A 100 G
			180	5,800	13,300	5	44694122	PVL-R 115 A 180 M
			240	5,800	13,300	5	44694123	PVL-R 115 A 240 F
125	22.23	A	100	5,300	12,200	5	44694131	PVL-R 125 A 100 G
			180	5,300	12,200	5	44694132	PVL-R 125 A 180 M
			240	5,300	12,200	5	44694133	PVL-R 125 A 240 F

Flap discs PVZ

Flap discs with abrasive flaps made of ceramic oxide grain CO-COOL and aluminium oxide A. Consistently high performance and aggressive grinding due to self-sharpening ceramic oxide grain. Active grinding additives improve the stock removal rate, prevent clogging and result in cooler grinding.

Special features:
- High economic efficiency due to high abrasive performance and long tool life.
- Creates a consistently high surface quality over the entire tool life, as new sharp abrasive is steadily released.
- Highly flexible, enabling optimal adjustment to the contour.

D [mm]	T [mm]	H [mm]	Abrasive/grit size	Opt. RPM	Max. RPM		Item no.	Designation
115	18	22.23	CO-COOL 60 / A 100 G	5,000 – 5,800	13,300	5	44695101	PVZ 115 CO-COOL 60 / A 100 G
			CO-COOL 80 / A 180 M	5,000 – 5,800	13,300	5	44695102	PVZ 115 CO-COOL 80 / A 180 M
			CO-COOL 120 / A 240 F	5,000 – 5,800	13,300	5	44695103	PVZ 115 CO-COOL 120 / A 240 F
125	18	22.23	CO-COOL 60 / A 100 G	4,600 – 5,300	12,200	5	44695111	PVZ 125 CO-COOL 60 / A 100 G
			CO-COOL 80 / A 180 M	4,600 – 5,300	12,200	5	44695112	PVZ 125 CO-COOL 80 / A 180 M
			CO-COOL 120 / A 240 F	4,600 – 5,300	12,200	5	44695113	PVZ 125 CO-COOL 120 / A 240 F

Hook and loop discs PVKR

These hook and loop discs are suited to grinding larger surfaces. The flexible system, comprising a hook and loop disc and holder, can also be used on contours. The pre-punched holes mean that they can be ideally centred on and used with various backing pads.

Special features:
- High economic efficiency due to high abrasive performance and long tool life. Highly flexible, enabling optimal adjustment to the contour.
- Creates a consistently high surface quality over the entire tool life, as new sharp abrasive is steadily released.
- Please order POLIVLIES hook and loop disc holders separately. Break out the pre-punched centring hole if required.

D_1 [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM	Suitable arbors		Item no.	Designation
115	A	100 G	3,300	5,300	PVKRH 115	10	42871306	PVKR 115-22 A 100G
		180 M	3,300	5,300	PVKRH 115	10	42871310	PVKR 115-22 A 180M
		240 F	3,300	5,300	PVKRH 115	10	42871318	PVKR 115-22 A 240F
125	A	100 G	3,000	4,850	PVKRH 125	10	42871406	PVKR 125-22 A 100G
		180 M	3,000	4,850	PVKRH 125	10	42871410	PVKR 125-22 A 180M
		240 F	3,000	4,850	PVKRH 125	10	42871418	PVKR 125-22 A 240F
180	A	100 G	2,200	3,500	PVKRH 180	10	42871606	PVKR 180-22 A 100G
		180 M	2,200	3,500	PVKRH 180	10	42871610	PVKR 180-22 A 180M
		240 F	2,200	3,500	PVKRH 180	10	42871618	PVKR 180-22 A 240F

Hook and loop disc holders PVKRH

Hook and loop disc holders PVKR

Holders for POLIVLIES hook and loop discs.

Special features:
- High economic efficiency as tool can be changed quickly.
- Enables surface finishing without visible transitions.

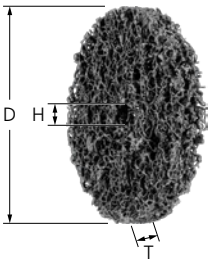
D [mm]	Thread	Max. RPM		Item no.	Designation
115	M14	13,300	1	42711154	PVKRH 115 M14
125	M14	12,200	1	42711254	PVKRH 125 M14
180	M14	8,500	1	42711784	PVKRH 180 M14

Hook and loop disc holder PVKR with centring pin

Holders for POLIVLIES hook and loop discs.

Special features:
- Enables faster central clamping.
- High economic efficiency as tool can be changed quickly.
- Enables surface finishing without visible transitions.

D [mm]	Thread	Max. RPM		Item no.	Designation
115	M14	13,300	1	42712115	PVKRH 115-22 M14
125	M14	12,200	1	42712125	PVKRH 125-22 M14
180	M14	8,500	1	42712178	PVKRH 180-22 M14

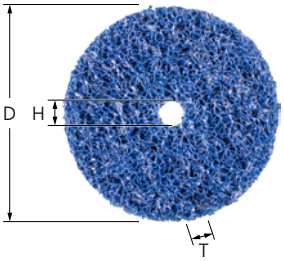


POLICLEAN wheels PCLS (standard version)

POLICLEAN is a coarsely structured, abrasive, non-woven cleaning fabric made from a special combination of synthetic fibres, resin and abrasive grain. For coarse cleaning work, such as removing paint, scale, heat discolouration, rust and adhesive residue in peripheral grinding on finer surfaces.

Special features:
- High flexibility and open structure mean optimal adjustment to contours and no clogging of the tool itself.
- Please order compatible arbor separately.

D [mm]	T [mm]	H [mm]	Opt. RPM	Max. RPM	Suitable arbors		Item no.	Designation
75	13	6	4,000 – 5,100	10,000	PCLB 6/6/13, PCLB 6/6/26, PCLB 6/6/39	6	44692075	PCLS 7513/6
100	13	13	3,000 – 3,800	7,500	PCLB 6/13/13, PCLB 6/13/26, PCLB 8/13/13, PCLB 8/13/26	4	44692100	PCLS 10013/13
150	13	13	2,000 – 2,500	5,100	PCLB 6/13/13, PCLB 6/13/26, PCLB 8/13/13, PCLB 8/13/26	4	44692150	PCLS 15013/13



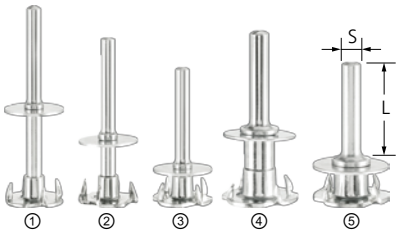
POLICLEAN wheels PCLS PLUS

POLICLEAN PLUS is a coarsely structured, aggressive, non-woven cleaning fabric made from a special combination of synthetic fibres, resin and abrasive grain, with increased tool life and optimum aggressiveness. Suitable for roughening and for coarse cleaning work such as removing paint, scale, heat discolouration, rust and adhesive residues in peripheral grinding.

Special features:
- Considerably higher stock removal rate, very good tool life and very high aggressive performance.
- High flexibility and open structure mean optimal adjustment to contours and no clogging of the tool itself.
- Please order compatible arbor separately.

D [mm]	T [mm]	H [mm]	Opt. RPM	Max. RPM	Suitable arbors		Item no.	Designation
75	13	6	4,000 – 5,100	10,000	PCLB 6/6/13, PCLB 6/6/26, PCLB 6/6/39	6	*44692076*	PCLS PLUS 7513/6
100	13	13	3,000 – 3,800	7,500	PCLB 6/13/13, PCLB 6/13/26, PCLB 8/13/13, PCLB 8/13/26	4	44692101	PCLS PLUS 10013/13
150	13	13	2,000 – 2,500	5,100	PCLB 6/13/13, PCLB 6/13/26, PCLB 8/13/13, PCLB 8/13/26	4	44692151	PCLS PLUS 15013/13

Discontinued product



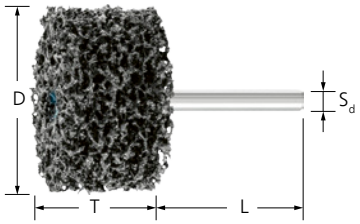
POLICLEAN arbors PCLB

Arbor for POLICLEAN wheels.

Special features:

- High economic efficiency as tool can be changed quickly. When replacing the discs, leave the arbor clamped in the tool drive.

Image	Suitable for hole diameter [mm]	S [mm]	L [mm]	Matching tool	Version		Item no.	Designation
③	6	6	40	PCLS 7513/6	Packaging, 1x	1	42706613	PCLB 6/6/13
②	6	6	40	PCLS 7513/6	Packaging, 2x	1	42706626	PCLB 6/6/26
①	6	6	40	PCLS 7513/6	Packaging, 3x	1	42706639	PCLB 6/6/39
⑤	13	6	40	PCLS 10013/13, PCLS 15013/13	Packaging, 1x	1	42706713	PCLB 6/13/13
④	13	6	40	PCLS 10013/13, PCLS 15013/13	Packaging, 2x	1	42706726	PCLB 6/13/26
⑤	13	8	40	PCLS 10013/13, PCLS 15013/13	Packaging, 1x	1	42706813	PCLB 8/13/13
④	13	8	40	PCLS 10013/13, PCLS 15013/13	Packaging, 2x	1	42706826	PCLB 8/13/26



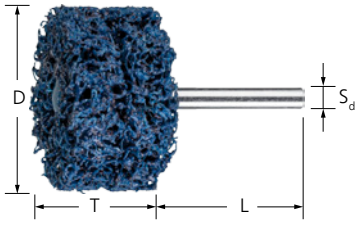
POLICLEAN mounted tools PCLZY

POLICLEAN is a coarsely structured, abrasive, non-woven cleaning fabric made from a special combination of synthetic fibres, resin and abrasive grain. For coarse cleaning work such as removing paint, scale, heat discolouration, rust and adhesive residues in peripheral grinding.

Special features:

- High flexibility and open structure mean optimal adjustment to contours and no clogging of the tool itself.
- Flexible and suitable for finer surface finishes.

D [mm]	T [mm]	S_d [mm]	L [mm]	H [mm]	Opt. RPM	Max. RPM		Item no.	Designation
50	13	6	40	6	6,000 – 7,000	15,000	5	44692251	PCLZY 5013/6
	26	6	40	6	6,000 – 7,000	15,000	5	44692252	PCLZY 5026/6
75	13	6	40	6	4,000 – 5,100	10,000	5	44692271	PCLZY 7513/6
	26	6	40	6	4,000 – 5,100	10,000	5	44692272	PCLZY 7526/6
100	13	6	40	6	3,000 – 3,800	7,500	5	44692291	PCLZY 10013/6



POLICLEAN mounted tools PCLZY PLUS

POLICLEAN PLUS is a coarsely structured, aggressive, non-woven cleaning fabric made from a special combination of synthetic fibres, resin and abrasive grain, with increased tool life and optimum aggressiveness. Suitable for roughening and for coarse cleaning work such as removing paint, scale, heat discolouration, rust and adhesive residues in peripheral grinding.

Special features:
- Considerably higher stock removal rate and a very good tool life, very aggressive.
- High flexibility and open structure mean optimal adjustment to contours and no clogging of the tool itself.

D [mm]	T [mm]	S_d [mm]	L [mm]	H [mm]	Opt. RPM	Max. RPM		Item no.	Designation
50	13	6	40	6	6,000 – 7,000	15,000	5	44692253	PCLZY PLUS 5013/6
	26	6	40	6	6,000 – 7,000	15,000	5	44692254	PCLZY PLUS 5026/6
75	13	6	40	6	4,000 – 5,100	10,000	5	44692255	PCLZY PLUS 7513/6
	26	6	40	6	4,000 – 5,100	10,000	5	44692256	PCLZY PLUS 7526/6
100	13	6	40	6	3,000 – 3,800	7,500	5	44692257	PCLZY PLUS 10013/6

POLICLEAN discs PCLD (standard version)

POLICLEAN is a coarsely structured, abrasive, non-woven cleaning fabric made from a special combination of synthetic fibres and abrasive grain. The non-woven cleaning material is glued onto a backer. For coarse cleaning work, e.g. removing paint, scale, heat discolouration, rust and adhesive residues on finer surfaces.

Special features:
- High flexibility and open structure mean optimal adjustment to contours and no clogging of the tool itself.
- Please order compatible arbor separately.

D [mm]	T [mm]	H [mm]	Opt. RPM	Max. RPM		Item no.	Designation
115	13	22.23	5,000 – 7,000	10,000	5	44692715	PCLD 115-13
125	13	22.23	5,000 – 7,000	10,000	5	44692725	PCLD 125-13

POLICLEAN discs PCLD PLUS

POLICLEAN is a coarsely structured, aggressive, non-woven cleaning fabric made from a special combination of synthetic fibres and abrasive grain. The non-woven cleaning material is glued onto a backer. For roughening and for coarse cleaning work such as removing paint, scale, heat discolouration, rust and adhesive residues.

Special features:
- Considerably higher stock removal rate, very good tool life and very high aggressive performance.
- High flexibility and open structure mean optimal adjustment to contours and no clogging of the tool itself.
- Please order compatible arbor separately.

D [mm]	T [mm]	H [mm]	Opt. RPM	Max. RPM		Item no.	Designation
100	13	16	5,000 – 7,000	10,000	5	44692711	PCLD PLUS 100-13
115	13	22.23	5,000 – 7,000	10,000	5	44692716	PCLD PLUS 115-13
125	13	22.23	5,000 – 7,000	10,000	5	44692726	PCLD PLUS 125-13

POLICLEAN drum

POLICLEAN is a coarsely structured, abrasive, non-woven cleaning fabric made from a special combination of synthetic fibres, resin and abrasive grain. For coarse cleaning work such as removing paint, scale, heat discolouration, rust and adhesive residues in peripheral grinding.

Special features:

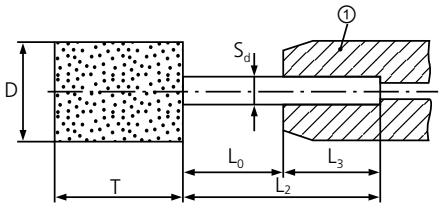
- High flexibility and open structure mean optimal adjustment to contours and no clogging of the tool itself.
- Long tool life thanks to tightly packed flaps. Cool grinding and low thermal load on the workpiece.
- Suitable for all conventional keyway systems. The 19 mm hole diameter with four keyways fits all conventional drum grinders.

D [mm]	T [mm]	H [mm]	Opt. RPM	Max. RPM		Item no.	Designation
100	100	19	2,500	4,800	1	47803369	PCLW 100100/19

Poliflex tools
General information

Explanation of the code system according to EN 12413:

D = Mounted point outer dia.
T = Mounted point width
S_d = Shank dia.
L_0 = Unsupported shank length
L_2 = Shank length
L_3 = Clamping length of shank
① = collet



Safety notes

The maximum rotational speeds for the various shank lengths and shank diameters are defined in DIN 69170 based on EN 12413. These must be adhered to in order to avoid buckling of the shank during use. Regardless of the length of the shank, the clamping length (L_3) of the shank must be at least 10 mm.
Each packaging unit of PFERD TOOLS fine grinding points contains the rotational speed specifications for the unsupported shank length (L_0) of that grinding point. Proper concentric accuracy and correct clamping of the tool drive must also be ensured.
Tables with the maximum permitted rotational speeds for the entire range of Poliflex fine grinding points are available on request.
The maximum permitted rotational speed calculated according to EN 12413 is determined by the following factors:

- Shape and dimensions of the mounted point
- Diameter of the steel shank S_d
- Unsupported shank length L_0

Wear eye protection!

Wear hearing protection!

Wear gloves!

Wear a dust mask!

Follow the safety instructions!

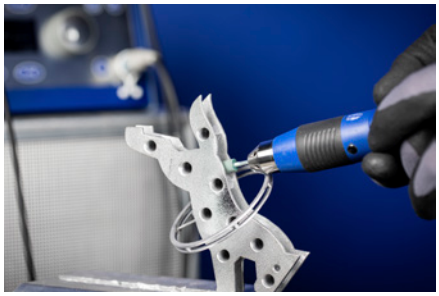
The quick way to find the perfect tool

① **Material group**
Select the material to be machined.

② **Application**
Select the application.

③ **Desired surface**
Select your desired surface.

④ **Tool bond**
After determining the application (see column ②), the suitable bond is selected in the horizontal row.

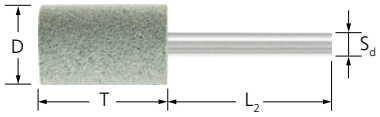


Poliflex tools
The quick way to find the perfect tool

PFERD TOOLS

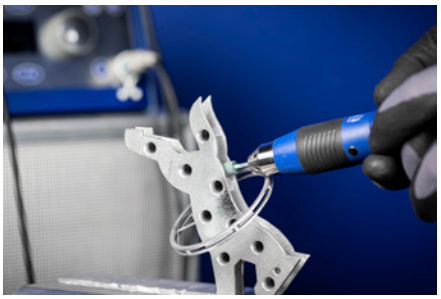
① Material group ▾		② Application ▾	③ Surface ▾		Bond ▸	Polyurethane bond			Elastomer bond				Resinoid bond
					Abrasive (grain mixtures) ▸	CN			AR	ANCN	AW	AWCN	AN
					④ Designation/bond ▸	PUR			GR	GHR	LR	LHR	TX
						W (Soft)	MH (Medium-hard)	STRUC					
					Recommended cutting speed ▸	10–12 m/s	10–15 m/s	5–10 m/s	10–12 m/s	20–25 m/s	15–20 m/s	30–40 m/s	20–25 m/s
Steel, cast steel	Steels up to 1.200 N/mm² (< 38 HRC)	Construction steels, carbon steels, tool steels, non-alloyed steels, case-hardened steels, tempering steels, cast steel	Surface	Matt		○	●		○				
				Shiny					●		○		
			Edge	Matt			○		○				●
				Shiny						●		○	
	Hardened, heat-treated steels over 1.200 N/mm² (> 38 HRC)	Tool steels, tempering steels, alloyed steels, alloyed cast steel	Surface	Matt		○	●		○				
				Shiny					○		●		
			Edge	Matt			○						●
				Shiny						○		●	
Stainless steel (INOX)	Rust and acid-resistant steels	Austenitic and ferritic stainless steels	Surface	Matt		●	○						
				Shiny					●		○		
			Edge	Matt			○						●
				Shiny						●	○		
			Universal	Structured		○	○	●					
Non-ferrous metals	Soft non-ferrous metals, non-ferrous metals	Aluminium alloys, brass, copper, zinc	Surface	Matt		●	○						○
				Shiny					○		●		
			Edge	Matt						○			●
				Shiny					○		●		
	Hard non-ferrous metals	Bronze, titanium, titanium alloys, hard aluminium alloys (high Si content)	Surface	Matt			○						●
				Shiny					○	●			
			Edge	Matt						○			●
				Shiny						○		●	
	High-temperature-resistant materials	Nickel-based and cobaltbased alloys (engine and turbine construction)	Surface	Matt			○						●
				Shiny					●	○			
			Edge	Matt			○			○			●
				Shiny						○		●	

● = highly suitable ○ = suitable



Poliflex fine grinding points PF ZY PUR

The PUR bond is manufactured with green silicon carbide (SiC). It is homogeneously interspersed with abrasive grain and very soft. Grinding point in cylindrical shape, for fine grinding of small surfaces.



Special features:
- Highly flexible, enabling optimal adjustment to the contour.
- Cool and very gentle grinding thanks to open structure and elastic bond.
- Produces a fine, matt surface finish.

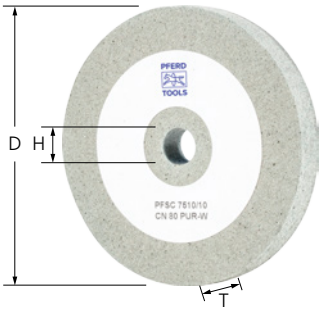
D [mm]	T [mm]	S_d [mm]	L_2 [mm]	Bond	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
PUR-W											
8	12	3	30	PUR-W	SiC	80	24,000	35,800	10	41291008	PF ZY 0812/3 CN 80 PUR-W
						150	24,000	35,800	10	41291015	PF ZY 0812/3 CN 150 PUR-W
10	25	6	40	PUR-W	SiC	80	19,000	28,600	10	41291208	PF ZY 1025/6 CN 80 PUR-W
						150	19,000	28,600	10	41291215	PF ZY 1025/6 CN 150 PUR-W
15	30	6	40	PUR-W	SiC	80	12,500	19,000	10	41291408	PF ZY 1530/6 CN 80 PUR-W
						150	12,500	19,000	10	41291415	PF ZY 1530/6 CN 150 PUR-W
20	30	6	40	PUR-W	SiC	80	9,500	14,300	10	41293108	PF ZY 2030/6 CN 80 PUR-W
						150	9,500	14,300	10	41293115	PF ZY 2030/6 CN 150 PUR-W
25	30	6	40	PUR-W	SiC	80	7,500	11,400	10	41293008	PF ZY 2530/6 CN 80 PUR-W
						150	7,500	11,400	10	41293015	PF ZY 2530/6 CN 150 PUR-W
PUR-MH											
8	12	3	30	PUR-MH	SiC	150	24,000	35,800	10	41291115	PF ZY 0812/3 CN 150 PUR-MH
						220	24,000	35,800	10	41291122	PF ZY 0812/3 CN 220 PUR-MH
10	25	6	40	PUR-MH	SiC	150	19,000	28,600	10	41291315	PF ZY 1025/6 CN 150 PUR-MH
						220	19,000	28,600	10	41291322	PF ZY 1025/6 CN 220 PUR-MH
15	30	6	40	PUR-MH	SiC	80	12,500	19,000	10	41291508	PF ZY 1530/6 CN 80 PUR-MH
						150	12,500	19,000	10	41291515	PF ZY 1530/6 CN 150 PUR-MH
						220	12,500	19,000	10	41291522	PF ZY 1530/6 CN 220 PUR-MH
20	30	6	40	PUR-MH	SiC	80	9,500	14,300	10	41293208	PF ZY 2030/6 CN 80 PUR-MH
						150	9,500	14,300	10	41293215	PF ZY 2030/6 CN 150 PUR-MH
32	32	6	40	PUR-MH	SiC	80	6,000	8,900	5	41293408	PF ZY 3232/6 CN 80 PUR-MH
						150	6,000	8,900	5	41293415	PF ZY 3232/6 CN 150 PUR-MH

Poliflex discs PFD PUR for speed-adjustable angle grinders

The PUR bond is manufactured with green silicon carbide (SiC). It is homogeneously interspersed with abrasive grain and very soft. For fine face-down grinding on large surfaces.

Special features:
- Highly flexible, enabling optimal adjustment to the contour.
- Cool and very gentle grinding thanks to open structure and elastic bond.
- Produces a fine, matt surface finish.

D [mm]	T [mm]	H [mm]	Version	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
115	14	22.23	medium-hard	SiC	60	2,400	5,300	5	41130106	PFD 115-22 CN 60 PUR-MH
			soft	SiC	60	2,400	5,300	5	41130006	PFD 115-22 CN 60 PUR-W
			medium-hard	SiC	150	2,400	5,300	5	41130115	PFD 115-22 CN 150 PUR-MH
			soft	SiC	150	2,400	5,300	5	41130015	PFD 115-22 CN 150 PUR-W

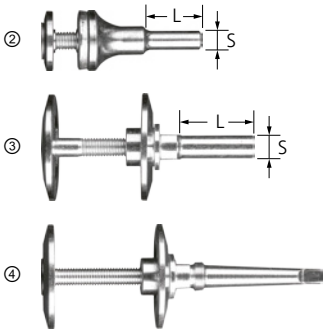


Poliflex fine grinding discs PF SC PUR

The PUR bond is manufactured with green silicon carbide (SiC). It is homogeneously interspersed with abrasive grain and very soft. For fine peripheral grinding on medium-sized to large surfaces.

Special features:
- Highly flexible, enabling optimal adjustment to the contour. Produces a fine, matt surface finish.
- Cool and very gentle grinding thanks to open structure and elastic bond.
- Please order compatible arbor separately.

D [mm]	T [mm]	H [mm]	Abra-sive	Grit size	Opt. RPM	Max. RPM	Suitable arbors		Item no.	Designation
75	10	10	SiC	80	2,500	3,800	BO 8/10	5	41105408	PF SC 7510/10 CN 80 PUR-W
125	20	20	SiC	80	1,500	2,300	BO 12/20, BO MK 1/20	1	41110408	PF SC 12520/20 CN 80 PUR-W
150	25	20	SiC	80	1,200	1,900	BO 12/20, BO MK 1/20	1	41112408	PF SC 15025/20 CN 80 PUR-W
				150	1,200	1,900	BO 12/20, BO MK 1/20	1	41112415	PF SC 15025/20 CN 150 PUR-W



Arbor BO

Matching arbor for Poliflex fine grinding discs.

Special features:
- High economic efficiency as tool can be changed quickly.

Image	Suitable for hole diameter [mm]	S [mm]	L [mm]	Clamping range [mm]		Item no.	Designation
②	10	8	30	6 – 20	1	42400008	BO 8/10 6-20
③	20	12	35	10 – 50	1	42400012	BO 12/20 10-50
④	20	-	-	10 – 50	1	42400062	BO MK 1/20 10-50

Poliflex blocks PUR

The PUR bond is manufactured with green silicon carbide (SiC). It is homogeneously interspersed with abrasive grain and very soft. The rhomboidal shape enables work to be effortlessly performed on hard-to-reach places such as corners.

Special features:
- Cool and very gentle grinding thanks to open structure and elastic bond.
- Produces a fine, matt surface finish.
- With a diamond cut-off wheel, the size can be adapted to the respective application as required.

L [mm]	B [mm]	H [mm]	Abrasive	Grit size		Item no.	Designation
115	60	30	SiC	60	5	41020060	PFB 1156030 CU 60 PUR
				120	5	41020120	PFB 1156030 CU 120 PUR
				240	5	41020240	PFB 1156030 CU 240 PUR

Poliflex block set PSO PUR

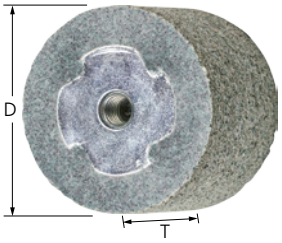
Set of different Poliflex blocks PUR. The PUR bond is manufactured with green silicon carbide (SiC). It is homogeneously interspersed with abrasive grain and very soft.

Contents:
Nine pieces, three each of the following Poliflex blocks: grit size 60 (coarse), 120 (medium) and 240 (fine).

Special features:
- Cool and very gentle grinding thanks to open structure and elastic bond.
- Produces a fine, matt surface finish.
- Promotional display box.

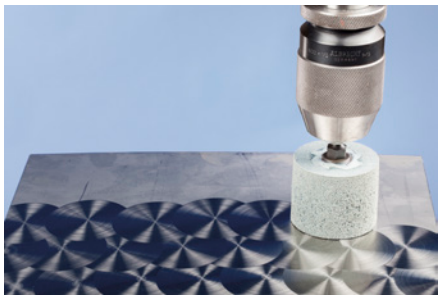
L [mm]	B [mm]	H [mm]		Item no.	Designation
285	150	60	1	41090002	Set PSO 11560

Poliflex tools
PUR bond



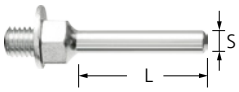
Poliflex marbling tool holders PFZY PUR

The PUR bond is manufactured with green silicon carbide (SiC). It is homogeneously interspersed with abrasive grain and very soft. Tools with female thread M8 for marbling surfaces.



Special features:
- Produces a fine, matt surface finish.
- Cool and very gentle grinding thanks to open structure and elastic bond.
- Please order compatible arbor separately.

D [mm]	T [mm]	Thread	Abrasive	Grit size	Max. RPM	Suitable arbors		Item no.	Designation
50	40	M8	SiC	30	5,700	BO 6/8	5	41289403	PF ZY 5040 M8 CN 30 PUR
				80	5,700	BO 6/8	5	41289408	PF ZY 5040 M8 CN 80 PUR



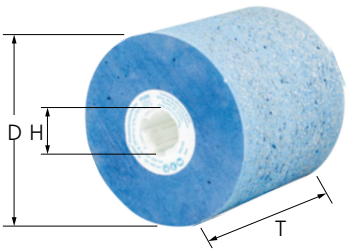
Arbor BO

Matching arbor for Poliflex marbling tool holders.

Special features:
- High economic efficiency as tool can be changed quickly.
- Durable thanks to high-quality material.
- Enables faster central clamping.

S [mm]	L [mm]	Thread [mm]		Item no.	Designation
6	40	M8	1	23600608	BO 6/8

PU-STRUC bond

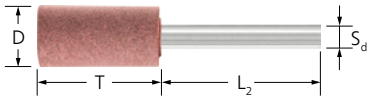


Poliflex texturing rollers PF W PU-STRUC

Structuring tools made of grey silicon carbide, homogeneously interspersed with a high proportion of abrasive grain. Ideal for work on components made of stainless steel (INOX). For structuring large surfaces.

Special features:
- Highly flexible, enabling optimal adjustment to the contour.
- Cool and gentle grinding thanks to open structure and elastic bond.
- Quick and effective retouching of imperfections and transitions to directional textures.

D [mm]	T [mm]	H [mm]	Abrasive	Opt. RPM	Max. RPM		Item no.	Designation
100	100	19	SiC	1,000 – 1,900	2,800	1	41030016	PF W 100100/19 CU 16 PU-STRUC

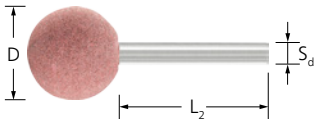


Poliflex fine grinding points PF ZY GR

This bond is a soft elastomer-based bond with pink aluminium oxide. Suitable for use on surfaces. Grinding point in cylindrical shape, for fine grinding of small surfaces.

Special features:
- Soft grinding thanks to soft, elastic bond.
- Produces a fine, shiny surface finish.

D [mm]	T [mm]	S_d [mm]	L_2 [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
4	8	3	30	A	120	47,500	71,600	10	41200112	PF ZY 0408/3 AR 120 GR
6	10	3	30	A	120	32,000	47,700	10	41200512	PF ZY 0610/3 AR 120 GR
8	8	3	30	A	120	24,000	35,800	10	41201112	PF ZY 0808/3 AR 120 GR
					220	24,000	35,800	10	41201120	PF ZY 0808/3 AR 220 GR
	12	3	30	A	120	24,000	35,800	10	41204112	PF ZY 0812/3 AR 120 GR
					220	24,000	35,800	10	41204120	PF ZY 0812/3 AR 220 GR
10	6	3	30	A	120	19,000	28,600	10	41258112	PF ZY 1006/3 AR 120 GR
	10	3	30	A	120	19,000	28,600	10	41207112	PF ZY 1010/3 AR 120 GR
					220	19,000	28,600	10	41207120	PF ZY 1010/3 AR 220 GR
	15	3	30	A	120	19,000	28,600	10	41213112	PF ZY 1015/3 AR 120 GR
					220	19,000	28,600	10	41213120	PF ZY 1015/3 AR 220 GR
12	8	3	30	A	120	16,000	23,800	10	41264112	PF ZY 1208/3 AR 120 GR
	12	3	30	A	120	16,000	23,800	10	41222112	PF ZY 1212/3 AR 120 GR
	20	3	30	A	120	16,000	23,800	10	41228112	PF ZY 1220/3 AR 120 GR
10	10	6	40	A	120	19,000	28,600	10	41210112	PF ZY 1010/6 AR 120 GR
	15	6	40	A	120	19,000	28,600	10	41216112	PF ZY 1015/6 AR 120 GR
					220	19,000	28,600	10	41216120	PF ZY 1015/6 AR 220 GR
	25	6	40	A	80	19,000	28,600	10	41219108	PF ZY 1025/6 AR 80 GR
					120	19,000	28,600	10	41219112	PF ZY 1025/6 AR 120 GR
					220	19,000	28,600	10	41219120	PF ZY 1025/6 AR 220 GR
12	8	6	40	A	120	16,000	23,800	10	41267112	PF ZY 1208/6 AR 120 GR
	12	6	40	A	120	16,000	23,800	10	41225112	PF ZY 1212/6 AR 120 GR
	20	6	40	A	120	16,000	23,800	10	41231112	PF ZY 1220/6 AR 120 GR
					220	16,000	23,800	10	41231120	PF ZY 1220/6 AR 220 GR
15	15	6	40	A	120	12,500	19,000	10	41234112	PF ZY 1515/6 AR 120 GR
	25	6	40	A	120	12,500	19,000	10	41237112	PF ZY 1525/6 AR 120 GR
					220	12,500	19,000	10	41237120	PF ZY 1525/6 AR 220 GR
	30	6	40	A	120	12,500	19,000	10	41240112	PF ZY 1530/6 AR 120 GR
					220	12,500	19,000	10	41240120	PF ZY 1530/6 AR 220 GR
20	12	6	40	A	120	9,500	14,300	10	41273112	PF ZY 2012/6 AR 120 GR
	20	6	40	A	120	9,500	14,300	10	41243112	PF ZY 2020/6 AR 120 GR
					220	9,500	14,300	10	41243120	PF ZY 2020/6 AR 220 GR
	30	6	40	A	80	9,500	14,300	10	41246108	PF ZY 2030/6 AR 80 GR
					120	9,500	14,300	10	41246112	PF ZY 2030/6 AR 120 GR
25	15	6	40	A	120	7,500	14,300	10	41276112	PF ZY 2515/6 AR 120 GR
	25	6	40	A	120	7,500	11,400	10	41249112	PF ZY 2525/6 AR 120 GR
					220	7,500	11,400	10	41249120	PF ZY 2525/6 AR 220 GR
30	20	6	40	A	120	6,500	9,500	5	41279112	PF ZY 3020/6 AR 120 GR
	30	6	40	A	120	6,500	9,500	5	41252112	PF ZY 3030/6 AR 120 GR
40	25	8	40	A	120	4,500	9,500	5	41282112	PF ZY 4025/8 AR 120 GR

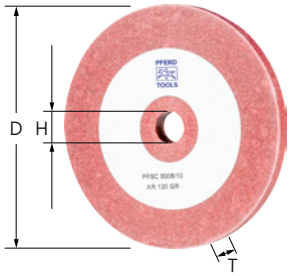


Poliflex fine grinding points PF KU GR

This bond is a soft elastomer-based bond with pink aluminium oxide. Suitable for use on surfaces. Grinding point in ball shape for fine grinding inner radii, contours and transitions.

Special features:
- Soft grinding thanks to soft, elastic bond.
- Produces a fine, shiny surface finish.

D [mm]	S_d [mm]	L_2 [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
8	3	30	A	120	24,000	35,800	10	41401112	PF KU 08/3 AR 120 GR
10	3	30	A	120	19,000	28,600	10	41407112	PF KU 10/3 AR 120 GR
12	6	40	A	120	16,000	23,800	10	41425112	PF KU 12/6 AR 120 GR
15	6	40	A	120	12,500	19,000	10	41434112	PF KU 15/6 AR 120 GR
20	6	40	A	120	9,500	14,300	10	41443112	PF KU 20/6 AR 120 GR
25	6	40	A	120	7,500	11,400	10	41449112	PF KU 25/6 AR 120 GR
30	6	40	A	120	6,500	9,500	5	41452112	PF KU 30/6 AR 120 GR



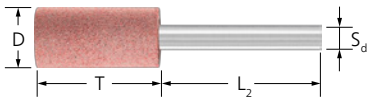
Poliflex fine grinding discs PF SC GR

A soft elastomer-based bond with pink aluminium oxide. Suitable for use on surfaces. Ideally suited to very fine grinding on all metallic materials, e.g. in tool- and mould-making, in the dental sector and in the jewellery industry.

Special features:
- Soft grinding thanks to soft, elastic bond.
- Due to their construction, the small diameter variants are particularly suited to work on tight and hard-to-reach places.

D [mm]	T [mm]	H [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM	Suitable arbors		Item no.	Designation
25	3	2	A	120	7,500	11,400	BO 2,3/1-6, BO 3/1,6	100	41982401	PF SC 2503/2 AR 120 GR
30	6	6	A	120	6,300	9,500	BO 6/6 3-10	5	41100112	PF SC 3006/6 AR 120 GR
50	6	6	A	120	3,800	5,700	BO 6/6 3-10	5	41102112	PF SC 5006/6 AR 120 GR
80	6	10	A	120	2,400	3,500	BO 8/10	5	41106112	PF SC 8006/10 AR 120 GR
100	20	10	A	120	1,900	2,800	BO 8/10	1	41109112	PF SC 10020/10 AR 120 GR

GHR bond

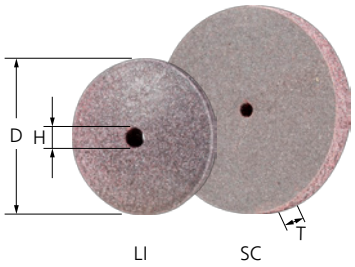


Poliflex fine grinding points PF ZY GHR

A soft yet sturdy elastomer-based bond. Suitable for use on edges. Grinding point in cylindrical shape, for fine grinding of small surfaces.

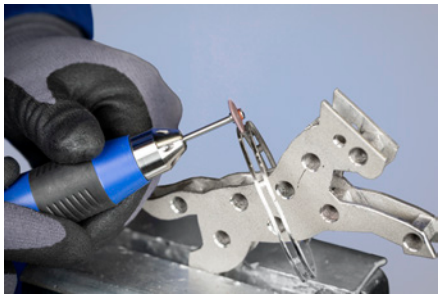
Special features:
- Softer grinding with a longer tool life.
- Produces a fine, shiny surface finish.

D [mm]	T [mm]	S_d [mm]	L_2 [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
4	8	3	30	A	400	100,000	143,200	10	41200540	PF ZY 0408/3 AW 400 GHR
8	12	3	30	A/SiC	120	60,000	71,600	10	41204512	PF ZY 0812/3 ANCN 120 GHR
				A	400	60,000	71,600	10	41204540	PF ZY 0812/3 AW 400 GHR
10	10	3	30	A/SiC	120	45,000	57,200	10	41207512	PF ZY 1010/3 ANCN 120 GHR
	15	3	30	A/SiC	120	45,000	52,000	10	41213512	PF ZY 1015/3 ANCN 120 GHR
	25	6	40	A/SiC	120	45,000	57,200	10	41219512	PF ZY 1025/6 ANCN 120 GHR
				A	400	45,000	57,200	10	41219540	PF ZY 1025/6 AW 400 GHR
15	30	6	40	A/SiC	46	32,000	47,700	10	41240504	PF ZY 1530/6 ANCN 46 GHR
					80	32,000	47,700	10	41240508	PF ZY 1530/6 ANCN 80 GHR
20	30	6	40	A/SiC	46	24,000	28,600	10	41246504	PF ZY 2030/6 ANCN 46 GHR
25	25	6	40	A/SiC	46	19,000	22,900	10	41249504	PF ZY 2525/6 ANCN 46 GHR



Poliflex fine grinding discs/lenses PF SC/LI GHR

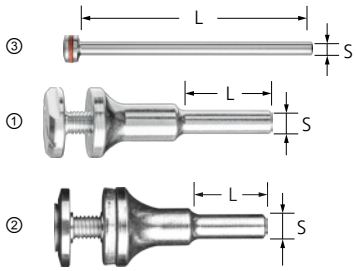
A soft yet sturdy bond with an abrasive mixture comprising aluminium oxide and silicon carbide (SiC), elastomer-based. Suitable for use on edges. Ideally suited to very fine grinding on all metallic materials, e.g. in tool and mould-making, in the dental sector and in the jewellery industry.



Special features:
- Softer grinding with a longer tool life.
- Produces a fine, shiny surface finish.
- Due to their construction, the small diameter variants are particularly suited to work on tight and hard-to-reach places.

D [mm]	T [mm]	H [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM	Suitable arbors		Item no.	Designation
Disc shape										
25	3	2	SiC	220	7,500	11,400	BO 2,3/1-6, BO 3/1,6	100	41982510	PF SC 2503/2 CU 220 GHR
Lens shape										
16	4	2	SiC	220	12,000	17,900	BO 2,3/1-6, BO 3/1,6	100	41962020	PF LI 1604/2 CU 220 GHR
24	3	2	SiC	220	8,000	12,000	BO 2,3/1-6, BO 3/1,6	100	41963010	PF LI 2403/2 CU 220 GHR

Arbor BO

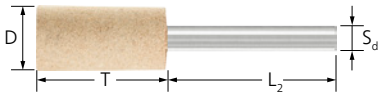


Arbor BO

Matching arbor for POLIFLEX fine grinding discs and lenses.

Special features:
- High economic efficiency as tool can be changed quickly.

Image	Suitable for hole diameter [mm]	S [mm]	L [mm]	Clamping range [mm]		Item no.	Designation
③	1,6	2.34	43	1 – 5	10	42460023	BO 2,3/1,6 1-5
		3	43	1 – 5	10	42460030	BO 3/1,6 1-5
①	6	6	25	3 – 10	1	42400006	BO 6/6 3-10
②	10	8	30	6 – 20	1	42400008	BO 8/10 6-20



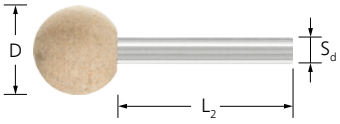
Poliflex fine grinding points PF ZY LR

A hard, sturdy bond with white aluminium oxide. Suitable for use on surfaces. Grinding point in cylindrical shape, for fine grinding of small surfaces.

Special features:
- Produces a fine, shiny surface finish.
- High economic efficiency due to high abrasive performance and long tool life.

D [mm]	T [mm]	S_d [mm]	L_2 [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
4	8	3	30	A	120	95,000	143,200	10	41200212	PF ZY 0408/3 AW 120 LR
					400	95,000	143,200	10	41200240	PF ZY 0408/3 AW 400 LR
6	10	3	30	A	120	64,000	95,400	10	41200612	PF ZY 0610/3 AW 120 LR
8	8	3	30	A	120	47,500	71,600	10	41201212	PF ZY 0808/3 AW 120 LR
	12	3	30	A	120	47,500	71,600	10	41204212	PF ZY 0812/3 AW 120 LR
					220	47,500	71,600	10	41204220	PF ZY 0812/3 AW 220 LR
					400	47,500	71,600	10	41204240	PF ZY 0812/3 AW 400 LR
10	10	3	30	A	120	38,000	57,200	10	41207212	PF ZY 1010/3 AW 120 LR
					220	38,000	57,200	10	41207220	PF ZY 1010/3 AW 220 LR
	15	3	30	A	120	38,000	57,200	10	41213212	PF ZY 1015/3 AW 120 LR
12	12	3	30	A	120	32,000	47,700	10	41222212	PF ZY 1212/3 AW 120 LR
	20	3	30	A	120	32,000	47,700	10	41228212	PF ZY 1220/3 AW 120 LR
10	10	6	40	A	120	38,000	57,200	10	41210212	PF ZY 1010/6 AW 120 LR
	15	6	40	A	120	38,000	57,200	10	41216212	PF ZY 1015/6 AW 120 LR
	25	6	40	A	120	38,000	57,200	10	41219212	PF ZY 1025/6 AW 120 LR
					220	38,000	57,200	10	41219220	PF ZY 1025/6 AW 220 LR
12	12	6	40	A	120	32,000	47,700	10	41225212	PF ZY 1212/6 AW 120 LR
	20	6	40	A	120	32,000	47,700	10	41231212	PF ZY 1220/6 AW 120 LR
15	15	6	40	A	120	25,500	38,100	10	41234212	PF ZY 1515/6 AW 120 LR
	25	6	40	A	120	25,500	38,100	10	41237212	PF ZY 1525/6 AW 120 LR
	30	6	40	A	120	25,500	38,100	10	41240212	PF ZY 1530/6 AW 120 LR
20	20	6	40	A	120	19,000	28,600	10	41243212	PF ZY 2020/6 AW 120 LR
	30	6	40	A	120	19,000	28,600	10	41246212	PF ZY 2030/6 AW 120 LR
25	25	6	40	A	120	15,000	22,900	10	41249212	PF ZY 2525/6 AW 120 LR
30	30	6	40	A	120	12,500	19,000	5	41252212	PF ZY 3030/6 AW 120 LR

Poliflex tools
LR bond



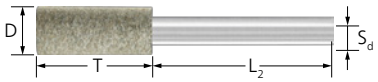
Poliflex fine grinding points PF KU LR

A hard, sturdy bond with white aluminium oxide. Suitable for use on surfaces. Grinding point in ball shape for fine grinding inner radii, contours and transitions.

Special features:
- Produces a fine, shiny surface finish.
- High economic efficiency due to high abrasive performance and long tool life.

D [mm]	S_d [mm]	L_2 [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
8	3	30	A	120	47,000	71,600	10	41401212	PF KU 08/3 AW 120 LR
10	3	30	A	120	38,000	57,200	10	41410212	PF KU 10/3 AW 120 LR
15	6	40	A	120	29,500	38,100	10	41434212	PF KU 15/6 AW 120 LR
20	6	40	A	120	19,000	28,600	10	41443212	PF KU 20/6 AW 120 LR

LHR bond

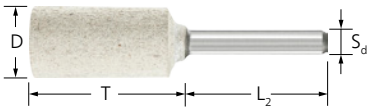


Poliflex fine grinding points PF ZY LHR

A hard, sturdy bond. Suitable for use on edges. Grinding point in cylindrical shape, for fine grinding of small surfaces.

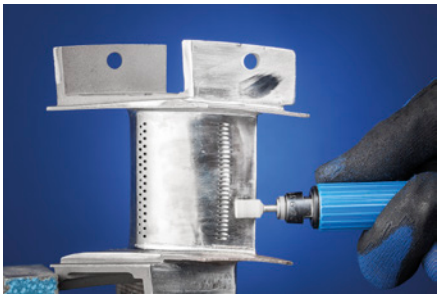
Special features:
- Produces a fine, shiny surface finish.
- High economic efficiency due to high abrasive performance and long tool life.

D [mm]	T [mm]	S_d [mm]	L_2 [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
8	12	3	30	A	120	47,000	76,700	10	41204312	PF ZY 0812/3 AW 120 LHR
10	25	6	40	A/SiC	60	75,000	83,200	10	41219306	PF ZY 1025/6 AWCN 60 LHR
				A	120	75,000	83,200	10	41219312	PF ZY 1025/6 AW 120 LHR
20	20	6	40	A	120	38,000	47,700	10	41243312	PF ZY 2020/6 AW 120 LHR



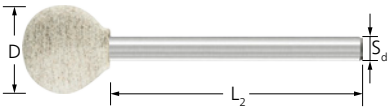
Poliflex fine grinding points PF ZY TX

Very hard, sturdy bond made of regular aluminium oxide with textile fabric inlays. Suitable for use on edges. Grinding point in cylindrical shape, for fine grinding of small surfaces.



Special features:
- Produces a fine, matt surface finish.
- High economic efficiency due to high abrasive performance and long tool life.

D [mm]	T [mm]	S_d [mm]	L_2 [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
6	10	3	30	A	80	63,000	95,400	10	41200708	PF ZY 0610/3 AN 80 TX
					120	63,000	95,400	10	41200712	PF ZY 0610/3 AN 120 TX
8	12	3	30	A	80	47,500	71,600	10	41204608	PF ZY 0812/3 AN 80 TX
					120	47,500	71,600	10	41204612	PF ZY 0812/3 AN 120 TX
10	25	6	40	A	80	38,000	57,200	10	41219608	PF ZY 1025/6 AN 80 TX
					120	38,000	57,200	10	41219612	PF ZY 1025/6 AN 120 TX
16	32	6	40	A	80	24,000	35,800	10	41241608	PF ZY 1632/6 AN 80 TX
					120	24,000	35,800	10	41241612	PF ZY 1632/6 AN 120 TX
19	2.5	6	40	A	80	20,000	30,100	10	47000886	PF ZY 192,5/6 AN 80 TX
20	32	6	40	A	80	19,000	28,600	10	41247608	PF ZY 2032/6 AN 80 TX
					120	19,000	28,600	10	41247612	PF ZY 2032/6 AN 120 TX
25	32	6	40	A	80	15,000	22,900	10	41250608	PF ZY 2532/6 AN 80 TX
					120	15,000	22,900	10	41250612	PF ZY 2532/6 AN 120 TX



Poliflex fine grinding points PF KU TX

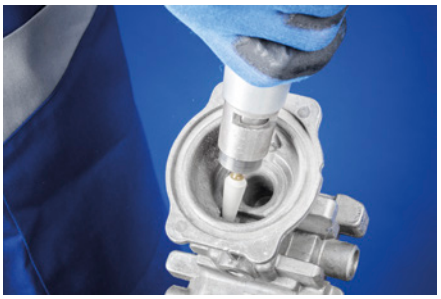
Very hard, sturdy bond made of regular aluminium oxide with textile fabric inlays. Suitable for use on edges. Grinding point in ball shape for fine grinding inner radii, contours and transitions.

Special features:
- Produces a fine, matt surface finish.
- High economic efficiency due to high abrasive performance and long tool life.

D [mm]	S_d [mm]	L_2 [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
6	3	30	A	80	63,000	95,400	10	41400608	PF KU 06/3 AN 80 TX
				120	63,000	95,400	10	41400612	PF KU 06/3 AN 120 TX
8	3	30	A	120	47,500	71,600	10	41401612	PF KU 08/3 AN 120 TX
10	3	30	A	120	38,000	57,200	10	41407612	PF KU 10/3 AN 120 TX

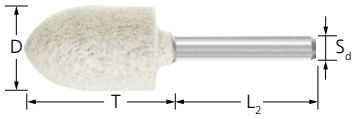
Poliflex fine grinding points PF KE TX

Very hard, sturdy bond made of regular aluminium oxide with textile fabric inlays. Suitable for use on edges. Grinding point in conical shape for fine grinding inner radii, contours and transitions.



Special features:
- Produces a fine, matt surface finish.
- High economic efficiency due to high abrasive performance and long tool life.

D [mm]	T [mm]	S_d [mm]	L_2 [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
10	25	6	40	A	80	38,000	57,200	10	41719608	PF KE 1025/6 AN 80 TX
					120	38,000	57,200	10	41719612	PF KE 1025/6 AN 120 TX
16	45	6	40	A	80	24,000	38,800	10	41738608	PF KE 1645/6 AN 80 TX
25	70	6	40	A	80	15,000	22,900	10	41750608	PF KE 2570/6 AN 80 TX



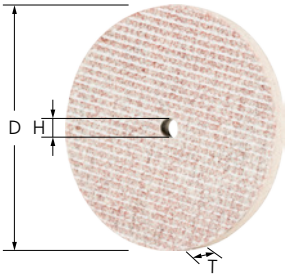
Poliflex fine grinding points PF SP TX

Very hard, sturdy bond made of regular aluminium oxide with textile fabric inlays. Grinding point in pointed tree shape for fine grinding inner radii, contours and transitions.

Special features:
- Produces a fine, matt surface finish.
- High economic efficiency due to high abrasive performance and long tool life.

D [mm]	T [mm]	S_d [mm]	L_2 [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
10	20	3	30	A	80	38,000	57,200	10	41310608	PF SP 1020/3 AN 80 TX
					120	38,000	49,200	10	41310612	PF SP 1020/3 AN 120 TX
20	32	6	40	A	80	19,000	28,600	10	41320608	PF SP 2032/6 AN 80 TX
					120	19,000	28,600	10	41320612	PF SP 2032/6 AN 120 TX

Poliflex tools
TX bond

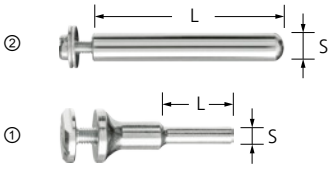


Poliflex fine grinding discs PF SC TX

Very hard, sturdy bond made of regular aluminium oxide with textile fabric inlays. For fine peripheral grinding on small surfaces.

Special features:
- Produces a fine, matt surface finish.
- High economic efficiency due to high abrasive performance and long tool life.
- Please order compatible arbor separately.

D [mm]	T [mm]	H [mm]	Abra-sive	Grit size	Opt. RPM	Max. RPM	Suitable arbors		Item no.	Designation
25	3	3	A	80	15,000	22,900	BO 6/3 1-6	20	41120308	PF SC 2503/3 A 80 TX
				120	15,000	22,900	BO 6/3 1-6	20	41120312	PF SC 2503/3 A 120 TX
	6	3	A	120	15,000	22,900	BO 6/3 1-6	20	41120612	PF SC 2506/3 A 120 TX
40	3	3	A	80	9,500	14,300	BO 6/3 1-6	10	41121408	PF SC 4003/3 A 80 TX
				120	9,500	14,300	BO 6/3 1-6	10	41121412	PF SC 4003/3 A 120 TX
	6	6	A	120	9,500	14,300	BO 6/6 3-10	10	41121612	PF SC 4006/6 A 120 TX



Arbor BO

Matching arbor for Poliflex fine grinding discs.

Special features:
- High economic efficiency as tool can be changed quickly.
- Durable thanks to high-quality material.
- Enables faster central clamping.

Image	Suitable for hole diameter [mm]	S [mm]	L [mm]	Clamping range [mm]		Item no.	Designation
②	3	6	40	1 – 6	1	42400003	BO 6/3 1-6
①	6	6	25	3 – 10	1	42400006	BO 6/6 3-10

Safety notes

- For safety reasons, the maximum permitted rotational speed indicated must never be exceeded.

Wear eye protection!

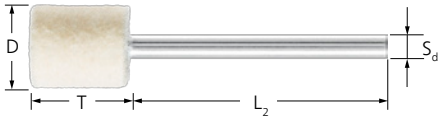
Wear hearing protection!

Wear gloves!

Wear a dust mask!

Follow the safety instructions!

Felt points FK



Shape ZYA

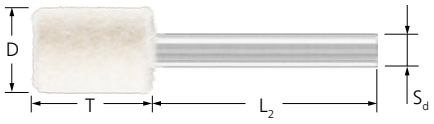
The cylindrical shape ZYA is mainly used peripherally for pre-polishing and high-gloss polishing. Can be profiled as desired, meaning they can also be used for tools with complex geometries. Precise retention of geometric shapes due to the hardness of these tools.

Special features:

- Outstanding result with diamond polishing pastes and polishing paste bars from PFERD TOOLS. Please order separately.

D [mm]	T [mm]	S_d [mm]	L_2 [mm]	Version	Opt. RPM	Max. RPM		Item no.	Designation
4	12	3	37	M (medium)	23,000 – 47,000	119,000	10	44100412	FK ZYA 0412/3 M
6	10	3	35	M (medium)	16,000 – 32,000	79,500	10	44140610	FK ZYA 0610/3 M
				H (hard)	16,000 – 32,000	79,500	10	44100614	FK ZYA 0610/3 H
8	10	3	35	M (medium)	12,000 – 24,000	59,500	10	44140810	FK ZYA 0810/3 M
				H (hard)	12,000 – 24,000	59,500	10	44140816	FK ZYA 0810/3 H
10	12	3	34	M (medium)	10,000 – 20,000	47,500	10	44111009	FK ZYA 1012/3 M
				H (hard)	10,000 – 20,000	47,500	10	44111010	FK ZYA 1012/3 H
	15	3	32	M (medium)	10,000 – 20,000	47,500	10	44111013	FK ZYA 1015/3 M
				H (hard)	10,000 – 20,000	47,500	10	44161015	FK ZYA 1015/3 H
				MS (metal insert)	10,000 – 20,000	47,500	10	*44161014*	FK ZYA 1015/3 MS
12	20	3	28	M (medium)	7,950 – 15,900	39,500	10	44100038	FK ZYA 1220/3 M
				H (hard)	7,950 – 15,900	39,500	10	44100040	FK ZYA 1220/3 H
10	12	6	42	M (medium)	10,000 – 20,000	47,500	10	44111011	FK ZYA 1012/6 M
				H (hard)	10,000 – 20,000	47,500	10	44111012	FK ZYA 1012/6 H
	15	6	40	M (medium)	10,000 – 20,000	47,500	10	44101671	FK ZYA 1015/6 M
				H (hard)	10,000 – 20,000	47,500	10	44161016	FK ZYA 1015/6 H
12	20	6	36	M (medium)	7,950 – 15,900	39,500	10	44100042	FK ZYA 1220/6 M
				H (hard)	7,950 – 15,900	39,500	10	44100044	FK ZYA 1220/6 H

Discontinued product

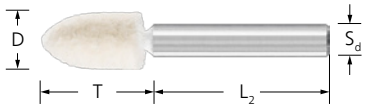


Shape ZYA with end hole

The cylindrical shape ZYA is mainly used face-down for pre-polishing and high-gloss polishing. Can be profiled as desired, meaning they can also be used for tools with complex geometries. Precise retention of geometric shapes due to the hardness of these tools.

Special features:
- Outstanding result with diamond polishing pastes and polishing paste bars from PFERD TOOLS. Please order separately.
- Particularly suitable for face-down use.

D [mm]	T [mm]	S_d [mm]	L_2 [mm]	Version	Opt. RPM	Max. RPM		Item no.	Designation
15	20	3	28	M (medium)	6,000 – 12,000	31,500	10	44100046	FK ZYA 1520/3 M ST-BO
				H (hard)	6,000 – 12,000	31,500	10	44100048	FK ZYA 1520/3 H ST-BO
		6	38	M (medium)	6,000 – 12,000	31,500	10	44151520	FK ZYA 1520/6 M ST-BO
				H (hard)	6,000 – 12,000	31,500	10	44100050	FK ZYA 1520/6 H ST-BO
				MS (metal insert)	6,000 – 12,000	31,500	10	*44161520*	FK ZYA 1520/6 MS ST-BO
20	25	6	43	M (medium)	5,000 – 10,000	23,500	10	44101701	FK ZYA 2025/6 M ST-BO
				H (hard)	5,000 – 10,000	23,500	10	44100052	FK ZYA 2025/6 H ST-BO
25	30	6	40	M (medium)	4,000 – 8,000	19,000	10	44112536	FK ZYA 2530/6 M ST-BO
				H (hard)	4,000 – 8,000	19,000	10	44100054	FK ZYA 2530/6 H ST-BO



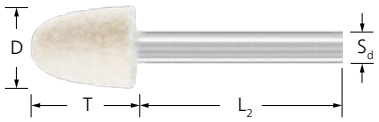
Shape SPK

The conical pointed shape SPK is mainly used for pre-polishing and high-gloss polishing of radii and contours.

Special features:
- Precise retention of geometric shapes due to the hardness of these tools.
- Can be profiled as desired, meaning they can also be used for tools with complex geometries.
- Outstanding result with diamond polishing pastes and polishing paste bars from PFERD TOOLS. Please order separately.

D [mm]	T [mm]	S_d [mm]	L_2 [mm]	Version	Opt. RPM	Max. RPM		Item no.	Designation
6	10	3	37	M (medium)	16,000 – 32,000	79,500	10	47901120	FK SPK 0610/3 M
				H (hard)	16,000 – 32,000	79,500	10	44100114	FK SPK 0610/3 H
	18	3	33	M (medium)	16,000 – 32,000	79,500	10	44100118	FK SPK 0618/3 M
				H (hard)	16,000 – 32,000	79,500	10	44100122	FK SPK 0618/3 H
8	12	3	36	M (medium)	12,000 – 24,000	59,500	10	44140812	FK SPK 0812/3 M
				H (hard)	12,000 – 24,000	59,500	10	44100128	FK SPK 0812/3 H
10	18	3	33	M (medium)	10,000 – 20,000	47,500	10	44171013	FK SPK 1018/3 M
				H (hard)	10,000 – 20,000	47,500	10	44100130	FK SPK 1018/3 H
12	18	3	33	M (medium)	8,000 – 16,000	39,500	10	44141218	FK SPK 1218/3 M
10	18	6	41	M (medium)	10,000 – 20,000	47,500	10	44101691	FK SPK 1018/6 M
				H (hard)	10,000 – 20,000	47,500	10	44100132	FK SPK 1018/6 H
15	20	6	42	M (medium)	6,000 – 12,000	31,500	10	44171526	FK SPK 1520/6 M
	30	6	45	M (medium)	6,000 – 12,000	31,500	10	44171536	FK SPK 1530/6 M
20	25	6	47	M (medium)	5,000 – 10,000	23,500	10	44152025	FK SPK 2025/6 M
25	30	6	45	M (medium)	4,000 – 8,000	19,000	10	47901128	FK SPK 2530/6 M
30	35	6	42	M (medium)	3,200 – 6,350	15,500	10	47901129	FK SPK 3035/6 M

Discontinued product

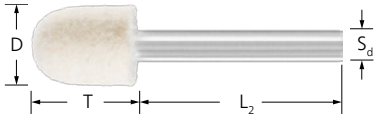


Shape KEL

The conical shape KEL is mainly used for pre-polishing and high-gloss polishing of radii.

Special features:
- Precise retention of geometric shapes due to the hardness of these tools.
- Can be profiled as desired, meaning they can also be used for tools with complex geometries.
- Outstanding result with diamond polishing pastes and polishing paste bars from PFERD TOOLS. Please order separately.

D [mm]	T [mm]	S_d [mm]	L_2 [mm]	Version	Opt. RPM	Max. RPM		Item no.	Designation
6	10	3	37	M (medium)	16,000 – 32,000	79,500	10	47901130	FK KEL 0610/3 M
10	15	3	34	M (medium)	10,000 – 20,000	47,500	10	47901133	FK KEL 1015/3 M
		6	40	M (medium)	10,000 – 20,000	47,500	10	47901141	FK KEL 1015/6 M
15	20	6	42	M (medium)	6,000 – 12,000	31,500	10	44151521	FK KEL 1520/6 M
20	25	6	47	M (medium)	5,000 – 10,000	23,500	10	44182026	FK KEL 2025/6 M
				H (hard)	5,000 – 10,000	23,500	10	44100190	FK KEL 2025/6 H
	30	6	45	M (medium)	5,000 – 10,000	23,500	10	44100192	FK KEL 2030/6 M
				H (hard)	5,000 – 10,000	23,500	10	44100193	FK KEL 2030/6 H
25	30	6	45	M (medium)	4,000 – 8,000	19,000	10	44101711	FK KEL 2530/6 M
30	35	6	42	M (medium)	3,200 – 6,350	15,500	10	44101721	FK KEL 3035/6 M

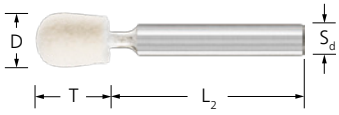


Shape WRC

The cylindrical shape with radius end WRC is mainly used for pre-polishing and high-gloss polishing of small, concave contours.

Special features:
- Precise retention of geometric shapes due to the hardness of these tools.
- Can be profiled as desired, meaning they can also be used for tools with complex geometries.
- Use diamond polishing pastes and polishing paste bars. Please order separately.

D [mm]	T [mm]	S_d [mm]	L_2 [mm]	Version	Opt. RPM	Max. RPM		Item no.	Designation
6	10	3	36	M (medium)	16,000 – 32,000	79,500	10	47901099	FK WRC 0610/3 M
8	12	3	43	M (medium)	12,000 – 24,000	59,500	10	44140813	FK WRC 0812/3 M
10	14	3	35	M (medium)	10,000 – 20,000	47,500	10	44141014	FK WRC 1014/3 M
15	20	6	42	M (medium)	6,000 – 12,000	31,500	10	44131526	FK WRC 1520/6 M
20	25	6	47	M (medium)	5,000 – 10,000	23,500	10	44132026	FK WRC 2025/6 M
25	30	6	45	M (medium)	4,000 – 8,000	19,000	10	44132536	FK WRC 2530/6 M

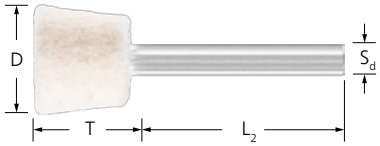


Shape TRE

The oval shape TRE is mainly used for pre-polishing and high-gloss polishing of small radii.

Special features:
- Precise retention of geometric shapes due to the hardness of these tools.
- Can be profiled as desired, meaning they can also be used for tools with complex geometries.
- Outstanding result with diamond polishing pastes and polishing paste bars from PFERD TOOLS. Please order separately.

D [mm]	T [mm]	S_d [mm]	L_2 [mm]	Version	Opt. RPM	Max. RPM		Item no.	Designation
6	10	3	37	M (medium)	16,000 – 32,000	79,500	10	44100272	FK TRE 0610/3 M
8	12	3	36	M (medium)	12,000 – 24,000	59,500	10	44100276	FK TRE 0812/3 M
10	14	3	35	M (medium)	10,000 – 20,000	47,500	10	44100280	FK TRE 1014/3 M
		6	43	M (medium)	10,000 – 20,000	47,500	10	44101681	FK TRE 1014/6 M



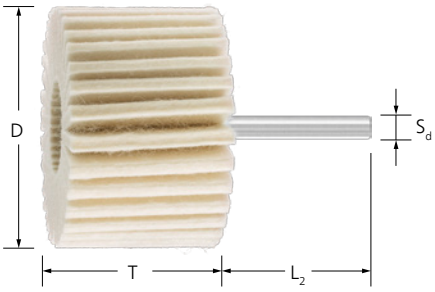
Shape WKN

The tapered shape WKN is mainly used for pre-polishing and high-gloss polishing of interior angles.

Special features:
- Precise retention of geometric shapes due to the hardness of these tools.
- Can be profiled as desired, meaning they can also be used for tools with complex geometries.
- Outstanding result with diamond polishing pastes and polishing paste bars from PFERD TOOLS. Please order separately.

D [mm]	T [mm]	S_d [mm]	L_2 [mm]	Version	Opt. RPM	Max. RPM		Item no.	Designation
10	15	3	32	M (medium)	10,000 – 20,000	47,500	10	44100326	FK WKN 1015/3 M
12	12	3	36	M (medium)	8,000 – 16,000	39,500	10	44100330	FK WKN 1212/3 M
				H (hard)	8,000 – 16,000	39,500	10	44100334	FK WKN 1212/3 H
15	15	3	32	M (medium)	6,000 – 12,000	31,500	10	44100336	FK WKN 1515/3 M
				H (hard)	6,000 – 12,000	31,500	10	44100338	FK WKN 1515/3 H
20	16	3	28	M (medium)	5,000 – 10,000	23,500	10	44100340	FK WKN 2016/3 M
		6	38	M (medium)	5,000 – 10,000	23,500	10	44152016	FK WKN 2016/6 M

Polishing tools
Mounted felt flap wheels



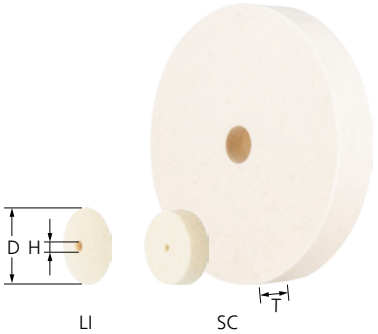
FLS

Mounted felt flap wheels are used for pre-polishing and high-gloss polishing on small to medium-sized components.

Special features:
- Highly flexible, enabling optimal adjustment to the contour. Low thermal load on the workpiece.
- If very fine finishes need to be achieved, the two types can be used successively.
- Use a polishing paste bar. Please order separately.

D [mm]	T [mm]	S_d [mm]	L_2 [mm]	Version	Opt. RPM	Max. RPM		Item no.	Designation
30	20	6	40	W (soft)	6,300	20,000	5	44383020	FLS 3020/6 W
				H (hard)	6,300	20,000	5	44383021	FLS 3020/6 H
40	20	6	40	W (soft)	4,750	15,000	5	44384020	FLS 4020/6 W
				H (hard)	4,750	15,000	5	44384021	FLS 4020/6 H
50	30	6	40	W (soft)	3,800	12,000	5	44385030	FLS 5030/6 W
				H (hard)	3,800	12,000	5	44385031	FLS 5030/6 H
60	40	6	40	W (soft)	3,150	10,000	5	44386040	FLS 6040/6 W
				H (hard)	3,150	10,000	5	44386041	FLS 6040/6 H
80	50	6	40	W (soft)	2,400	7,500	5	44388050	FLS 8050/6 W
				H (hard)	2,400	7,500	5	44388051	FLS 8050/6 H

Felt wheels and lenses FK SC/LI



FK SC/LI

Felt wheels and lenses are mainly used peripherally.

Special features:
- Precise retention of geometric shapes due to the hardness of these tools.
- Use diamond polishing pastes and polishing paste bars. Please order polishing pastes and compatible arbor separately.

D [mm]	T [mm]	H [mm]	Version	Opt. RPM	Max. RPM	Suitable arbors		Item no.	Designation
Lenses									
17	5	2	H (hard)	5,600 – 11,000	28,000	BO 2,3/1-6, BO 3/1,6	10	44367008	FK LI 1705/2 H
22	5	2	H (hard)	4,300 – 8,650	21,700	BO 2,3/1-6, BO 3/1,6	10	44367009	FK LI 2205/2 H
Discs									
17	5	2	M (medium)	5,600 – 11,000	28,000	BO 2,3/1-6, BO 3/1,6	10	44367005	FK SC 1705/2 M
20	5	2	M (medium)	5,000 – 10,000	23,500	BO 2,3/1-6, BO 3/1,6	10	44367006	FK SC 2005/2 M

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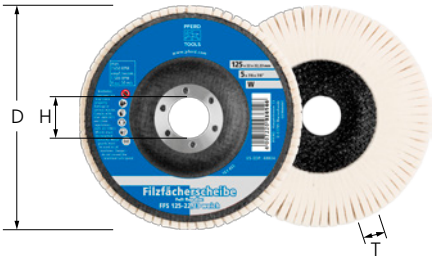
Polishing tools
Felt wheels and lenses FK SC/LI

D [mm]	T [mm]	H [mm]	Version	Opt. RPM	Max. RPM	Suitable arbors		Item no.	Designation
30	5	2	M (medium)	3,000 – 6,000	20,000	BO 2,3/1-6, BO 3/1,6	10	44367007	FK SC 3005/2 M
	7	6	M (medium)	3,000 – 6,000	20,000	BO 6/6 3-10	5	44101742	FK SC 3007/6 M
45	9	6	M (medium)	2,000 – 4,000	13,500	BO 6/6 3-10	5	44101732	FK SC 4509/6 M
60	10	6	M (medium)	1,500 – 3,000	10,000	BO 6/6 3-10	5	44316010	FK SC 6010/6 M
80	10	10	M (medium)	1,000 – 2,000	7,500	BO 8/10	5	44367010	FK SC 8010/10 M
			MS (metal insert)	1,000 – 2,000	7,500	BO 8/10	5	*44330801*	FK SC 8010/10 MS
100	20	10	M (medium)	900 – 1,800	6,100	BO 8/10	1	44367110	FK SC 10020/10 M
			MS (metal insert)	900 – 1,800	6,100	BO 8/10	1	*44331002*	FK SC 10020/10 MS
125	20	20	M (medium)	750 – 1,500	4,900	BO 12/20, BO MK 1/20	1	44367220	FK SC 12520/20 M
			MS (metal insert)	750 – 1,500	4,900	BO 12/20, BO MK 1/20	1	*44331252*	FK SC 12520/20 MS
150	25	20	M (medium)	600 – 1,200	4,000	BO 12/20, BO MK 1/20	1	44367320	FK SC 15025/20 M
200	30	20	M (medium)	500 – 1,000	3,000	BO 12/20, BO MK 1/20	1	44367420	FK SC 20030/20 M

Felt flap discs FFS



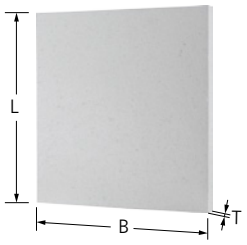
FFS

Felt flap discs are used for pre-polishing and high-gloss polishing on medium-sized to large components.

Special features:
- Highly flexible, enabling optimal adjustment to the contour. Low thermal load on the workpiece.
- Use a polishing paste bar. Please order separately.

D [mm]	T [mm]	H [mm]	Version	Opt. RPM	Max. RPM		Item no.	Designation
115	22	22.23	W (soft)	1,650	8,350	5	44370115	FFS 115/22,23 W
			H (hard)	1,650	8,350	5	44371115	FFS 115/22,23 H
125	22	22.23	W (soft)	1,500	7,650	5	44370125	FFS 125/22,23 W
			H (hard)	1,500	7,650	5	44371125	FFS 125/22,23 H

Discontinued product



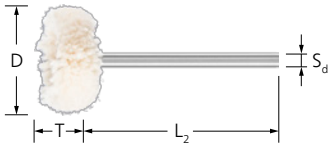
FK P

Felt sheets are suited to a very wide variety of manual polishing applications.

Special features:
- Can be profiled as desired, meaning they can also be used for tools with complex geometries.
- Depending on the requirements, can be cut or punched into any shape (e.g. rectangle, square, stick or wheel) quickly and easily.

L [mm]	B [mm]	T [mm]	Version		Item no.	Designation
250	250	3	M (medium)	1	44101100	FK P 250-250-3 M
		6	M (medium)	1	44101102	FK P 250-250-6 M
			H (hard)	1	44101104	FK P 250-250-6 H
		12	M (medium)	1	44101106	FK P 250-250-12 M
			H (hard)	1	44101108	FK P 250-250-12 H

Cloth rings

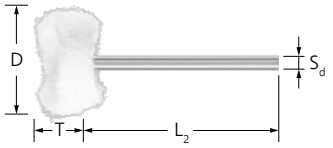


Shank-mounted cloth rings, cotton type

For pre-polishing and high-gloss polishing with polishing pastes in tool and mould-making. Highly flexible, enabling optimal adjustment to the contour. Please order corresponding polishing pastes and arbor separately.

Special features:
- Very fine high-gloss polishing, dust removal and buffing.

D [mm]	T [mm]	S_d [mm]	L_2 [mm]	Opt. RPM	Max. RPM		Item no.	Designation
22	10	3	40	13,000	17,350	10	44270227	TR 2210/3 BW



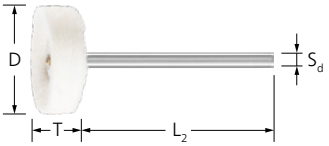
Shank-mounted cloth rings, felt cloth type

For pre-polishing and high-gloss polishing with polishing pastes in tool and mould-making. Highly flexible, enabling optimal adjustment to the contour. Please order corresponding polishing pastes and arbor separately.

Special features:
- Pre-polishing and gloss polishing in combination with appropriate polishing pastes.

D [mm]	T [mm]	S_d [mm]	L_2 [mm]	Opt. RPM	Max. RPM		Item no.	Designation
22	10	3	40	13,000	17,350	10	44270228	TR 2210/3 FZ

Discontinued product

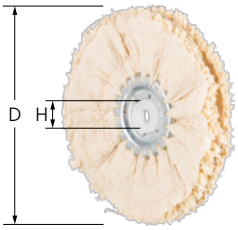


Shank-mounted cloth rings, flannel type

For pre-polishing and high-gloss polishing with polishing pastes in tool and mould-making. Highly flexible, enabling optimal adjustment to the contour. Please order corresponding polishing pastes and arbor separately.

Special features:
- Buffing, gloss polishing and high-gloss polishing in combination with the appropriate polishing pastes.

D [mm]	T [mm]	S_d [mm]	L_2 [mm]	Opt. RPM	Max. RPM		Item no.	Designation
22	10	3	40	13,000	17,350	10	44270229	TR 2210/3 FL

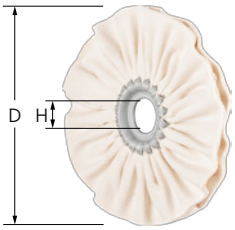


Cloth rings with hole, ST type

For coarse pre-polishing with polishing pastes. Please order corresponding polishing pastes and arbor separately.

Special features:
- Highly flexible, enabling optimal adjustment to the contour.
- The sisal cloth enables coarse pre-polishing.

D [mm]	Usage width [mm]	H [mm]	Opt. RPM	Max. RPM	Suitable arbors		Item no.	Designation
80	10	10	2,500	7,500	BO 8/10	5	44270802	TR 8010-10 ST
100	10	10	1,900	6,100	BO 8/10	5	44271003	TR 10010-10 ST
125	10	10	1,300	4,900	BO 12/20, BO MK 1/20	5	44271253	TR 12510-10 ST
150	10	20	1,250	4,000	BO 12/20, BO MK 1/20	5	44271503	TR 15010-20 ST
200	10	20	950	3,000	BO 12/20, BO MK 1/20	5	44272003	TR 20010-20 ST

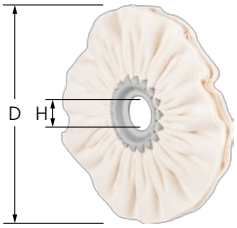


Cloth rings with hole, TH type

For pre-polishing with polishing pastes. Please order corresponding polishing pastes and arbor separately.

Special features:
- Highly flexible, enabling optimal adjustment to the contour.
- The hard cloth enables pre-polishing.

D [mm]	Usage width [mm]	H [mm]	Opt. RPM	Max. RPM	Suitable arbors		Item no.	Designation
50	10	6	3,800	12,000	BO 6/6 3-10	5	44270503	TR 5010-6 TH
80	10	10	2,500	7,500	BO 8/10	5	44270803	TR 8010-10 TH
100	10	10	1,900	6,100	BO 8/10	5	44271004	TR 10010-10 TH
125	10	20	1,300	4,900	BO 12/20, BO MK 1/20	5	44271254	TR 12510-20 TH
150	10	20	1,250	4,000	BO 12/20, BO MK 1/20	5	44271504	TR 15010-20 TH
200	10	20	950	3,000	BO 12/20, BO MK 1/20	5	44272004	TR 20010-20 TH

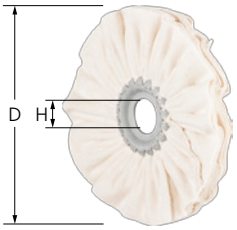


Cloth rings with hole, TW type

For high-gloss polishing with polishing pastes. Please order polishing pastes and arbor separately.

Special features:
- The soft cloth enables high-gloss polishing.
- Highly flexible, enabling optimal adjustment to the contour.

D [mm]	Usage width [mm]	H [mm]	Opt. RPM	Max. RPM	Suitable arbors		Item no.	Designation
50	10	6	3,800	12,000	BO 6/6 3-10	5	44270504	TR 5010-6 TW
80	10	10	2,500	7,500	BO 8/10	5	44270804	TR 8010-10 TW
100	10	10	1,900	6,100	BO 8/10	5	44271005	TR 10010-10 TW
125	10	20	1,300	4,900	BO 12/20, BO MK 1/20	5	44271255	TR 12510-20 TW
150	10	20	1,250	4,000	BO 12/20, BO MK 1/20	5	44271505	TR 15010-20 TW
200	10	20	950	3,000	BO 12/20, BO MK 1/20	5	44272005	TR 20010-20 TW



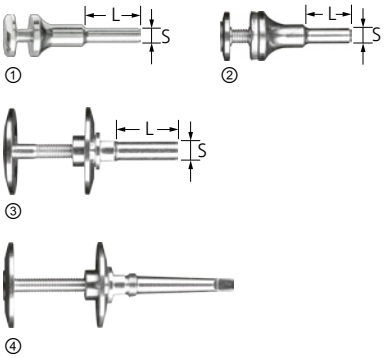
Cloth rings with hole, FL type

For high-gloss polishing with polishing pastes. Please order polishing pastes and arbor separately.

Special features:
- Highly flexible, enabling optimal adjustment to the contour.
- The flannel cloth enables high-gloss polishing and buffing.

D [mm]	Usage width [mm]	H [mm]	Opt. RPM	Max. RPM	Suitable arbors		Item no.	Designation
50	10	6	3,800	12,000	BO 6/6 3-10	5	44270505	TR 5010-6 FL
80	10	10	2,500	7,500	BO 8/10	5	44270805	TR 8010-10 FL
100	10	10	1,900	6,100	BO 8/10	5	44271006	TR 10010-10 FL
125	10	20	1,300	4,900	BO 12/20, BO MK 1/20	5	44271256	TR 12510-20 FL
150	10	20	1,250	4,000	BO 12/20, BO MK 1/20	5	44271506	TR 15010-20 FL
200	10	20	950	3,000	BO 12/20, BO MK 1/20	5	44272006	TR 20010-20 FL

Arbor



Arbor for felt wheels and cloth rings BO

Matching arbors for felt wheels and cloth rings.

Special features:
- High economic efficiency as tool can be changed quickly.

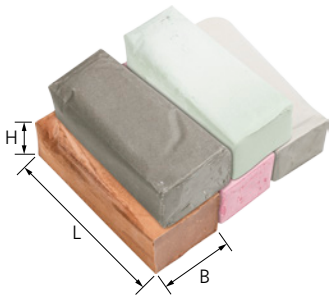
Image	Suitable for hole diameter [mm]	S [mm]	L [mm]	Clamping range [mm]		Item no.	Designation
①	6	6	25	3 – 10	1	42400006	BO 6/6 3-10
②	10	8	30	6 – 20	1	42400008	BO 8/10 6-20
③	20	12	35	10 – 50	1	42400012	BO 12/20 10-50
④	20	-	-	10 – 50	1	42400062	BO MK 1/20 10-50

Grinding pastes SFP

Oil-soluble grinding pastes with sharp-edged silicon carbide grain (SiC) for very fine grinding work, e.g. grinding in valve seats, shaft bearings and as preparation for polishing with felt polishing tools and cloth rings.

Special features:
- High productivity.
- Quick results.
- Coordinated system.

Grit size	Contents [g]		Item no.	Designation
90	250	1	44220090	SFP 90
150	250	1	44220150	SFP 150
280	250	1	44220280	SFP 280
360	250	1	44220360	SFP 360
600	250	1	44220600	SFP 600
800	250	1	44220800	SFP 800



Polishing paste bar PP

Polishing pastes for felt tools and cloth rings for pre-polishing and high-gloss polishing. To achieve very smooth surface finishes, use pre-polishing paste (VP) and high-gloss polishing paste (HGP) one after the other. The polishing pastes have high productivity and lead to quick results.

Special features:
- PP 1, PP 2, PP 3: Use cloth rings in the ST (sisal cloth) version for coarse pre-polishing, and cloth rings in the TH (hard cloth) version for pre-polishing.
- PP 4, PP 5: Use cloth rings in the TW (soft cloth) version for high-gloss polishing, and cloth rings in the FL (flannel) version for high-gloss polishing/buffing.

Version	Use for	Contents [g]	Colour	B [mm]	H [mm]	L [mm]		Item no.	Designation
Bulk pack									
Pre-polishing	Steel + INOX	1,100	green	70	50	140	1	44250001	G-PP 1 VP STEELOX
	Aluminium + brass	1,300	grey	70	50	140	1	44250002	G-PP 2 VP ALU
	Non-ferrous metals	1,150	brown	70	50	140	1	44250003	G-PP 3 VP NON-FERROUS
High-gloss polishing	All metals	1,150	pink	70	50	140	1	44250004	G-PP 4 HGP UNIVERSAL
	Plastics	1,100	beige	70	50	140	1	44250005	G-PP 5 HGP PLAST
Small pack									
Pre-polishing	Steel + INOX	108	green	25	30	90	1	44250006	K-PP 1 VP STEELOX
	Aluminium + brass	142	grey	25	30	90	1	44250007	K-PP 2 VP ALU
	Non-ferrous metals	111	brown	25	30	90	1	44250008	K-PP 3 VP NON-FERROUS
High-gloss polishing	All metals	132	pink	25	30	90	1	44250009	K-PP 4 HGP UNIVERSAL
	Plastics	104	beige	25	30	90	1	44250010	K-PP 5 HGP PLAST

Grinding oils and polishing pastes
Diamond polishing pastes

Diamond polishing pastes

Diamond polishing pastes guarantee quick and efficient work, particularly in tool-making and mould-making. For working on very hard materials, e.g. tungsten carbide and hardened steels. For use with felt polishing cones or wheels.

Special features:
- Can be thinned and dissolved with water and alcohol.
- High productivity. Quick results. Coordinated selections of grits.

Grit size [µm]	Contents [g]	Colour of sealing cap		Item no.	Designation
DPP					
30 (coarse) = P 500	5	brown	1	44240030	DPP 30-5
	20	brown	1	44240130	DPP 30-20
15 (medium) = P 1200	5	blue	1	44240015	DPP 15-5
	20	blue	1	44240115	DPP 15-20
10 (medium-fine) = P 2000	5	light blue	1	44240010	DPP 10-5
	20	light blue	1	44240011	DPP 10-20
7 (fine) = P 3000	5	red	1	44240007	DPP 7-5
	20	red	1	44240107	DPP 7-20
3 (very fine) = P 5000	5	green	1	44240003	DPP 3-5
	20	green	1	44240103	DPP 3-20
1 (ultra-fine) = P 14000	5	yellow	1	44240001	DPP 1-5
	20	yellow	1	44240002	DPP 1-20
ECO DPP					
30 (coarse) = P 500	10	brown	1	44240202	DPP ECO 30-10
15 (medium) = P 1200	10	blue	1	44240192	DPP ECO 15-10
10 (medium-fine) = P 2000	10	light blue	1	44240182	DPP ECO 10-10
7 (fine) = P 3000	10	red	1	44240172	DPP ECO 7-10
3 (very fine) = P 5000	10	green	1	44240162	DPP ECO 3-10
1 (ultra-fine) = P 14000	10	yellow	1	44240152	DPP ECO 1-10

Special diluent for diamond polishing pastes PSP

The thinner is used to keep the lubricating layer between the support and the workpiece consistent during polishing work.

Special features:
- The diluent should be used extremely sparingly.
- Excessive use of the special diluent will wash out the diamond grit from the paste, thus diminishing polishing performance.

Contents [ml]		Item no.	Designation
125	1	44250125	PSP 125

Grinding oil for steel

Grinding oil for use in applications with coated abrasive tools on steel. They increase the tool life and reduce heat build-up thanks to lubrication and cooling.

Special features:
- Protects against corrosion.
- Fewer chips adhere to the abrasive coating and a better surface is achieved.

Use for	Contents [ml]		Item no.	Designation
Aerosol can				
Steel	400	1	42200001	410 Fe
Canister				
Steel	1,000	1	42200003	410/1 Fe
	5,000	1	42200004	410/5 Fe

Grinding oil for stainless steel (INOX)

Grinding oil for use in applications with coated abrasive tools on non-ferrous metals and stainless steel. They increase the tool life and reduce heat build-up thanks to lubrication and cooling.

Special features:
- Prevents the workpiece from becoming stained with unwanted marks, especially on stainless steel surfaces.
- Fewer chips adhere to the abrasive coating and a better surface is achieved.

Use for	Contents [ml]		Item no.	Designation
Aerosol can				
Non-ferrous metals, INOX	400	1	42200002	411 NE
Bottle/canister				
Non-ferrous metals, INOX	1,000	1	42200005	411/1 NE
	5,000	1	42200006	411/5 NE

Grinding oil for ALU

Grinding oil for use in applications with coated abrasive tools on aluminium. They increase the tool life and reduce heat build-up thanks to lubrication and cooling.

Special features:
- Stops the grinding tool clogging up.
- Fewer chips adhere to the abrasive coating and a better surface is achieved.

Use for	Contents [ml]		Item no.	Designation
Aerosol can				
Aluminium	400	1	42200007	412 ALU
Bottle/canister				
Aluminium	1,000	1	42200008	412/1 ALU
	5,000	1	42200009	412/5 ALU

Cleaner

Universal cleaner UC-S

Highly effective, general workshop cleaner for cleaning and de-greasing components as a preparation for painting. Removes polishing paste residue, processing oils, corrosion-protection oils, light waxes and other types of contamination.

Special features:
- Biodegradable surfactants.
- Short drying time. Non-combustible.
- Versatile.

Contents [ml]		Item no.	Designation
500	1	42200060	UC-S 500

INOX SHINER IS-S maintenance product

Maintenance product for protecting and caring for stainless steel (INOX), aluminium, non-ferrous metals, glass and plastic. Removes dust, fingerprints, oil and light scale deposits.

Special features:
- Leaves a dry, glossy protective film.
- Very easy to use. No cleaning marks.
- Versatile.

Contents [ml]		Item no.	Designation
500	1	42200055	INOX SHINER IS-S 500

PFERD TOOLS

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Diamond and CBN tools

Diamond and CBN tools
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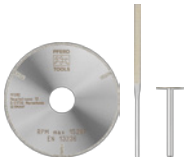

Diamond and CBN tools – electroplated bond

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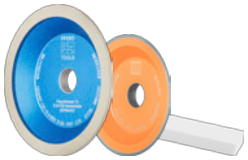

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Diamond tools for the construction industry

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Diamond and CBN tools
Highlights from the PFERD TOOLS range

DUODISC DIAMOND

Exceptionally well-suited to machining grey cast iron and nodular cast iron (GG and GGG or GJL and GJS). Ideal for roughing and deburring work in fettling shops. The coating geometry enables small feeders and risers to be separated. Scan the QR code to find out more about DUODISC DIAMOND.

Advantages:
- Constant tool diameter.
- Reduced tool change times thanks to long tool life.
- Dust is minimized as the tool does not wear away.

Multi Power Carbide Wheel

The Multi Carbide Wheel is a general-purpose cut-off wheel and the perfect solution for demanding cutting tasks in the construction industry and in DIY applications. With sharp tungsten carbide grains, this cut-off wheel ensures excellent cutting quality and short cutting times on all kinds of materials such as wood with nails, plastics, non-ferrous metals and drywall construction materials.

Scan the QR code to find out more about the general-purpose cut-off wheel.
- Ideal choice when changing materials.
- Optimum cutting speed due to consistent diameter and high ease of cutting.
- Long service life thanks to special bonding of the tungsten carbide grain with the steel body.

Diamond tools for the construction industry

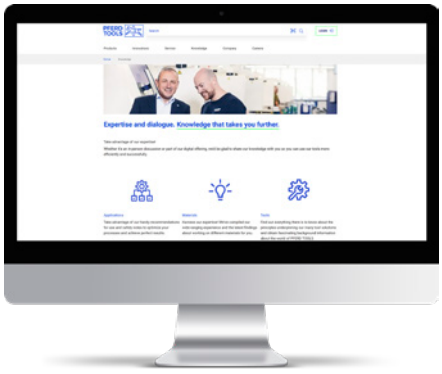
PFERD TOOLS diamond tools are the ideal solution for demanding projects which involve working on hard materials such as concrete, asphalt, granite or tiles. The broad product range offers the right tool for any application, ensuring the best results and improving the cost-effectiveness of your building projects.

Scan the QR code to find out more about diamond tools for the construction industry.

Advantages:
- Optimum results.
- Maximum efficiency and safety.
- Comprehensive product range for a wide range of uses.

More expert information online

Scan the QR code to find out a wide range of tool and application knowledge relating to PFERD TOOLS' high-quality tools and their huge variety of materials.



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Diamond and CBN tools

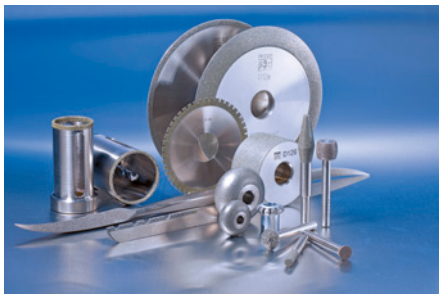
Customer-specific products made to order

PFERD TOOLS specializes in consulting for and the production of customer-specific electroplated diamond and CBN tools.

Almost all tool blank geometries can be coated with various grit sizes. The electroplated bond also enables economic production of small batch sizes. Because of the diverse possibilities, our production can respond to individual customer requirements with a high degree of flexibility.

Our technical advisers will be happy to visit you on-site to develop individual and economical tool solutions for your applications.

Get the best possible advice for super-hard solutions! Scan the QR code to find out more about customer-specific products made to order.



Customer-specific tool solutions for grey and nodular cast iron

Tools for auxiliary spindles

PFERD TOOLS offers tools for auxiliary spindles in different shapes/geometries and dimensions as well as with M12 and M16 threads.

Cut-off wheels and grinding discs

Diamond cut-off wheels and diamond grinding discs from PFERD TOOLS can be purchased in diameters of up to 600 mm. Shapes and dimensions (hole, radius, reference circle, etc.) can be produced according to customer requirements.

Grinding points and grinding drums

The range of products from PFERD TOOLS that can be produced according to customer requirements includes diamond grinding drums and diamond grinding points. These can be customized with different shapes, dimensions and shanks.

1. Process analysis and tool development

Contact us at www.pferd.com and arrange an appointment with our experienced sales representatives and technical advisers.

If you already have precise ideas about the desired tool, you can provide us with a technical drawing or a dimensioned sketch and information on the desired abrasives and grit sizes.

Our employees **will analyze your application with you on-site** and develop the most economic individual tool solution for you. You will then immediately receive a quote. Three production variants are possible:

2. Production

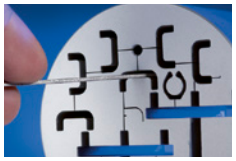
- **Complete production**
  From design and construction, through manufacture of the tool blank (steel, stainless steel or brass) and its coating with diamond or CBN grit, to the balancing of the finished tool, PFERD TOOLS offers you all the production steps from a single source. This guarantees you the highest level of quality, flexibility and on-time delivery.
- **Coating**
  Steel, stainless steel or brass blanks provided by the customer can also be coated with diamond or CBN grit. Close cooperation at an early stage is recommended.
- **Recoating**
  PFERD TOOLS offers recoating of blunt tools with steel or stainless steel blanks as an economical alternative to replacement production. Tools with brass blanks cannot be recoated.

3. Use

Our flexible production and global logistics network ensure that you receive your new tool on time.
If desired, your personal sales representative and a technical adviser will set up all the process parameters together with you.
See the quality, performance and economic value of products from PFERD TOOLS for yourself!

Diamond and CBN tools
The quick way to find the perfect tool

PFERD TOOLS

Use	Material	Application	Tools	
Filing 	Hardened steels, tungsten carbide, ceramics, glass, ferrite, nickel-based and titanium-based alloys	Precision filing	Diamond files	
		Precision filing with air-powered filing machines	Diamond files for air-powered filing machines	
		Machining concave and convex surfaces	Flexible diamond files	
			Diamond sheets	
	Fibre-reinforced plastics (GRP/CRP)	Deburring, chamfering and breaking of edges	Diamond machinist's files, grit size D 251	
Grinding	Tungsten carbide, ceramics, glass, ferrite (magnetic material), nickel-based and titanium-based alloys	Grinding of bores, radii, contours, profiles and shoulders, as well as deburring and chamfering	Electroplated diamond grinding points	
			Diamond grinding disc CC-GRIND SOLID DIAMOND	
		Internal grinding of bores	Electroplated diamond grinding points, cylindrical shape ZY	
			Electroplated diamond grinding discs	
	Tungsten carbide	Sharpening of tungsten carbide tools	Resinoid-bonded diamond grinding discs	
	Hardened steels from approx. 54 HRC	Grinding of bores, radii, contours, profiles and shoulders, as well as deburring and chamfering	Electroplated CBN grinding points	
		Internal grinding of bores	Electroplated CBN grinding points, cylindrical shape ZY	
			Electroplated CBN grinding discs	
	HSS (High Speed Steel)	Sharpening of HSS tools	Resinoid-bonded CBN grinding discs	
	Fibre-reinforced plastics (GRP/CRP)	Deburring, chamfering and general grinding work	Electroplated diamond grinding points, cylindrical shape with radius end WR, grit size D 357	
			Diamond grinding disc CC-GRIND SOLID DIAMOND	
	Grey and nodular cast iron	Grinding burning-ins, sand inclusions and adhesions	Mounted points for foundries	
		Grinding burning-ins, sand inclusions and adhesions and separating short risers and feeders	DUODISC DIAMOND	
Cutting	Tungsten carbide, ceramics, glass, ferrite, nickel-based and titanium-based alloys	Cutting	Diamond cut-off wheels, grit size D 64/D 151	
	Fibre-reinforced plastics (GRP/CRP)	Cut-off grinding, trimming, making cut-outs, and cutting straight contours to size	Diamond cut-off wheels, grit size D 357/D 427	
		Sawing, trimming, making cut-outs, and cutting curved contours to size	Diamond sabre saw blades	
	Grey and nodular cast iron	Separation of open risers, burrs, feeders, sprues, parting lines etc.	Diamond cut-off wheels, grit size D 852	

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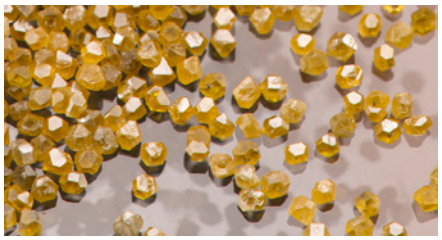
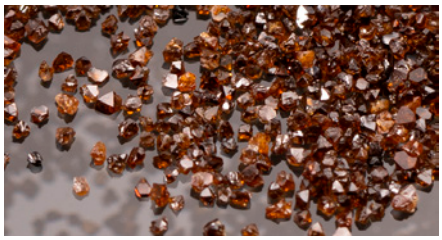
Diamond and CBN tools
Materials

Diamond and CBN abrasives are used when materials cannot be machined with conventional abrasives such as aluminium oxide or silicon carbide. They also provide a more economical solution for many applications. Due to high chemical wear, rotating diamond tools are not suitable for work on steel. CBN tools are used for these applications. The two abrasives complement each other ideally. In the adjacent overview, you will find various materials associated with the abrasives.



Diamond
- Duroplastics, in particular with glass or carbon fibre reinforcement (GRP and CRP)
- Ferrite (magnetic material)
- Glass
- Graphite and synthetic carbon
- Grey and nodular cast iron
- Tungsten carbide
- Nickel or titanium-based superalloys
- Technical ceramics
- Wear-resistant coatings (powder metal alloys and hardfacing alloys)



CBN
- Case-hardened steels
- Roller-bearing and ball-bearing steels
- Tool steels
- Other hardened steel materials with a hardness from approx. 54 HRC

Safety notes and recommended cutting speeds

Safety notes

The operator is responsible for the grinding application, including correct tool drive use, correct handling and use of the grinding tools.

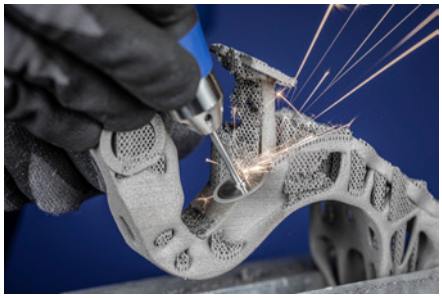
Wear eye protection!

Wear hearing protection!

Wear gloves!

Wear a dust mask!

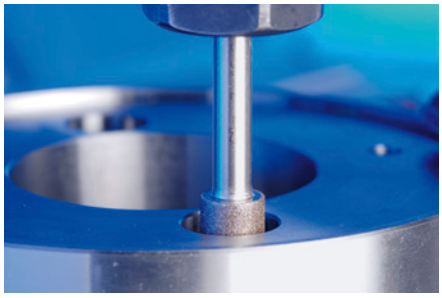
Follow the safety instructions!



Recommended cutting speeds

The recommended cutting speed ranges depend on the application and must not exceed the maximum permissible peripheral speed. Because of the wide range of tasks and application fields of electroplated diamond and CBN tools, as well as the large influence of the employed tool drive, it is not possible to specify a generally valid cutting speed. The recommended cutting speed ranges serve as reference values.

Generally, the following applies:
- In dry grinding, do not use diamond tools at too high a cutting speed in order to avoid thermal damage to the abrasive.
- If possible, do not use CBN tools under the cutting speeds specified below. The optimum cutting speed has a direct effect on the economic efficiency of the tools in use.
- All parameters must always be coordinated with each other within the grinding process. If the cutting speed is changed, the feed, infeed and coolant supply, among others, must be adjusted accordingly.
- Electroplated diamond and CBN tools can be used in dedicated stationary applications up to a peripheral speed of 125 m/s.



Diamond and CBN tools
Safety notes and recommended cutting speeds

		Cutting speed [m/s] ▸	5	10	15	20	25	30	35	40	45	...	80
Electroplated bond	Diamond	Dry grinding		8–18 m/s				30–80 m/s for CRP/GRP as well as grey and nodular cast iron					
		Wet grinding			15–25 m/s								
	CBN	Dry grinding			15–25 m/s								
		Wet grinding				20–40 m/s							
Resinoid bond	Diamond	Dry grinding			15–20 m/s								
		Wet grinding				20–30 m/s							
	CBN	Dry grinding				18–30 m/s							
		Wet grinding					25–40 m/s						
Metal bond	Diamond	Dry grinding		10–15 m/s									
		Wet grinding			15–30 m/s								
	CBN	Wet grinding					25–30 m/s						

Diamond and CBN tools
Recommended rotational speed range

PFERD TOOLS

Tool dia. [mm]	Cutting speed [m/s]											
	8	12	15	18	20	25	30	40	50	80	100	125
	Rotational speed rounded off [RPM]											
1	153,000	-	-	-	-	-	-	-	-	-	-	-
2	76,400	115,000	143,000	172,000	191,000	-	-	-	-	-	-	-
3	50,900	76,400	95,500	115,000	127,000	159,000	191,000	-	-	-	-	-
4	38,200	57,300	71,600	85,900	95,500	119,000	143,000	-	-	-	-	-
5	30,600	45,800	57,300	68,800	76,400	95,500	115,000	153,000	-	-	-	-
6	25,500	38,200	47,700	57,300	63,700	79,600	95,500	127,000	159,000	-	-	-
7	21,800	32,700	40,900	49,100	54,600	68,200	81,900	109,000	136,000	-	-	-
8	19,100	28,600	35,800	43,000	47,700	59,700	71,600	95,500	119,000	191,000	-	-
9	17,000	25,500	31,800	38,200	42,400	53,100	63,700	84,900	106,000	170,000	-	-
10	15,300	22,900	28,600	34,400	38,200	47,700	57,300	76,400	95,500	153,000	191,000	-
12	12,700	19,100	23,900	28,600	31,800	39,800	47,700	63,700	79,600	127,000	159,000	199,000
14	10,900	16,400	20,500	24,600	27,300	34,100	40,900	54,600	68,200	109,000	136,000	171,000
15	10,200	15,300	19,100	22,900	25,500	31,800	38,200	50,900	63,700	102,000	127,000	159,000
16	9,500	14,300	17,900	21,500	23,900	29,800	35,800	47,700	59,700	95,500	119,000	149,000
18	8,500	12,700	15,900	19,100	21,200	26,500	31,800	42,400	53,100	84,900	106,000	133,000
20	7,600	11,500	14,300	17,200	19,100	23,900	28,600	38,200	47,700	76,400	95,500	119,000
22	6,900	10,400	13,000	15,600	17,400	21,700	26,000	34,700	43,400	69,400	86,800	109,000
25	6,100	9,200	11,500	13,800	15,300	19,100	22,900	30,600	38,200	61,100	76,400	95,500
30	5,100	7,600	9,500	11,500	12,700	15,900	19,100	25,500	31,800	50,900	63,700	79,600
40	3,800	5,700	7,200	8,600	9,500	11,900	14,300	19,100	23,900	38,200	47,700	59,700
50	3,100	4,600	5,700	6,900	7,600	9,500	11,500	15,300	19,100	30,600	38,200	47,700
75	2,000	3,100	3,800	4,600	5,100	6,400	7,600	10,200	12,700	20,400	25,500	31,800
100	1,530	2,300	2,900	3,400	3,800	4,800	5,700	7,600	9,500	15,300	19,100	23,900
125	1,220	1,830	2,300	2,800	3,100	3,800	4,600	6,100	7,600	12,200	15,300	19,100
150	1,020	1,530	1,910	2,300	2,500	3,200	3,800	5,100	6,400	10,200	12,700	15,900
175	870	1,310	1,640	1,960	2,200	2,700	3,300	4,400	5,500	8,700	10,900	13,600
200	760	1,150	1,430	1,720	1,910	2,400	2,900	3,800	4,800	7,600	9,500	11,900
230	660	1,000	1,250	1,490	1,660	2,100	2,500	3,300	4,200	6,600	8,300	10,400
250	610	920	1,150	1,380	1,530	1,910	2,300	3,100	3,800	6,100	7,600	9,500
300	510	760	950	1,150	1,270	1,590	1,910	2,500	3,200	5,100	6,400	8,000
350	440	650	820	980	1,090	1,360	1,640	2,200	2,700	4,400	5,500	6,800
400	380	570	720	860	950	1,190	1,430	1,910	2,400	3,800	4,800	6,000
450	340	510	640	760	850	1,060	1,270	1,700	2,100	3,400	4,200	5,300
500	310	460	570	690	760	950	1,150	1,530	1,910	3,100	3,800	4,800
600	250	380	480	570	640	800	950	1,270	1,590	2,500	3,200	4,000

Refer to the table for the recommended rotational speed based on the diameter and cutting speed of your tool.
Example:
Diamond grinding point, diameter: 20 mm
Cutting speed: 25 m/s
Rotational speed rounded: 23,900 RPM

Diamond escapement files, half-round

Diamond escapement files are used on very small shapes in tool making and in precision mechanics. They have a forged shank which allows use without an additional handle.

Special features:
- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

Profile	Width with coating [mm]	Height with coating [mm]	Total length [mm]	Coating length [mm]	Grit size		Item no.	Designation
Half-round	4.2	1.5	140	40	D 25	1	15308143	DF 3608 D 25
					D 46	1	15308140	DF 3608 D 46
					D 91	1	15308141	DF 3608 D 91
					D 126	1	15308142	DF 3608 D 126

Diamond escapement files, barrette

Diamond escapement files are used on very small shapes in tool making and in precision mechanics. They have a forged shank which allows use without an additional handle.

Special features:
- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

Profile	Width with coating [mm]	Height with coating [mm]	Total length [mm]	Coating length [mm]	Grit size		Item no.	Designation
Barrette shape	4	1.2	140	40	D 25	1	*15310143*	DF 3610 D 25
					D 46	1	*15310140*	DF 3610 D 46
					D 91	1	*15310141*	DF 3610 D 91
					D 126	1	*15310142*	DF 3610 D 126

Diamond escapement files, three square

Diamond escapement files are used on very small shapes in tool making and in precision mechanics. They have a forged shank which allows use without an additional handle.

Special features:
- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

Profile	Width with coating [mm]	Total length [mm]	Coating length [mm]	Grit size		Item no.	Designation
Three square	3	140	40	D 25	1	15314143	DF 3614 D 25
				D 46	1	15314140	DF 3614 D 46
				D 91	1	15314141	DF 3614 D 91
				D 126	1	15314142	DF 3614 D 126

Discontinued product

Diamond escapement files, hand

Diamond escapement files are used on very small shapes in tool making and in precision mechanics. They have a forged shank which allows use without an additional handle.

Special features:
- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

Profile	Width with coating [mm]	Height with coating [mm]	Total length [mm]	Coating length [mm]	Grit size		Item no.	Designation
Hand	4	1.2	140	40	D 25	1	15317143	DF 3617 D 25
					D 46	1	15317140	DF 3617 D 46
					D 91	1	15317141	DF 3617 D 91
					D 126	1	15317142	DF 3617 D 126

Diamond escapement files, square

Diamond escapement files are used on very small shapes in tool making and in precision mechanics. They have a forged shank which allows use without an additional handle.

Special features:
- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

Profile	Width with coating [mm]	Height with coating [mm]	Total length [mm]	Coating length [mm]	Grit size		Item no.	Designation
Square	2	2	140	40	D 25	1	15319143	DF 3619 D 25
					D 46	1	15319140	DF 3619 D 46
					D 91	1	15319141	DF 3619 D 91
					D 126	1	*15319142*	DF 3619 D 126

Diamond escapement files, round

Diamond escapement files are used on very small shapes in tool making and in precision mechanics. They have a forged shank which allows use without an additional handle.

Special features:
- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

Profile	Width with coating [mm]	Total length [mm]	Coating length [mm]	Grit size		Item no.	Designation
Round	1.8	140	40	D 25	1	15321143	DF 3621 D 25
				D 46	1	15321140	DF 3621 D 46
				D 91	1	15321141	DF 3621 D 91
				D 126	1	15321142	DF 3621 D 126

Discontinued product

Diamond escapement file sets

Diamond escapement file sets are supplied in a sturdy, practical plastic box which protects the tools from damage. This is ideal for keeping in the tool trolley or workbench.

Contents:
Contains one each of the following escapement files: half-round, three square, hand, square and round.

Special features:
- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

Grit size		Item no.	Designation
D 25	1	15830903	DF 3090 D 25
D 46	1	15830900	DF 3090 D 46
D 91	1	15830901	DF 3090 D 91
D 126	1	15830902	DF 3090 D 126

Diamond needle files

Diamond needle files, hand

Diamond needle files can be used generally in tool making.

Special features:
- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

Profile	Width with coating [mm]	Height with coating [mm]	Total length [mm]	Coating length [mm]	Grit size		Item no.	Designation
Hand, ultra-slim	5.3	1.3	140	70	D 126	1	15102082	DF 4112S D 126
Hand	5.5	1.6	140	70	D 91	1	15101061	DF 4112 D 91
					D 126	1	15101062	DF 4112 D 126
					D 181	1	15101063	DF 4112 D 181

Diamond needle files, hand with rounded edges

Diamond needle files can be used generally in tool making.

Special features:
- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

Profile	Width with coating [mm]	Height with coating [mm]	Total length [mm]	Coating length [mm]	Grit size		Item no.	Designation
Hand with round edges	5.5	1.6	140	70	D 91	1	15102061	DF 4112R D 91
					D 126	1	15102062	DF 4112R D 126
					D 181	1	15102063	DF 4112R D 181

Diamond needle files, flat

Diamond needle files can be used generally in tool making.

Special features:
- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

Profile	Width with coating [mm]	Height with coating [mm]	Total length [mm]	Coating length [mm]	Grit size		Item no.	Designation
Flat	5.5	1.6	140	70	D 91	1	15103061	DF 4122 D 91
					D 126	1	15103062	DF 4122 D 126
					D 181	1	15103063	DF 4122 D 181

Diamond needle files, three square

Diamond needle files can be used generally in tool making.

Special features:
- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

Profile	Width with coating [mm]	Total length [mm]	Coating length [mm]	Grit size		Item no.	Designation
Three square, ultra-slim	2.8	140	70	D 126	1	15104082	DF 4132S D 126
Three square	3.5	140	70	D 91	1	15104061	DF 4132 D 91
				D 126	1	15104062	DF 4132 D 126
				D 181	1	15104063	DF 4132 D 181

Diamond needle files, square

Diamond needle files can be used generally in tool making.

Special features:
- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

Profile	Width with coating [mm]	Total length [mm]	Coating length [mm]	Grit size		Item no.	Designation
Square, ultra-slim	2.3	140	70	D 126	1	15105082	DF 4142S D 126
Square	2.6	140	70	D 91	1	15105061	DF 4142 D 91
				D 126	1	15105062	DF 4142 D 126
				D 181	1	15105063	DF 4142 D 181

Diamond needle files, half-round

Diamond needle files can be used generally in tool making.

Special features:
- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

Profile	Width with coating [mm]	Height with coating [mm]	Total length [mm]	Coating length [mm]	Grit size		Item no.	Designation
Half-round	5.5	1.6	140	70	D 91	1	15106061	DF 4152 D 91
					D 126	1	15106062	DF 4152 D 126
					D 181	1	15106063	DF 4152 D 181

Diamond needle files, round

Diamond needle files can be used generally in tool making.

Special features:
- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

Profile	Width with coating [mm]	Total length [mm]	Coating length [mm]	Grit size		Item no.	Designation
Round, ultra-slim	2.8	140	70	D 126	1	15107082	DF 4162S D 126
Round	3.2	140	70	D 91	1	15107061	DF 4162 D 91
				D 126	1	15107062	DF 4162 D 126
				D 181	1	15107063	DF 4162 D 181

Diamond needle files, knife

Diamond needle files can be used generally in tool making.

Special features:
- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

Profile	Width with coating [mm]	Height with coating [mm]	Total length [mm]	Coating length [mm]	Grit size		Item no.	Designation
Knife shape	5	1.8	140	70	D 91	1	15108061	DF 4172 D 91
					D 126	1	15108062	DF 4172 D 126
					D 181	1	15108063	DF 4172 D 181

Diamond needle files, feather edge

Diamond needle files can be used generally in tool making.

Special features:
- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

Profile	Width with coating [mm]	Height with coating [mm]	Total length [mm]	Coating length [mm]	Grit size		Item no.	Designation
Feather edge	5	2.4	140	70	D 91	1	15109061	DF 4182 D 91
					D 126	1	15109062	DF 4182 D 126

Diamond needle files, crossing oval

Diamond needle files can be used generally in tool making.

Special features:
- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

Profile	Width with coating [mm]	Height with coating [mm]	Total length [mm]	Coating length [mm]	Grit size		Item no.	Designation
Crossing oval shape	5	2.2	140	70	D 91	1	15110061	DF 4192 D 91
					D 126	1	15110062	DF 4192 D 126

Diamond needle files, barrette

Diamond needle files can be used generally in tool making.

Special features:
- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

Profile	Width with coating [mm]	Height with coating [mm]	Total length [mm]	Coating length [mm]	Grit size		Item no.	Designation
Barrette shape	5	2	140	70	D 91	1	15100061	DF 4102 D 91
					D 126	1	15100062	DF 4102 D 126

Diamond needle file sets

Diamond needle file sets are supplied in a sturdy, practical plastic box which protects the tools from damage. This is ideal for keeping in the tool trolley or workbench.

Contents:
Contains one each of the following needle files: hand, three square, square, half-round and round.

Special features:
- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

Grit size		Item no.	Designation
D 91	1	15842051	DF 4205 D 91
D 126	1	15842052	DF 4205 D 126
D 181	1	15842053	DF 4205 D 181

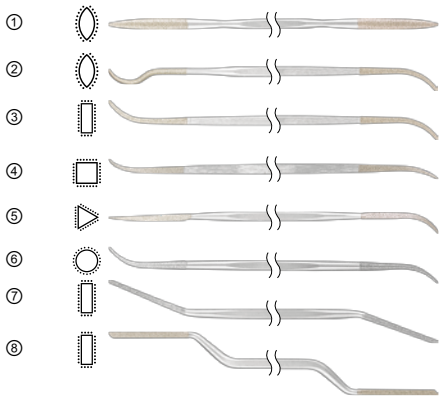
Diamond needle file sets

Diamond needle file sets are supplied in a sturdy, practical plastic box which protects the tools from damage. This is ideal for keeping in the tool trolley or workbench.

Contents:
Contains one each of the following needle files: hand, hand with round edges, flat, three square, square, half-round, round, knife, feather edge, crossing oval and barrette.

Special features:
- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

Grit size		Item no.	Designation
D 91	1	15842111	DF 4211 D 91
D 126	1	15842112	DF 4211 D 126
D 181	1	15842113	DF 4211 D 181



Diamond riffler files

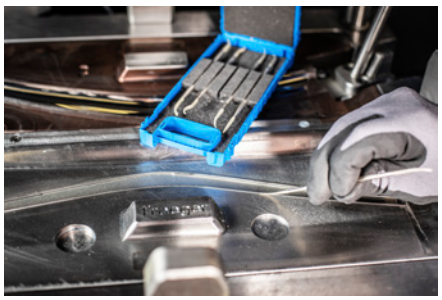
Diamond riffler files are used for work in hard-to-reach areas and on complex geometries. The coating length is 25 mm on both sides of the files.

Special features:
- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

Image	Profile	Width with coating [mm]	Height with coating [mm]	Total length [mm]	Double-sided coating length [mm]	Grit size		Item no.	Designation
①	Crossing oval shape	3.2	2	150	25	D 91	1	*15215070*	DF 15 D 91
						D 126	1	15215100	DF 15 D 126
②	Crossing oval shape	3.7	2	150	25	D 91	1	*15216070*	DF 16 D 91
						D 126	1	15216100	DF 16 D 126
③	Hand	3.1	3	150	25	D 91	1	15218070	DF 18 D 91
						D 126	1	15218100	DF 18 D 126
④	Square	2.5	2.5	150	25	D 91	1	*15220070*	DF 20 D 91
						D 126	1	15220100	DF 20 D 126
⑤	Three square	3	-	150	25	D 91	1	*15222070*	DF 22 D 91
						D 126	1	15222100	DF 22 D 126
⑥	Round	3	-	150	25	D 91	1	15224070	DF 24 D 91
						D 126	1	15224100	DF 24 D 126
⑦	Hand	3.8	1.6	150	25	D 91	1	*15209141*	DF 914 D 91
						D 126	1	15209142	DF 914 D 126
⑧	Hand	4	2	150	25	D 91	1	*15209181*	DF 918 D 91
						D 126	1	15209182	DF 918 D 126

Diamond riffler file set

The diamond riffler file set is supplied in a sturdy, practical plastic box which protects the tools from damage. This is ideal for keeping in the tool trolley or workbench.



Contents:
Contains one each of the following riffler files: crossing oval, hand, square, three square, round.

Special features:
- Sturdy plastic box to prevent damage.

Grit size		Item no.	Designation
D 126	1	15816242	DF 1624 D 126

Diamond handy files, hand

Diamond handy files have a forged shank which allows for use without an additional handle.

Special features:
- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

Profile	Width with coating [mm]	Height with coating [mm]	Total length [mm]	Coating length [mm]	Grit size		Item no.	Designation
Hand	10.3	2.8	215	100	D 126	1	15430202	DF 2601 D 126
					D 181	1	15430203	DF 2601 D 181

Diamond handy files, half-round

Diamond handy files have a forged shank which allows for use without an additional handle.

Special features:
- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

Profile	Width with coating [mm]	Height with coating [mm]	Total length [mm]	Coating length [mm]	Grit size		Item no.	Designation
Half-round	12.5	3.8	215	100	D 126	1	15431202	DF 2602 D 126
					D 181	1	15431203	DF 2602 D 181

Diamond handy files, three square

Diamond handy files have a forged shank which allows for use without an additional handle.

Special features:
- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

Profile	Width with coating [mm]	Total length [mm]	Coating length [mm]	Grit size		Item no.	Designation
Three square	10	215	100	D 126	1	15432202	DF 2607 D 126
				D 181	1	15432203	DF 2607 D 181

Diamond handy files, square

Diamond handy files have a forged shank which allows for use without an additional handle.

Special features:
- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

Profile	Width with coating [mm]	Height with coating [mm]	Total length [mm]	Coating length [mm]	Grit size		Item no.	Designation
Square	5.5	5.5	215	100	D 126	1	15433202	DF 2608 D 126
					D 181	1	15433203	DF 2608 D 181

Diamond handy files, round

Diamond handy files have a forged shank which allows for use without an additional handle.

Special features:
- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

Profile	Width with coating [mm]	Total length [mm]	Coating length [mm]	Grit size		Item no.	Designation
Round	6.7	215	100	D 126	1	15434202	DF 2610 D 126
				D 181	1	15434203	DF 2610 D 181

Diamond handy file sets

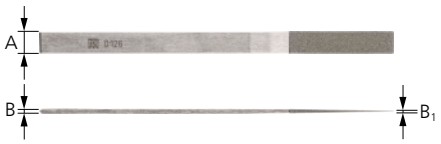
Diamond handy file sets are supplied in a sturdy, practical plastic box which protects the tools from damage. This is ideal for keeping in the tool trolley or workbench.

Contents:
Contains one each of the following handy files: hand, half-round, three square, square and round.

Special features:
- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

Grit size		Item no.	Designation
D 126	1	15826272	DF 2627 D 126
D 181	1	15826273	DF 2627 D 181

Conical diamond files



Conical diamond files

The conical diamond files are used in tool-making for particularly narrow, deep-set contours. The forged shank allows for use without an additional handle.

Special features:
- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

Width A [mm]	Thickness B [mm]	Thickness B_1 [mm]	Total length [mm]	Coating length [mm]	Grit size		Item no.	Designation
4	2	0.5	170	50	D 46	1	15917040	DF-K 170-4-2-0,5 D 46
					D 91	1	15917041	DF-K 170-4-2-0,5 D 91
					D 126	1	15917042	DF-K 170-4-2-0,5 D 126
6	2.4	0.5	170	50	D 46	1	15917060	DF-K 170-6-2,4-0,5 D 46
					D 91	1	15917061	DF-K 170-6-2,4-0,5 D 91
					D 126	1	15917062	DF-K 170-6-2,4-0,5 D 126
8	2.4	0.5	170	50	D 46	1	15917080	DF-K 170-8-2,4-0,5 D 46
					D 91	1	15917081	DF-K 170-8-2,4-0,5 D 91
					D 126	1	15917082	DF-K 170-8-2,4-0,5 D 126
10	2.5	0.5	170	50	D 46	1	15917100	DF-K 170-10-2,5-0,5 D 46
					D 91	1	15917101	DF-K 170-10-2,5-0,5 D 91
					D 126	1	15917102	DF-K 170-10-2,5-0,5 D 126

Diamond machinist's files, hand

Diamond machinist's files are used in many industries, such as the manufacturing of large tools. They are supplied with ergonomic file handles.

Special features:
- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

Profile	Width with coating [mm]	Height with coating [mm]	Total length [mm]	Coating length [mm]	Grit size		Item no.	Designation
Hand	10	3.2	100	85	D 126	1	15400126	DF 1112/100 D 126
					D 151	1	15400151	DF 1112/100 D 151
					D 251	1	15400251	DF 1112/100 D 251
	11.2	4.2	125	110	D 126	1	15401126	DF 1112/125 D 126
					D 151	1	*15401151*	DF 1112/125 D 151
	13	5	150	135	D 126	1	15401192	DF 1112/150 D 126
					D 151	1	15401195	DF 1112/150 D 151
					D 251	1	15401199	DF 1112/150 D 251
	22.5	5.5	200	180	D 151	1	15401204	DF 1112/200 D 151
					D 251	1	15401205	DF 1112/200 D 251

Diamond machinist's files, three square

Diamond machinist's files are used in many industries, such as the manufacturing of large tools. They are supplied with ergonomic file handles.

Special features:
- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

Profile	Width with coating [mm]	Total length [mm]	Coating length [mm]	Grit size		Item no.	Designation
Three square	7	100	85	D 126	1	15403126	DF 1132/100 D 126
				D 151	1	*15403151*	DF 1132/100 D 151
	14	200	180	D 151	1	15403204	DF 1132/200 D 151
				D 251	1	15403205	DF 1132/200 D 251

Diamond machinist's files, square

Diamond machinist's files are used in many industries, such as the manufacturing of large tools. They are supplied with ergonomic file handles.

Special features:
- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

Profile	Width with coating [mm]	Height with coating [mm]	Total length [mm]	Coating length [mm]	Grit size		Item no.	Designation
Square	7.5	7.5	200	180	D 151	1	15404204	DF 1142/200 D 151

Discontinued product

Diamond machinist's files, half-round pointed

Diamond machinist's files are used in many industries, such as the manufacturing of large tools. They are supplied with ergonomic file handles.

Special features:
- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

Profile	Width with coating [mm]	Height with coating [mm]	Total length [mm]	Coating length [mm]	Grit size		Item no.	Designation
Half-round pointed	12	4	100	85	D 126	1	15405126	DF 1152/100 D 126
					D 151	1	*15405151*	DF 1152/100 D 151
	22	6.5	200	180	D 151	1	15405204	DF 1152/200 D 151
					D 251	1	15405205	DF 1152/200 D 251

Diamond machinist's files, round

Diamond machinist's files are used in many industries, such as the manufacturing of large tools. They are supplied with ergonomic file handles.

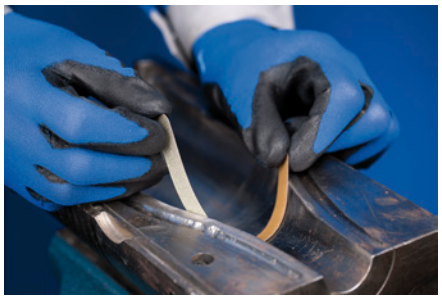
Special features:
- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

Profile	Width with coating [mm]	Total length [mm]	Coating length [mm]	Grit size		Item no.	Designation
Round	8	200	180	D 151	1	15406204	DF 1162/200 D 151

Flexible diamond files

Flexible diamond files

The flexible diamond files perfectly adapt to the workpiece surface. Due to its flexibility, they can be used in convex and concave contours with small radii.



Special features:
- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

Width with coating [mm]	Height with coating [mm]	Total length [mm]	Coating	Grit size		Item no.	Designation
0.5	14	165	one side	D 76	5	15600076	DF-FLEX 14-165 D 76
				D 126	5	15600126	DF-FLEX 14-165 D 126
				D 181	5	15600181	DF-FLEX 14-165 D 181

Discontinued product

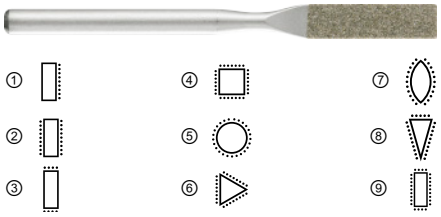
Diamond sheets

The diamond sheets are exceptionally well-suited to work on larger surfaces. Convex and concave contours can be worked on with relatively little effort.

Special features:
- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

Width with coating [mm]	Height with coating [mm]	Total length [mm]	Coating	Grit size		Item no.	Designation
0.7	30	170	complete	D 64	1	15600030	DBL 30-0,7-170 D 64
				D 126	1	15630126	DBL 30-0,7-170 D 126
1.3	35	350	complete	D 64	1	15635064	DBL 35-1,3-350 D 64
				D 126	1	15600035	DBL 35-1,3-350 D 126

Diamond files for manual filing tools



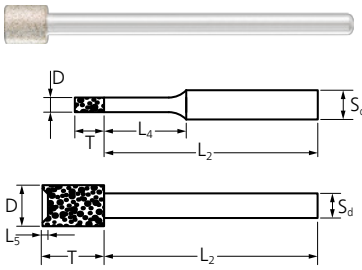
Diamond files for manual filing tools

Diamond files for manual filing tools are suitable for use in machines, as well as for hand filing. The shank diameter of the diamond files is 3 mm.

Special features:
- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

Image	Profile	Width with coating [mm]	Height with coating [mm]	Total length [mm]	Double-sided coating length [mm]	Coating	Grit size		Item no.	Designation
②	Hand	2	1	50	15	both sides	D 126	1	*15653102*	DF 5310 D 126
		3	1	50	15	both sides	D 126	1	15653112	DF 5311 D 126
		4	1	50	15	both sides	D 126	1	*15653122*	DF 5312 D 126
		5	2	50	15	both sides	D 126	1	*15653132*	DF 5313 D 126
				60	25	both sides	D 126	1	15653142	DF 5314 D 126
③	Hand	0.5	4	50	15	face-down	D 126	1	15653162	DF 5316 D 126
⑤	Round	1	-	50	15	complete	D 126	1	15653312	DF 5331 D 126
		2	-	50	15	complete	D 126	1	*15653352*	DF 5335 D 126
				60	25	complete	D 126	1	15653372	DF 5337 D 126
		3	-	50	15	complete	D 126	1	15653392	DF 5339 D 126
				60	25	complete	D 126	1	*15653432*	DF 5343 D 126
		4	-	50	15	complete	D 126	1	15653452	DF 5345 D 126
				60	25	complete	D 126	1	*15653472*	DF 5347 D 126
⑦	Crossing oval shape	3.5	2	50	15	complete	D 126	1	*15653562*	DF 5356 D 126
		6	3	60	25	complete	D 126	1	*15653622*	DF 5362 D 126
⑥	Three square	2	-	50	15	complete	D 126	1	15653652	DF 5365 D 126
		3.5	-	50	15	complete	D 126	1	15653672	DF 5367 D 126
				60	25	complete	D 126	1	*15653712*	DF 5371 D 126
		4.5	-	60	25	complete	D 126	1	*15653752*	DF 5375 D 126
④	Square	1.5	1.5	50	15	complete	D 126	1	*15653902*	DF 5390 D 126
		3	3	50	15	complete	D 126	1	*15653912*	DF 5391 D 126
		4	4	50	15	complete	D 126	1	*15653922*	DF 5392 D 126
⑨	Flat conical	3.3	1	55	16	complete	D 126	1	15601032	DF 0103 D 126
		6.3	1	55	16	complete	D 126	1	15601062	DF 0106/55 D 126
				73	16	complete	D 126	1	*15601064*	DF 0106/73 D 126

Discontinued product



Cylindrical shape ZY

The cylindrical shape ZY is suitable for grinding bores, radii and contours in stationary or manual applications.

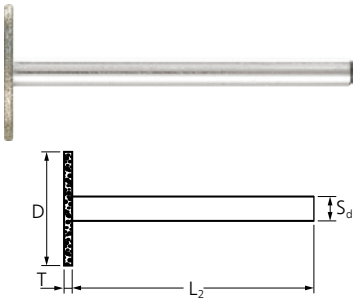
Special features:
- Ideal for work on tungsten carbide.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

D [mm]	T [mm]	S_d [mm]	L_2 [mm]	L_4 [mm]	Grit size		Item no.	Designation
0.5	2	3	38	5	D 64	5	36000506	DZY-A 0,5-2/3 D 64
0.8	2	3	38	5	D 64	5	36000806	DZY-A 0,8-2/3 D 64
1	4	3	36	9	D 64	5	36001006	DZY-A 1,0-4/3 D 64
					D 91	5	36001009	DZY-A 1,0-4/3 D 91
					D 126	5	36001010	DZY-A 1,0-4/3 D 126
1.2	4	3	36	9	D 64	5	*36001206*	DZY-A 1,2-4/3 D 64
					D 91	5	36001209	DZY-A 1,2-4/3 D 91
					D 126	5	36001210	DZY-A 1,2-4/3 D 126
1.4	4	3	36	9	D 64	5	*36001406*	DZY-A 1,4-4/3 D 64
					D 91	5	36001409	DZY-A 1,4-4/3 D 91
					D 126	5	36001410	DZY-A 1,4-4/3 D 126
1.6	4	3	36	10	D 91	5	36001609	DZY-A 1,6-4/3 D 91
					D 126	5	36001610	DZY-A 1,6-4/3 D 126
1.8	4	3	36	10	D 91	5	36001809	DZY-A 1,8-4/3 D 91
					D 126	5	36001810	DZY-A 1,8-4/3 D126
2	4	3	36	10	D 64	5	*36002006*	DZY-A 2,0-4/3 D 64
					D 91	5	36002009	DZY-A 2,0-4/3 D 91
					D 126	5	36002010	DZY-A 2,0-4/3 D 126
2.4	4	3	36	14	D 91	5	36002409	DZY-A 2,4-4/3 D 91
					D 126	5	36002410	DZY-A 2,4-4/3 D 126
2.6	4	3	36	14	D 91	5	*36002609*	DZY-A 2,6-4/3 D 91
					D 126	5	*36002610*	DZY-A 2,6-4/3 D 126
3	4	3	36	19	D 64	5	36003006	DZY-A 3,0-4/3 D 64
					D 91	5	36003009	DZY-A 3,0-4/3 D 91
					D 126	5	36003010	DZY-A 3,0-4/3 D 126
3.5	5	3	45	-	D 91	5	36003509	DZY-N 3,5-5/3 D 91
					D 126	5	36003510	DZY-N 3,5-5/3 D 126
4	5	3	45	-	D 91	5	36004009	DZY-N 4,0-5/3 D 91
					D 126	5	36004010	DZY-N 4,0-5/3 D 126
4.5	5	3	45	-	D 91	5	*36004509*	DZY-N 4,5-5/3 D 91
					D 126	5	*36004510*	DZY-N 4,5-5/3 D 126
5	5	3	45	-	D 91	5	36005009	DZY-N 5,0-5/3 D 91
					D 126	5	36005010	DZY-N 5,0-5/3 D 126
5.5	6	3	44	-	D 91	5	36005509	DZY-N 5,5-6/3 D 91
					D 126	5	36005510	DZY-N 5,5-6/3 D 126
					D 181	5	36005518	DZY-N 5,5-6/3 D 181
6	6	6	54	19	D 91	1	36006009	DZY-A 6,0-6/6 D 91
					D 126	1	36006010	DZY-A 6,0-6/6 D 126
					D 181	1	*36006018*	DZY-A 6,0-6/6 D 181
7	8	6	52	-	D 126	1	36007010	DZY-N 7,0-8/6 D 126
8	8	6	52	-	D 91	1	36008009	DZY-N 8,0-8/6 D 91

Continued on next page

Discontinued product

D [mm]	T [mm]	S_d [mm]	L_2 [mm]	L_4 [mm]	Grit size		Item no.	Designation
8	8	6	52	-	D 126	1	36008010	DZY-N 8,0-8/6 D 126
					D 181	1	*36008018*	DZY-N 8,0-8/6 D 181
9	8	6	52	-	D 126	1	*36009010*	DZY-N 9,0-8/6 D 126
10	8	6	52	-	D 91	1	*36010009*	DZY-N 10,0-8/6 D 91
					D 126	1	36010010	DZY-N 10,0-8/6 D 126
					D 181	1	*36010018*	DZY-N 10,0-8/6 D 181
12	8	6	52	-	D 91	1	36012009	DZY-N 12,0-8/6 D 91
					D 126	1	36012010	DZY-N 12,0-8/6 D 126
					D 181	1	*36012018*	DZY-N 12,0-8/6 D 181
15	10	6	50	-	D 126	1	36015010	DZY-N 15,0-10/6 D 126
18	10	6	50	-	D 126	1	36018010	DZY-N 18,0-10/6 D 126
20	10	6	50	-	D 126	1	36020010	DZY-N 20,0-10/6 D 126
15	10	10	110	-	D 126	1	36015110	DZY-N 15,0-10/10 D 126
25	10	12	110	-	D 126	1	36025110	DZY-N 25,0-10/12 D 126



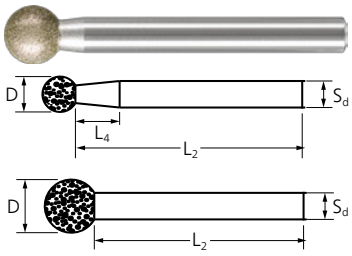
Special shape ZY

The special shape ZY is suitable for grinding slits and grooves in hard-to-reach areas.

Special features:
- Ideal for work on tungsten carbide.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

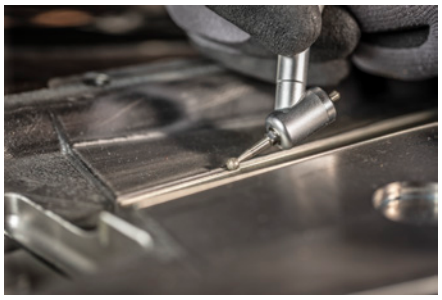
D [mm]	T [mm]	S_d [mm]	L_2 [mm]	Grit size		Item no.	Designation
8	0.5	3	35	D 64	1	36050806	DZY-N 8,0-0,5/3 D 64
14	0.5	3	35	D 64	1	36051406	DZY-N 14,0-0,5/3 D 64
	1	3	35	D 64	1	36051416	DZY-N 14,0-1,0/3 D 64
				D 91	1	36051419	DZY-N 14,0-1,0/3 D 91

Discontinued product



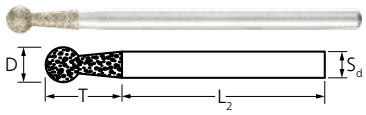
Ball shape KU

The ball shape KU is often used in manual applications. This shape is well-suited for engraving, contour grinding and deburring tasks.



Special features:
- Ideal for work on tungsten carbide.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

D [mm]	S_d [mm]	L_2 [mm]	L_4 [mm]	Grit size		Item no.	Designation
1	3	44	10	D 64	5	*36201006*	DKU-A 1,0/3 D 64
				D 91	5	36201009	DKU-A 1,0/3 D 91
				D 126	5	36201010	DKU-A 1,0/3 D 126
				D 181	5	*36201018*	DKU-A 1,0/3 D 181
2	3	43	8	D 64	5	*36202006*	DKU-A 2,0/3 D 64
				D 91	5	36202009	DKU-A 2,0/3 D 91
				D 126	5	36202010	DKU-A 2,0/3 D 126
				D 181	5	*36202018*	DKU-A 2,0/3 D 181
3	3	42	6	D 64	5	*36203006*	DKU-A 3,0/3 D 64
				D 91	5	36203009	DKU-A 3,0/3 D 91
				D 126	5	36203010	DKU-A 3,0/3 D 126
				D 181	5	*36203018*	DKU-A 3,0/3 D 181
4	3	41	5	D 91	5	36204009	DKU-A 4,0/3 D 91
				D 126	5	36204010	DKU-A 4,0/3 D 126
				D 181	5	36204018	DKU-A 4,0/3 D 181
5	3	40	2	D 91	5	36205009	DKU-A 5,0/3 D 91
				D 126	5	36205010	DKU-A 5,0/3 D 126
				D 181	5	36205018	DKU-A 5,0/3 D 181
6	3	39	-	D 91	1	36206009	DKU-N 6,0/3 D 91
				D 126	1	36206010	DKU-N 6,0/3 D 126
				D 181	1	36206018	DKU-N 6,0/3 D 181
8	6	52	10	D 126	1	36208010	DKU-A 8,0/6 D 126
10	6	50	5	D 126	1	36210010	DKU-A 10,0/6 D 126
12	6	48	-	D 126	1	36212010	DKU-N 12,0/6 D 126



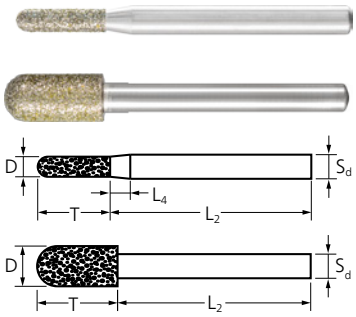
Special shape KU

Often used for deburring plastic profiles in manual applications. This shape is also coated with abrasive grain under the ball-shaped part of the grinding point on the stepped shank. The special shape provides optimum results when machining profiles.

Special features:
- Ideal for work on tungsten carbide.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

D [mm]	T [mm]	S_d [mm]	L_2 [mm]	Grit size		Item no.	Designation
3	10	3	40	D 181	1	36223018	DKU 3,0-10/3 D 181
4	10	3	40	D 181	1	36224018	DKU 4,0-10/3 D 181

Discontinued product

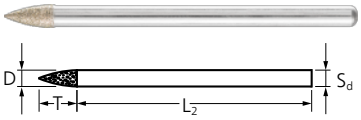


Cylindrical shape with radius end WR

The cylindrical shape with radius end WR is best suited to manual applications and can be used for a wide variety of deburring and grinding tasks.

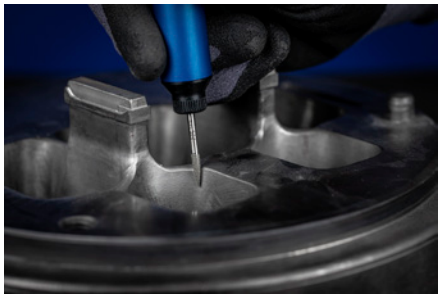
Special features:
- Ideal for work on tungsten carbide.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

D [mm]	T [mm]	S_d [mm]	L_2 [mm]	L_4 [mm]	Grit size		Item no.	Designation
5	18	6	50	5	D 126	1	36425026	DWR-A 5,0-18/6 D 126
					D 357	1	36425035	DWR-A 5,0-18/6 D 357
6	18	6	50	5	D 126	1	36426026	DWR-A 6,0-18/6 D 126
					D 357	1	36426035	DWR-A 6,0-18/6 D 357
10	20	6	50	-	D 126	1	36431026	DWR-N 10,0-20/6 D 126
					D 357	1	36431057	DWR-N 10,0-20/6 D 357



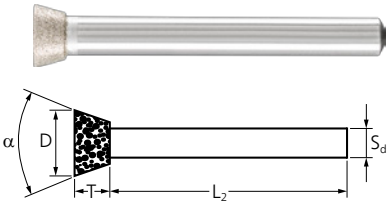
Pointed tree shape SPG

The pointed tree shape SPG is exceptionally well-suited to machining small holes or bores as well as for engraving work.



Special features:
- Ideal for work on tungsten carbide.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

D [mm]	T [mm]	S_d [mm]	L_2 [mm]	Grit size		Item no.	Designation
3	7	3	43	D 126	1	36443010	DSPG 3,0-7/3 D 126
	13	3	37	D 126	1	36443020	DSPG 3,0-13/3 D 126
6	18	6	50	D 126	1	36443030	DSPG 6,0-18/6 D 126



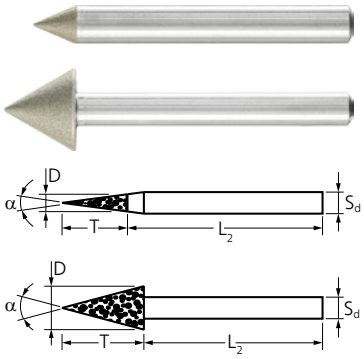
Cup shape KT

The cup shape KT is ideal for work on profiles, planar surfaces and ledges, without the cylindrical surface being damaged.

Special features:
- Ideal for work on tungsten carbide.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

D [mm]	T [mm]	α [°]	S_d [mm]	L_2 [mm]	Grit size		Item no.	Designation
3	7	8	3	43	D 126	1	36453010	DKT 3,0-8°/3 D 126
10	5	30	6	50	D 126	1	*36461010*	DKT 10,0-30°/6 D 126

Discontinued product



Conical pointed shape SK

The conical pointed shape SK is exceptionally well-suited to deburring bores, regrinding centring holes and chamfering.

Special features:
- Ideal for work on tungsten carbide.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

D [mm]	T [mm]	α [°]	S_d [mm]	L_2 [mm]	Grit size		Item no.	Designation
6	45	7	6	50	D 64	1	*36476007*	DSK 6,0-7°/6 D 64
					D 126	1	*36476026*	DSK 6,0-7°/6 D 126
	26	12	6	50	D 64	1	*36476012*	DSK 6,0-12°/6 D 64
					D 126	1	*36476120*	DSK 6,0-12°/6 D 126
	21	15	6	50	D 64	1	*36476015*	DSK 6,0-15°/6 D 64
					D 126	1	36476150	DSK 6,0-15°/6 D 126
	11	30	6	50	D 64	1	*36476006*	DSK 6,0-30°/6 D 64
					D 126	1	36476030	DSK 6,0-30°/6 D 126
	5	60	6	50	D 64	1	36476060	DSK 6,0-60°/6 D 64
					D 126	1	36470126	DSK 6,0-60°/6 D 126
10	9	60	6	50	D 64	1	36476104	DSK 10,0-60°/6 D 64
					D 126	1	36476106	DSK 10,0-60°/6 D 126
	5	90	6	50	D 64	1	36476124	DSK 10,0-90°/6 D 64
					D 126	1	36476126	DSK 10,0-90°/6 D 126
15	13	60	6	50	D 64	1	36476144	DSK 15,0-60°/6 D 64
					D 126	1	36476146	DSK 15,0-60°/6 D 126
	7.5	90	6	50	D 64	1	36476164	DSK 15,0-90°/6 D 64
					D 126	1	36476166	DSK 15,0-90°/6 D 126

Diamond grinding point set

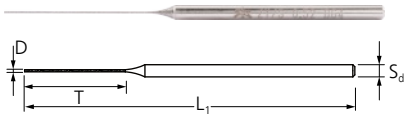
The set contains ten diamond grinding points with grit size D 126 in the most common shapes and dimensions. The sturdy plastic box protects the tools against dirt and damage.

Contents:
Contains one each of the following diamond grinding points: DZY-A 1,0-4/3 D 126, DZY-A 2,0-4/3 D 126, DZY-N 4,0-5/3 D 126, DZY-N 5,0-5/3 D 126, DZY-N 14,0-1,1/3 D 126, DKU-A 2,0/3 D 126, DKU-A 4,0/3 D 126, DKU-N 6,0/3 D 126, DSPG 3,0-7/3 D 126 and DKT 3,0-8°/3 D 126.

Special features:
- Ideal for work on tungsten carbide.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

S_d [mm]	Grit size		Item no.	Designation
3	D 126	1	36476067	D-Set/3 D126

Discontinued product



Cylindrical shape ZY/S

Very well suited to removing contamination from small holes in hard-to-reach places. The coating area is flexible thanks to the special tool geometry. Suitable for both manual applications and hand-guided rotating applications.

Special features:
- Excellent for grinding out and cleaning small holes.
- To achieve the best results, insert the diamond needle into the hole first and then slowly increase the rotational speed.
- High lateral loads should be avoided to ensure the needles have a long service life.

D [mm]	T [mm]	S_d [mm]	L_2 [mm]	L1 [mm]	Grit size		Item no.	Designation
0.42	20	3	60	80	D 46	5	36061222	DZY-A 0.42-20/3 D46
0.52	30	3	50	80	D 64	5	36061223	DZY-A 0.52-30/3 D64
0.62	30	3	50	80	D 64	5	36061224	DZY-A 0.62-30/3 D64
0.72	30	3	50	80	D 64	5	36061225	DZY-A 0.72-30/3 D64

Diamond needle set

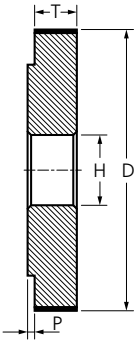
The set contains eight diamond needles, split into four pairs. The sturdy plastic box protects the tools against dirt and damage.

Contents:
The set comprises two each of the following:
DZY/S 0,42-20/3, D46, DZY/S 0,52-30/3, D64,
DZY/S 0,62-30/3, D64, DZY/S 0,72-30/3 D64.

Special features:
- Ideal for work on tungsten carbide.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

S_d [mm]	Grit size		Item no.	Designation
3	fine	1	36476059	D-Set/3 D46/64

Diamond grinding discs



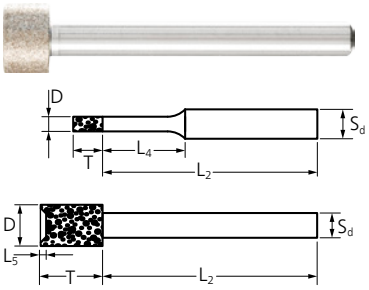
Grinding discs 1A1

Diamond grinding discs are intended for use on stationary machines. They have an additional centring shoulder which allows them to be accurately mounted and aligned on the machine spindle. Combined with a stable mandrel, these tools are ideal for work in deep-set or long bores.

Special features:
- Ideal for work on tungsten carbide.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

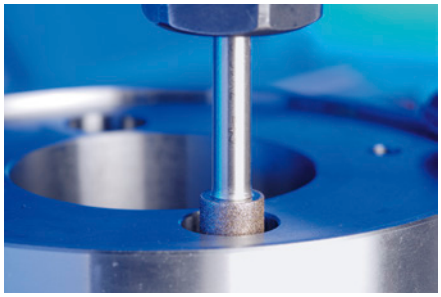
D [mm]	T [mm]	H [mm]	P [mm]	Grit size		Item no.	Designation
18	10	8	2	D 151	1	*36618015*	D1A1 18-10-8 D 151
20	10	8	2	D 151	1	*36622015*	D1A1 20-10-8 D 151
30	10	10	2	D 151	1	36623015	D1A1 30-10-10 D 151
40	10	10	2	D 151	1	36624015	D1A1 40-10-10 D 151
50	10	10	2	D 151	1	36625015	D1A1 50-10-10 D 151

Discontinued product



Cylindrical shape ZY

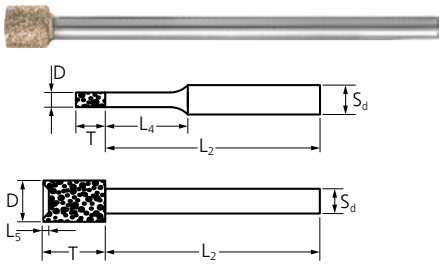
The cylindrical shape ZY is suitable for grinding bores, radii and contours in stationary or manual applications.



Special features:
- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.

D [mm]	T [mm]	S_d [mm]	L_2 [mm]	L_4 [mm]	Grit size		Item no.	Designation
0.5	2	3	38	5	B 64	5	36100506	BZY-A 0,5-2/3 B 64
0.8	2	3	38	5	B 64	5	36100806	BZY-A 0,8-2/3 B 64
1	4	3	36	9	B 64	5	36101006	BZY-A 1,0-4/3 B 64
					B 126	5	36101010	BZY-A 1,0-4/3 B 126
1.2	4	3	36	9	B 64	5	*36101206*	BZY-A 1,2-4/3 B 64
					B 126	5	36101210	BZY-A 1,2-4/3 B126
1.4	4	3	36	9	B 126	5	36101410	BZY-A 1,4-4/3 B 126
1.6	4	3	36	10	B 64	5	*36101606*	BZY-A 1,6-4/3 B 64
					B 126	5	36101610	BZY-A 1,6-4/3 B 126
1.8	4	3	36	10	B 126	5	*36101810*	BZY-A 1,8-4/3 B 126
2	4	3	36	10	B 64	5	36102006	BZY-A 2,0-4/3 B 64
					B 126	5	36102010	BZY-A 2,0-4/3 B 126
2.2	4	3	36	14	B 126	5	*36102210*	BZY-A 2,2-4/3 B 126
2.4	4	3	36	14	B 64	5	*36102406*	BZY-A 2,4-4/3 B 64
					B 126	5	36102410	BZY-A 2,4-4/3 B 126
2.6	4	3	36	14	B 64	5	*36102606*	BZY-A 2,6-4/3 B 64
					B 126	5	36102610	BZY-A 2,6-4/3 B 126
2.8	4	3	36	14	B 126	5	*36102810*	BZY-A 2,8-4/3 B 126
3	4	3	36	19	B 64	5	36103006	BZY-A 3,0-4/3 B 64
					B 126	5	36103010	BZY-A 3,0-4/3 B 126
3.5	5	3	45	-	B 64	5	36103506	BZY-N 3,5-5/3 B 64
					B 126	5	36103510	BZY-N 3,5-5/3 B 126
4	5	3	45	-	B 64	5	*36104006*	BZY-N 4,0-5/3 B 64
					B 126	5	36104010	BZY-N 4,0-5/3 B 126
4.5	5	3	45	-	B 126	5	36104510	BZY-N 4,5-5/3 B 126
5	5	3	45	-	B 64	5	36105006	BZY-N 5,0-5/3 B 64
					B 126	5	36105010	BZY-N 5,0-5/3 B 126
5.5	6	3	44	-	B 126	5	36105510	BZY-N 5,5-6/3 B 126
6	6	6	54	19	B 126	1	36106010	BZY-A 6,0-6/6 B 126
7	8	6	52	-	B 126	1	36107010	BZY-N 7,0-8/6 B 126
8	8	6	52	-	B 126	1	36108010	BZY-N 8,0-8/6 B 126
9	8	6	52	-	B 126	1	*36109010*	BZY-N 9,0-8/6 B 126
10	8	6	52	-	B 126	1	36110010	BZY-N 10,0-8/6 B 126
12	8	6	52	-	B 126	1	36112010	BZY-N 12,0-8/6 B 126
13	10	6	50	-	B 126	1	*36113010*	BZY-N 13,0-10/6 B 126
14	10	6	50	-	B 126	1	36114010	BZY-N 14,0-10/6 B 126
15	10	6	50	-	B 126	1	36115010	BZY-N 15,0-10/6 B 126
18	10	6	50	-	B 126	1	36118010	BZY-N 18,0-10/6 B 126
20	10	6	50	-	B 126	1	36120010	BZY-N 20,0-10/6 B 126
15	10	10	110	-	B 126	1	36115110	BZY-N 15,0-10/10 B 126

Discontinued product

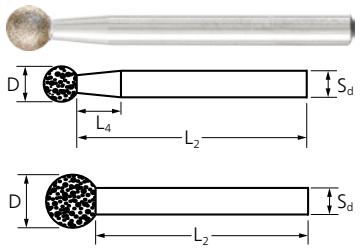


Cylindrical points with tungsten carbide shank

Cylindrical mounted points with tungsten carbide shanks are used for internal grinding on stationary machines. In internal grinding applications, tools with a tungsten carbide shank offer higher stock removal rates, superior surfaces and more precise shape and position tolerances.

Special features:
- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.

D [mm]	T [mm]	S_d [mm]	L_2 [mm]	L_4 [mm]	Grit size		Item no.	Designation
4	5	3	43	-	B 151	1	36154515	BZY-N 4,0-5/3 HM B 151
6	6	6	98	19	B 151	1	36136615	BZY-A 6,0-6/6 HM B 151
8	8	6	98	-	B 151	1	36158815	BZY-N 8,0-8/6 HM B 151
12	8	6	98	-	B 151	1	36161151	BZY-N 12,0-8/6 HM B 151

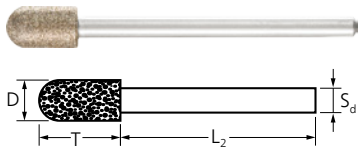


Ball shape KU

Spherical shape CBN grinding points are often used for engraving, contours and deburring work.

Special features:
- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.

D [mm]	S_d [mm]	L_2 [mm]	L_4 [mm]	Grit size		Item no.	Designation
1	3	44	10	B 126	5	36301010	BKU-A 1,0/3 B 126
2	3	43	8	B 126	5	36302010	BKU-A 2,0/3 B 126
3	3	42	6	B 64	5	*36303006*	BKU-A 3,0/3 B 64
				B 126	5	36303010	BKU-A 3,0/3 B 126
4	3	41	5	B 126	5	36304010	BKU-A 4,0/3 B 126
5	3	40	2	B 126	5	36305010	BKU-A 5,0/3 B 126
6	3	39	-	B 126	1	36306010	BKU-N 6,0/3 B 126
8	6	52	10	B 126	1	36308010	BKU-A 8,0/6 B 126
10	6	50	5	B 126	1	36310010	BKU-A 10,0/6 B 126
12	6	48	-	B 126	1	36312010	BKU-N 12,0/6 B 126



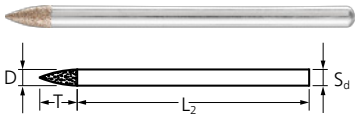
Cylindrical shape with radius end WR

The cylindrical shape with radius end WR is best suited to manual applications and can be used for a wide variety of deburring and grinding tasks.

Special features:
- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.

D [mm]	T [mm]	S_d [mm]	L_2 [mm]	Grit size		Item no.	Designation
5	10	3	40	B 126	1	36525010	BWR-N 5,0-10/3 B 126
6	10	3	40	B 126	1	36526010	BWR-N 6,0-10/3 B 126

Discontinued product

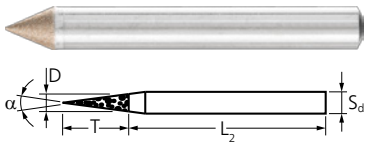


Pointed tree shape SPG

The pointed tree shape SPG is exceptionally well-suited to machining small holes or bores as well as for engraving work.

Special features:
- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.

D [mm]	T [mm]	S_d [mm]	L_2 [mm]	Grit size		Item no.	Designation
3	7	3	43	B 126	1	36543010	BSPG 3,0-7/3 B 126
6	18	6	50	B 126	1	36546010	BSPG 6,0-18/6 B 126



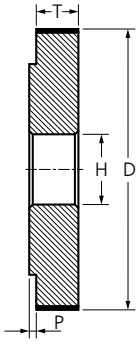
Conical pointed shape SK

The conical pointed shape SK is exceptionally well-suited to deburring bores, regrinding centring holes and chamfering.

Special features:
- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.

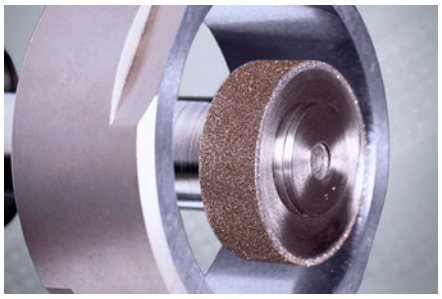
D [mm]	T [mm]	α [°]	S_d [mm]	L_2 [mm]	Grit size		Item no.	Designation
6	7	45	6	50	B 64	1	36576045	BSK 6,0-45°/6 B 64
	5	60	6	50	B 64	1	36576060	BSK 6,0-60°/6 B 64

CBN grinding discs



Grinding discs 1A1

CBN grinding discs are intended for use on stationary machines. They have an additional centring shoulder which allows them to be accurately mounted and aligned on the machine spindle. Combined with a stable mandrel, these tools are ideal for work in deep-set or long bores.



Special features:
- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.

D [mm]	T [mm]	H [mm]	P [mm]	Grit size		Item no.	Designation
20	10	8	2	B 151	1	36722015	B1A1 20-10-8 B 151
30	10	10	2	B 151	1	36723015	B1A1 30-10-10 B 151
40	10	10	2	B 151	1	*36724015*	B1A1 40-10-10 B 151
50	10	10	2	B 151	1	36725015	B1A1 50-10-10 B 151

Discontinued product

Diamond and CBN tools – electroplated bond

Diamond cut-off wheels

Shape D (continuous coating)

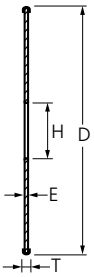
The continuous coating is particularly suitable for very fine separating cuts.

Shape G (with protective segments)

The continuous coating with protective segments facilitates optimum free-cutting.

Shape S 2 (segmented)

The segmentation allows particularly good chip removal.



Diamond cut-off wheels

Electroplated diamond cut-off wheels are used for cutting hard materials such as tungsten carbide or ceramics and fibre-reinforced plastics (GRP/CRP).

Special features:

- Ideal for work on hardened steel.
- No chemical wear thanks to the low working temperatures.
- Longer tool life due to harder diamond grain.

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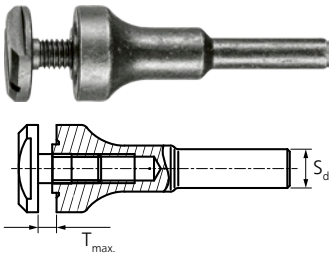
D [mm]	T [mm]	E [mm]	H [mm]	Shape	Protective seg. per side	Grit size		Item no.	Designation
Hard materials, e.g. glass, ceramic or tungsten carbide									
22	0.5	0.3	1.7	D	no	D 64	1	68402206	D1A1R 22-0,5-1,7 D 64 GAD
30	1	0.6	10	D	no	D 151	1	68403015	D1A1R 30-1-10 D 151 GAD
40	1	0.6	10	D	no	D 151	1	68404015	D1A1R 40-1-10 D 151 GAD
50	1.4	1	10	D	no	D 151	1	68405025	D1A1R 50-1,4-10 D 151 GAD
			6	D	no	D 151	1	68405015	D1A1R 50-1,4-6 D 151 GAD
125	1.4	1	20	D	no	D 151	1	68412115	D1A1R 125-1,4-20 D 151 GAD
Fibre-reinforced plastics (GRP and CRP) as well as pre-sintered and green ceramic									
50	2	1	10	D	no	D 357	1	68405164	D1A1R 50-2-10 D 357 GAD
				G	3	D 357	1	68405163	D1A1R 50-2-10 D 357 GAG
			6	D	no	D 357	1	68405064	D1A1R 50-2-6 D 357 GAD
				G	3	D 357	1	68405063	D1A1R 50-2-6 D 357 GAG
75	2	1	10	D	no	D 357	1	68407503	D1A1R 75-2-10 D 357 GAD
				G	3	D 357	1	68407103	D1A1R 75-2-10 D 357 GAG
100	2	1	22.23	D	no	D 427	1	68410237	D1A1R 100-2-22,23 D 427 GAD
				G	3	D 427	1	68410238	D1A1R 100-2-22,23 D 427 GAG
115	2	1	22.23	D	no	D 427	1	68411237	D1A1R 115-2-22,23 D 427 GAD
				G	3	D 427	1	68411238	D1A1R 115-2-22,23 D 427 GAG
125	2	1	22.23	D	no	D 427	1	68412237	D1A1R 125-2-22,23 D 427 GAD
				G	3	D 427	1	68412238	D1A1R 125-2-22,23 D 427 GAG
178	2	1	22.23	D	no	D 427	1	68417838	D1A1R 178-2-22,23 D 427 GAD
230	2.5	1.5	22.23	S2	no	D 427	1	68423227	D1A1RSS 230-2,5-22,23 D 427 GAS2
250	2.5	1.5	22.23	S2	no	D 427	1	68425037	D1A1RSS 250-2,5-22,23 D 427 GAS2
300	2.5	1.5	30	S2	no	D 427	1	68430037	D1A1RSS 300-2,5-30,0 D 427 GAS2
350	2.8	1.8	30	S2	no	D 427	1	68435037	D1A1RSS 350-2,8-30,0 D 427 GAS2
400	3.8	2.8	30	S2	no	D 427	1	68440137	D1A1RSS 400-3,8-30,0 D 427 GAS2

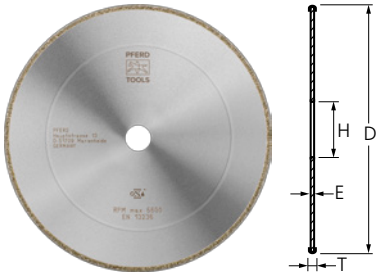


Arbor for diamond cut-off wheels

Accessory for mounting diamond cut-off wheels up to and including a diameter of 75 mm.

S_d [mm]	Suitable for hole diameter [mm]	$T_{max.}$ [mm]	Max. RPM [mm]		Item no.	Designation
3	1.7	1	28,000	1	68400317	BO 3/1,7 1
6	10	3	30,000	1	33512040	BO 6/10 3
8	10	3	30,000	1	33513900	BO 8/10 3

Diamond cut-off wheels and grinding points for foundries



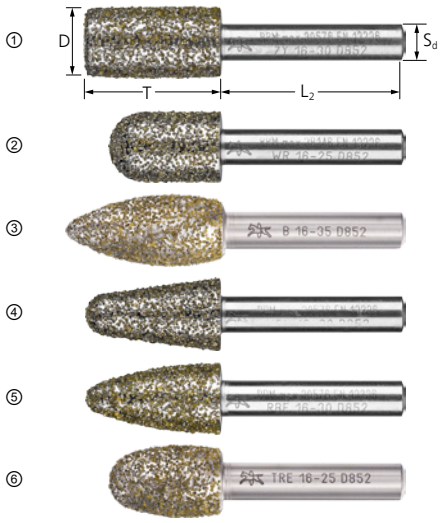
Diamond cut-off wheels for grey and nodular cast iron

Electroplated diamond cut-off wheels with grit size D 852 are exceptionally well-suited to machining grey cast iron and nodular cast iron (GG and GGG or GJL and GJS) as well as for use in robots. They have a very long tool life.

Special features:

- Ideal for work on deep areas because of the constant tool diameter.
- Easy and quick elimination of metal contamination.
- Minimized dust formation due to the monolayer coating and coarse chips.

D [mm]	T [mm]	E [mm]	H [mm]	Shape	Protective seg. per side	Grit size		Item no.	Designation
Grey and nodular cast iron (GG and GGG or GJL and GJS)									
230	3.8	1.8	22.23	D	no	D 852	1	68423228	D1A1R 230-3,8-22,23 D 852 GAD
400	4.5	2.5	40	D	no	D 852	1	68440037	D1A1R 400-4,5-40,0 D 852 GAD



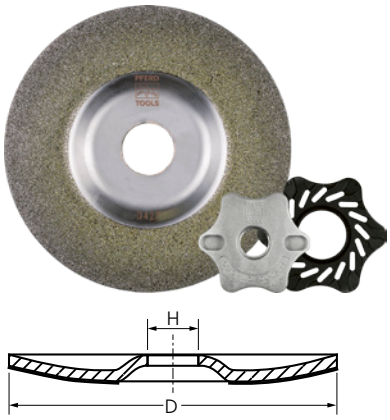
Diamond grinding points for grey and nodular cast iron

Diamond grinding points with grit size D 852 are exceptionally well-suited to machining grey cast iron and nodular cast iron (GG and GGG or GJL and GJS). They have an outstanding tool life.

- Easy and quick elimination of metal contamination thanks to diamond as a superhard abrasive.
- Lower dust load due to the dimensional stability of the grinding tool (no tool wear).

Special features:
- Fast, aggressive grinding with maximum stock removal rate.

Image	D [mm]	T [mm]	S_d [mm]	L_2 [mm]	Grit size		Item no.	Designation
Cylindrical shape ZY								
①	16	30	8	40	D 852	1	36015019	DZY-N 16-30/8 D 852
	20	30	8	40	D 852	1	36015020	DZY-N 20-30/8 D 852
	24	30	8	40	D 852	1	36015022	DZY-N 24-30/8 D 852
	45	6.5	8	40	D 852	1	36803965	DZY-N 45-6,5/8 D 852
Cylindrical shape with radius end WR								
②	10	20	6	40	D 852	1	36476061	DWR-N 10-20/6 D 852
	12	25	6	40	D 852	1	36476062	DWR-N 12-25/6 D 852
	16	25	8	40	D 852	1	36476063	DWR-N 16-25/8 D 852
	20	30	8	40	D 852	1	36476068	DWR-N 20-30/8 D 852
	24	30	8	40	D 852	1	36476069	DWR-N 24-30/8 D 852
Flame-shaped B								
③	16	35	8	40	D 852	1	36803966	DB-N 16-35/8 D 852
Conical shape KEL								
④	12	25	6	40	D 852	1	36476071	DKEL-N 12-25/6 D 852
	16	30	8	40	D 852	1	36476064	DKEL-N 16-30/8 D 852
	20	30	8	40	D 852	1	36476070	DKEL-N 20-30/8 D 852
	24	30	8	40	D 852	1	36476072	DKEL-N 24-30/8 D 852
Tree shape with radius end RBF								
⑤	12	25	6	40	D 852	1	36476065	DRBF-N 12-25/6 D 852
	16	30	8	40	D 852	1	36476066	DRBF-N 16-30/8 D 852
	20	30	8	40	D 852	1	36476073	DRBF-N 20-30/8 D 852
Oval shape TRE								
⑥	16	25	8	40	D 852	1	36803967	DTRE-N 16-25/8 D852



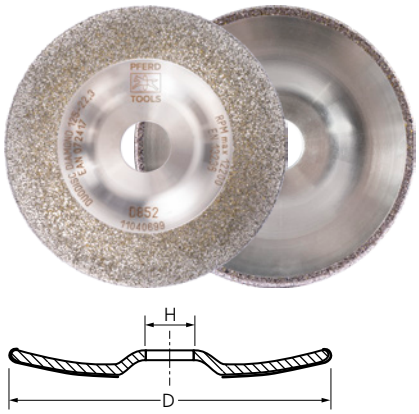
CC-GRIND SOLID DIAMOND

The CC-GRIND SOLID DIAMOND has been specially developed for applications on hard materials which cannot be machined with conventional tools made of aluminium oxide or silicon carbide.

Special features:
- Fast, aggressive grinding with maximum stock removal rate.
- Easy and quick elimination of metal contamination thanks to diamond as a superhard abrasive.
- Lower dust load due to the dimensional stability of the grinding tool (no tool wear).

D [mm]	H [mm]	Grit size	Max. RPM		Item no.	Designation
Integrated clamping flange set SFS CC-GRIND SOLID/FLEX 115/125 M14						
115	22.23	D 427	13,300	1	*36611542*	CC-GRIND SOLID DIAMOND 115-22.23 D 427
		D 852	13,300	1	*36611585*	CC-GRIND SOLID DIAMOND 115-22.23 D 852
125	22.23	D 427	12,200	1	36612542	CC-GRIND SOLID DIAMOND 125-22.23 D 427
		D 852	12,200	1	36612585	CC-GRIND SOLID DIAMOND 125-22.23 D 852

Diamond grinding discs DUODISC DIAMOND



DUODISC DIAMOND

Exceptionally well-suited to machining grey cast iron and nodular cast iron (GG and GGG or GJL and GJS). Ideal for roughing and deburring work in fettling shops. The coating geometry enables small feeders and risers to be separated.

Special features:
- Constant tool diameter.
- Reduced tool change times thanks to long tool life.
- Dust is minimized as the tool does not wear away.

D [mm]	H [mm]	Grit size	Max. RPM		Item no.	Designation
125	22.23	D 852	12,200	1	36803644	DUODISC DIAMOND 125-22.23 D852
150	22.23	D 852	10,200	1	36803860	DUODISC DIAMOND 150-22.23 D852

Discontinued product

Diamond sabre saw blades

Diamond sabre saw blades are suitable for work on fibre-reinforced plastics (GRP/CRP). Flexible cutting line for producing a wide range of geometries, plus a long tool life. Suitable for cutting out holes and for cutting.

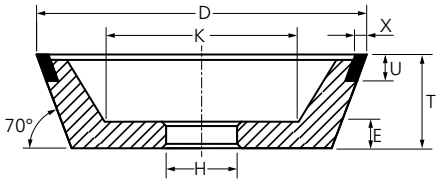
Total length [mm]	Total width [mm]	Coating length [mm]	Grit size		Item no.	Designation
75	2	50	D 357	1	15600571	DIA-SSB 50/75 D 357
100	2	75	D 357	1	15600791	DIA-SSB 75/100 D 357

Diamond and CBN tools – resinoid bond

Customer-specific tool solutions

In addition to the standard resinoid-bonded diamond and CBN grinding tools available from stock, customer-specific tool solutions are also possible. In your request, please specify the material to be worked, the application and the tool drive.

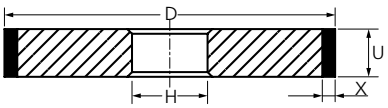
In the following tables, all the available shapes and dimensions are shown. For dimensions separated by slashes, please select the desired dimension.



Explanation of the abbreviations

α	= Mount angle
D [mm]	= Outer diameter
E [mm]	= Bottom thickness
H [mm]	= Bore diameter
J [mm]	= Smaller diameter
K [mm]	= Internal diameter
L_2 [mm]	= Shank length
L_4 [mm]	= Reduced diameter length
R [mm]	= Radius
S_1 [mm]	= Reduced diameter
S_d [mm]	= Shank diameter
T [mm]	= Total width
U [mm]	= Coating width
W [mm]	= Mounted point width
X [mm]	= Usable abrasive coating thickness

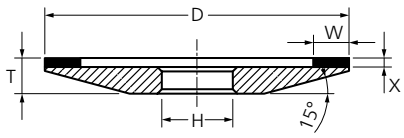
Shape 1A1



D [mm]	U [mm]	X [mm]	H [mm]
50	4 / 6 / 8 / 10 / 12	3 / 4 / 5 / 6	Please specify
75	6 / 8 / 10 / 12	3 / 4 / 5 / 6	
100	6 / 8 / 10 / 12	3 / 4 / 5 / 6	
125	8 / 10 / 12 / 15	3 / 4 / 5 / 6	
150	8 / 10 / 12 / 15 / 20	3 / 4 / 5 / 6	
175	10 / 12 / 15 / 20	3 / 4 / 5	
200	12 / 15 / 20 / 25 / 30	3 / 4 / 5 / 6	
225	12 / 15 / 20	3 / 4 / 5	
250	15 / 20 / 25 / 30 / 40 / 50	3 / 4 / 5	
300	15 / 20 / 25 / 30 / 40 / 50	3 / 4 / 5 / 6	
350	20 / 25 / 30 / 40 / 50	3 / 4 / 5 / 6	
400	25 / 30 / 40 / 50	3 / 4 / 5 / 6	
450	25 / 30 / 40 / 50	3 / 4 / 5 / 6	
500	30 / 40 / 50	3 / 4 / 5 / 6	
600	35 / 40	3 / 5	

Ordering example: 1A1 200-20-4-127 D 126 PHN C 75

Shape 4A2

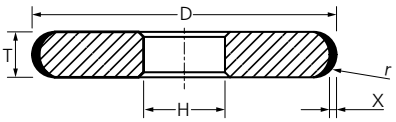


D [mm]	W [mm]	X [mm]	H [mm]	T - X [mm]
50	3 / 5	2 / 3 / 4	Please specify	5
75	3 / 5			5
100	3 / 4 / 5 / 6 / 8 / 10			6
125	3 / 4 / 5 / 6 / 8 / 10			7
150	3 / 4 / 5 / 6 / 8 / 10 / 12.5			9

Ordering example: 4A2 100-4-2-20 D 64 PHT C 50

Other dimensions on request!

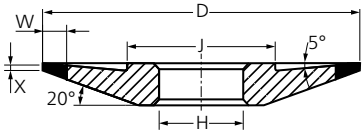
Shape 1FF1



D [mm]	T [mm]	X [mm]	R [mm]	H [mm]
50	6	2	3	Please specify
	8		4	
	10		5	
75	6		3	
	8		4	
	10		5	
100	6		3	
	8		4	
	10		5	
	12		6	
125	6		3	
	8		4	
	10		5	
	12		6	
150	6		3	
	8		4	
	10		5	
	12		6	

Ordering example: 1FF1 150-8/4R-2-32 D 126 PHN C 75

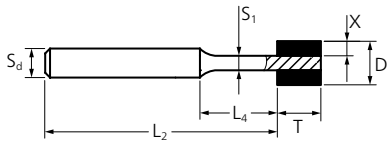
Shape 4BT9



D [mm]	W [mm]	X [mm]	H [mm]	T [mm]	J [mm]
75	6	1	Please specify	8	36
100	6 / 10	1		10	50
125	6 / 10	1		12	65
150	6 / 10	1		15	80

Ordering example: 4BT9 100-6-1-20 D 126 PHN C 75

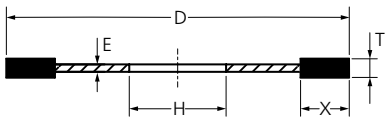
Shape 1A1W



D [mm]	T [mm]	X [mm]	S_d [mm]	L_2 [mm]	S_1 [mm]	L_4 [mm]
3	6	0.75	3	60	1.5	8
4	6	1	3	60	2	8
5	6	1.5	3	60	2	8
6	6	1.5	6	60	3	8
6	8	1.5	6	60	3	10
7	6	2	6	60	3	8
8	6	2	6	60	4	8
8	10	2	6	60	4	12
9	6	2	6	60	5	8

Ordering example: 1A1W 8-6-2-6-60-4-8 D 91 PHNT C 100

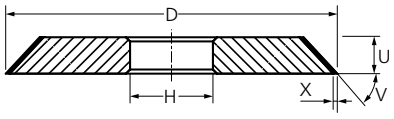
Shape 1A1R



D [mm]	T [mm]	X [mm]	H [mm]	E [mm]
75	1	5	H ≥ 20 mm	0,8
100	1	5	Please specify	0,8
125	1	5		0,8
150	1	7		0,8
175	1.2	7		0,9
200	1.2	7		0,9

Ordering example: 1A1R 150-1-7-20 D 151 PHT C 75

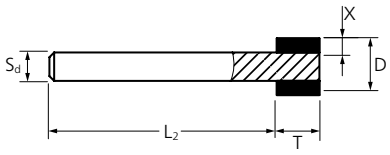
Shape 1V1



D [mm]	U [mm]	X [mm]	V	H [mm]
50	6 / 8	3 / 4	20° to 89°	Please specify
75	6 / 8 / 10		Please specify	
100	8 / 10			
125	8 / 10			
150	8 / 10			
175	10			
200	12 / 15			
250	15 / 20			
300	15 / 20			

Ordering example: 1V1 150-8-3/60°-32 B 126 PHN C 75

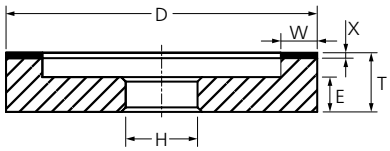
Shape 1A1W



D [mm]	T [mm]	X [mm]	S_d [mm]	L_2 [mm]
10	6	2	6	60
	10	2	6	60
12	6	2	6	60
	10	2	6	60
15	6	2	6	60
	10	2	6	60
18	6	2	6	60
	10	2	6	60
20	6	2	6	60
	10	2	6	60

Ordering example: 1A1W 15-10-2-6-60 D 91 PHNT C 100

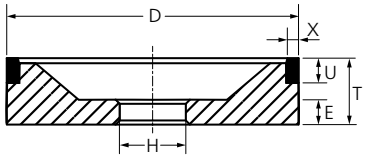
Shape 6A2



D [mm]	W [mm]	X [mm]	H [mm]	T - X [mm]	E [mm]
50	3 / 5	2 / 3 / 4	Please specify	20	10
75	3 / 5 / 10			20	10
100	5 / 8 / 10 / 12.5 / 15			20	10
125	4 / 6 / 8 / 10 / 12.5 / 15 / 20 / 25			23	10
150	6 / 8 / 10 / 12.5 / 15 / 20 / 25			23	10

Ordering example: 6A2 125-10-2-20 D 126 PHT C 50

Shape 6A9

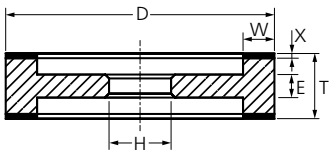


D [mm]	X [mm]	U [mm]	H [mm]	T [mm]	E [mm]
75	1.5	6 / 10	Please specify	25	10
	2	6 / 10		25	10
	3	6 / 10		25	10
100	1.5	6 / 10		30	10
	2	6 / 10		30	10
	3	6 / 10		30	10
125	1.5	6 / 10		30	10
	2	6 / 10		30	10
	3	6 / 10		30	10
150	1.5	6 / 10		35	10
	2	6 / 10		35	10
	3	6 / 10		35	10

Ordering example: 6A9 100-2-10-20 D 126 PHN C 100

Other dimensions on request!

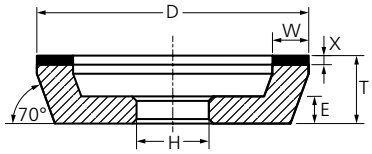
Shape 9A3



D [mm]	W [mm]	X [mm]	T [mm]	H [mm]	E [mm]
100	6 / 8 / 10	2 / 3	22	Please specify	10
125	6 / 8 / 10		22		10
150	4 / 6 / 8 / 10 / 15		25 / 35		14
175	3 / 4 / 6 / 8 / 10 / 15		25 / 35		14
200	8 / 10 / 15		30		18

Ordering example: 9A3 150-8-2-25-20 D 64 PHN C 75

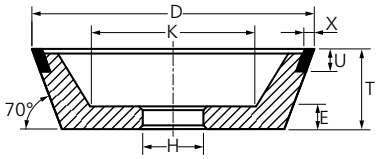
Shape 11A2



D [mm]	W [mm]	X [mm]	H [mm]	T - X [mm]	E [mm]
50	3 / 6	2 / 3 / 4	Please specify	20	8
75	3 / 6 / 10			20	10
100	4 / 6 / 8 / 10			20	10
125	5 / 6 / 8 / 10 / 12.5 / 15			23	10
150	6 / 8 / 10 / 12.5 / 15			23	10
175	6 / 10 / 12.5 / 15			25	12

Ordering example: 11A2 125-10-2-20 D 126 PHT C 50

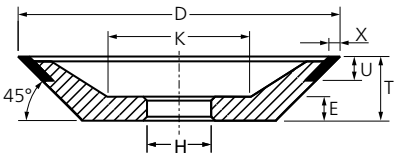
Shape 11V9



D [mm]	X [mm]	U [mm]	H [mm]	T [mm]	E [mm]	K [mm]
50	2	10	Please specify	30	10	22
75	1.5 / 2 / 3	10		30	10	41
100	1.5 / 2 / 3	10		35	10	60
125	1.5 / 2 / 3	10		40	10	75
150	1.5 / 2 / 3	10		50	10	89

Ordering example: 11V9 100-2-10-20 D 126 PHT C 75

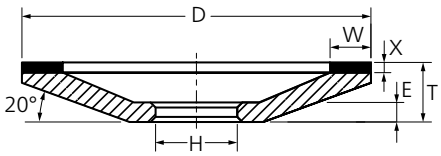
Shape 12V9



D [mm]	X [mm]	U [mm]	H [mm]	T [mm]	E [mm]	K [mm]
50	2	6	Please specify	20	10	24
75	2 / 3	10		20	10	41
100	1.5 / 2 / 3	10		20	10	62
125	1.5 / 2 / 3	10		25	10	76
150	2 / 3	10		25	10	97

Ordering example: 12V9 100-2-10-20 D 126 PHT C 75

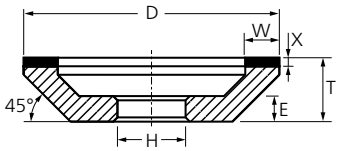
Shape 12A2/20°



D [mm]	W [mm]	X [mm]	H [mm]	T - X [mm]	E [mm]
75	3 / 5 / 6 / 8 / 10	2 / 3 / 4	Please specify	8	5
100	3 / 5 / 6 / 8 / 10			10	6
125	5 / 6 / 8 / 10			14	8
150	5 / 6 / 8 / 10			16	9
175	6 / 10			18	10
200	6 / 10			20	11
250	6 / 10			23	13

Ordering example: 12A2/20° 125-10-2-20 D 126 PHT C 50

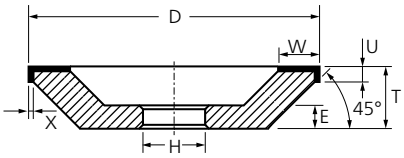
Shape 12A2/45°



D [mm]	W [mm]	X [mm]	H [mm]	T - X [mm]	E [mm]
50	3 / 6	2 / 3 / 4	Please specify	15	8
75	3 / 6 / 10			20	9
100	4 / 6 / 8 / 10			23	10
125	5 / 6 / 8 / 10 / 12.5 / 15			23	10
150	6 / 8 / 10 / 12.5 / 15			23	10
175	6 / 10 / 12.5 / 15			25	12

Ordering example: 12A2/45° 125-10-2-20 D 126 PHT C 50

Shape 12C9

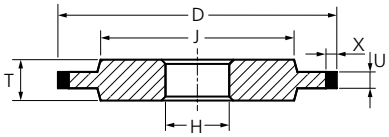


D [mm]	W [mm]	U [mm]	X [mm]	H [mm]	T [mm]	E [mm]
100	6 / 10	4	2	Please specify	26	10
	10	4	3		27	10
125	6 / 10	4	2		26	10
	10	4	3		27	10
	12.5	5	2		26	10
150	10	4	2		26	10
	10	4	3		27	10
	12.5 / 15	5	2		26	10

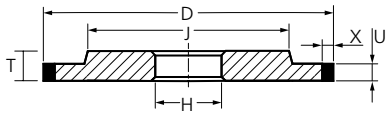
Ordering example: 12C9 100-10-4-2-20 D 64 PHN C 75

Other dimensions on request!

Shape 14A1



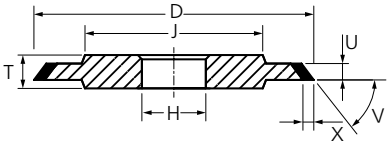
Shape 3A1



D [mm]	U [mm]	X [mm]	H [mm]	T [mm]	J [mm]
75	1 / 2	3 / 6	Please specify	6	50
	3 / 4 / 5	3 / 4 / 6		6	50
100	1 / 2	3 / 6		6	80
	3 / 4 / 5	3 / 4 / 6		6	70
125	1 / 2	3 / 6		7	105
	3 / 4 / 5 / 6	3 / 4 / 6		7	100
150	1 / 2	3 / 6		8	130
	3 / 4 / 5 / 6	3 / 4 / 6		8	120
175	1 / 2	3 / 6		10	150
	3 / 4 / 5 / 6 / 8	3 / 4 / 6		10	140
200	1 / 2	6		12	175
	3 / 4 / 5 / 6 / 8 / 10	3 / 4 / 5 / 6		12	160
225	6 / 8 / 10	3 / 4 / 5		12	180
250	6 / 8 / 10 / 12	3 / 4 / 5		15	200
300	8 / 10 / 12	3 / 4 / 5 / 6		15	250
350	10 / 12 / 15	3 / 4 / 5 / 6		20	300
400	10 / 12 / 15 / 20	3 / 4 / 5 / 6		25	350
450	10 / 12 / 15 / 20	3 / 4 / 5 / 6		25	400
500	15 / 20 / 25	3 / 4 / 5 / 6		30	450
600	15 / 20 / 25 / 30	3 / 5		35	550

Ordering example: 14A1 150-6-3-32 D 107 PHN C 100

Shape 14V1

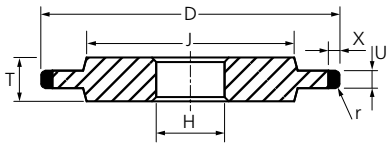


D [mm]	U [mm]	X [mm]	V	C [mm]	T [mm]	J [mm]
50	3 / 4 / 5	2 / 3 / 4	20° to 89°	Please specify	6	30
75	3 / 4 / 5				6	45
100	4 / 6		Please specify		8	70
125	4 / 6				8	100
150	4 / 6				8	120
175	4 / 6 / 8				10	140
200	4 / 6 / 8 / 10				12	160
250	4 / 6 / 8 / 10 / 12				15	200
300	4 / 6 / 8 / 10 / 12				15	250

Ordering example: 14V1 150-6-3/60°-32 B 126 PHN C 75

Other dimensions on request!

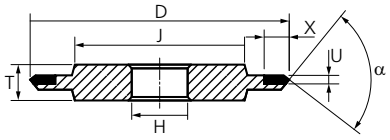
Shape 14F1



D [mm]	U [mm]	X [mm]	R [mm]	H [mm]	T [mm]	J [mm]
40	2	3 / 4 / 5 / 6	1	Please specify	6	25
	3		1.5		6	25
	4		2		6	25
50	2		1		6	30
	3		1.5		6	30
	4		2		6	30
75	2		1		6	50
	3		1.5		6	50
	4		2		6	50
100	2		1		6	70
	3		1.5		6	70
	4		2		6	70
125	2		1		8	100
	3		1.5		8	100
	4		2		8	100
150	2		1		8	120
	3		1.5		8	120
	4		2		8	120

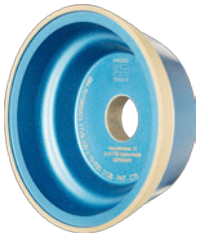
Ordering example: 14F1 150-2/1R-6-32 D 107 PHN C 125

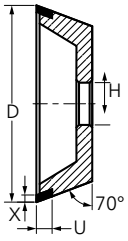
Shape 14E9



D [mm]	U [mm]	X [mm]	α	H [mm]	T [mm]	J [mm]
50	1 / 2	6	35° / 45° / 60° / 90°	Please specify	6	32
75	1 / 2	6	35° / 45° / 60° / 90°		6	50
100	1 / 2	6	35° / 45° / 60° / 90°		6	70
125	1 / 2	6	35° / 45° / 60° / 90°		8	100
150	1 / 2	6	35° / 45° / 60° / 90°		8	120

Ordering example: 14E9 150-2-6-60°-32 D 107 PHN C 125



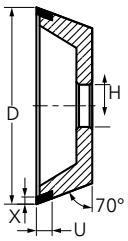


Shape 11V9, bond PHT

Phenolic resin bond for high-performance dry grinding. The PHT bond is designed for dry grinding and allows cool grinding, even without coolant.

Special features:
- The characteristics of the resinoid bond can be optimally adjusted to the application.
- Easy to dress.

Shape	D [mm]	X [mm]	U [mm]	H [mm]	Bond	Grit size		Item no.	Designation
11V9	100	2	10	20	PHT	D 126	1	68611021	11V9 100-2-10-20 D 126 PHT C75

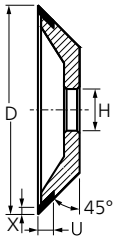


Shape 11V9, bond PHST

Phenolic resin bond for dry grinding. The PHT bond allows cool grinding, even without coolant. The PHST bond can withstand higher loads, i.e. it allows a higher infeed per stroke, but has a slightly shorter grinding time and tool life.

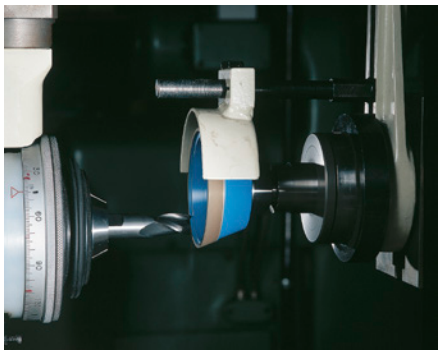
Special features:
- The characteristics of the resinoid bond can be optimally adjusted to the application.
- Easy to dress.

Shape	D [mm]	X [mm]	U [mm]	H [mm]	Bond	Grit size		Item no.	Designation
11V9	100	3	10	20	PHST	D 126	1	68611032	11V9 100-3-10-20 D 126 PHST C75



Shape 12V9

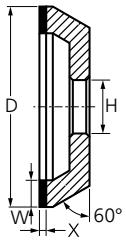
Phenolic resin bond for high-performance dry grinding. The PHT bond is designed for dry grinding and allows cool grinding, even without coolant.



Special features:
- The characteristics of the resinoid bond can be optimally adjusted to the application.
- Easy to dress.

Shape	D [mm]	X [mm]	U [mm]	H [mm]	Bond	Grit size		Item no.	Designation
12V9	100	2	10	20	PHT	D 126	1	*68612021*	12V9 100-2-10-20 D 126 PHT C75

Discontinued product

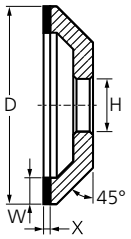


Shape 11A2/60°

Phenolic resin bond for high-performance dry grinding. The PHT bond is designed for dry grinding and allows cool grinding, even without coolant.

Special features:
- The characteristics of the resinoid bond can be optimally adjusted to the application.
- Easy to dress.

Shape	D [mm]	W [mm]	X [mm]	H [mm]	Bond	Grit size		Item no.	Designation
11A2/60°	100	8	2	20	PHT	D 126	1	68613081	11A2/60° 100-8-2-20 D 126 PHT C75
						D 64	1	68613086	11A2/60° 100-8-2-20 D 64 PHT C75

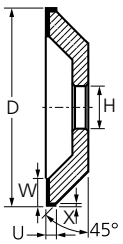


Shape 12A2/45°

Phenolic resin bond for high-performance dry grinding. The PHT bond is designed for dry grinding and allows cool grinding, even without coolant.

Special features:
- The characteristics of the resinoid bond can be optimally adjusted to the application.
- Easy to dress.

Shape	D [mm]	W [mm]	X [mm]	H [mm]	Bond	Grit size		Item no.	Designation
12A2/45°	125	10	2	20	PHT	D 126	1	68612101	12A2/45° 125-10-2-20 D 126 PHT C75
						D 64	1	68612106	12A2/45° 125-10-2-20 D 64 PHT C50

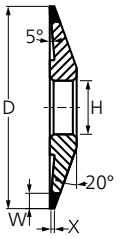


Shape 12C9

Phenolic resin bond for high-performance dry grinding. The PHT bond is designed for dry grinding and allows cool grinding, even without coolant.

Special features:
- The characteristics of the resinoid bond can be optimally adjusted to the application.
- Easy to dress.

Shape	D [mm]	W [mm]	X [mm]	U [mm]	H [mm]	Bond	Grit size		Item no.	Designation
12C9	100	10	3	4	20	PHT	D 126	1	68612023	12C9 100-10-4-3-20 D 126 PHT C75

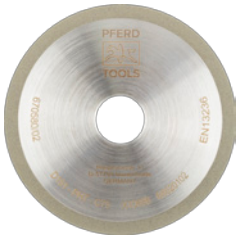


Shape 4BT9

Phenolic resin bond for high-performance dry grinding. The PHT bond is designed for dry grinding and allows cool grinding, even without coolant.

Special features:
- The characteristics of the resinoid bond can be optimally adjusted to the application.
- Easy to dress.

Shape	D [mm]	W [mm]	X [mm]	H [mm]	Bond	Grit size		Item no.	Designation
4BT9	100	6	1	20	PHT	D 126	1	68615101	4BT9 100-6-1-20 D 126 PHT C75



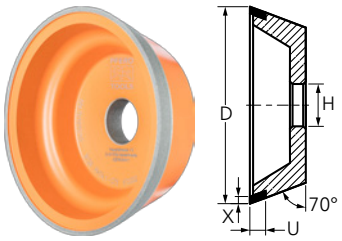
Shape 1A1R

Phenolic resin bond for high-performance dry grinding. The PHT bond is designed for dry grinding and allows cool grinding, even without coolant.

Special features:
- The characteristics of the resinoid bond can be optimally adjusted to the application.
- Easy to dress.

Shape	D [mm]	T [mm]	X [mm]	H [mm]	Bond	Grit size		Item no.	Designation
1A1R	100	1	5	20	PHT	D 151	1	68620102	1A1R 100-1-5-20 D 151 PHT C75
	150	1	7	20	PHT	D 151	1	68620152	1A1R 150-1-7-20 D 151 PHT C75

CBN grinding tools

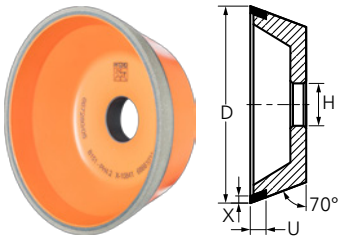


Shape 11V9

PH 4.1 is a phenolic resin bond for maximum stock removal rates. Very long tool life and suitable for dry and wet grinding. Only for 11V9 and 12V9 up to dia. 150 mm.

Special features:
- The characteristics of the resinoid bond can be optimally adjusted to the application.
- Easy to dress.

Shape	D [mm]	X [mm]	U [mm]	H [mm]	Bond	Grit size		Item no.	Designation
11V9	100	2	10	20	PH 4.1	B 126	1	*68664101*	11V9 100-2-10-20 B 126 PH 4.1 C75

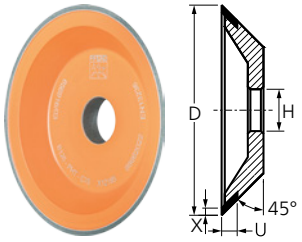


Shape 11V9, bond PH 4.2

The PH 4.2 bond is a high-performance bond for cool dry grinding at low infeed rates. Only for 11V9 and 12V9 up to dia. 150 mm.

Special features:
- The characteristics of the resinoid bond can be optimally adjusted to the application.
- Easy to dress.

Shape	D [mm]	X [mm]	U [mm]	H [mm]	Bond	Grit size		Item no.	Designation
11V9	100	2	10	20	PH 4.2	B 151	1	68661032	11V9 100-2-10-20 B 151 PH 4.2



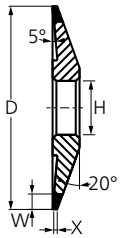
Shape 12V9

Phenolic resin bond for high-performance dry grinding. The PHT bond is designed for dry grinding and allows cool grinding, even without coolant.

Special features:
- The characteristics of the resinoid bond can be optimally adjusted to the application.
- Easy to dress.

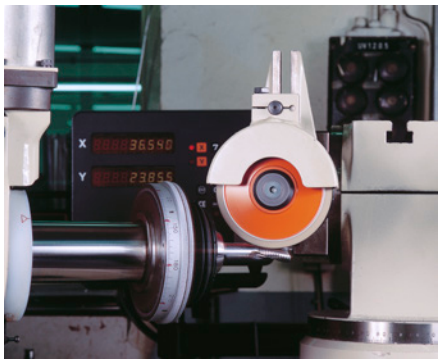
Shape	D [mm]	X [mm]	U [mm]	H [mm]	Bond	Grit size		Item no.	Designation
12V9	100	2	10	20	PHT	B 126	1	*68662022*	12V9 100-2-10-20 B 126 PHT C75

Discontinued product



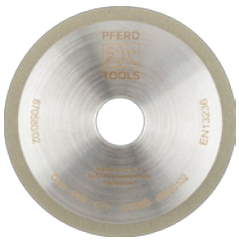
Shape 4BT9

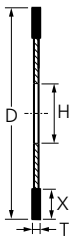
Phenolic resin bond for high-performance dry grinding. The PHT bond is designed for dry grinding and allows cool grinding, even without coolant.



Special features:
- The characteristics of the resinoid bond can be optimally adjusted to the application.
- Easy to dress.

Shape	D [mm]	W [mm]	X [mm]	H [mm]	Bond	Grit size		Item no.	Designation
4BT9	100	6	1	20	PHT	B 126	1	68665101	4BT9 100-6-1-20 B 126 PHT C75





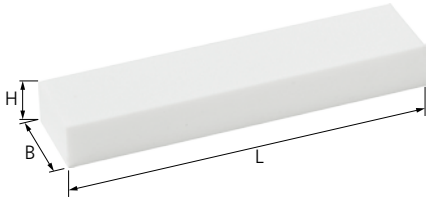
Shape 1A1R

Phenolic resin bond for high-performance dry grinding. The PHT bond is designed for dry grinding and allows cool grinding, even without coolant.

Special features:
- The characteristics of the resinoid bond can be optimally adjusted to the application.
- Easy to dress.

Shape	D [mm]	T [mm]	X [mm]	H [mm]	Bond	Grit size		Item no.	Designation
1A1R	100	1	5	20	PHT	B 151	1	68670102	1A1R 100-1-5-20 B 151 PHT C100

Sharpening block for diamond and CBN tools



Sharpening block

Used to restore the sharpness of resinoid-bonded diamond and CBN grinding discs. The sharpening block is first soaked in coolant and then fed in. The grinding process restores the sharpness very quickly.

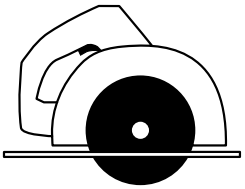
L [mm]	B [mm]	H [mm]		Item no.	Designation
100	24	13	5	68402413	SBL 1002413

Diamond tools for the construction industry
General information

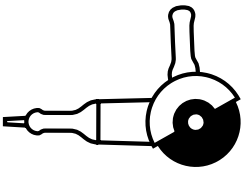
In the demanding world of the construction industry, precision, efficiency and durability are crucial. When it comes to working on hard materials such as concrete, asphalt, granite or tiles, conventional tools will quickly reach their limits. This is where PFERD TOOLS diamond tools come in – the ideal solution for demanding projects. PFERD TOOLS diamond tools achieve clean, precise cuts and perfect surface results – even in the most difficult of applications.

The extensive range of diamond tools for the construction industry comprises cut-off wheels along with dry drill bits and grinding discs in various types, tailored to the application and/or the material to be processed. You can rely on the tried-and-tested PFERD TOOLS quality to make your construction projects safer, more efficient and more successful.

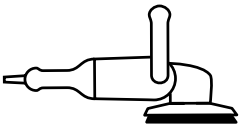
Suitable tool drives



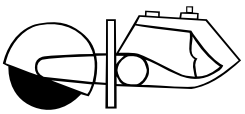
Manual circular saw



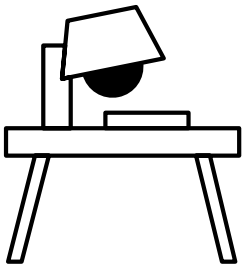
Angle grinder



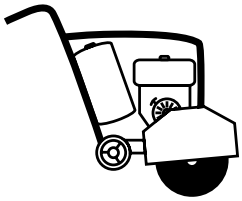
Concrete grinder



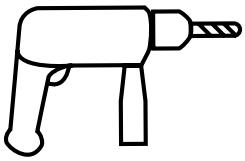
Petrol cutter



Circular bench saw



Joint cutter



Power drill

Diamond tools for the construction industry
General information

Safety notes

- Observe any usage restrictions, warnings and safety notes:

Wear eye protection!

Wear hearing protection!

Wear a dust mask!

Wear gloves!

Follow the safety instructions!

Not permitted for face grinding!

Do not use if damaged!

Organization for the Safety of Abrasives (oSa)

Together with other renowned manufacturers, PFERD TOOLS has voluntarily undertaken to produce quality tools conforming to the most exacting safety standards. Member companies of oSa (the Organization for the Safety of Abrasives) are committed to continuous product safety and quality monitoring. Products from PFERD TOOLS carry the oSa mark. Scan the QR code for further information.

Safety standard:

- PFERD TOOLS diamond tools conform to the highest safety requirements in accordance with EN 13236 “Safety requirements for superabrasive products”.

POS packaging

PFERD TOOLS offers diamond tools for the construction industry in promotional individual packaging. The addition of “POS” in the designation indicates all diamond tools in POS packaging.

Advantages:

- Functional European standard hole mounting for optimum product presentation on the sales wall.
- Product is easily recognizable through the viewing window.

Diamond cut-off wheels for the construction industry

PFERD TOOLS diamond cut-off wheels are manufactured in compliance with the highest quality and safety standards. They guarantee optimum cutting results and allow efficient processing of different materials, e.g. concrete, exposed aggregate concrete, clinker brick, hard stone, granite and other abrasive building materials. The product range offers the best tool for any application.

Diamond tools for the construction industry

Diamond cut-off wheels for the construction industry

PFERD TOOLS

Explanation of item designation

DS 230 x 2,8 x 22,3 PSF
① ② ③ ④ ⑤

① **Description and shape of the tool:** (see figures on right)
② **Outer diameter:** Outer dia. D in [mm]
③ **Wheel thickness:** Wheel thickness T in [mm]
④ **Bore diameter:** Bore dia. H in [mm]
⑤ **PFERD TOOLS product line:** Universal Line PSF

The PFERD TOOLS item designation corresponds to the designation in accordance with EN 13236.

The quick way to find the perfect tool

Application	Material	Tools	
Aggressive, fast cutting	■ Concrete (medium-hard, reinforced, hard) ■ Aerated concrete ■ Pumice ■ Brick ■ Soft clinker brick ■ Sand-lime brick	Cut-off wheels of the type DS ■ Start Line START ■ Universal Line PSF ■ Performance Line SG ■ Special Line SGP	
	■ Asphalt	Cut-off wheels of the type DS AS ■ Performance Line SG	
Easy cutting with high cutting quality	■ Fresh concrete ■ Screed ■ Firebrick	Cut-off wheels of the type DG ■ Performance Line SG	
	■ Sandstone ■ Clay brick ■ Slate ■ Granite ■ Marble	Cut-off wheels of the type DG ■ Start Line START ■ Universal Line PSF ■ Performance Line SG	
Cutting without edge breakage	■ Glazed tiles ■ Ceramic tiles ■ Porcelain stoneware ■ Slate ■ Marble	Cut-off wheels of the type DG FL ■ Universal Line PSF ■ Performance Line SG	

5

Shapes

PFERD TOOLS diamond cut-off wheels are available in four types tailored to different materials to ensure the best results each time.

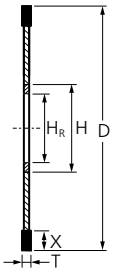
Shape DS
■ Segmented type for fast cutting

Shape DS AS
■ Segmented type for fast cutting of asphalt

Shape DG
■ Type with continuous rim for easy cutting (TURBO)

Shape DG FL
■ Type with continuous rim for very fine cutting, e.g. tiles and glazed tiles

Diamond tools for the construction industry
Segmented diamond cut-off wheels for fast cutting

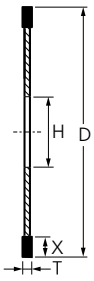


DS START type

General-purpose segmented-rim tool for aggressive, fast cutting with high cutting performance and a good tool life.

Special features:
- High diamond qualities.
- Good cutting characteristics and short cutting times.
- Good ease of cutting and high economic efficiency.

D [mm]	T [mm]	H [mm]	H_R [mm]	X [mm]	Max. RPM		Item no.	Designation
100	1.6	20	16	7	15,300	1	68300037	DS 100x1.6x16/20 START
110	1.6	20	-	7	13,800	1	68300052	DS 110X1.6X20 START
115	1.6	22.23	-	7	13,300	1	68300044	DS 115x1.6x22.23 START
125	1.6	22.23	-	7	12,200	1	68300045	DS 125x1.6x22.23 START
178	2	22.23	-	7	8,600	1	68300038	DS 178x2.0x22.23 START
230	2.3	22.23	-	7	6,600	1	68300039	DS 230x2.3x22.23 START
300	2.8	25.4	20	8	6,400	1	68300053	DS 300X2.8X20/25.4 START
350	3.2	25.4	-	8	5,400	1	68300047	DS 350x3.2x25.4 START
400	3.2	25.4	-	10	4,800	1	68300054	DS 400X3.2X25.4 START
450	3.2	25.4	-	10	4,200	1	68300055	DS 450X3.2X25.4 START



DS PSF type

General-purpose segmented-edge tool for aggressive, fast cutting with high cutting performance and an ideal tool life. With laser-welded segments.

Special features:
- High diamond qualities.
- Excellent cutting characteristics and short cutting times.
- High ease of cutting and economic efficiency.

D [mm]	T [mm]	H [mm]	X [mm]	Max. RPM		Item no.	Designation
115	2.2	22.23	10	13,300	1	68011221	DS 115 x 2,2 x 22,23 PSF
125	2.2	22.23	10	12,200	1	68012221	DS 125 x 2,2 x 22,23 PSF
150	2.2	22.23	10	10,200	1	68300102	DS 150x2.2x22.23 PSF
178	2.4	22.23	10	8,600	1	68017221	DS 178 x 2,4 x 22,23 PSF
230	2.4	22.23	10	6,600	1	68023223	DS 230 x 2,4 x 22,23 PSF

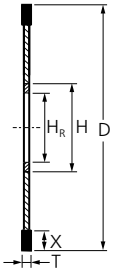
5

New item

Diamond tools for the construction industry

Segmented diamond cut-off wheels for fast cutting

PFERD TOOLS



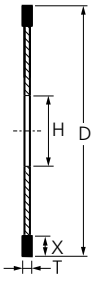
DS SG type

High-performance segmented-edge tool for aggressive, fast cutting of hard materials with very high cutting performance and outstanding tool life. With laser-welded segments.

Special features:

- High diamond qualities.
- Excellent cutting characteristics and short cutting times.
- High ease of cutting and economic efficiency.

D [mm]	T [mm]	H [mm]	H_R [mm]	X [mm]	Max. RPM		Item no.	Designation
115	2.4	22.23	-	12	13,300	1	68000041	DS 115 x 2,4 x 22,23 SG
125	2.4	22.23	-	12	12,200	1	68000042	DS 125 x 2,4 x 22,23 SG
150	2.4	22.23	-	12	10,200	1	68000059	DS 150x2.2x22.23 SG
178	2.6	22.23	-	12	8,600	1	68000043	DS 178 x 2,6 x 22,23 SG
230	2.8	22.23	-	12	6,600	1	68000044	DS 230 x 2,8 x 22,23 SG
300	2.8	20	-	10	6,400	1	*68000045*	DS 300 x 2,8 x 20,0 SG
		25.4	20	12	6,400	1	68000046	DS 300 x 2,8 x 25,4 SG
350	2.8	20	-	10	5,400	1	*68000047*	DS 350 x 2,8 x 20,0 SG
		25.4	20	12	5,400	1	68000048	DS 350 x 2,8 x 25,4 SG
400	3.2	25.4	20	12	4,800	1	68000049	DS 400 x 3,2 x 25,4 SG



DS SGP type

High-performance segmented-edge tool for aggressive, fast cutting of hard materials with ultimate cutting performance and outstanding tool life. With laser-welded segments.

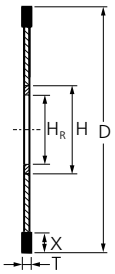
Special features:

- High diamond qualities.
- Excellent cutting characteristics and short cutting times.
- High ease of cutting and economic efficiency.

D [mm]	T [mm]	H [mm]	X [mm]	Max. RPM		Item no.	Designation
115	2.2	22.23	12	13,300	1	68000036	DS 115 x 2.2 x 22.23 SGP
125	2.2	22.23	12	12,200	1	68000037	DS 125 x 2.2 x 22.23 SGP
178	2.4	22.23	12	8,500	1	68000038	DS 178 x 2.4 x 22.23 SGP
230	2.6	22.23	12	6,600	1	68000039	DS 230 x 2.4 x 22.23 SGP
300	2.8	25.4	12	6,400	1	68000040	DS 300 x 3 x 25.4 SGP
350	3.2	25.4	12	5,500	1	68000056	DS 350 x 3 x 25.4 SGP
400	3.2	25.4	12	4,800	1	68000057	DS 400 x 3.5 x 25.4 SGP

New item
Discontinued product

Diamond tools for the construction industry
Segmented diamond cut-off wheels for fast cutting

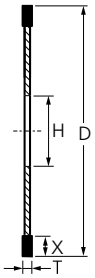


DS AS SG type

High-performance segmented-edge tool for aggressive, fast cutting of asphalt with very high cutting performance and outstanding tool life.

Special features:
- High diamond qualities.
- Good cutting characteristics and short cutting times.
- Good ease of cutting and high economic efficiency.

D [mm]	T [mm]	H [mm]	H_R [mm]	X [mm]	Max. RPM		Item no.	Designation
300	2.8	25.4	20	10	6,400	1	68300104	DS 300 x 2.8 x 25.4 AS SG
350	3.2	25.4	-	10	5,400	1	68300105	DS 350 x 3.2 x 25.4 AS SG
400	3.2	25.4	-	10	4,800	1	68300106	DS 400 x 3.6 x 25.4 AS SG
450	3.6	25.4	-	10	4,200	1	68300107	DS 450 x 3.6 x 25.4 AS SG



DS type, vacuum-brazed

Segmented, vacuum-brazed diamond cut-off wheels are exceptionally well suited to general machining work on a wide range of materials. The vacuum brazing process ensures that the diamond coating adheres firmly to the main body. This optimizes the cutting performance and service life.

Special features:
- Constant cutting speed due to consistent tool diameter.
- Long service life thanks to vacuum brazing process.
- Minimized dust formation due to the monolayer coating and coarse chips.

D [mm]	T [mm]	H [mm]	X [mm]	Max. RPM		Item no.	Designation
115	2.8	22.23	10	13,300	1	68300108	DS 115x2,8x22,23 VG
125	2.8	22.23	10	12,200	1	68300109	DS 125x2,8x22,23 VG
180	3.1	22.23	10	8,500	1	68300110	DS 180x3,1x22,23 VG
230	3.1	22.23	10	6,600	1	68300111	DS 230x3,1x22,23 VG

Diamond cut-off wheel set

The set comprises one each of cut-off wheels types DS, DG and DG FL with a diameter of 115 mm.

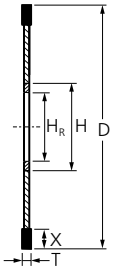
Special features:
- High diamond qualities.
- Good cutting characteristics and short cutting times.
- Good ease of cutting and high economic efficiency.

D [mm]	H [mm]		Item no.	Designation
115	22.23	1	68300062	SET 115x1.6/1.9x22.23 START

New item

Diamond tools for the construction industry

Diamond cut-off wheels with continuous edge for easy cutting (TURBO)

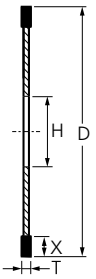


DG START type

General-purpose continuous-rim tool for easy cutting (TURBO) with high cutting performance and a good tool life.

Special features:
- High diamond qualities.
- Good cutting characteristics and short cutting times.
- Good ease of cutting and high economic efficiency.

D [mm]	T [mm]	H [mm]	H_R [mm]	X [mm]	Max. RPM		Item no.	Designation
100	1.9	20	16	7	15,300	1	68300036	DG 100x1.9x16/20 START
110	2.2	20	-	7	13,800	1	68300056	DG 110X2.2X20 START
115	1.9	22.23	-	7	13,300	1	68300042	DG 115x1.9x22.23 START
125	1.9	22.23	-	7	12,200	1	68300043	DG 125x1.9x22.23 START
178	2.2	22.23	-	7	8,600	1	68300048	DG 178 x 2.2 x 22.23 START
230	2.6	22.23	-	7	6,600	1	68300050	DG 230x2.6x22.23 START

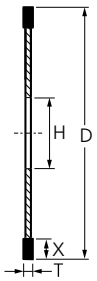


DG PSF type

General-purpose continuous-edge tool for easy cutting (TURBO) with high cutting performance and an ideal tool life.

Special features:
- High diamond qualities.
- Excellent cutting characteristics and short cutting times.
- High ease of cutting and economic efficiency.

D [mm]	T [mm]	H [mm]	X [mm]	Max. RPM		Item no.	Designation
115	2.1	22.23	7	13,300	1	68011222	DG 115 x 2,1 x 22,23 PSF
125	2.1	22.23	7	12,200	1	68012222	DG 125 x 2,1 x 22,23 PSF
178	2.4	22.23	7	8,600	1	68017222	DG 178 x 2,4 x 22,23 PSF
230	2.6	22.23	7	6,600	1	68023222	DG 230 x 2,6 x 22,23 PSF



DG SG type

High-performance continuous-edge tool for easy cutting (TURBO) with very high cutting performance and outstanding tool life.

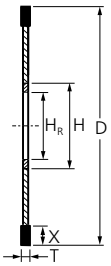
Special features:
- High diamond qualities.
- Excellent cutting characteristics and short cutting times.
- High ease of cutting and economic efficiency.

D [mm]	T [mm]	H [mm]	X [mm]	Max. RPM		Item no.	Designation
115	2.2	22.23	12	13,300	1	68000021	DG 115 x 2,2 x 22,23 SG
125	2.2	22.23	12	12,200	1	68000022	DG 125 x 2,2 x 22,23 SG
150	2.2	22.23	12	10,200	1	68000058	DG 150X2,2X22,23 SG
178	2.5	22.23	12	8,600	1	68000023	DG 178 x 2,5 x 22,23 SG
230	2.8	22.23	12	6,600	1	68000024	DG 230 x 2,8 x 22,23 SG

New item

Diamond tools for the construction industry

Diamond cut-off wheels with continuous edge for very fine cutting



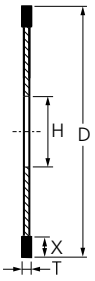
DG FL PSF type

General-purpose continuous-edge tool for cutting without edge breakages on workpieces with high-quality surfaces. High cutting performance and ideal tool life.

Special features:

- High diamond qualities.
- Excellent cutting characteristics and short cutting times.
- High ease of cutting and economic efficiency.

D [mm]	T [mm]	H [mm]	H_R [mm]	X [mm]	Max. RPM		Item no.	Designation
100	1.6	20	16	7	15,300	1	68300035	DG 100 x 1,6 x 16/20 FL PSF
110	1.6	20	-	7	13,800	1	68300057	DG 110 x 1,6 x 20 FL PSF
178	2.2	22.23	-	7	8,500	1	68300049	DG 178 x 2,2 x 22,23 FL PSF
76	1.3	10	-	7	11,000	1	68000025	DG 76x1.6x10 FL PSF
115	1.6	22.23	-	7	13,300	1	68000011	DG 115 x 1,6 x 22,23 FL PSF
125	1.6	22.23	-	7	12,200	1	68000012	DG 125 x 1,6 x 22,23 FL PSF
150	2.2	22.23	-	7	10,200	1	68000026	DG 150x2.2x22.23 FL PSF
230	2.2	22.23	-	7	6,600	1	68300051	DG 230 x 2,2 x 22,23 FL PSF (ZA)



DG FL SG type

High-performance continuous-edge tool for cutting without edge breakages on workpieces with high-quality surfaces. Very high cutting performance and outstanding tool life.

Special features:

- High diamond qualities.
- Excellent cutting characteristics and short cutting times.
- High ease of cutting and economic efficiency.

D [mm]	T [mm]	H [mm]	X [mm]	Max. RPM		Item no.	Designation
115	1.4	22.23	10	13,300	1	68000031	DG 115 x 1,4 x 22,23 FL SG
125	1.4	22.23	10	12,200	1	68000032	DG 125 x 1,4 x 22,23 FL SG
150	1.6	22.23	10	10,200	1	68000027	DG 150x1.6x22.23 FL SG
178	2	22.23	10	8,500	1	68000028	DG 178x2.0x22.23 FL SG
200	2	25.4	10	7,650	1	68000030	DG 200x2.0x25.4 FL SG
230	2	22.23	10	6,600	1	68000029	DG 230x2.0x22.23 FL SG
250	2	25.4	10	6,100	1	68000033	DG 250x2.0x25.4 FL SG
300	2.4	25.4	10	6,400	1	68000034	DG 300x2.4x25.4 FL SG
350	2.4	25.4	10	5,500	1	68000035	DG 350x2.4x25.4 FL SG

New item

Sharpening block DSB

The sharpening block is used to resharpen metal-bonded diamond cut-off wheels (e.g. after cutting lubricating materials).

L [mm]	B [mm]	H [mm]	Grit size		Item no.	Designation
200	50	25	80	1	68075025	DSB 2005025

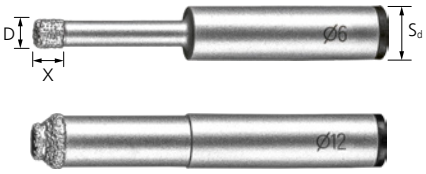
Grinding discs

Diamond grinding disc

Diamond grinding discs are efficient tools for smoothing uneven surfaces, e.g. removing tile adhesive and grinding concrete in preparation for tiling. They are also used for chamfering and edge breaking on stone.

Special features:
- High diamond qualities.
- Excellent cutting characteristics and short grinding times.
- Very long tool life and high economic efficiency.

D [mm]	H [mm]	X [mm]	Diam. arbor hole with adapter [mm]	Number, rows	Max. RPM		Item no.	Designation
Single row								
100	22.23	6	16	1	15,280	1	68300063	DCW 1R 100x6x16/22.23
115	22.23	6	-	1	13,300	1	68300064	DCW 1R 115x6x22.23
125	22.23	6	-	1	12,200	1	68300065	DCW 1R 125x6x22.23
Two rows								
100	22.23	6	16	2	15,280	1	68300066	DCW 2R 100x6x16/22.23
115	22.23	6	-	2	13,300	1	68300067	DCW 2R 115x6x22.23
125	22.23	6	-	2	12,200	1	68300068	DCW 2R 125x6x22.23



Dry diamond drill bit DPD for power drills

Vacuum-brazed dry diamond drill bits for power drills are ideal for drilling holes into tiles and glazed tiles. The wax filling provides a self-cooling effect.

Special features:
- Self-cooling effect thanks to wax filling in the drill bit.
- Convenient working and high cutting quality – no edge breakage on workpieces with high-quality surfaces.
- Very secure hold and no slipping in the drill chuck thanks to the hexagonal shank.

D [mm]	Max. workpiece thickness [mm]	X [mm]	Hex-D_s [mm]		Item no.	Designation
5	32	10	8	1	68300112	DPD 5 FL HEX
6	32	10	8	1	68300113	DPD 6 FL HEX
8	32	10	8	1	68300114	DPD 8 FL HEX
10	38	10	8	1	68300115	DPD 10 FL HEX
12	38	10	8	1	68300116	DPD 12 FL HEX

Dry diamond drill bit DPD for angle grinders

Vacuum-brazed dry diamond drill bits for angle grinders are ideal for drilling holes into tiles and glazed tiles. The wax filling provides a self-cooling effect.

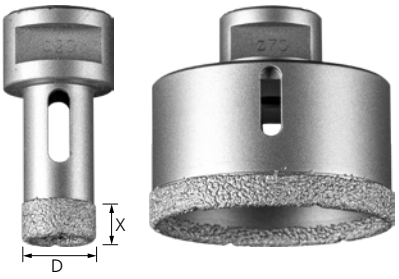
Special features:
- Self-cooling effect thanks to wax filling in the drill bit.
- Suitable for all common angle grinders with M14 thread.
- Convenient working and high cutting quality – no edge breakage on workpieces with high-quality surfaces.

D [mm]	Max. workpiece thickness [mm]	X [mm]		Item no.	Designation
5	35	10	1	68300117	DPD 5 FL M14
6	35	10	1	68300118	DPD 6 FL M14
8	35	10	1	68300119	DPD 8 FL M14
10	35	10	1	68300120	DPD 10 FL M14
12	35	10	1	68300121	DPD 12 FL M14

New item

Diamond tools for the construction industry

Diamond for the construction industry Performance Line PSF



Dry diamond drill bit DCD for angle grinders

Vacuum-brazed dry diamond drill bits DCD are suitable for drilling holes and round recesses in tiles and glazed tiles for water connections, sockets and light switches, for example. With M14 thread for use on 115/125 mm angle grinders.

Special features:

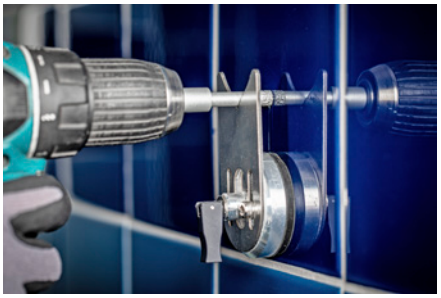
- Very long tool life.
- Convenient working and high cutting quality – no edge breakage on workpieces with high-quality surfaces.
- Special coating design protects the drill bit and workpiece from overheating.

D [mm]	Max. workpiece thickness [mm]	X [mm]	Thread	Max. RPM		Item no.	Designation
20	40	12	M14	13,300	1	68300122	DCD 20XM14 FL
22	40	12	M14	13,300	1	68300123	DCD 22XM14 FL
25	40	12	M14	13,300	1	68300124	DCD 25XM14 FL
27	40	12	M14	13,300	1	68300125	DCD 27XM14 FL
30	40	12	M14	13,300	1	68300126	DCD 30XM14 FL
32	40	12	M14	13,300	1	68300127	DCD 32XM14 FL
35	40	12	M14	13,300	1	68300128	DCD 35XM14 FL
38	40	12	M14	13,300	1	68300129	DCD 38XM14 FL
40	40	12	M14	13,300	1	68300130	DCD 40XM14 FL
45	40	12	M14	13,300	1	68300131	DCD 45XM14 FL
51	40	12	M14	13,300	1	68300132	DCD 51XM14 FL
55	40	12	M14	13,300	1	68300133	DCD 55XM14 FL
60	40	12	M14	13,300	1	68300134	DCD 60XM14 FL
65	40	12	M14	13,300	1	68300135	DCD 65XM14 FL
68	40	12	M14	13,300	1	68300136	DCD 68XM14 FL
70	40	12	M14	13,300	1	68300137	DCD 70XM14 FL

Drilling aid for dry diamond drill bits DPD

Diamond drilling aid DPD

Mobile drilling aid with suction cup for centring dry diamond drill bits on tiles and other smooth surfaces.

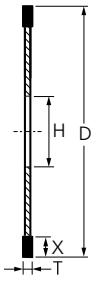


Special features:

- Enables optimal alignment of the tile drill bit.
- Thanks to the holder, drilling tools do not slip.
- Creates precise holes with clean cut edges.

Suitable for		Item no.	Designation
Dry diamond drill bit DPD dia. 5–12 mm	1	68300096	DPD 5-12 mm

New item



DS Multi Power Carbide type

General-purpose cut-off wheel for effective cutting of many different materials, such as wood with embedded nails, plastics (e.g. pipes), non-ferrous metals and drywall construction materials. The cutting edge made of sharp tungsten carbide grains achieves clean, precise cuts.

Special features:
- Ideal choice when changing materials.
- Optimum cutting speed due to consistent diameter and high ease of cutting.
- Long service life thanks to special bonding of the tungsten carbide grain with the steel body.

D [mm]	T [mm]	H [mm]	X [mm]	Max. RPM		Item no.	Designation
125	1.2	22.23	2	12,200	1	68200002	POS MULTI POWER CARBIDE WHEEL DS 125X1,2X22,23

New item

PFERD TOOLS

Cut-off wheels, flap discs and grinding wheels

Cut-off wheels, flap discs and grinding wheels

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Cut-off wheels, flap discs and grinding wheels

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Cut-off wheels, flap discs and grinding wheels

Highlights from the PFERD TOOLS range

Thin cut-off wheels – flat type EHT (shape 41)

The PFERD TOOLS product range includes thin cut-off wheels in various designs and therefore the right tool solution for any application – ergonomically optimized, efficient and with the highest level of safety. The thin cut-off wheels from PFERD TOOLS are characterized by their special bond formulation. Scan the QR code to find out more about PFERD TOOLS' range of thin cut-off wheels.

Advantages:

- Thin cuts with minimal burr formation.
- Maximum economic efficiency thanks to fast cutting.
- Convenient and safe.

Flap discs POLIFAN POWER Z 40 and POLIFAN CURVE

PFERD TOOLS presents two real highlights from the flap disc range: the POLIFAN flap disc POLIFAN POWER Z 40 which is normally the most economical, and the innovative POLIFAN CURVE flap disc designed specifically for work on fillet welds. Scan the QR code to find out more about PFERD TOOLS' range of flap discs.

Advantages:

- Fastest work progress and maximum economic efficiency thanks to the aggressive stock removal rate on the POLIFAN POWER Z 40.
- The POLIFAN CURVE provides precise and optimum grinding of the fillet weld geometry.

CC-GRIND ROBUST and CC-GRIND VIEW grinding discs

With the CC-GRIND ROBUST and CC-GRIND VIEW, PFERD TOOLS offers a modern, high-performance and ergonomic alternative to grinding wheels, flap discs and fibre discs. Noise, vibrations and dust are significantly reduced. A considerably superior surface quality is also produced. In the SGP type, PFERD TOOLS also offers the CC-GRIND ROBUST and CC-GRIND VIEW with high-quality **VICTO**GRAIN. PFERD TOOLS' triangular, precision-formed abrasive grit achieves uniquely high abrasive performance. Scan the QR code to find out more about PFERD TOOLS' CC-GRIND VIEW.

Advantages:

- The ultimate in aggressive performance for the fastest work progress.
- Combines the best available abrasive with the cutting-edge, innovative tool design from PFERD TOOLS.
- Although the **VICTO**GRAIN tools only have one layer of abrasive grain, they offer an outstanding tool life – longer than grinding wheels and many flap discs.

- In contrast to flap discs, they can achieve flat surfaces thanks to their dimensional stability.

More expert information online

Scan the QR code to find out a wide range of tool and application knowledge relating to PFERD TOOLS' high-quality tools and their huge variety of materials.

Cut-off wheels, flap discs and grinding wheels
General information

Organization for the Safety of Abrasives (oSa)

As a founding member of the Organization for the Safety of Abrasives (oSa), PFERD TOOLS has committed to conform to tougher inspection requirements that go beyond EN 12413 and EN 13743. Member companies of oSa are committed to continuous product safety and quality monitoring. Scan the QR code for further information.

Product lines and colour coding

PSF ★★☆☆

SG ★★★☆

SGP ★★★★

Universal Line PSF ★★☆☆

The introductory range Universal Line PSF includes **robust tools** for processing the **most common materials**. Universal Line PSF tools achieve **good results** with **high economic efficiency**.

Performance Line SG ★★★☆

The broad Performance Line SG range offers **a high-performance tool solution for every application and every material**. Performance Line SG tools achieve **optimum results** with **maximum economic efficiency.**

Special Line SGP ★★★★

Special Line SGP tools are specially developed for **specific tasks** and offer the user **key advantages over conventional products.** Furthermore, the Special Line SGP includes tools that offer **ultimate economic efficiency** thanks to their particularly high performance during use.

Materials and colour coding

Steel, cast steel	Steels up to 1,200 N/mm² (< 38 HRC)	Construction steels, carbon steels, tool steels, non-alloyed steels, case-hardened steels, cast steel, tempering steels
	Hardened, heat-treated steels over 1,200 N/mm² (> 38 HRC)	Tool steels, tempering steels, alloyed steels, cast steel
Stainless steel (INOX)	Rust and acid-resistant steels	Austenitic and ferritic stainless steels, e.g. **Name** **EN** **AISI** V2A 1.4301 304 V2A 1.4310 301 V4A 1.4401 316 V4A 1.4571 316Ti
Aluminium	Non-hardening and hardening wrought alloys, cast aluminium alloys with low silicon content, cast aluminium alloys without silicon	
Other non-ferrous metals	Soft non-ferrous metals	Brass, copper, zinc
	Hard non-ferrous metals	Bronze, titanium
	High-temperature-resistant materials	Inconel, nickel-based alloys
Cast iron	Grey cast iron	Cast iron with flake graphite EN-GJL (GG), cast iron with nodular graphite/nodular cast iron EN-GJS (GGG)
	Annealed cast iron	White annealed cast iron EN-GJMW (GTW), black annealed cast iron EN-GJMB (GTS)
Stone	Asphalt, cotto, pumice, light concrete, sandstone, concrete, reinforced concrete, concrete blocks, roofing tiles, granite, clinker bricks, exposed aggregate concrete, glazed tiles, ceramic tiles, slate	

Cut-off wheels, flap discs and grinding wheels

Label and packaging

Label

① oSa – Organization for the Safety of Abrasives
As a founder member of oSa, PFERD TOOLS has voluntarily undertaken to produce quality tools conforming to the most exacting safety standards. Member companies of oSa are committed to continuous product safety and quality monitoring.

② Safety pictograms

③ Expiry date and lot number

④ Material information
The bottom section of every label indicates the material or materials for which the tool is suitable.

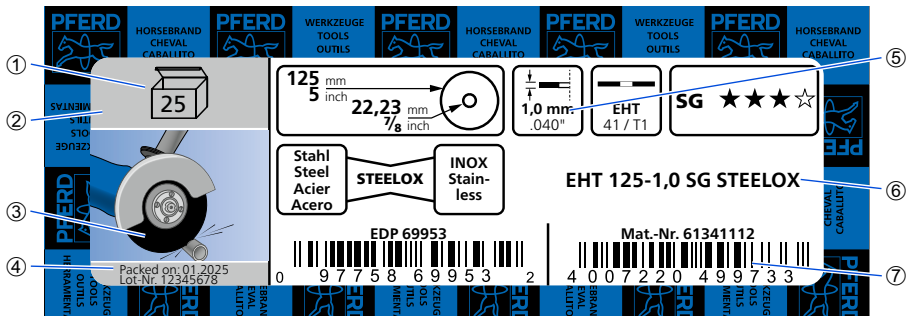
⑤ Information bar
Here you will find the product line, the dimensions, and the abrasive and grit size for POLIFAN flap discs.

⑥ EAN (European Article Number)

⑦ Suitable for stainless steel (INOX)
Manufactured without the addition of ferrous, chlorinated or sulphurous fillers.

Packaging

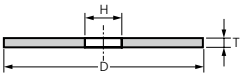
PFERD TOOLS supplies cut-off wheels, flap discs and grinding wheels in robust industrial packaging that protects the tools against damage.
All important technical and ordering information can be found on the packaging label.
① Packaging unit
② Product line (colour coding system)
③ Tool type
④ Packing date and lot number
⑤ Technical information
⑥ PFERD TOOLS designation
⑦ EAN (European Article Number)



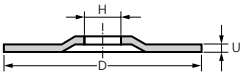
Cut-off wheels, flap discs and grinding wheels

Technical information and safety notes

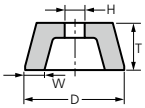
Overview of shapes and letter symbols



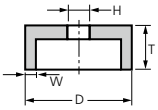
Cut-off wheel, flat type EHT (shape 41)



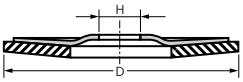
Grinding wheel E (shape 27) or cut-off wheel, depressed-centre type EH (shape 42)



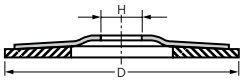
Conical cup wheel ETT (type 11)



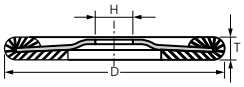
Cylindrical cup wheel ETT (shape 6)



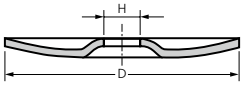
Flap disc, conical type PFC (shape B)



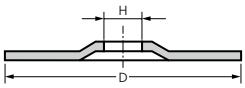
Flap disc, flat type PFF (shape A)



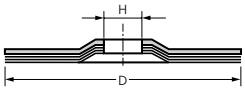
Flap disc, radial type PFR (CURVE)



CC-GRIND SOLID, CC-GRIND ROBUST, CC-GRIND VIEW



CC-GRIND FLEX



CC-GRIND STRONG

Safety during cutting and grinding

Grinding tool manufacturers, machine manufacturers and users contribute equally to ensuring safety during cutting and grinding. PFERD TOOLS produces all its tools according to the specified safety regulations. During cutting and grinding, the user is responsible for correct use of the tool drive as well as correct handling and use of the tools.

Explanation of the labelling of grinding tools

- Always observe the instructions on the grinding tool, the grinding machine and all accompanying user information.
- Only use grinding tools that meet current safety standards. These products carry the relevant EN standard number and the "oSa" mark:
  EN 12413 for grinding tools with bonded abrasives (reinforced grinding wheels, cut-off wheels, cup wheels and grinding wheels).
  EN 13743 for coated abrasives (POLIFAN flap discs, CC-GRIND grinding discs).
- Use a grinding tool that is suitable for the respective application. A tool that cannot be clearly identified should never be used.

- Grinding tools for hand-held grinding with bond types B (e.g. cup wheels) and BF (reinforced grinding wheels, cut-off wheels and grinding wheels) must not be used after the indicated expiry date in accordance with EN 12413. The expiry date is stated as the month and year, e.g. 04/2026. The bond type is always marked on the label.

Cut-off wheels, flap discs and grinding wheels

Technical information and safety notes

Safety notes

Observe any usage restrictions, warnings and safety notes:

Not permitted for hand-held grinding!

Not permitted for face grinding!

Not permitted for wet grinding!

Do not use if damaged!

Follow the safety instructions!

Wear eye protection!

Wear hearing protection!

Wear gloves!

Wear a dust mask!

Observe the minimum contact angle!

Use guard!

Only permitted for totally enclosed work areas!

Use face protection!

Only permitted with backing pad!

Only permitted for wet cutting!

Danger if used improperly!

Cut-off wheels
The quick way to find the perfect tool

PFERD TOOLS

Product group selection

Tool drive	Application	Product line	Steel (STEEL)		Stainless steel (INOX)		Aluminium (ALU)	Cast material (CAST)	Stone (STONE)	
Angle grinders	Cutting	Universal Line PSF ★★☆☆	PSF STEEL	PSF STEELOX	PSF STEELOX		PSF ALU + STONE		PSF ALU+STONE	
		Performance Line SG ★★★☆	SG STEEL	SG STEELOX	SG INOX	SG STEELOX	SG ALU	Foundry cut-off wheels		
		Special Line SGP ★★★★	CERAMIC SGP STEEL	SGP STEEL	SGP STEELOX	SGP STEELOX				
	Cutting and grinding	Universal Line PSF ★★☆☆	PSF DUO STEELOX		PSF DUO STEELOX					
		Performance Line SG ★★★☆						(ZIRKON) SG DUO CAST		
Straight grinders (< 100 mm)	Cutting	Performance Line SG ★★★☆	SG STEELOX		SG STEELOX		SG STEELOX	SG STEELOX		
Petrol cutters and cut-off grinders (> 230 mm)	Cutting	Universal Line PSF ★★☆☆	PSF STEEL							
		Performance Line SG ★★★☆	SG STEEL					SG CAST + STONE	SG STONE	SG CAST + STONE

Cut-off wheel width selection

Diameter 50–125 mm		
Thin cut-off wheels	0.8 mm	Maximum precision and cutting quality for sheet metal work
	1.0 mm	Universal width with a focus on speed, comfort and cutting quality
	1.3 and 1.6 mm	Universal width with a focus on tool life and comfort
Cut-off wheels	≥ 1.9 mm	Heavy-duty use

Diameter 150–230 mm		
Thin cut-off wheels	≤ 2.0 mm	Universal width with a focus on speed, comfort and cutting quality
Cut-off wheels	2.5 mm	Universal width with a focus on tool life and comfort
	≥ 2.9 mm	Heavy-duty use

Cut-off wheels
Universal Line PSF ★★☆☆

PSF STEEL ★★☆☆

Cut-off wheel for steel with high cutting performance and good tool life. Suitable for cutting sheet metal, profiles and solid material, and for cutting out holes.

Special features:

- Fast work progress thanks to good cutting performance.
- High economic efficiency due to good tool life.
- Thin cut-off wheels are ergonomically optimised, efficient and provide impressively fast and thin cuts with minimized burr formation.

D [mm]	T/U [mm]	H [mm]	Max. RPM	Abrasive		Item no.	Designation
Flat design EHT (shape 41)							
100	2.4	16	15,300	A	25	61741116	EHT 100-2,4 PSF STEEL/16,0
105	1	16	14,500	A	25	69121029	EHT 105-1,0 PSF STEEL/16,0
115	1	22.23	13,300	A	25	61730010	EHT 115-1,0 PSF STEEL
	1.6	22.23	13,300	A	25	61730021	EHT 115-1,6 PSF STEEL
	2.4	22.23	13,300	A	25	61730026	EHT 115-2,4 PSF STEEL
125	1	22.23	12,200	A	25	61719010	EHT 125-1,0 PSF STEEL
	1.6	22.23	12,200	A	25	61719021	EHT 125-1,6 PSF STEEL
	2.4	22.23	12,200	A	25	61719026	EHT 125-2,4 PSF STEEL
150	1.6	22.23	10,200	A	25	61721221	EHT 150-1,6 PSF STEEL
180	1.6	22.23	8,500	A	25	61719121	EHT 180-1,6 PSF STEEL
	3	22.23	8,500	A	25	61726222	EHT 180-3,0 PSF STEEL
230	1.9	22.23	6,600	A	25	61728231	EHT 230-1,9 PSF STEEL
	3	22.23	6,600	A	25	61728222	EHT 230-3,0 PSF STEEL
Depressed-centre design EH (shape 42)							
100	2.4	16	15,300	A	25	61739116	EH 100-2,4 PSF STEEL/16,0
115	2.4	22.23	13,300	A	25	61740122	EH 115-2,4 PSF STEEL
	3.2	22.23	13,300	A	25	61740126	EH 115-3,2 PSF STEEL
125	2.4	22.23	12,200	A	25	61720222	EH 125-2,4 PSF STEEL
	3.2	22.23	12,200	A	25	61720226	EH 125-3,2 PSF STEEL
180	3	22.23	8,500	A	25	61723222	EH 180-3,0 PSF STEEL
230	3	22.23	6,600	A	25	61724222	EH 230-3,0 PSF STEEL

PSF STEELOX ★★☆☆

Cut-off wheel for steel and stainless steel (INOX) with high cutting performance and good tool life. Suitable for cutting sheet metal, profiles and solid material, and for cutting out holes.

Special features:
- Fast work progress due to high cutting performance and high efficiency thanks to excellent tool life.
- Thin cut-off wheels are ergonomically optimised, efficient and provide impressively fast and thin cuts with minimized burr formation.
- Thin cut-off wheels are ideal for cordless angle grinders.

D [mm]	T/U [mm]	H [mm]	Max. RPM	Abrasive		Item no.	Designation
Flat design EHT (shape 41)							
115	1	22.23	13,300	A	10	69121092	EHT 115-1,0 PSF STEELOX (TIN 10)
125	1	22.23	12,200	A	10	69121091	EHT 125-1,0 PSF STEELOX (TIN 10)
76	0.8	10	20,100	A	25	65508109	EHT 76-0,8 PSF STEELOX/10,0
	1	10	20,100	A	25	65508100	EHT 76-1,0 PSF STEELOX/10,0
105	1	16	14,500	A	25	61741105	EHT 105-1,0 PSF STEELOX/16,0
115	1	22.23	13,300	A	25	61730100	EHT 115-1,0 PSF STEELOX
	1.6	22.23	13,300	A	25	61730121	EHT 115-1,6 PSF STEELOX
	2.4	22.23	13,300	A	25	61730122	EHT 115-2,4 PSF STEELOX
125	1	22.23	12,200	A	25	61721100	EHT 125-1,0 PSF STEELOX
					10	61721110	EHT 125-1,0 PSF STEELOX (10)
	1.6	22.23	12,200	A	25	61721121	EHT 125-1,6 PSF STEELOX
	2	22.23	12,200	A	25	69120850	EHT 125-2,0 PSF STEELOX
	2.4	22.23	12,200	A	25	61721122	EHT 125-2,4 PSF STEELOX
150	1.6	22.23	10,200	A	25	61724121	EHT 150-1,6 PSF STEELOX
180	1.6	22.23	8,500	A	25	61726121	EHT 180-1,6 PSF STEELOX
	2.5	22.23	8,500	A	25	61726122	EHT 180-2,5 PSF STEELOX
230	1.9	22.23	6,600	A	25	61728131	EHT 230-1,9 PSF STEELOX
	2	22.23	6,600	A	25	69901410	EHT 230-2,0 PSF STEELOX
	2.5	22.23	6,600	A	25	61728122	EHT 230-2,5 PSF STEELOX
Flat reinforced type EHT (shape 41) – prevents wobbling in separating cuts.							
230	1.9	22.23	6,600	A	25	61728327	EHT 230-1,9 PSF HD STEELOX
Flat design EHT (type 41) with X-LOCK holder X-LOCK							
115	1	22.23	13,300	A	25	61730101	EHT 115-1,0 PSF STEELOX/X-LOCK
	1.6	22.23	13,300	A	25	61730124	EHT 115-1,6 PSF STEELOX/X-LOCK
125	1	22.23	12,200	A	25	61721101	EHT 125-1,0 PSF STEELOX/X-LOCK
	1.6	22.23	12,200	A	25	61721124	EHT 125-1,6 PSF STEELOX/X-LOCK
Depressed-centre design EH (shape 42)							
100	2.4	16	15,300	A	25	61739326	EH 100-2,4 PSF STEELOX/16,0
115	2.4	22.23	13,300	A	25	61740326	EH 115-2,4 PSF STEELOX
125	2.4	22.23	12,200	A	25	61720326	EH 125-2,4 PSF STEELOX
180	2.5	22.23	8,500	A	25	61726326	EH 180-2,5 PSF STEELOX
230	2.5	22.23	6,600	A	25	61728326	EH 230-2,5 PSF STEELOX
Depressed-centre design EH (type 42) with X-LOCK holder X-LOCK							
125	2.4	22.23	12,200	A	25	61740125	EH 125-2,4 PSF STEELOX/X-LOCK

PSF CLASSIC STEELOX ★★☆☆

Cut-off wheel for steel and stainless steel (INOX) with high cutting performance, good tool life and metal ring in the inner hole. Suitable for cutting sheet metal, profiles and solid material, and for cutting out holes.

Special features:
- Fast work progress due to high cutting performance and high efficiency thanks to excellent tool life.
- Thin cut-off wheels are ergonomically optimised, efficient and provide impressively fast and thin cuts with minimized burr formation.
- Suitable for general use on steel and stainless steel (INOX).

D [mm]	T/U [mm]	H [mm]	Max. RPM	Abrasive		Item no.	Designation
Flat design EHT (shape 41)							
115	1	22.23	13,300	A	25	61715150	EHT 115-1,0 PSF CLASSIC STEELOX
125	1	22.23	12,200	A	25	61715250	EHT 125-1,0 PSF CLASSIC STEELOX
	1.6	22.23	12,200	A	25	61715253	EHT 125-1,6 PSF CLASSIC STEELOX

PSF DUODISC STEELOX ★★☆☆ combination wheel

Combination wheel for steel and stainless steel (INOX) with high cutting performance and good tool life. Suitable for cutting, deburring, grouting, surface grinding, and for work on fillet welds and weld seams.

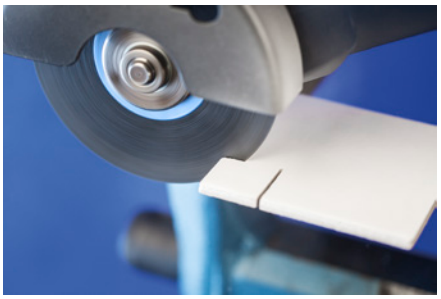
Special features:
- Safe, standard-compliant solution for cutting and face grinding with just one tool.
- Ideal for cordless angle grinders.
- Problem solver for grinding work on scale.

D [mm]	T/U [mm]	H [mm]	Max. RPM	Abrasive		Item no.	Designation
Depressed-centre design E (type 27)							
100	1.9	16	15,300	A	10	62010630	E 100-1,9 PSF DUO STEELOX/16,0
	2.8	16	15,300	A	10	62010632	E 100-2,8 PSF DUO STEELOX/16,0
115	1.9	22.23	13,300	A	10	62011630	E 115-1,9 PSF DUO STEELOX
	2.8	22.23	13,300	A	10	62011620	E 115-2,8 PSF DUO STEELOX
125	1.9	22.23	12,200	A	10	62012630	E 125-1,9 PSF DUO STEELOX
	2.8	22.23	12,200	A	10	62012620	E 125-2,8 PSF DUO STEELOX
150	3.5	22.23	10,200	A	10	62015420	E 150-3,5 PSF DUO STEELOX
180	3.5	22.23	8,500	A	10	62017420	E 180-3,5 PSF DUO STEELOX

Cut-off wheels
Universal Line PSF ★★☆☆

PSF ALU + STONE ★★☆☆

Cut-off wheel with high cutting performance and good tool life for use on aluminium, titanium, other non-ferrous metals, stone, concrete, tiles, duroplastics, cast iron. Suitable for cutting sheet metal, profiles and solid material, and for cutting out holes.



Special features:
- Fast work progress thanks to good cutting performance.
- Thin cut-off wheels are ideal for cordless angle grinders.
- Thin cut-off wheels are ergonomically optimised, efficient and provide impressively fast and thin cuts with minimized burr formation.

D [mm]	T/U [mm]	H [mm]	Max. RPM	Abrasive		Item no.	Designation
Flat design EHT (shape 41)							
115	1	22.23	13,300	C	25	61818010	EHT 115-1,0 PSF ALU+STONE
	1.6	22.23	13,300	C	25	61818021	EHT 115-1,6 PSF ALU+STONE
125	1	22.23	12,200	C	25	61819010	EHT 125-1,0 PSF ALU+STONE
					10	61819015	EHT 125-1,0 PSF ALU+STONE (10)
	1.6	22.23	12,200	C	25	61819021	EHT 125-1,6 PSF ALU+STONE
180	3.2	22.23	8,500	C	25	61826222	EHT 180-3,2 PSF ALU+STONE
230	3.2	22.23	6,600	C	25	61828222	EHT 230-3,2 PSF ALU+STONE
Depressed-centre design EH (shape 42)							
115	2.4	22.23	13,300	C	25	61830122	EH 115-2,4 PSF ALU+STONE
125	2.4	22.23	12,200	C	25	61820222	EH 125-2,4 PSF ALU+STONE
150	3	22.23	10,200	C	25	61823326	EH 150-3,0 PSF ALU+STONE
180	3.2	22.23	8,500	C	25	61823222	EH 180-3,2 PSF ALU+STONE
230	3.2	22.23	6,600	C	25	61824222	EH 230-3,2 PSF ALU+STONE

Cut-off wheels
Performance Line SG ★★★☆

SG STEEL ★★★☆

Cut-off wheel for steel with high cutting performance and maximum tool life. Suitable for cutting profiles and solid material, and for cutting out holes.

Special features:
- Fast work progress thanks to good cutting performance.
- Thin cut-off wheels are ideal for cordless angle grinders.
- Thin cut-off wheels are ergonomically optimised, efficient and provide impressively fast and thin cuts with minimized burr formation.

D [mm]	T/U [mm]	H [mm]	Max. RPM	Abrasive		Item no.	Designation
Flat design EHT (shape 41)							
100	2.4	16	15,300	A	25	61340116	EHT 100-2,4 SG STEEL/16,0
115	1	22.23	13,300	A	25	61340382	EHT 115-1,0 SG STEEL
	1.6	22.23	13,300	A	25	61330122	EHT 115-1,6 SG STEEL
	2.4	22.23	13,300	A	25	61340222	EHT 115-2,4 SG STEEL
125	1	22.23	12,200	A	25	61341082	EHT 125-1,0 SG STEEL
	1.6	22.23	12,200	A	25	61331122	EHT 125-1,6 SG STEEL
	2.4	22.23	12,200	A	25	61321222	EHT 125-2,4 SG STEEL
150	1.6	22.23	10,200	A	25	61323106	EHT 150-1,6 SG STEEL
	3	22.23	10,200	A	25	61322222	EHT 150-3,0 SG STEEL
180	1.6	22.23	8,500	A	25	61326122	EHT 180-1,6 SG STEEL
	2.9	22.23	8,500	A	25	61326322	EHT 180-2,9 SG STEEL
	3.2	22.23	8,500	A	25	61326222	EHT 180-3,2 SG STEEL
230	1.9	22.23	6,600	A	25	61328131	EHT 230-1,9 SG STEEL
	2.9	22.23	6,600	A	25	61328322	EHT 230-2,9 SG STEEL
	3.2	22.23	6,600	A	25	61328222	EHT 230-3,2 SG STEEL
Depressed-centre design EH (shape 42)							
100	2.4	16	15,300	A	25	61339116	EH 100-2,4 SG STEEL/16,0
115	2.4	22.23	13,300	A	25	61340122	EH 115-2,4 SG STEEL
	3.2	22.23	13,300	A	25	61340132	EH 115-3,2 SG STEEL
125	2.4	22.23	12,200	A	25	61320222	EH 125-2,4 SG STEEL
	3.2	22.23	12,200	A	25	61320232	EH 125-3,2 SG STEEL
150	3	22.23	10,200	A	25	61323122	EH 150-3,0 SG STEEL
180	2.9	22.23	8,500	A	25	61323322	EH 180-2,9 SG STEEL
	3.2	22.23	8,500	A	25	61323222	EH 180-3,2 SG STEEL
230	2.9	22.23	6,600	A	25	61324322	EH 230-2,9 SG STEEL
	3.2	22.23	6,600	A	25	61324222	EH 230-3,2 SG STEEL

Cut-off wheels
Performance Line SG ★★★☆

SG STEELOX ★★★☆

Cut-off wheel for steel and stainless steel (INOX) with high cutting performance and maximum tool life. Suitable for cutting sheet metal, profiles and solid material, and for cutting out holes.

Special features:
- Fast work progress thanks to good cutting performance.
- Maximum economic efficiency due to maximum tool life.
- Thin cut-off wheels are ergonomically optimised, efficient and provide impressively fast and thin cuts with minimized burr formation.

D [mm]	T/U [mm]	H [mm]	Max. RPM	Abrasive		Item no.	Designation
Flat design EHT (shape 41)							
105	1	16	14,500	A	25	69121043	EHT 105-1,0 SG STEELOX/16,0
115	1	22.23	13,300	A	25	61340412	EHT 115-1,0 SG STEELOX
	1.6	22.23	13,300	A	25	61340422	EHT 115-1,6 SG STEELOX
	2.4	22.23	13,300	A	25	61340432	EHT 115-2,4 SG STEELOX
125	1	22.23	12,200	A	25	61341112	EHT 125-1,0 SG STEELOX
	1.6	22.23	12,200	A	25	61341122	EHT 125-1,6 SG STEELOX
	2	22.23	12,200	A	25	61320120	EHT 125-2,0 SG STEELOX
	2.4	22.23	12,200	A	25	61331432	EHT 125-2,4 SG STEELOX
150	1.6	22.23	10,200	A	25	61342122	EHT 150-1,6 SG STEELOX
	2	22.23	10,200	A	25	61342400	EHT 150-2,0 SG STEELOX
	2.5	22.23	10,200	A	25	61100150	EHT 150-2,5 SG STEELOX
180	1.6	22.23	8,500	A	25	61326410	EHT 180-1,6 SG STEELOX
	2	22.23	8,500	A	25	69901412	EHT 180-2,0 SG STEELOX
	2.5	22.23	8,500	A	25	61326422	EHT 180-2,5 SG STEELOX
230	1.9	22.23	6,600	A	25	61328430	EHT 230-1,9 SG STEELOX
	2	22.23	6,600	A	25	61328400	EHT 230-2,0 SG STEELOX
	2.5	22.23	6,600	A	25	61328422	EHT 230-2,5 SG STEELOX
	3.2	22.23	6,600	A	25	61328432	EHT 230-3,2 SG STEELOX
Flat design EHT (type 41) with X-LOCK holder						X-LOCK	
125	1	22.23	12,200	A	25	61341113	EHT 125-1,0 SG STEELOX/X-LOCK
	1.6	22.23	12,200	A	25	61341123	EHT 125-1,6 SG STEELOX/X-LOCK
Depressed-centre design EH (shape 42)							
115	2.4	22.23	13,300	A	25	61340123	EH 115-2,4 SG STEELOX
	3.2	22.23	13,300	A	25	61332432	EH 115-3,2 SG STEELOX
125	2.4	22.23	12,200	A	25	61341222	EH 125-2,4 SG STEELOX
	3.2	22.23	12,200	A	25	61333432	EH 125-3,2 SG STEELOX
180	2.5	22.23	8,500	A	25	61323223	EH 180-2,5 SG STEELOX
230	2.5	22.23	6,600	A	25	61324223	EH 230-2,5 SG STEELOX
Depressed-centre design EH (type 42) with X-LOCK holder						X-LOCK	
125	2.4	22.23	12,200	A	25	61340125	EH 125-2,4 SG STEELOX/X-LOCK

SG CLASSIC STEELOX ★★★☆

Cut-off wheel for steel and stainless steel (INOX) with high cutting performance and maximum tool life. Suitable for cutting sheet metal, profiles and solid material, and for cutting out holes.

Special features:
- Fast work progress thanks to good cutting performance.
- Maximum economic efficiency due to maximum tool life.
- Thin cut-off wheels are ergonomically optimised, efficient and provide impressively fast and thin cuts with minimized burr formation.

D [mm]	T/U [mm]	H [mm]	Max. RPM	Abrasive		Item no.	Designation
Flat design EHT (shape 41)							
125	1	22.23	12,200	A	25	61341106	EHT 125-1,0 SG CLASSIC STEELOX
	1.6	22.23	12,200	A	25	61341120	EHT 125-1,6 SG CLASSIC STEELOX
180	1.6	22.23	8,600	A	25	61326406	EHT 180-1,6 SG CLASSIC STEELOX

SG INOX ★★★☆

Cut-off wheel for stainless steel (INOX) with high cutting performance and maximum tool life. Suitable for cutting sheet metal, profiles and solid material, and for cutting out holes.

Special features:
- Fast work progress thanks to good cutting performance.
- Maximum economic efficiency due to maximum tool life.
- Thin cut-off wheels are ergonomically optimised, efficient and provide impressively fast and thin cuts with minimized burr formation.

D [mm]	T/U [mm]	H [mm]	Max. RPM	Abrasive		Item no.	Designation
Flat design EHT (shape 41)							
105	1	16	14,500	A	25	61315113	EHT 105-1,0 SG INOX/16,0
115	0.8	22.23	13,300	A	25	61340396	EHT 115-0,8 SG INOX
	1	22.23	13,300	A	25	61340416	EHT 115-1,0 SG INOX
	1.6	22.23	13,300	A	25	61340424	EHT 115-1,6 SG INOX
125	0.8	22.23	12,200	A	25	61341096	EHT 125-0,8 SG INOX
	1	22.23	12,200	A	25	61341116	EHT 125-1,0 SG INOX
	1.6	22.23	12,200	A	25	61341124	EHT 125-1,6 SG INOX
150	1.6	22.23	10,200	A	25	61342124	EHT 150-1,6 SG INOX
180	1.6	22.23	8,500	A	25	61326124	EHT 180-1,6 SG INOX
	2.5	22.23	8,500	A	25	61326423	EHT 180-2,5 SG INOX
230	1.9	22.23	6,600	A	25	61328124	EHT 230-1,9 SG INOX
	2.5	22.23	6,600	A	25	61328423	EHT 230-2,5 SG INOX

Continued on next page

Cut-off wheels
Performance Line SG ★★★☆

D [mm]	T/U [mm]	H [mm]	Max. RPM	Abrasive		Item no.	Designation
Depressed-centre design EH (shape 42)							
115	2.4	22.23	13,300	A	25	*61340124*	EH 115-2,4 SG INOX
125	2.4	22.23	12,200	A	25	61341223	EH 125-2,4 SG INOX
180	2.5	22.23	8,500	A	25	*61323224*	EH 180-2,5 SG INOX
230	2.5	22.23	6,600	A	25	61324224	EH 230-2,5 SG INOX

SG ALU ★★★☆

Cut-off wheel for aluminium and other non-ferrous metals with high cutting performance and maximum tool life. Suitable for cutting sheet metal, profiles and solid material, and for cutting out holes.

Special features:
- Special abrasive mixture and bond technology prevent the cut-off wheel clogging up, even on soft, tough aluminium.
- Does not contain any fillers that could leave undesirable residues on the workpiece. The surface can therefore be welded immediately.
- Thin cut-off wheels are ergonomically optimised, efficient and provide impressively fast and thin cuts with minimized burr formation.

D [mm]	T/U [mm]	H [mm]	Max. RPM	Abrasive		Item no.	Designation
Flat design EHT (shape 41)							
105	1	16	14,500	A/C	25	61339430	EHT 105-1,0 SG ALU/16,0
115	1	22.23	13,300	A/C	25	61340415	EHT 115-1,0 SG ALU
	1.6	22.23	13,300	A/C	25	61340425	EHT 115-1,6 SG ALU
	2.4	22.23	13,300	A/C	25	61340550	EHT 115-2,4 SG ALU
125	1	22.23	12,200	A/C	25	61341115	EHT 125-1,0 SG ALU
	1.6	22.23	12,200	A/C	25	61341225	EHT 125-1,6 SG ALU
	2.4	22.23	12,200	A/C	25	61331550	EHT 125-2,4 SG ALU
150	1.6	22.23	10,200	A/C	25	61323116	EHT 150-1,6 SG ALU
180	1.6	22.23	8,500	A/C	25	61326119	EHT 180-1,6 SG ALU
	2.9	22.23	8,500	A/C	25	61326323	EHT 180-2,9 SG ALU
230	1.9	22.23	6,600	A/C	25	61328119	EHT 230-1,9 SG ALU
	2.9	22.23	6,600	A/C	25	61328323	EHT 230-2,9 SG ALU
Depressed-centre design EH (shape 42)							
115	2.4	22.23	13,300	A/C	25	61340312	EH 115-2,4 SG ALU
125	2.4	22.23	12,200	A/C	25	61320822	EH 125-2,4 SG ALU
180	2.9	22.23	8,500	A/C	25	61323323	EH 180-2,9 SG ALU
230	2.9	22.23	6,600	A/C	25	61324323	EH 230-2,9 SG ALU

Discontinued product

CERAMIC SGP STEEL ★★★★

Special cut-off wheel with ceramic oxide grain for steel with ultimate cutting performance and excellent tool life. Suitable for cutting large cross-sections, profiles and solid material, and for cutting out holes.

Special features:

- Extremely fast work progress, even with large cross-sections.
- Previously unattained cutting performance thanks to high-performance abrasive ceramic oxide grain in conjunction with a special bond technology.
- Thin cut-off wheels are ergonomically optimised, efficient and provide impressively fast and thin cuts with minimized burr formation.

D [mm]	T/U [mm]	H [mm]	Max. RPM	Abrasive		Item no.	Designation
Flat design EHT (shape 41)							
100	1.3	16	15,300	CO	25	61301013	EHT 100-1,3 CERAMIC SGP STEEL/16,0
115	1	22.23	13,300	CO	25	61301510	EHT 115-1,0 CERAMIC SGP STEEL
	1.6	22.23	13,300	CO	25	61301516	EHT 115-1,6 CERAMIC SGP STEEL
125	1	22.23	12,200	CO	25	61312510	EHT 125-1,0 CERAMIC SGP STEEL
	1.6	22.23	12,200	CO	25	61312516	EHT 125-1,6 CERAMIC SGP STEEL
	2	22.23	12,200	CO	25	61312520	EHT 125-2,0 CERAMIC SGP STEEL
150	1.6	22.23	10,200	CO	25	61315016	EHT 150-1,6 CERAMIC SGP STEEL
180	1.6	22.23	8,500	CO	25	61318016	EHT 180-1,6 CERAMIC SGP STEEL
	2.5	22.23	8,500	CO	25	61318025	EHT 180-2,5 CERAMIC SGP STEEL
230	1.9	22.23	6,600	CO	25	61323019	EHT 230-1,9 CERAMIC SGP STEEL
	2.5	22.23	6,600	CO	25	61323025	EHT 230-2,5 CERAMIC SGP STEEL
Depressed-centre design EH (shape 42)							
115	1.6	22.23	13,300	CO	25	61300115	EH 115-1,6 CERAMIC SGP STEEL
125	1.6	22.23	12,200	CO	25	61300125	EH 125-1,6 CERAMIC SGP STEEL

Cut-off wheels
Special Line SGP ★★★★

SGP STEELOX ★★★★

Cut-off wheel for steel and stainless steel (INOX) with high cutting performance and an excellent tool life. Suitable for cutting thin sheet and profiles, and for cutting out holes.

Special features:
- Excellent tool life on thin sheet metal and profiles thanks to wear-resistant bond system.
- Fast work progress thanks to good cutting performance.
- Thin cut-off wheels are ergonomically optimised, efficient and provide impressively fast and thin cuts with minimized burr formation.

D [mm]	T [mm]	H [mm]	Max. RPM	Abrasive		Item no.	Designation
Flat design EHT (shape 41)							
105	0.8	16	14,500	A	25	61330008	EHT 105-0,8 SGP STEELOX/16,0
	1	16	14,500	A	25	61330012	EHT 105-1,0 SGP STEELOX/16,0
115	0.8	22.23	13,300	A	25	61340394	EHT 115-0,8 SGP STEELOX
	1	22.23	13,300	A	25	61330421	EHT 115-1,0 SGP STEELOX
	1.6	22.23	13,300	A	25	61330420	EHT 115-1,6 SGP STEELOX
	2.2	22.23	13,300	A	25	61330422	EHT 115-2,2 SGP STEELOX
125	0.8	22.23	12,200	A	25	61341094	EHT 125-0,8 SGP STEELOX
	1	22.23	12,200	A	25	61331421	EHT 125-1,0 SGP STEELOX
	1.6	22.23	12,200	A	25	61331420	EHT 125-1,6 SGP STEELOX
	2.2	22.23	12,200	A	25	61331622	EHT 125-2,2 SGP STEELOX
150	1.6	22.23	10,200	A	25	61342164	EHT 150-1,6 SGP STEELOX
	2.5	22.23	10,200	A	25	61342225	EHT 150-2,5 SGP STEELOX
180	1.6	22.23	8,500	A	25	61343122	EHT 180-1,6 SGP STEELOX
230	1.9	22.23	6,600	A	25	61328702	EHT 230-1,9 SGP STEELOX
	2.3	22.23	6,600	A	25	61328712	EHT 230-2,3 SGP STEELOX
	2.8	22.23	6,600	A	25	61328722	EHT 230-2,8 SGP STEELOX

Clamping flanges

Clamping flange set for thin 180/230 mm cut-off wheels

Clamping flange set for increasing lateral stability and precise guidance in order to prevent wobbling, especially when using cut-off wheels from 1.6 to 2.0 mm in width with diameters of 180 and 230 mm. The set can be used with any standard angle grinder with an M14 or 5/8"-11 drive spindle.

For angle grinders with a spindle	D [mm]		Item no.	Designation
M 14	76	1	33500760	SFS 76 M14
5/8"-11	76	1	33500761	SFS 76 5/8"-11

Cut-off wheels for foundries
Performance Line SG ★★★☆

SG CAST + INOX ★★★☆

Cut-off wheel optimized for use in harsh conditions in foundries and fettling shops with high cutting performance, good tool life and high lateral stability. Suitable for cutting cast iron, stainless steel (INOX) and cast steel.

Special features:
- The reinforced fabric armouring for tough foundry applications guarantees the highest degree of safety.
- Fast work progress due to high cutting performance and high efficiency thanks to excellent tool life.
- Optimized for use on compressed-air turbine and high-frequency angle grinders.

D [mm]	T/U [mm]	H [mm]	Max. RPM	Abrasive		Item no.	Designation
Flat design EHT (shape 41)							
230	2.9	22.23	6,600	A	25	61328832	EHT 230-2,9 SG CAST+INOX
Depressed-centre design EH (shape 42)							
230	2.9	22.23	6,600	A	25	61324832	EH 230-2,9 SG CAST+INOX

SG CAST + ALU ★★★☆

Cut-off wheel optimized for use in harsh conditions in foundries and fettling shops with high cutting performance, good tool life and high lateral stability. Suitable for cutting grey/nodular cast iron (GG/GJL, GGG/GJS) and hard aluminium alloys.

Special features:
- The reinforced fabric armouring for tough foundry applications guarantees the highest degree of safety.
- Fast work progress due to high cutting performance and high efficiency thanks to excellent tool life.
- Optimized for use on compressed-air turbine and high-frequency angle grinders.

D [mm]	T/U [mm]	H [mm]	Max. RPM	Abrasive		Item no.	Designation
Depressed-centre design EH (shape 42)							
230	3.2	22.23	6,600	A/C	25	61324802	EH 230-3,2 SG CAST+ALU

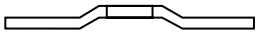
Cut-off wheels for foundries
Performance Line SG ★★★☆

ZIRKON SG CAST ★★★☆

Cut-off wheel optimized for use in foundries and fettling shops with high cutting performance, maximum tool life and high lateral stability. For cutting grey/nodular cast iron (GG/GJL, GGG/GJS).

Special features:

- The reinforced fabric armouring for tough foundry applications guarantees the highest degree of safety.
- Fast work progress due to high cutting performance and maximum efficiency thanks to optimum tool life.
- Optimized for use on compressed-air turbine and high-frequency angle grinders.

D [mm]	T/U [mm]	H [mm]	Max. RPM	Abrasive		Item no.	Designation
Depressed-centre design EH (shape 42) 							
230	3.2	22.23	6,600	Z/C	25	69120642	EH 230-3,2 ZIRKON SG CAST

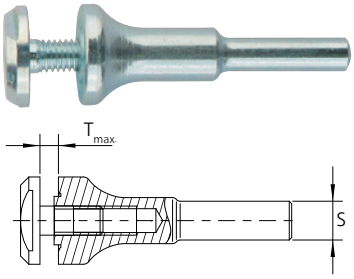
Cut-off wheels for straight grinders
Performance Line SG ★★★☆

SG STEELOX ★★★☆

Universal cut-off wheel for a range of materials, for use on straight grinders. Suitable for cutting sheet metal, profiles and solid material, and for cutting out holes.

Special features:
- Ideal for hard-to-reach areas.
- Thin cut-off wheels are ergonomically optimised, efficient and provide impressively fast and thin cuts with minimized burr formation.
- Maximum economic efficiency due to maximum tool life.

D [mm]	T [mm]	H [mm]	Max. RPM	Abrasive		Item no.	Designation
Flat design EHT (shape 41)							
30	1	6	51,000	A	50	65503010	EHT 30-1,0 SG STEELOX/6,0
	1.4	6	51,000	A	50	65503020	EHT 30-1,4 SG STEELOX/6,0
40	1	6	38,200	A	50	65504010	EHT 40-1,0 SG STEELOX/6,0
	2	6	38,200	A	50	65504020	EHT 40-2,0 SG STEELOX/6,0
50	0.8	6	30,600	A	50	65505008	EHT 50-0,8 SG STEELOX/6,0
	1	6	30,600	A	50	65505000	EHT 50-1,0 SG STEELOX/6,0
	1.4	6	30,600	A	50	65505010	EHT 50-1,4 SG STEELOX/6,0
	2	6	30,600	A	50	65505020	EHT 50-2,0 SG STEELOX/6,0
	3	6	30,600	A	50	65505030	EHT 50-3,0 SG STEELOX/6,0
65	0.8	6	23,500	A	50	65506008	EHT 65-0,8 SG STEELOX/6,0
		10	23,500	A	50	65506009	EHT 65-0,8 SG STEELOX/10,0
	1	6	23,500	A	50	65506000	EHT 65-1,0 SG STEELOX/6,0
		10	23,500	A	50	65506001	EHT 65-1,0 SG STEELOX/10,0
	1.4	10	23,500	A	50	65506011	EHT 65-1,4 SG STEELOX/10,0
	2	10	23,500	A	50	65506021	EHT 65-2,0 SG STEELOX/10,0
	3	10	23,500	A	50	65506031	EHT 65-3,0 SG STEELOX/10,0
70	1	10	21,800	A	50	65507001	EHT 70-1,0 SG STEELOX/10,0
	1.4	10	21,800	A	50	65507011	EHT 70-1,4 SG STEELOX/10,0
	2	10	21,800	A	50	65507021	EHT 70-2,0 SG STEELOX/10,0
76	0.8	6	20,100	A	50	65508009	EHT 76-0,8 SG STEELOX/6,0
		10	20,100	A	50	65508008	EHT 76-0,8 SG STEELOX/10,0
	1	6	20,100	A	50	65508000	EHT 76-1,0 SG STEELOX/6,0
		10	20,100	A	50	65508001	EHT 76-1,0 SG STEELOX/10,0
	1.4	10	20,100	A	50	65508011	EHT 76-1,4 SG STEELOX/10,0
	2	10	20,100	A	50	65508021	EHT 76-2,0 SG STEELOX/10,0
	3	10	20,100	A	50	65508031	EHT 76-3,0 SG STEELOX/10,0



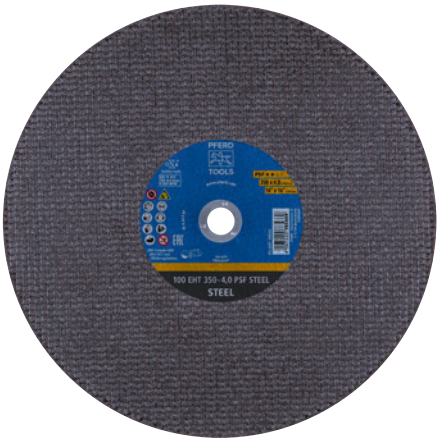
Arbor for small cut-off wheels

Accessory for mounting small cut-off wheels on straight grinders. Sturdy version with maximum shank breakage resistance.

S [mm]	Suitable for hole diameter [mm]	T_{max} [mm]		Item no.	Designation
6	6	0 – 4	1	33510000	BO 6/6 0-4
	10	0 – 4	1	33512000	BO 6/10 0-4
6.35	6	0 – 4	1	33511000	BO 6,35/6 0-4 (1/4)
	10	0 – 4	1	33513000	BO 6,35/10 0-4 (1/4)
8	10	0 – 4	1	33514000	BO 8/10 0-4

Cut-off wheels for petrol cutters and cut-off grinders

Performance Line PSF ★★☆☆



PSF STEEL ★★☆☆

Cut-off wheel for use on petrol cutters and cut-off grinders with high cutting performance and good tool life. Suitable for cutting cast iron and steel.

Special features:
- Fast work progress thanks to good cutting performance.
- High economic efficiency due to good tool life.
- Suitable for hand-held cutting.

Maximum operating speed [m/s]	D [mm]	T [mm]	H [mm]	Max. RPM	Abrasive		Item no.	Designation
Flat design EHT (type 41)								
100	350	4	20	5,500	A	10	61329510	100 EHT 350-4,0 PSF STEEL/20,0
			25.4	5,500	A	10	61329515	100 EHT 350-4,0 PSF STEEL/25,4

Performance Line SG ★★★☆

SG STEEL ★★★☆

Cut-off wheel for use on petrol cutters and cut-off grinders with high cutting performance and maximum tool life. Suitable for cutting cast iron and steel.

Special features:
- Fast work progress thanks to good cutting performance.
- Maximum economic efficiency due to maximum tool life.
- Suitable for hand-held cutting.

Maximum operating speed [m/s]	D [mm]	T [mm]	H [mm]	Max. RPM	Abrasive		Item no.	Designation
Flat design EHT (type 41)								
80	300	4	20	5,100	A	20	61329320	80 EHT 300-4,0 SG STEEL/20,0
			22.23	5,100	A	20	61329322	80 EHT 300-4,0 SG STEEL/22,23
			25.4	5,100	A	20	61329325	80 EHT 300-4,0 SG STEEL/25,4
100	300	4	20	6,400	A	20	61329120	100 EHT 300-4,0 SG STEEL/20,0
			22.23	6,400	A	20	61329122	100 EHT 300-4,0 SG STEEL/22,23
			25.4	6,400	A	20	61329125	100 EHT 300-4,0 SG STEEL/25,4
	350	4.5	20	5,500	A	10	61329520	100 EHT 350-4,5 SG STEEL/20,0
			22.23	5,500	A	10	61329522	100 EHT 350-4,5 SG STEEL/22,23
			25.4	5,500	A	10	61329525	100 EHT 350-4,5 SG STEEL/25,4
	400	4.8	20	4,800	A	10	61329820	100 EHT 400-4,8 SG STEEL/20,0
			22.23	4,800	A	10	61329822	100 EHT 400-4,8 SG STEEL/22,23
			25.4	4,800	A	10	61329825	100 EHT 400-4,8 SG STEEL/25,4

New item

Cut-off wheels for petrol cutters and cut-off grinders

Performance Line SG ★★★☆

SG STONE ★★★☆

Cut-off wheel for use on petrol cutters and cut-off grinders with high cutting performance and maximum tool life. Suitable for cutting aluminium, asphalt, cast iron, concrete, stone and other non-ferrous metals.

Special features:
- Fast work progress thanks to good cutting performance.
- Maximum economic efficiency due to maximum tool life.
- Suitable for hand-held cutting.

Maximum operating speed [m/s]	D [mm]	T [mm]	H [mm]	Max. RPM	Abrasive		Item no.	Designation
Flat design EHT (type 41)								
80	300	4	20	5,100	C	20	61629320	80 EHT 300-4,0 SG STONE/20,0
			22.23	5,100	C	20	61629322	80 EHT 300-4,0 SG STONE/22,23
			25.4	5,100	C	20	61629325	80 EHT 300-4,0 SG STONE/25,4
100	350	4.5	20	5,500	C	10	61629520	100 EHT 350-4,5 SG STONE/20,0
			22.23	5,500	C	10	61629522	100 EHT 350-4,5 SG STONE/22,23
			25.4	5,500	C	10	61629525	100 EHT 350-4,5 SG STONE/25,4

SG CAST + STONE ★★★☆

Cut-off wheel for use on petrol cutters and cut-off grinders with high cutting performance and maximum tool life. Suitable for cutting cast iron, concrete, ductile cast iron and reinforced concrete.

Special features:
- Fast work progress thanks to good cutting performance.
- Maximum economic efficiency due to maximum tool life.
- Suitable for hand-held cutting.

Maximum operating speed [m/s]	D [mm]	T [mm]	H [mm]	Max. RPM	Abrasive		Item no.	Designation
Flat design EHT (type 41)								
100	300	4	20	6,400	A/C	20	61329130	100 EHT 300-4,0 SG CAST+STONE/20,0
			22.23	6,400	A/C	20	61329131	100 EHT 300-4,0 SG CAST+STONE/22,23
			25.4	6,400	A/C	20	61329132	100 EHT 300-4,0 SG CAST+STONE/25,4
	350	4.5	20	5,500	A/C	10	61329530	100 EHT 350-4,5 SG CAST+STONE/20,0
			22.23	5,500	A/C	10	*61329531*	100 EHT 350-4,5 SG CAST+STONE/22,23
			25.4	5,500	A/C	10	61329532	100 EHT 350-4,5 SG CAST+STONE/25,4

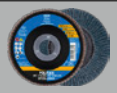
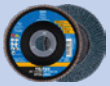
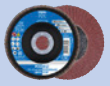
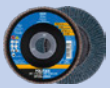
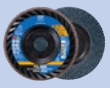
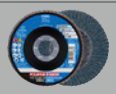
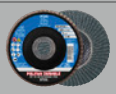
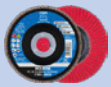
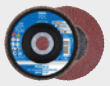
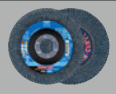
Discontinued product

POLIFAN flap discs

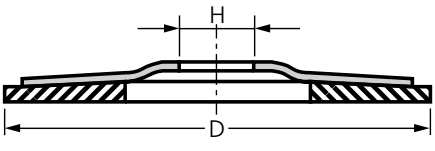
The quick way to find the perfect tool

PFERD TOOLS

Product group selection

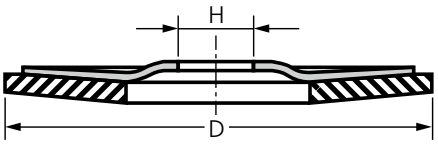
Application	Product line	Steel (STEEL)			Stainless steel (INOX)		Aluminium (ALU)
■ Surface grinding ■ Work on weld seams	**Universal Line PSF** ★★☆☆	 Z PSF STEELOX	Z PSF TRIM STEELOX	A PSF STEELOX	 Z PSF STEELOX	Z PSF TRIM STEELOX	
	Performance Line SG ★★★☆	Z SG POWER STEELOX	Z SG POWER TRIM STEELOX	A SG STEELOX	CO-FREEZE SG INOX	 A-COOL SG INOX + ALU	A-COOL SG INOX + ALU
	Special Line SGP ★★★★	Z SGP STRONG STEEL	Z SGP POLIFAN FORCE		CO-FREEZE SGP STRONG INOX		
■ Chamfering ■ Deburring	**Universal Line PSF** ★★☆☆	Z PSF STEELOX	Z PSF TRIM STEELOX		 Z PSF STEELOX	 Z PSF TRIM STEELOX	
	Performance Line SG ★★★☆	 Z SG POWER STEELOX	Z SG POWER TRIM STEELOX	 Z SG DURABLE STEEL	 CO-COOL SG STEELOX	Z SG POWER STEELOX	Z SG POWER TRIM STEELOX	 A-COOL SG INOX + ALU
	Special Line SGP ★★★★	Z SGP STRONG STEEL	Z SGP POLIFAN FORCE				
■ Work on fillet welds	**Special Line SGP** ★★★★	 Z SGP CURVE STEELOX			CO SGP CURVE STEELOX		A SGP CURVE ALU

Shape selection



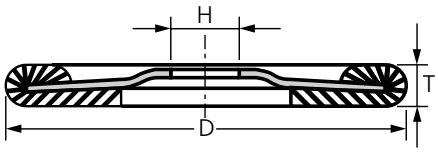
Flat design PFF

Larger grinding area for surface grinding. Optimum exploitation of the flap configuration at a contact angle of 0–15°.



Conical type PFC

Narrower grinding area for work on weld seams, chamfering and deburring. Optimum exploitation of the flap configuration at a contact angle of 10–25°.



Radial type PFR (CURVE)

The specialist for work on fillet welds. After the circumference has worn down, can continue to be used as a conventional flap disc.

POLIFAN flap discs
The quick way to find the perfect tool

PFERD TOOLS

Grit size selection

Note: With POLIFAN flap discs, grit that is one grade coarser can be selected in order to achieve the same surface as with fibre discs.

	Grit size			
	36/40	50/60	80	120
Application	Work on weld seams			
	Chamfering			
		Deburring		
		Surface grinding for refining the surface		

Universal Line PSF ★★☆☆

A PSF STEELOX ★★☆☆

POLIFAN flap disc for steel and stainless steel (INOX) with high stock removal rate and good tool life. Suitable for surface grinding and work on weld seams.

Special features:
- Fast work progress and high economic efficiency thanks to the good stock removal rate.
- Good tool life.
- Also ideal for cordless angle grinders.

D [mm]	Grit size	H [mm]	Max. RPM	Abrasive		Item no.	Designation
Flat design PFF							
115	40	22.23	13,300	A	10	67644115	PFF 115 A 40 PSF STEELOX
	60	22.23	13,300	A	10	67646115	PFF 115 A 60 PSF STEELOX
	80	22.23	13,300	A	10	67648115	PFF 115 A 80 PSF STEELOX
	120	22.23	13,300	A	10	67649115	PFF 115 A 120 PSF STEELOX
125	40	22.23	12,200	A	10	67644125	PFF 125 A 40 PSF STEELOX
	60	22.23	12,200	A	10	67646125	PFF 125 A 60 PSF STEELOX
	80	22.23	12,200	A	10	67648125	PFF 125 A 80 PSF STEELOX
	120	22.23	12,200	A	10	67649125	PFF 125 A 120 PSF STEELOX
180	40	22.23	8,500	A	10	67644185	PFF 180 A 40 PSF STEELOX
Conical type PFC							
115	40	22.23	13,300	A	10	67744115	PFC 115 A 40 PSF STEELOX
	60	22.23	13,300	A	10	67746115	PFC 115 A 60 PSF STEELOX
	80	22.23	13,300	A	10	67748115	PFC 115 A 80 PSF STEELOX
	120	22.23	13,300	A	10	67749115	PFC 115 A 120 PSF STEELOX
125	40	22.23	12,200	A	10	67744125	PFC 125 A 40 PSF STEELOX
	60	22.23	12,200	A	10	67746125	PFC 125 A 60 PSF STEELOX
	80	22.23	12,200	A	10	67748125	PFC 125 A 80 PSF STEELOX
	120	22.23	12,200	A	10	67749125	PFC 125 A 120 PSF STEELOX
180	40	22.23	8,500	A	10	67744185	PFC 180 A 40 PSF STEELOX
	60	22.23	8,500	A	10	67746185	PFC 180 A 60 PSF STEELOX

POLIFAN flap discs
Universal Line PSF ★★☆☆

Z PSF STEELOX ★★☆☆

POLIFAN flap disc for steel and stainless steel (INOX) with aggressive stock removal rate and good tool life. Suitable for surface grinding, chamfering, deburring and work on weld seams.

Special features:
- Fast work progress and high economic efficiency thanks to the aggressive stock removal rate.
- Good tool life.
- Also suitable for low-power angle grinders.

D [mm]	Grit size	H [mm]	Max. RPM	Abrasive		Item no.	Designation
Flat design PFF							
100	40	16	15,300	Z	10	69300660	PFF 100 Z 40 PSF STEELOX/16,0
	60	16	15,300	Z	10	69300661	PFF 100 Z 60 PSF STEELOX/16,0
	80	16	15,300	Z	10	69300662	PFF 100 Z 80 PSF STEELOX/16,0
115	40	22.23	13,300	Z	10	67664115	PFF 115 Z 40 PSF STEELOX
	60	22.23	13,300	Z	10	67666115	PFF 115 Z 60 PSF STEELOX
	80	22.23	13,300	Z	10	67668115	PFF 115 Z 80 PSF STEELOX
125	40	22.23	12,200	Z	10	67664125	PFF 125 Z 40 PSF STEELOX
	60	22.23	12,200	Z	10	67666125	PFF 125 Z 60 PSF STEELOX
	80	22.23	12,200	Z	10	67668125	PFF 125 Z 80 PSF STEELOX
180	40	22.23	8,500	Z	10	67664185	PFF 180 Z 40 PSF STEELOX
	60	22.23	8,500	Z	10	67666185	PFF 180 Z 60 PSF STEELOX
Conical type PFC							
100	40	16	15,300	Z	10	67764100	PFC 100 Z 40 PSF STEELOX/16.0
	60	16	15,300	Z	10	67766100	PFC 100 Z 60 PSF STEELOX/16,0
	80	16	15,300	Z	10	67768100	PFC 100 Z 80 PSF STEELOX/16,0
	120	16	15,300	Z	10	67769100	PFC 100 Z 120 PSF STEELOX/16,0
115	40	22.23	13,300	Z	10	67764115	PFC 115 Z 40 PSF STEELOX
	60	22.23	13,300	Z	10	67766115	PFC 115 Z 60 PSF STEELOX
	80	22.23	13,300	Z	10	67768115	PFC 115 Z 80 PSF STEELOX
	120	22.23	13,300	Z	10	67769115	PFC 115 Z 120 PSF STEELOX
125	40	22.23	12,200	Z	10	67764125	PFC 125 Z 40 PSF STEELOX
	60	22.23	12,200	Z	10	67766125	PFC 125 Z 60 PSF STEELOX
	80	22.23	12,200	Z	10	67768125	PFC 125 Z 80 PSF STEELOX
	120	22.23	12,200	Z	10	67769125	PFC 125 Z 120 PSF STEELOX
150	40	22.23	10,200	Z	10	67764150	PFC 150 Z 40 PSF STEELOX
	60	22.23	10,200	Z	10	67766150	PFC 150 Z 60 PSF STEELOX
180	40	22.23	8,500	Z	10	67764185	PFC 180 Z 40 PSF STEELOX
	60	22.23	8,500	Z	10	67766185	PFC 180 Z 60 PSF STEELOX
	80	22.23	8,500	Z	10	67768185	PFC 180 Z 80 PSF STEELOX
	120	22.23	8,500	Z	10	67769185	PFC 180 Z 120 PSF STEELOX
Conical design PFC with X-LOCK mounting						X-LOCK	
115	40	22.23	13,300	Z	10	67664116	PFC 115 Z 40 PSF STEELOX/X-LOCK
	60	22.23	13,300	Z	10	67666116	PFC 115 Z 60 PSF STEELOX/X-LOCK
	80	22.23	13,300	Z	10	67668116	PFC 115 Z 80 PSF STEELOX/X-LOCK
125	40	22.23	12,200	Z	10	67664126	PFC 125 Z 40 PSF STEELOX/X-LOCK
	60	22.23	12,200	Z	10	67666126	PFC 125 Z 60 PSF STEELOX/X-LOCK
	80	22.23	12,200	Z	10	67668126	PFC 125 Z 80 PSF STEELOX/X-LOCK

POLIFAN flap discs
Universal Line PSF ★★☆☆

Z PSF TRIM STEELOX ★★☆☆

POLIFAN flap disc for steel and stainless steel (INOX) with aggressive stock removal rate and good tool life. Suitable for surface grinding, chamfering, deburring, gradual fine grinding and work on weld seams.

Special features:
- Fast work progress and high economic efficiency thanks to the aggressive stock removal rate.
- Trimming the tool enables the abrasive to be used optimally.
- Also suitable for low-power angle grinders.

D [mm]	Grit size	H [mm]	Max. RPM	Abrasive		Item no.	Designation
Conical type PFC							
115	40	22.23	13,300	Z	10	67771114	PFC 115 Z 40 PSF TRIM STEELOX
	60	22.23	13,300	Z	10	67771116	PFC 115 Z 60 PSF TRIM STEELOX
	80	22.23	13,300	Z	10	67771118	PFC 115 Z 80 PSF TRIM STEELOX
125	40	22.23	12,200	Z	10	67771124	PFC 125 Z 40 PSF TRIM STEELOX
	60	22.23	12,200	Z	10	67771126	PFC 125 Z 60 PSF TRIM STEELOX
	80	22.23	12,200	Z	10	67771128	PFC 125 Z 80 PSF TRIM STEELOX

Performance Line SG ★★★☆

A SG STEELOX ★★★☆

POLIFAN flap disc for steel and stainless steel (INOX) with high stock removal rate and very long tool life. Suitable for surface grinding and work on weld seams.

Special features:
- Fast work progress and high economic efficiency thanks to the good stock removal rate.
- Fewer tool changes due to the very long tool life.

D [mm]	Grit size	H [mm]	Max. RPM	Abrasive		Item no.	Designation
Flat design PFF							
100	40	16	15,300	A	10	67604100	PFF 100 A 40 SG STEELOX/16,0
	60	16	15,300	A	10	67606100	PFF 100 A 60 SG STEELOX/16,0
	80	16	15,300	A	10	67608100	PFF 100 A 80 SG STEELOX/16,0
	120	16	15,300	A	10	67612100	PFF 100 A 120 SG STEELOX/16,0
115	40	22.23	13,300	A	10	67604115	PFF 115 A 40 SG STEELOX
	60	22.23	13,300	A	10	67606115	PFF 115 A 60 SG STEELOX
	80	22.23	13,300	A	10	67608115	PFF 115 A 80 SG STEELOX
	120	22.23	13,300	A	10	67612115	PFF 115 A 120 SG STEELOX
125	40	22.23	12,200	A	10	67604125	PFF 125 A 40 SG STEELOX
	60	22.23	12,200	A	10	67606125	PFF 125 A 60 SG STEELOX
	80	22.23	12,200	A	10	67608125	PFF 125 A 80 SG STEELOX
	120	22.23	12,200	A	10	67612125	PFF 125 A 120 SG STEELOX
180	40	22.23	8,500	A	10	67604185	PFF 180 A 40 SG STEELOX

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POLIFAN flap discs
Performance Line SG ★★★☆

D [mm]	Grit size	H [mm]	Max. RPM	Abrasive		Item no.	Designation
180	60	22.23	8,500	A	10	67606185	PFF 180 A 60 SG STEELOX
	80	22.23	8,500	A	10	67608185	PFF 180 A 80 SG STEELOX
	120	22.23	8,500	A	10	67612185	PFF 180 A 120 SG STEELOX
Conical type PFC							
115	40	22.23	13,300	A	10	67704115	PFC 115 A 40 SG STEELOX
	60	22.23	13,300	A	10	67706115	PFC 115 A 60 SG STEELOX
	80	22.23	13,300	A	10	67708115	PFC 115 A 80 SG STEELOX
	120	22.23	13,300	A	10	67712115	PFC 115 A 120 SG STEELOX
125	40	22.23	12,200	A	10	67704125	PFC 125 A 40 SG STEELOX
	60	22.23	12,200	A	10	67706125	PFC 125 A 60 SG STEELOX
	80	22.23	12,200	A	10	67708125	PFC 125 A 80 SG STEELOX
	120	22.23	12,200	A	10	67712125	PFC 125 A 120 SG STEELOX
180	40	22.23	8,500	A	10	67704185	PFC 180 A 40 SG STEELOX
	60	22.23	8,500	A	10	67706185	PFC 180 A 60 SG STEELOX
	80	22.23	8,500	A	10	67708185	PFC 180 A 80 SG STEELOX
	120	22.23	8,500	A	10	67712185	PFC 180 A 120 SG STEELOX

A-COOL SG INOX + ALU ★★★☆

POLIFAN flap disc with particularly cool grinding on materials that do not conduct heat well such as stainless steel (INOX) and aluminium. Suitable for surface grinding, chamfering, deburring and work on weld seams.

Special features:
- Less heat build-up in the workpiece compared with other flap discs.
- The active grinding abrasive coating prevents clogging, for example on soft aluminium.

D [mm]	Grit size	H [mm]	Max. RPM	Abrasive		Item no.	Designation
Flat design PFF							
100	40	16	15,300	A-COOL	10	67654100	PFF 100 A-COOL 40 SG INOX+ALU/16,0
	60	16	15,300	A-COOL	10	67656100	PFF 100 A-COOL 60 SG INOX+ALU/16,0
	80	16	15,300	A-COOL	10	67658100	PFF 100 A-COOL 80 SG INOX+ALU/16,0
115	40	22.23	13,300	A-COOL	10	67654115	PFF 115 A-COOL 40 SG INOX+ALU
	60	22.23	13,300	A-COOL	10	67656115	PFF 115 A-COOL 60 SG INOX+ALU
	80	22.23	13,300	A-COOL	10	67658115	PFF 115 A-COOL 80 SG INOX+ALU
125	40	22.23	12,200	A-COOL	10	67654125	PFF 125 A-COOL 40 SG INOX+ALU
	60	22.23	12,200	A-COOL	10	67656125	PFF 125 A-COOL 60 SG INOX+ALU
	80	22.23	12,200	A-COOL	10	67658125	PFF 125 A-COOL 80 SG INOX+ALU
180	40	22.23	8,500	A-COOL	10	67654185	PFF 180 A-COOL 40 SG INOX+ALU
	60	22.23	8,500	A-COOL	10	67656185	PFF 180 A-COOL 60 SG INOX+ALU
	80	22.23	8,500	A-COOL	10	67658185	PFF 180 A-COOL 80 SG INOX+ALU
Conical type PFC							
115	40	22.23	13,300	A-COOL	10	67754115	PFC 115 A-COOL 40 SG INOX+ALU
	60	22.23	13,300	A-COOL	10	67756115	PFC 115 A-COOL 60 SG INOX+ALU
	80	22.23	13,300	A-COOL	10	67758115	PFC 115 A-COOL 80 SG INOX+ALU
125	40	22.23	12,200	A-COOL	10	67754125	PFC 125 A-COOL 40 SG INOX+ALU

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POLIFAN flap discs
Performance Line SG ★★★☆

D [mm]	Grit size	H [mm]	Max. RPM	Abrasive		Item no.	Designation
125	60	22.23	12,200	A-COOL	10	67756125	PFC 125 A-COOL 60 SG INOX+ALU
	80	22.23	12,200	A-COOL	10	67758125	PFC 125 A-COOL 80 SG INOX+ALU
180	40	22.23	8,500	A-COOL	10	67754185	PFC 180 A-COOL 40 SG INOX+ALU
	60	22.23	8,500	A-COOL	10	67756185	PFC 180 A-COOL 60 SG INOX+ALU
	80	22.23	8,500	A-COOL	10	*67758185*	PFC 180 A-COOL 80 SG INOX+ALU

Z SG POWER STEELOX ★★★☆

The POLIFAN Z SG POWER STEELOX flap disc stands out due to its aggressive stock removal rate and excellent tool life while achieving maximum efficiency. Suitable for work on weld seams, as well as for chamfering and deburring.

Special features:
- Fast work progress and maximum economic efficiency thanks to the aggressive stock removal rate.
- Maximum aggressiveness over the entire tool life.
- Fewer tool changes due to the excellent tool life.

D [mm]	Grit size	H [mm]	Max. RPM	Abrasive		Item no.	Designation
Flat design PFF							
115	40	22.23	13,300	Z	10	67684115	PFF 115 Z 40 SG POWER STEELOX
	50	22.23	13,300	Z	10	*67685116*	PFF 115 Z 50 SG POWER STEELOX
	60	22.23	13,300	Z	10	67686115	PFF 115 Z 60 SG POWER STEELOX
125	40	22.23	12,200	Z	10	67684125	PFF 125 Z 40 SG POWER STEELOX
	50	22.23	12,200	Z	10	*67685126*	PFF 125 Z 50 SG POWER STEELOX
	60	22.23	12,200	Z	10	67686125	PFF 125 Z 60 SG POWER STEELOX
180	40	22.23	8,500	Z	10	67684185	PFF 180 Z 40 SG POWER STEELOX
	50	22.23	8,500	Z	10	*67685186*	PFF 180 Z 50 SG POWER STEELOX
	60	22.23	8,500	Z	10	67686185	PFF 180 Z 60 SG POWER STEELOX
Conical type PFC							
115	40	22.23	13,300	Z	10	67784115	PFC 115 Z 40 SG POWER STEELOX
	50	22.23	13,300	Z	10	67785116	PFC 115 Z 50 SG POWER STEELOX
	60	22.23	13,300	Z	10	67786115	PFC 115 Z 60 SG POWER STEELOX
	80	22.23	13,300	Z	10	67788116	PFC 115 Z 80 SG POWER STEELOX
	120	22.23	13,300	Z	10	67789116	PFC 115 Z 120 SG POWER STEELOX
125	40	22.23	12,200	Z	10	67784125	PFC 125 Z 40 SG POWER STEELOX
	50	22.23	12,200	Z	10	67785126	PFC 125 Z 50 SG POWER STEELOX
	60	22.23	12,200	Z	10	67786125	PFC 125 Z 60 SG POWER STEELOX
	80	22.23	12,200	Z	10	67788126	PFC 125 Z 80 SG POWER STEELOX
	120	22.23	12,200	Z	10	67789126	PFC 125 Z 120 SG POWER STEELOX
150	40	22.23	10,200	Z	10	67784150	PFC 150 Z 40 SG POWER STEELOX
	60	22.23	10,200	Z	10	67786150	PFC 150 Z 60 SG POWER STEELOX
180	40	22.23	8,500	Z	10	67784185	PFC 180 Z 40 SG POWER STEELOX
	50	22.23	8,500	Z	10	67785186	PFC 180 Z 50 SG POWER STEELOX
	60	22.23	8,500	Z	10	67786185	PFC 180 Z 60 SG POWER STEELOX

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Discontinued product

POLIFAN flap discs
Performance Line SG ★★★☆

D [mm]	Grit size	H [mm]	Max. RPM	Abrasive		Item no.	Designation
Conical design PFC with X-LOCK mounting						**X-LOCK**	
125	40	22.23	12,200	Z	10	67784126	PFC 125 Z 40 SG POWER STEELOX/X-LOCK
	60	22.23	12,200	Z	10	67786126	PFC 125 Z 60 SG POWER STEELOX/X-LOCK
	80	22.23	12,200	Z	10	67788127	PFC 125 Z 80 SG POWER STEELOX/X-LOCK

Z SG POWER TRIM STEELOX ★★★☆

The POLIFAN Z SG POWER TRIM STEELOX flap disc stands out due to its aggressive stock removal rate and excellent tool life while achieving maximum efficiency. Suitable for work on weld seams, as well as for chamfering and deburring.

Special features:
- Fast work progress and maximum economic efficiency thanks to the aggressive stock removal rate.
- Trimming the tool enables the abrasive to be used optimally.
- Fewer tool changes due to the excellent tool life.

D [mm]	Grit size	H [mm]	Max. RPM	Abrasive		Item no.	Designation
Conical type PFC							
115	40	22.23	13,300	Z	10	67772114	PFC 115 Z 40 SG POWER TRIM STEELOX
	60	22.23	13,300	Z	10	67772116	PFC 115 Z 60 SG POWER TRIM STEELOX
	80	22.23	13,300	Z	10	67772118	PFC 115 Z 80 SG POWER TRIM STEELOX
125	40	22.23	12,200	Z	10	69301039	PFC 125 Z 40 SG POWER TRIM STEELOX
	60	22.23	12,200	Z	10	67772126	PFC 125 Z 60 SG POWER TRIM STEELOX
	80	22.23	12,200	Z	10	67772128	PFC 125 Z 80 SG POWER TRIM STEELOX

Z SG DURABLE STEEL ★★★☆

The powerful POLIFAN Z SG DURABLE STEEL flap disc is especially well-suited to applications in which the flaps are subjected to higher mechanical loads and to applications involving coarser work, e.g. chamfering or working on burn burrs.

Special features:
- Fast work progress and maximum economic efficiency thanks to the aggressive stock removal rate.
- Maximum aggressiveness over the entire tool life.
- Fewer tool changes due to the ultimate tool life.

D [mm]	Grit size	H [mm]	Max. RPM	Abrasive		Item no.	Designation
Conical type PFC							
115	40	22.23	13,300	Z	10	67782114	PFC 115 Z 40 SG DURABLE STEEL
	60	22.23	13,300	Z	10	67782116	PFC 115 Z 60 SG DURABLE STEEL
125	40	22.23	12,200	Z	10	67782124	PFC 125 Z 40 SG DURABLE STEEL
	60	22.23	12,200	Z	10	67782126	PFC 125 Z 60 SG DURABLE STEEL

POLIFAN flap discs
Performance Line SG ★★★☆

CO-COOL SG STEELOX ★★★☆

POLIFAN flap disc with particularly cool grinding for materials that are difficult to machine such as high-alloy and rust-resistant steel, nickel-based alloys or titanium alloys. Suitable for surface grinding, chamfering, deburring and work on weld seams.

Special features:
- The self-sharpening action of the ceramic oxide grain guarantees optimal results, even on materials that are difficult to machine.
- Less heat build-up in the workpiece compared with other flap discs.

D [mm]	Grit size	H [mm]	Max. RPM	Abrasive		Item no.	Designation
Flat design PFF							
115	40	22.23	13,300	CO-COOL	10	67660415	PFF 115 CO-COOL 40 SG STEELOX
	60	22.23	13,300	CO-COOL	10	67660615	PFF 115 CO-COOL 60 SG STEELOX
125	40	22.23	12,200	CO-COOL	10	67660425	PFF 125 CO-COOL 40 SG STEELOX
	60	22.23	12,200	CO-COOL	10	67660625	PFF 125 CO-COOL 60 SG STEELOX
180	40	22.23	8,500	CO-COOL	10	67660485	PFF 180 CO-COOL 40 SG STEELOX
Conical type PFC							
115	40	22.23	13,300	CO-COOL	10	67760415	PFC 115 CO-COOL 40 SG STEELOX
	60	22.23	13,300	CO-COOL	10	67760615	PFC 115 CO-COOL 60 SG STEELOX
125	40	22.23	12,200	CO-COOL	10	67760425	PFC 125 CO-COOL 40 SG STEELOX
	60	22.23	12,200	CO-COOL	10	67760625	PFC 125 CO-COOL 60 SG STEELOX
180	40	22.23	8,500	CO-COOL	10	67760485	PFC 180 CO-COOL 40 SG STEELOX

CO-FREEZE SG INOX ★★★☆

POLIFAN flap disc specifically designed for stainless steel (INOX) with very cool grinding. Suitable for surface grinding and work on weld seams. No heat discolouration occurs, which means that no reworking is required.

Special features:
- The FREEZE coating significantly reduces heat build-up in the workpiece compared with standard flap discs.
- The usual flying sparks are minimized.
- Damage to stainless steel workpieces from flying glowing sparks is therefore almost entirely ruled out.

D [mm]	Grit size	H [mm]	Max. RPM	Abrasive		Item no.	Designation
Flat design PFF							
115	36	22.23	13,300	CO-FREEZE	10	67611536	PFF 115 CO-FREEZE 36 SG INOX
	50	22.23	13,300	CO-FREEZE	10	67611550	PFF 115 CO-FREEZE 50 SG INOX
	80	22.23	13,300	CO-FREEZE	10	67611580	PFF 115 CO-FREEZE 80 SG INOX
125	36	22.23	12,200	CO-FREEZE	10	67612536	PFF 125 CO-FREEZE 36 SG INOX
	50	22.23	12,200	CO-FREEZE	10	67612550	PFF 125 CO-FREEZE 50 SG INOX
	80	22.23	12,200	CO-FREEZE	10	67612580	PFF 125 CO-FREEZE 80 SG INOX

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POLIFAN flap discs
Performance Line SG ★★★☆

D [mm]	Grit size	H [mm]	Max. RPM	Abrasive		Item no.	Designation
Conical type PFC							
115	36	22.23	13,300	CO-FREEZE	10	67711536	PFC 115 CO-FREEZE 36 SG INOX
	50	22.23	13,300	CO-FREEZE	10	67711550	PFC 115 CO-FREEZE 50 SG INOX
	80	22.23	13,300	CO-FREEZE	10	67711580	PFC 115 CO-FREEZE 80 SG INOX
125	36	22.23	12,200	CO-FREEZE	10	67712536	PFC 125 CO-FREEZE 36 SG INOX
	50	22.23	12,200	CO-FREEZE	10	67712550	PFC 125 CO-FREEZE 50 SG INOX
	80	22.23	12,200	CO-FREEZE	10	67712580	PFC 125 CO-FREEZE 80 SG INOX
180	36	22.23	8,500	CO-FREEZE	10	67718036	PFC 180 CO-FREEZE 36 SG INOX
	50	22.23	8,500	CO-FREEZE	10	67718050	PFC 180 CO-FREEZE 50 SG INOX

Special Line SGP ★★★★

Z SGP FORCE STEEL ★★★★

The innovative POLIFAN FORCE flap disc delivers an exceptionally high performance level. Its design is significantly more efficient than conventional flap discs. Suitable for work on weld seams, as well as for chamfering and deburring.

Special features:
- Fast grinding thanks to constant grinding aggressiveness down to the last abrasive grit.
- Ultimate economic efficiency thanks to maximum stock removal per time unit and less wear on discs.
- Suitable for working on fillet welds.

D [mm]	Grit size	H [mm]	Max. RPM	Abrasive		Item no.	Designation
Flat design PFF							
125	40	22.23	12,200	Z	10	67688124	PFF 125 Z 40 SGP FORCE STEEL
	60	22.23	12,200	Z	10	67688126	PFF 125 Z 60 SGP FORCE STEEL

Z SGP STRONG STEEL ★★★★

The innovative POLIFAN STRONG flap disc delivers an exceptionally high performance level. Its design is significantly more efficient than conventional flap discs. Suitable for work on weld seams, as well as for chamfering and deburring.

Special features:
- Fast grinding thanks to constant grinding aggressiveness down to the last abrasive grit.
- Ultimate economic efficiency thanks to maximum stock removal per time unit and less wear on discs, plus the ultimate tool life.
- PFERD TOOLS' POLIFAN STRONG is patented in many countries across the globe.

D [mm]	Grit size	H [mm]	Max. RPM	Abrasive		Item no.	Designation
Conical type PFC							
115	36	22.23	13,300	Z	10	67788015	PFC 115 Z 36 SGP STRONG STEEL
	50	22.23	13,300	Z	10	67788115	PFC 115 Z 50 SGP STRONG STEEL
125	36	22.23	12,200	Z	10	67788025	PFC 125 Z 36 SGP STRONG STEEL

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POLIFAN flap discs
Special Line SGP ★★★★

D [mm]	Grit size	H [mm]	Max. RPM	Abrasive		Item no.	Designation
125	50	22.23	12,200	Z	10	67788125	PFC 125 Z 50 SGP STRONG STEEL
180	36	22.23	8,500	Z	10	67788080	PFC 180 Z 36 SGP STRONG STEEL
	50	22.23	8,500	Z	10	67788180	PFC 180 Z 50 SGP STRONG STEEL

CO-FREEZE SGP STRONG INOX ★★★★

Flap disc combining the STRONG design and its long, compact flaps with an innovative abrasive. Suitable for surface grinding and work on weld seams. The POLIFAN STRONG is patented in many countries across the globe.

Special features:
- Self-sharpening ceramic oxide grain and active grinding FREEZE special coating achieve very cool grinding and ensure that no heat discolouration occurs.
- The usual flying sparks are minimized.
- Damage to stainless steel workpieces from flying glowing sparks is therefore almost entirely ruled out.

D [mm]	Grit size	H [mm]	Max. RPM	Abrasive		Item no.	Designation
Conical type PFC							
115	36	22.23	13,300	CO-FREEZE	10	67789015	PFC 115 CO-FREEZE 36 SGP STRONG INOX
	50	22.23	13,300	CO-FREEZE	10	67789115	PFC 115 CO-FREEZE 50 SGP STRONG INOX
125	36	22.23	12,200	CO-FREEZE	10	67789025	PFC 125 CO-FREEZE 36 SGP STRONG INOX
	50	22.23	12,200	CO-FREEZE	10	67789125	PFC 125 CO-FREEZE 50 SGP STRONG INOX

POLIFAN flap discs
Special Line SGP ★★★★

Z SGP CURVE STEELOX ★★★★

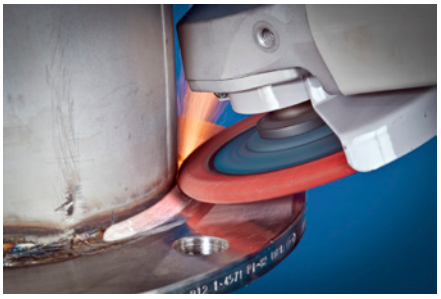
High-performance flap disc for maximum stock removal on steel and stainless steel (INOX). The POLIFAN CURVE flap disc has been specially developed for work on fillet welds. Also suitable for work on weld seams, as well as for chamfering and deburring.

Special features:
- It is the only flap disc in the world that has flaps on the grinding side, on the rear and on the radius.
- Outstanding tool life when working on fillet welds and high stock removal rate, ensuring fast working and lower production costs.
- PFERD TOOLS' POLIFAN CURVE is patented in many countries across the globe.

D [mm]	Fillet weld radius > [mm]	Grit size	Width	H [mm]	Max. RPM	Abra-sive		Item no.	Designation
Radial design PFR									
115	5	40	M (11 mm)	22.23	13,300	Z	10	67689032	PFR 115-M Z 40 SGP CURVE STEELOX
	8	40	L (14 mm)	22.23	13,300	Z	10	67689042	PFR 115-L Z 40 SGP CURVE STEELOX
125	5	40	M (11 mm)	22.23	12,200	Z	10	67689052	PFR 125-M Z 40 SGP CURVE STEELOX
	8	40	L (14 mm)	22.23	12,200	Z	10	67689062	PFR 125-L Z 40 SGP CURVE STEELOX
150	5	40	M (14 mm)	22.23	10,200	Z	10	67689072	PFR 150-M Z 40 SGP CURVE STEELOX
	8	40	L (16 mm)	22.23	10,200	Z	10	67689082	PFR 150-L Z 40 SGP CURVE STEELOX
180	8	40	L (16 mm)	22.23	8,500	Z	10	67689095	PFR 180-L Z 40 SGP CURVE STEELOX
Radial design PFR with X-LOCK mounting							X-LOCK		
125	5	40	M (11 mm)	22.23	12,200	Z	10	67689053	PFR 125-M Z 40 SGP CURVE STEELOX/X-LOCK
	8	40	L (14 mm)	22.23	12,200	Z	10	67689063	PFR 125-L Z 40 SGP CURVE STEELOX/X-LOCK

CO SGP CURVE STEELOX ★★★★

High-performance flap disc for achieving fine finishes on steel and stainless steel (INOX). The POLIFAN CURVE flap disc has been specially developed for work on fillet welds. Also suitable for work on weld seams, as well as for chamfering and deburring.



Special features:
- It is the only flap disc in the world that has flaps on the grinding side, on the rear and on the radius.
- Ceramic oxide grain CO with active-grinding special coating with cooling effect (CO-COOL) – no heat discolouration, even under adverse thermal conditions.
- PFERD TOOLS' POLIFAN CURVE is patented in many countries across the globe.

D [mm]	Fillet weld radius > [mm]	Grit size	Width	H [mm]	Max. RPM	Abrasive		Item no.	Designation
Radial design PFR									
115	5	60	M (11 mm)	22.23	13,300	CO-COOL	10	67689036	PFR 115-M CO 60 SGP CURVE STEELOX
	8	60	L (14 mm)	22.23	13,300	CO-COOL	10	67689046	PFR 115-L CO 60 SGP CURVE STEELOX
125	5	60	M (11 mm)	22.23	12,200	CO-COOL	10	67689056	PFR 125-M CO 60 SGP CURVE STEELOX
	8	60	L (14 mm)	22.23	12,200	CO-COOL	10	67689066	PFR 125-L CO 60 SGP CURVE STEELOX

POLIFAN flap discs
Special Line SGP ★★★★

A SGP CURVE ALU ★★★★

Special flap disc for work on fillet welds on aluminium. The POLIFAN CURVE flap disc has been specially developed for work on fillet welds. Also suitable for work on weld seams, as well as for chamfering and deburring.

Special features:

- It is the only flap disc in the world that has flaps on the grinding side, on the rear and on the radius.
- The active grinding additives prevent clogging and facilitate cool grinding.
- PFERD TOOLS' POLIFAN CURVE is patented in many countries across the globe.

D [mm]	Fillet weld radius > [mm]	Grit size	Width	H [mm]	Max. RPM	Abrasive		Item no.	Designation
Radial design PFR									
115	8	40	L (14 mm)	22.23	13,300	A-COOL	10	67689048	PFR 115-L A 40 SGP CURVE ALU
125	8	40	L (14 mm)	22.23	12,200	A-COOL	10	67689068	PFR 125-L A 40 SGP CURVE ALU

CC-GRIND grinding discs
The quick way to find the perfect tool

PFERD TOOLS

Product group selection

Application	Product line	Steel (STEEL)					Stainless steel (INOX)		
		... SOLID	... FLEX	... STRONG	... ROBUST	... VIEW	... SOLID	... ROBUST	... VIEW
■ Surface grinding ■ Levelling ■ Work on weld seams ■ Chamfering ■ Deburring	**Performance Line SG** ★★★☆	CC-GRIND SOLID SG STEEL		CC-GRIND STRONG SG STEEL			CC-GRIND SOLID SG INOX		
	Special Line SGP ★★★★	CC-GRIND SOLID SGP STEEL			CC-GRIND ROBUST SGP STEELOX	CC-GRIND VIEW SGP STEELOX	CC-GRIND SOLID SGP INOX	CC-GRIND ROBUST SGP STEELOX	CC-GRIND VIEW SGP STEELOX
■ Levelling butt welds	**Performance Line SG** ★★★☆		CC-GRIND FLEX SG STEEL						
	Special Line SGP ★★★★		CC-GRIND FLEX SGP STEEL						

Performance Line SG ★★★☆

CC-GRIND SOLID SG STEEL ★★★☆

Grinding disc for steel with high grinding performance and maximum tool life. Modern, high performance and ergonomic alternative to a grinding wheel. Suitable for surface grinding, chamfering, deburring and work on weld seams.

Special features:
- Extremely fast work progress due to highly aggressive abrasive grit and significantly improved surface compared to grinding wheels.
- Significantly more ergonomic than a grinding wheel: 50% reduction in noise and vibrations, 80% less dust.
- Layered structure of the glass fibre backing pad guarantees use that is just as durable and safe as with a grinding wheel.

D [mm]	H [mm]	Max. RPM	Abrasive		Item no.	Designation
SOLID						
115	22.23	13,300	CO-COOL	10	64185115	CC-GRIND SOLID 115 SG STEEL
125	22.23	12,200	CO-COOL	10	64185125	CC-GRIND SOLID 125 SG STEEL
150	22.23	10,200	CO-COOL	10	64185150	CC-GRIND SOLID 150 SG STEEL
180	22.23	8,500	CO-COOL	10	64185180	CC-GRIND SOLID 180 SG STEEL

CC-GRIND grinding discs
Performance Line SG ★★★☆

CC-GRIND SOLID SG INOX ★★★☆

Grinding disc for stainless steel (INOX) with high grinding performance and maximum tool life. Modern, high performance and ergonomic alternative to a grinding wheel. Suitable for work on weld seams, as well as for chamfering and deburring.

Special features:
- Extremely fast work progress due to highly aggressive abrasive grit and significantly improved surface compared to grinding wheels.
- Significantly more ergonomic than a grinding wheel: 50% reduction in noise and vibrations, 80% less dust.
- Layered structure of the glass fibre backing pad guarantees use that is just as durable and safe as with a grinding wheel.

D [mm]	H [mm]	Max. RPM	Abrasive		Item no.	Designation
SOLID						
115	22.23	13,300	CO-COOL	10	64186115	CC-GRIND SOLID 115 SG INOX
125	22.23	12,200	CO-COOL	10	64186125	CC-GRIND SOLID 125 SG INOX
180	22.23	8,500	CO-COOL	10	64186180	CC-GRIND SOLID 180 SG INOX

CC-GRIND FLEX SG STEEL ★★★☆

Semi-flexible grinding disc for steel with high grinding performance and maximum tool life. Butt welds can be completely smoothed. Suitable for work on weld seams, as well as for chamfering and deburring.

Special features:
- Complete smoothing of butt welds – without dents or bumps.
- Significantly more ergonomic than a grinding wheel: 50% reduction in noise and vibrations, 80% less dust.
- Layered structure of the glass fibre backing pad guarantees use that is just as durable and safe as with a grinding wheel.

D [mm]	Grit size	H [mm]	Max. RPM	Abrasive		Item no.	Designation
FLEX							
115	FINE	22.23	13,300	CO-COOL	10	64187115	CC-GRIND FLEX 115 SG STEEL FINE
	COARSE	22.23	13,300	CO-COOL	10	64188115	CC-GRIND FLEX 115 SG STEEL COARSE
125	FINE	22.23	12,200	CO-COOL	10	64187125	CC-GRIND FLEX 125 SG STEEL FINE
	COARSE	22.23	12,200	CO-COOL	10	64188125	CC-GRIND FLEX 125 SG STEEL COARSE

CC-GRIND grinding discs
Performance Line SG ★★★☆

Clamping flange set for the CC-GRIND SOLID and CC-GRIND FLEX

The CC-GRIND clamping flange set optimally aligns the CC-GRIND SOLID and FLEX in the angle grinder protective guard. This means that the grinding discs can be positioned so that they are particularly flat against the workpiece, therefore maximizing efficiency.

Suitable for angle grinders		Item no.	Designation
Metric			
115 / 125 mm, M14 spindle	1	33500015	SFS CC-GRIND 115/125 M14
150 / 180 mm, M14 spindle	1	33500018	SFS CC-GRIND 150/180 M14
Imperial			
115 / 125 mm, 5/8"-11 spindle	1	33500115	SFS CC-GRIND 115/125 5/8"
150 / 180 mm, 5/8"-11 spindle	1	33500180	SFS CC-GRIND 150/180 5/8"

CC-GRIND STRONG SG STEEL ★★★☆

The CC-GRIND STRONG is the stepping stone between the classic grinding wheel and the modern alternative CC-GRIND SOLID. Suitable for surface grinding, chamfering, deburring and work on weld seams.

Special features:

- Three times the tool life compared to CC-GRIND SOLID SG STEEL due to backer that also grinds and three abrasive layers.
- Extremely fast work progress due to highly aggressive abrasive grit and significantly improved surface compared to grinding wheels.
- Significantly more ergonomic than a grinding wheel: 50% reduction in noise and vibrations, 70% less dust.

D [mm]	H [mm]	Max. RPM	Abrasive		Item no.	Designation
STRONG						
115	22.23	13,300	CO	10	64181115	CC-GRIND STRONG 115 SG STEEL
125	22.23	12,200	CO	10	64181125	CC-GRIND STRONG 125 SG STEEL

CC-GRIND grinding discs
Performance Line SG ★★★☆

CC-GRIND ROBUST SG STEELOX ★★★☆

Grinding disc for steel and stainless steel (INOX) with high grinding performance and maximum tool life. Suitable for surface grinding, chamfering, deburring, gradual fine grinding and work on weld seams.

Special features:
- Extremely fast work progress due to highly aggressive abrasive grit and significantly improved surface compared to grinding wheels.
- Significantly more ergonomic than a grinding wheel: Noise and vibrations are significantly reduced.
- Glass fibre reinforced plastic backer guarantees use that is as robust and safe as with a grinding wheel.

D [mm]	H [mm]	Max. RPM	Abrasive		Item no.	Designation
ROBUST						
115	22.23	13,300	CO	10	*64195115*	CC-GRIND ROBUST 115 SG STEELOX
125	22.23	12,200	CO	10	*64195125*	CC-GRIND ROBUST 125 SG STEELOX

Special Line SGP ★★★★

CC-GRIND SOLID SGP STEEL with VICTOGRAIN abrasive grain ★★★★

Grinding disc with precision-moulded, triangular high-performance **VICTO**GRAIN abrasive for steel with maximum grinding performance and outstanding tool life. Suitable for surface grinding, chamfering, deburring and work on weld seams.

Special features:
- The ultimate in aggressive performance for ultra-fast work progress and significantly improved surfaces compared to grinding wheels.
- Significantly more ergonomic than a grinding wheel: 50% reduction in noise and vibrations, 80% less dust.
- Layered structure of the glass fibre backing pad guarantees use that is just as durable and safe as with a grinding wheel.

D [mm]	H [mm]	Max. RPM	Abrasive		Item no.	Designation
SOLID						
115	22.23	13,300	VICTOGRAIN	10	64187116	CC-GRIND SOLID 115 SGP STEEL
125	22.23	12,200	VICTOGRAIN	10	64187126	CC-GRIND SOLID 125 SGP STEEL
150	22.23	10,200	VICTOGRAIN	10	64187150	CC-GRIND SOLID 150 SGP STEEL
180	22.23	8,500	VICTOGRAIN	10	64187180	CC-GRIND SOLID 180 SGP STEEL

Discontinued product

CC-GRIND grinding discs
Special Line SGP ★★★★

CC-GRIND SOLID SGP INOX with VICTOGRAIN abrasive grain ★★★★

Grinding disc with precision-moulded, triangular high-performance abrasive **VICTO**GRAIN for stainless steel (INOX) with maximum grinding performance and outstanding tool life. Suitable for work on weld seams, as well as for chamfering and deburring.

Special features:
- The ultimate in aggressive performance for ultra-fast work progress and significantly improved surfaces compared to grinding wheels.
- Significantly more ergonomic than a grinding wheel: 50% reduction in noise and vibrations, 80% less dust.
- Layered structure of the glass fibre backing pad guarantees use that is just as durable and safe as with a grinding wheel.

D [mm]	H [mm]	Max. RPM	Abrasive		Item no.	Designation
SOLID						
115	22.23	13,300	VICTOGRAIN	10	64189115	CC-GRIND SOLID 115 SGP INOX
125	22.23	12,200	VICTOGRAIN	10	64189125	CC-GRIND SOLID 125 SGP INOX
180	22.23	8,500	VICTOGRAIN	10	64189180	CC-GRIND SOLID 180 SGP INOX

CC-GRIND FLEX SGP STEEL with VICTOGRAIN abrasive grain ★★★★

Semi-flexible grinding disc with precision-formed, triangular high-performance **VICTO**GRAIN abrasive grain for steel with maximum grinding performance and outstanding tool life. Suitable for work on weld seams and for surface grinding.

Special features:
- Complete smoothing of butt welds – without dents or bumps.
- Significantly more ergonomic than a grinding wheel: 50% reduction in noise and vibrations, 70% less dust.
- Layered structure of the glass fibre backing pad guarantees use that is just as durable and safe as with a grinding wheel.

D [mm]	Grit size	H [mm]	Max. RPM	Abrasive		Item no.	Designation
FLEX							
115	COARSE	22.23	13,300	VICTOGRAIN-COOL	10	*64188116*	CC-GRIND FLEX 115 COARSE SGP STEEL
125	COARSE	22.23	12,200	VICTOGRAIN-COOL	10	64188126	CC-GRIND FLEX 125 COARSE SGP STEEL

Clamping flange set for the CC-GRIND SOLID and CC-GRIND FLEX

The CC-GRIND clamping flange set optimally aligns the CC-GRIND SOLID and FLEX in the angle grinder protective guard. This means that the grinding discs can be positioned so that they are particularly flat against the workpiece, therefore maximizing efficiency.

Suitable for angle grinders		Item no.	Designation
Metric			
115 / 125 mm, M14 spindle	1	33500015	SFS CC-GRIND 115/125 M14
150 / 180 mm, M14 spindle	1	33500018	SFS CC-GRIND 150/180 M14
Imperial			
115 / 125 mm, 5/8″-11 spindle	1	33500115	SFS CC-GRIND 115/125 5/8″
150 / 180 mm, 5/8″-11 spindle	1	33500180	SFS CC-GRIND 150/180 5/8″

Discontinued product

CC-GRIND ROBUST SGP STEELOX with VICTOGRAIN abrasive grain ★★★★

Grinding disc with precision-moulded, triangular high-performance **VICTO**GRAIN abrasive for steel and stainless steel (INOX) with the ultimate grinding performance and outstanding tool life. Suitable for surface grinding, chamfering, deburring and work on weld seams.

Special features:
- Thanks to the adapted geometry, the use of a special clamping flange set and a backer is not necessary.
- Significantly more ergonomic than a grinding wheel: Noise and vibrations are significantly reduced.
- Glass fibre reinforced plastic backer guarantees use that is as robust and safe as with a grinding wheel.

D [mm]	H [mm]	Max. RPM	Abrasive		Item no.	Designation
ROBUST						
115	22.23	13,300	VICTOGRAIN	10	64195116	CC-GRIND ROBUST 115 SGP STEELOX
125	22.23	12,200	VICTOGRAIN	10	64195126	CC-GRIND ROBUST 125 SGP STEELOX

CC-GRIND VIEW SGP STEELOX with VICTOGRAIN abrasive grain ★★★★

Grinding disc with unique design and the **VICTO**GRAIN high-performance abrasive grain. The viewing pane enables users to work precisely whilst monitoring the work process. Suitable for surface grinding, chamfering, deburring and work on weld seams.

Special features:
- Users can ensure an optimal contact angle based on the sparking in the middle of the viewing pane.
- Significantly more ergonomic than a grinding wheel: Noise and vibrations are significantly reduced.
- Glass fibre reinforced plastic backer guarantees use that is as robust and safe as with a grinding wheel.

D [mm]	H [mm]	Max. RPM	Abrasive		Item no.	Designation
VIEW						
125	22.23	12,200	VICTOGRAIN	10	64196126	CC-GRIND VIEW 125 SGP STEELOX

Grinding wheels
The quick way to find the perfect tool

PFERD TOOLS

Product group selection

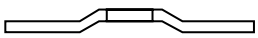
Application	Product line	Steel (STEEL)		Stainless steel (INOX)		Aluminium (ALU)	Cast material (CAST)
■ Surface grinding ■ Work on weld seams ■ Chamfering ■ Deburring ■ Fillet weld grinding ■ Work on root seams ■ Grouting	**Universal Line PSF** ★★☆☆	PSF STEEL	PSF STEELOX	PSF STEELOX			
	Performance Line SG ★★★☆	SG STEEL	CERAMIC SG COMFORT STEEL	SG INOX		SG ALU	Foundry grinding wheels
	Special Line SGP ★★★★	CERAMIC SGP STEELOX	ZIRKON SGP STEEL	WHISPER SGP STEELOX	CERAMIC SGP STEELOX	WHISPER SGP STEELOX		

Universal Line PSF ★★☆☆

PSF STEEL ★★☆☆

Grinding wheel for steel and cast iron with high grinding performance and good tool life. Suitable for surface grinding, grouting, chamfering, deburring, and for work on weld seams and fillet welds.

Special features:
- Fast work progress and high economic efficiency thanks to the high grinding performance.
- Good tool life and soft grinding characteristics, outstanding grinding results even at low contact pressure.
- Also suitable for low-power angle grinders.

D [mm]	U [mm]	H [mm]	Max. RPM	Abrasive		Item no.	Designation
Depressed-centre design E (type 27) 							
100	6.3	16	15,300	A	10	62010634	E 100-6 PSF STEEL/16,0
115	7.2	22.23	13,300	A	10	62011634	E 115-7 PSF STEEL
125	7.2	22.23	12,200	A	10	62012634	E 125-7 PSF STEEL
150	7.2	22.23	10,200	A	10	62015628	E 150-7 PSF STEEL
180	7.2	22.23	8,500	A	10	62017634	E 180-7 PSF STEEL
	8.3	22.23	8,500	A	10	62017834	E 180-8 PSF STEEL
230	7.2	22.23	6,600	A	10	62023634	E 230-7 PSF STEEL
	8.3	22.23	6,600	A	10	62023834	E 230-8 PSF STEEL
Depressed-centre design E (type 27) with X-LOCK holder **X-LOCK**							
115	7.2	22.23	13,300	A	10	62011115	E 115-7 PSF STEEL/X-LOCK
125	7.2	22.23	12,200	A	10	62011125	E 125-7 PSF STEEL/X-LOCK

PSF STEELOX ★★☆☆

Grinding wheel for steel and stainless steel (INOX) with high grinding performance and good tool life. Suitable for surface grinding, grouting, chamfering and for work on weld seams and fillet welds.

Special features:

- Fast work progress and high economic efficiency thanks to the high grinding performance.
- Good tool life and soft grinding characteristics, outstanding grinding results even at low contact pressure.
- Also suitable for low-power angle grinders.

D [mm]	U [mm]	H [mm]	Max. RPM	Abrasive		Item no.	Designation
Depressed-centre design E (type 27)							
100	6.3	16	15,300	A	10	62010720	E 100-6 PSF STEELOX/16,0
115	4.1	22.23	13,300	A	10	62011531	E 115-4,1 PSF STEELOX
	7.2	22.23	13,300	A	10	62011640	E 115-7 PSF STEELOX
125	4.1	22.23	12,200	A	10	69220531	E 125-4,1 PSF STEELOX
	7.2	22.23	12,200	A	10	62012640	E 125-7 PSF STEELOX
150	4.1	22.23	10,200	A	10	62015520	E 150-4,1 PSF STEELOX
	7.2	22.23	10,200	A	10	62015640	E 150-7 PSF STEELOX
180	4.1	22.23	8,500	A	10	62017950	E 180-4,1 PSF STEELOX
	4.6	22.23	8,500	A	10	62017520	E 180-4,6 PSF STEELOX
	7.2	22.23	8,500	A	10	62017640	E 180-7 PSF STEELOX
	8.3	22.23	8,500	A	10	62017831	E 180-8 PSF STEELOX
230	7.2	22.23	6,600	A	10	62023640	E 230-7 PSF STEELOX
	8.3	22.23	6,600	A	10	62023831	E 230-8 PSF STEELOX

SG STEEL ★★★☆

Grinding wheel for steel with high grinding performance and very good tool life. Suitable for surface grinding, grouting, chamfering and for work on weld seams and fillet welds.

Special features:
- Fast work progress and maximum economic efficiency thanks to the high grinding performance.
- Fewer tool changes due to the very good tool life.

D [mm]	U [mm]	H [mm]	Max. RPM	Abrasive		Item no.	Designation
Depressed-centre design E (type 27)							
70	6.3	10	21,800	A	10	62207626	E 70-6 SG STEEL/10.0
76	6.3	10	20,200	A	10	62208626	E 76-6 SG STEEL/10.0
100	4.1	16	15,300	A	10	62210426	E 100-4,1 SG STEEL/16,0
	6.3	16	15,300	A	10	62210626	E 100-6 SG STEEL/16,0
115	4.1	22.23	13,300	A	10	62211436	E 115-4,1 SG STEEL
	7.2	22.23	13,300	A	10	62211626	E 115-7 SG STEEL
125	4.1	22.23	12,200	A	10	62212426	E 125-4,1 SG STEEL
	7.2	22.23	12,200	A	10	62212626	E 125-7 SG STEEL
150	4.1	22.23	10,200	A	10	69220473	E 150-4,1 SG STEEL
	7.2	22.23	10,200	A	10	62215726	E 150-7 SG STEEL
180	4.1	22.23	8,500	A	10	62217426	E 180-4,1 SG STEEL
	7.2	22.23	8,500	A	10	62217626	E 180-7 SG STEEL
	8.3	22.23	8,500	A	10	62217826	E 180-8 SG STEEL
230	7.2	22.23	6,600	A	10	62223626	E 230-7 SG STEEL
	8.3	22.23	6,600	A	10	62223826	E 230-8 SG STEEL

SG INOX ★★★☆

Grinding wheel for stainless steel (INOX) with high grinding performance and very good tool life. Suitable for surface grinding, grouting, chamfering and for work on weld seams and fillet welds.

Special features:
- Soft grinding characteristics for cool grinding on stainless steel (INOX).
- Fast work progress and maximum economic efficiency thanks to the high grinding performance.
- Fewer tool changes due to the very good tool life.

D [mm]	U [mm]	H [mm]	Max. RPM	Abrasive		Item no.	Designation
Depressed-centre design E (type 27)							
115	4.1	22.23	13,300	A	10	62211423	E 115-4,1 SG INOX
	7.2	22.23	13,300	A	10	62211623	E 115-7 SG INOX
125	4.1	22.23	12,200	A	10	62212423	E 125-4,1 SG INOX

Continued on next page

D [mm]	U [mm]	H [mm]	Max. RPM	Abrasive		Item no.	Designation
125	5.2	22.23	12,200	A	10	62212523	E 125-5,2 SG INOX
	7.2	22.23	12,200	A	10	62212623	E 125-7 SG INOX
150	7.2	22.23	10,200	A	10	62222730	E 150-7 SG INOX
180	4.1	22.23	8,500	A	10	62217432	E 180-4,1 SG INOX
	7.2	22.23	8,500	A	10	62217632	E 180-7 SG INOX
	8.3	22.23	8,500	A	10	62217832	E 180-8 SG INOX
230	7.2	22.23	6,600	A	10	62223632	E 230-7 SG INOX
	8.3	22.23	6,600	A	10	62223832	E 230-8 SG INOX

SG ALU ★★★☆

Grinding wheel for aluminium and other non-ferrous metals with high grinding performance and very good tool life. Suitable for surface grinding, grouting, chamfering and for work on weld seams and fillet welds.

Special features:

- Operates without the grinding wheel clogging, even on soft, lubricating materials.
- Fast work progress and maximum economic efficiency thanks to the high grinding performance.
- Does not contain any fillers that could leave undesirable residues on the workpiece. The surface can therefore be welded immediately.

D [mm]	U [mm]	H [mm]	Max. RPM	Abrasive		Item no.	Designation
Depressed-centre design E (type 27)							
115	7.2	22.23	13,300	A/C	10	62211622	E 115-7 SG ALU
125	7.2	22.23	12,200	A/C	10	62212622	E 125-7 SG ALU
150	7.2	22.23	10,200	A/C	10	62215717	E 150-7 SG ALU
180	7.2	22.23	8,500	A/C	10	62217622	E 180-7 SG ALU
230	7.2	22.23	6,600	A/C	10	62223700	E 230-7 SG ALU

WHISPER SGP STEELOX ★★★★

With its multi-layer design, the WHISPER generates considerably less vibration and noise than conventional grinding wheels. Suitable for surface grinding and for work on weld seams and fillet welds.

Special features:
- Noise level decreased by up to 12 dB(A), which corresponds to a reduction of more than 90%.
- Tool structure enables gentle, comfortable grinding with an outstanding surface quality.
- Problem solver for scale.

D [mm]	U [mm]	H [mm]	Max. RPM	Abrasive		Item no.	Designation
Depressed-centre design E (type 27)							
115	7.4	22.23	13,300	A	10	62211848	E 115-7 SGP WHISPER STEELOX
125	7.4	22.23	12,200	A	10	62212848	E 125-7 SGP WHISPER STEELOX

ZIRKON SGP STEEL ★★★★

Zirconia alumina grinding wheel with very good grinding performance and an excellent tool life. Suitable for surface grinding, grouting, chamfering and for work on weld seams and fillet welds.

Special features:
- Very fast work progress and maximum economic efficiency thanks to the very good grinding performance.
- Fewer tool changes due to the excellent tool life.

D [mm]	U [mm]	H [mm]	Max. RPM	Abrasive		Item no.	Designation
Depressed-centre design E (type 27)							
115	7.2	22.23	13,300	Z/A	10	62211737	E 115-7 ZIRKON SGP STEEL
125	7.2	22.23	12,200	Z/A	10	62212737	E 125-7 ZIRKON SGP STEEL
150	7.2	22.23	10,200	Z/A	10	62215326	E 150-7 ZIRKON SGP STEEL
180	7.2	22.23	8,500	Z/A	10	62217737	E 180-7 ZIRKON SGP STEEL
230	7.2	22.23	6,600	Z/A	10	62223737	E 230-7 ZIRKON SGP STEEL

CERAMIC SGP STEELOX ★★★★

High-performance grinding wheel with ceramic oxide grain for quick and economical grinding. Suitable for surface grinding, grouting, chamfering and for work on weld seams and fillet welds.

Special features:
- The ultimate in aggressive performance and outstanding tool life due to self-sharpening effect of the high-performance abrasive and special bond technology.
- Lower production costs due to much faster work progress compared to conventional grinding wheels.
- Labour-saving work.

D [mm]	U [mm]	H [mm]	Max. RPM	Abrasive		Item no.	Designation
Depressed-centre design E (type 27)							
115	4.1	22.23	13,300	CO	10	62100115	E 115-4,1 CERAMIC SGP STEELOX
	7.2	22.23	13,300	CO	10	62211300	E 115-7 CERAMIC SGP STEELOX
125	4.1	22.23	12,200	CO	10	62100125	E 125-4,1 CERAMIC SGP STEELOX
	7.2	22.23	12,200	CO	10	62212300	E 125-7 CERAMIC SGP STEELOX
150	4.1	22.23	10,200	CO	10	62100150	E 150-4,1 CERAMIC SGP STEELOX
	7.2	22.23	10,200	CO	10	69901759	E 150-7 CERAMIC SGP STEELOX
180	4.1	22.23	8,500	CO	10	62100180	E 180-4,1 CERAMIC SGP STEELOX
	7.2	22.23	8,500	CO	10	62217300	E 180-7 CERAMIC SGP STEELOX
230	4.1	22.23	6,600	CO	10	62100230	E 230-4,1 CERAMIC SGP STEELOX
	7.2	22.23	6,600	CO	10	62218300	E 230-7 CERAMIC SGP STEELOX

SG CAST + ALU ★★★☆

Grinding wheel optimized for use on grey/nodular cast iron (GG/GJL, GGG/GJS), casting scale with sand contamination and metal contamination, and hard aluminium alloys with high grinding performance and very good tool life. Suitable for surface grinding, chamfering and deburring.

Special features:
- Very fast work progress and high efficiency thanks to high grinding performance and very good tool life.
- Optimized for use on compressed-air turbine and high-frequency angle grinders.

D [mm]	U [mm]	H [mm]	Max. RPM	Abrasive		Item no.	Designation
Depressed-centre design E (type 27)							
180	7.2	22.23	8,500	A/C	10	62217681	E 180-7 SG CAST+ALU
230	7.2	22.23	6,600	A/C	10	62223681	E 230-7 SG CAST+ALU

SG CAST + STONE ★★★☆

Grinding wheel optimized for use on cast iron, casting scale, stone, concrete and hard aluminium alloys with high grinding performance and very good tool life. Suitable for surface grinding, chamfering and deburring.

Special features:
- Very fast work progress and high efficiency thanks to high grinding performance and very good tool life.
- Optimized for use on compressed-air turbine and high-frequency angle grinders.

D [mm]	U [mm]	H [mm]	Max. RPM	Abrasive		Item no.	Designation
Depressed-centre design E (type 27)							
115	7.2	22.23	13,300	C	10	62911625	E 115-7 SG CAST+STONE
125	7.2	22.23	12,200	C	10	62912725	E 125-7 SG CAST+STONE
180	7.2	22.23	8,500	C	10	62917625	E 180-7 SG CAST+STONE
230	7.2	22.23	6,600	C	10	62914720	E 230-7 SG CAST+STONE

ZIRKON SG CAST + STEEL ★★★☆

Zirconia alumina grinding wheel optimized for use on grey/nodular cast iron (GG/GJL, GGG/GJS) and steel with excellent grinding performance and very good tool life. Suitable for surface grinding, grouting, chamfering, deburring and for work on weld seams and fillet welds.

Special features:
- Very fast work progress and high efficiency thanks to high grinding performance and very good tool life.
- Optimized for use on compressed-air turbine and high-frequency angle grinders.

D [mm]	U [mm]	H [mm]	Max. RPM	Abrasive		Item no.	Designation
Depressed-centre design E (type 27)							
115	7.2	22.23	13,300	Z/A	10	62211747	E 115-7 ZIRKON SG CAST+STEEL
125	7.2	22.23	12,200	Z/A	10	62212747	E 125-7 ZIRKON SG CAST+STEEL
180	7.2	22.23	8,500	Z/A	10	62217628	E 180-7 ZIRKON SG CAST+STEEL
	8.3	22.23	8,500	Z/A	10	62217837	E 180-8 ZIRKON SG CAST+STEEL
230	4.1	22.23	6,600	Z/A	10	62218310	E 230-4,1 ZIRKON SG CAST+STEEL
	5.2	22.23	6,600	Z/A	10	62223527	E 230-5,2 ZIRKON SG CAST+STEEL
	7.2	22.23	6,600	Z/A	10	62223628	E 230-7 ZIRKON SG CAST+STEEL

ZIRKON SG CAST ★★★☆

Zirconia alumina grinding wheel optimized for use on grey/nodular cast iron (GG/GJL, GGG/GJS) and casting scale with excellent grinding performance and tool life. Suitable for surface grinding, chamfering and deburring.

Special features:
- Extremely fast work progress and high efficiency thanks to excellent grinding performance and outstanding tool life.
- Optimized for use on compressed-air turbine and high-frequency angle grinders.

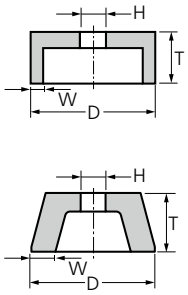
D [mm]	U [mm]	H [mm]	Max. RPM	Abrasive		Item no.	Designation
Depressed-centre design E (type 27)							
180	7.2	22.23	8,500	Z/A/C	10	62217738	E 180-7 ZIRKON SG CAST
	8.3	22.23	8,500	Z/A/C	10	62217747	E 180-8 ZIRKON SG CAST
230	7.2	22.23	6,600	Z/A/C	10	62223738	E 230-7 ZIRKON SG CAST
	8.3	22.23	6,600	Z/A/C	10	62223747	E 230-8 ZIRKON SG CAST

Cup wheels
The quick way to find the perfect tool

Product group selection

Application	Steel (STEEL)	Stainless steel (INOX)	Cast material (CAST)	Stone (STONE)
Surface grinding	SG STEELOX A 16	SG STEELOX A 16	SG CAST + STONE C 16	SG CAST + STONE C 16–80
Work on weld seams			-	-
Chamfering	SG STEELOX A 24	SG STEELOX A 24	SG CAST + STONE C 24	SG CAST + STONE C 60/80
Deburring	SG STEELOX A 36/80	SG STEELOX A 36/80	SG CAST + STONE C 30	-

Performance Line SG ★★★☆



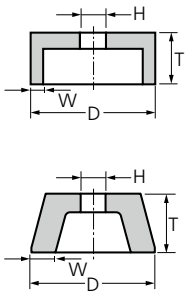
SG STEELOX ★★★☆

Cup wheel for steel and stainless steel (INOX) with high grinding performance and good tool life. Suitable for chamfering, deburring, surface grinding, and for work on weld seams.

Special features:
- High grinding performance.
- Good tool life.

D [mm]	Grit size	H [mm]	Thread	T [mm]	W [mm]	Max. RPM	Abra-sive		Item no.	Designation
Cylindrical cup wheel ETT (type 6)										
80	36	22.23	-	27	8	11,900	A	5	63417122	50 ETT 80-8 A 36 SG STEELOX
	80	22.23	-	27	8	11,900	A	5	63418702	50 ETT 80-8 A 80 SG STEELOX
Conical cup wheel ETT (type 11)										
110	16	22.23	-	55	20	8,600	A	2	63418222	50 ETT 110-20 A 16 SG STEELOX
	24	22.23	-	55	20	8,600	A	2	63418224	50 ETT 110-20 A 24 SG STEELOX
	36	22.23	-	55	20	8,600	A	2	63418226	50 ETT 110-20 A 36 SG STEELOX
125	16	-	M14	51	25	7,600	A	2	63418402	50 ETT 125-25 A 16 SG STEELOX/M14

Cup wheels
Performance Line SG ★★★☆



SG CAST + STONE ★★★☆

Cup wheel for use on cast iron, casting scale, concrete and stone with high grinding performance and good tool life. Suitable for chamfering, deburring and surface grinding.

Special features:
- High grinding performance.
- Good tool life.

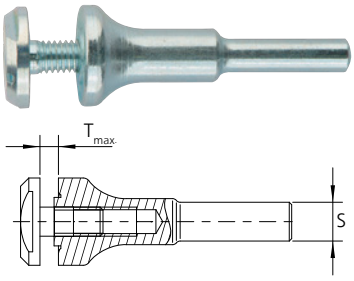
D [mm]	Grit size	H [mm]	T [mm]	W [mm]	Max. RPM	Abrasive		Item no.	Designation
Cylindrical cup wheel ETT (type 6)									
80	80	22.23	27	8	11,900	C	5	63588122	50 ETT 80-8 C 80 SG CAST+STONE
Conical cup wheel ETT (type 11)									
110	16	22.23	55	20	8,600	C	2	63518222	50 ETT 110-20 C 16 SG CAST+STONE
	24	22.23	55	20	8,600	C	2	63518224	50 ETT 110-20 C 24 SG CAST+STONE
	30	22.23	55	20	8,600	C	2	63538222	50 ETT 110-20 C 30 SG CAST+STONE
	60	22.23	55	20	8,600	C	2	63518424	50 ETT 110-20 C 60 SG CAST+STONE

SG STEEL + INOX + CAST ★★★☆

Grinding wheel for use on steel, cast steel, stainless steel (INOX) and cast iron, with high grinding performance and good tool life for work in hard-to-reach areas. Suitable for chamfering, deburring, grouting, and for work on weld seams.

Special features:
- High grinding performance.
- Good tool life.

D [mm]	T [mm]	H [mm]	Max. RPM	Abrasive		Item no.	Designation
ER (type 1) design							
50	6.2	6	19,100	A	20	65305060	ER 50-6 SG STEEL+INOX+CAST/6,0
	10.5	6	19,100	A	20	65305100	ER 50-10 SG STEEL+INOX+CAST/6,0
		10	19,100	A	20	65305101	ER 50-10 SG STEEL+INOX+CAST/10,0
70	6.2	10	13,600	A	20	65307061	ER 70-6 SG STEEL+INOX+CAST/10,0
	10.5	10	13,600	A	20	65307101	ER 70-10 SG STEEL+INOX+CAST/10,0
	15.7	10	13,600	A	20	65307151	ER 70-15 SG STEEL+INOX+CAST/10,0



Arbor for snagging wheels

Accessory for mounting snagging wheels on straight grinders. Sturdy version with maximum shank breakage resistance.

S [mm]	Suitable for hole diameter [mm]	T_{max} [mm]		Item no.	Designation
6	6	3 – 10	1	42400006	BO 6/6 3-10
8	10	6 – 20	1	42400008	BO 8/10 6-20

PFERD TOOLS

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Cut-off wheels for stationary applications

Cut-off wheels for stationary applications
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CHOPSAW cut-off wheels dia. 300–400 mm

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CHOPSAW HD cut-off wheels dia. 300–400 mm

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Laboratory cut-off wheels dia. 150–400 mm

- Performance Line SG ★★★☆ 15

Rail cut-off wheels dia. 300–400 mm

- Universal Line PSF ★★☆☆ 16
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Cut-off wheels for stationary applications

Highlights from the PFERD TOOLS range – custom-made products

What is the correct procedure for selecting a stationary cut-off wheel?

Our experienced technical advisers will start by analyzing your current set-up. They will visit you on site to see your machine, application and the wheel dimensions. PFERD TOOLS will determine the wheel thickness based on how thick the wheel needs to be for cutting. The drive output of the machine motor and the diameter of the clamping flange are also important for selecting the right stationary cut-off wheel. Based on this information and other data, we check which customized solution PFERD TOOLS can produce for you.

What are the operating conditions and which cross sections need to be cut?

In addition to the information about the machine, it is essential to know the operating conditions for the cutting work. A distinction is made between cold (up to 100°), warm (100 to 600°) and hot cutting-off (600 to over 1,000°), depending on the material temperature of the workpieces being cut. The main cutting applications are cross sections measuring 20 mm to 500 mm in a round design, and square designs from 50 mm to 250 mm (depending on the specific requirements and industry), as well as a range of profiles such as various rails. Based on the operating conditions and cross sections, you can determine which wheel diameter is required/recommended.

For medium-sized cut-off wheels the range is 400 – 600 mm (traditional applications in foundries, finishing processes and when cutting to size); for large cut-off wheels the range is 800 – 2,000 mm (applications in rolling mills and forging plants in the steel production industry).

What are the requirements for the cuts?

A good result for cold cutting-off is that the cut surface is blank (no blue or brown discolouration) and that the cut itself is perpendicular. The heat ingress into the material should also be minimal to prevent hard spots at the ends of the cut, which could cause cracks in the steel.

Ideally, the formation of burrs on the material should be minimized to negate the need for reworking. The blank cut does not play a role in warm and hot cutting-off – the aim here is to ensure a long tool life, a perpendicular cut and a reliable process.

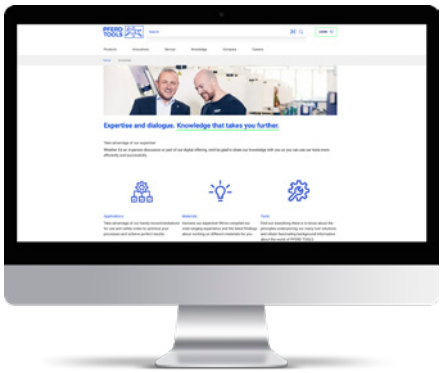
Customized solutions

Upon request, PFERD TOOLS can manufacture stationary cut-off wheels up to a diameter of 2,000 mm in the excellent PFERD TOOLS quality, specifically for your application. Please contact us for further information. Our experienced technical advisers will be pleased to assist you. Scan the QR code to access the contact form.

Cut-off wheels for stationary applications
Highlights from the PFERD TOOLS range

More expert information online

Scan the QR code to find out a wide range of tool and application knowledge relating to PFERD TOOLS' high-quality tools and their huge variety of materials.



General information

Advantages of stationary cut-off grinding

- Universal cutting process for all steels and castings, non-ferrous metal alloys, special alloys such as nickel and titanium-based alloys, as well as materials on which sawing and flame cutting are difficult or impossible.
- Due to smooth cutting surfaces and blank cuts in cold cutting-off, no post-processing is required.
- Short cutting times regardless of the material quality.
- Significantly lower burr formation with hot cutting-off than with hot sawing.
- Lower noise levels than with hot sawing.
  Example:
  Hot cutting-off: 85 to 95 dBA
  Hot sawing: 105 to 110 dBA
- Consistent cutting quality over the entire life of the cut-off wheel due to its continuous self-sharpening qualities.
- Enables cutting of already cooled rolled or forged parts in hot cut lines.

Applications

Cut-off grinding is one of the most powerful and cost-effective cutting processes and is used in the following areas:

- Rolling mills
- Foundries
- Mechanical engineering
- Steel construction
- Maintenance of rails
- Forging plants and their finishing processes
- Laboratories

Safety notes

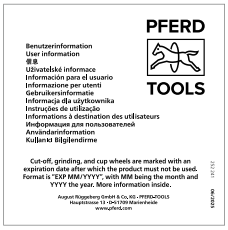
PFERD TOOLS is a founding member of oSa

Together with other renowned manufacturers, PFERD TOOLS has voluntarily undertaken to produce quality tools conforming to the most exacting safety standards. Member companies of oSa (the Organization for the Safety of Abrasives) are committed to continuous product safety and quality monitoring. Products from PFERD TOOLS carry the oSa mark. Scan the QR code for further information.

Safety standard:

- PFERD TOOLS cut-off wheels conform to the highest safety requirements and are marked according to EN 12413 for grinding tools made of bonded abrasive.

Cut-off wheels for stationary applications
Safety notes



German Abrasives Association (VDS)

Please observe the safety notes of the German Abrasives Association (VDS). Further information can be found at:
www.pferd.com

User information

Please observe the user information provided with all products on the safe use of stationary cut-off wheels as well as the user information for the grinding machine used.

FEPA

The FEPA safety recommendations can be downloaded at **www.pferd.com**.

Proper clamping of cut-off wheels

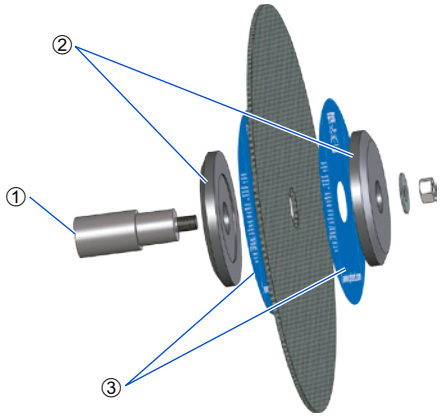
The correct clamping of the cut-off wheel is a prerequisite for optimum performance and is essential to ensure user safety. The adjacent illustration shows the right way to do it:

① Machine spindle with high concentricity.

② Equally sized flanges.

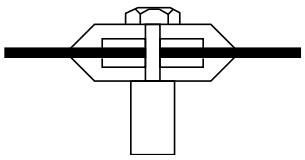
③ Intermediate paper layers, if required for secure clamping and safe use.

Our recommendations:
- After every second wheel change, change the intermediate paper layers.
- As from a wheel diameter > 400 mm, always use intermediate paper layers.

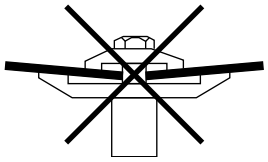


Safety notes

The safe use of products from PFERD TOOLS depends largely on proper clamping systems. Both flanges between which a grinding tool is mounted must have the same outer diameter and same support area (according to ENÂ 13218, ANSI B7.1).



Correct



Incorrect

Transport and storage

Transport and storage

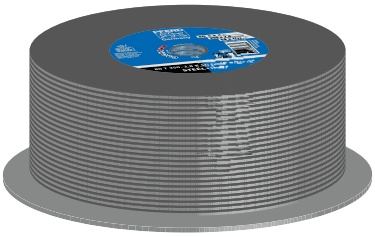
To avoid damage to the cut-off wheels through improper transport or adverse environmental influences during storage, e.g. UV radiation, temperature or humidity, please observe the following advice:
- As far as possible, transport and store cut-off wheels in their original packaging lying on a flat surface, e.g. on a shelf or vertically in racks.
- Avoid bending the tools.
- Ensure that the cut-off wheels are stored in dry, frost-free rooms with consistent temperatures.
- Use supplies in the order of their arrival.

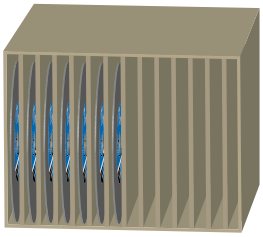
Advice on the storage of conical wheels (CT):

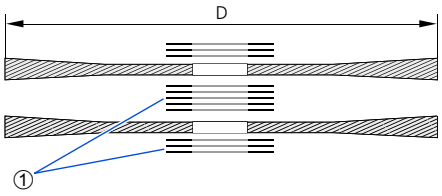
Conical cut-off wheels must be stacked with intermediate paper layers, so that the tapered area is supported and bending of the cut-off wheels is avoided.

PFERD TOOLS supplies conical cut-off wheels with intermediate paper layers included.

Cut-off wheels for stationary applications
Transport and storage







① Intermediate paper layers

Recommendation

18°C 22°C Room temperature: 18-22°C	Relative humidity: 45-65%	No direct sunlight

Product lines and colour coding

Universal Line PSF ★★☆☆

The introductory range Universal Line PSF includes **robust tools** for processing the **most common materials**. Universal Line PSF tools achieve **good results** with **high economic efficiency**.

Performance Line SG ★★★☆

The broad Performance Line SG range offers **a high-performance tool solution for every application and every material**. Performance Line SG tools achieve **optimum results** with **maximum economic efficiency.**

Special Line SGP ★★★★

Special Line SGP tools are specially developed for **specific tasks** and offer the user **key advantages over conventional products.** Furthermore, the Special Line SGP includes tools that offer **ultimate economic efficiency** thanks to their particularly high performance during use.

Cut-off wheels for stationary applications
The quick way to find the perfect tool

Product labels

① oSa – Organization for the Safety of Abrasives
As a founder member of oSa, PFERD TOOLS has voluntarily undertaken to produce quality tools conforming to the most exacting safety standards. Member companies of oSa are committed to continuous product safety and quality monitoring.

② Safety information
Handling grinding tools is dangerous. Observe all safety rules and regulations.

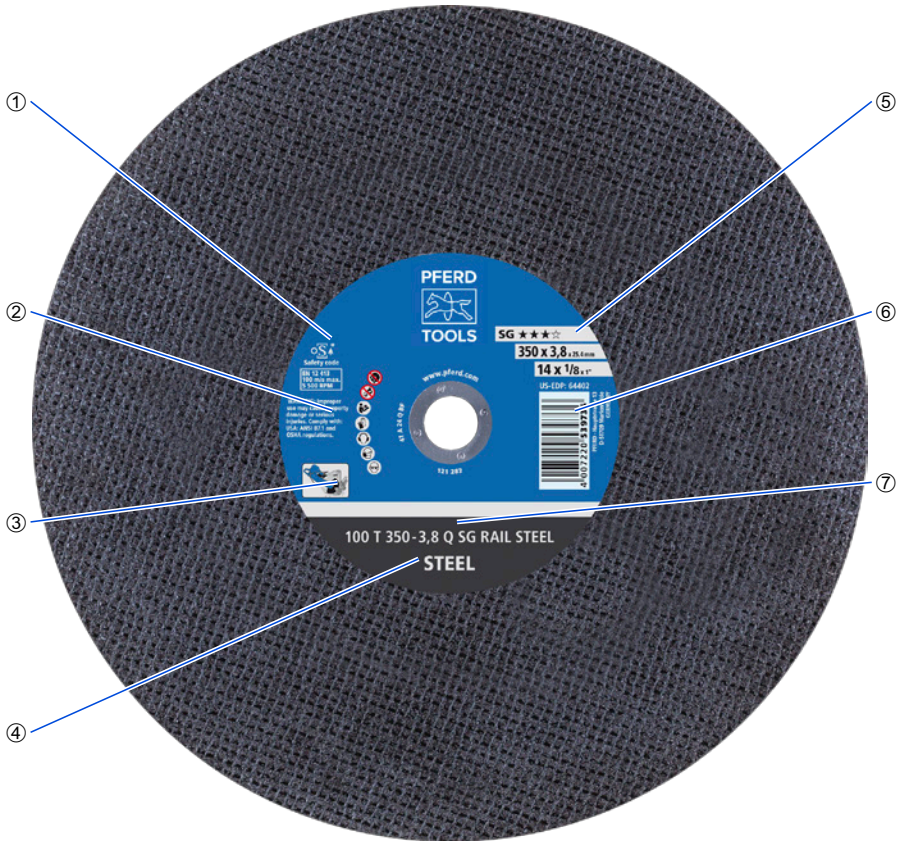
③ Advice on tool drive
The pictogram shows on which drive the tool can be used.

④ Material information
The bottom section of every label indicates the material or materials for which the tool is suitable.

⑤ Information bar
Here you will find the product line and the dimensions.

⑥ EAN (European Article Number)

⑦ Hardness grade
The hardness denotes the strength with which the abrasive grit is held by the bond within the grinding tool. The hardness is indicated with a letter:
K, H = very soft / L, N = soft /
O, P, Q = medium-hard / R, S = hard /
T = very hard

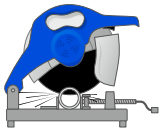
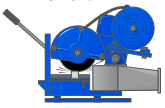
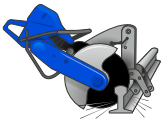
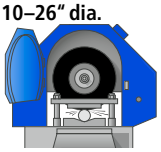
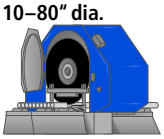


Cut-off wheels for stationary applications

The quick way to find the perfect tool

PFERD TOOLS

Product group selection

Tool drive	Application	Product line	Steel (STEEL)		Stainless steel (INOX)	Cast material (CAST)	Stone (STONE)
CHOPSAW dia. 300–400 mm 12–16" dia. < 3 KW 	Cutting of solid material, profiles and pipes	**Universal Line PSF** ★★☆☆	PSF CHOP STEEL Hardness K + L	PSF CHOP STEELOX Hardness K	PSF CHOP STEELOX Hardness K		
		Performance Line SG ★★★☆	SG CHOP STEEL Hardness K + R	SG CHOP STEELOX Hardness K + N	SG CHOP STEELOX Hardness K + N		
CHOPSAW HD dia. 300–400 mm 12–16" dia. 	Cutting of solid material, profiles and pipes	**Universal Line PSF** ★★☆☆	PSF CHOP HD STEEL Hardness K				
		Performance Line SG ★★★☆	SG CHOP HD STEEL Hardness L + O	SG CHOP HD STEELOX Hardness L	SG CHOP HD STEELOX Hardness L	SG CHOP HD CAST + STONE Hardness L + O	SG CHOP HD CAST + STONE Hardness L + O
LABOR dia. 150–400 mm 6–16" dia.	Producing precision cuts, cutting of laboratory samples	**Performance Line SG** ★★★☆	SG LAB STEEL Hardness H	SG LAB HD STEELOX Hardness H, R + T	SG LAB HD STEELOX Hardness H,R + T		
RAIL dia. 300–400 mm 12–16" dia. 	Cutting of rails	**Universal Line PSF** ★★☆☆	PSF RAIL STEEL Hardness Q				
		Performance Line SG ★★★☆	SG RAIL STEEL Hardness Q + R				
HEAVY DUTY dia. 250–600 mm 10–26" dia. 	Cutting of solid material, profiles and pipes	**Special Line SGP** ★★★★	SGP HD STEEL Hardness L, N, Q + S	ZIRKON SGP HD CAST + STEEL Hardness P, R + T		ZIRKON SGP HD CAST + STEEL Hardness P, R + T	
Products made to order up to dia. 2,000 mm 10–80" dia. 	On request, we can produce stationary cut-off wheels in premium PFERD TOOLS quality up to a diameter of 2,000 mm, tailor-made to meet the requirements of your special application. Please contact us for further information. Our experienced technical advisers will be pleased to assist you.						

With middle fabric for aggressive cutting with minimized burr formation

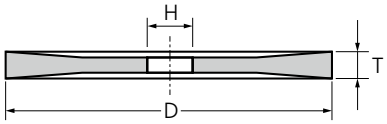
With two outer fabrics for high lateral stability

7

Cut-off wheels for stationary applications
Custom-made products

PFERD TOOLS

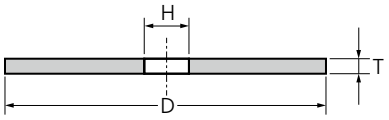
Dimensions and designs to meet customer requirements



CT – Conical type

Particularly suitable for use in the steel industry.

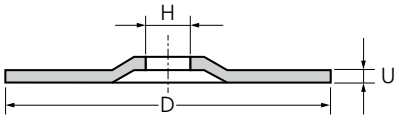
Advantages:
- Less lateral friction.
- Particularly advantageous for deep cuts and traverse cutting.



T – Flat type

Suitable for use in steel and plant construction, in the steel industry and in foundries.

Advantages:
- Suitable for universal use.



PT – Depressed-centre type

Particularly suitable for use in foundries.

Advantages:
- Clamping flange does not protrude beyond the cut-off wheel.
- Flush cutting of risers from castings is possible.
- In general, no post-processing required.

Outer dia. D [mm]	Centre hole diameter H [mm]
2,000	80/100/127/152.4/200/ 203.3/230/280
1,840	80/100/127/152.4/200/ 203.3/230/280
1,600	80/100/127/152.4/200/ 203.3/230/280
1,500	80/100/127/152.4/200/ 203.3/230/280
1,380	80/100/127/152.4/200/ 203.3/230/280
1,250	80/100/127/152.4/200/ 203.3/230/250/280
1,000	80/100/127/152.4/200/ 203.3/230
800	80/100/127/152.4/200/ 203.3/230

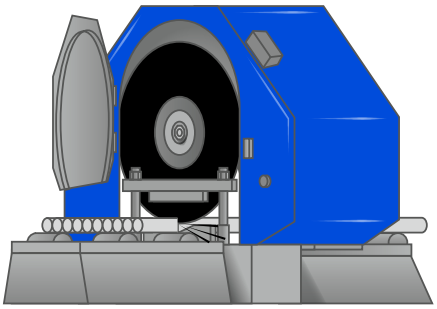
Outer dia. D [mm]	Centre hole diameter H [mm]
800	80/100/127/152.4/200/ 203.3/230
700	80/100/127/152.4/200/ 203.3/230
660	25.4/40/60/76.2/80/100
600	25.4/40/60/76.2/80/100
500	25.4/40/60/76.2/80/100
450	25.4/32/40/60/80
400	25.4/32/40/60/80
350	25.4/32/40
300	25.4/32/40
250	25.4/30/32

Outer dia. D [mm]	Centre hole diameter H [mm]
800	80/100
700	80/100
600	60/76.2/80/100
500	40/60/76.2/80/100
400	40/60/80

Other designs and centre hole diameters are available on request. Please contact us for further information.

Cut-off wheels for stationary applications
Custom-made products

METALCORE cut-off wheel



METALCORE type

The steel-core cut-off wheel developed by PFERD TOOLS is characterized, as compared to the conventional type, by its solid steel body constructed in layers which does not contain any abrasive.

The tool structure has the following advantages:

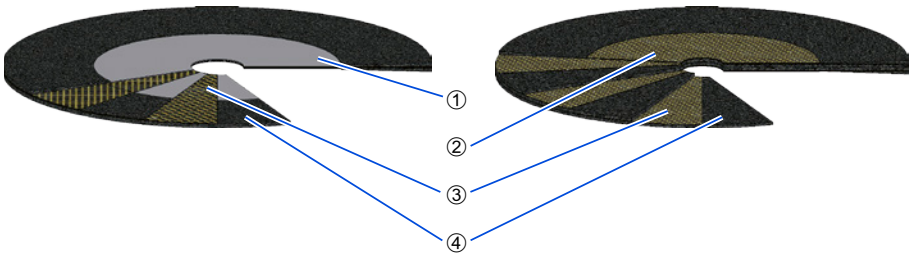
- Reduced cutting costs due to the use of smaller clamping flanges.
- Longer tool life.
- Reduced cut-off wheel width for chop stroke cut due to increased lateral stability.
- No cost for the disposal of the old wheel.

Conventional type

For stationary cut-off grinding, resinoid-bonded, fibre-reinforced cut-off wheels are used, which are essentially composed of four components: abrasive, bond, fabric layers/ flange fabric and active grinding fillers.

Structure of cut-off wheels

① Steel core
② Flange fabric
③ Fabric layers
④ Bonded abrasives



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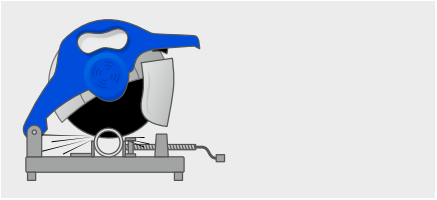
CHOPSAW cut-off wheels dia. 300–400 mm
Universal Line PSF ★★☆☆

PSF CHOP STEEL ★★☆☆

Tool which cuts very easily, with a middle fabric for steel. For aggressive cutting with minimal burr formation. Suitable for cutting solid material, profiles and pipes. Suitable tool drives: CHOPSAW up to 3 kW.



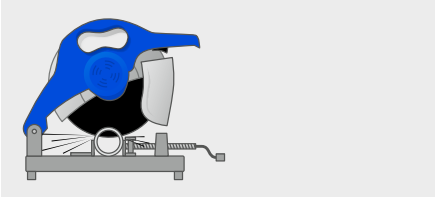
- Fast work progress thanks to good cutting performance.
- Cutting with minimal burr formation due to less lateral friction.

Special features:
- High economic efficiency due to long tool life.

Maximum operating speed [m/s]	D [mm]	T [mm]	H [mm]	Hardness grade	Max. RPM	Abrasive		Item no.	Designation
Flat design T (type 41)									
80	300	2.8	25.4	K (very soft)	5,100	A	20	66323074	80 T 300-2,8 K PSF CHOP STEEL/25,4
	350	2.8	25.4	K (very soft)	4,400	A	10	66323574	80 T 350-2,8 K PSF CHOP STEEL/25,4
	400	3.8	25.4	K (very soft)	3,800	A	10	66324095	80 T 400-3,8 K PSF CHOP STEEL/25,4

PSF CHOP STEELOX ★★☆☆

Tool which cuts very easily, with a middle fabric for steel and stainless steel (INOX). For aggressive cutting with minimal burr formation. Suitable for cutting solid material, profiles and pipes. Suitable tool drives: CHOPSAW up to 3 kW.



- Fast work progress thanks to high cutting performance.
- Cutting with minimal burr formation due to less lateral friction.

Special features:
- High economic efficiency due to long tool life.

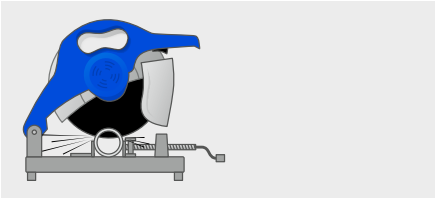
Maximum operating speed [m/s]	D [mm]	T [mm]	H [mm]	Hardness grade	Max. RPM	Abrasive		Item no.	Designation
Flat design T (type 41)									
80	300	2.8	25.4	K (very soft)	5,100	A	20	66323075	80 T 300-2,8 K PSF CHOP STEELOX/25,4
	350	2.8	25.4	K (very soft)	4,400	A	10	66323575	80 T 350-2,8 K PSF CHOP STEELOX/25,4
	400	3.8	25.4	K (very soft)	3,800	A	10	66324096	80 T 400-3,8 K PSF CHOP STEELOX/25,4

CHOPSAW cut-off wheels dia. 300–400 mm
Performance Line SG ★★★☆

PFERD TOOLS

SG CHOP STEEL ★★★☆

Tool which cuts very easily, with a middle fabric for steel. For aggressive cutting with minimal burr formation. Suitable for cutting solid material, profiles and pipes. Suitable tool drives: CHOPSAW up to 3 kW.



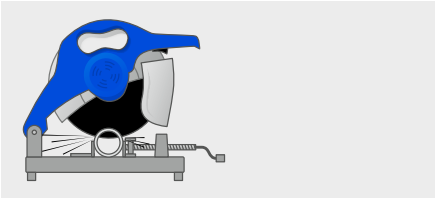
- The fastest work progress thanks to very high cutting performance.
- Cutting with minimal burr formation due to less lateral friction.

Special features:
- Maximum economic efficiency due to very long tool life.

Maximum operating speed [m/s]	D [mm]	T [mm]	H [mm]	Hardness grade	Max. RPM	Abrasive		Item no.	Designation
Flat design T (type 41)									
80	300	2.8	25.4	K (very soft)	5,100	A	20	66323070	80 T 300-2,8 K SG CHOP STEEL/25,4
			32	K (very soft)	5,100	A	20	66323071	80 T 300-2,8 K SG CHOP STEEL/32,0
	350	2.8	25.4	K (very soft)	4,400	A	10	66323570	80 T 350-2,8 K SG CHOP STEEL/25,4
			32	K (very soft)	4,400	A	10	66323571	80 T 350-2,8 K SG CHOP STEEL/32,0
	400	3.8	25.4	K (very soft)	3,800	A	10	66324093	80 T 400-3,8 K SG CHOP STEEL/25,4
			32	K (very soft)	3,800	A	10	66324094	80 T 400-3,8 K SG CHOP STEEL/32,0

SG CHOP STEELOX ★★★☆

Tool which cuts very easily, with a middle fabric for steel and stainless steel (INOX). For aggressive cutting with minimal burr formation. Suitable for cutting solid material, profiles and pipes. Suitable tool drives: CHOPSAW up to 3 kW.



- The fastest work progress thanks to very high cutting performance.
- Cutting with minimal burr formation due to less lateral friction.

Special features:
- Maximum economic efficiency due to very long tool life.

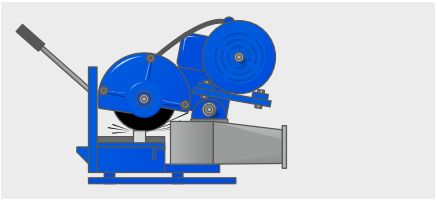
Maximum operating speed [m/s]	D [mm]	T [mm]	H [mm]	Hardness grade	Max. RPM	Abrasive		Item no.	Designation
Flat design T (type 41)									
80	300	2.8	25.4	K (very soft)	5,100	A	20	66323052	80 T 300-2,8 K SG CHOP STEELOX/25,4
	350	2.8	25.4	K (very soft)	4,400	A	10	66323572	80 T 350-2,8 K SG CHOP STEELOX/25,4
	400	2.8	25.4	K (very soft)	3,800	A	10	66324091	80 T 400-2,8 K SG CHOP STEELOX/25,4

CHOPSAW HD cut-off wheels dia. 300–400 mm

Performance Line SG ★★★☆

SG CHOP HD STEEL ★★★☆

Tool with two outer fabrics for steel. For cutting work that requires high stability. Suitable for cutting solid material, profiles and pipes. Suitable tool drives: CHOPSAW HD.



- Maximum economic efficiency due to very long tool life.
- For demanding cutting work.

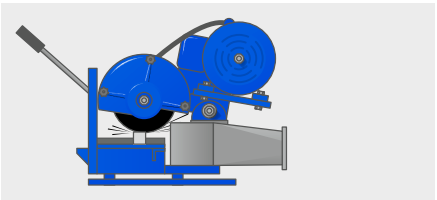
Special features:

- High lateral stability thanks to reinforcing outer fabric.

Maximum operating speed [m/s]	D [mm]	T [mm]	H [mm]	Hardness grade	Max. RPM	Abrasive		Item no.	Designation
Flat design T (type 41)									
80	300	3	25.4	L (soft)	5,100	A	20	66323080	80 T 300-3,0 L SG CHOP HD STEEL/25,4
			32	L (soft)	5,100	A	20	66323081	80 T 300-3,0 L SG CHOP HD STEEL/32,0
		3.4	25.4	O (medium-hard)	5,100	A	20	66323013	80 T 300-3,4 O SG CHOP HD STEEL/25,4
	350	3	25.4	L (soft)	4,400	A	10	66323580	80 T 350-3,0 L SG CHOP HD STEEL/25,4
			32	L (soft)	4,400	A	10	66323581	80 T 350-3,0 L SG CHOP HD STEEL/32,0
		3.8	25.4	O (medium-hard)	4,400	A	10	66323513	80 T 350-3,8 O SG CHOP HD STEEL/25,4
	400	4	25.4	L (soft)	3,800	A	10	66324080	80 T 400-4,0 L SG CHOP HD STEEL/25,4
			32	L (soft)	3,800	A	10	66324081	80 T 400-4,0 L SG CHOP HD STEEL/32,0
100	350	4.2	25.4	O (medium-hard)	5,500	A	10	66323613	100 T 350-4,2 O SG CHOP HD STEEL/25,4

SG CHOP HD STEELOX ★★★☆

Tool which cuts easily, with two outer fabrics for steel and stainless steel (INOX). For cutting work that requires high stability. Suitable for cutting solid material, profiles and pipes. Suitable tool drives: CHOPSAW HD.



- Maximum economic efficiency due to very long tool life.
- For demanding cutting work.

Special features:

- High lateral stability thanks to reinforcing outer fabric.

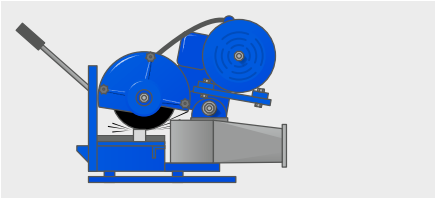
Maximum operating speed [m/s]	D [mm]	T [mm]	H [mm]	Hardness grade	Max. RPM	Abrasive		Item no.	Designation
Flat design T (type 41)									
80	300	3	25.4	L (soft)	5,100	A	20	66323082	80 T 300-3,0 L SG CHOP HD STEELOX/25,4
	350	3	25.4	L (soft)	4,400	A	10	66323582	80 T 350-3,0 L SG CHOP HD STEELOX/25,4
	400	4	25.4	L (soft)	3,800	A	10	66324082	80 T 400-4,0 L SG CHOP HD STEELOX/25,4

CHOPSAW HD cut-off wheels dia. 300–400 mm

Performance Line SG ★★★☆

SG CHOP HD CAST + STONE ★★★☆

Tool which cuts easily, with two outer fabrics for use on cast iron, stone, plastics, aluminium and other non-ferrous metals. Suitable for cutting solid material, profiles and pipes. Suitable tool drives: CHOPSAW HD.



- Maximum economic efficiency due to very long tool life.
- For demanding cutting work.

Special features:

- High lateral stability thanks to reinforcing outer fabric.

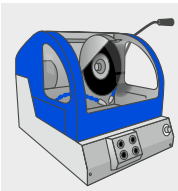
Maximum operating speed, max. [m/s]	D [mm]	T [mm]	H [mm]	Hardness grade	Max. RPM	Abrasive		Item no.	Designation
Flat design T (type 41)									
80	350	3.4	25.4	L (soft)	4,400	C	10	66623583	80 T 350-3,4 L SG CHOP HD CAST+STONE/25,4
	400	4	25.4	L (soft)	3,800	C	10	66624083	80 T 400-4,0 L SG CHOP HD CAST+STONE/25,4

7

Laboratory cut-off wheels dia. 150–400 mm
Performance Line SG ★★★☆

SG LAB STEEL ★★★☆

Tool which cuts very easily, with a middle fabric for steel and cast iron. Suitable for producing precision cuts, fast cutting of lab samples, solid material, profiles and pipes. Suitable tool drives: Lab cutting machine.



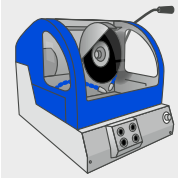
- Safe cutting work thanks to the highest possible cutting quality.
- High stability thanks to reinforcing centre fabric.

Special features:
- Special tool for metallographic sampling thanks to aggressive abrasive.

Maximum operating speed [m/s]	D [mm]	T [mm]	H [mm]	Hardness grade	Max. RPM	Abrasive		Item no.	Designation
Flat design T (type 41)									
80	250	2	32	H (very soft)	6,100	A	20	66300060	80 T 250-2,0 H SG LAB STEEL/32,0
	300	2	32	H (very soft)	5,100	A	20	66300100	80 T 300-2,0 H SG LAB STEEL/32,0
	350	2.5	32	H (very soft)	4,400	A	10	66300130	80 T 350-2,5 H SG LAB STEEL/32,0
	400	3	32	H (very soft)	3,800	A	10	66300150	80 T 400-3,0 H SG LAB STEEL/32,0

SG LAB HD STEELOX ★★★☆

Tool which cuts very easily, with two outer fabrics for steel and stainless steel (INOX). Suitable for producing precision cuts, fast cutting of lab samples, solid material, profiles and pipes. Suitable tool drives: Lab cutting machine.



- Safe cutting work thanks to the highest possible cutting quality.
- Very sturdy thanks to reinforcing outer fabric.

Special features:
- Special tool for metallographic sampling thanks to aggressive abrasive.

Maximum operating speed [m/s]	D [mm]	T [mm]	H [mm]	Hardness grade	Max. RPM	Abrasive		Item no.	Designation
Flat design T (type 41)									
80	150	1	22.23	H (very soft)	10,200	A	25	66300010	80 T 150-1,0 H SG LAB HD STEELOX/22,23
	230	1.5	22.23	H (very soft)	6,600	A	25	*66300030*	80 T 230-1,5 H SG LAB HD STEELOX/22,23

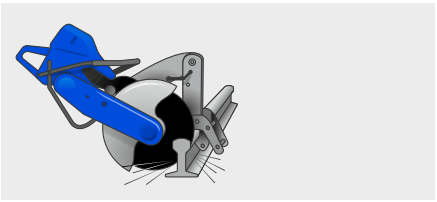
7

Discontinued product

Rail cut-off wheels dia. 300–400 mm
Universal Line PSF ★★☆☆

PSF RAIL STEEL ★★☆☆

Tool for fast and economic cutting of rails. Suitable tool drives: RAIL cutting machine.



- High economic efficiency due to optimal tool life.

Special features:
- Fast working progress thanks to aggressive abrasive.
- Safe cutting work thanks to the highest possible cutting quality.

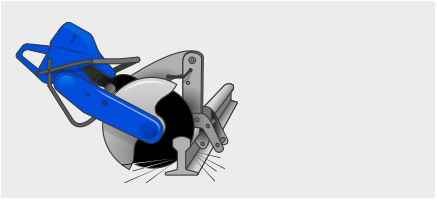
Maximum operating speed [m/s]	D [mm]	T [mm]	H [mm]	Hardness grade	Max. RPM	Abrasive		Item no.	Designation
Flat design T (type 41)									
100	300	3.8	22.23	Q (medium-hard)	6,400	A	20	73001231	100T 300-3.8 Q PSF RAIL STEEL/22.23
	350	4	22.23	Q (medium-hard)	5,500	A	10	73001322	100 T 350-4,0 Q PSF RAIL STEEL/22,23
			25.4	Q (medium-hard)	5,500	A	10	73001230	100T 350-4.0 Q PSF RAIL STEEL/25.4
	400	4	25.4	Q (medium-hard)	4,800	A	10	73001310	100 T 400-4,0 Q PSF RAIL STEEL/25,4

New item

Rail cut-off wheels dia. 300–400 mm
Performance Line SG ★★★☆

SG RAIL STEEL ★★★☆

Tool for fast and economic cutting of rails. Suitable tool drives: RAIL cutting machine.



- High economic efficiency due to optimal tool life.

Special features:
- The fastest work progress thanks to aggressive abrasive.
- Safe cutting work thanks to the highest possible cutting quality.

Maximum operating speed [m/s]	D [mm]	T [mm]	H [mm]	Hardness grade	Max. RPM	Abrasive		Item no.	Designation
Flat design T (type 41)									
100	300	3.8	22.23	Q (medium-hard)	6,400	A	20	*66323162*	100 T 300-3,8 Q SG RAIL STEEL/22,23
			25.4	Q (medium-hard)	6,400	A	20	66323163	100 T 300-3,8 Q SG RAIL STEEL/25,4
	350	3.8	22.23	Q (medium-hard)	5,500	A	10	66323662	100 T 350-3,8 Q SG RAIL STEEL/22,23
			25.4	Q (medium-hard)	5,500	A	10	66323663	100 T 350-3,8 Q SG RAIL STEEL/25,4
		4	22.23	R (hard)	5,500	A	10	66323664	100 T 350-4,0 R SG RAIL STEEL/22,23
			25.4	R (hard)	5,500	A	10	66323665	100 T 350-4,0 R SG RAIL STEEL/25,4
	400	4.2	25.4	Q (medium-hard)	4,800	A	10	66324163	100 T 400-4,2 Q SG RAIL STEEL/25,4

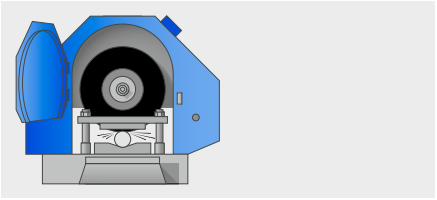
New item
Discontinued product

HEAVY DUTY cut-off wheels dia. 250–600 mm

Special Line SGP ★★★★

SGP HD STEEL ★★★★

Tool for the most demanding cutting work on steel. Particularly well suited to use in finishing work and to cutting solid material, profiles, pipes and large cross-sections. Suitable tool drives: HEAVY DUTY cutting machine.



- Fast work progress thanks to excellent cutting characteristics.

Special features:

- Ultimate economic efficiency due to optimum tool life.

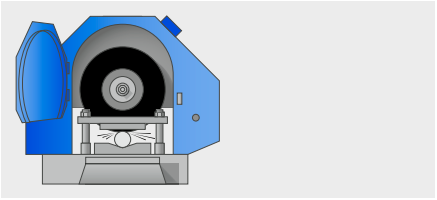
Maximum operating speed [m/s]	D [mm]	T [mm]	H [mm]	Hardness grade	Max. RPM	Abrasive		Item no.	Designation
Flat design T (type 41)									
80	300	3.4	25.4	Q (medium-hard)	5,100	A	20	66323025	80 T 300-3,4 Q SGP HD STEEL/25,4
	350	3.8	25.4	Q (medium-hard)	4,400	A	10	66323525	80 T 350-3,8 Q SGP HD STEEL/25,4
	400	4.2	40	Q (medium-hard)	3,800	A	10	66324040	80 T 400-4,2 Q SGP HD STEEL/40,0
	500	5.5	40	Q (medium-hard)	3,100	A	5	66325040	80 T 500-5,5 Q SGP HD STEEL/40,0
100	250	1.8	30	Q (medium-hard)	7,600	A	20	66322130	100 T 250-1,8 Q SGP HD STEEL/30,0
			32	Q (medium-hard)	7,600	A	20	66322132	100 T 250-1,8 Q SGP HD STEEL/32,0
	300	3	40	N (soft)	6,400	A	20	66323195	100 T 300-3,0 N SGP HD STEEL/40,0
		3.6	40	Q (medium-hard)	6,400	A	20	66323140	100 T 300-3,6 Q SGP HD STEEL/40,0
	350	3.8	40	N (soft)	5,500	A	10	66323695	100 T 350-3,8 N SGP HD STEEL/40,0
		4	25.4	Q (medium-hard)	5,500	A	10	66323625	100 T 350-4,0 Q SGP HD STEEL/25,4
	400	4.3	40	N (soft)	4,800	A	10	66324195	100 T 400-4,3 N SGP HD STEEL/40,0
		4.6	40	S (hard)	4,800	A	10	66324140	100 T 400-4,6 S SGP HD STEEL/40,0
		4.8	40	Q (medium-hard)	4,800	A	10	66324205	100 T 400-4,8 Q SGP HD STEEL/40,0
	500	5.8	40	N (soft)	3,800	A	5	66325205	100 T 500-5,8 N SGP HD STEEL/40,0
				Q (medium-hard)	3,800	A	5	66325140	100 T 500-5,8 Q SGP HD STEEL/40,0
				S (hard)	3,800	A	5	66325225	100 T 500-5,8 S SGP HD STEEL/40,0
		6.3	40	L (soft)	3,800	A	5	66325050	100 T 500-6,3 L SGP HD STEEL/40,0
	600	7.6	60	N (soft)	3,200	A	5	66397706	100 T 600-7,6 N SGP HD STEEL/60,0
				S (hard)	3,200	A	5	66397707	100 T 600-7,6 S SGP HD STEEL/60,0

HEAVY DUTY cut-off wheels dia. 250–600 mm

Special Line SGP ★★★★

ZIRKON SGP HD CAST + STEEL ★★★★

For the most demanding cutting work on cast iron and steel. Suitable for cutting risers, sprues, solid material, profiles, pipes and large cross-sections. Developed for use in foundries. Suitable tool drives: HEAVY DUTY cutting machine.



- Fast work progress thanks to excellent cutting characteristics.
- Products made to order available on request.

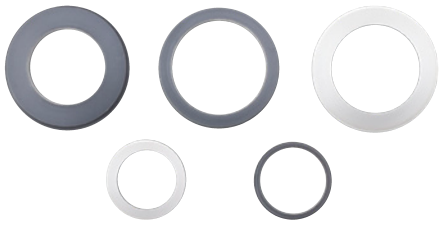
Special features:

- Ultimate economic efficiency due to optimum tool life.

Maximum operating speed [m/s]	D [mm]	T [mm]	H [mm]	Hardness grade	Max. RPM	Abrasive		Item no.	Designation
Flat design T (type 41)									
100	400	4.8	40	T (very hard)	4,800	Z/A	10	66323235	100 T 400-4,8 ZIRKON T SGP HD CAST+STEEL/40,0
	500	5.6	40	T (very hard)	3,800	Z/A	5	66325065	100 T 500-5,6 ZIRKON T SGP HD CAST+STEEL/40,0
	600	7.8	60	P (medium-hard)	3,200	Z/A	5	66397708	100 T 600-7,8 ZIRKON P SGP HD CAST+STEEL/60,0
		8	60	R (hard)	3,200	Z/A	5	66397196	100 T 600-8,0 ZIRKON R SGP HD CAST+STEEL/60,0

Reducing rings for stationary cut-off wheels

Reducing rings for stationary cut-off wheels



Reducing rings for stationary cut-off wheels

Reducing rings enable secure adjustment of the standard centre hole to a reduced centre hole dimension.

Special features:

- Flexible adjustment to the prerequisites of the drive system.
- With stop collar, to prevent the ring from pushing through the centre hole of the cut-off wheel.

External diameter [mm]	Inner diameter [mm]	Width [mm]		Item no.	Designation
25.4	20	3	5	69900173	RDR 25,4-20-3,0
	22.23	3	5	69900174	RDR 25,4-22,2-3,0
40	25.4	3	5	69900172	RDR 40-25,4-3,0
		4.5	5	69900009	RDR 40-25,4-4,5
	30	3	5	69900171	RDR 40-30-3,0
		4.5	5	69900007	RDR 40-30-4,5
	32	3	5	69900170	RDR 40-32-3,0
		4.5	5	69900006	RDR 40-32-4,5
60	40	6.5	5	69900175	RDR 60-40-6,5

PFERD TOOLS

Industrial power brushes

Industrial power brushes
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PFERD TOOLS

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Threaded bevel brushes

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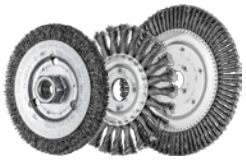

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Shank-mounted end brushes

- crimped 37
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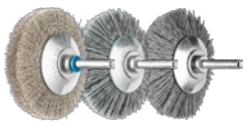
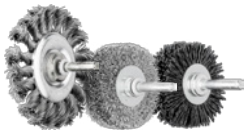
Shank-mounted cup brushes

- crimped 42



Shank-mounted bevel brushes

- crimped 44



Shank-mounted wheel brushes

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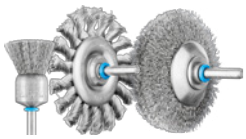

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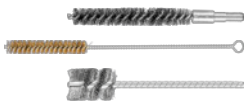

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Industrial power brushes
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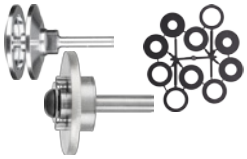

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Industrial power brushes
Highlights from the PFERD TOOLS range

Composite brushes for stationary applications

PFERD TOOLS offers a comprehensive range of high-quality industrial power brushes, specially designed for stationary applications on robots and CNC machines.

Composite brushes from PFERD TOOLS are specially designed for the demands of automated workpiece machining. Compared to conventional metal constructions, they feature an extremely high filament density and a very even distribution of the filament material. This guarantees a long tool life and extremely smooth running.

All of the industrial power brushes made by PFERD TOOLS can also be used on robots.

Industrial power brushes in stationary applications are most commonly used for deburring and rounding edges, processing holes and female threads, work on surfaces and cleaning.

Scan the QR code to find out more about composite brushes for stationary applications.

Advantages:
- Long tool life and aggressive brushing effect due to a very high filament density.
- High flexibility due to their ability to adapt to contours. Robots that are used with industrial power brushes are easier to program and can often be used without compliance.
- Very reliable process with extremely smooth operation due to even distribution of the filament material.

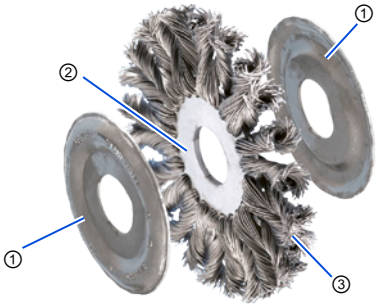
INOX-TOTAL

In addition to brushes with a stainless steel filament, PFERD TOOLS also offers brushes for work on stainless steel (INOX) with the INOX-TOTAL type. They are particularly well-suited to use in extremely critical environments.

Structure of a wheel brush with arbor hole INOX-TOTAL:
① Side plates made of stainless steel (INOX)
② Centre disc made of stainless steel (INOX)
③ Filament made of stainless steel (INOX)

Scan the QR code to find out more about INOX-TOTAL brushes.

Advantages:
- Maximum protection against corrosion as all components are produced from stainless steel (INOX) in quality 1.4310/1.4301 (V2A).



Brushes with cord wire filament

Aggressive yet flexible – industrial power brushes with cord wire offer the perfect combination of aggressive brushing effect and flexibility. With this special wire construction, multiple wavy wire filaments are stranded together. As a result, they work effectively and aggressively like a knotted brush and, at the same time, flexibly like a wavy brush.

Scan the QR code to find out more about brushes with cord wire.

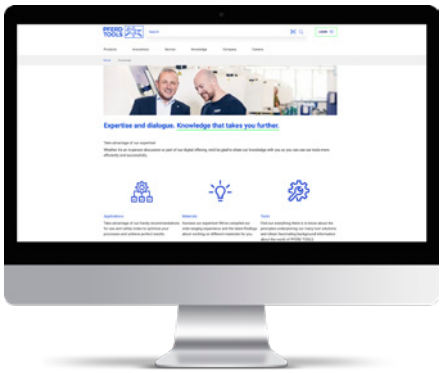
Advantages:
- More aggressive brushing effect compared to conventional crimped brushes due to the special wire construction which provides the wires with additional stability.
- Perfect for complex geometries and hard-to-reach areas as the many small wires make the cord wire highly flexible.

- Ideally suited to demanding tasks due to the durability and resilience of the individual wires.

Industrial power brushes
Highlights from the PFERD TOOLS range

More expert information online

Scan the QR code to find out a wide range of tool and application knowledge relating to PFERD TOOLS' high-quality tools and their huge variety of materials.



Filament materials and their application

Selecting the filament material

Filament material	Material to be working on						
	Steel	Stainless steel (INOX)	Non-ferrous metals			Cast iron	Plastics
			Aluminium	Soft non-ferrous metals Brass, copper, zin	Hard non-ferrous metals Titanium, bronze, nickel-based and cobalt-based alloys		
Steel wire (ST)	●	-	-	-	-	●	○
Steel cord wire (LIT ST, LIT STM)	●	-	-	-	-	●	○
Stainless steel wire (INOX)	○	●	●	○	○	-	-
Stainless steel cord wire (LIT INOX)	○	●	●	○	○	-	-
Stainless steel wire (INOX) Diamond (DIA)	○	-	-	-	●	●	●
Brass wire (MES)	-	-	-	●	-	-	-
Silicon carbide (SiC)	●	●	●	-	○	●	●
Aluminium oxide (AO)	○	○	●	-	-	○	○
Ceramic oxide grain (CO)	●	○	○	-	●	●	-
Diamond (DIA)	○	-	-	-	●	●	●
Nylon	-	-	○	○	-	-	●
Bristle and goat hair (with polishing paste)	●	●	●	●	●	●	●

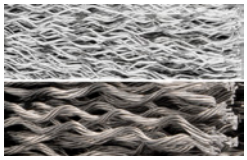
● = highly suitable ○ = suitable - = not suitable

Industrial power brushes
Filament materials and their application

PFERD TOOLS

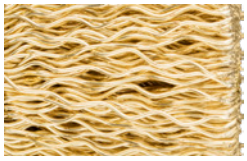
Wire filament
- **Crimped brushes (wavy wire):** for work with particular requirements on the flexibility of the brushes, such as machining of highly contoured workpieces.
- **Knotted brushes (straight wire):** for work that requires aggressive brushing behaviour, such as work on weld seams.

Steel wire (ST, LIT ST)
Advantages/properties:
- PFERD TOOLS special wire with high tensile strength and bending fatigue strength.
- Guarantees a long tool life, even for extreme brushing applications.
- Temperature resistance: up to 300°C



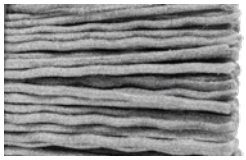
Stainless steel wire (INOX, LIT INOX)
Advantages/properties:
- Wire quality 1.4310/1.4301 (V2A): stainless; does not leave corroding residues on the workpiece.
- Used with low rotational speeds, compared to steel wire.
- PFERD TOOLS brushes with INOX filament are usually degreased.
- Temperature resistance: up to 450°C

Stainless steel wire (INOX) diamond (DIA)
Advantages/properties:
- Particularly well suited to applications that place particular demands on the aggressiveness of the brush.
- Primarily used on materials with high material strength.
- Temperature resistance: up to 450°C



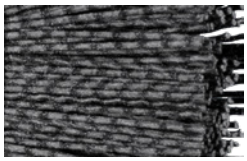
Brass wire (MES)
Advantages/properties:
- Wire quality CuZn37: brass wire is softer than steel wire.
- It is non-sparking and produces fine surface finishes.
- Temperature resistance: up to 180°C

Plastic filament
- Abrasive grains are embedded in flexible plastic filaments, which means that the filament works on the sides as well as at the tip.
- **Round filament:** for applications that place particular demands on the flexibility of the brush.
- **Rectangular filament (REC):** for applications that place particular demands on the aggressiveness of the brush.
- Recommendation for use: Use coolant for applications where large amounts of heat are produced.



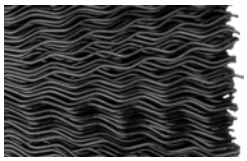
Silicon carbide (SiC)
Advantages/properties:
- Particularly well suited to deburring work and for improving surfaces.
- Temperature resistance up to 220°C

Aluminium oxide (AO)
Advantages/properties:
- Less sharp-edged and aggressive compared with SiC.
- Primarily suitable for polishing and smoothing finishes on soft metals.
- Temperature resistance up to 220°C



Ceramic oxide grain (CO)
Advantages/properties:
- Offers good toughness and excellent sharpness.
- For high stock removal and aggressive brushing.
- Temperature resistance up to 220°C

Diamond (DIA)
Advantages/properties:
- Particularly well suited to applications that place particular demands on the aggressiveness of the brush.
- Primarily used on materials with high material strength.
- Temperature resistance up to 220°C



Nylon
Advantages/properties:
- Particularly suited to working with materials that would otherwise be scratched or damaged, e.g. soft plastics.
- Temperature resistance up to 220°C

Natural bristles
- Primarily suitable for light cleaning and dust removal, as well as for polishing (in combination with polishing pastes).

White (SBW) and black (SBS) bristles
Advantages/properties:
- Bristles are harder and less flexible than brushes with goat hair filament.
- Temperature resistance: up to 150°C

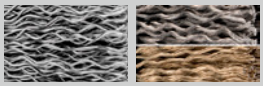
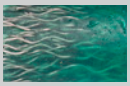
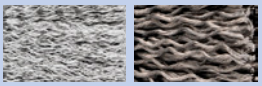
Goat hair (ZHW)
Advantages/properties:
- Goat hair is more flexible and softer than bristle.
- Temperature resistance: up to 150°C

Industrial power brushes
The quick way to find the perfect tool

① **Select the filament material.** The material that you are working with is key to determining the optimum filament material.
② **Select the filament type.** The brushing effect you want determines which filament type to choose.
③ **Select the tool.** The application and geometry of the workpiece indicate the optimum brush.

Industrial power brushes
The quick way to find the perfect tool

PFERD TOOLS

Materials that can be worked	Steel, cast iron, plastics			Stainless steel (INOX), aluminium, other non-ferrous metals	
Filament material	Steel wire (ST, LIT ST, LIT STM) Colour code: grey			Stainless steel wire (INOX, LIT INOX) Colour code: blue	
Filament type	knotted	 crimped	 encapsulated	knotted	 crimped
Desired effect	Aggressive brushing effect, less flexible	Light brushing effect, flexible	Very aggressive brushing effect, not flexible	Aggressive brushing effect, less flexible	Light brushing effect, flexible
Weld seam	RBG RBG PIPE	HBU HBK	RBV	RBG RBG PIPE	HBU HBK
Structuring surfaces		RBU RBU SC WBU			RBU WBU
Edge deburring	KBG RBG RBG	KBU RBU RBU RBU	RBV	KBG RBG RBG	KBU RBU RBU RBU
Surface deburring	TBG	TBU TBU		TBG	TBU TBU
Interior deburring	PBG	PBU PBU TBU IBU	PBV	PBG	PBU PBU TBU IBU
Surface cleaning	TBG KBG RBG RBG	TBU KBU RBU RBU HBU		TBG KBG RBG RBG	TBU KBU RBU RBU HBU
Interior cleaning	PBG	PBU PBU TBU	PBV	PBG	PBU PBU TBU IBU

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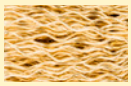
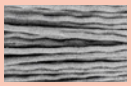
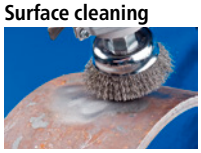
Industrial power brushes
The quick way to find the perfect tool

PFERD TOOLS

Materials that can be worked	Brass, copper, other non-ferrous metals	Steel, stainless steel (INOX), aluminium, non-ferrous metals, titanium, cast, plastics, wood	Steel, stainless steel (INOX), non-ferrous metals, cast iron
Filament material	Brass wire (MES) Colour code: yellow	Plastic filament (SiC, CO, nylon) Colour code: red	Natural materials Colour code: brown
Filament type	 crimped	 crimped	 crimped
Desired effect	Light brushing effect, flexible	Grinding brushing effect, very flexible	Light brushing effect (use with polishing pastes)
Weld seam	 HBU		
Structuring surfaces		 RBU RBUP WBU	
Edge deburring	 RBU RBU	 RBU RBUP RBU RBU	
Surface deburring		 TBU DBU TBU	
Interior deburring	 PBU PBU TBU IBU	 PBU PBU TBU IBU	
Surface cleaning 	 RBU HBU	 TBU RBU RBUP DBU TBU RBU	
Interior cleaning	 PBU IBU	 PBU PBU TBU IBU	 PBU TBU
Polishing			 RBU PBU TBU

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Industrial power brushes
Safety notes

Safety notes:

As one of the leading manufacturers of brush tools, PFERD TOOLS fulfils the requirements of European standard EN 1083. Guidelines on the safe and economic use of PFERD TOOLS brushes are supplied with every packaging unit. They help you to increase your level of personal work safety.

Wear eye protection!

Wear hearing protection!

Wear a dust mask!

Wear gloves!

Observe the safety notes!

Use a protective machine guard!

Maximum permitted rotational speed

In order to guarantee operating safety, the maximum permitted rotational speed indicated on the brush, label and in this catalogue must never be exceeded! Please refer to our product information and product tables for further recommendations regarding optimum operating speeds. These give details of the recommended rotational speeds [RPM] for an optimum working result.

Brush diameter

In the case of hand-held tool drives, the brush diameter should never exceed 180 mm, regardless of the filament material.

Total dia. D of the brush [mm]	Minimum arbor hole dia. D_A [mm]
50	4.6
75	6.5
100	10
150	13
200	16
250	20
300	20
350	32

Minimum arbor hole diameter according to EN 1083

Brushes must comply with the minimum arbor hole diameters (D_A) listed below, depending on their total diameter (D).

Industrial power brushes
Cutting speeds

Determining the recommended rotational speed

① Select the brush type.
② Read the recommended cutting speed.
③ Determine the rotational speed using the brush diameter and cutting speed.

The recommended cutting speed ranges [m/s] depend on the respective application and lie below the maximum permitted cutting speed.

① Brush type	② Cutting speed
End brushes	5–15 m/s
Cup brushes	15–45 m/s
Shank-mounted wheel brushes	15–40 m/s
Rund-/Kegelbürsten mit Bohrung/Gewinde	See diagram below

② Recommended cutting speed [m/s] for wheel/bevel brushes with arbor hole/ threaded.
The colour bars correspond to the colour codes of the filament materials.

Application		[m/s] 10	15	20	25	30	35	40	45	50	55
Deburring/ edge breaking	knotted						35–45 m/s				
						30–40 m/s					
	crimped				25–40 m/s						
			15–30 m/s								
			15–30 m/s								
Removal of scale/ mill scale	knotted						35–55 m/s				
						30–40 m/s					
Cleaning/ roughening of surfaces	knotted						35–40 m/s				
						30–35 m/s					
	crimped			20–40 m/s							
			15–35 m/s								
			15–30 m/s								
Weld dressing	knotted						35–55 m/s				
						30–40 m/s					
	crimped					30–45 m/s					
					25–40 m/s						

③ Recommended rotational speeds [RPM]
Example:
RBG 11512 ST
Cleaning surfaces
Brush diameter D: 115 mm
Cutting speed: 39 m/s
Rotational speed: 6,500 RPM

n [RPM]	Brush dia. D [mm] 10	15	20	25	30	40	50	60	75	80	100	115	125	150	175	200	250	300
1,000	1	1	1	1	2	2	3	3	4	4	5	6	7	8	9	10	13	16
1,250	1	1	1	2	2	3	3	4	5	5	7	8	8	10	11	13	16	20
1,500	1	1	2	2	2	3	4	5	6	6	8	9	10	12	14	16	20	24
1,750	1	1	2	2	3	4	5	5	7	7	9	11	11	14	16	18	23	27
2,000	1	2	2	3	3	4	5	6	8	8	10	12	13	16	18	21	26	31
2,500	1	2	3	3	4	5	7	8	10	10	13	15	16	20	23	26	33	39
3,000	2	2	3	4	5	6	8	9	12	13	16	18	20	24	27	31	39	47
3,500	2	3	4	5	5	7	9	11	14	15	18	21	23	27	32	37	46	55
4,000	2	3	4	5	6	8	10	13	16	17	21	24	26	31	37	42	52	63
4,500	2	4	5	6	7	9	12	14	18	19	24	27	29	35	41	47	59	71
5,000	3	4	5	7	8	10	13	16	20	21	26	30	33	39	46	52	65	79
5,500	3	4	6	7	9	12	14	17	22	23	29	33	36	43	50	58	72	
6,000	3	5	6	8	9	13	16	19	24	25	31	36	39	47	55	63	79	
6,500	3	5	7	9	10	14	17	20	26	27	34	39	43	51	60	68		
7,000	4	5	7	9	11	15	18	22	27	29	37	42	46	55	64	73		
7,500	4	6	8	10	12	16	20	24	29	31	39	45	49	59	69	79		
8,000	4	6	8	10	13	17	21	25	31	34	42	48	52	63	73			
10,000	5	8	10	13	16	21	26	31	39	42	52	60	65	79				
12,000	6	9	13	16	19	25	31	38	47	50	63	72	79					
14,000	7	11	15	18	22	29	37	44	55	59	73							
16,000	8	13	17	21	25	34	42	50	63	67								
20,000	10	16	21	26	31	42	52	63	79									
22,000	12	17	23	29	35	46	58	69										
25,000	13	20	26	33	39	52	65	79										

$$\text{Cutting speed (v)} = \frac{\text{dia. (D)} \times \pi \times \text{rot. speed (n)}}{1{,}000 \times 60}$$

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Industrial power brushes
Well packaged and presented

Industrial packaging

PFERD TOOLS provides industrial power brushes in industrial packaging (IP) as standard.

Advantages:
- Robust, damage-resistant packaging.

POS packaging

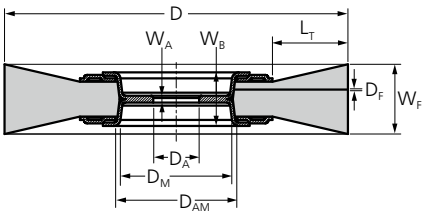
PFERD TOOLS provides wheel, cup, end and bevel brushes in promotional individual packaging. Individually packed shank brushes are supplied in a practical cardboard box. The addition of "POS" in the designation indicates all brushes in POS packaging.

Advantages:
- Functional European standard hole mounting for optimum product presentation on the sales wall.
- Product is easily recognizable through the viewing window.

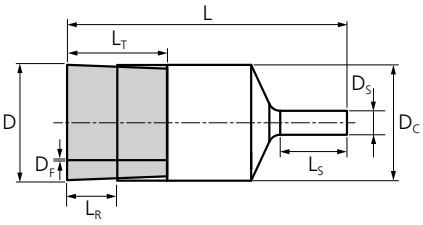
IP

POS

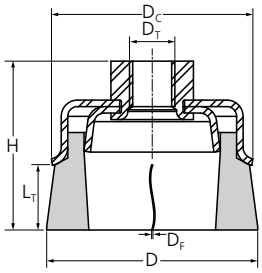
Dimensions



Wheel brushes



End brushes



Cup brushes

Explanation of dimensions

D	Nominal outer diameter of the brush or the working surface for end brushes
D_A	Hole diameter
D_{AM}	Max. hole diameter in main body
D_C	Max. diameter of the main body
D_F	Nominal dimension of the filament material (wire thickness)
D_M	Diameter in hole area

D_S	Shank diameter in shank-mounted brushes, shaft diameter for wheel brushes for burnishing machines, stem diameter (core) for pipe brushes
D_T	Nominal thread designation
H	Nominal total height (incl. components for arbor hole or thread as well as shank)
L	Nominal total length for end brushes (without guide pins) and pipe brushes
L_R	Total length of the filament material (free length without bridle)

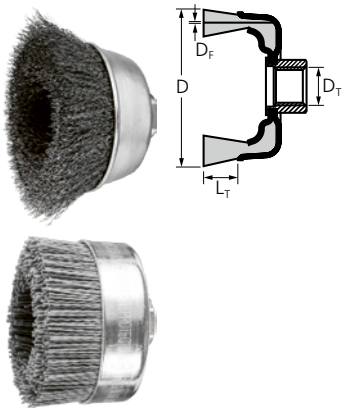
L_S	Usable length for shank or stem, total length of the mounting shaft, usable thread length
L_T	Nominal length of the filament material (free length of the filament material)
W_A	Width of the main body at the hole / thread
W_B	Installation width, widest point of the main body
W_F	Nominal dimension of the working width

Threaded cup brushes
Dimensions

Custom-made products

If you cannot find the solution for your particular application in our extensive catalogue range, we can produce brushes in premium PFERD TOOLS quality specifically for your application on request. Products that can be made to order include different wire thicknesses and qualities, arbor holes or threads and other dimensions.

crimped



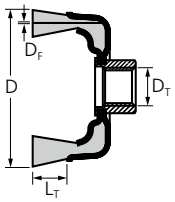
TBU

Excellent for medium-duty brushing such as deburring, cleaning and derusting on large surfaces.

Special features:
- Highly flexible, enabling optimal adjustment to the workpiece contour.
- Creates fine surfaces.

D [mm]	L_T [mm]	D_T	Grit size	D_F [mm]	Opt. RPM	Max. RPM		Item no.	Designation
Steel wire (ST)									
60	20	M14x2	-	0.30	6,300 – 9,400	12,500	1	43468902	POS TBU 60/M14 ST 0,30
							5	43468880	TBU 60/M14 ST 0,30
		X-LOCK	-	0.30	6,300 – 9,400	12,500	1	43468922	POS TBU 60/X-LOCK ST 0,30
75	25	M14x2	-	0.30	6,300 – 9,400	12,500	1	43469001	POS TBU 75/M14 ST 0,30
							5	43469010	TBU 75/M14 ST 0,30
100	25	M14x2	-	0.30	4,300 – 6,400	8,500	1	43469102	POS TBU 100/M14 ST 0,30
Stainless steel wire (INOX) – All INOX brushes are degreased.									
60	20	M14x2	-	0.30	5,000 – 8,100	12,500	1	43468905	POS TBU 60/M14 INOX 0,30
							5	43468882	TBU 60/M14 INOX 0,30
		X-LOCK	-	0.30	5,000 – 8,100	12,500	1	43468925	POS TBU 60/X-LOCK INOX 0,30
75	25	M14x2	-	0.30	5,000 – 8,100	12,500	1	43469003	POS TBU 75/M14 INOX 0,30
							5	43469012	TBU 75/M14 INOX 0,30
100	25	M14x2	-	0.30	3,400 – 5,500	8,500	1	43469103	POS TBU 100/M14 INOX 0,30
Silicon carbide (SiC) plastic filament									
100	46	M14x2	120	1.00	2,400 – 3,900	6,000	1	43469104	POS TBU 100/M14 SiC 120 1,00

Threaded cup brushes
crimped



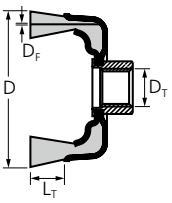
TBU, with cord wire

Excellent for medium-duty brushing such as deburring, cleaning and derusting on large surfaces.Brushes with cord wire are particularly robust and durable and are therefore ideally suited to demanding tasks. Cord wire is made of multiple wavy wires which are stranded together. This special wire construction combines the aggressive brushing effect of a knotted brush with the flexibility of a wavy brush, achieving an excellent surface finish and a longer tool life.

Special features:
- Highly flexible, enabling optimal adjustment to the workpiece contour.
- Aggressive and effective work due to the special wire construction.
- Longer tool life compared to conventional crimped brushes.

D [mm]	L_T [mm]	D_T	D_F [mm]	Opt. RPM	Max. RPM		Item no.	Designation
Brass-plated steel cord wire (LIT STM)								
60	20	M14x2	0.25	6,300 – 9,400	12,500	1	43468881	POS TBU 60/M14 LIT STM 0,25

knotted



TBG

Aggressive brush. Excellent for heavy-duty brushing such as deburring, cleaning, derusting and descaling and removal of spatter.

Special features:
- Aggressive brushing effect due to the very stiff wire knots.

D [mm]	L_T [mm]	D_T	D_F [mm]	Knots	Opt. RPM	Max. RPM		Item no.	Designation
Steel wire (ST)									
65	22	M14x2	0.35	18	6,300 – 12,500	12,500	1	43305002	POS TBG 65/M14 ST 0,35
							5	43305020	TBG 65/M14 ST 0,35
			0.50	18	6,300 – 12,500	12,500	1	43305001	POS TBG 65/M14 ST 0,50
							5	43305021	TBG 65/M14 ST 0,50
		X-LOCK	0.50	18	6,300 – 12,500	12,500	1	43305026	POS TBG 65/X-LOCK ST 0,50
		M14x2	0.80	18	6,300 – 12,500	12,500	1	43305018	POS TBG 65/M14 ST 0,80
80	20	M14x2	0.50	20	5,000 – 10,000	10,000	1	43306031	POS TBG 80/M14 ST 0,50
							5	43306040	TBG 80/M14 ST 0,50
100	25	M14x2	0.50	24	4,500 – 9,000	9,000	1	43308031	POS TBG 100/M14 ST 0,50
							5	43308040	TBG 100/M14 ST 0,50
Stainless steel wire (INOX) – All INOX brushes are degreased.									
65	22	M14x2	0.35	18	5,000 – 12,500	12,500	1	43305003	POS TBG 65/M14 INOX 0,35
							5	43305023	TBG 65/M14 INOX 0,35
			0.50	18	5,000 – 12,500	12,500	1	43305004	POS TBG 65/M14 INOX 0,50
							5	43305024	TBG 65/M14 INOX 0,50
		X-LOCK	0.50	18	5,000 – 12,500	12,500	1	43305028	POS TBG 65/X-LOCK INOX 0,50
80	20	M14x2	0.35	20	4,000 – 10,000	10,000	1	43306033	POS TBG 80/M14 INOX 0,35
							5	43306042	TBG 80/M14 INOX 0,35

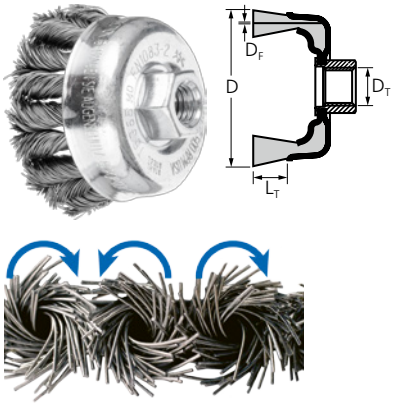
Continued on next page

New item

Threaded cup brushes
knotted

PFERD TOOLS

D [mm]	L_T [mm]	D_T	D_F [mm]	Knots	Opt. RPM	Max. RPM		Item no.	Designation
80	20	M14x2	0.50	20	4,000 – 10,000	10,000	1	43306035	POS TBG 80/M14 INOX 0,50
							5	*43306044*	TBG 80/M14 INOX 0,50
100	25	M14x2	0.35	24	3,600 – 9,000	9,000	1	43308033	POS TBG 100/M14 INOX 0,35
							5	43308042	TBG 100/M14 INOX 0,35
			0.50	24	3,600 – 9,000	9,000	1	43308035	POS TBG 100/M14 INOX 0,50
							5	*43308044*	TBG 100/M14 INOX 0,50



TBG CT, COMBITWIST

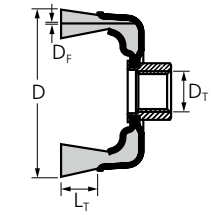
Very aggressive brush. Excellent for heavy-duty brushing such as deburring, cleaning, derusting and descaling and removal of spatter. Suitable for work on corners and edges as the knots are less likely to unravel.

Special features:
- Maximum economic efficiency due to maximum tool life and stock removal rate.
- High level of comfort thanks to smooth running with no brush recoiling.
- Aggressive brushing effect due to the very stiff wire knots.

D [mm]	L_T [mm]	D_T	D_F [mm]	Knots	Opt. RPM	Max. RPM		Item no.	Designation
Steel wire (ST)									
65	22	M14x2	0.35	18	6,300 – 12,500	12,500	1	43305041	POS TBG 65/M14 CT ST 0,35
							5	43305030	TBG 65/M14 CT ST 0,35
			0.50	18	6,300 – 12,500	12,500	1	43305051	POS TBG 65/M14 CT ST 0,50
							5	43305031	TBG 65/M14 CT ST 0,50
80	20	M14x2	0.50	20	5,000 – 10,000	10,000	1	43306061	POS TBG 80/M14 CT ST 0,50
							5	43306070	TBG 80/M14 CT ST 0,50
100	25	M14x2	0.50	24	4,500 – 9,000	9,000	1	43308061	POS TBG 100/M14 CT ST 0,50
							5	43308070	TBG 100/M14 CT ST 0,50
Stainless steel wire (INOX) – All INOX brushes are degreased.									
65	22	M14x2	0.35	18	5,000 – 12,500	12,500	1	43305043	POS TBG 65/M14 CT INOX 0,35
			0.50	18	5,000 – 12,500	12,500	1	43305053	POS TBG 65/M14 CT INOX 0,50
80	20	M14x2	0.35	20	4,000 – 10,000	10,000	1	43306063	POS TBG 80/M14 CT INOX 0,35
100	25	M14x2	0.35	24	3,600 – 9,000	9,000	1	43308063	POS TBG 100/M14 CT INOX 0,35

Discontinued product

Threaded cup brushes
knotted

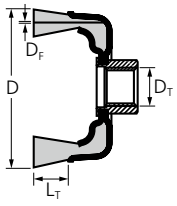


TBG HD, two rows

Double-row, very aggressive and robust brush that is able to withstand high mechanical loads. Excellent for heavy-duty brushing such as deburring, cleaning, derusting and descaling and removal of spatter. Extremely high filament density for optimum tool life.

Special features:
- Double-row design enables fast brushing results thanks to larger filament width.
- High level of comfort thanks to smooth running on corners and edges.
- Aggressive brushing effect due to the very stiff wire knots.

D [mm]	L_T [mm]	D_T	D_F [mm]	Knots	Opt. RPM	Max. RPM		Item no.	Designation
Steel wire (ST)									
65	22	M14x2	0.50	48	6,300 – 12,500	12,500	1	43305032	POS TBG 65/M14 ST 0,50 2RH HD
Stainless steel wire (INOX) – All INOX brushes are degreased.									
65	22	M14x2	0.50	48	5,000 – 12,500	12,500	1	43305033	POS TBG 65/M14 INOX 0,50 2RH HD

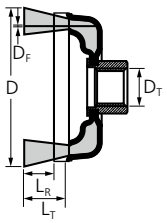


TBG, DIA

Brushes with stainless steel wire (INOX) diamond (DIA) filament material are suitable for applications that place particular demands on the aggressiveness of the brush. They are primarily used on materials with high material strength.

Special features:
- The knots of the brush are knotted to 50% of the length, ensuring an optimal ratio of aggressiveness and flexibility.
- The brush achieves a better surface quality on uneven surfaces than conventional knotted brushes.

D [mm]	L_T [mm]	D_T	Grit size	D_F [mm]	Knots	Opt. RPM	Max. RPM		Item no.	Designation
Stainless steel wire (INOX) diamond (DIA)										
65	22	M14x2	270	0.50	18	1,500 – 3,700	12,500	1	43703023	TBG 65/M14 INOX 0,50 DIA 270
100	38	M14x2	270	0.50	24	1,000 – 2,400	9,000	1	43703022	TBG 100/M14 INOX 0,50 DIA 270



TBGR, with bridle

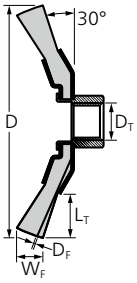
Aggressive brush with bridle. Excellent for heavy-duty brushing such as deburring, cleaning, derusting and descaling, as well as removing spatter on large areas. The brush impresses with a particularly long tool life.

Special features:
- The bridle prevents the wires spreading out sideways. The bridle enables the spreading out and flexibility of the brush filament to be controlled.
- If the filament has worn away down to the bridle, it can be removed from the bridle for further use. This does not affect the brushing behaviour.
- Aggressive brushing effect due to the very stiff wire knots.

D [mm]	L_R [mm]	L_T [mm]	D_T	D_F [mm]	Knots	Opt. RPM	Max. RPM		Item no.	Designation
Steel wire (ST)										
80	25	40	M14x2	0.50	22	4,300 – 8,500	8,500	1	43306001	TBGR 80/M14 ST 0,50
100	25	40	M14x2	0.50	26	4,300 – 8,500	8,500	1	43308001	TBGR 100/M14 ST 0,50

Threaded bevel brushes
crimped

PFERD TOOLS

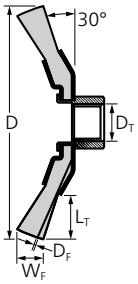


KBU

Excellent for medium-duty brushing such as deburring, cleaning and derusting. Can be used on angle grinders up to 80 m/s.

Special features:
- Optimal access to hard-to-reach areas such as inner edges, grooves and keyways.
- Highly flexible, enabling optimal adjustment to the workpiece contour.
- Creates fine surfaces.

D [mm]	W_F [mm]	L_T [mm]	D_T	D_F [mm]	Opt. RPM	Max. RPM		Item no.	Designation
Steel wire (ST)									
100	10	22	M14x2	0.35	6,300 – 12,500	12,500	1	43316001	POS KBU 10010/M14 ST 0,35
							5	43316010	KBU 10010/M14 ST 0,35
115	10	30	M14x2	0.35	6,300 – 12,500	12,500	1	43316021	POS KBU 11510/M14 ST 0,35
125	10	22	M14x2	0.35	6,300 – 11,000	11,000	5	43220120	KBU 12510/M14 ST 0,35
Stainless steel wire (INOX) – All INOX brushes are degreased.									
100	10	22	M14x2	0.35	5,000 – 12,500	12,500	1	43316003	POS KBU 10010/M14 INOX 0,35
							5	43316012	KBU 10010/M14 INOX 0,35
115	10	30	M14x2	0.35	5,000 – 12,500	12,500	1	43316023	POS KBU 11510/M14 INOX 0,35
125	10	22	M14x2	0.35	5,000 – 11,000	11,000	5	43220121	KBU 12510/M14 INOX 0,35



KBU, with cord wire

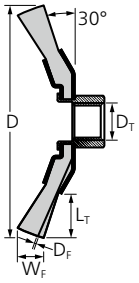
Excellent for medium-duty brushing such as deburring, cleaning and derusting. Can be used on angle grinders up to 80 m/s.Brushes with cord wire are particularly robust and durable and are therefore ideally suited to demanding tasks. Cord wire is made of multiple wavy wires which are stranded together. This special wire construction combines the aggressive brushing effect of a knotted brush with the flexibility of a wavy brush, achieving an excellent surface finish and a longer tool life.

Special features:
- Highly flexible, enabling optimal adjustment to the workpiece contour.
- Aggressive and effective work due to the special wire construction.
- Longer tool life compared to conventional crimped brushes.

D [mm]	W_F [mm]	L_T [mm]	D_T	D_F [mm]	Opt. RPM	Max. RPM		Item no.	Designation
Brass-plated steel cord wire (LIT STM)									
100	10	20	M14x2	0.20	6,300 – 12,500	12,500	1	43316007	POS KBU 10010/M14 LIT STM 0,20
Stainless steel wire (INOX) – LIT INOX = stranded INOX wire									
100	10	20	M14x2	0.30	5,000 – 12,500	12,500	1	43316008	POS KBU 10010/M14 LIT INOX 0,30

New item

Threaded bevel brushes
knotted

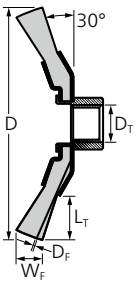


KBG

Aggressive brush. Excellent for heavy-duty brushing such as deburring, cleaning, derusting and descaling and removal of spatter.

Special features:
- Optimal access to hard-to-reach areas such as inner edges, grooves and keyways.
- Aggressive brushing effect due to the very stiff wire knots.

D [mm]	W_F [mm]	L_T [mm]	D_T	D_F [mm]	Knots	Opt. RPM	Max. RPM		Item no.	Designation
Steel wire (ST)										
100	13	22	M14x2	0.50	24	10,000 – 15,000	20,000	1	43313001	POS KBG 10013/M14 ST 0,50
								5	43312910	KBG 10013/M14 ST 0,50
115	15	26	M14x2	0.50	24	7,500 – 12,500	15,000	1	43315001	POS KBG 11515/M14 ST 0,50
								5	43314010	KBG 11515/M14 ST 0,50
125	15	19	M14x2	0.50	28	7,500 – 12,000	15,000	1	43317001	POS KBG 12515/M14 ST 0,50
Stainless steel wire (INOX) – All INOX brushes are degreased.										
100	13	22	M14x2	0.35	24	8,600 – 15,000	20,000	1	43313003	POS KBG 10013/M14 INOX 0,35
				0.50	24	8,600 – 15,000	20,000	1	43313006	POS KBG 10013/M14 INOX 0,50
115	15	26	M14x2	0.35	24	6,000 – 12,500	15,000	1	43315003	POS KBG 11515/M14 INOX 0,35
125	15	19	M14x2	0.35	28	6,000 – 12,500	15,000	1	43317003	POS KBG 12515/M14 INOX 0,35
				0.50	28	6,000 – 12,500	15,000	1	43317007	POS KBG 12515/M14 INOX 0,50



KBG CT, COMBITWIST

Very aggressive brush. Excellent for heavy-duty brushing such as deburring, cleaning, derusting and descaling and removal of spatter. Suitable for work on corners and edges as the knots are less likely to unravel.

Special features:
- Optimal access to hard-to-reach areas such as inner edges, grooves and keyways.
- Maximum economic efficiency due to maximum tool life and stock removal rate and high level of comfort thanks to smooth running with no brush recoiling.
- Aggressive brushing effect due to the very stiff wire knots.

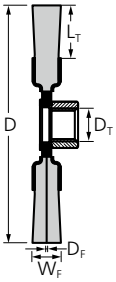
D [mm]	W_F [mm]	L_T [mm]	D_T	D_F [mm]	Knots	Opt. RPM	Max. RPM		Item no.	Designation
Steel wire (ST)										
100	13	22	M14x2	0.50	24	10,000 – 15,000	20,000	1	43313011	POS KBG 10013/M14 CT ST 0,50
								5	43312920	KBG 10013/M14 CT ST 0,50
115	15	26	M14x2	0.50	24	7,500 – 12,500	15,000	1	43315011	POS KBG 11515/M14 CT ST 0,50
								5	43314020	KBG 11515/M14 CT ST 0,50
125	15	19	M14x2	0.50	28	7,500 – 12,500	15,000	1	43317011	POS KBG 12515/M14 CT ST 0,50

Continued on next page

Threaded bevel brushes
knotted

D [mm]	W_F [mm]	L_T [mm]	D_T	D_F [mm]	Knots	Opt. RPM	Max. RPM		Item no.	Designation
Stainless steel wire (INOX) – All INOX brushes are degreased.										
100	13	22	M14x2	0.35	24	8,000 – 15,000	20,000	1	43313013	POS KBG 10013/M14 CT INOX 0,35
				0.50	24	8,000 – 15,000	20,000	1	43313016	POS KBG 10013/M14 CT INOX 0,50
115	15	26	M14x2	0.35	24	6,000 – 12,500	15,000	1	43315013	POS KBG 11515/M14 CT INOX 0,35
125	15	19	M14x2	0.35	28	6,000 – 12,500	15,000	1	43317013	POS KBG 12515/M14 CT INOX 0,35

Wheel brushes
crimped

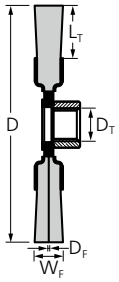


RBU, for angle grinders

Suitable for medium-duty brushing such as derusting, cleaning of weld seams and light deburring work. Can be used on angle grinders up to 80 m/s.

Special features:
- Highly flexible, enabling optimal adjustment to the workpiece contour.
- Creates fine surfaces.

D [mm]	W_F [mm]	L_T [mm]	D_T	D_F [mm]	Opt. RPM	Max. RPM		Item no.	Designation
Steel wire (ST)									
115	12	25	M14x2	0.30	6,300 – 12,500	12,500	1	43502201	POS RBU 11512/M14 ST 0,30
125	12	15	M14x2	0.30	5,500 – 11,000	11,000	1	43502301	POS RBU 12512/M14 ST 0,30
Stainless steel wire (INOX) – All INOX brushes are degreased.									
115	12	25	M14x2	0.30	5,000 – 12,500	12,500	1	43502202	POS RBU 11512/M14 INOX 0,30
125	12	15	M14x2	0.30	4,400 – 11,000	11,000	1	43502302	POS RBU 12512/M14 INOX 0,30



RBU, with cord wire

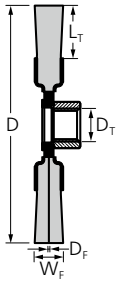
Suitable for medium-duty brushing such as derusting, cleaning of weld seams and light deburring work.Brushes with cord wire are particularly robust and durable and are therefore ideally suited to demanding tasks. Cord wire is made of multiple wavy wires which are stranded together. This special wire construction combines the aggressive brushing effect of a knotted brush with the flexibility of a wavy brush, achieving an excellent surface finish and a longer tool life.

Special features:
- Highly flexible, enabling optimal adjustment to the workpiece contour.
- Aggressive and effective work due to the special wire construction.
- Longer tool life compared to conventional crimped brushes.

D [mm]	W_F [mm]	L_T [mm]	D_T	D_F [mm]	Opt. RPM	Max. RPM		Item no.	Designation
Brass-plated steel cord wire (LIT STM)									
115	15	25	M14x2	0.20	6,300 – 12,500	12,500	1	43502203	POS RBU 11515/M14 LIT STM 0,20
125	15	29	M14x2	0.20	5,500 – 12,500	12,500	1	43502303	POS RBU 12515/M14 LIT STM 0,20
Stainless steel wire (INOX) – LIT INOX = stranded INOX wire									
115	15	25	M14x2	0.30	5,000 – 12,500	12,500	1	43502204	POS RBU 11515/M14 LIT INOX 0,30
125	15	29	M14x2	0.30	4,400 – 12,500	12,500	1	43502304	POS RBU 12515/M14 LIT INOX 0,30

New item

Wheel brushes
crimped



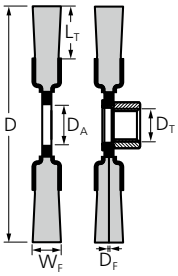
RBU, POLISCRATCH

Excellent for processing and removing soft materials such as underseal and anti-drumming compound. Most suitable for achieving rough surfaces with a sandblasted appearance due to the specific geometry of the filament material.

Special features:
- High cooling effect and no smearing or loading of the brush due to the open construction of the filament material.
- Longer tool life as the brush can be re-sharpened using a sharpening block.
- Use only on speed-adjustable angle and straight grinders.

D [mm]	W_F [mm]	L_T [mm]	D_T	D_F [mm]	Opt. RPM	Max. RPM		Item no.	Designation
Steel wire (ST)									
100	20	18	M14x2	0.60	1,200 – 3,500	6,000	5	43502102	POS RBU 10020/M14 SC ST 0,60

knotted



RBG

Aggressive brush. Suitable for heavy-duty brushing in metalwork such as descaling, derusting, deburring, cleaning of weld seams, removal of adhesive residues and spatter.

Special features:
- Aggressive brushing effect due to the very stiff wire knots.

D [mm]	W_F [mm]	L_T [mm]	D_A / D_T	D_F [mm]	Knots	Opt. RPM	Max. RPM		Item no.	Designation
Steel wire (ST)										
100	12	28	M14x2	0.50	22	10,000 – 15,000	20,000	1	43302000	POS RBG 10012/M14 ST 0,50
115	12	22	22.2	0.50	24	6,300 – 12,500	12,500	1	43312001	POS RBG 11512/22,2 ST 0,50
								10	43302120	RBG 11512/22,2 ST 0,50
			M14x2	0.50	24	6,300 – 12,500	12,500	1	43312002	POS RBG 11512/M14 ST 0,50
			X-LOCK	0.50	24	6,300 – 12,500	12,500	1	43312031	POS RBG 11512/X-LOCK ST 0,50
125	12	28	22.2	0.50	24	5,500 – 12,500	12,500	1	43303005	POS RBG 12512/22,2 ST 0,50
								10	43303020	RBG 12512/22,2 ST 0,50
			M14x2	0.50	24	5,500 – 12,500	12,500	1	43303013	POS RBG 12512/M14 ST 0,50
			X-LOCK	0.50	24	6,300 – 12,500	12,500	1	43303035	POS RBG 12512/X-LOCK ST 0,50
150	13	26	22.2	0.60	30	5,000 – 10,000	10,000	1	43309015	POS RBG 15013/22,2 ST 0,60
178	13	38	22.2	0.50	30	4,500 – 8,500	9,000	1	43304001	POS RBG 17813/22,2 ST 0,50
								10	43304020	RBG 17813/22,2 ST 0,50
				0.80	30	4,500 – 8,500	9,000	1	43304007	POS RBG 17813/22,2 ST 0,80
			M14x2	0.50	30	4,500 – 8,500	9,000	1	43304009	POS RBG 17813/M14 ST 0,50

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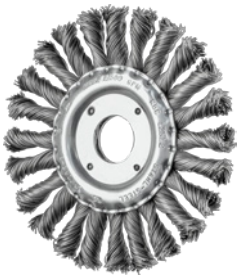
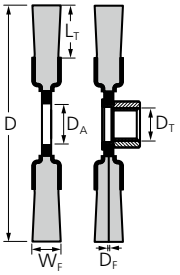
D [mm]	W_F [mm]	L_T [mm]	D_A / D_T	D_F [mm]	Knots	Opt. RPM	Max. RPM		Item no.	Designation
Stainless steel wire (INOX) – All INOX brushes are degreased.										
115	12	22	22.2	0.35	24	5,000 – 12,500	12,500	1	43312003	POS RBG 11512/22,2 INOX 0,35
								10	43302122	RBG 11512/22,2 INOX 0,35
				0.50	24	5,000 – 12,500	12,500	1	43312006	POS RBG 11512/22,2 INOX 0,50
								10	43302124	RBG 11512/22,2 INOX 0,50
			M14x2	0.35	24	5,000 – 12,500	12,500	1	43312004	POS RBG 11512/M14 INOX 0,35
				0.50	24	5,000 – 12,500	12,500	1	43312008	POS RBG 11512/M14 INOX 0,50
			X-LOCK	0.50	24	5,000 – 12,500	12,500	1	43312036	POS RBG 11512/X-LOCK INOX 0,50
125	12	28	22.2	0.35	24	4,400 – 12,500	12,500	1	43303006	POS RBG 12512/22,2 INOX 0,35
								10	43303022	RBG 12512/22,2 INOX 0,35
				0.50	24	4,400 – 12,500	12,500	1	43303008	POS RBG 12512/22,2 INOX 0,50
								10	43303024	RBG 12512/22,2 INOX 0,50
			M14x2	0.35	24	4,400 – 12,500	12,500	1	43303007	POS RBG 12512/M14 INOX 0,35
				0.50	24	4,400 – 12,500	12,500	1	43303009	POS RBG 12512/M14 INOX 0,50
			X-LOCK	0.50	24	5,000 – 12,500	12,500	1	43303038	POS RBG 12512/X-LOCK INOX 0,50
178	13	38	22.2	0.35	30	3,600 – 8,500	9,000	1	43304003	POS RBG 17813/22,2 INOX 0,35
								10	43304022	RBG 17813/22,2 INOX 0,35
				0.50	30	3,600 – 8,500	9,000	1	43304002	POS RBG 17813/22,2 INOX 0,50
								10	43304024	RBG 17813/22,2 INOX 0,50
			M14x2	0.35	30	3,600 – 8,500	9,000	1	43304010	POS RBG 17813/M14 INOX 0,35
				0.50	30	3,600 – 8,500	9,000	1	*43304012*	POS RBG 17813/M14 INOX 0,50





RBG CT, COMBITWIST

Very aggressive brush. Suitable for heavy-duty brushing in metalwork such as descaling, derusting, deburring, cleaning of weld seams and removal of adhesive residues and spatter. Suitable for work on corners and edges as the knots are less likely to unravel.

Special features:

- Maximum economic efficiency due to maximum tool life and stock removal rate.
- High level of comfort thanks to smooth running with no brush recoiling.
- Aggressive brushing effect due to the very stiff wire knots.

D [mm]	W_F [mm]	L_T [mm]	D_A / D_T	D_F [mm]	Knots	Opt. RPM	Max. RPM		Item no.	Designation
Steel wire (ST)										
115	12	22	22.2	0.50	24	6,300 – 12,500	12,500	1	43312011	POS RBG 11512/22,2 CT ST 0,50
								10	43302140	RBG 11512/22,2 CT ST 0,50
			M14x2	0.50	24	6,300 – 12,500	12,500	1	43302131	POS RBG 11512/M14 CT ST 0,50
125	12	28	22.2	0.50	24	5,500 – 12,500	12,500	1	43303010	POS RBG 12512/22,2 CT ST 0,50
								10	43303070	RBG 12512/22,2 CT ST 0,50
			M14x2	0.50	24	5,500 – 12,500	12,500	1	43303051	POS RBG 12512/M14 CT ST 0,50
178	13	38	22.2	0.50	30	4,500 – 8,500	9,000	1	43304011	POS RBG 17813/22,2 CT ST 0,50
								10	43304040	RBG 17813/22,2 CT ST 0,50
				0.80	30	4,500 – 8,500	9,000	1	43304017	POS RBG 17813/22,2 CT ST 0,80

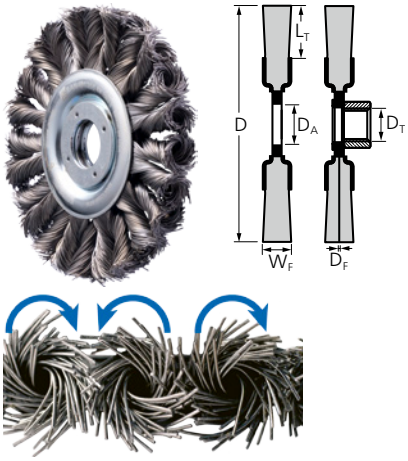
Continued on next page

Discontinued product

Wheel brushes
knotted

PFERD TOOLS

D [mm]	W_F [mm]	L_T [mm]	D_A / D_T	D_F [mm]	Knots	Opt. RPM	Max. RPM		Item no.	Designation
Stainless steel wire (INOX) – All INOX brushes are degreased.										
115	12	22	22.2	0.35	24	5,000 – 12,500	12,500	1	43312013	POS RBG 11512/22,2 CT INOX 0,35
								10	43302142	RBG 11512/22,2 CT INOX 0,35
				0.50	24	5,000 – 12,500	12,500	1	43312015	POS RBG 11512/22,2 CT INOX 0,50
			M14x2	0.35	24	5,000 – 12,500	12,500	1	43302133	POS RBG 11512/M14 CT INOX 0,35
				0.50	24	5,000 – 12,500	12,500	1	43302135	POS RBG 11512/M14 CT INOX 0,50
125	12	28	22.2	0.35	24	4,400 – 12,500	12,500	1	43303011	POS RBG 12512/22,2 CT INOX 0,35
								10	43303072	RBG 12512/22,2 CT INOX 0,35
				0.50	24	4,400 – 12,500	12,500	1	43303012	POS RBG 12512/22,2 CT INOX 0,50
								10	43303074	RBG 12512/22,2 CT INOX 0,50
			M14x2	0.35	24	4,400 – 12,500	12,500	1	43303053	POS RBG 12512/M14 CT INOX 0,35
				0.50	24	4,400 – 12,500	12,500	1	43303055	POS RBG 12512/M14 CT INOX 0,50
178	13	38	22.2	0.35	30	3,600 – 8,500	9,000	1	43304013	POS RBG 17813/22,2 CT INOX 0,35
				0.50	30	3,600 – 8,500	9,000	1	43304018	POS RBG 17813/22,2 CT INOX 0,50
								10	*43304046*	RBG 17813/22,2 CT INOX 0,50



RBG CT HD, COMBITWIST

With a higher filament density and more wire filament, the tool life is at least three times longer and stock removal is improved. Suitable for heavy-duty brushing in metalwork such as descaling, derusting, deburring, cleaning of weld seams and removal of adhesive residues and spatter.

Special features:
- Extremely high filament density for optimum tool life.
- High level of comfort thanks to smooth running with no brush recoiling on corners and edges.
- Aggressive brushing effect due to the very stiff wire knots.

D [mm]	W_F [mm]	L_T [mm]	D_A / D_T	D_F [mm]	Knots	Opt. RPM	Max. RPM		Item no.	Designation
Steel wire (ST)										
115	12	22	22.2	0.50	24	6,300 – 12,500	12,500	1	43312009	POS RBG 11512/22.2 CT ST 0.50 HD
			M14x2	0.50	24	6,300 – 12,500	12,500	1	43312007	POS RBG 11512/M14 CT ST 0.50 HD
125	12	28	22.2	0.50	24	5,500 – 12,500	12,500	1	43303016	POS RBG 12512/22.2 CT ST 0.50 HD
			M14x2	0.50	24	5,500 – 12,500	12,500	1	43303015	POS RBG 12512/M14 CT ST 0.50 HD
150	13	28	22.2	0.50	30	5,000 – 10,000	10,000	1	43317031	POS RBG 15013/22.2 CT ST 0.50 HD
			M14x2	0.50	30	5,000 – 10,000	10,000	1	43317030	POS RBG 15013/M14 CT ST 0.50 HD
178	13	41	22.2	0.50	30	4,500 – 8,500	9,000	1	43317037	POS RBG 17813/22.2 CT ST 0.50 HD
			M14x2	0.50	30	4,500 – 8,500	9,000	1	43317036	POS RBG 17813/M14 CT ST 0.50 HD
Stainless steel wire (INOX) – All INOX brushes are degreased.										
115	12	22	22.2	0.35	24	5,000 – 12,500	12,500	1	43312012	POS RBG 11512/22.2 CT INOX 0.35 HD
			M14x2	0.35	24	5,000 – 12,500	12,500	1	43312010	POS RBG 11512/M14 CT INOX 0.35 HD
125	12	28	22.2	0.35	24	4,400 – 12,500	12,500	1	43303018	POS RBG 12512/22.2 CT INOX 0.35 HD
			M14x2	0.35	24	4,400 – 12,500	12,500	1	43303017	POS RBG 12512/M14 CT INOX 0.35 HD
150	13	28	22.2	0.35	30	4,000 – 10,000	10,000	1	43317034	POS RBG 15013/22.2 CT INOX 0.35 HD
			M14x2	0.35	30	4,000 – 10,000	10,000	1	43317033	POS RBG 15013/M14 CT INOX 0.35 HD

Continued on next page

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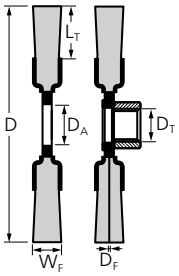
Discontinued product

Wheel brushes
knotted

PFERD TOOLS

D [mm]	W_F [mm]	L_T [mm]	D_A / D_T	D_F [mm]	Knots	Opt. RPM	Max. RPM		Item no.	Designation
178	13	41	22.2	0.35	30	3,600 – 8,500	9,000	1	43317040	POS RBG 17813/22.2 CT INOX 0.35 HD
			M14x2	0.35	30	3,600 – 8,500	9,000	1	43317039	POS RBG 17813/M14 CT INOX 0.35 HD

Pipeline



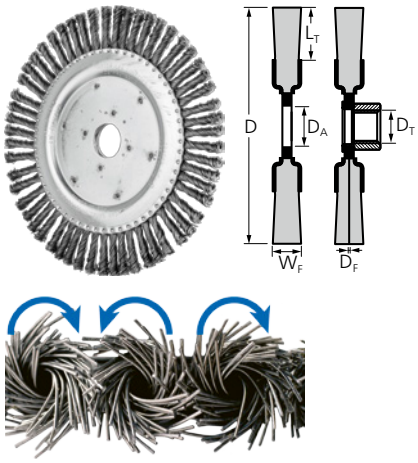
RBG PIPE, Pipeline

Aggressive and robust brush that is able to withstand high mechanical loads. Perfect for heavy-duty brushing in pipeline and container construction.

Special features:
- Extra-slim design enables optimal access to hard-to-reach areas such as root weld seams.
- Aggressive brushing effect due to the very stiff wire knots.

D [mm]	W_F [mm]	L_T [mm]	D_A / D_T	D_F [mm]	Knots	Opt. RPM	Max. RPM		Item no.	Designation
Steel wire (ST)										
100	6	19	16	0.50	32	10,000 – 15,000	20,000	10	43301001	RBG 10006/16,0 PIPE ST 0,50
115	6	21	22,2	0.50	36	6,300 – 12,500	12,500	10	43302101	RBG 11506/22,2 PIPE ST 0,50
			M14x2	0.50	36	6,300 – 12,500	12,500	10	43302102	RBG 11506/M14 PIPE ST 0,50
			X-LOCK	0.50	32	6,300 – 12,500	12,500	1	43302111	POS RBG 11506/X-LOCK PIPE ST 0,50
125	6	18	22,2	0.50	48	6,300 – 12,500	12,500	10	43302501	RBG 12506/22,2 PIPE ST 0,50
			M14x2	0.50	48	6,300 – 12,500	12,500	10	43302502	RBG 12506/M14 PIPE ST 0,50
			X-LOCK	0.50	38	6,300 – 12,500	12,500	1	43302521	POS RBG 12506/X-LOCK PIPE ST 0,50
150	6	27	22,2	0.50	56	5,000 – 10,000	10,000	10	43303501	RBG 15006/22,2 PIPE ST 0,50
			M14x2	0.50	56	5,000 – 10,000	10,000	10	43303502	RBG 15006/M14 PIPE ST 0,50
178	6	28	22,2	0.50	56	4,500 – 8,500	9,000	10	*43303801*	RBG 17806/22,2 PIPE ST 0,50 56Z
					76	4,500 – 8,500	9,000	10	43303804	RBG 17806/22,2 PIPE ST 0,50 76Z
			M14x2	0.50	76	4,500 – 8,500	9,000	10	43303805	RBG 17806/M14 PIPE ST 0,50 76Z
Stainless steel wire (INOX) – All INOX brushes are degreased.										
100	6	19	16	0.50	32	8,000 – 15,000	20,000	10	43301006	RBG 10006/16,0 PIPE INOX 0,50
115	6	21	22,2	0.50	36	5,000 – 12,500	12,500	10	43302106	RBG 11506/22,2 PIPE INOX 0,50
			M14x2	0.50	36	5,000 – 12,500	12,500	10	43302107	RBG 11506/M14 PIPE INOX 0,50
125	6	18	22,2	0.50	48	5,000 – 12,500	12,500	10	43302506	RBG 12506/22,2 PIPE INOX 0,50
			M14x2	0.50	48	5,000 – 12,500	12,500	10	43302507	RBG 12506/M14 PIPE INOX 0,50
150	6	27	22,2	0.50	56	4,000 – 10,000	10,000	10	43303506	RBG 15006/22,2 PIPE INOX 0,50
			M14x2	0.50	56	4,000 – 10,000	10,000	10	43303507	RBG 15006/M14 PIPE INOX 0,50
178	6	28	22,2	0.50	76	3,600 – 8,500	9,000	10	43303816	RBG 17806/22,2 PIPE INOX 0,50 76Z
			M14x2	0.50	76	3,600 – 8,500	9,000	10	43303817	RBG 17806/M14 PIPE INOX 0,50 76Z

Discontinued product



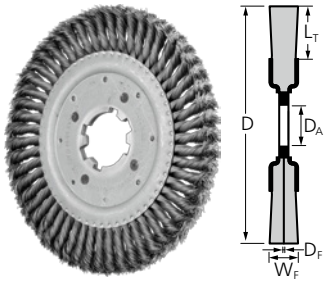
RBG PIPE CT, Pipeline COMBITWIST

Very aggressive and robust brush that is able to withstand high mechanical loads. Perfect for heavy-duty brushing in pipeline and container construction. Suitable for work on corners and edges as the knots are less likely to unravel.

Special features:
- Extra-slim design enables optimal access to hard-to-reach areas such as root weld seams.
- Maximum economic efficiency due to maximum tool life and stock removal rate. High level of comfort thanks to smooth running with no brush recoiling.
- Aggressive brushing effect due to the very stiff wire knots.

D [mm]	W_F [mm]	L_T [mm]	D_A / D_T	D_F [mm]	Knots	Opt. RPM	Max. RPM		Item no.	Designation
Steel wire (ST)										
125	6	18	22.2	0.50	48	6,300 – 12,500	12,500	10	43302504	RBG 12506/22,2 PIPE CT ST 0,50
178	6	28	22.2	0.50	72	4,500 – 8,500	9,000	10	43303810	RBG 17806/22,2 PIPE CT ST 0,50 72Z

knotted, stationary



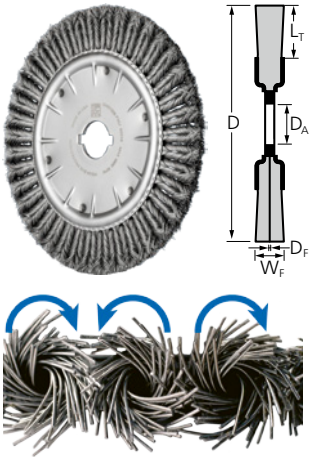
RBG, stationary

Aggressive and robust brush that is able to withstand high mechanical loads. Suitable for all heavy-duty stationary and automated brushing, e.g. deburring work.

Special features:
- Aggressive brushing effect due to the very stiff wire knots.
- Can be used with all commercially available stationary drive systems and bench grinders thanks to the variable hole diameter.

D [mm]	W_F [mm]	L_T [mm]	D_A [mm]	D_F [mm]	Knots	Opt. RPM	Max. RPM		Item no.	Designation
Steel wire (ST)										
200	16	44	50.8	0.50	34	4,000 – 6,500	8,500	1	43310015	RBG 20016/50,8 ST 0,50
250	16	41	50.8	0.35	54	2,000 – 3,400	4,500	1	43310510	RBG 25016/50,8 ST 0,35
				0.50	54	2,000 – 3,400	4,500	1	43310515	RBG 25016/50,8 ST 0,50

Wheel brushes
knotted, stationary



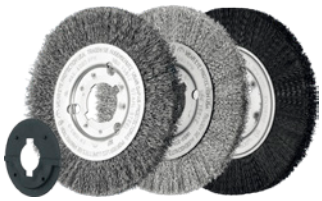
RBG, CT, COMBITWIST stationary

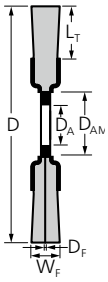
Aggressive and robust brush that is able to withstand high mechanical loads. Suitable for all heavy-duty stationary and automated brushing, e.g. deburring work. Suitable for work on corners and edges as the knots are less likely to unravel.

Special features:
- Maximum economic efficiency due to maximum tool life and stock removal rate. High level of comfort thanks to smooth running with no brush recoiling.
- Aggressive brushing effect due to the very stiff wire knots.
- Can be used with all commercially available stationary drive systems and bench grinders thanks to the variable hole diameter.

D [mm]	W_F [mm]	L_T [mm]	D_A [mm]	D_F [mm]	Knots	Opt. RPM	Max. RPM		Item no.	Designation
Steel wire (ST)										
350	20	56	50.8	0.50	80	700 – 3,000	3,600	1	79182019	RBG 35020/50,8 CT ST 0,50
380	20	67	50.8	0.50	80	700 – 3,000	3,600	1	79182020	RBG 38020/50,8 CT ST 0,50

crimped, with hole





RBU, slim

Excellent for medium-duty hand-held or automated brushing of workpieces with large surfaces.

Special features:
- Can be used with all commercially available stationary drive systems and bench grinders thanks to the variable hole diameter.
- The special design enables bunching to create wide gapless rollers. This enables a uniform surface finish to be achieved.
- Highly flexible, enabling optimal adjustment to the workpiece contour.

D [mm]	W_F [mm]	L_T [mm]	D_A [mm]	D_{AM} [mm]	Grit size	D_F [mm]	Opt. RPM	Max. RPM		Item no.	Designation
Steel wire (ST)											
100	12	24	14	-	-	0.15	4,000 – 6,000	8,000	2	43502005	RBU 10012/14,0 ST 0,15
						0.30	4,000 – 6,000	8,000	2	43502009	RBU 10012/14,0 ST 0,30
125	12	32	14	-	-	0.30	4,000 – 6,000	8,000	2	43503001	RBU 12512/14,0 ST 0,30
150	12	28	22.2	31.8	-	0.25	3,000 – 4,500	6,000	2	43505005	RBU 15012/22,2 ST 0,25
180	12	43	22.2	31.8	-	0.30	3,000 – 4,500	6,000	2	43505201	RBU 18012/22,2 ST 0,30
200	16	44	22.2	31.8	-	0.25	3,000 – 4,500	6,000	2	43506005	RBU 20016/22,2 ST 0,25
250	20	70	22.2	31.8	-	0.25	1,800 – 2,700	3,600	2	43506505	RBU 25020/22,2 ST 0,25
Stainless steel wire (INOX) – All INOX brushes are degreased.											
125	12	32	14	-	-	0.30	3,200 – 5,200	8,000	2	43503003	RBU 12512/14,0 INOX 0,30
150	12	28	22.2	31.8	-	0.30	2,400 – 3,900	6,000	2	43505006	RBU 15012/22,2 INOX 0,30
180	12	43	22.2	31.8	-	0.30	2,400 – 3,900	6,000	2	43505202	RBU 18012/22,2 INOX 0,30
200	16	44	22.2	31.8	-	0.30	2,400 – 3,900	6,000	2	43506010	RBU 20016/22,2 INOX 0,30
250	20	70	22.2	31.8	-	0.30	1,400 – 2,300	3,600	2	43506506	RBU 25020/22,2 INOX 0,30

Continued on next page

Wheel brushes
crimped, with hole

PFERD TOOLS

D [mm]	W_F [mm]	L_T [mm]	D_A [mm]	D_{AM} [mm]	Grit size	D_F [mm]	Opt. RPM	Max. RPM		Item no.	Designation
Silicon carbide (SiC) plastic filament											
100	12	22	12	-	80	1.10	3,200 – 5,200	8,000	2	43502012	RBU 10012/12,0 SiC 80 1,00
					180	0.90	3,200 – 5,200	8,000	2	43502004	RBU 10012/12,0 SiC 180 0,90
150	16	32	12	31.8	80	1.10	2,400 – 3,900	8,000	2	43505008	RBU 15016/12,0 SiC 80 1,00
					180	0.90	2,400 – 3,900	8,000	2	43505004	RBU 15016/12,0 SiC 180 0,90
200	16	32	22.2	31.8	80	1.10	1,800 – 2,900	4,500	2	43506007	RBU 20016/22,2 SiC 80 1,00
					180	0.90	1,800 – 2,900	4,500	2	43506004	RBU 20016/22,2 SiC 180 0,90
250	16	38	22.2	31.8	80	1.10	1,400 – 2,300	3,600	2	43506508	RBU 25016/22,2 SiC 80 1,00
					180	0.90	1,400 – 2,300	3,600	2	43506504	RBU 25016/22,2 SiC 180 0,90
Ceramic oxide grain (CO) plastic filament											
150	16	28	12	31.8	120	1.10	2,400 – 3,900	6,000	2	43505009	RBU 15016/12,0 CO 120 1,10
200	16	38	22.2	31.8	120	1.10	1,800 – 2,900	4,500	2	43506011	RBU 20016/22,2 CO 120 1,10
Nylon plastic filament											
100	12	22	12	-	-	0.40	3,200 – 5,200	8,000	2	43502027	RBU 10012/12,0 Nylon 0,40

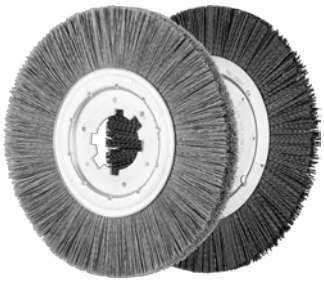
RBU, slim DIA

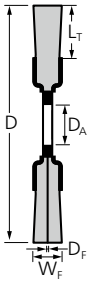
Brushes with diamond (DIA) filament material are suitable for applications that place particular demands on the aggressiveness of the brush. Excellent for hand-held or automated brushing of workpieces with large surfaces.

Special features:
- Can be used with all commercially available stationary drive systems and bench grinders thanks to the variable hole diameter.
- The special design enables bunching to create wide gapless rollers. This enables a uniform surface finish to be achieved.
- Highly flexible, enabling optimal adjustment to the workpiece contour.

D [mm]	W_F [mm]	L_T [mm]	D_A [mm]	Grit size	D_F [mm]	Opt. RPM	Max. RPM		Item no.	Designation
Diamond (DIA) plastic filament										
100	12	19	16	600	0.35	2,000 – 5,000	12,000	1	43317017	RBU 10012/16,0 DIA 600 0,35
150	13	28	31.8	600	0.35	1,000 – 3,500	6,000	1	79184323	RBU 15012/31,8 DIA 600 0,35
200	13	38	50.8	600	0.35	900 – 1,500	4,500	1	79184322	RBU 20012/50,8 DIA 600 0,35

Wheel brushes
crimped, with hole



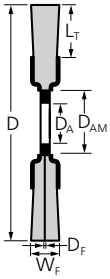


RBU, slim, stationary

Ideal for processing aluminium due to the longer trim length and higher degree of flexibility. Suitable for use on stationary machines, automated centres and robots.

Special features:
- The special design enables bunching to create wide gapless rollers. This enables a uniform surface finish to be achieved.
- Highly flexible, enabling optimal adjustment to the workpiece contour.

D [mm]	W_F [mm]	L_T [mm]	Grit size	D_F [mm]	Opt. RPM	Max. RPM		Item no.	Designation
Silicon carbide (SiC) plastic filament									
200	13	43	120	0.55	2,400 – 3,900	6,000	1	43505904	RBU 20013/50,8 SiC 120 0,55
			180	0.90	2,400 – 3,900	6,000	1	43505914	RBU 20013/50,8 SiC 180 0,90
			320	0.55	2,400 – 3,900	6,000	1	43505924	RBU 20013/50,8 SiC 320 0,55
250	15	55	120	0.55	1,400 – 2,300	3,600	1	43506514	RBU 25015/50,8 SiC 120 0,55
			180	0.90	1,400 – 2,300	3,600	1	43506524	RBU 25015/50,8 SiC 180 0,90
			320	0.55	1,400 – 2,300	3,600	1	43506534	RBU 25015/50,8 SiC 320 0,55
Ceramic oxide grain (CO) plastic filament									
200	13	46	120	1.10	2,400 – 3,900	6,000	1	43505930	RBU 20013/50,8 CO 120 1,10
250	15	63	120	1.10	1,400 – 2,300	3,600	1	43506540	RBU 25015/50,8 CO 120 1,10



RBU, wide, universal use

Excellent for medium-duty hand-held or automated brushing of workpieces with large surfaces. Developed for general use in the workshop.

Special features:
- Can be used with all commercially available stationary drive systems and bench grinders thanks to the variable hole diameter.
- Highly flexible, enabling optimal adjustment to the workpiece contour.

D [mm]	W_F [mm]	L_T [mm]	D_A [mm]	D_{AM} [mm]	Grit size	D_F [mm]	Opt. RPM	Max. RPM		Item no.	Designation
Steel wire (ST)											
80	20	20	10/12/14	20	-	0.15	5,000 – 7,500	10,000	1	43701103	POS RBU 8020/20 ST 0,15
						0.20	5,000 – 7,500	10,000	1	43701104	POS RBU 8020/20 ST 0,20
100	20	25	12/14/18/22.2/25.4	30	-	0.30	4,000 – 6,000	8,000	1	43701105	POS RBU 10020/14,0 ST 0,30
	28	25	12/14/18/22.2/25.4	30	-	0.30	4,000 – 6,000	8,000	1	43701109	POS RBU 10028/14,0 ST 0,30
125	20	30	12/14/18/22.2/25.4	30	-	0.30	3,000 – 4,500	6,000	1	43701115	POS RBU 12520/14,0 ST 0,30
	28	30	12/14/18/22.2/25.4	30	-	0.30	3,000 – 4,500	6,000	1	*43701119*	POS RBU 12528/14,0 ST 0,30
150	25	25	AK 32-2	50.8	-	0.20	3,000 – 4,500	6,000	1	43701205	POS RBU 15025/AK32-2 ST 0,20
						0.30	3,000 – 4,500	6,000	1	43701209	POS RBU 15025/AK32-2 ST 0,30

Continued on next page

Discontinued product

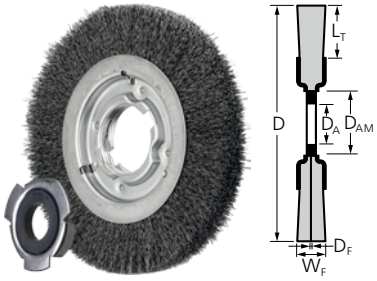
Wheel brushes
crimped, with hole

PFERD TOOLS

D [mm]	W_F [mm]	L_T [mm]	D_A [mm]	D_{AM} [mm]	Grit size	D_F [mm]	Opt. RPM	Max. RPM		Item no.	Designation
150	38	25	AK 32-2	50.8	-	0.20	3,000 – 4,500	6,000	1	43701213	POS RBU 15038/AK32-2 ST 0,20
						0.30	3,000 – 4,500	6,000	1	43701217	POS RBU 15038/AK32-2 ST 0,30
180	25	40	AK 32-2	50.8	-	0.20	3,000 – 4,500	6,000	1	43701235	POS RBU 18025/AK32-2 ST 0,20
						0.30	3,000 – 4,500	6,000	1	43701239	POS RBU 18025/AK32-2 ST 0,30
	38	40	AK 32-2	50.8	-	0.30	3,000 – 4,500	6,000	1	43701245	POS RBU 18038/AK32-2 ST 0,30
200	25	50	AK 32-2	50.8	-	0.20	2,300 – 3,400	4,500	1	43701255	POS RBU 20025/AK32-2 ST 0,20
						0.30	2,300 – 3,400	4,500	1	43701259	POS RBU 20025/AK32-2 ST 0,30
	38	50	AK 32-2	50.8	-	0.30	2,300 – 3,400	4,500	1	43701265	POS RBU 20038/AK32-2 ST 0,30
250	30	54	AK 32-2	50.8	-	0.20	1,400 – 2,300	3,600	1	43740130	POS RBU 25030/AK32-2 ST 0,20
						0.30	1,400 – 2,300	3,600	1	43740131	POS RBU 25030/AK32-2 ST 0,30
Stainless steel wire (INOX)											
80	20	20	10/12/14	20	-	0.15	4,000 – 6,500	10,000	1	43701107	POS RBU 8020/20 INOX 0,15
						0.20	4,000 – 6,500	10,000	1	43701108	POS RBU 8020/20 INOX 0,20
100	20	25	12/14/18/22.2/25.4	30	-	0.30	3,200 – 5,200	8,000	1	43701106	POS RBU 10020/14,0 INOX 0,30
	28	25	12/14/18/22.2/25.4	30	-	0.30	3,200 – 5,200	8,000	1	43701110	POS RBU 10028/14,0 INOX 0,30
125	20	30	12/14/18/22.2/25.4	30	-	0.30	2,400 – 3,900	6,000	1	43701116	POS RBU 12520/14,0 INOX 0,30
	28	30	12/14/18/22.2/25.4	30	-	0.30	2,400 – 3,900	6,000	1	*43701120*	POS RBU 12528/14,0 INOX 0,30
150	25	25	AK 32-2	50.8	-	0.20	2,400 – 3,900	6,000	1	43701206	POS RBU 15025/AK32-2 INOX 0,20
						0.30	2,400 – 3,900	6,000	1	43701210	POS RBU 15025/AK32-2 INOX 0,30
	38	25	AK 32-2	50.8	-	0.20	2,400 – 3,900	6,000	1	43701214	POS RBU 15038/AK32-2 INOX 0,20
						0.30	2,400 – 3,900	6,000	1	43701218	POS RBU 15038/AK32-2 INOX 0,30
180	25	40	AK 32-2	50.8	-	0.20	2,400 – 3,900	6,000	1	43701236	POS RBU 18025/AK32-2 INOX 0,20
						0.30	2,400 – 3,900	6,000	1	43701240	POS RBU 18025/AK32-2 INOX 0,30
	38	40	AK 32-2	50.8	-	0.30	2,400 – 3,900	6,000	1	43701246	POS RBU 18038/AK32-2 INOX 0,30
200	25	50	AK 32-2	50.8	-	0.20	1,800 – 2,900	4,500	1	43701256	POS RBU 20025/AK32-2 INOX 0,20
						0.30	1,800 – 2,900	4,500	1	43701260	POS RBU 20025/AK32-2 INOX 0,30
	38	50	AK 32-2	50.8	-	0.30	1,800 – 2,900	4,500	1	43701266	POS RBU 20038/AK32-2 INOX 0,30
250	30	54	AK 32-2	50.8	-	0.20	1,400 – 2,300	3,600	1	43740132	POS RBU 25030/AK32-2 INOX 0,20
						0.30	1,400 – 2,300	3,600	1	43740133	POS RBU 25030/AK32-2 INOX 0,30
Silicon carbide (SiC) plastic filament											
150	25	35	AK 32-2	50.8	120	0.55	2,400 – 3,900	6,000	1	43701181	POS RBU 15025/AK32-2 SiC 120 0,55
						1.10	2,400 – 3,900	6,000	1	43701182	POS RBU 15025/AK32-2 SiC 120 1,10
					320	0.55	2,400 – 3,900	6,000	1	43701183	POS RBU 15025/AK32-2 SiC 320 0,55
200	25	50	AK 32-2	50.8	120	1.10	2,400 – 3,900	6,000	1	43701257	POS RBU 20025/AK32-2 SiC 120 1,10
250	30	54	AK 32-2	50.8	120	1.10	1,400 – 2,300	3,600	1	43740134	POS RBU 25030/AK32-2 SiC 120 1,10

Discontinued product

Wheel brushes
crimped, with hole



RBU, wide, industrial use

Excellent for medium-duty hand-held or automated brushing of workpieces with large surfaces. Developed specially for industrial use. The brush impresses with its very long tool life, which ensures high economic efficiency.

Special features:

- Can be used with all commercially available stationary drive systems and bench grinders thanks to the variable hole diameter.
- The special design enables bunching to create wide gapless rollers. This enables a uniform surface finish to be achieved.
- Highly flexible, enabling optimal adjustment to the workpiece contour.

D [mm]	W_F [mm]	L_T [mm]	D_A [mm]	D_{AM} [mm]	D_F [mm]	Opt. RPM	Max. RPM		Item no.	Designation
Steel wire (ST)										
100	20	19	14.0/18.0/22.2	25.4	0.30	4,000 – 6,000	8,000	1	*43502101*	RBU 10020/14,0 ST 0,30
	28	19	14.0/18.0/22.2	25.4	0.30	4,000 – 6,000	8,000	1	*43502001*	RBU 10028/14,0 ST 0,30
150	25	25	AK 32-2	50.8	0.30	3,000 – 4,500	6,000	1	43505101	RBU 15025/AK32-2 ST 0,30
	38	25	AK 32-2	50.8	0.30	3,000 – 4,500	6,000	1	43505001	RBU 15038/AK32-2 ST 0,30
180	25	40	AK 32-2	50.8	0.30	3,000 – 4,500	6,000	1	43505210	RBU 18025/AK32-2 ST 0,30
200	25	38	AK 32-2	50.8	0.30	2,300 – 3,400	4,500	1	43506101	RBU 20025/AK32-2 ST 0,30
	38	38	AK 32-2	50.8	0.30	2,300 – 3,400	4,500	1	43506001	RBU 20038/AK32-2 ST 0,30
250	30	50	AK 32-2	50.8	0.30	1,800 – 2,700	3,600	1	43506601	RBU 25030/AK32-2 ST 0,30
	48	50	AK 32-2	50.8	0.30	1,800 – 2,700	3,600	1	43506501	RBU 25048/AK32-2 ST 0,30
300	40	40	50.8	117.5	0.30	1,500 – 2,500	3,000	1	43507027	RBU 30040/50,8 ST 0,30
Stainless steel wire (INOX) – All INOX brushes are degreased.										
150	25	25	AK 32-2	50.8	0.30	2,400 – 3,900	6,000	1	43505102	RBU 15025/AK32-2 INOX 0,30
	38	25	AK 32-2	50.8	0.30	2,400 – 3,900	6,000	1	43505003	RBU 15038/AK32-2 INOX 0,30
180	25	40	AK 32-2	50.8	0.30	2,400 – 3,900	6,000	1	43505212	RBU 18025/AK32-2 INOX 0,30
200	25	38	AK 32-2	50.8	0.30	1,800 – 2,900	4,500	1	43506102	RBU 20025/AK32-2 INOX 0,30
	38	38	AK 32-2	50.8	0.30	1,800 – 2,900	4,500	1	43506003	RBU 20038/AK32-2 INOX 0,30
250	30	50	AK 32-2	50.8	0.30	1,400 – 2,300	3,600	1	43506603	RBU 25030/AK32-2 INOX 0,30
	48	50	AK 32-2	50.8	0.30	1,400 – 2,300	3,600	1	43506503	RBU 25048/AK32-2 INOX 0,30

Discontinued product

Wheel brushes
crimped, with hole

RBU, deburring brushes

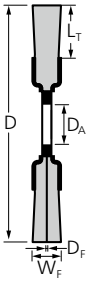
Particularly suitable for deburring pipes, cut edges and small parts on stationary machines.

Special features:
- Individual check for imbalance guarantees smooth running.
- Maximum tool life thanks to high filament density.
- Highly flexible, enabling optimal adjustment to the workpiece contour.

D [mm]	W_F [mm]	L_T [mm]	D_A [mm]	D_{AM} [mm]	Grit size	D_F [mm]	Opt. RPM	Max. RPM		Item no.	Designation
Steel wire (ST)											
250	60	50	50.8	100	-	0.20	1,800 – 2,700	3,600	1	*43506701*	RBU 25060/50,8 ST 0,20
						0.35	1,800 – 2,700	3,600	1	43506711	RBU 25060/50,8 ST 0,35
						0.50	1,800 – 2,700	3,600	1	43506721	RBU 25060/50,8 ST 0,50
	80	50	50.8	100	-	0.35	1,800 – 2,700	3,600	1	43506741	RBU 25080/50,8 ST 0,35
	100	50	50.8	100	-	0.35	1,800 – 2,700	3,600	1	43506811	RBU 250100/50,8 ST 0,35
						0.50	1,800 – 2,700	3,600	1	43506821	RBU 250100/50,8 ST 0,50
Brass-plated steel cord wire (LIT STM)											
250	60	50	50.8	100	-	0.35	1,800 – 2,700	3,600	1	43506716	RBU 25060/50,8 LIT ST 0,35
Stainless steel wire (INOX)											
250	60	50	50.8	100	-	0.20	1,400 – 2,300	3,600	1	43506702	RBU 25060/50,8 INOX 0,20
						0.35	1,400 – 2,300	3,600	1	43506712	RBU 25060/50,8 INOX 0,35
						0.50	1,400 – 2,300	3,600	1	43506722	RBU 25060/50,8 INOX 0,50
	100	50	50.8	100	-	0.35	1,400 – 2,300	3,600	1	43506812	RBU 250100/50,8 INOX 0,35
Silicon carbide (SiC) plastic filament											
250	60	45	50.8	100	120	1.10	1,400 – 2,300	3,600	1	43506724	RBU 25060/50,8 SiC 120 1,10

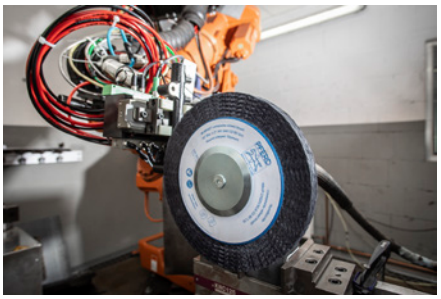
Discontinued product

Composite brushes
Wheel brushes, crimped



RBUP

Particularly aggressive brush. Its plastic filament makes this product particularly suitable for deburring complicated components such as cylinder heads or gear toothing, as well as for working on surfaces. Developed specially for industrial use.



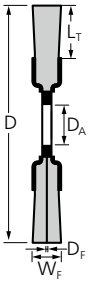
Special features:

- Long tool life and aggressive brushing effect due to a very high filament density.
- Extremely smooth operation due to even distribution of the filament material.

D [mm]	W_F [mm]	L_T [mm]	D_A [mm]	Grit size	D_F [mm]	Opt. RPM	Max. RPM		Item no.	Designation
Silicon carbide (SiC) plastic filament										
150	25	32	50.8	80	1.10	900 – 1,500	3,600	1	79183720	RBUP 15025/50,8 SiC 80 1,10
					1.14	900 – 1,500	3,600	1	*79183721*	RBUP 15025/50,8 REC SiC 80 1,14
				120	1.10	900 – 1,500	3,600	1	79183722	RBUP 15025/50,8 SiC 120 1,10
				320	0.55	900 – 1,500	3,600	1	*79183723*	RBUP 15025/50,8 SiC 320 0,55
200	25	32	50.8	80	1.10	900 – 1,500	3,600	1	79183726	RBUP 20025/50,8 SiC 80 1,10
				120	1.10	900 – 1,500	3,600	1	79183728	RBUP 20025/50,8 SiC 120 1,10
				320	0.55	900 – 1,500	3,600	1	79183729	RBUP 20025/50,8 SiC 320 0,55
250	25	38	50.8	80	1.10	900 – 1,500	3,600	1	*79183738*	RBUP 25025/50,8 SiC 80 1,10
				120	0.55	900 – 1,500	3,600	1	*79183742*	RBUP 25025/50,8 SiC 120 0,55
					1.10	900 – 1,500	3,600	1	79183740	RBUP 25025/50,8 SiC 120 1,10
				320	0.55	900 – 1,500	3,600	1	*79183741*	RBUP 25025/50,8 SiC 320 0,55
Ceramic oxide grain (CO) plastic filament										
150	13	32	50.8	80	1.10	900 – 1,500	3,600	1	79184118	RBUP 15013/50,8 CO 80 1,10
				120	1.10	900 – 1,500	3,600	1	*79184119*	RBUP 15013/50,8 CO 120 1,10
	25	32	50.8	80	1.10	900 – 1,500	3,600	1	79184165	RBUP 15025/50,8 CO 80 1,10
200	13	32	50.8	80	1.10	900 – 1,500	3,600	1	*79184127*	RBUP 20013/50,8 CO 80 1,10
				120	1.10	900 – 1,500	3,600	1	*79184132*	RBUP 20013/50,8 CO 120 1,10
	25	32	50.8	80	1.10	900 – 1,500	3,600	1	79184169	RBUP 20025/50,8 CO 80 1,10
250	25	38	50.8	80	1.10	500 – 800	1,800	1	79184173	RBUP 25025/50,8 CO 80 1,10

Discontinued product

Composite brushes
Wheel brushes, crimped



RBUP, FLEX

Particularly flexible brush. Its plastic filament makes this product particularly suitable for deburring complicated components such as cylinder heads or gear toothing. Developed specially for industrial use.

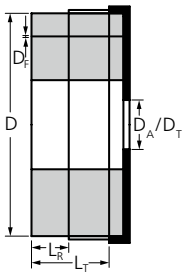
Special features:

- Long tool life and aggressive brushing effect due to a very high filament density.
- Extremely smooth operation due to even distribution of the filament material.
- Highly flexible, enabling optimal adjustment to the workpiece contour and less heat build-up.

D [mm]	W_F [mm]	L_T [mm]	D_A [mm]	Grit size	D_F [mm]	Opt. RPM	Max. RPM		Item no.	Designation
Silicon carbide (SiC) plastic filament										
200	25	57	50.8	80	1.10	900 – 1,500	3,600	1	*79183732*	RBUP 20025/50,8 SiC 80 1,10 FLEX
					1.14	900 – 1,500	3,600	1	*79183733*	RBUP 20025/50,8 REC SiC 80 1,14 FLEX
				120	1.10	900 – 1,500	3,600	1	*79183734*	RBUP 20025/50,8 SiC 120 1,10 FLEX
				320	0.55	900 – 1,500	3,600	1	*79183735*	RBUP 20025/50,8 SiC 320 0,55 FLEX
250	25	83	50.8	80	1.10	900 – 1,500	3,600	1	*79183744*	RBUP 25025/50,8 SiC 80 1,10 FLEX
					1.14	900 – 1,500	3,600	1	79183745	RBUP 25025/50,8 REC SiC 80 1,14 FLEX
				120	1.10	900 – 1,500	3,600	1	*79183746*	RBUP 25025/50,8 SiC 120 1,10 FLEX
		70	50.8	180	0.90	900 – 1,500	3,600	1	*79183657*	RBUP 25025/50,8 SiC 180 0,90 FLEX
		83	50.8	320	0.55	900 – 1,500	3,600	1	*79183747*	RBUP 25025/50,8 SiC 320 0,55 FLEX
300	13	60	50.8	320	0.55	500 – 800	1,800	1	*79184150*	RBUP 30013/50,8 SiC 320 0,55 FLEX
	25	60	50.8	80	1.10	500 – 800	1,800	1	*79183659*	RBUP 30025/50,8 SiC 80 1,10 FLEX
				120	1.10	500 – 800	1,800	1	*79183660*	RBUP 30025/50,8 SiC 120 1,10 FLEX
				180	0.90	500 – 800	1,800	1	*79183661*	RBUP 30025/50,8 SiC 180 0,90 FLEX
350	25	89	50.8	80	1.10	500 – 800	1,800	1	*79183663*	RBUP 35025/50,8 SiC 80 1,10 FLEX
				180	0.90	500 – 800	1,800	1	*79183665*	RBUP 35025/50,8 SiC 180 0,90 FLEX
Ceramic oxide grain (CO) plastic filament										
200	13	57	50.8	80	1.10	900 – 1,500	3,600	1	*79184124*	RBUP 20013/50,8 CO 80 1,10 FLEX
				120	1.10	900 – 1,500	3,600	1	*79184126*	RBUP 20013/50,8 CO 120 1,10 FLEX
250	13	70	50.8	80	1.10	900 – 1,500	3,600	1	*79184133*	RBUP 25013/50,8 CO 80 1,10 FLEX
				120	0.55	900 – 1,500	3,600	1	*79184138*	RBUP 25013/50,8 CO 120 0,55 FLEX
					1.10	900 – 1,500	3,600	1	*79184139*	RBUP 25013/50,8 CO 120 1,10 FLEX
300	13	60	50.8	80	1.10	500 – 800	1,800	1	*79184144*	RBUP 30013/50,8 CO 80 1,10 FLEX
				120	1.10	500 – 800	1,800	1	*79184145*	RBUP 30013/50,8 CO 120 1,10 FLEX
	25	60	50.8	80	1.10	500 – 800	1,800	1	79184189	RBUP 30025/50,8 CO 80 1,10 FLEX
				120	1.10	500 – 800	1,800	1	*79184190*	RBUP 30025/50,8 CO 120 1,10 FLEX
350	13	89	50.8	80	1.10	500 – 800	1,800	1	*79184151*	RBUP 35013/50,8 CO 80 1,10 FLEX
				120	1.10	500 – 800	1,800	1	*79184152*	RBUP 35013/50,8 CO 120 1,10 FLEX
	25	89	50.8	80	1.10	500 – 800	1,800	1	*79184193*	RBUP 35025/50,8 CO 80 1,10 FLEX
				120	1.10	500 – 800	1,800	1	*79184194*	RBUP 35025/50,8 CO 120 1,10 FLEX

Discontinued product

Composite brushes
Composite disc brushes, crimped



DBUR, with bridle

Particularly aggressive brush. Particularly suitable for deburring and work on surfaces on stationary machines. The bridle prevents the filament spreading out sideways. The bridle enables the spreading out and flexibility of the brush filament to be controlled.

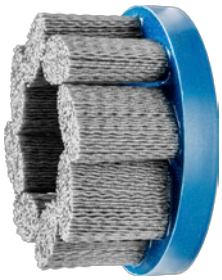
Special features:

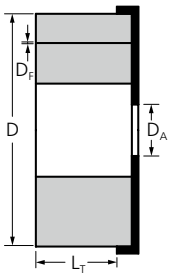
- Long tool life and aggressive brushing effect due to a very high filament density.
- Extremely smooth operation due to even distribution of the filament material.
- If the filament has worn away down to the bridle, it can be removed from the bridle for further use. This does not affect the brushing behaviour.

D [mm]	L_R [mm]	L_T [mm]	D_A / D_T	Grit size	D_F [mm]	Opt. RPM	Max. RPM		Item no.	Designation
Silicon carbide (SiC) plastic filament										
75	19	38	22.2	80	1.10	2,400 – 3,900	4,500	1	79184120	DBUR 75/22,2 SiC 80 1,10
					1.14	2,400 – 3,900	4,500	1	79184121	DBUR 75/22,2 REC SiC 80 1,14
				120	1.10	2,400 – 3,900	4,500	1	79184122	DBUR 75/22,2 SiC 120 1,10
				320	0.55	2,400 – 3,900	4,500	1	*79184125*	DBUR 75/22,2 SiC 320 0,55
			M14x2	80	1.10	2,400 – 3,900	6,000	1	43400004	DBUR 75/M14 SiC 80 1,10
					1.14	2,400 – 3,900	6,000	1	*43400003*	DBUR 75/M14 REC SiC 80 1,14
100	19	38	22.2	80	1.10	1,400 – 2,300	3,500	1	79184128	DBUR 100/22,2 SiC 80 1,10
					1.14	1,400 – 2,300	3,500	1	79184129	DBUR 100/22,2 REC SiC 80 1,14
				120	1.10	1,400 – 2,300	3,500	1	79184130	DBUR 100/22,2 SiC 120 1,10
				320	0.55	1,400 – 2,300	3,500	1	79184131	DBUR 100/22,2 SiC 320 0,55
125	19	38	22.2	80	1.10	1,200 – 2,000	3,000	1	79184134	DBUR 125/22,2 SiC 80 1,10
					1.14	1,200 – 2,000	3,000	1	79184135	DBUR 125/22,2 REC SiC 80 1,14
				120	1.10	1,200 – 2,000	3,000	1	79184136	DBUR 125/22,2 SiC 120 1,10
150	19	38	22.2	80	1.10	1,000 – 1,600	2,500	1	79184140	DBUR 150/22,2 SiC 80 1,10
					1.14	1,000 – 1,600	2,500	1	79184141	DBUR 150/22,2 REC SiC 80 1,14
				120	1.10	1,000 – 1,600	2,500	1	*79184142*	DBUR 150/22,2 SiC 120 1,10
Ceramic oxide grain (CO) plastic filament										
75	19	38	22.2	120	1.10	2,400 – 3,900	4,500	1	79184232	DBUR 75/22,2 CO 120 1,10
100	19	38	22.2	120	1.10	1,400 – 2,300	3,500	1	79184237	DBUR 100/22,2 CO 120 1,10
125	19	38	22.2	120	1.10	1,200 – 2,000	3,000	1	43400030	DBUR 125/22,2 CO 120 1,10
150	19	38	22.2	120	1.10	1,000 – 1,600	2,500	1	43400040	DBUR 150/22,2 CO 120 1,10

Discontinued product

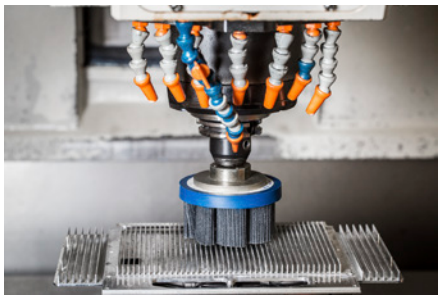
Composite brushes
Composite disc brushes, crimped





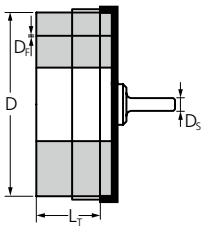
DBU, FLEX

Particularly flexible brush. Particularly suitable for deburring and work on surfaces on stationary machines.



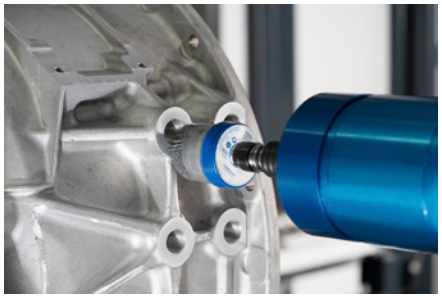
Special features:
- Long tool life and aggressive brushing effect due to a very high filament density.
- Extremely smooth operation due to even distribution of the filament material.
- Special arrangement of the filament enables optimal adjustment to the workpiece contour, less heat build-up and more efficient use of the coolant.

D [mm]	L_T [mm]	D_A [mm]	Grit size	D_F [mm]	Opt. RPM	Max. RPM		Item no.	Designation
Silicon carbide (SiC) plastic filament									
75	38	22.2	80	1.10	2,400 – 3,900	4,500	1	79183941	DBU 75/22,2 SiC 80 1,10 FLEX
				1.14	2,400 – 3,900	4,500	1	79183966	DBU 75/22,2 REC SiC 80 1,14 FLEX
			120	1.10	2,400 – 3,900	4,500	1	*79183942*	DBU 75/22,2 SiC 120 1,10 FLEX
			320	0.55	2,400 – 3,900	4,500	1	*79183944*	DBU 75/22,2 SiC 320 0,55 FLEX
100	38	22.2	80	1.10	1,400 – 2,300	3,500	1	*79183945*	DBU 100/22,2 SiC 80 1,10 FLEX
				1.14	1,400 – 2,300	3,500	1	79183968	DBU 100/22,2 REC SiC 80 1,14 FLEX
			120	1.10	1,400 – 2,300	3,500	1	79183946	DBU 100/22,2 SiC 120 1,10 FLEX
			320	0.55	1,400 – 2,300	3,500	1	79183948	DBU 100/22,2 SiC 320 0,55 FLEX
150	38	22.2	80	1.10	1,000 – 1,600	2,500	1	*79183949*	DBU 150/22,2 SiC 80 1,10 FLEX
				1.14	1,000 – 1,600	2,500	1	*79183970*	DBU 150/22,2 REC SiC 80 1,14 FLEX
			120	1.10	1,000 – 1,600	2,500	1	*79183950*	DBU 150/22,2 SiC 120 1,10 FLEX
			320	0.55	1,000 – 1,600	2,500	1	*79183952*	DBU 150/22,2 SiC 320 0,55 FLEX



DBUR shank-mounted, with bridle

Particularly aggressive brush. Particularly suitable for deburring and work on surfaces on stationary machines. The bridle prevents the filament spreading out sideways. The bridle enables the spreading out and flexibility of the brush filament to be controlled.



Special features:
- Long tool life and aggressive brushing effect due to a very high filament density.
- Extremely smooth operation due to even distribution of the filament material.
- If the filament has worn away down to the bridle, it can be removed from the bridle for further use. This does not affect the brushing behaviour.

D [mm]	D_S [mm]	L_R [mm]	L_T [mm]	H [mm]	Grit size	D_F [mm]	Opt. RPM	Max. RPM		Item no.	Designation
Silicon carbide (SiC) plastic filament											
50	6	19	38	80	120	0.55	1,500 – 3,500	5,000	1	43400041	DBUR 50/6 SiC 120 0,55
						1.10	1,500 – 3,500	5,000	1	43400042	DBUR 50/6 SiC 120 1,00
63	6	19	38	80	120	0.55	1,500 – 3,500	5,000	1	43400043	DBUR 63/6 SiC 120 0,55
						1.10	1,500 – 3,500	5,000	1	43400044	DBUR 63/6 SiC 120 1,00

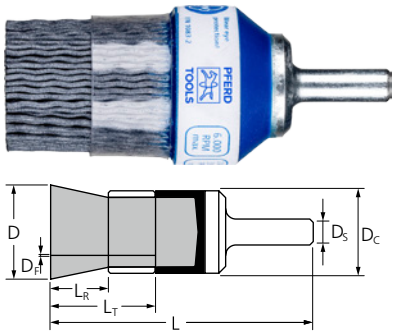
Continued on next page

Discontinued product

Composite brushes
Composite disc brushes, crimped

D [mm]	D_S [mm]	L_R [mm]	L_T [mm]	H [mm]	Grit size	D_F [mm]	Opt. RPM	Max. RPM		Item no.	Designation
Ceramic oxide grain (CO) plastic filament											
50	6	19	38	80	120	1.10	1,500 – 3,500	5,000	1	43400045	DBUR 50/6 CO 120 1,10
63	6	19	38	80	120	1.10	1,500 – 3,500	5,000	1	43400046	DBUR 63/6 CO 120 1,10

Shank-mounted end brushes, crimped



PBUPR, with bridle

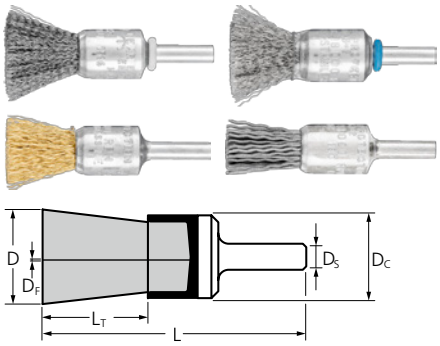
Particularly suitable for deburring and work on surfaces on stationary machines. The bridle prevents the wires spreading out sideways. The bridle enables the spreading out and flexibility of the brush filament to be controlled.

Special features:

- Long tool life and aggressive brushing effect due to a very high filament density. Extremely smooth operation due to even distribution of the filament material.
- Optimal access to hard-to-reach areas such as drilled holes and cavities as the filament spreads out upon rotation.
- If the filament has worn away down to the bridle, it can be removed from the bridle for further use. This does not affect the brushing behaviour.

D [mm]	D_C [mm]	D_S [mm]	L_R [mm]	L_T [mm]	L [mm]	Grit size	D_F [mm]	Opt. RPM	Max. RPM		Item no.	Designation
Silicon carbide (SiC) plastic filament												
25	28	6	13	25	70	120	0.55	2,400 – 3,900	6,000	1	43214121	PBUPR 2528/6 SiC 120 0,55
							1.10	2,400 – 3,900	6,000	1	43214122	PBUPR 2528/6 SiC 120 1,00
38	38	6	13	25	77	120	0.55	2,000 – 3,200	5,000	1	43214131	PBUPR 3838/6 SiC 120 0,55
							1.10	2,000 – 3,200	5,000	1	43214132	PBUPR 3838/6 SiC 120 1,00
Ceramic oxide grain (CO) plastic filament												
25	28	6	13	25	70	120	1.10	2,400 – 3,900	6,000	1	43214111	PBUPR 2528/6 CO 120 1,00
38	38	6	13	25	77	120	1.10	2,000 – 3,200	5,000	1	43214112	PBUPR 3838/6 CO 120 1,00

Shank-mounted end brushes
crimped



PBU

Suitable for light brushing such as deburring, cleaning and derusting.

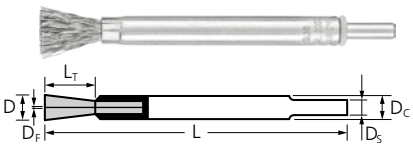
Special features:
- Optimal access to hard-to-reach areas such as drilled holes and cavities as the wires spread out upon rotation.
- Creates fine surfaces.

D [mm]	D_C [mm]	D_S [mm]	L_T [mm]	Grit size	D_F [mm]	L [mm]	Opt. RPM	Max. RPM		Item no.	Designation
Steel wire (ST)											
10	10	6	20	-	0.20	65	10,000 – 15,000	20,000	10	43204005	PBU 1010/6 ST 0,20
					0.35	65	10,000 – 15,000	20,000	10	43204001	PBU 1010/6 ST 0,35
13	12	6	20	-	0.20	65	10,000 – 15,000	20,000	10	43204105	PBU 1312/6 ST 0,20
					0.35	65	10,000 – 15,000	20,000	10	43204101	PBU 1312/6 ST 0,35
15	16	6	22	-	0.20	65	9,000 – 13,500	18,000	10	43203005	PBU 1516/6 ST 0,20
					0.35	65	9,000 – 13,500	18,000	10	43203001	PBU 1516/6 ST 0,35
										43704001	POS PBU 1516/6 ST 0,35
20	22	6	25	-	0.20	70	9,000 – 13,500	18,000	10	43202005	PBU 2022/6 ST 0,20
										43704013	POS PBU 2022/6 ST 0,20
					0.50	70	9,000 – 13,500	18,000	10	43202001	PBU 2022/6 ST 0,50
										43704005	POS PBU 2022/6 ST 0,50
30	29	6	25	-	0.20	70	7,500 – 11,300	15,000	10	43201005	PBU 3029/6 ST 0,20
					0.50	70	7,500 – 11,300	15,000	10	43201001	PBU 3029/6 ST 0,50
Stainless steel wire (INOX) – Supplied with plastic-covered brush body. All INOX brushes are degreased.											
10	10	6	20	-	0.15	65	8,000 – 13,000	20,000	10	43204010	PBU 1010/6 INOX 0,15
					0.20	65	8,000 – 13,000	20,000	10	43204007	PBU 1010/6 INOX 0,20
					0.35	65	8,000 – 13,000	20,000	10	43204003	PBU 1010/6 INOX 0,35
13	12	6	20	-	0.15	65	8,000 – 13,000	20,000	10	43204109	PBU 1312/6 INOX 0,15
					0.20	65	8,000 – 13,000	20,000	10	43204107	PBU 1312/6 INOX 0,20
					0.35	65	8,000 – 13,000	20,000	10	43204103	PBU 1312/6 INOX 0,35
15	16	6	22	-	0.15	65	7,200 – 11,700	18,000	10	43203011	PBU 1516/6 INOX 0,15
					0.20	65	7,200 – 11,700	18,000	10	43203007	PBU 1516/6 INOX 0,20
										43704014	POS PBU 1516/6 INOX 0,20
					0.35	65	7,200 – 11,700	18,000	10	43203003	PBU 1516/6 INOX 0,35
										43704002	POS PBU 1516/6 INOX 0,35
20	22	6	25	-	0.15	70	7,200 – 11,700	18,000	10	43202011	PBU 2022/6 INOX 0,15
					0.20	70	7,200 – 11,700	18,000	10	43202007	PBU 2022/6 INOX 0,20
										43704015	POS PBU 2022/6 INOX 0,20
					0.50	70	7,200 – 11,700	18,000	10	43202003	PBU 2022/6 INOX 0,50
										43704006	POS PBU 2022/6 INOX 0,50
30	29	6	25	-	0.15	70	6,000 – 9,800	15,000	10	43201011	PBU 3029/6 INOX 0,15
					0.20	70	6,000 – 9,800	15,000	10	43201007	PBU 3029/6 INOX 0,20
					0.50	70	6,000 – 9,800	15,000	10	43201003	PBU 3029/6 INOX 0,50
Brass wire (MES)											
10	10	6	20	-	0.30	65	8,000 – 13,000	20,000	10	43204002	PBU 1010/6 MES 0,30
13	12	6	20	-	0.30	65	8,000 – 13,000	20,000	10	43204102	PBU 1312/6 MES 0,30
15	16	6	22	-	0.30	65	7,200 – 11,700	18,000	10	43203002	PBU 1516/6 MES 0,30

Continued on next page

Shank-mounted end brushes
crimped

D [mm]	D_C [mm]	D_S [mm]	L_T [mm]	Grit size	D_F [mm]	L [mm]	Opt. RPM	Max. RPM		Item no.	Designation
20	22	6	25	-	0.50	70	7,200 – 11,700	18,000	10	43202002	PBU 2022/6 MES 0,50
30	29	6	25	-	0.50	70	6,000 – 9,800	15,000	10	43201002	PBU 3029/6 MES 0,50
Silicon carbide (SiC) plastic filament											
10	10	6	20	180	0.90	65	8,000 – 13,000	20,000	10	43204004	PBU 1010/6 SiC 180 0,90
13	12	6	20	180	0.90	65	8,000 – 13,000	20,000	10	43204104	PBU 1312/6 SiC 180 0,90
15	16	6	22	180	0.90	65	7,200 – 11,700	18,000	10	43203004	PBU 1516/6 SiC 180 0,90
20	22	6	25	180	0.90	70	7,200 – 11,700	18,000	10	43202004	PBU 2022/6 SiC 180 0,90
										43704008	POS PBU 2022/6 SiC 180 0,90
30	29	6	25	180	0.90	70	6,000 – 9,800	15,000	10	43201004	PBU 3029/6 SiC 180 0,90

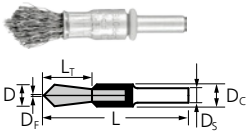


PBUL, long

Suitable for light brushing such as deburring, cleaning and derusting. Particularly long version to access deep areas.

Special features:
- Optimal access to hard-to-reach areas.
- Creates fine surfaces.

D [mm]	D_C [mm]	D_S [mm]	L_T [mm]	D_F [mm]	L [mm]	Opt. RPM	Max. RPM		Item no.	Designation
Steel wire (ST)										
10	10	6	20	0.20	120	4,000 – 9,500	20,000	10	43216001	PBUL 1010/6 ST 0,20
				0.30	120	4,000 – 9,500	20,000	10	43216002	PBUL 1010/6 ST 0,30
Stainless steel wire (INOX) – Supplied with plastic-covered brush body. All INOX brushes are degreased.										
10	10	6	20	0.20	120	3,500 – 9,000	20,000	10	43216005	PBUL 1010/6 INOX 0,20
				0.30	120	3,500 – 9,000	20,000	10	43216006	PBUL 1010/6 INOX 0,30



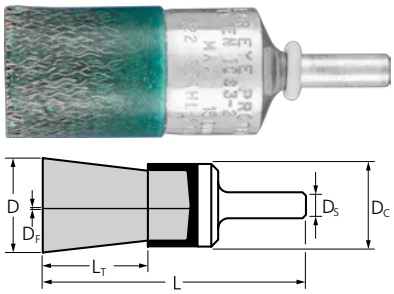
PBUS, pointed

Suitable for light brushing such as deburring, cleaning and derusting. Tapered tip for superb accuracy.

Special features:
- Optimal access to hard-to-reach areas.
- Creates fine surfaces.

D [mm]	D_C [mm]	D_S [mm]	L_T [mm]	D_F [mm]	L [mm]	Opt. RPM	Max. RPM		Item no.	Designation
Steel wire (ST)										
10	10	6	20	0.30	60	10,000 – 15,000	20,000	10	43217002	PBUS 1010/6 ST 0,30
Stainless steel wire (INOX) – Supplied with plastic-covered brush body. All INOX brushes are degreased.										
10	10	6	20	0.30	60	8,000 – 13,000	20,000	10	43217006	PBUS 1010/6 INOX 0,30

Shank-mounted end brushes
crimped

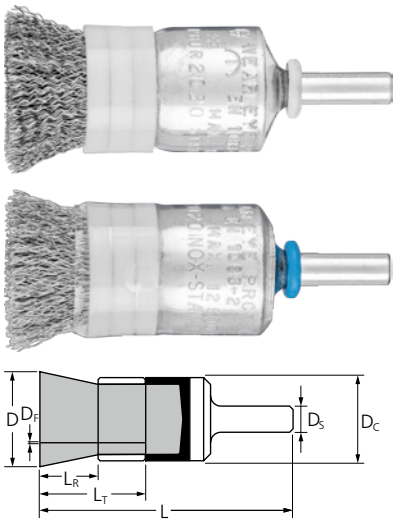


PBV, encapsulated

Particularly aggressive brushing effect for heavy-duty brushing.

Special features:
- Focused working thanks to high dimensional stability.
- Maximum tool life as premature wire breakage is prevented.

D [mm]	D_C [mm]	D_S [mm]	L_T [mm]	D_F [mm]	L [mm]	Opt. RPM	Max. RPM		Item no.	Designation
Steel wire (ST)										
22	22	6	25	0.25	70	6,500 – 9,800	13,000	10	43208001	PBV 2222/6 ST 0,25
30	29	6	25	0.35	70	6,500 – 9,800	13,000	10	43208005	PBV 3029/6 ST 0,35



PBUR, with bridle

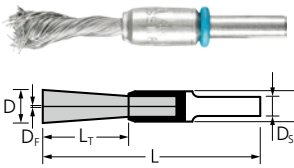
Suitable for light brushing such as deburring, cleaning and derusting. The bridle prevents the wires spreading out sideways. The bridle enables the spreading out and flexibility of the brush filament to be strictly controlled.

- If the filament has worn away down to the bridle, it can be removed from the bridle for further use. This does not affect the brushing behaviour.
- Creates fine surfaces.

Special features:
- Optimal access to hard-to-reach areas such as recesses and drilled holes.

D [mm]	D_C [mm]	D_S [mm]	L_R [mm]	L_T [mm]	L [mm]	D_F [mm]	Opt. RPM	Max. RPM		Item no.	Designation
Steel wire (ST)											
13	16	6	13	25	70	0.20	7,500 – 11,300	15,000	10	43212001	PBUR 1316/6 ST 0,20
						0.35	7,500 – 11,300	15,000	10	43215001	PBUR 1316/6 ST 0,35
20	22	6	13	25	70	0.20	6,300 – 9,400	12,500	10	43213001	PBUR 2022/6 ST 0,20
						0.35	6,300 – 9,400	12,500	10	43213002	PBUR 2022/6 ST 0,35
25	30	6	13	25	70	0.20	6,300 – 9,400	12,500	10	43214001	PBUR 2530/6 ST 0,20
						0.35	6,300 – 9,400	12,500	10	43214002	PBUR 2530/6 ST 0,35
Stainless steel wire (INOX) – Supplied with plastic-covered brush body. All INOX brushes are degreased.											
13	16	6	13	25	70	0.20	6,000 – 9,800	15,000	10	43212003	PBUR 1316/6 INOX 0,20
20	22	6	13	25	70	0.20	5,000 – 8,100	12,500	10	43213004	PBUR 2022/6 INOX 0,20
25	30	6	13	25	70	0.20	5,000 – 8,100	12,500	10	43214004	PBUR 2530/6 INOX 0,20

Shank-mounted end brushes
knotted

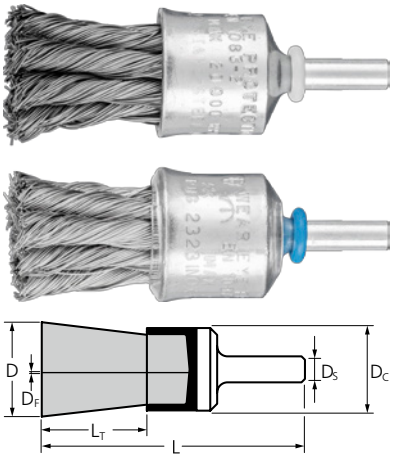


PBGS, SINGLETWIST

Particularly flexible single-knot brush for special applications.

Special features:
- Optimal access to hard-to-reach areas such as inside corners, as the knot is less likely to unravel.

D [mm]	D_C [mm]	D_S [mm]	L_T [mm]	L [mm]	D_F [mm]	Opt. RPM	Max. RPM		Item no.	Designation
Steel wire (ST)										
10	10	6	25	65	0.20	5,000 – 7,500	10,000	10	43218001	PBGS 1010/6 ST 0,20
					0.35	5,000 – 7,500	10,000	10	43218002	PBGS 1010/6 ST 0,35
					0.50	5,000 – 7,500	10,000	10	43218003	PBGS 1010/6 ST 0,50
12	10	6	28	71	0.20	5,000 – 7,500	10,000	10	43218011	PBGS 1210/6 ST 0,20
Stainless steel wire (INOX) – Supplied with plastic-covered brush body. All INOX brushes are degreased.										
10	10	6	25	65	0.20	4,000 – 6,500	10,000	10	43218005	PBGS 1010/6 INOX 0,20
					0.35	4,000 – 6,500	10,000	10	43218006	PBGS 1010/6 INOX 0,35
					0.50	4,000 – 6,500	10,000	10	43218007	PBGS 1010/6 INOX 0,50
12	10	6	28	71	0.20	4,000 – 6,500	10,000	10	43218015	PBGS 1210/6 INOX 0,20



PBG

Aggressive brush. Suitable for medium-duty brushing such as deburring, cleaning, derusting and descaling, as well as removing spatter.

Special features:
- Optimal access to hard-to-reach areas such as recesses and drilled holes.
- Aggressive brushing effect due to the very stiff wire knots.

D [mm]	D_C [mm]	D_S [mm]	L_T [mm]	D_F [mm]	L [mm]	Knots	Opt. RPM	Max. RPM		Item no.	Designation
Steel wire (ST)											
19	19	6	28	0.25	68	6	10,000 – 15,000	20,000	10	43207012	PBG 1919/6 ST 0,25
				0.35	68	6	10,000 – 15,000	20,000	10	43207001	PBG 1919/6 ST 0,35
										43706001	POS PBG 1919/6 ST 0,35
				0.50	68	6	10,000 – 15,000	20,000	10	43207005	PBG 1919/6 ST 0,50
										43706003	POS PBG 1919/6 ST 0,50
23	23	6	28	0.25	68	8	10,000 – 15,000	20,000	10	43208021	PBG 2323/6 ST 0,25
				0.35	68	8	10,000 – 15,000	20,000	10	43208026	PBG 2323/6 ST 0,35
				0.50	68	8	10,000 – 15,000	20,000	10	43208031	PBG 2323/6 ST 0,50
30	28	6	25	0.25	68	12	8,000 – 11,300	20,000	10	43209011	PBG 3028/6 ST 0,25

Continued on next page

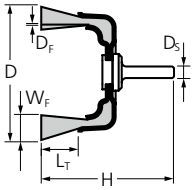
Shank-mounted end brushes
knotted

D [mm]	D_C [mm]	D_S [mm]	L_T [mm]	D_F [mm]	L [mm]	Knots	Opt. RPM	Max. RPM		Item no.	Designation
30	28	6	25	0.35	68	12	8,000 – 11,300	20,000	10	43209001	PBG 3028/6 ST 0,35
										43706005	POS PBG 3028/6 ST 0,35
				0.50	68	12	8,000 – 11,300	20,000	10	43209002	PBG 3028/6 ST 0,50
										43706007	POS PBG 3028/6 ST 0,50

Stainless steel wire (INOX) – Supplied with plastic-covered brush body. All INOX brushes are degreased.

19	19	6	28	0.15	68	6	8,000 – 13,000	20,000	10	43207011	PBG 1919/6 INOX 0,15
				0.25	68	6	8,000 – 13,000	20,000	10	43207013	PBG 1919/6 INOX 0,25
				0.35	68	6	8,000 – 13,000	20,000	10	43207003	PBG 1919/6 INOX 0,35
										43706002	POS PBG 1919/6 INOX 0,35
				0.60	68	6	8,000 – 13,000	20,000	10	43207007	PBG 1919/6 INOX 0,60
23	23	6	28	0.15	68	8	8,000 – 13,000	20,000	10	43208012	PBG 2323/6 INOX 0,15
				0.25	68	8	8,000 – 13,000	20,000	10	43208022	PBG 2323/6 INOX 0,25
				0.35	68	8	8,000 – 13,000	20,000	10	43208027	PBG 2323/6 INOX 0,35
				0.60	68	8	8,000 – 13,000	20,000	10	43208032	PBG 2323/6 INOX 0,60
30	28	6	25	0.15	68	12	6,000 – 9,800	20,000	10	43209007	PBG 3028/6 INOX 0,15
				0.25	68	12	6,000 – 9,800	20,000	10	43209012	PBG 3028/6 INOX 0,25
				0.35	68	12	6,000 – 9,800	20,000	10	43209004	PBG 3028/6 INOX 0,35
										43706006	POS PBG 3028/6 INOX 0,35
				0.60	68	12	6,000 – 9,800	20,000	10	43209005	PBG 3028/6 INOX 0,60

Shank-mounted cup brushes
crimped



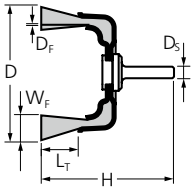
TBU

Generally suitable for cleaning, derusting and smoothing, as well as removal of corrosion and paint. Particularly suitable for brushing on large, flat and easily accessible surfaces due to face-down use with the entire brush face applied to the workpiece.

Special features:
- Highly flexible, enabling optimal adjustment to the workpiece contour.
- Creates fine surfaces.

D [mm]	W_F [mm]	D_S [mm]	L_T [mm]	Grit size	D_F [mm]	H [mm]	Opt. RPM	Max. RPM		Item no.	Designation
Steel wire (ST)											
30	10	6	15	-	0.20	60	5,300 – 7,900	10,500	10	43209701	TBU 3010/6 ST 0,20
40	15	6	20	-	0.20	70	5,300 – 7,900	10,500	10	43209711	TBU 4015/6 ST 0,20
50	10	6	20	-	0.30	75	5,300 – 7,900	10,500	10	43210001	TBU 5010/6 ST 0,30
									5	43703001	POS TBU 5010/6 ST 0,30
60	15	6	20	-	0.30	85	2,200 – 3,400	4,500	10	43211001	TBU 6015/6 ST 0,30
70	15	6	22	-	0.20	80	3,000 – 4,500	6,000	10	43211201	TBU 7015/6 ST 0,20
					0.30	80	3,000 – 4,500	6,000	10	43211202	TBU 7015/6 ST 0,30
Stainless steel wire (INOX) – Supplied with plastic-covered brush body.											
30	10	6	15	-	0.20	60	4,200 – 6,800	10,500	10	43209704	TBU 3010/6 INOX 0,20
40	15	6	20	-	0.20	70	4,200 – 6,800	10,500	10	43209714	TBU 4015/6 INOX 0,20
50	10	6	20	-	0.30	75	4,200 – 6,800	10,500	10	43210003	TBU 5010/6 INOX 0,30
									5	43703002	POS TBU 5010/6 INOX 0,30
60	15	6	20	-	0.30	85	1,800 – 2,900	4,500	10	43211003	TBU 6015/6 INOX 0,30
70	15	6	22	-	0.20	80	2,400 – 4,000	6,000	10	43211204	TBU 7015/6 INOX 0,20
					0.30	80	2,400 – 4,000	6,000	10	43211205	TBU 7015/6 INOX 0,30
Silicon carbide (SiC) plastic filament											
50	10	6	20	180	0.90	75	4,200 – 6,800	10,500	10	43210004	TBU 5010/6 SiC 180 0,90
									5	43703003	POS TBU 5010/6 SiC 180 0,90
60	15	6	20	180	0.90	85	1,800 – 2,900	4,500	10	43211004	TBU 6015/6 SiC 180 0,90
Ceramic oxide grain (CO) plastic filament											
50	15	6	22	120	1.10	75	4,200 – 6,800	10,500	10	43210025	TBU 5015/6 CO 120 1,10

Shank-mounted cup brushes
crimped



TBU, with cord wire

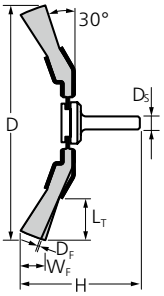
Generally suitable for cleaning, derusting and smoothing, as well as removal of corrosion and paint. Particularly suitable for brushing on large, flat and easily accessible surfaces due to face-down use with the entire brush face applied to the workpiece.Brushes with cord wire are particularly robust and durable and are therefore ideally suited to demanding tasks. Cord wire is made of multiple wavy wires which are stranded together. This special wire construction combines the aggressive brushing effect of a knotted brush with the flexibility of a wavy brush, achieving an excellent surface finish and a longer tool life.

Special features:
- Highly flexible, enabling optimal adjustment to the workpiece contour.
- Aggressive and effective work due to the special wire construction.
- Longer tool life compared to conventional crimped brushes.

D [mm]	W_F [mm]	D_S [mm]	L_T [mm]	D_F [mm]	H [mm]	Opt. RPM	Max. RPM		Item no.	Designation
Brass-plated steel cord wire (LIT STM)										
50	10	6	20	0.25	75	5,300 – 7,900	10,500	10	43210005	TBU 5010/6 LIT STM 0,25

New item

Shank-mounted bevel brushes
crimped



KBU

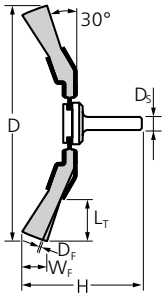
Excellent for medium-duty brushing such as deburring, cleaning and derusting.

Special features:
- Optimal access to hard-to-reach areas such as inner edges, grooves and keyways.
- Highly flexible, enabling optimal adjustment to the workpiece contour.
- Creates fine surfaces.

D [mm]	W_F [mm]	D_S [mm]	L_T [mm]	Grit size	D_F [mm]	H [mm]	Opt. RPM	Max. RPM		Item no.	Designation
Steel wire (ST)											
50	10	6	10	-	0.20	49	7,500 – 11,300	15,000	10	43220016	KBU 5010/6 ST 0,20
70	10	6	15	-	0.30	58	7,500 – 11,300	15,000	10	43220061	KBU 7010/6 ST 0,30
80	10	6	20	-	0.30	62	6,000 – 9,000	12,000	10	43220081	KBU 8010/6 ST 0,30
95	10	6	25	-	0.30	62	6,000 – 9,000	12,000	10	43312501	KBU 9510/6 ST 0,30
Stainless steel wire (INOX) – All INOX brushes are degreased.											
50	10	6	10	-	0.20	49	6,000 – 9,800	15,000	10	43220017	KBU 5010/6 INOX 0,20
70	10	6	15	-	0.15	58	6,000 – 9,800	15,000	10	43220052	KBU 7010/6 INOX 0,15
					0.20	58	6,000 – 9,800	15,000	10	43220057	KBU 7010/6 INOX 0,20
80	10	6	20	-	0.30	62	4,800 – 7,800	12,000	10	43220082	KBU 8010/6 INOX 0,30
95	10	6	25	-	0.30	62	4,800 – 7,800	12,000	10	43312503	KBU 9510/6 INOX 0,30
Silicon carbide (SiC) plastic filament											
70	10	6	15	120	0.55	58	6,000 – 9,800	15,000	10	43220070	KBU 7010/6 SiC 120 0,55
80	10	6	20	120	0.55	62	4,800 – 7,800	12,000	10	*43220090*	KBU 8010/6 SiC 120 0,55
95	10	6	25	120	1.10	62	4,800 – 7,800	12,000	10	*43220110*	KBU 9510/6 SiC 120 1,10
Ceramic oxide grain (CO) plastic filament											
70	10	6	15	120	0.55	58	6,000 – 9,800	15,000	10	43220075	KBU 7010/6 CO 120 0,55
80	10	6	20	120	0.55	62	4,800 – 7,800	12,000	10	*43220095*	KBU 8010/6 CO 120 0,55
95	10	6	25	120	1.10	62	4,800 – 7,800	12,000	10	*43220115*	KBU 9510/6 CO 120 1,10

Discontinued product

Shank-mounted bevel brushes
crimped

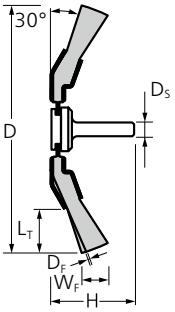


KBU, with cord wire

Excellent for medium-duty brushing such as deburring, cleaning and derusting.Brushes with cord wire are particularly robust and durable and are therefore ideally suited to demanding tasks. Cord wire is made of multiple wavy wires which are stranded together. This special wire construction combines the aggressive brushing effect of a knotted brush with the flexibility of a wavy brush, achieving an excellent surface finish and a longer tool life.

Special features:
- Highly flexible, enabling optimal adjustment to the workpiece contour.
- Aggressive and effective work due to the special wire construction.
- Longer tool life compared to conventional crimped brushes.

D [mm]	W_F [mm]	D_S [mm]	L_T [mm]	D_F [mm]	H [mm]	Opt. RPM	Max. RPM		Item no.	Designation
Brass-plated steel cord wire (LIT STM)										
70	10	6	15	0.25	58	7,500 – 11,300	15,000	10	43220062	KBU 7010/6 LIT STM 0,25



KBU RS

Excellent for medium-duty brushing such as deburring, cleaning and derusting. Type with backwards shank for convenient and safe backwards working.

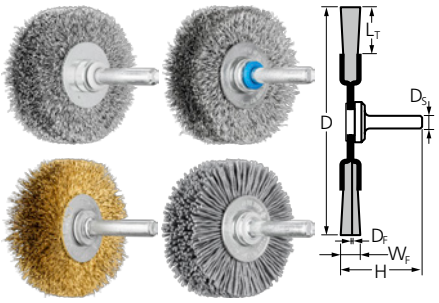
Special features:
- Optimal access to hard-to-reach areas such as inner edges, grooves and keyways.
- Highly flexible, enabling optimal adjustment to the workpiece contour.
- Creates fine surfaces.

D [mm]	W_F [mm]	D_S [mm]	L_T [mm]	Grit size	D_F [mm]	H [mm]	Opt. RPM	Max. RPM		Item no.	Designation
Silicon carbide (SiC) plastic filament											
70	10	6	15	120	0.55	50	6,000 – 9,800	15,000	10	43220080	KBU 7010/6 SiC 120 0,55 RS
Ceramic oxide grain (CO) plastic filament											
70	10	6	15	120	0.55	50	6,000 – 9,800	15,000	10	43220085	KBU 7010/6 CO 120 0,55 RS

New item

Shank-mounted wheel brushes
crimped

PFERD TOOLS



RBU

Generally suitable for cleaning, derusting, smoothing, cleaning of weld seams, light deburring, and removal of corrosion and paint.

Special features:
- Highly flexible, enabling optimal adjustment to the workpiece contour.
- Creates fine surfaces.

D [mm]	W_F [mm]	D_S [mm]	L_T [mm]	Grit size	D_F [mm]	H [mm]	Opt. RPM	Max. RPM		Item no.	Designation
Steel wire (ST)											
20	4	6	3	-	0.20	37	10,000 – 15,000	20,000	10	43101001	RBU 2004/6 ST 0,20
30	6	6	7	-	0.20	40	10,000 – 15,000	20,000	10	43102001	RBU 3006/6 ST 0,20
										43701005	POS RBU 3006/6 ST 0,20
	9	6	7	-	0.20	42	10,000 – 15,000	20,000	10	43102021	RBU 3009/6 ST 0,20
40	9	6	9	-	0.20	46	9,000 – 13,500	18,000	10	43103001	RBU 4009/6 ST 0.20
50	4	6	9	-	0.20	41	7,500 – 11,300	15,000	10	43103021	RBU 5004/6 ST 0,20
	10	6	13	-	0.20	50	7,500 – 11,300	15,000	10	43103102	RBU 5010/6 ST 0,20
	15	6	13	-	0.20	50	7,500 – 11,300	15,000	10	43104001	RBU 5015/6 ST 0,20
										43701013	POS RBU 5015/6 ST 0,20
60	10	6	15	-	0.20	50	7,500 – 11,300	15,000	10	43104009	RBU 6010/6 ST 0,20
	15	6	15	-	0.20	50	7,500 – 11,300	15,000	10	43104011	RBU 6015/6 ST 0,20
70	4	6	9	-	0.20	41	7,500 – 11,300	15,000	10	43104051	RBU 7004/6 ST 0,20
	10	6	19	-	0.30	50	7,500 – 11,300	15,000	10	43104101	RBU 7010/6 ST 0,30
	15	6	19	-	0.30	50	7,500 – 11,300	15,000	10	43105001	RBU 7015/6 ST 0,30
										43701017	POS RBU 7015/6 ST 0,30
80	4	6	10	-	0.20	41	6,000 – 9,000	12,000	10	43105021	RBU 8004/6 ST 0,20
	15	6	19	-	0.30	50	6,000 – 9,000	12,000	10	43106001	RBU 8015/6 ST 0,30
100	10	6	25	-	0.30	50	6,000 – 9,000	12,000	10	43109001	RBU 10010/6 ST 0,30
										43701018	POS RBU 10010/6 ST 0,30
	15	6	25	-	0.20	51	6,000 – 9,000	12,000	10	43109005	RBU 10015/6 ST 0,20
					0.30	51	6,000 – 9,000	12,000	10	43109004	RBU 10015/6 ST 0,30
	20	6	25	-	0.20	54	6,000 – 9,000	12,000	10	43109007	RBU 10020/6 ST 0,20
					0.30	54	6,000 – 9,000	12,000	10	43109006	RBU 10020/6 ST 0,30
Stainless steel wire (INOX)											
20	4	6	3	-	0.20	37	8,000 – 13,000	20,000	10	43101003	RBU 2004/6 INOX 0,20
30	6	6	7	-	0.20	40	8,000 – 13,000	20,000	10	43102003	RBU 3006/6 INOX 0,20
										43701006	POS RBU 3006/6 INOX 0,20
	9	6	7	-	0.20	42	8,000 – 13,000	20,000	10	43102023	RBU 3009/6 INOX 0,20
40	9	6	9	-	0.20	46	7,200 – 11,700	18,000	10	43103003	RBU 4009/6 INOX 0,20
50	4	6	9	-	0.20	41	6,000 – 9,800	15,000	10	43103023	RBU 5004/6 INOX 0,20
	10	6	13	-	0.20	50	6,000 – 9,800	15,000	10	43103103	RBU 5010/6 INOX 0,20
	15	6	13	-	0.20	50	6,000 – 9,800	15,000	10	43104003	RBU 5015/6 INOX 0,20
										43701014	POS RBU 5015/6 INOX 0,20
60	10	6	15	-	0.20	50	6,000 – 9,800	15,000	10	43104010	RBU 6010/6 INOX 0,20
	15	6	15	-	0.20	50	6,000 – 9,800	15,000	10	43104033	RBU 6015/6 INOX 0,20
70	4	6	9	-	0.20	41	6,000 – 9,800	15,000	10	43104053	RBU 7004/6 INOX 0,20
	10	6	19	-	0.20	50	6,000 – 9,800	15,000	10	43104102	RBU 7010/6 INOX 0,20

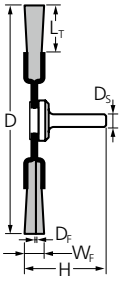
Continued on next page

Shank-mounted wheel brushes
crimped

PFERD TOOLS

D [mm]	W_F [mm]	D_S [mm]	L_T [mm]	Grit size	D_F [mm]	H [mm]	Opt. RPM	Max. RPM		Item no.	Designation
70	15	6	19	-	0.15	50	6,000 – 9,800	15,000	10	43104106	RBU 7015/6 INOX 0,15
					0.30	50	6,000 – 9,800	15,000	10	43105003	RBU 7015/6 INOX 0,30
										43701019	POS RBU 7015/6 INOX 0,30
80	4	6	10	-	0.20	41	4,800 – 7,800	12,000	10	43105023	RBU 8004/6 INOX 0,20
	10	6	19	-	0.20	50	4,800 – 7,800	12,000	10	43105103	RBU 8010/6 INOX 0,20
	15	6	19	-	0.15	50	4,800 – 7,800	12,000	10	43106102	RBU 8015/6 INOX 0,15
					0.30	50	4,800 – 7,800	12,000	10	43106003	RBU 8015/6 INOX 0,30
100	10	6	25	-	0.30	50	4,800 – 7,800	12,000	10	43109003	RBU 10010/6 INOX 0,30
										43701020	POS RBU 10010/6 INOX 0,30
	15	6	25	-	0.20	51	4,800 – 7,800	12,000	10	43109009	RBU 10015/6 INOX 0,20
					0.30	51	4,800 – 7,800	12,000	10	43109008	RBU 10015/6 INOX 0,30
	20	6	25	-	0.20	54	4,800 – 7,800	12,000	10	43109011	RBU 10020/6 INOX 0,20
					0.30	54	4,800 – 7,800	12,000	10	43109010	RBU 10020/6 INOX 0,30
Brass wire (MES)											
20	4	6	3	-	0.20	37	8,000 – 13,000	20,000	10	43101002	RBU 2004/6 MES 0,20
30	6	6	7	-	0.20	40	8,000 – 13,000	20,000	10	43102002	RBU 3006/6 MES 0,20
40	9	6	9	-	0.20	46	7,200 – 11,700	18,000	10	43103002	RBU 4009/6 MES 0,20
50	15	6	13	-	0.20	50	6,000 – 9,800	15,000	10	43104002	RBU 5015/6 MES 0,20
70	15	6	19	-	0.30	50	6,000 – 9,800	15,000	10	43105002	RBU 7015/6 MES 0,30
80	15	6	19	-	0.30	50	4,800 – 7,800	12,000	10	43106002	RBU 8015/6 MES 0,30
Silicon carbide (SiC) plastic filament											
50	4	6	10	120	0.55	50	6,000 – 9,800	15,000	10	43103025	RBU 5004/6 SiC 120 0,55
	10	6	13	180	0.90	50	6,000 – 9,800	15,000	10	43103101	RBU 5010/6 SiC 180 0,90
	15	6	13	180	0.90	50	6,000 – 9,800	15,000	10	43104004	RBU 5015/6 SiC 180 0,90
										43701016	POS RBU 5015/6 SiC 180 0,90
70	8	6	19	120	0.55	50	6,000 – 9,800	15,000	10	43104075	RBU 7008/6 SiC 120 0,55
	15	6	19	180	0.90	50	6,000 – 9,800	15,000	10	43105004	RBU 7015/6 SiC 180 0,90
										43701025	POS RBU 7015/6 SiC 180 0,90
80	8	6	19	120	0.55	50	4,800 – 7,800	12,000	10	43105075	RBU 8008/6 SiC 120 0,55
	15	6	19	180	0.90	50	4,800 – 7,800	12,000	10	43106004	RBU 8015/6 SiC 180 0,90
Ceramic oxide grain (CO) plastic filament											
50	4	6	10	120	0.55	50	6,000 – 9,800	15,000	10	43103028	RBU 5004/6 CO 120 0,55
	15	6	13	120	1.10	50	6,000 – 9,800	15,000	10	43104008	RBU 5015/6 CO 120 1,10
70	8	6	19	120	0.55	50	6,000 – 9,800	15,000	10	43104078	RBU 7008/6 CO 120 0,55
	15	6	19	120	1.10	50	6,000 – 9,800	15,000	10	43105008	RBU 7015/6 CO 120 1,10
80	8	6	19	120	0.55	50	4,800 – 7,800	12,000	10	43105078	RBU 8008/6 CO 120 0,55
	15	6	19	120	1.10	50	4,800 – 7,800	12,000	10	43106008	RBU 8015/6 CO 120 1,10

Shank-mounted wheel brushes
crimped

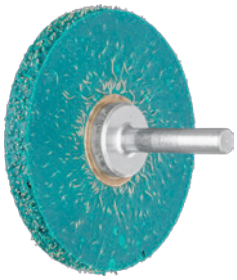


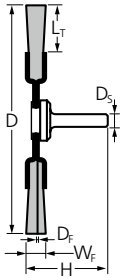
RBU, with cord wire

Generally suitable for cleaning, derusting, smoothing, cleaning of weld seams, light deburring, and removal of corrosion and paint.Brushes with cord wire are particularly robust and durable and are therefore ideally suited to demanding tasks. Cord wire is made of multiple wavy wires which are stranded together. This special wire construction combines the aggressive brushing effect of a knotted brush with the flexibility of a wavy brush, achieving an excellent surface finish and a longer tool life.

Special features:
- Highly flexible, enabling optimal adjustment to the workpiece contour.
- Aggressive and effective work due to the special wire construction.
- Longer tool life compared to conventional crimped brushes.

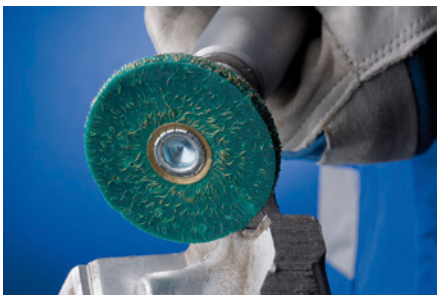
D [mm]	W_F [mm]	D_S [mm]	L_T [mm]	D_F [mm]	H [mm]	Opt. RPM	Max. RPM		Item no.	Designation
Brass-plated steel cord wire (LIT STM)										
70	15	6	19	0.25	50	7,500 – 11,300	15,000	10	43105005	RBU 7015/6 LIT STM 0,25





RBV, encapsulated

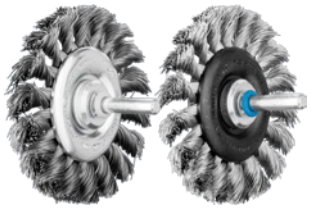
Particularly aggressive brushing effect for heavy-duty brushing.

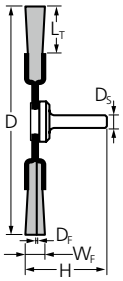


Special features:
- Focused working thanks to high dimensional stability.
- Maximum tool life as premature wire breakage is prevented.

D [mm]	W_F [mm]	D_S [mm]	L_T [mm]	D_F [mm]	H [mm]	Opt. RPM	Max. RPM		Item no.	Designation
Steel wire (ST) – ST = brass-plated steel wire										
63	7	6	20	0.30	40	7,500 – 11,300	15,000	1	43507501	RBV 6307/6 ST 0,30

knotted





RBG

Aggressive brush for cleaning, derusting and work on weld seams.

Special features:
- Optimal access to hard-to-reach areas such as grooves and recesses.
- Aggressive brushing effect due to the very stiff wire knots.

D [mm]	W_F [mm]	D_S [mm]	L_T [mm]	D_F [mm]	H [mm]	Knots	Opt. RPM	Max. RPM		Item no.	Designation
Steel wire (ST)											
76	6	6	16	0.35	42	18	12,500 – 18,800	25,000	10	43107001	RBG 7006/6 ST 0,35
										43702001	POS RBG 7006/6 ST 0,35
				0.50	42	18	12,500 – 18,800	25,000	10	43107002	RBG 7006/6 ST 0,50

Continued on next page

New item

Shank-mounted wheel brushes
knotted

D [mm]	W_F [mm]	D_S [mm]	L_T [mm]	D_F [mm]	H [mm]	Knots	Opt. RPM	Max. RPM		Item no.	Designation
76	6	6	16	0.50	42	18	12,500 – 18,800	25,000	10	43702003	POS RBG 7006/6 ST 0,50
	12	6	16	0.35	42	18	12,500 – 18,800	25,000	10	43107011	RBG 7012/6 ST 0,35
				0.50	42	18	12,500 – 18,800	25,000	10	43107012	RBG 7012/6 ST 0,50
100	12	6	19	0.35	42	22	10,000 – 15,000	20,000	10	43108001	RBG 10012/6 ST 0,35
				0.50	42	22	10,000 – 15,000	20,000	10	43108002	RBG 10012/6 ST 0,50

Stainless steel wire (INOX) – All INOX brushes are degreased.

76	6	6	16	0.35	42	18	10,000 – 16,300	25,000	10	43107003	RBG 7006/6 INOX 0,35
										43702002	POS RBG 7006/6 INOX 0,35
				0.50	42	18	10,000 – 16,300	25,000	10	43107004	RBG 7006/6 INOX 0,50
	12	6	16	0.35	42	18	10,000 – 16,300	25,000	10	43107013	RBG 7012/6 INOX 0,35
				0.50	42	18	10,000 – 16,300	25,000	10	43107014	RBG 7012/6 INOX 0,50
100	12	6	19	0.35	42	22	8,000 – 13,000	20,000	10	43108005	RBG 10012/6 INOX 0,35
				0.50	42	22	8,000 – 13,000	20,000	10	43108006	RBG 10012/6 INOX 0,50

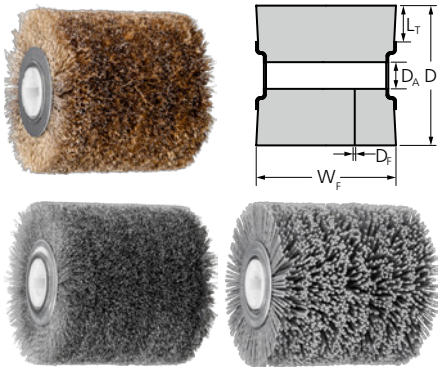
BSO

Set of different wheel, cup and end brushes with a 6 mm shank.

Special features:
- Selection of the most common versions.
- Promotional display box.

Contents	Contents [Piece]		Item no.	Designation
TBU 5010/6 ST 0.30, PBU 1010/6 ST 0.35, PBU 1516/6 ST 0.35, PBU 2022/6 ST 0.50, RBU 3006/6 ST 0.20, RBU 4009/6 ST 0.20, RBU 5015/6 ST 0.20, RBU 7015/6 ST 0.30	80	1	43900001	BSO 5500 ST

Wheel brushes for burnishing machines
crimped

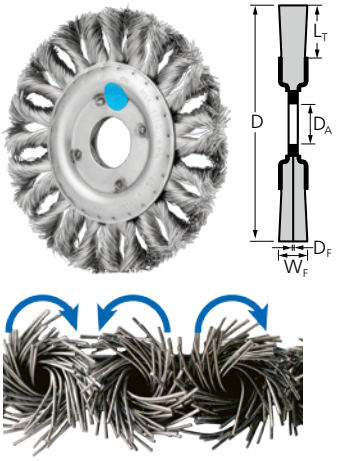


WBU, for burnishing machines

Excellent for surface structuring work on workpieces with large surfaces.

Special features:
- Can be used with all commercially available burnishing machines thanks to the hole with four keyways.
- Creates fine surfaces.

D [mm]	W_F [mm]	L_T [mm]	D_A [mm]	Grit size	D_F [mm]	Opt. RPM	Max. RPM		Item no.	Designation
Brass-plated steel cord wire (LIT STM)										
100	100	26	19.1	-	0.27	3,000 – 4,500	6,000	1	43509001	WBU 100100/19,1 LIT ST 0,27
Stainless steel wire (INOX)										
100	100	26	19.1	-	0.20	2,400 – 3,900	6,000	1	43509003	WBU 100100/19,1 INOX 0,20
Silicon carbide (SiC) plastic filament										
100	100	26	19.1	80	1.27	2,400 – 3,900	6,000	1	43509005	WBU 100100/19,1 SiC 80 1,27

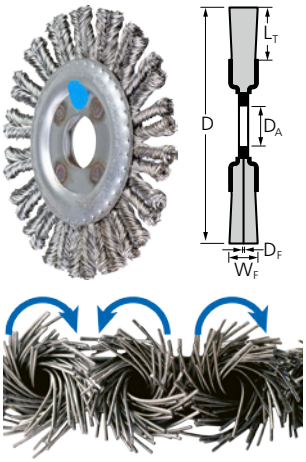


RBGIT CT, COMBITWIST

Very aggressive brush for heavy-duty brushing. Specially developed for work on stainless steel (INOX). Suitable for work on corners and edges as the knots are less likely to unravel.

Special features:
- Maximum protection against corrosion as all components are produced from stainless steel (INOX) in quality 1.4310/1.4301 (V2A). Particularly well-suited to use in extremely critical environments.
- Maximum economic efficiency due to maximum tool life and stock removal rate and high level of comfort thanks to smooth running with no brush recoiling.
- Aggressive brushing effect due to the very stiff wire knots.

D [mm]	W_F [mm]	L_T [mm]	D_A [mm]	D_F [mm]	Knots	Opt. RPM	Max. RPM		Item no.	Designation
Stainless steel wire (INOX) – All INOX brushes are degreased.										
115	12	22	22.2	0.35	24	5,000 – 12,500	12,500	1	43300042	POS RBGIT 11512/22,2 CT INOX 0,35

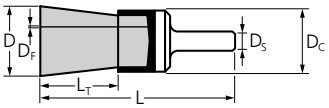


RBGIT PIPE CT, Pipeline, COMBITWIST

Brush that has been specially developed for work on stainless steel (INOX). Perfect for heavy-duty brushing in pipeline and container construction. Suitable for work on corners and edges as the knots are less likely to unravel.

Special features:
- Maximum protection against corrosion as all components are produced from stainless steel (INOX) in quality 1.4310/1.4301 (V2A). Particularly well-suited to use in extremely critical environments.
- Extra-slim design enables optimal access to hard-to-reach areas such as root weld seams.
- Maximum economic efficiency due to maximum tool life and stock removal rate and high level of comfort thanks to smooth running with no brush recoiling.

D [mm]	W_F [mm]	L_T [mm]	D_A [mm]	D_F [mm]	Knots	Opt. RPM	Max. RPM		Item no.	Designation
Stainless steel wire (INOX) – All INOX brushes are degreased.										
115	6	22	22.2	0.50	36	5,000 – 12,500	12,500	1	43300032	POS RBGIT 11506/22,2 PIPE CT INOX 0,50

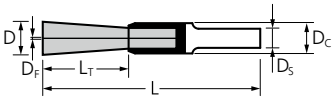


PBUIT, crimped

Suitable for light brushing such as deburring, cleaning, and removal of heat discolouration. Specially developed for work on stainless steel (INOX).

Special features:
- Maximum protection against corrosion as all components are produced from stainless steel (INOX) in quality 1.4310/1.4301 (V2A). Particularly well-suited to use in extremely critical environments.
- Optimal access to hard-to-reach areas such as drilled holes and cavities as the filament spreads out upon rotation.
- Creates fine surfaces.

D [mm]	D_C [mm]	D_S [mm]	L_T [mm]	D_F [mm]	L [mm]	Opt. RPM	Max. RPM		Item no.	Designation
Stainless steel wire (INOX) – All INOX brushes are degreased.										
15	16	6	22	0.15	65	7,200 – 11,700	18,000	10	43200022	PBUIT 1516/6 INOX 0,15
				0.20	65	7,200 – 11,700	18,000	10	43200027	PBUIT 1516/6 INOX 0,20
20	22	6	25	0.15	70	7,200 – 11,700	18,000	10	43200032	PBUIT 2022/6 INOX 0,15
				0.20	70	7,200 – 11,700	18,000	10	43200037	PBUIT 2022/6 INOX 0,20



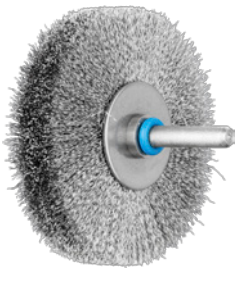
PBGSIT, SINGLETWIST, knotted

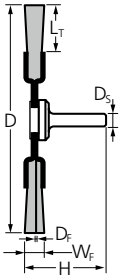
Particularly flexible single-knot brush for special applications. Specially developed for work on stainless steel (INOX).

Special features:
- Maximum protection against corrosion as all components are produced from stainless steel (INOX) in quality 1.4310/1.4301 (V2A). Particularly well-suited to use in extremely critical environments.
- Optimal access to hard-to-reach areas such as inside corners, as the knot is less likely to unravel.

D [mm]	D_C [mm]	D_S [mm]	L_T [mm]	D_F [mm]	L [mm]	Opt. RPM	Max. RPM		Item no.	Designation
Stainless steel wire (INOX) – All INOX brushes are degreased.										
10	10	6	25	0.20	65	4,000 – 6,500	10,000	10	43200102	PBGSIT 1010/6 INOX 0,20
				0.35	65	4,000 – 6,500	10,000	10	43200107	PBGSIT 1010/6 INOX 0,35

INOX-TOTAL
Shank-mounted wheel brushes



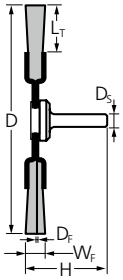


RBUIT

Generally suitable for cleaning, deburring and removal of heat discolouration. Specially developed for work on stainless steel (INOX).

Special features:
- Maximum protection against corrosion as all components are produced from stainless steel (INOX) in quality 1.4310/1.4301 (V2A). Particularly well-suited to use in extremely critical environments.
- Highly flexible, enabling optimal adjustment to the workpiece contour.
- Creates fine surfaces.

D [mm]	W_F [mm]	D_S [mm]	L_T [mm]	D_F [mm]	H [mm]	Opt. RPM	Max. RPM		Item no.	Designation
Stainless steel wire (INOX) – All INOX brushes are degreased.										
30	6	6	7	0.20	40	8,000 – 13,000	20,000	10	43100012	RBUIT 3006/6 INOX 0,20
50	15	6	13	0.20	50	6,000 – 9,800	15,000	10	43100032	RBUIT 5015/6 INOX 0,20
70	15	6	19	0.15	50	6,000 – 9,800	15,000	10	43100062	RBUIT 7015/6 INOX 0,15
				0.30	50	6,000 – 9,800	15,000	10	43100067	RBUIT 7015/6 INOX 0,30
80	15	6	19	0.15	50	4,800 – 7,800	12,000	10	43100072	RBUIT 8015/6 INOX 0,15
				0.30	50	4,800 – 7,800	12,000	10	43100077	RBUIT 8015/6 INOX 0,30



RBUIT, crimped with plastic filament and plastic side plates

Generally suitable for cleaning, deburring and removal of heat discolouration. Specially developed for work on stainless steel (INOX). Maximum protection against corrosion as all metallic components are produced from stainless steel (INOX) in quality 1.4310/1.4301 (V2A). Particularly well suited to use in extremely critical environments.

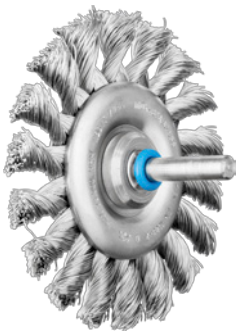
Special features:
- Plastic side plate prevents damage and contamination in the event of workpiece contact.
- All components are made from non-rusting materials.
- Highly flexible, enabling optimal adjustment to the workpiece contour. Creates fine surfaces.

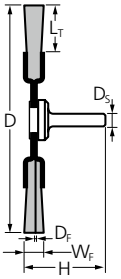
D [mm]	W_F [mm]	D_S [mm]	L_T [mm]	Grit size	D_F [mm]	H [mm]	Opt. RPM	Max. RPM		Item no.	Designation
Silicon carbide (SiC) plastic filament											
50	15	6	13	180	0.90	50	6,000 – 9,800	15,000	10	43210008	RBUIT 5015/6 SIC 180 0.90 KS
70	15	6	19	180	0.90	50	6,000 – 9,800	15,000	10	43105006	RBUIT 7015/6 SIC 180 0,90 KS

8

New item

INOX-TOTAL
Shank-mounted wheel brushes





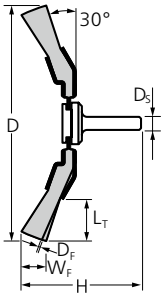
RBGIT, knotted

Generally suitable for cleaning, deburring and removal of heat discolouration. Specially developed for work on stainless steel (INOX).

Special features:
- Maximum protection against corrosion as all components are produced from stainless steel (INOX) in quality 1.4310/1.4301 (V2A). Particularly well-suited to use in extremely critical environments.
- Aggressive brushing effect due to the very stiff wire knots.

D [mm]	W_F [mm]	D_S [mm]	L_T [mm]	D_F [mm]	Knots	H [mm]	Opt. RPM	Max. RPM		Item no.	Designation
Stainless steel wire (INOX) – All INOX brushes are degreased.											
76	6	6	16	0.35	18	42	10,000 – 16,300	25,000	10	43100252	RBGIT 7006/6 INOX 0,35

Shank-mounted bevel brushes

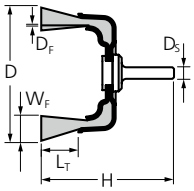


KBUIT

Excellent for medium-duty brushing such as deburring, cleaning, and removal of heat discolouration. Specially developed for work on stainless steel (INOX).

Special features:
- Maximum protection against corrosion as all components are produced from stainless steel (INOX) in quality 1.4310/1.4301 (V2A). Particularly well-suited to use in extremely critical environments.
- Optimal access to hard-to-reach areas such as inner edges, grooves and keyways.
- Highly flexible, enabling optimal adjustment to the workpiece contour. Creates fine surfaces.

D [mm]	W_F [mm]	D_S [mm]	L_T [mm]	D_F [mm]	H [mm]	Opt. RPM	Max. RPM		Item no.	Designation
Stainless steel wire (INOX) – All INOX brushes are degreased.										
50	10	6	10	0.20	49	6,000 – 9,800	15,000	10	43225017	KBUIT 5010/6 INOX 0,20
70	10	6	15	0.15	58	6,000 – 9,800	15,000	10	43225052	KBUIT 7010/6 INOX 0,15
				0.20	58	6,000 – 9,800	15,000	10	43225057	KBUIT 7010/6 INOX 0,20
80	10	6	20	0.30	62	4,800 – 7,800	12,000	10	43225087	KBUIT 8010/6 INOX 0,30

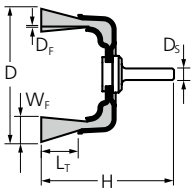


TBUIT, crimped

Specially developed for work on stainless steel (INOX). Generally suitable for cleaning, derusting and smoothing, as well as removal of corrosion and paint. Particularly suitable for brushing on large, flat and easily accessible surfaces due to face-down use with the entire brush face applied to the workpiece.

Special features:
- Maximum protection against corrosion as all components are produced from stainless steel (INOX) in quality 1.4310/1.4301 (V2A). Particularly well-suited to use in extremely critical environments.
- Highly flexible, enabling optimal adjustment to the workpiece contour.
- Creates fine surfaces.

D [mm]	D_S [mm]	D_F [mm]	Max. RPM		Item no.	Designation
Stainless steel wire (INOX) – All INOX brushes are degreased.						
50	6	0.30	10,500	10	43210006	TBUIT 5010/6 INOX 0,30



TBUIT, crimped with plastic filament

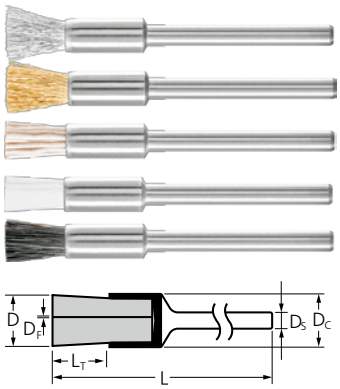
Generally suitable for cleaning, derusting and smoothing, as well as removal of corrosion and paint. Particularly suitable for brushing on large, flat and easily accessible surfaces due to face-down use with the entire brush face applied to the workpiece. Maximum protection against corrosion as all metallic components are produced from stainless steel (INOX) in quality 1.4310/1.4301 (V2A). Particularly well suited to use in extremely critical environments.

Special features:
- All components are made from non-rusting materials.
- Highly flexible, enabling optimal adjustment to the workpiece contour.
- Creates fine surfaces.

D [mm]	D_S [mm]	D_F [mm]	Grit size	Max. RPM		Item no.	Designation
Silicon carbide (SiC) plastic filament							
50	6	0.90	180	10,500	10	43210007	TBUIT 5010/6 SiC 180 0,90

New item

Miniature brushes
End brushes, crimped



PBU

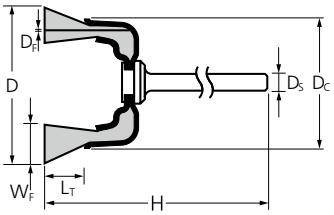
Suitable for light brushing such as deburring, cleaning and polishing. Miniature brushes can be used on flexible shaft drives, micro motors or electric grinders.

Special features:
- Maximum precision and efficiency in work on delicate workpieces.
- Optimal access to hard-to-reach areas such as drilled holes and cavities as the filament spreads out upon rotation.
- Creates fine surfaces.

D [mm]	D_C [mm]	D_S [mm]	L_T [mm]	Grit size	D_F [mm]	L [mm]	Opt. RPM	Max. RPM		Item no.	Designation
Steel wire (ST)											
5	5	3	8	-	0.10	45	5,000 – 15,000	25,000	10	43200351	PBU 0505/3 ST 0,10
Stainless steel wire (INOX)											
5	5	3	8	-	0.10	45	4,000 – 10,000	25,000	10	43200352	PBU 0505/3 INOX 0,10
Brass wire (MES)											
5	5	3	8	-	0.10	45	4,000 – 10,000	25,000	10	43200353	PBU 0505/3 MES 0,10
Silicon carbide (SiC) plastic filament											
5	5	3	8	320	0.55	45	1,200 – 5,000	25,000	10	43200354	PBU 0505/3 SiC 320 0,55
				800	0.25	45	1,200 – 5,000	25,000	10	43200355	PBU 0505/3 SiC 800 0,25
Aluminium oxide (AO) plastic filament											
5	5	3	8	320	0.50	45	1,200 – 5,000	25,000	10	*43200361*	PBU 0505/3 AO 320 0,50
				600	0.30	45	1,200 – 5,000	25,000	10	*43200360*	PBU 0505/3 AO 600 0,30
Diamond (DIA) plastic filament											
5	5	3	8	400	0.40	45	1,200 – 5,000	25,000	10	47701649	PBU 0505/3 DIA 400 0,40
Nylon plastic filament											
5	5	3	8	-	0.20	45	1,200 – 5,000	25,000	10	43200356	PBU 0505/3 Nylon 0,20
Natural bristles, white bristle (SBW)											
5	5	3	8	-	-	45	4,000 – 10,000	25,000	10	*43200357*	PBU 0505/3 SBW
Natural bristles, black bristle (SBS)											
5	5	3	8	-	-	45	4,000 – 10,000	25,000	10	43200358	PBU 0505/3 SBS
Natural bristles, goat hair (ZHW)											
5	5	3	8	-	-	45	4,000 – 10,000	25,000	10	*43200359*	PBU 0505/3 ZHW

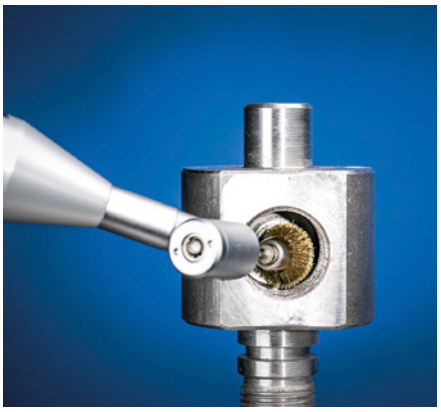
Discontinued product

Miniature brushes
Cup brushes, crimped



TBU

Suitable for light brushing such as deburring, cleaning and polishing. Particularly suitable for brushing on small surfaces due to face-down use with the entire brush face applied to the workpiece. They can be used on flexible shaft drives, micro motors or electric grinders.



Special features:
- Maximum precision and efficiency in work on delicate workpieces.
- Highly flexible, enabling optimal adjustment to the workpiece contour.
- Creates fine surfaces.

D [mm]	D_C [mm]	D_S [mm]	W_F [mm]	L_T [mm]	Grit size	D_F [mm]	H [mm]	Opt. RPM	Max. RPM		Item no.	Designation
Steel wire (ST)												
15	8	3	3	5	-	0.10	45	5,000 – 10,000	20,000	10	43209251	TBU 1503/3 ST 0,10
18	10	3	3	6	-	0.10	45	5,000 – 10,000	18,000	10	43209451	TBU 1803/3 ST 0,10
Stainless steel wire (INOX)												
15	8	3	3	5	-	0.10	45	4,000 – 10,000	20,000	10	43209252	TBU 1503/3 INOX 0,10
18	10	3	3	6	-	0.10	45	4,000 – 10,000	18,000	10	43209452	TBU 1803/3 INOX 0,10
Brass wire (MES)												
15	8	3	3	5	-	0.10	45	4,000 – 10,000	20,000	10	43209253	TBU 1503/3 MES 0,10
18	10	3	3	6	-	0.10	45	4,000 – 10,000	18,000	10	43209453	TBU 1803/3 MES 0,10
Silicon carbide (SiC) plastic filament												
18	10	3	3	6	320	0.55	45	1,200 – 5,000	18,000	10	43209454	TBU 1803/3 SiC 320 0,55
					800	0.25	45	1,200 – 5,000	18,000	10	43209455	TBU 1803/3 SiC 800 0,25
Aluminium oxide (AO) plastic filament												
18	10	3	3	6	320	0.50	45	1,200 – 5,000	18,000	10	*43209461*	TBU 1803/3 AO 320 0,50
		2.34	3	6	600	0.30	45	1,200 – 5,000	18,000	10	*43209410*	TBU 1803/2,34 AO 600 0,30
		3	3	6	600	0.30	45	1,200 – 5,000	18,000	10	*43209460*	TBU 1803/3 AO 600 0,30
Diamond (DIA) plastic filament												
18	10	3	3	6	400	0.40	45	4,000 – 10,000	18,000	10	47701648	TBU 1803/3 DIA 400 0,40
Nylon plastic filament												
15	8	3	3	5	-	0.15	45	1,200 – 5,000	20,000	10	43209256	TBU 1503/3 Nylon 0,15
18	10	3	3	6	-	0.15	45	1,200 – 5,000	18,000	10	43209456	TBU 1803/3 Nylon 0,15
Natural bristles, white bristle (SBW)												
15	8	3	3	5	-	-	45	4,000 – 10,000	20,000	10	*43209257*	TBU 1503/3 SBW
18	10	3	3	6	-	-	45	4,000 – 10,000	18,000	10	*43209457*	TBU 1803/3 SBW

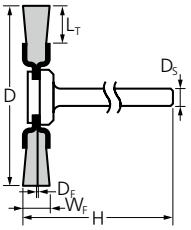
Continued on next page

Discontinued product

Miniature brushes
Cup brushes, crimped

D [mm]	D_C [mm]	D_S [mm]	W_F [mm]	L_T [mm]	Grit size	D_F [mm]	H [mm]	Opt. RPM	Max. RPM		Item no.	Designation
Natural bristles, black bristle (SBS)												
15	8	3	3	5	-	-	45	4,000 – 10,000	20,000	10	43209258	TBU 1503/3 SBS
18	10	3	3	6	-	-	45	4,000 – 10,000	18,000	10	43209458	TBU 1803/3 SBS
Natural bristles, goat hair (ZHW)												
15	8	3	3	5	-	-	45	4,000 – 10,000	20,000	10	*43209259*	TBU 1503/3 ZHW
18	10	3	3	6	-	-	45	4,000 – 10,000	18,000	10	*43209459*	TBU 1803/3 ZHW

Wheel brushes, crimped



RBU

Suitable for light brushing such as deburring, cleaning and polishing. Miniature brushes can be used on flexible shaft drives, micro motors or electric grinders.

Special features:
- Maximum precision and efficiency in work on delicate workpieces.
- Enables focused working in hard-to-reach areas.
- Creates fine surfaces.

D [mm]	W_F [mm]	D_S [mm]	L_T [mm]	Grit size	D_F [mm]	H [mm]	Opt. RPM	Max. RPM		Item no.	Designation
Steel wire (ST)											
16	2	3	3	-	0.10	46	5,000 – 10,000	12,000	10	43100351	RBU 1602/3 ST 0,10
19	2	3	5	-	0.10	46	5,000 – 10,000	12,000	10	43100551	RBU 1902/3 ST 0,10
22	2	3	6	-	0.10	46	5,000 – 10,000	12,000	10	43100751	RBU 2202/3 ST 0,10
32	2	3	10	-	0.10	46	5,000 – 10,000	12,000	10	43102051	RBU 3202/3 ST 0,10
Stainless steel wire (INOX)											
16	2	3	3	-	0.10	46	4,000 – 10,000	12,000	10	43100352	RBU 1602/3 INOX 0,10
19	2	3	5	-	0.10	46	4,000 – 10,000	12,000	10	43100552	RBU 1902/3 INOX 0,10
22	2	3	6	-	0.10	46	4,000 – 10,000	12,000	10	43100752	RBU 2202/3 INOX 0,10
32	2	3	10	-	0.10	46	4,000 – 10,000	12,000	10	43102053	RBU 3202/3 INOX 0,10
Brass wire (MES)											
16	2	3	3	-	0.10	46	4,000 – 10,000	12,000	10	43100353	RBU 1602/3 MES 0,10
19	2	3	5	-	0.10	46	4,000 – 10,000	12,000	10	43100553	RBU 1902/3 MES 0,10
22	2	3	6	-	0.10	46	4,000 – 10,000	12,000	10	43100753	RBU 2202/3 MES 0,10

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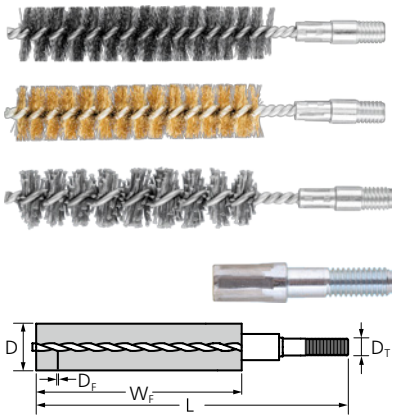
Miniature brushes
Wheel brushes, crimped

PFERD TOOLS

D [mm]	W_F [mm]	D_S [mm]	L_T [mm]	Grit size	D_F [mm]	H [mm]	Opt. RPM	Max. RPM		Item no.	Designation
Silicon carbide (SiC) plastic filament											
22	2	3	6	320	0.55	46	1,200 – 5,000	12,000	10	43100754	RBU 2202/3 SiC 320 0,55
				800	0.25	46	1,200 – 5,000	12,000	10	43100755	RBU 2202/3 SiC 800 0,25
Aluminium oxide (AO) plastic filament											
22	2	3	6	320	0.50	46	1,200 – 5,000	12,000	10	43100760	RBU 2202/3 AO 320 0,50
				600	0.30	46	1,200 – 5,000	12,000	10	43100761	RBU 2202/3 AO 600 0,30
Diamond (DIA) plastic filament											
22	2	3	6	400	0.40	46	1,200 – 5,000	12,000	10	47701642	RBU 2202/3 DIA 400 0,40
Nylon plastic filament											
22	2	3	6	-	0.15	46	1,200 – 5,000	12,000	10	43100756	RBU 2202/3 Nylon 0,15
Natural bristles, white bristle (SBW)											
16	2	2.34	3	-	-	46	4,000 – 10,000	12,000	10	*43100307*	RBU 1602/2,34 SBW
		3	3	-	-	46	4,000 – 10,000	12,000	10	*43100357*	RBU 1602/3 SBW
19	2	2.34	5	-	-	46	4,000 – 10,000	12,000	10	*43100507*	RBU 1902/2,34 SBW
		3	5	-	-	46	4,000 – 10,000	12,000	10	*43100557*	RBU 1902/3 SBW
22	2	3	6	-	-	46	4,000 – 10,000	12,000	10	*43100757*	RBU 2202/3 SBW
Natural bristles, black bristle (SBS)											
16	2	3	3	-	-	46	4,000 – 10,000	12,000	10	43100358	RBU 1602/3 SBS
19	2	3	5	-	-	46	4,000 – 10,000	12,000	10	43100558	RBU 1902/3 SBS
22	2	3	6	-	-	46	4,000 – 10,000	12,000	10	43100758	RBU 2202/3 SBS
Natural bristles, goat hair (ZHW)											
16	2	3	3	-	-	46	4,000 – 10,000	12,000	10	*43100359*	RBU 1602/3 ZHW
22	2	3	6	-	-	46	4,000 – 10,000	12,000	10	*43100759*	RBU 2202/3 ZHW

Discontinued product



IBU, with thread

Particularly suitable for deburring and cleaning pipes, threads, coupling sleeves and cylinders.

Special features:
- Can be clamped in collets thanks to integrated shank (M6 = 6 mm and 3/8 = 10 mm).
- Creates fine surfaces.

D [mm]	W_F [mm]	D_T [mm]	Grit size	D_F [mm]	L [mm]	Max. RPM		Item no.	Designation
Steel wire (ST)									
8	80	M6	-	0.15	120	1,000	10	43679001	IBU 0880/M6 ST 0,15
10	80	M6	-	0.15	120	1,000	10	43679011	IBU 1080/M6 ST 0,15
12	80	M6	-	0.15	120	1,000	10	43679021	IBU 1280/M6 ST 0,15
13	80	M6	-	0.20	120	1,000	10	43679031	IBU 1380/M6 ST 0,20
15	80	M6	-	0.20	120	1,000	10	43679041	IBU 1580/M6 ST 0,20
16	80	M6	-	0.20	120	1,000	10	43679051	IBU 1680/M6 ST 0,20
18	80	M6	-	0.20	120	1,000	10	43679061	IBU 1880/M6 ST 0,20
20	80	M6	-	0.20	120	1,000	10	43679071	IBU 2080/M6 ST 0,20
22	100	3/8 BSW	-	0.20	170	1,000	10	43679081	IBU 22100/3/8 BSW ST 0,20
25	100	3/8 BSW	-	0.20	170	1,000	10	43679091	IBU 25100/3/8 BSW ST 0,20
30	100	3/8 BSW	-	0.20	170	1,000	10	43679101	IBU 30100/3/8 BSW ST 0,20
32	100	1/2 BSW	-	0.25	170	1,000	10	43679111	IBU 32100/1/2 BSW ST 0,25
38	100	1/2 BSW	-	0.30	170	1,000	10	43679121	IBU 38100/1/2 BSW ST 0,30
40	100	1/2 BSW	-	0.30	170	1,000	10	43679131	IBU 40100/1/2 BSW ST 0,30
44	100	1/2 BSW	-	0.30	170	1,000	10	43679141	IBU 44100/1/2 BSW ST 0,30
50	100	1/2 BSW	-	0.35	170	1,000	5	43679151	IBU 50100/1/2 BSW ST 0,35
57	100	1/2 BSW	-	0.35	170	1,000	5	43679161	IBU 57100/1/2 BSW ST 0,35
63	100	1/2 BSW	-	0.35	170	1,000	5	43679171	IBU 63100/1/2 BSW ST 0,35
69	100	1/2 BSW	-	0.35	170	1,000	5	43679181	IBU 69100/1/2 BSW ST 0,35
75	100	1/2 BSW	-	0.35	170	1,000	1	43679191	IBU 75100/1/2 BSW ST 0,35
82	100	1/2 BSW	-	0.35	170	1,000	1	43679301	IBU 82100/1/2 BSW ST 0,35
101	100	1/2 BSW	-	0.50	170	1,000	1	43679311	IBU 101100/1/2 BSW ST 0,50
Stainless steel wire (INOX)									
8	80	M6	-	0.15	120	1,000	10	43679003	IBU 0880/M6 INOX 0,15
10	80	M6	-	0.15	120	1,000	10	43679013	IBU 1080/M6 INOX 0,15
12	80	M6	-	0.15	120	1,000	10	43679023	IBU 1280/M6 INOX 0,15
13	80	M6	-	0.20	120	1,000	10	43679033	IBU 1380/M6 INOX 0,20
15	80	M6	-	0.20	120	1,000	10	43679043	IBU 1580/M6 INOX 0,20
16	80	M6	-	0.20	120	1,000	10	43679053	IBU 1680/M6 INOX 0,20
18	80	M6	-	0.20	120	1,000	10	43679063	IBU 1880/M6 INOX 0,20
20	80	M6	-	0.20	120	1,000	10	43679073	IBU 2080/M6 INOX 0,20
22	100	3/8 BSW	-	0.20	170	1,000	10	43679083	IBU 22100/3/8 BSW INOX 0,20
25	100	3/8 BSW	-	0.20	170	1,000	10	43679093	IBU 25100/3/8 BSW INOX 0,20
30	100	3/8 BSW	-	0.20	170	1,000	10	43679103	IBU 30100/3/8 BSW INOX 0,20
32	100	1/2 BSW	-	0.25	170	1,000	10	43679113	IBU 32100/1/2 BSW INOX 0,25
38	100	1/2 BSW	-	0.30	170	1,000	10	43679123	IBU 38100/1/2 BSW INOX 0,30
40	100	1/2 BSW	-	0.30	170	1,000	10	43679133	IBU 40100/1/2 BSW INOX 0,30
44	100	1/2 BSW	-	0.30	170	1,000	10	43679143	IBU 44100/1/2 BSW INOX 0,30

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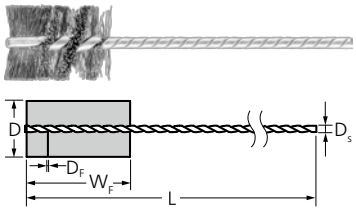
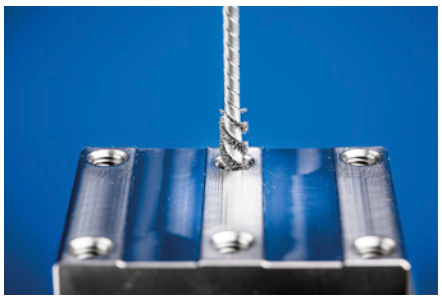
D [mm]	W_F [mm]	D_T [mm]	Grit size	D_F [mm]	L [mm]	Max. RPM		Item no.	Designation
Brass wire (MES)									
8	80	M6	-	0.15	120	1,000	10	43679002	IBU 0880/M6 MES 0,15
10	80	M6	-	0.15	120	1,000	10	43679012	IBU 1080/M6 MES 0,15
12	80	M6	-	0.15	120	1,000	10	43679022	IBU 1280/M6 MES 0,15
13	80	M6	-	0.20	120	1,000	10	43679032	IBU 1380/M6 MES 0,20
15	80	M6	-	0.20	120	1,000	10	43679042	IBU 1580/M6 MES 0,20
16	80	M6	-	0.20	120	1,000	10	43679052	IBU 1680/M6 MES 0,20
18	80	M6	-	0.20	120	1,000	10	43679062	IBU 1880/M6 MES 0,20
20	80	M6	-	0.20	120	1,000	10	43679072	IBU 2080/M6 MES 0,20
22	100	3/8 BSW	-	0.20	170	1,000	10	43679082	IBU 22100/3/8 BSW MES 0,20
25	100	3/8 BSW	-	0.20	170	1,000	10	43679092	IBU 25100/3/8 BSW MES 0,20
30	100	3/8 BSW	-	0.20	170	1,000	10	43679102	IBU 30100/3/8 BSW MES 0,20
32	100	1/2 BSW	-	0.25	170	1,000	10	43679112	IBU 32100/1/2 BSW MES 0,25
38	100	1/2 BSW	-	0.30	170	1,000	10	43679122	IBU 38100/1/2 BSW MES 0,30
40	100	1/2 BSW	-	0.30	170	1,000	10	43679132	IBU 40100/1/2 BSW MES 0,30
44	100	1/2 BSW	-	0.30	170	1,000	10	43679142	IBU 44100/1/2 BSW MES 0,30
Silicon carbide (SiC) 180 plastic filament									
8	80	M6	180	1.00	120	1,000	10	43679004	IBU 0880/M6 SiC 180 1,00
10	80	M6	180	1.00	120	1,000	10	43679014	IBU 1080/M6 SiC 180 1,00
12	80	M6	180	1.00	120	1,000	10	43679024	IBU 1280/M6 SiC 180 1,00
13	80	M6	180	1.00	120	1,000	10	43679034	IBU 1380/M6 SiC 180 1,00
15	80	M6	180	1.00	120	1,000	10	43679044	IBU 1580/M6 SiC 180 1,00
16	80	M6	180	1.00	120	1,000	10	43679054	IBU 1680/M6 SiC 180 1,00
18	80	M6	180	1.00	120	1,000	10	43679064	IBU 1880/M6 SiC 180 1,00
20	80	M6	180	1.00	120	1,000	10	43679074	IBU 2080/M6 SiC 180 1,00
22	100	3/8 BSW	180	1.00	170	1,000	10	43679084	IBU 22100/3/8 BSW SiC 180 1,00
25	100	3/8 BSW	180	1.00	170	1,000	10	43679094	IBU 25100/3/8 BSW SiC 180 1,00
30	100	3/8 BSW	180	1.00	170	1,000	10	43679104	IBU 30100/3/8 BSW SiC 180 1,00



IBU, shank-mounted

For light cleaning and deburring work on threaded holes or recesses, e.g. keyways. With tube brushes with a short eyelet, the filament reaches up to the tip of the brush.



Special features:
- Highly flexible, enabling optimal adjustment to the workpiece contour. Creates fine surfaces.
- Longer tool life due to the design of the stem.
- The bent end of the wire does not have any sharp edges, which prevents delicate surfaces from getting scratched.

D [mm]	W_F [mm]	D_S [mm]	D_F [mm]	L [mm]	Max. RPM		Item no.	Designation
Steel wire (ST)								
6	25	3.2	0.12	90	3,500	10	43679601	IBU 0625/3,2 ST 0,12
8	25	3.2	0.12	90	3,500	10	43679611	IBU 0825/3,2 ST 0,12
10	25	3.2	0.12	90	3,500	10	43679621	IBU 1025/3,2 ST 0,12
			0.20	90	3,500	10	43679631	IBU 1025/3,2 ST 0,20
13	25	3.2	0.12	90	3,500	10	43679641	IBU 1325/3,2 ST 0,12
			0.20	90	3,500	10	43679651	IBU 1325/3,2 ST 0,20

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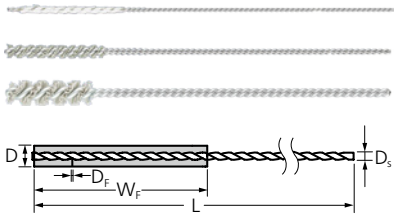
D [mm]	W_F [mm]	D_S [mm]	D_F [mm]	L [mm]	Max. RPM		Item no.	Designation
16	25	3.2	0.12	90	3,000	10	43679661	IBU 1625/3,2 ST 0,12
			0.20	90	3,000	10	43679671	IBU 1625/3,2 ST 0,20
19	25	3.2	0.12	90	3,000	10	43679681	IBU 1925/3,2 ST 0,12
			0.20	90	3,000	10	43679691	IBU 1925/3,2 ST 0,20
22	25	3.8	0.12	90	3,000	10	43679701	IBU 2225/3,8 ST 0,12
			0.20	90	3,000	10	43679711	IBU 2225/3,8 ST 0,20
25	25	3.8	0.12	90	3,000	10	43679721	IBU 2525/3,8 ST 0,12
			0.20	90	3,000	10	43679731	IBU 2525/3,8 ST 0,20
29	25	3.8	0.20	90	3,000	10	43679741	IBU 2925/3,8 ST 0,20
32	25	3.8	0.20	90	3,000	10	43679751	IBU 3225/3,8 ST 0,20
Stainless steel wire (INOX)								
6	25	3.2	0.12	90	3,500	10	43679602	IBU 0625/3,2 INOX 0,12
10	25	3.2	0.12	90	3,500	10	43679622	IBU 1025/3,2 INOX 0,12
13	25	3.2	0.12	90	3,500	10	43679642	IBU 1325/3,2 INOX 0,12
16	25	3.2	0.12	90	3,000	10	43679662	IBU 1625/3,2 INOX 0,12
			0.20	90	3,000	10	43679672	IBU 1625/3,2 INOX 0,20
19	25	3.2	0.12	90	3,000	10	43679682	IBU 1925/3,2 INOX 0,12
			0.20	90	3,000	10	43679692	IBU 1925/3,2 INOX 0,20
22	25	3.8	0.12	90	3,000	10	43679712	IBU 2225/3,8 INOX 0,12
25	25	3.8	0.12	90	3,000	10	43679722	IBU 2525/3,8 INOX 0,12
			0.20	90	3,000	10	43679732	IBU 2525/3,8 INOX 0,20
32	25	3.8	0.20	90	3,000	10	43679752	IBU 3225/3,8 INOX 0,20



IBU, shank-mounted

For light deburring and cleaning of holes and cross holes and for work on surfaces. With tube brushes with a short eyelet, the filament reaches up to the tip of the brush.

Special features:
- Highly flexible, enabling optimal adjustment to the workpiece contour. Creates fine surfaces.
- Enable maximum precision and efficiency in work on delicate workpieces. The dimensional accuracy of the workpieces remains unchanged.
- The bent end of the wire does not have any sharp edges, which prevents delicate surfaces from getting scratched.

D [mm]	W_F [mm]	D_S [mm]	Grit size	D_F [mm]	L [mm]	Max. RPM		Item no.	Designation
Aluminium oxide (AO) plastic filament									
0.7	12	0.4	2000	0.20	100	1,000	10	43679504	IBU 0,712/0,4 AO 2000 0,20
Silicon carbide (SiC) plastic filament									
1.2	12	0.5	1000	0.25	100	1,000	10	43679514	IBU 1,212/0,5 SiC 1000 0,25
1.9	18	0.7	1000	0.25	100	1,000	10	43679524	IBU 1,918/0,7 SiC 1000 0,25
2.2	18	0.9	1000	0.25	100	1,000	10	43679534	IBU 2,218/0,9 SiC 1000 0,25
2.6	25	1	1000	0.25	100	1,000	10	43679544	IBU 2,625/1,0 SiC 1000 0,25
3.2	25	1.7	2000	0.25	100	1,000	10	43679554	IBU 3,225/1,7 SiC 1000 0,25
3.5	25	1.7	1000	0.25	100	1,000	10	43679564	IBU 3,525/1,7 SiC 1000 0,25
Aluminium oxide (AO) plastic filament									
4.2	25	2.2	600	0.30	125	1,000	10	43679575	IBU 4,225/2,2 AO 600 0,30
4.8	25	2.2	600	0.30	125	1,000	10	43679585	IBU 4,825/2,2 AO 600 0,30
5.5	25	2.2	600	0.30	125	1,000	10	43679595	IBU 5,525/2,2 AO 600 0,30
6.6	25	2.9	600	0.30	125	1,000	10	43679605	IBU 6,625/2,9 AO 600 0,30
8.2	25	2.9	600	0.30	125	2,000	10	43679618	IBU 8,225/2,9 AO 600 0,30

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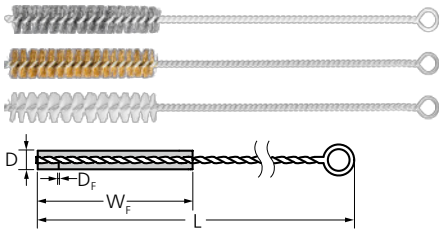
D [mm]	W_F [mm]	D_S [mm]	Grit size	D_F [mm]	L [mm]	Max. RPM		Item no.	Designation
9.8	25	3.2	600	0.30	125	2,000	10	43679619	IBU 9,825/3,2 AO 600 0,30
11.5	25	3.2	600	0.30	125	2,000	10	43679638	IBU 11,525/3,2 AO 600 0,30
13	25	3.7	600	0.30	125	2,000	10	43679639	IBU 1325/3,7 AO 600 0,30
16	25	3.7	600	0.30	125	2,000	10	43679658	IBU 1625/3,7 AO 600 0,30
20	25	4.7	600	0.30	125	2,000	10	43679698	IBU 2025/4,7 AO 600 0,30
25	25	4.7	600	0.30	125	2,000	10	43679738	IBU 2525/4,7 AO 600 0,30



IBU, with eyelet

For light cleaning and deburring work on threaded holes or recesses, e.g. keyways. Specially suited to brushing in manual applications.

Special features:
- Enable maximum precision and efficiency in work on delicate workpieces.
- Optimal access to hard-to-reach areas such as the inner surfaces of pipes and drilled holes.
- Creates fine surfaces.

D [mm]	W_F [mm]	L [mm]	D_F [mm]		Item no.	Designation
Steel wire (ST)						
3	100	300	0.10	10	43679401	IBU 03100 ST 0,10
4	100	300	0.15	10	43679411	IBU 04100 ST 0,15
5	100	300	0.15	10	43679421	IBU 05100 ST 0,15
6	100	300	0.15	10	43679201	IBU 06100 ST 0,15
8	100	300	0.15	10	43679211	IBU 08100 ST 0,15
10	100	300	0.15	10	43679221	IBU 10100 ST 0,15
12	100	300	0.15	10	43679231	IBU 12100 ST 0,15
15	100	300	0.15	10	43679241	IBU 15100 ST 0,15
18	100	300	0.15	10	43679481	IBU 18100 ST 0,15
20	100	300	0.15	10	43679251	IBU 20100 ST 0,15
25	100	300	0.15	10	43679261	IBU 25100 ST 0,15
30	100	300	0.15	10	43679271	IBU 30100 ST 0,15
Stainless steel wire (INOX)						
3	100	300	0.10	10	43679402	IBU 03100 INOX 0,10
4	100	300	0.15	10	43679412	IBU 04100 INOX 0,15
5	100	300	0.15	10	43679422	IBU 05100 INOX 0,15
6	100	300	0.15	10	43679203	IBU 06100 INOX 0,15
8	100	300	0.15	10	43679213	IBU 08100 INOX 0,15
10	100	300	0.15	10	43679223	IBU 10100 INOX 0,15
12	100	300	0.15	10	43679233	IBU 12100 INOX 0,15
15	100	300	0.15	10	43679243	IBU 15100 INOX 0,15
18	100	300	0.15	10	*43679482*	IBU 18100 INOX 0,15
20	100	300	0.15	10	43679253	IBU 20100 INOX 0,15
25	100	300	0.15	10	43679263	IBU 25100 INOX 0,15
30	100	300	0.15	10	43679273	IBU 30100 INOX 0,15
Brass wire (MES)						
3	100	300	0.10	10	43679403	IBU 03100 MES 0,10
4	100	300	0.15	10	43679413	IBU 04100 MES 0,15

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Discontinued product

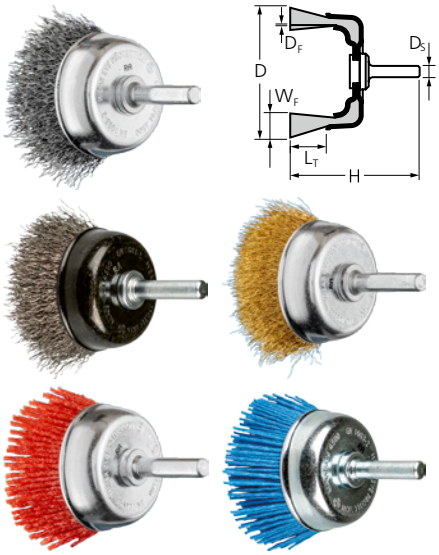
Tube brushes
Tube brushes

D [mm]	W_F [mm]	L [mm]	D_F [mm]		Item no.	Designation
5	100	300	0.15	10	43679423	IBU 05100 MES 0,15
6	100	300	0.15	10	43679202	IBU 06100 MES 0,15
8	100	300	0.15	10	43679212	IBU 08100 MES 0,15
10	100	300	0.15	10	43679222	IBU 10100 MES 0,15
12	100	300	0.15	10	43679232	IBU 12100 MES 0,15
15	100	300	0.15	10	43679242	IBU 15100 MES 0,15
18	100	300	0.15	10	43679483	IBU 18100 MES 0,15
20	100	300	0.15	10	43679252	IBU 20100 MES 0,15
25	100	300	0.15	10	43679262	IBU 25100 MES 0,15
30	100	300	0.15	10	43679272	IBU 30100 MES 0,15
Nylon plastic filament						
3	100	300	0.10	10	43679404	IBU 03100 Nylon 0,10
4	100	300	0.15	10	43679414	IBU 04100 Nylon 0,15
5	100	300	0.15	10	43679424	IBU 05100 Nylon 0,15
6	100	300	0.15	10	43679206	IBU 06100 Nylon 0,20
8	100	300	0.15	10	43679216	IBU 08100 Nylon 0,20
10	100	300	0.15	10	43679226	IBU 10100 Nylon 0,20
12	100	300	0.15	10	43679236	IBU 12100 Nylon 0,30
15	100	300	0.15	10	43679246	IBU 15100 Nylon 0,30
18	100	300	0.30	10	43679484	IBU 18100 Nylon 0,30
20	100	300	0.15	10	43679256	IBU 20100 Nylon 0,30
25	100	300	0.15	10	43679266	IBU 25100 Nylon 0,30
30	100	300	0.15	10	43679276	IBU 30100 Nylon 0,30

Universal brushes
Universal brushes

The Universal Line offers a range of brushes in the most common profiles and dimensions. Developed for general and cost-efficient use and for the most common applications. Manufactured to the usual high quality standards according to EN 1083.

Shank-mounted universal cup brushes, crimped



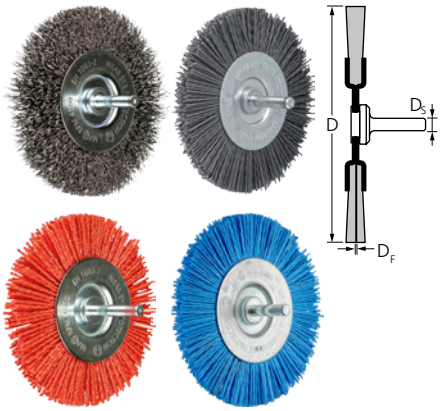
TBU, for power drills

Generally suitable for cleaning, derusting and smoothing, as well as removal of corrosion and paint. Particularly suitable for brushing on large, flat and easily accessible surfaces due to face-down use with the entire brush face applied to the workpiece. Specially developed for use within a low rotational speed range on cordless drills and power drills.

Special features:
- Highly flexible, enabling optimal adjustment to the workpiece contour.
- Creates fine surfaces.

D [mm]	D_S [mm]	Grit size	D_F [mm]	Max. RPM		Item no.	Designation
Steel wire (ST)							
50	6	-	0.30	4,500	1	43740162	POS TBU 50/6 ST 0,30 UNIVERSAL (1)
Stainless steel wire (INOX)							
50	6	-	0.30	4,500	1	43740163	POS TBU 50/6 INOX 0,30 UNIVERSAL (1)
Brass wire (MES)							
50	6	-	0.20	4,500	1	43740164	POS TBU 50/6 MES 0,20 UNIVERSAL (1)
Plastic filament, coarse (RED)							
50	6	80	1.27	4,500	1	43740165	POS TBU 50/6 RED 80 UNIVERSAL (1)
Plastic filament, fine (BLUE)							
50	6	180	1.10	4,500	1	43740166	POS TBU 50/6 BLUE 180 UNIVERSAL (1)

Universal brushes
Shank-mounted universal wheel brushes, crimped



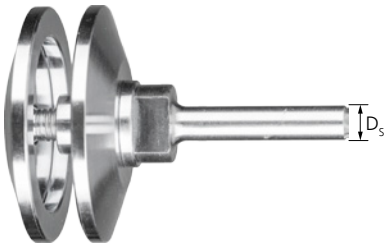
RBU, for power drills

Generally suitable for cleaning, derusting, smoothing, cleaning of weld seams, light deburring, and removal of corrosion and paint. Specially developed for use within a low rotational speed range on cordless drills and power drills.

Special features:

- Highly flexible, enabling optimal adjustment to the workpiece contour.
- Creates fine surfaces.

D [mm]	D_S [mm]	Grit size	D_F [mm]	Max. RPM		Item no.	Designation
Steel wire (ST)							
100	6	-	0.30	4,500	1	43740167	POS RBU 10012/6 ST 0,30 UNIVERSAL (1)
Plastic filament, coarse (RED)							
100	6	80	1.27	4,500	1	43740168	POS RBU 10010/6 RED 80 UNIVERSAL (1)
Plastic filament, fine (BLUE)							
100	6	180	1.10	4,500	1	43740169	POS RBU 10010/6 BLUE 180 UNIVERSAL (1)

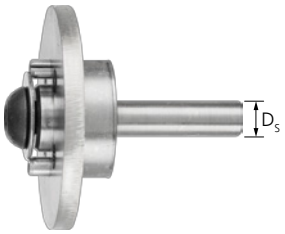


Arbor for wheel brushes

Enable use of wheel brushes with arbor hole on tool drives with collet, e.g. electric straight grinders and flexible shaft drives.

Special features:
- Secure hold of the brush thanks to highly accurate fit.

D_S [mm]	Suitable for brush diameter [mm]	Suitable for hole diameter D_A / D_M [mm]	Suitable for		Item no.	Designation
8	100, 115, 125	12, 14	Wheel brushes RBU	1	43595061	BO 8/12-14 100-125
		22.2	Wheel brushes RBG	1	43595051	BO 8/22,2 100-125
12	150, 180	22.2	Wheel brushes RBU, RBUP and RBG	1	43595062	BO 12/22,2 150-180
	200	22.2	Wheel brushes RBU, RBUP and RBG	1	43595063	BO 12/22,2 200

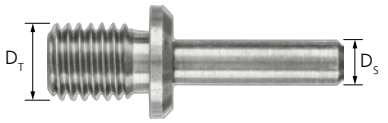


Arbor for composite disc brushes

Enable use of composite disc brushes with arbor hole. Suitable for stationary applications with threaded cup brushes on CNC machines, automated centres and robots.

Special features:
- Secure hold of the brush thanks to highly accurate fit.

D_S [mm]	Suitable for brush diameter [mm]	Suitable for hole diameter D_A / D_M [mm]	Suitable for		Item no.	Designation
12	75–100	22.2	Composite disc brushes DBU	1	43595104	BO 12/22,2 75-100
	125–150	22.2	Composite disc brushes DBU	1	43595105	BO 12/22,2 125-150



Arbor for POLISCRATCH

For mounting POLISCRATCH brushes on straight grinders, flexible shafts or power drills.

Special features:
- Secure hold of the brush thanks to highly accurate fit.

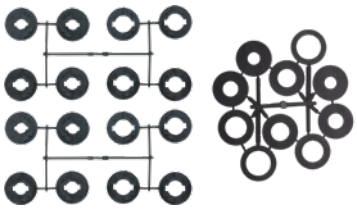
D_T	D_S [mm]	Suitable for		Item no.	Designation
M14x2	8	Wheel brushes RBU, POLISCRATCH	1	43595014	BO 8/M14

Arbor for cup brushes

Enable the use of cup brushes on tool drives with a collet. Also suitable for stationary applications with threaded cup brushes on CNC machines, automated centres and robots. Weldon shank according to DIN 6535.

Special features:
- Secure hold of the brush thanks to highly accurate fit.

D_S [mm]	Suitable for brush diameter [mm]	Suitable for		Item no.	Designation
12	65–80	Cup brushes TBG and TBU	1	79183976	BO 12/SW22 65-80
20	100	Cup brushes TBG and TBU	1	79183977	BO 20/SW27 100



Adapter set AK 32

The adapter set AK 32 is suitable for wheel brushes with a brush diameter from 150 mm in the narrow versions.

Special features:
- Enable the use of brushes on all tool drives as the hole diameter is adjusted to the required dimension.
- Secure hold of the brush thanks to highly accurate fit.

Suitable for	Centre hole dia. D_A included [mm/inch]		Item no.	Designation
RBU, slim type ≥ dia. 150 mm	20/18/14/12/25.4 (1)/22.2 (7/8)/16 (5/8)/ 12.7 (1/2)	1	43690100	AS AK 32

Adapter set AK 32-2

The adapter set AK 32-2 is suitable for wheel brushes with a brush diameter from 150 mm in the wide versions.

Special features:
- Enable the use of brushes on all tool drives as the hole diameter is adjusted to the required dimension.
- Secure hold of the brush thanks to highly accurate fit.

Suitable for	Centre hole dia. D_A included [mm/inch]		Item no.	Designation
RBU, wide type ≥ dia. 150 mm	31.75/20/18/14/12/25.4 (1)/22.2 (7/8)/ 19.2 (3/4)/16 (5/8)/12.7 (1/2)	1	43690102	AS AK 32-2

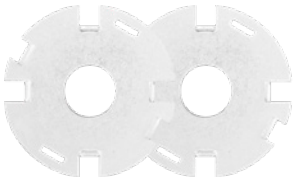
Adapter pairs AM 50.8-C

The adapter pair AM 50.8-C is suitable for wheel brushes with a brush diameter from 150 mm in the wide and composite versions.

Contents:
An AM 50.8-C set contains 1 adapter pair.

Special features:
- Enable the use of brushes on all tool drives as the hole diameter is adjusted to the required dimension.
- Secure hold of the brush thanks to highly accurate fit.

Suitable for	Centre hole dia. D_A included [mm/inch]		Item no.	Designation
RBU, wide type ≥ dia. 150 mm, RBUP, composite type ≥ dia. 150 mm	14	1	43690014	AP AM 50,8/14,0
	16	1	43690016	AP AM 50,8/16,0
	20	1	43690020	AP AM 50,8/20,0
	22.2	1	43690022	AP AM 50,8/22,2
	25.4	1	43690025	AP AM 50,8/25,4
	30	1	43690030	AP AM 50,8/30,0
	32	1	43690032	AP AM 50,8/32,0
	35	1	43690033	AP AM 50,8/35,0



Adapter pair APM 50.8

The adapter pair APM 50.8 is suitable for knotted wheel brushes with diameter 200–250 mm and crimped wheel brushes designed as deburring brushes.

Contents:
An APM 50.8 set contains 3 adapter pairs.

Special features:
- Enable the use of brushes on all tool drives as the hole diameter is adjusted to the required dimension.
- Secure hold of the brush thanks to highly accurate fit.

Suitable for	Centre hole dia. D_A included [mm/inch]		Item no.	Designation
RBG, knotted wheel brushes, dia. 200–250 mm, RBU, deburring brush type dia. 200–250 mm	16/18/20	1	43690035	APM 50,8/16-20
	22.2/25.4/30	1	43690036	APM 50,8/22,2-30
	32/35/40	1	43690037	APM 50,8/32-40

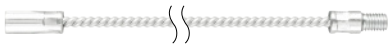
Accessories for tube brushes

Quick-change handle SWG

Suitable for manual work with tube brushes.

Special features:
- Comfortable to use thanks to ergonomic shape.
- Combine with the IBUV extensions in order to access hard-to-reach areas.

L [mm]	Thread		Item no.	Designation
135	M6	1	43690208	SWG-M6
	3/8 BSW	1	43690209	SWG-3/8 BSW
	1/2 BSW	1	43690207	SWG-1/2 BSW
150	Collet 6 mm	1	43690210	SWG-6

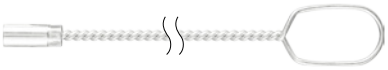


IBUV extension

Suitable for work with tube brushes with a thread.

Special features:
- Optimal access to hard-to-reach areas.
- To achieve a longer overall length, combine the IBUV extensions with the IBUS wire stems or with the SWG quick-change handles.

L [mm]	Thread	Outer dia. of screw socket [mm]		Item no.	Designation
300	M6	12	1	43690211	IBUV M6 300
	3/8 BSW	12	1	43690212	IBUV 3/8 BSW 300
	1/2 BSW	16	1	43690203	IBUV 1/2 BSW 300
1,000	M6	12	1	43690200	IBUV M6 1000
	3/8 BSW	12	1	43690201	IBUV 3/8 BSW 1000
	1/2 BSW	16	1	43690202	IBUV 1/2 BSW 1000

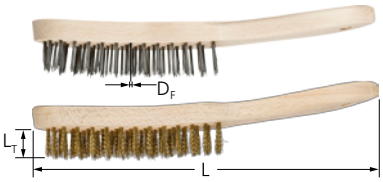


IBUS wire stem

Suitable for work with tube brushes with a thread.

Special features:
- Optimal access to hard-to-reach areas.
- To achieve a longer overall length, combine the IBUS wire stem with the IBUV extensions.

L [mm]	Thread	Outer dia. of screw socket [mm]		Item no.	Designation
300	M6	12	1	43690213	IBUS M6 300
	3/8 BSW	12	1	43690214	IBUS 3/8 BSW 300
	1/2 BSW	16	1	43690215	IBUS 1/2 BSW 300
1,000	M6	12	1	43690204	IBUS M6 1000
	3/8 BSW	12	1	43690205	IBUS 3/8 BSW 1000
	1/2 BSW	16	1	43690216	IBUS 1/2 BSW 1000

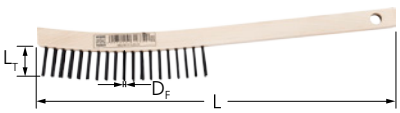


HBU, universal use

Generally suitable for all light cleaning and derusting work.

Special features:
- Optimum presentation on the PFERD TOOLS CENTER using hanging hole and labelling with EAN number, designation and filament material.

Rows	L_T [mm]	L [mm]	D_F [mm]		Item no.	Designation
Steel wire (ST)						
1	25	290	0.35	10	*43670011*	HBU 10 ST 0,35
2	25	290	0.35	10	43671001	HBU 20 ST 0,35
3	25	290	0.35	50	*43672004*	HBU 30 GP ST 0,35
				10	43672001	HBU 30 ST 0,35
4	25	290	0.35	50	*43673004*	HBU 40 GP ST 0,35
				10	43673001	HBU 40 ST 0,35
5	25	290	0.35	50	*43670004*	HBU 50 GP ST 0,35
				10	43670001	HBU 50 ST 0,35
6	25	290	0.35	10	*43673111*	HBU 60 ST 0,35
Stainless steel wire (INOX)						
1	25	290	0.30	10	*43670013*	HBU 10 INOX 0,30
2	25	290	0.30	10	43671003	HBU 20 INOX 0,30
3	25	290	0.30	10	43672003	HBU 30 INOX 0,30
4	25	290	0.30	50	43673005	HBU 40 GP INOX 0,30
				10	43673003	HBU 40 INOX 0,30
5	25	290	0.30	10	43670003	HBU 50 INOX 0,30
6	25	290	0.35	10	*43673113*	HBU 60 INOX 0,30
Brass wire (MES)						
2	25	290	0.30	10	43671002	HBU 20 MES 0,30
3	25	290	0.30	10	43672002	HBU 30 MES 0,30
4	25	290	0.30	10	43673002	HBU 40 MES 0,30
5	25	290	0.30	10	43670002	HBU 50 MES 0,30



HBU LH, Long Handle

Suitable for cleaning, derusting, and cleaning of weld seams and surfaces. Extra-long handle.

Special features:
- Optimum presentation on the PFERD TOOLS CENTER using hanging hole and labelling with EAN number, designation and filament material.

Rows	L_T [mm]	L [mm]	D_F [mm]		Item no.	Designation
Steel wire (ST)						
3	25	350	0.35	10	43672011	HBU LH 30 ST 0,35
4	25	350	0.35	10	43673011	HBU LH 40 ST 0,35

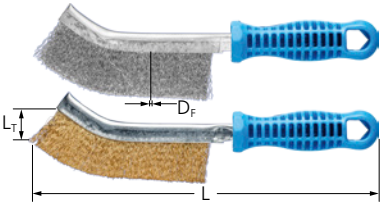
Discontinued product

HBK, for fillet welds

Suitable for cleaning and derusting fillet welds and V-shaped welds thanks to the V shape.

Special features:
- Optimum presentation on the PFERD TOOLS CENTER using hanging hole and labelling with EAN number, designation and filament material.

Rows	L_T [mm]	L [mm]	D_F [mm]		Item no.	Designation
Steel wire (ST)						
3	35	290	0.35	10	43676001	HBK 30 ST 0,35
Stainless steel wire (INOX)						
3	35	290	0.35	10	43676003	HBK 30 INOX 0,35

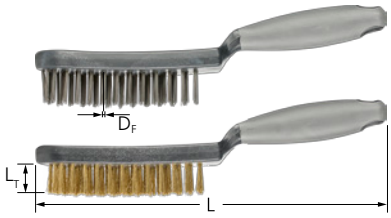


HBG, curved

Excellent for cleaning work in hard-to-reach areas, e.g. angles, corners and pipes.

Special features:
- Optimum presentation on the PFERD TOOLS CENTER using hanging hole and labelling with EAN number, designation and filament material.

Rows	L_T [mm]	L [mm]	D_F [mm]		Item no.	Designation
Steel wire (ST) – ST = brass-plated steel wire						
1	25	265	0.30	10	43660001	HBG 10 ST 0,30
Stainless steel wire (INOX)						
1	25	265	0.30	10	43662003	HBG 10 INOX 0,30
Brass wire (MES)						
1	25	265	0.30	10	43662002	HBG 10 MES 0,30



HBUP, plastic body

Generally suitable for all light cleaning and derusting work.

Special features:
- Safe and ergonomic working thanks to curved two-component handle.
- Optimum presentation on the PFERD TOOLS CENTER using hanging hole and labelling with EAN number, designation and filament material.

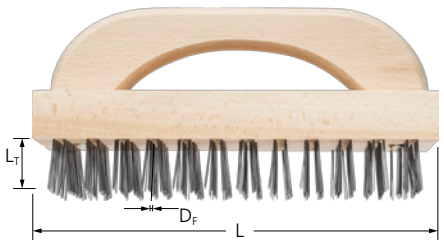
Rows	L_T [mm]	L [mm]	D_F [mm]		Item no.	Designation
Steel wire (ST)						
3	25	290	0.40	10	43674503	HBUP 30 ST 0,40
4	25	290	0.40	10	43674504	HBUP 40 ST 0,40
Stainless steel wire (INOX)						
2	25	290	0.40	10	43674510	HBUP 20 INOX 0,40
3	25	290	0.40	10	43674511	HBUP 30 INOX 0,40
4	25	290	0.40	10	43674512	HBUP 40 INOX 0,40
Brass wire (MES)						
3	25	290	0.30	10	43674507	HBUP 30 MES 0,30
4	25	290	0.30	10	43674508	HBUP 40 MES 0,30

HBZ, for spark plugs

Particularly well suited to cleaning spark plugs, small workpieces and tools.

Special features:
- Excellent for the precise cleaning of small weld seams.
- Optimum presentation on the PFERD TOOLS CENTER using hanging hole and labelling with EAN number, designation and filament material.

Rows	L_T [mm]	L [mm]	D_F [mm]		Item no.	Designation
Brass wire (MES)						
3	15	145	0.15	10	43677002	HBZ 30 MES 0,15

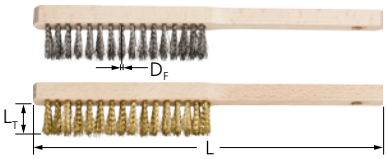


HBB, block brushes with a handle

Robust block brush made from wood for heavy-duty cleaning work.

Special features:
- Excellent for cleaning concrete mouldings.
- Ergonomic working thanks to curved handle.

Rows	L_T [mm]	L [mm]	D_F [mm]		Item no.	Designation
Steel wire (ST)						
8	35	235	0.45	12	43678003	HBB 80 ST 0,45

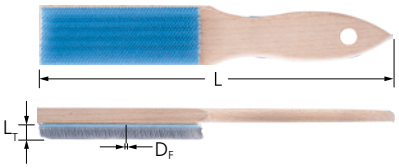


HBFM, for precision mechanics

Excellent for light brushing on fine surfaces.

Special features:
- Optimum presentation on the PFERD TOOLS CENTER using hanging hole and labelling with EAN number, designation and filament material.

Rows	L_T [mm]	L [mm]	D_F [mm]		Item no.	Designation
Steel wire (ST)						
4	20	220	0.15	10	43674001	HBFM 40 ST 0,15
Stainless steel wire (INOX)						
4	20	220	0.15	10	43674003	HBFM 40 INOX 0,15
Brass wire (MES)						
4	20	220	0.15	10	43674002	HBFM 40 MES 0,15



HBF, for files

The file brush effortlessly cleans chips from a clogged file.

Special features:
- Optimum presentation on the PFERD TOOLS CENTER using hanging hole and labelling with EAN number, designation and filament material.

Rows	L_T [mm]	L [mm]	D_F [mm]		Item no.	Designation
Steel wire (ST)						
1	7	232	0.30	5	12601000	HBF 10 ST 0,30

PFERD
TOOLS
PFERD
TOOLS
L
M1
M2
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RCK-System
R
M3
M4
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PFERD TOOLS
51709 Marienheide
Germany
PFERD TOOLS

Tool drives

Tool drives
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Tool drives
Highlights from the PFERD TOOLS range

Robot spindle PGAS 4/52 RS

PFERD TOOLS robot spindles are manufactured according to the most stringent quality criteria and the latest technological standards, and are ideal for stationary applications in robot cells and machine tools and for installation in transfer lines. Scan the QR code to find out more about PFERD TOOLS' range of robot spindles.

Advantages:
- High torque due to planetary gear.
- Very high concentricity in continuous use.
- Double spindle bearing for a longer tool life.

Electric straight grinder EGER E

The electric straight grinder with elastic bearing meets the highest technical standards and is tailored to the latest ergonomic requirements. The elastic bearing noticeably reduces vibrations, making day-to-day work more ergonomic. The integrated digital electronics enable users to maintain control of the rotational speed – which remains constant during use. This makes the electric straight grinder ideal for use with burrs. Scan the QR code to find out more about PFERD TOOLS' range of electric straight grinders.

Advantages:
- The elastic bearing reduces vibrations, while the digital electronics keep the rotational speed constant – ideal for burrs.
- The stepless rotational speed regulation allows the use of various types of tools on one single tool drive.
- Smooth start-up to protect people, tools and the drive.

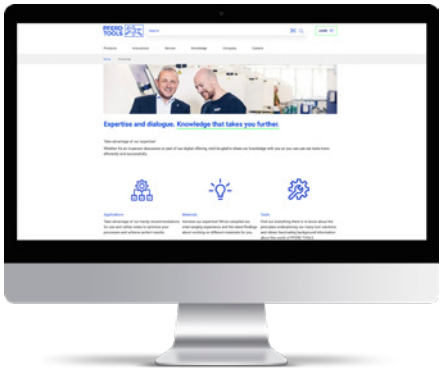
RCK drive system

The RCK drive system with stepless rotational speed regulation is an innovative solution that combines maximum productivity with significant ergonomic benefits. The system produces less noise and lower vibrations than conventional drives. In combination with the mobile control device and various handpieces, the system is particularly light, comfortable and flexible to use for operators. Scan the QR code to find out more about PFERD TOOLS' RCK drive system.

Advantages:
- Boosts productivity by up to 50% thanks to constant rotational speed.
- Comfortable, ergonomic working with fast, optimal results.
- Can be used with a battery for mobile use or a power supply unit, for a variety of industrial applications.

More expert information online

Scan the QR code to find out a wide range of tool and application knowledge relating to PFERD TOOLS' high-quality tools and their huge variety of materials.



Tool drives
General information

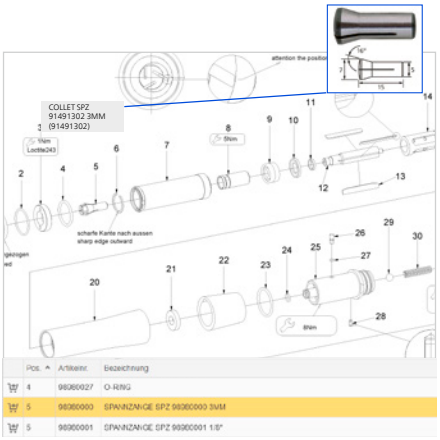
The PFERD TOOLS range includes tool drives for grinding, milling, brushing, cutting and polishing in manual applications as well as in robotic and semi-stationary applications. PFERD TOOLS is one of only a few manufacturers that can offer a wide range of tools for work on surfaces and cutting of materials, as well as drives designed specifically for these tools, all from a single source.

The wide product range includes air and electric grinders as well as drive systems with DIN 10/DIN 15 and thus offers the best solution for almost any working environment.

Tool drives from PFERD TOOLS are characterized by their performance and durability. They are less prone to faults and comply with the latest technological standards.

Spare parts catalogue

In our online spare parts catalogue, we have compiled all the information about every PFERD TOOLS drive. Here you will find exploded drawings and other sketches as well as photos and ordering data for each individual spare part for our drives. With just a few clicks, you can select the required spare parts or spare parts kits, add them to your shopping cart and order them online directly from PFERD TOOLS.



If you ever misplace the operating instructions, you can find them in our spare parts catalogue for download along with other documents such as CE declarations of conformity and illustrated DIY instructions for minor repairs.

You can find our clearly structured online spare parts catalogue at **spareparts.pferd.com**.

In the information area you can see which documents are available for download.

Move your mouse over the different spare parts for your tool drive from PFERD TOOLS to see the exact product specifications. Clicking on the relevant code displays more information and a product image. In the lower section of the image, you have the option of adding the selected spare parts directly to the shopping cart and ordering them.

Scan the QR code to access the online spare parts catalogue.

Tool drives
General information

PFERD TOOLS

Explanation of pictograms used

General

80.000 RPM	Rotational speed
5 - 11 m/s	Belt speed
500 W	Power output
14 mm	Matching open-ended wrenches
5 mm	Matching hexagon socket wrenches
25 mm	Matching face pin spanners
4 mm	Matching Allen keys

Tool mounting

	Clamping range
6 mm	Collet
M14	Stud bolt
22,23 mm	Centre hole
36 mm	Guard
125 mm	Suitable for disc diameter
19 x 100 mm	Suitable for grinding drum fitting
520/610 x 9 - 12 mm	Belt dimensions

Air grinders

3 Oil /min	Information on use – oil
Oil	Can be used without oil
max. 6,3 bar	Air pressure
12 mm	Air supply hose diameter

Electric grinders and flexible shaft drives

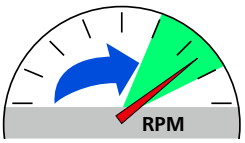
230 V 1~	Voltage
50 Hz	Frequency
	Protectively insulated in accordance with protection class II
	Protectively earthed in accordance with protection class I
	Safety transformer
	Safety extra-low voltage in accordance with protection class III

Flexible shafts

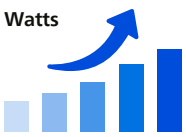
DIN 10	Drive-side shaft connection
G22	Handpiece-side sliding coupling

Criteria for selecting the optimum drive

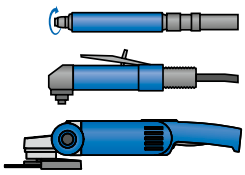
An important prerequisite for cost-effective work is selecting the optimum tool. The appropriate drive is selected taking the following criteria into consideration:



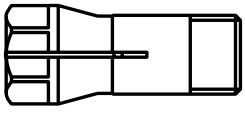
1. Rotational speed
The drive should always be selected according to the rotational speed and cutting speed recommendations for the tool. Refer to catalogue sections 2 to 8 for these recommendations.



2. Power output
The drive's power output is the decisive factor for maintaining the rotational speed under load. The load is determined by the material to be machined, the cutting characteristics of the tool and the contact pressure.



3. Design, shape and size
Each type of application places specific demands on the design and size of the tool drive. The different designs can be used for various applications,



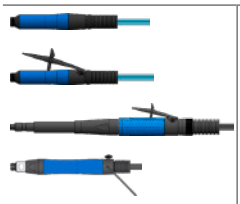
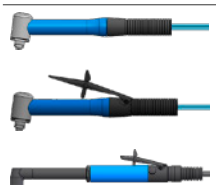
4. Tool mounting
Depending on the selected product from PFERD TOOLS, different tool mountings are available, e.g. collets or threaded spindles. Matching collets are allocated to every drive. Please refer to the accessories for tool drives in this catalogue for an overview of collets and spindle extensions. If you have any further questions, your personal PFERD TOOLS sales representative will be happy to help you.

Tool drives
What the machine designations mean

The PFERD TOOLS machine designations are structured to provide information about the drive type, as well as designs, throttle types and tool mountings. They also enable you to quickly and easily select the right rotational speed and performance classes for the various machine types.

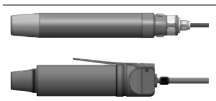
The following overview provides a concise summary:

Tool drives
What the machine designations mean

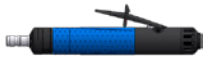
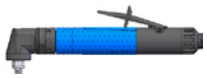
Figure	Description				Performance group	Rotational speed	Designs, throttle types, tool mountings
Robot spindles							
	P Pneumatic	**G** Straight grinder	**T** Turbine motor	**S** Collet	**1** x 100 watts	**1000** x 100 RPM	**RS** Robot spindle
	P Pneumatic	**G** Straight grinder	**A** Rear exhaust	**S** Collet	**3** x 100 watts	**370** x 100 RPM	**RS** Robot spindle **LL** Linkslauf
	P Pneumatic	**W** Rear exhaust	**A** Rear exhaust	**S** Collet	**4** x 100 watts	**180** x 100 RPM	**RS** Robot spindle
Air grinders							
	**P** Pneumatic	**G** Straight grinder	**A** Rear exhaust	**S** Collet	**2** x 100 watts	**800** x 100 RPM	**E** Elastic bearing **Z** Two-handed **M** Medium length **ME** Medium length with elastic bearing **B** Wide extension **V** Extended **DV** Ring throttle **HV** Lever throttle **DS** Instant start
	**P** Pneumatic	**W** Rear exhaust	**A** Rear exhaust	**S** Collet	**1** x 100 watts	**800** x 100 RPM	**DV** Ring throttle **HV** Lever throttle **HEX 3MM** 3 mm hexagonal tool mounting
	P Pneumatic	**B** Belt grinder	**A** Rear exhaust		**2** x 100 watts	**200** x 100 RPM	**HV** Lever throttle **oVA** Without attachment arm
	P Pneumatic	**H** Hammer	**13** Weight x 100 g	**P** Pistol grip			**EG01** Insertion group 01
	P Pneumatic	**H** Hammer	**13** Weight x 100 g	**F** Fist grip			**EG03** Insertion group 03
	P Pneumatic	**H** Hammer	**18** Weight x 100 g	**F** Fist grip			**EG03** Insertion group 03
				F-SK Fist grip with screw cap			**EG05** Insertion group 05

Tool drives
What the machine designations mean

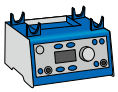
PFERD TOOLS

Figure	Description				Performance group	Rotational speed	Designs, throttle types, tool mountings
	P Pneumatic	**H** Hammer	**66** Weight x 100 g	**F-SK** Fist grip with screw cap			**EG06** Insertion group 06
	P Pneumatic	**H** Hammer (chipping hammer)			**8** stroke length mm	**90** x 100 strokes per minute	**HV** Lever throttle
	**P** Pneumatic	**F** Filing machine			**4** stroke length mm	**84** x 100 strokes per minute	**SV** Push-pull throttle **HV** Lever throttle
	P Pneumatic	**N** Needle scaler	**18** Number of needles				**HV** Lever throttle
	P Pneumatic	**N** Needle scaler	**28** Number of needles	**P** Pistol grip			
	MST Marking pen					**32** x 1000 Hub pro Minute	**DV** Ring throttle **F** Needle gauge: fine

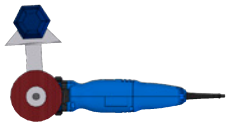
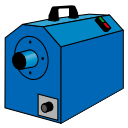
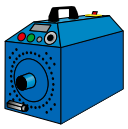
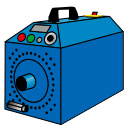
RCK drive system

	RCK RCK	**STG** Control device			**10** x 100 watts	**800** x 100 RPM	
Performance class up to 200 watts							
	RCK RCK	**G** Straight grinder	**S** Collet		**2** x 100 watts	**800** x 100 RPM	**VS** Extended spindle **SP** Keyless quick-mounting system
	RCK RCK	**W** Rear exhaust	**S** Collet		**1** x 100 watts	**300** x 100 RPM	**45°** 45 degree angle handpiece **90°** 90 degree angle handpiece
Performance class 400 watts							
	**RCK** RCK	**G** Straight grinder	**S** Collet		**4** x 100 watts	**400** x 100 RPM	
	**RCK** RCK	**W** Rear exhaust	**S** Collet		**4** x 100 watts	**200** x 100 RPM	**90°** 90 degree angle handpiece
	RCK RCK	**B** Belt grinder			**4** x 100 watts	**200** x 100 RPM	

MIM drive system

	**MIM** Micro motor	**STG** Control device	**3** Version	**S** with switch	**3** x 100 watts	**800** x 100 RPM	
	MIM Micro motor	**HA** Straight handpiece		**S** with switch	**3** x 100 watts	**800** x 100 RPM	**VS** Extended spindle **SP** Keyless quick-mounting system **3** Incl. collet dia. in mm

Tool drives
What the machine designations mean

Figure	Description				Performance group	Rotational speed	Designs, throttle types, tool mountings
	MIM Micro motor	**WZ** Angle handpiece		**S** with switch	**3** x 100 watts	**300** x 100 RPM	**90°** 90 degree angle handpiece **S** Collet **3** Incl. collet dia. in mm
Electric grinders							
	E Electric	**G** Straight grinder	**ER** Electronically regulated		**8** x 100 watts	**280** x 100 RPM	**E** Elastic bearing
	E Electric	**B** Belt grinder	**ER** Electronically regulated		**17** x 100 watts	**75** x 100 RPM	
	E Electric	**B** Belt grinder	**ER** Electronically regulated		**8** x 100 watts	**280** x 100 RPM	
	E Electric	**W** Angle grinder	**ER** Electronically regulated		**12** x 100 watts	**25** x 100 RPM	**R** Pipe belt grinder
	**E** Electric	**S** Burnishing machine	**ER** Electronically regulated		**12** x 100 watts	**25** x 100 RPM	
DIN 10/DIN 15 drive systems							
	E Electric	**M** Motor	**ER** Electronically regulated		**8** x 100 watts	**280** x 100 RPM	**BW** Flexible shaft
	R Record	**U** Universal motor	**ER** Electronically regulated		**8** x 100 watts	**180** x 100 RPM	
	**MME** Mini Mammoth electronic		**W** Alternating current		**11** x 100 watts	**120** x 100 RPM	
	**ME** Mammoth electronic		**W** Alternating current		**18** x 100 watts	**240** x 100 RPM	
	**MME** Maxi Mammoth electronic				**40** x 100 watts	**150** x 100 RPM	
	P Pneumatic	**M** Motor	**A** Rear exhaust		**10** x 100 watts	**120** x 100 RPM	**HV** Lever throttle
	E Electric	**M** Motor	**ER** Electronically regulated		**8** x 100 watts	**280** x 100 RPM	

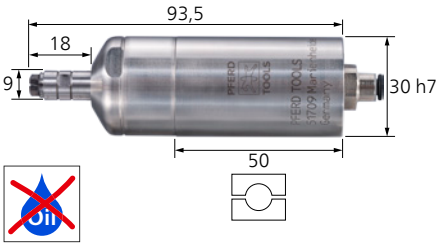
Robot spindles for stationary applications
General information

Custom-made products

If you cannot find the solution for your particular application in our comprehensive product range, we are happy to produce robot spindles to meet your preferences and requirements. Our sales representatives and technical advisers will be happy to assist you in analyzing your task. Simply contact us to arrange an appointment. You can find our worldwide sales office addresses at **www.pferd.com**.

On request, robot spindles can be supplied with deflection, in a reversible design, with clockwise or anti-clockwise rotation and with a tool change system.

Robot spindles for air-powered straight grinders



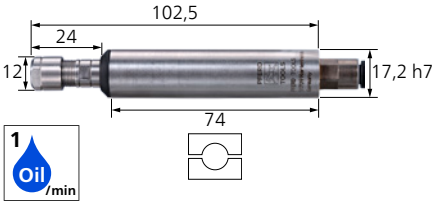
PGTS 1/1000 RS

Robot spindle manufactured according to the most stringent quality criteria and the latest technological standards with clockwise rotation and exhaust directed to the front. Suitable for stationary applications in robot cells and machine tools and for installation in transfer lines.

Contents:
Quick coupling (BK 4 mm - 1/4"), 3 mm collet (collet group 15), 2 keys (DM SW 6/8 mm).

Special features:
- Stainless steel collet mounting.
- Very high concentricity in continuous use.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Inner dia./outer dia. of air supply hose [mm]	Net weight [kg]	Item no.	Designation
100,000	100	0.32	0.32	2.7 / 4	0.296	80115012	PGTS 1/1000 RS



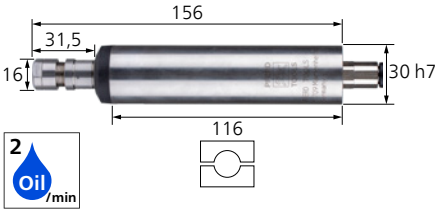
PGAS 2/800 RS

Robot spindle manufactured according to the most stringent quality criteria and the latest technological standards with clockwise rotation and exhaust directed to the rear. Suitable for stationary applications in robot cells and machine tools and for installation in transfer lines.

Contents:
Quick coupling (BK 6 mm - 1/4"), 3 mm collet (collet group 23), 2 keys (1x EM SW 9 mm, 1x EM SW 10 mm).

Special features:
- High rotational speeds in a compact design.
- Very high concentricity in continuous use.
- Double spindle bearing for a longer tool life.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Inner dia./outer dia. of air supply hose [mm]	Net weight [kg]	Item no.	Designation
80,000	110	0.2	0.18	4 / 6	0.110	80115010	PGAS 2/800 RS



PGAS 3/370 RS | PGAS 3/370 RS LL

Robot spindle manufactured according to the most stringent quality criteria and the latest technological standards with clockwise rotation (LL: anti-clockwise) and exhaust directed to the rear. For stationary applications in robot cells and machine tools and for installation in transfer lines.

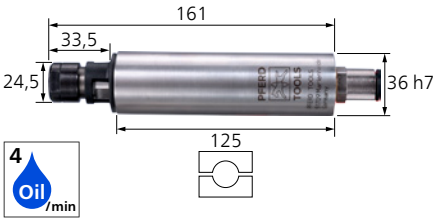
Contents:
Quick coupling (BK 8 mm - 1/4"), 6 mm collet (collet group 21), 2 keys (EM SW 14 mm).

Special features:
- Stainless steel collet mounting.
- Very high concentricity in continuous use.
- Double spindle bearing for a longer tool life.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Inner dia./outer dia. of air supply hose [mm]	Net weight [kg]	Item no.	Designation
37,000	320	0.7	0.5	6 / 8	0.456	80115011	PGAS 3/370 RS
		0.8	0.6	6 / 8	0.456	80115013	PGAS 3/370 RS LL

Robot spindles for stationary applications

Robot spindles for air-powered straight grinders



PGAS 4/280 RS

Robot spindle manufactured according to the most stringent quality criteria and the latest technological standards with clockwise rotation and exhaust directed to the rear. Suitable for stationary applications in robot cells and machine tools and for installation in transfer lines.

Contents:
Quick coupling (BK 12 mm - 1/4"),
6 mm collet (collet group 16), 2 keys
(1x EM SW 17 mm, 1x DM SW 20/22 mm).

Special features:
- Stainless steel collet mounting.
- Very high concentricity in continuous use.
- Double spindle bearing for a longer tool life.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Inner dia./outer dia. of air supply hose [mm]	Net weight [kg]	Item no.	Designation
28,000	380	0.89	0.69	10 / 12	0.750	80115014	PGAS 4/280 RS

PGAS 4/220 RS

Robot spindle manufactured according to the most stringent quality criteria and the latest technological standards with clockwise rotation and exhaust directed to the rear. Suitable for stationary applications in robot cells and machine tools and for installation in transfer lines.

Contents:
Quick coupling (BK 12 mm - 1/4"),
6 mm collet (collet group 16), 2 keys
(1x EM SW 17 mm, 1x DM SW 20/22 mm).

Special features:
- Stainless steel collet mounting.
- Very high concentricity in continuous use.
- Double spindle bearing for a longer tool life.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Inner dia./outer dia. of air supply hose [mm]	Net weight [kg]	Item no.	Designation
22,000	400	0.71	0.51	10 / 12	0.974	80106002	PGAS 4/220 RS

PGAS 8/170 RS

Robot spindle manufactured according to the most stringent quality criteria and the latest technological standards with clockwise rotation and exhaust directed to the rear. Suitable for stationary applications in robot cells and machine tools and for installation in transfer lines.

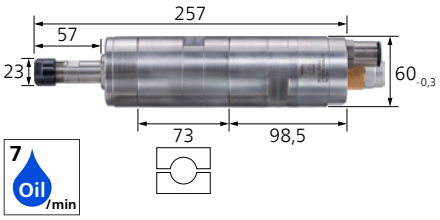
Contents:
Quick coupling (BK 12 mm - 1/4"),
6 mm collet (collet group 16), 2 keys
(1x EM SW 17 mm, 1x DM SW 20/22 mm).

Special features:
- Stainless steel collet mounting.
- Very high concentricity in continuous use.
- Double spindle bearing for a longer tool life.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Inner dia./outer dia. of air supply hose [mm]	Net weight [kg]	Item no.	Designation
17,000	800	1.15	0.95	10 / 12	1.668	80115015	PGAS 8/170 RS

Robot spindles for stationary applications

Robot spindles for air-powered straight grinders



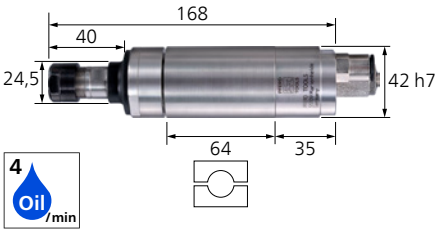
PGAS 11/58 RS

Robot spindle manufactured according to the most stringent quality criteria and the latest technological standards with clockwise rotation and exhaust directed to the rear. Suitable for stationary applications in robot cells and machine tools and for installation in transfer lines.

Contents:
Quick coupling (BK 14 mm - 1/2"), speed throttle, 6 mm collet (collet group 16), 2 keys (1x EM SW 17 mm, 1x DM SW 20/22 mm).

Special features:
- High torque due to planetary gear.
- Very high concentricity in continuous use.
- With stainless steel collet mounting and double spindle bearing for a longer tool life.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Inner dia./ outer dia. of air supply hose [mm]	Exhaust hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
5,800	1,100	1.58	1.38	11 / 14	16	3.355	80115016	PGAS 11/58 RS



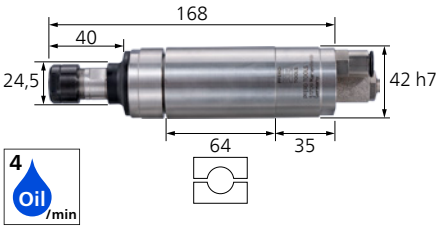
PGAS 4/52 RS

Robot spindle manufactured according to the most stringent quality criteria and the latest technological standards with clockwise rotation and exhaust directed to the rear. Suitable for stationary applications in robot cells and machine tools and for installation in transfer lines.

Contents:
Quick coupling (BK 10 mm - 1/4"), speed throttle, 6 mm collet (collet group 16), 2 keys (1x EM SW 17 mm, 1x DM SW 20/22 mm).

Special features:
- High torque due to planetary gear.
- Very high concentricity in continuous use.
- With stainless steel collet mounting and double spindle bearing for a longer tool life.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Inner dia./ outer dia. of air supply hose [mm]	Exhaust hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
5,200	380	0.71	0.51	8 / 10	12	1.140	80115017	PGAS 4/52 RS



PGAS 4/24 RS

Robot spindle manufactured according to the most stringent quality criteria and the latest technological standards with clockwise rotation and exhaust directed to the rear. Suitable for stationary applications in robot cells and machine tools and for installation in transfer lines.

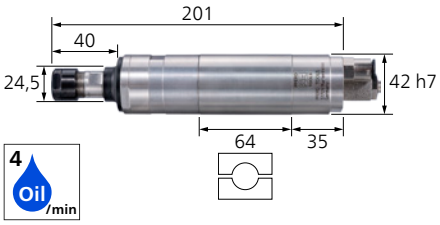
Contents:
Quick coupling (BK 10 mm - 1/4"), speed throttle, 6 mm collet (collet group 16), 2 keys (1 x EM SW 17 mm, 1 x DM SW 20/22 mm).

Special features:
- High torque due to planetary gear.
- Very high concentricity in continuous use.
- With stainless steel collet mounting and double spindle bearing for a longer tool life.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Inner dia./ outer dia. of air supply hose [mm]	Exhaust hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
2,400	380	0.71	0.51	8 / 10	12	1.140	80115018	PGAS 4/24 RS

Robot spindles for stationary applications

Robot spindles for air-powered straight grinders



PGAS 4/12 RS

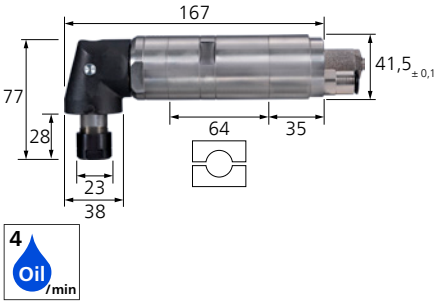
Robot spindle manufactured according to the most stringent quality criteria and the latest technological standards with clockwise rotation and exhaust directed to the rear. Suitable for stationary applications in robot cells and machine tools and for installation in transfer lines.

Contents:
Quick coupling (BK 10 mm - 1/4"), speed throttle, 6 mm collet (collet group 16), 2 keys (1x EM SW 17 mm, 1x DM SW 20/22 mm).

Special features:
- High torque due to planetary gear.
- Very high concentricity in continuous use.
- With stainless steel collet mounting and double spindle bearing for a longer tool life.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Inner dia./ outer dia. of air supply hose [mm]	Exhaust hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
1,200	380	0.71	0.51	8 / 10	12	1.415	80115019	PGAS 4/12 RS

Angle grinder with collet



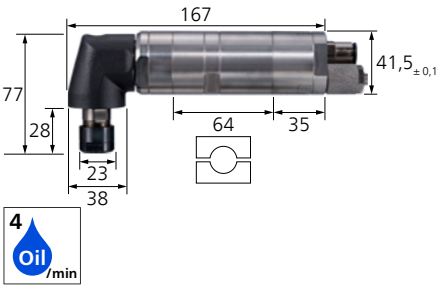
PWAS 4/180 RS

Robot spindle manufactured according to the most stringent quality criteria and the latest technological standards with clockwise rotation and exhaust directed to the rear. Suitable for stationary applications in robot cells and machine tools and for installation in transfer lines.

Contents:
Quick coupling (BK 10 mm - 1/4"), speed throttle, 6 mm collet (collet group 16), 2 keys (1x EM SW 17 mm, 1x DM SW 20/22 mm).

Special features:
- Very high concentricity in continuous use.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Inner dia./ outer dia. of air supply hose [mm]	Exhaust hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
18,000	380	0.71	0.51	8 / 10	12	1.410	80115021	PWAS 4/180 RS



PWAS 4/52 RS

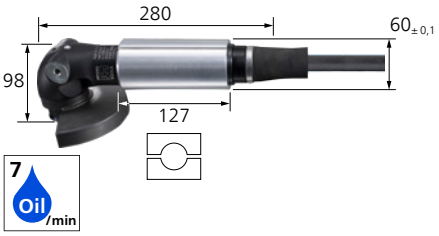
Robot spindle manufactured according to the most stringent quality criteria and the latest technological standards with clockwise rotation and exhaust directed to the rear. Suitable for stationary applications in robot cells and machine tools and for installation in transfer lines.

Contents:
Quick coupling (BK 10 mm - 1/4"), speed throttle, 6 mm collet (collet group 16), 2 keys (1x EM SW 17 mm, 1x DM SW 20/22 mm).

Special features:
- Very high concentricity in continuous use.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Inner dia./ outer dia. of air supply hose [mm]	Exhaust hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
5,200	380	0.71	0.51	8 / 10	12	1.410	80115022	PWAS 4/52 RS

Robot spindles for stationary applications
Angle grinder with threaded spindle



PWA 11/120 RS

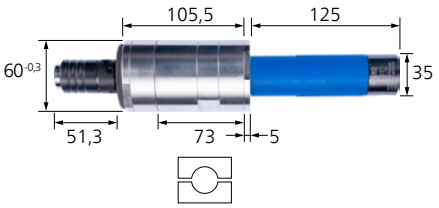
Robot spindle manufactured according to the most stringent quality criteria and the latest technological standards with clockwise rotation and exhaust directed to the rear. Suitable for stationary applications in robot cells and machine tools and for installation in transfer lines.

Contents:
1 m exhaust hose and 2.5 m air supply hose with 1/2" male threaded connection, 1 clamping nut, 2 flange screws, 2 spacer sleeves, 2 keys (1x STL SW 35 x 5 mm, 1x SKS SW 4 mm), guard dia. 125 mm.

Special features:
- With maximum **tool diameter up to 125 mm**.
- Autobalancer on the drive spindle and constant power delivery due to the centrifugal governor.
- Spindle lock pin for tool change with one key.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Spindle thread	Air supply hose internal dia. [mm]	Tool mounting [mm]	Net weight [kg]	Item no.	Designation
12,000	1,100	0.5	1	M14	13	22.23	2.430	80115023	PWA 11/120 RS

Robot spindles for flexible shafts – straight handpiece



HAQ 10 G28 RS

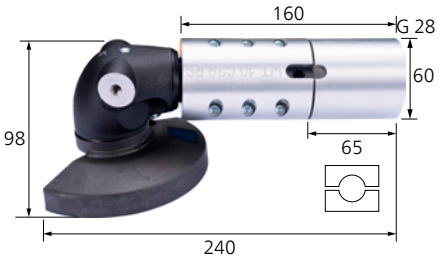
Straight handpiece for stationary applications. Can be connected to all flexible shafts with G28 sliding coupling. The maximum rotational speed is 18,000 RPM.

Contents:
2 keys (DM SW 15/20mm).

Special features:
- Maximum flexibility thanks to the quick-change tool mounting.
- Enables flexible shaft drives to be used as straight grinders in robot cells.

Max. rotational speed [RPM]	Handpiece-side coupling G / dia. [mm]	Transmission ratio	Net weight [kg]	Item no.	Designation
18,000	28 / 28 mm	1:1	3.425	87101807	HAQ 10 G28 RS

Robot spindles for flexible shafts – angle handpiece



WT 10 G28 RS

Angle drive for stationary applications. Can be connected to all flexible shafts with G28 thread (instead of the handpiece). Connection to flexible shaft can be pivoted 360°. With M14 spindle thread and dia. 22.23 mm tool mounting.

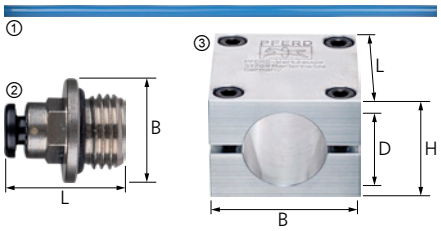
Contents:
1 clamping nut (item no. 98980036), 2 flange screws (1x item no. 98980037, 1x item no. 98980038), 2 spacer sleeves (1x item no. 98980039, 1x item no. 98980040), 2 keys (1x STL SW 35 x 5 mm, 1x SKS SW 4 mm), guard dia. 125 mm, anti-vibration handle.

Special features:
- Enables flexible shaft drives to be used as angle grinders in robot cells.
- The connection to the shaft can be pivoted 360°.
- With maximum **tool diameter up to 125 mm**.

Max. rotational speed [RPM]	Handpiece-side coupling G / dia. [mm]	Transmission ratio	Net weight [kg]	Item no.	Designation
18,000	28 / 28 mm	1.53 : 1	1.788	87100989	WT 10 G28 RS

New item

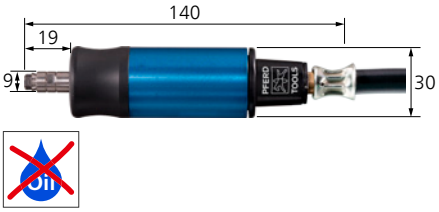
Robot spindles for stationary applications
Accessory for robot spindle



Accessory for robot spindle

PFERD TOOLS offers different accessories for robot spindles.

Image	L [mm]	B [mm]	H [mm]	D [mm]	Net weight [kg]	Item no.	Designation
Quick coupling							
②	20	17	-	-	0.010	80900431	BK 4 mm - 1-4"
						80900427	BK 6 mm - 1-4"
	24	17	-	-	0.011	80900428	BK 8 mm - 1/4"
	29	17	-	-	0.016	80900432	BK 10 mm - 1/4"
	30	20	-	-	0.022	80900429	BK 12 mm - 1/4"
	31	25	-	-	0.098	80900433	BK 14 mm - 1/2"
Air supply hose – sold by the metre							
①	-	-	-	-	-	98980378	PLS 4 RS
						98980379	PLS 6 RS
						98980380	PLS 8 RS
						98980381	PLS 10 RS
						98980382	PLS 12 RS
						98980383	PLS 14 RS
Bottom flange							
③	60	54	40	30	0.239	98980641	FF 30
		66	56	36	0.438	98980642	FF 36
				41.5	0.383	98980643	FF 41,5
				42	0.378	98980644	FF 42
	75	90	65	46	1.036	98980645	FF 46
	100	150	70	60	1.686	98980646	FF 60



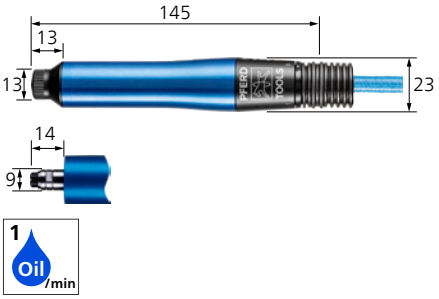
PGTS 1/1100 DV

Sophisticated air-powered straight grinder with turbine motor, exhaust directed to the front and ring throttle version. Offers maximum cutting speed for TC burrs and mounted points.

Contents:
1.5 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 3 mm collet (collet group 15), 2 keys (DM SW 6/8 mm).

Special features:
- No oil residues on the workpiece.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
110,000	75	0.32	0.15	6	0.188	80107320	PGTS 1/1100 DV



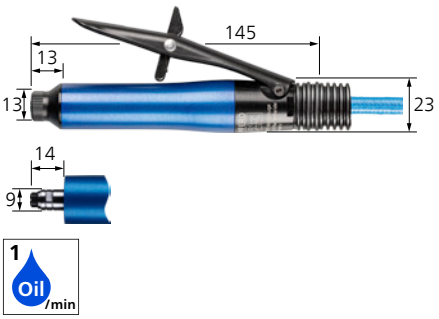
PGAS 2/800 E-DV

Sophisticated air-powered straight grinder with elastically mounted spindle and exhaust directed to the rear. Minimizes vibrations when working.

Contents:
0.75 m exhaust hose and 1.5 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 3 mm collet (collet group 15), 2 keys (DM SW 6/8 mm).

Special features:
- Offers high cutting speed for TC burrs and mounted points.
- The removable spindle sleeve enables narrower and harder-to-reach areas to be accessed more easily.
- Easy guidance thanks to slim, lightweight design.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
80,000	110	0.27	0.26	4.8	0.136	80105021	PGAS 2/800 E-DV



PGAS 2/800 E-HV

Sophisticated air-powered straight grinder with elastically mounted spindle, exhaust directed to the rear, ring throttle version and dead man's switch using safety lever valve. Minimizes vibrations when working.

Contents:
0.75 m exhaust hose and 1.5 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 3 mm collet (collet group 15), 2 keys (DM SW 6/8 mm).

Special features:
- Offers high cutting speed for TC burrs and mounted points.
- The removable spindle sleeve enables narrower and harder-to-reach areas to be accessed more easily.
- Easy guidance thanks to slim, lightweight design.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
80,000	110	0.27	0.26	4.8	0.170	80105022	PGAS 2/800 E-HV

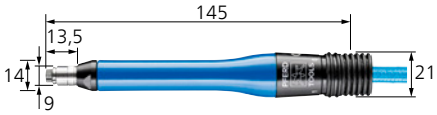
PGAS 1/750 DV

Sophisticated air-powered straight grinder with exhaust directed to the rear and ring throttle version. Offers high cutting speed for TC burrs and mounted points.

Contents:
0.6 m exhaust hose and 2 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 3 mm collet (collet group 1), 2 keys (EM SW 7 mm).

Special features:
- Easy guidance thanks to slim, lightweight design.
- The removable spindle sleeve enables narrower and harder-to-reach areas to be accessed more easily.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
75,000	110	0.35	0.2	5	0.142	80700026	PGAS 1/750 DV



PGAS 1/700 DV

Sophisticated air-powered straight grinder with exhaust directed to the rear and ring throttle version. Offers high cutting speed for TC burrs and mounted points.

Contents:
0.75 m exhaust hose and 2 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 3 mm collet (collet group 15), 2 keys (DM SW 6/8 mm).

Special features:
- Light and easy to handle.
- Easy guidance thanks to slim, lightweight design.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
70,000	100	0.25	0.12	4.8	0.090	80105090	PGAS 1/700 DV

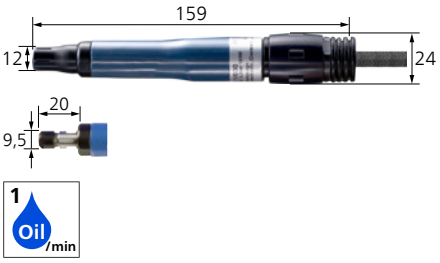
PGAS 1/700 HV

Sophisticated air-powered straight grinder with exhaust directed to the rear, ring throttle version and dead man's switch using safety lever valve. Offers high cutting speed for TC burrs and mounted points.

Contents:
0.75 m exhaust hose and 2 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 3 mm collet (collet group 15), 2 keys (DM SW 6/8 mm).

Special features:
- Light and easy to handle.
- Easy guidance thanks to slim, lightweight design.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
70,000	100	0.25	0.12	4.8	0.128	80105095	PGAS 1/700 HV



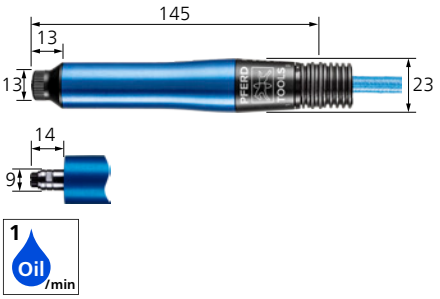
PGAS 1/600 DV

Sophisticated air-powered straight grinder with exhaust directed to the rear and ring throttle version. Offers high cutting speed for TC burrs and mounted points.

Contents:
0.6 m exhaust hose and 2 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 3 mm collet (collet group 1), 2 keys (EM SW 7 mm).

Special features:
- Easy guidance thanks to slim, lightweight design.
- The removable spindle sleeve enables narrower and harder-to-reach areas to be accessed more easily.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
60,000	110	0.28	0.2	5	0.142	80700025	PGAS 1/600 DV



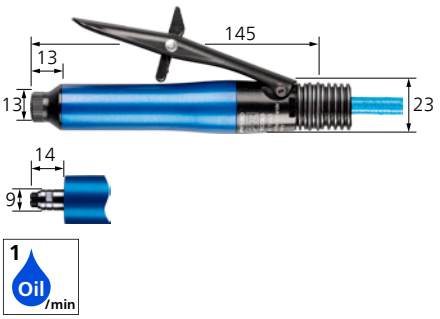
PGAS 2/600 E-DV

Sophisticated air-powered straight grinder with elastically mounted spindle, exhaust directed to the rear and ring throttle version. High cutting speed for TC burrs and mounted points.

Contents:
0.75 m exhaust hose and 1.5 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 3 mm collet (collet group 15), 2 keys (DM SW 6/8 mm).

Special features:
- Light and easy to handle and enables low vibrations when working.
- The removable spindle sleeve enables narrower and harder-to-reach areas to be accessed more easily.
- Easy guidance thanks to slim, lightweight design.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
60,000	100	0.26	0.24	4.8	0.137	80105096	PGAS 2/600 E-DV



PGAS 2/600 E-HV

Sophisticated air-powered straight grinder with elastically mounted spindle, exhaust directed to the rear, ring throttle version and dead man's switch using safety lever valve. High cutting speed for TC burrs and mounted points.

Contents:
0.75 m exhaust hose and 1.5 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 3 mm collet (collet group 15), 2 keys (DM SW 6/8 mm).

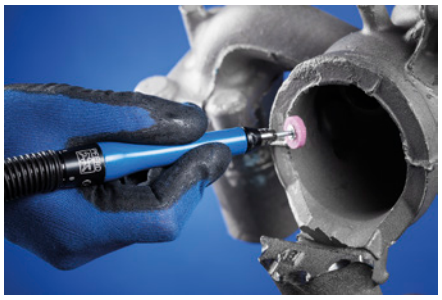
Special features:
- Light and easy to handle and enables low vibrations when working.
- The removable spindle sleeve enables narrower and harder-to-reach areas to be accessed more easily.
- Easy guidance thanks to slim, lightweight design.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
60,000	100	0.26	0.24	4.8	0.171	80105097	PGAS 2/600 E-HV

1 Oil /min

PGAS 1/550 DV

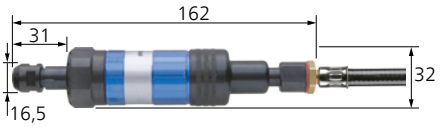
Sophisticated air-powered straight grinder with exhaust directed to the rear and ring throttle version. Offers high cutting speed for TC burrs and mounted points.



Contents:
0.75 m exhaust hose and 2 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 3 mm collet (collet group 15), 2 keys (DM SW 6/8 mm).

Special features:
- Easy guidance thanks to slim, lightweight design.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
55,000	100	0.25	0.12	4.8	0.091	80105100	PGAS 1/550 DV



3 Oil /min

PG 3/500 S

Sophisticated air-powered straight grinder with exhaust directed to the front. With push-pull throttle version suitable for continuous use.

Contents:
3 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 6 mm collet (collet group 5), 2 keys (1x EM SW 7/16", 1x EM SW 9/16").

Special features:
- Light and easy to handle.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
50,000	200	0.45	0.24	8.5	0.370	80107050	PG 3/500 S

3 Oil /min

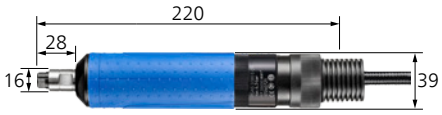
PGAS 3/500 HV

Sophisticated air-powered straight grinder with exhaust directed to the rear and dead man's switch using safety lever valve.

Contents:
3 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 1 m exhaust hose, 6 mm collet (collet group 5), 2 keys (1x EM SW 7/16", 1x EM SW 9/16").

Special features:
- Light and easy to handle.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
50,000	200	0.45	0.24	8.5	0.460	80107055	PGAS 3/500 HV



PGAS 3/380 E-DV

Sophisticated air-powered straight grinder with exhaust directed to the rear and ring throttle version.

Contents:
1 m exhaust hose and 2.5 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 6 mm collet (collet group 6), 2 keys (1x EM SW 11 mm, 1x EM SW 14 mm).

Special features:
- Elastically mounted spindle guarantees a longer tool life, especially when using TC burrs.
- Low vibrations when working.
- The compact design enables good accessibility.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
38,000	290	0.7	0.6	8	0.472	80105153	PGAS 3/380 E-DV

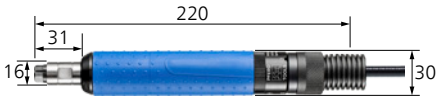
PGAS 3/380 E-HV

Sophisticated air-powered straight grinder with exhaust directed to the rear and dead man's switch using safety lever valve.

Contents:
1 m exhaust hose and 2.5 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 6 mm collet (collet group 6), 2 keys (1x EM SW 11 mm, 1x EM SW 14 mm).

Special features:
- Elastically mounted spindle guarantees a longer tool life, especially when using TC burrs.
- Low vibrations when working.
- The compact design enables good accessibility.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
38,000	290	0.7	0.6	8	0.512	80105151	PGAS 3/380 E-HV



PGAS 3/350 DV

Sophisticated air-powered straight grinder with exhaust directed to the rear and ring throttle version.

Contents:
1 m exhaust hose and 2.5 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 6 mm collet (collet group 6), 2 keys (1x EM SW 11 mm, 1x EM SW 14 mm).

Special features:
- Very easy to handle and guide thanks to the slim, lightweight design.
- High power output with compact design.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
35,000	290	0.6	0.5	6	0.401	80105152	PGAS 3/350 DV

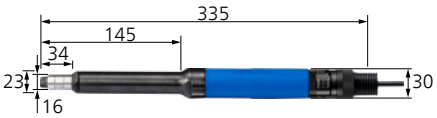
PGAS 3/350 HV

Sophisticated air-powered straight grinder with exhaust directed to the rear and dead man's switch using safety lever valve.

Contents:
1 m exhaust hose and 2.5 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 6 mm collet (collet group 6), 2 keys (1x EM SW 11 mm, 1x EM SW 14 mm).

Special features:
- Very easy to handle and guide thanks to the slim, lightweight design.
- High power output with compact design.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
35,000	290	0.6	0.5	6	0.441	80105053	PGAS 3/350 HV



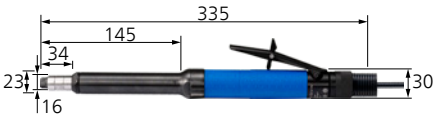
PGAS 3/350 V-DV

Sophisticated air-powered straight grinder with exhaust directed to the rear and ring throttle version.

Contents:
1 m exhaust hose and 2.5 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 6 mm collet (collet group 6), 2 keys (1x EM SW 11 mm, 1x EM SW 14 mm).

Special features:
- Very easy to handle and guide.
- Extended design, ideal for working in hard-to-reach areas.
- High power output with compact design.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
35,000	290	0.6	0.5	6	0.740	80105160	PGAS 3/350 V-DV



PGAS 3/350 V-HV

Sophisticated air-powered straight grinder with exhaust directed to the rear and dead man's switch using safety lever valve.

Contents:
1 m exhaust hose and 2.5 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 6 mm collet (collet group 6), 2 keys (1x EM SW 11 mm, 1x EM SW 14 mm).

Special features:
- Very easy to handle and guide.
- Extended design, ideal for working in hard-to-reach areas.
- High power output with compact design.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
35,000	290	0.6	0.5	6	0.780	80105155	PGAS 3/350 V-HV

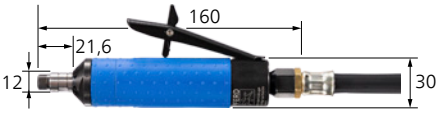
PGS 3/300 DV

Sophisticated air-powered straight grinder with exhaust directed to the front and ring throttle version.

Contents:
2.5 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 6 mm collet (collet group 10), 2 keys (1x EM SW 9 mm, 1x EM SW 10 mm).

Special features:
- Easy to handle and guide.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
30,000	240	0.6	0.5	8	0.348	80106028	PGS 3/300 DV



2 Oil /min

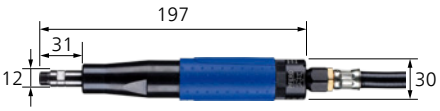
PGS 3/300 HV

Sophisticated air-powered straight grinder with exhaust directed to the front and dead man's switch using safety lever valve.

Contents:
2.5 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 6 mm collet (collet group 10), 2 keys (1x EM SW 9 mm, 1x EM SW 10 mm).

Special features:
- Easy to handle and guide.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
30,000	240	0.6	0.5	8	0.384	80106029	PGS 3/300 HV



2 Oil /min

PGS 3/300 Z-DV

Sophisticated air-powered straight grinder with exhaust directed to the front and ring throttle version.

Contents:
2.5 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 6 mm collet (collet group 10), 2 keys (1x EM SW 9 mm, 1x EM SW 10 mm).

Special features:
- Precise guidance thanks to extended slim housing.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
30,000	290	0.6	0.5	8	0.433	80106023	PGS 3/300 Z-DV

2 Oil /min

PGS 3/300 Z-HV

Sophisticated air-powered straight grinder with exhaust directed to the front and dead man's switch using safety lever valve.

Contents:
2.5 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 6 mm collet (collet group 10), 2 keys (1x EM SW 9 mm, 1x EM SW 10 mm).

Special features:
- Precise guidance thanks to extended slim housing.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
30,000	290	0.6	0.5	8	0.469	80106024	PGS 3/300 Z-HV

4 Oil /min

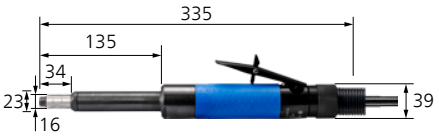
PGAS 4/300 HV

Sophisticated air-powered straight grinder with exhaust directed to the rear and dead man's switch using safety lever valve.

Contents:
1 m exhaust hose and 2.5 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 6 mm collet (collet group 20), 2 keys (1x EM SW 12 mm, 1x EM SW 17 mm).

Special features:
- Very powerful with a compact design.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
30,000	440	0.88	0.84	8	0.830	80106021	PGAS 4/300 HV



4 Oil /min

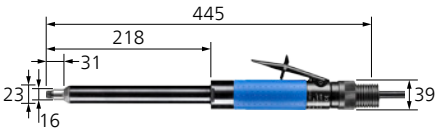
PGAS 4/300 M-HV

Sophisticated air-powered straight grinder with exhaust directed to the rear and dead man's switch using safety lever valve.

Contents:
1 m exhaust hose and 2.5 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 6 mm collet (collet group 6), 2 keys (1x EM SW 11 mm, 1x EM SW 14 mm).

Special features:
- Medium-length design for use when access is restricted.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
30,000	440	0.88	0.84	8	1.198	80106027	PGAS 4/300 M-HV



4 Oil /min

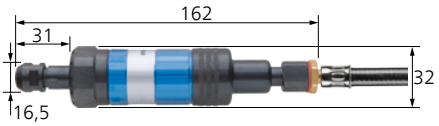
PGAS 4/300 V-HV

Sophisticated air-powered straight grinder with exhaust directed to the rear and dead man's switch using safety lever valve.

Contents:
1 m exhaust hose and 2.5 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 6 mm collet (collet group 6), 2 keys (1x EM SW 11 mm, 1x EM SW 14 mm).

Special features:
- Extended design, ideal for working in hard-to-reach areas.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
30,000	440	0.88	0.84	8	1.421	80106022	PGAS 4/300 V-HV



3 Oil /min

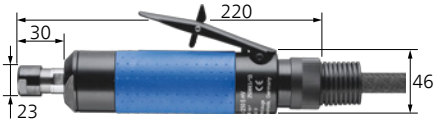
PG 3/250 S

Sophisticated air-powered straight grinder with exhaust directed to the front. Suitable for continuous use thanks to push-pull throttle version. Provides constant power delivery due to the centrifugal governor.

Contents:
3 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 6 mm collet (collet group 5), 2 keys (1x EM SW 7/16", 1x EM SW 9/16").

Special features:
- Small design.
- Good accessibility thanks to compact design.
- Light and easy to handle.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
25,000	225	0.21	0.49	8.5	0.370	80107060	PG 3/250 S



4 Oil /min

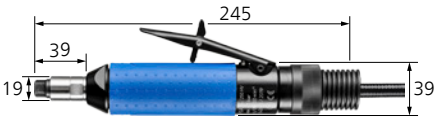
PGAS 4/250 E-HV

Sophisticated air-powered straight grinder with exhaust directed to the rear and dead man's switch using safety lever valve. Can also be operated without oil; however, this will lead to a shorter service life and reduced rotational speed and power output.

Contents:
1 m exhaust hose and 2.5 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 6 mm collet (collet group 16), 2 keys (1x EM SW 17 mm, 1x DM SW 20/22 mm).

Special features:
- The elastically mounted spindle enables vibration-low working.
- Particularly suitable for use with TC burrs.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
25,000	440	0.98	0.87	8	0.870	80107181	PGAS 4/250 E-HV



4 Oil /min

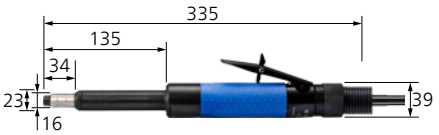
PGAS 4/250 HV

Sophisticated air-powered straight grinder with exhaust directed to the rear and dead man's switch using safety lever valve. Can also be operated without oil; however, this will lead to a shorter service life and reduced rotational speed and power output.

Contents:
1 m exhaust hose and 2.5 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 6 mm collet (collet group 20), 2 keys (1x EM SW 12 mm, 1x EM SW 17 mm).

Special features:
- Very powerful with a compact design.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
25,000	440	0.98	0.87	8	0.830	80106026	PGAS 4/250 HV



4 Oil /min

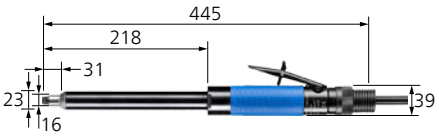
PGAS 4/250 M-HV

Sophisticated air-powered straight grinder with exhaust directed to the rear and dead man's switch using safety lever valve. Can also be operated without oil; however, this will lead to a shorter service life and reduced rotational speed and power output.

Contents:
1 m exhaust hose and 2.5 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 6 mm collet (collet group 6), 2 keys (1x EM SW 11 mm, 1x EM SW 14 mm).

Special features:
- Medium-length design for use when access is restricted.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
25,000	440	0.98	0.87	8	1.198	80106007	PGAS 4/250 M-HV



4 Oil /min

PGAS 4/250 V-HV

Sophisticated air-powered straight grinder with exhaust directed to the rear and dead man's switch using safety lever valve. Can also be operated without oil; however, this will lead to a shorter service life and reduced rotational speed and power output.

Contents:
1 m exhaust hose and 2.5 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 6 mm collet (collet group 6), 2 keys (1x EM SW 11 mm, 1x EM SW 14 mm).

Special features:
- Extended design, ideal for working in hard-to-reach areas.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
25,000	440	0.98	0.87	8	1.421	80106006	PGAS 4/250 V-HV

6 Oil /min

PGS 6/250 HV

Sophisticated air-powered straight grinder with exhaust directed to the front and dead man's switch using safety lever valve.

Contents:
3 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 6 mm collet (collet group 10), 2 keys (1x EM SW 9/16", 1x EM SW 3/4").

Special features:
- Easy to handle and guide.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
25,000	650	0.95	0.71	8	0.750	80107082	PGS 6/250 HV

6 Oil /min

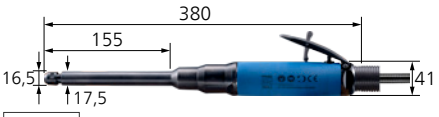
PGAS 6/250 HV

Sophisticated air-powered straight grinder with exhaust directed to the rear and dead man's switch using safety lever valve. Operate the drive with oil to achieve a high rotational speed and long service life.

Contents:
1 m exhaust hose and 3 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 6 mm collet (collet group 20), 2 keys (1x EM SW 9/16", 1x EM SW 3/4").

Special features:
- Very powerful with a compact design.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
25,000	650	0.95	0.71	8	0.750	80107086	PGAS 6/250 HV



6 Oil /min

PGAS 6/250 V-HV

Sophisticated air-powered straight grinder with exhaust directed to the rear and dead man's switch using safety lever valve.

Contents:
1 m exhaust hose and 3 m air supply hose with 1/4" male threaded connection, 6 mm collet (collet group 16), 2 keys (1x EM SW 7/16", 1x EM SW 9/16").

Special features:
- Very long design, particularly well suited to working in hard-to-reach areas.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
25,000	650	0.95	0.71	8	1.091	80706081	PGAS 6/250 V-HV

6 Oil /min

PGAS 6/250 VB-HV

Sophisticated air-powered straight grinder with exhaust directed to the rear and dead man's switch using safety lever valve.

Contents:
1 m exhaust hose and 3 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 6 mm collet (collet group 7), 2 keys (1x EM SW 9/16", 1x EM SW 3/4").

Special features:
- Constant power delivery due to the centrifugal governor.
- Compact design.
- Thanks to its design with wide extension, the drive is ideal for working in hard-to-reach areas.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
25,000	650	0.95	0.71	8	1.316	80700014	PGAS 6/250 VB-HV

4 Oil /min

PGS 4/220 Z-HV

Sophisticated air-powered straight grinder with exhaust directed to the front and dead man's switch using safety lever valve.

Contents:
2.5 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 6 mm collet (collet group 20), 2 keys (1x EM SW 12 mm, 1x EM SW 17 mm).

Special features:
- Can be guided precisely thanks to comfortable two-handed operation.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
22,000	400	0.98	0.87	8	1.170	80700502	PGS 4/220 Z-HV

4 Oil /min

PGAS 4/220 Z-HV

Sophisticated air-powered straight grinder with exhaust directed to the rear and dead man's switch using safety lever valve. Can also be operated without oil; however, this will lead to a shorter service life and reduced rotational speed and power output.

Contents:
1 m exhaust hose and 2.5 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 6 mm collet (collet group 20), 2 keys (1x EM SW 12 mm, 1x EM SW 17 mm).

Special features:
- Very powerful with a compact design.
- Can be guided precisely thanks to comfortable two-handed operation.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
22,000	400	0.98	0.87	8	1.221	80106005	PGAS 4/220 Z-HV

5 Oil /min

PG 8/220 HV

Sophisticated air-powered straight grinder with exhaust directed to the front and dead man's switch using safety lever valve.

Contents:
3 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 6 mm collet (collet group 7), 2 keys (1x EM SW 9/16", 1x EM SW 3/4").

Special features:
- Compact design.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
22,000	600	0.95	0.85	8.5	0.950	80107081	PG 8/220 HV

5 Oil /min

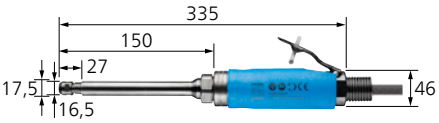
PGAS 8/220 HV

Sophisticated air-powered straight grinder with exhaust directed to the rear and dead man's switch using safety lever valve.

Contents:
3 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 1 m exhaust hose, 6 mm collet (collet group 7), 2 keys (1x EM SW 9/16", 1x EM SW 3/4").

Special features:
- Compact design.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
22,000	600	0.95	0.85	8.5	1.000	80107085	PGAS 8/220 HV



5 Oil /min

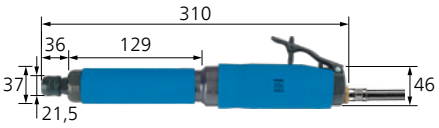
PGAS 8/220 VS-HV

Sophisticated air-powered straight grinder with exhaust directed to the rear and dead man's switch using safety lever valve.

Contents:
1 m exhaust hose and 3 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 6 mm collet (collet group 5), 2 keys (1x EM SW 7/16", 1x EM SW 9/16").

Special features:
- With exceptionally slim drive extension.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
22,000	600	0.95	0.85	8.5	1.170	80706060	PGAS 8/220 VS-HV



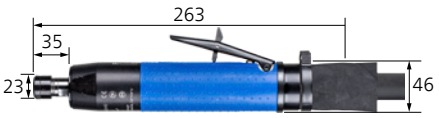
5 Oil /min

PG 8/220 V-HV

Sophisticated air-powered straight grinder with exhaust directed to the front and dead man's switch using safety lever valve.

Contents:
3 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 6 mm collet (collet group 7), 2 keys (1x EM SW 9/16", 1x EM SW 3/4").

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
22,000	600	0.95	0.85	8.5	1.400	80700012	PG 8/220 V-HV



7 Oil /min

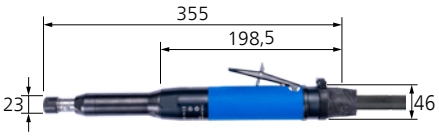
PGAS 10/200 HV

Sophisticated air-powered straight grinder with exhaust directed to the rear and dead man's switch using safety lever valve.

Contents:
1 m exhaust hose and 2.5 m air supply hose with 1/2" male threaded connection, 6 mm collet (collet group 16), 2 keys (1x EM SW 17 mm, 1x DM SW 20/22 mm).

Special features:
- Powerful drive for heavy-duty use.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
20,000	1,000	1.38	1.1	13	1.234	80101046	PGAS 10/200 HV



7 Oil /min

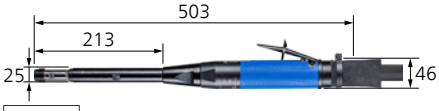
PGAS 10/200 ME-HV

Sophisticated air-powered straight grinder with exhaust directed to the rear and dead man's switch using safety lever valve.

Contents:
1 m exhaust hose and 2.5 m air supply hose with 1/2" male threaded connection, 6 mm collet (collet group 16), 2 keys (1x EM SW 17 mm, 1x DM SW 20/22 mm).

Special features:
- Powerful drive for heavy-duty use.
- Medium-length design for use when access is restricted.
- The elastically mounted spindle enables vibration-low working.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
20,000	1,000	1.38	1.1	13	1.307	80101070	PGAS 10/200 ME-HV



7 Oil /min

PGAS 10/200 V-HV

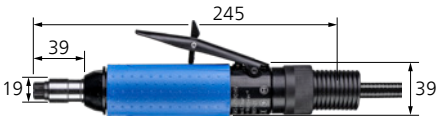
Sophisticated air-powered straight grinder with exhaust directed to the rear and dead man's switch using safety lever valve.

Contents:
1 m exhaust hose and 2.5 m air supply hose with 1/2" male threaded connection, 6 mm collet (collet group 16), 2 keys (1x EM SW 17 mm, 1x DM SW 20/22 mm).

Special features:
- Very long design, particularly well suited to working in hard-to-reach areas.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
20,000	1,000	1.38	1.1	13	2.047	80101045	PGAS 10/200 V-HV

New item



4 Oil /min

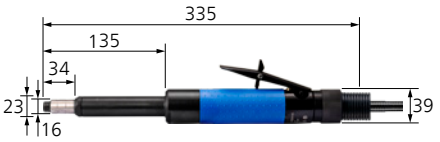
PGAS 4/190 HV

Sophisticated air-powered straight grinder with exhaust directed to the rear and dead man's switch using safety lever valve. Can also be operated without oil; however, this will lead to a shorter service life and reduced rotational speed and power output.

Contents:
1 m exhaust hose and 2.5 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 6 mm collet (collet group 20), 2 keys (1x EM SW 12 mm, 1x EM SW 17 mm).

Special features:
- Very powerful with a compact design.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
19,000	370	0.78	0.72	8	0.830	80105180	PGAS 4/190 HV



4 Oil /min

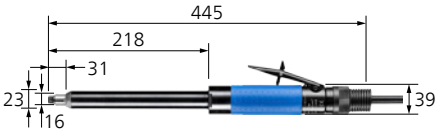
PGAS 4/190 M-HV

Sophisticated air-powered straight grinder with exhaust directed to the rear and dead man's switch using safety lever valve. Can also be operated without oil; however, this will lead to a shorter service life and reduced rotational speed and power output.

Contents:
1 m exhaust hose and 2.5 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 6 mm collet (collet group 6), 2 keys (1x EM SW 11 mm, 1x EM SW 14 mm).

Special features:
- Medium-length design for use when access is restricted.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
19,000	370	0.78	0.72	8	1.198	80105171	PGAS 4/190 M-HV



4 Oil /min

PGAS 4/190 V-HV

Sophisticated air-powered straight grinder with exhaust directed to the rear and dead man's switch using safety lever valve. Can also be operated without oil; however, this will lead to a shorter service life and reduced rotational speed and power output.

Contents:
1 m exhaust hose and 2.5 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 6 mm collet (collet group 6), 2 keys (1x EM SW 11 mm, 1x EM SW 14 mm).

Special features:
- Extended design, ideal for working in hard-to-reach areas.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
19,000	370	0.78	0.72	8	1.421	80105170	PGAS 4/190 V-HV

6 Oil /min

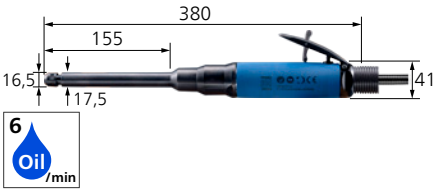
PGS 6/160 HV

Sophisticated air-powered straight grinder with exhaust directed to the front and dead man's switch using safety lever valve.

Contents:
3 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 6 mm collet (collet group 10), 2 keys (1x EM SW 9/16", 1x EM SW 3/4").

Special features:
- Easy to handle and guide.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
16,000	650	0.39	0.71	8	0.750	80107042	PGS 6/160 HV



PGAS 6/160 V-HV

Sophisticated air-powered straight grinder with exhaust directed to the rear and dead man's switch using safety lever valve.

Contents:
1 m exhaust hose and 3 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 6 mm collet (collet group 6), 2 keys (1x EM SW 9/16", 1x EM SW 3/4").

Special features:
- Extended design, ideal for working in hard-to-reach areas.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
16,000	650	0.39	0.71	8	1.091	80706071	PGAS 6/160 V-HV

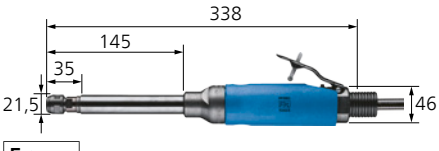
PG 8/160 HV

Sophisticated, compact air-powered straight grinder with exhaust directed to the front and dead man's switch using safety lever valve.

Contents:
3 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 1 m exhaust hose, 6 mm collet (collet group 7), 2 keys (1x EM SW 9/16", 1x EM SW 3/4").

Special features:
- Constant power delivery due to the centrifugal governor.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
16,000	600	0.34	0.85	8.5	0.950	80107041	PG 8/160 HV



PGAS 8/160 VM-HV

Sophisticated air-powered straight grinder with exhaust directed to the rear, dead man's switch using safety lever valve and slim drive extension.

Contents:
3 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 1 m exhaust hose, 6 mm collet (collet group 7), 2 keys (1x EM SW 9/16", 1x EM SW 3/4").

Special features:
- Constant power delivery due to the centrifugal governor.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
16,000	600	0.34	0.85	8.5	1.200	80706075	PGAS 8/160 VM-HV

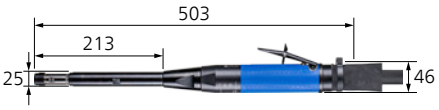
PGAS 10/160 HV

Sophisticated air-powered straight grinder with exhaust directed to the rear and dead man's switch using safety lever valve.

Contents:
1 m exhaust hose and 2.5 m air supply hose with 1/2" male threaded connection, 6 mm collet (collet group 16), 2 keys (1x EM SW 17 mm, 1x DM SW 20/22 mm).

Special features:
- Constant power delivery due to the centrifugal governor.
- Powerful drive for heavy-duty use.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
16,000	1,000	0.7	0.9	13	1.234	80101051	PGAS 10/160 HV



7 Oil /min

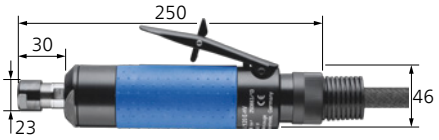
PGAS 10/160 V-HV

Sophisticated air-powered straight grinder with exhaust directed to the rear and dead man's switch using safety lever valve.

Contents:
1 m exhaust hose and 2.5 m air supply hose with 1/2" male threaded connection, 6 mm collet (collet group 16), 2 keys (1x EM SW 17 mm, 1x DM SW 20/22 mm).

Special features:
- Very long design, particularly well suited to working in hard-to-reach areas.
- Constant power delivery due to the centrifugal governor.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
16,000	1,000	0.7	0.9	13	2.047	80101050	PGAS 10/160 V-HV



4 Oil /min

PGAS 4/120 E-HV

Sophisticated air-powered straight grinder with exhaust directed to the rear and dead man's switch using safety lever valve. Can also be operated without oil; however, this will lead to a shorter service life and reduced rotational speed and power output.

Contents:
1 m exhaust hose and 2.5 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 6 mm collet (collet group 16), 2 keys (1x EM SW 17 mm, 1x DM SW 20/22 mm).

Special features:
- The elastically mounted spindle enables vibration-low working.
- Constant power delivery due to the centrifugal governor.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
12,000	440	0.7	0.98	8	1.035	80107191	PGAS 4/120 E-HV

6 Oil /min

PGS 6/120 HV

Sophisticated air-powered straight grinder with exhaust directed to the front and dead man's switch using safety lever valve.

Contents:
2 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 6 mm collet (collet group 10), 2 keys (1x EM SW 9/16", 1x EM SW 3/4").

Special features:
- Easy to handle and guide.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
12,000	650	0.22	0.71	8	0.750	80107012	PGS 6/120 HV

6 Oil /min

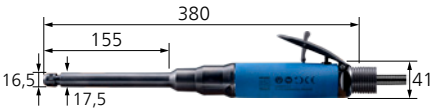
PGAS 6/120 HV

Sophisticated air-powered straight grinder with exhaust directed to the rear and dead man's switch using safety lever valve.

Contents:
1 m exhaust hose and 3 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 6 mm collet (collet group 7), 2 keys (1x EM SW 9/16", 1x EM SW 3/4").

Special features:
- Constant power delivery due to the centrifugal governor.
- Compact design.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
12,000	650	0.22	0.71	8	0.750	80107016	PGAS 6/120 HV



6 Oil /min

PGAS 6/120 V-HV

Sophisticated air-powered straight grinder with exhaust directed to the rear and dead man's switch using safety lever valve.

Contents:
1 m exhaust hose and 3 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 6 mm collet (collet group 6), 2 keys (1x EM SW 9/16", 1x EM SW 3/4").

Special features:
- The tool with wide extension is suitable for working on hard-to-reach areas.
- Its integrated centrifugal governor enables a constant rotational speed to be maintained during use.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
12,000	650	0.22	0.71	8	1.091	80706061	PGAS 6/120 V-HV

6 Oil /min

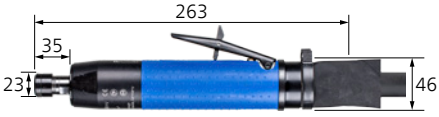
PGAS 6/120 VB-HV

Sophisticated air-powered straight grinder with exhaust directed to the rear and dead man's switch using safety lever valve.

Contents:
1 m exhaust hose and 3 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 6 mm collet (collet group 7), 2 keys (1x EM SW 9/16", 1x EM SW 3/4").

Special features:
- Constant power delivery due to the centrifugal governor.
- Compact design.
- Thanks to its design with wide extension, the drive is ideal for working in hard-to-reach areas.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
12,000	650	0.22	0.71	8	1.316	80107021	PGAS 6/120 VB-HV



7 Oil /min

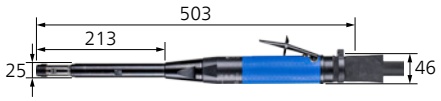
PGAS 10/120 HV

Sophisticated air-powered straight grinder with exhaust directed to the rear and dead man's switch using safety lever valve.

Contents:
1 m exhaust hose and 2.5 m air supply hose with 1/2" male threaded connection, 6 mm collet (collet group 16), 2 keys (1x EM SW 17 mm, 1x DM SW 20/22 mm).

Special features:
- Constant power delivery due to the centrifugal governor.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
12,000	950	0.5	0.9	13	1.234	80101061	PGAS 10/120 HV



7 Oil /min

PGAS 10/120 V-HV

Sophisticated air-powered straight grinder with exhaust directed to the rear and dead man's switch using safety lever valve.

Contents:
1 m exhaust hose and 2.5 m air supply hose with 1/2" male threaded connection, 6 mm collet (collet group 16), 2 keys (1x EM SW 17 mm, 1x DM SW 20/22 mm).

Special features:
- Very long design, particularly well suited to working in hard-to-reach areas.
- Constant power delivery due to the centrifugal governor.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
12,000	950	0.5	0.9	13	2.047	80101060	PGAS 10/120 V-HV

5 Oil /min

PG 8/100 HV

Sophisticated air-powered straight grinder with exhaust directed to the front and dead man's switch using safety lever valve.

Contents:
3 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 6 mm collet (collet group 7), 2 keys (1x EM SW 9/16", 1x EM SW 3/4").

Special features:
- Constant power delivery due to the centrifugal governor.
- Compact design.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
10,000	600	0.17	0.85	8.5	0.950	80107011	PG 8/100 HV

5 Oil /min

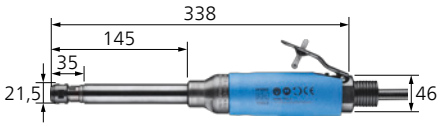
PGAS 8/100 HV

Sophisticated air-powered straight grinder with exhaust directed to the rear and dead man's switch using safety lever valve.

Contents:
3 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 1 m exhaust hose, 6 mm collet (collet group 7), 2 keys (1x EM SW 9/16", 1x EM SW 3/4").

Special features:
- Constant power delivery due to the centrifugal governor.
- Compact design.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
10,000	600	0.17	0.85	8.5	1.000	80107015	PGAS 8/100 HV



5 Oil /min

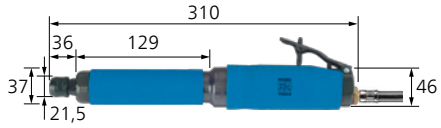
PGAS 8/100 VM-HV

Sophisticated air-powered straight grinder with exhaust directed to the rear, dead man's switch using safety lever valve and slim drive extension. Good size/weight to output ratio.

Contents:
3 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 1 m exhaust hose, 6 mm collet (collet group 7), 2 keys (1x EM SW 9/16", 1x EM SW 3/4").

Special features:
- Extended version for work in hard-to-reach areas.
- Constant power delivery due to the centrifugal governor.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
10,000	600	0.17	0.85	8.5	1.200	80706085	PGAS 8/100 VM-HV



5 Oil /min

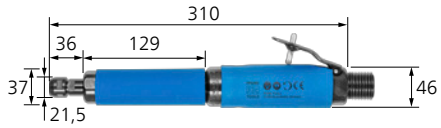
PG 8/100 V-HV

Sophisticated air-powered straight grinder with exhaust directed to the front and dead man's switch using safety lever valve. Good size/weight to output ratio.

Contents:
3 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 6 mm collet (collet group 7), 2 keys (1x EM SW 9/16", 1x EM SW 3/4").

Special features:
- Extended version for work in hard-to-reach areas.
- Constant power delivery due to the centrifugal governor.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
10,000	600	0.17	0.85	8.5	1.400	80107003	PG 8/100 V-HV



5 Oil /min

PGAS 8/100 V-HV

Sophisticated air-powered straight grinder with exhaust directed to the rear and dead man's switch using safety lever valve. Good size/weight to output ratio.

Contents:
3 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 1 m exhaust hose, 6 mm collet (collet group 7), 2 keys (1x EM SW 9/16", 1x EM SW 3/4").

Special features:
- Extended version for work in hard-to-reach areas.
- Constant power delivery due to the centrifugal governor.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
10,000	600	0.17	0.85	8.5	1.400	80107020	PGAS 8/100 V-HV

3 Oil /min

PGAS 3/70 HV

Sophisticated air-powered straight grinder with exhaust directed to the rear and dead man's switch using safety lever valve.

Contents:
1 m exhaust hose and 2.5 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 6 mm collet (collet group 6), 2 keys (1x EM SW 11 mm, 1x EM SW 14 mm).

Special features:
- High torque due to planetary gear.
- Compact, easy-to-handle grinder.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
7,000	320	0.6	0.5	8	0.850	80106050	PGAS 3/70 HV

6 Oil /min

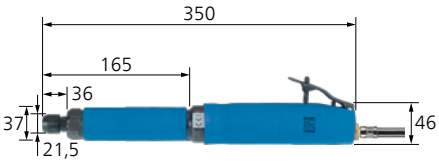
PGAS 6/50 VB-HV

Sophisticated air-powered straight grinder with exhaust directed to the rear and dead man's switch using safety lever valve. The air grinder with fixed rotational speed has to be used with oil.

Contents:
1 m exhaust hose and 3 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 6 mm collet (collet group 6), 2 keys (1x EM SW 9/16", 1x EM SW 3/4").

Special features:
- Thanks to its design with wide extension, the drive is ideal for working in hard-to-reach areas.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
5,000	650	0.95	0.71	8	2.000	80106076	PGAS 6/50 VB-HV



5 Oil /min

PG 8/50 V-HV

Sophisticated air-powered straight grinder with exhaust directed to the front and dead man's switch using safety lever valve. The extended version is for work in hard-to-reach areas.

Contents:
3 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 6 mm collet (collet group 7), 2 keys (1x EM SW 9/16", 1x EM SW 3/4").

Special features:
- Particularly high torque due to reduction gear.
- Can be guided precisely thanks to comfortable two-handed operation.
- Robust design for heavy-duty use.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
5,000	600	0.85	0.34	8.5	1.600	80106075	PG 8/50 V-HV

4 Oil /min

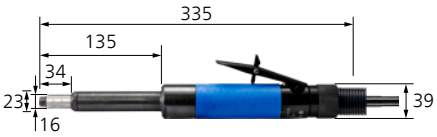
PGAS 3/35 HV

Sophisticated air-powered straight grinder with exhaust directed to the rear and dead man's switch using safety lever valve.

Contents:
1 m exhaust hose and 2.5 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 6 mm collet (collet group 6), 2 keys (1x EM SW 11 mm, 1x EM SW 14 mm).

Special features:
- High torque due to planetary gear.
- Compact, easy-to-handle grinder.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
3,500	320	0.6	0.5	8	0.850	80106055	PGAS 3/35 HV



4 Oil /min

PGAS 3/35 M-HV

Sophisticated air-powered straight grinder with exhaust directed to the rear and dead man's switch using safety lever valve.

Contents:
1 m exhaust hose and 2.5 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 6 mm collet (collet group 6), 2 keys (1x EM SW 11 mm, 1x EM SW 14 mm).

Special features:
- High torque due to planetary gear.
- Thanks to its medium-length design, the drive is ideal for use when access is restricted.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
3,500	320	0.6	0.5	8	1.198	80106065	PGAS 3/35 M-HV

2 Oil /min

PGAS 2/5 DS

Sophisticated air-powered straight grinder with exhaust directed to the rear, instant-start throttle type and easy-to-handle drive for use of countersinks.

Contents:
1 m exhaust hose and 2.5 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 1 overhead trolley, 6 mm collet (collet group 20), 2 keys (1x EM SW 12 mm, 1x EM SW 17 mm).

Special features:
- Instant start enables fast, reliable working.
- Rotational speed regulation for optimum results.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
500	160	0.4	0.3	6	0.564	80106056	PGAS 2/5 DS

Angle grinder with collet

1 Oil /min

PWAS 1/800 DV

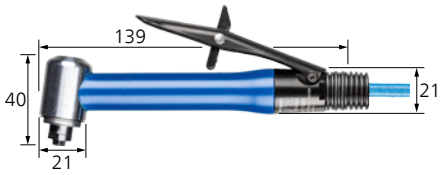
Sophisticated air-powered angle grinder with exhaust directed to the rear, collet and ring throttle version. Held like a pen.

Contents:
0.75 m exhaust hose and 1.5 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 3 mm collet (collet group 2), 2 keys (DM SW 6/8 mm).

Special features:
- Robust, without angular gear.
- Light and easy to handle.
- Smallest, high-revving angle grinder.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
80,000	75	0.15	0.14	4.8	0.094	80205010	PWAS 1/800 DV

Air grinders
Angle grinder with collet



1 Oil /min

PWAS 1/800 HV

Sophisticated air-powered angle grinder with exhaust directed to the rear, collet and dead man's switch using safety lever valve. Held like a pen.

Contents:
0.75 m exhaust hose and 1.5 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 3 mm collet (collet group 2), 2 keys (DM SW 6/8 mm).

Special features:
- Robust, without angular gear.
- Light and easy to handle.
- Smallest, high-revving angle grinder.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
80,000	75	0.15	0.14	4.8	0.134	80205015	PWAS 1/800 HV

2 Oil /min

PWAS 1/250 DV

Sophisticated compressed-air angle grinder with exhaust directed to the rear and collet. The drive with a ring throttle can be used for continuous use. Compact design and ideal for working in hard-to-reach areas.

Contents:
0.6 m exhaust hose and 2 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 3 mm collet (collet group 3), 2 keys (1x EM SW 10 mm, 1x EM SW 13/64").

Special features:
- Low angle head height.
- Slim angle head.
- Light and easy to handle.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
25,000	110	0.3	0.2	5	0.217	80205025	PWAS 1/250 DV

Arbor

The arbor replaces the collet. It is used for direct mounting of COMBIDISC tools.

Shank holder	Net weight [kg]	Item no.	Designation
No information	0.006	80810015	ASD 20 CD 1/4-20 G

2 Oil /min

PWAS 2/200 DV

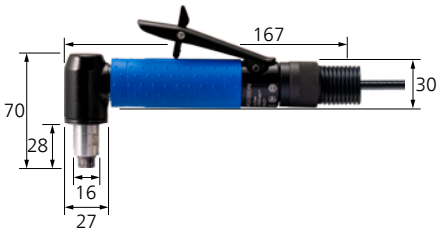
Sophisticated air-powered angle grinder with exhaust directed to the rear, collet and ring throttle version.

Contents:
1 m exhaust hose and 2.5 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 6 mm collet (collet group 6), 2 keys (1x EM SW 11 mm, 1x EM SW 14 mm).

Special features:
- Slim angle head for work in hard-to-reach areas.
- Easy to handle, compact shape.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
20,000	230	0.55	0.45	6	0.420	80205038	PWAS 2/200 DV

Air grinders
Angle grinder with collet



2 Oil /min

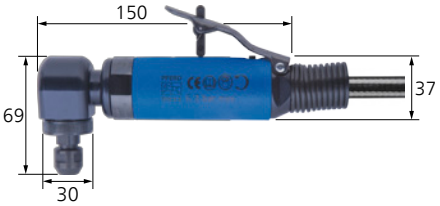
PWAS 2/200 HV

Sophisticated air-powered angle grinder with exhaust directed to the rear, collet and dead man's switch using safety lever valve.

Contents:
1 m exhaust hose and 2.5 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 6 mm collet (collet group 6), 2 keys (1x EM SW 11 mm, 1x EM SW 14 mm).

Special features:
- Slim angle head for work in hard-to-reach areas.
- Easy to handle, compact shape.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
20,000	230	0.55	0.45	6	0.460	80205036	PWAS 2/200 HV



3 Oil /min

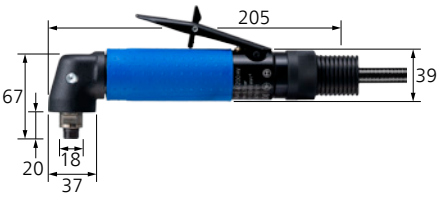
PWSA 4/200 HV

Sophisticated compressed-air angle grinder with exhaust directed to the rear, dead man's switch using safety lever valve and collet. Features a low angle head height and high spindle concentricity.

Contents:
1 m exhaust hose and 3 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 6 mm collet (collet group 5), 2 keys (1x EM SW 7/16", 1x EM SW 9/16").

Special features:
- Compact design.
- Good size/weight to output ratio.
- Dead man's switch using safety lever valve.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
20,000	300	0.57	0.42	8.5	0.520	80700277	PWSA 4/200 HV



3 Oil /min

PWAS 4/200 HV

Sophisticated compressed-air angle grinder with exhaust directed to the rear, dead man's switch using safety lever valve and collet. Ideal for work in hard-to-reach areas.

Contents:
1 m exhaust hose and 2.5 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 6 mm collet (collet group 6), 2 keys (1x EM SW 11 mm, 1x EM SW 14 mm).

Special features:
- Low angle head height.
- Dead man's switch using safety lever valve.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
20,000	370	0.7	0.6	8	0.920	80209011	PWAS 4/200 HV

Air grinders
Angle grinder with collet

3 Oil /min

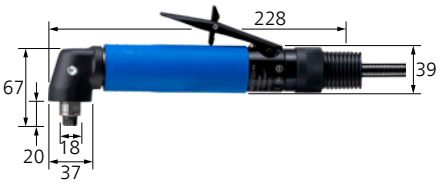
PWAS 4/160 HV

Sophisticated compressed-air angle grinder with exhaust directed to the rear, dead man's switch using safety lever valve and collet. Ideal for work in hard-to-reach areas.

Contents:
1 m exhaust hose and 2.5 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 6 mm collet (collet group 6), 2 keys (1x EM SW 11 mm, 1x EM SW 14 mm).

Special features:
- Low angle head height.
- Constant power delivery due to the centrifugal governor.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
16,000	370	0.55	0.6	8	1.004	80209016	PWAS 4/160 HV



3 Oil /min

PWAS 4/120 HV

Sophisticated compressed-air angle grinder with exhaust directed to the rear, dead man's switch using safety lever valve and collet. Ideal for work in hard-to-reach areas.

Contents:
1 m exhaust hose and 2.5 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 6 mm collet (collet group 6), 2 keys (1x EM SW 11 mm, 1x EM SW 14 mm).

Special features:
- Low angle head height.
- Constant power delivery due to the centrifugal governor.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
12,000	370	0.5	0.6	8	1.004	80209006	PWAS 4/120 HV

Angle grinder with threaded spindle

2 Oil /min

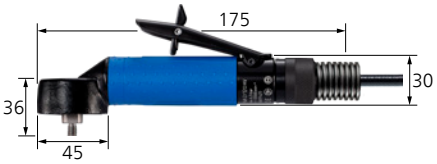
PWA 2/120 DV

Sophisticated air-powered angle grinder with 1/4-20 UNC threaded spindle, exhaust directed to the rear and ring throttle version.

Contents:
1 m exhaust hose and 2.5 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 1 key (EM SW 11 mm).

Special features:
- Special spindle for holding all COMBIDISC tools (use a backing pad without shank).
- Flat angle head for work in hard-to-reach areas.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
12,000	230	0.55	0.45	6	0.476	80205039	PWA 2/120 DV



2 Oil /min

PWA 2/120 HV

Sophisticated air-powered angle grinder with 1/4-20 UNC threaded spindle, exhaust directed to the rear and dead man's switch using safety lever valve.

Contents:
1 m exhaust hose and 2.5 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 1 key (EM SW 11 mm).

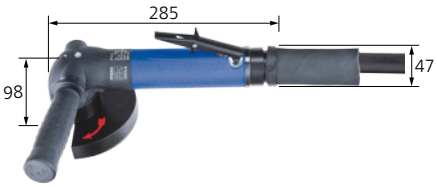
Special features:
- Special spindle for holding all COMBIDISC tools (use a backing pad without shank).
- Flat angle head for work in hard-to-reach areas.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
12,000	230	0.55	0.45	6	0.516	80205037	PWA 2/120 HV

Extensions for drive spindles

The shank of the abrasive disc holders can be replaced by suitable adapters. This enables the abrasive disc holder to be mounted directly to the drive spindle of the tool drive. Suitable for drives with spindle 1/4-20 UNC.

Net weight [kg]	Item no.	Designation
0.010	87100727	SPV20 CD 1/4-20 UNC



7 Oil /min

PWA 11/120 HV

Sophisticated compressed-air angle grinder with M14 threaded spindle and 22.23 mm tool mounting, exhaust directed to the rear and dead man's switch using safety lever valve. With maximum **tool diameter up to 125 mm**.

Contents:
1 m exhaust hose and 2.5 m air supply hose with 1/2" male threaded connection, 1 clamping nut (item no. 98980036), 2 flange screws (1x item no. 98980037, 1x item no. 98980038), 2 spacer sleeves (1x item no. 98980039, 1x item no. 98980040), 2 keys (1x item no. 91244601, 1x item no. 92785502), guard dia. 125 mm, anti-vibration handle.

Special features:
- Robust design for heavy-duty use.
- Constant power delivery due to the centrifugal governor.
- Spindle lock pin for tool change with one key.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
12,000	1,100	0.5	1.2	13	2.100	80204081	PWA 11/120 HV

PWT 26/120 HV M14

Sophisticated compressed-air angle grinder with M14 threaded spindle and 22.23 mm tool mounting, exhaust directed to the bottom and dead man's switch using safety lever valve. With maximum **tool diameter of up to 125 mm** and very powerful turbine motor.

Contents:
1/2" female connecting thread, 2 keys (1x item no. 91244601, 1x item no. 92785503), 1 clamping nut (item no. 90011450), 1 clamping flange (item no. 90011455), 1 spacer (item no. 90011460), guard dia. 125 mm, anti-vibration handle.

Special features:
- M14 threaded spindle for convenient mounting of various tools.
- Constant power delivery due to the centrifugal governor and with spindle lock pin for tool change with one key.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
12,000	2,600	0.9	2.25	16	2.200	80201010	PWT 26/120 HV M14

PWT 26/100 HV M14

Sophisticated compressed-air angle grinder with M14 threaded spindle and 22.23 mm tool mounting, exhaust directed to the bottom and dead man's switch using safety lever valve. With maximum **tool diameter of up to 150 mm** and very powerful turbine motor.

Contents:
1/2" female connecting thread, 2 keys (1x item no. 91244601, 1x item no. 92785503), 2 clamping nuts (1x item no. 90011450, 1x item no. 90011451), 3 clamping flanges (1x item no. 90011456, 1x item no. 90011457, 1x item no. 90011458), guard dia. 150 mm, anti-vibration handle.

Special features:
- M14 threaded spindle for convenient mounting of various tools.
- Constant power delivery due to the centrifugal governor and with spindle lock pin for tool change with one key.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
10,000	2,600	0.9	2.25	16	2.580	80201020	PWT 26/100 HV M14

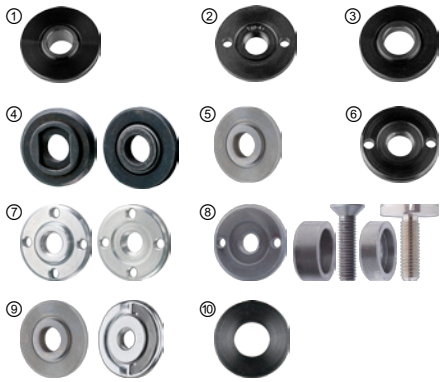
PWT 26/85 HV M14

Sophisticated compressed-air angle grinder with M14 threaded spindle and 22.23 mm tool mounting, exhaust directed to the bottom and dead man's switch using safety lever valve. With maximum **tool diameter of up to 180 mm** and very powerful turbine motor.

Contents:
1/2" female connecting thread, 2 keys (1x item no. 91244601, 1x item no. 92785503), 2 clamping nuts (1x item no. 90011450, 1x item no. 90011451), 3 clamping flanges (1x item no. 90011456, 1x item no. 90011457, 1x item no. 90011458), guard dia. 150 mm, anti-vibration handle.

Special features:
- M14 threaded spindle for convenient mounting of various tools.
- Constant power delivery due to the centrifugal governor and with spindle lock pin for tool change with one key.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
8,500	2,600	0.9	2.25	16	2.800	80201030	PWT 26/85 HV M14



Accessories for angle grinders

PFERD TOOLS offers accessories for angle grinders.

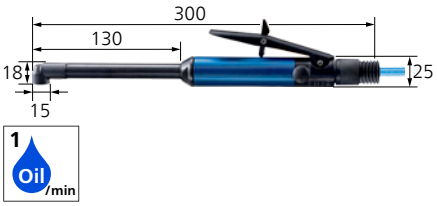
Image	Net weight [kg]	Item no.	Designation
Clamping flange			
①	0.116	90011456	SPF 90011456 M150
	0.160	90011457	SPF 90011457 K150/180
	0.101	90011458	SPF 90011458 H150/180
	0.140	90011459	SPF 90011459 M180
③	0.059	90011455	SPF 90011455
④	0.098	98960180	SPF 98960180
⑤	0.051	98970043	SPF 98970043
Clamping nut			
②	0.084	90011451	SPM 90011451 M14 T150
	0.126	90011452	SPM 90011452 M14 T180
⑥	0.069	90011450	SPM 90011450 M14
⑦	0.098	98960181	SPM 98960181
⑧	0.066	98980036	SPM 98980036 M14

Continued on next page

Air grinders
Angle grinder with threaded spindle

Image	Net weight [kg]	Item no.	Designation
Quick-mounting nut			
⑨	0.610	98970042	SSM 98970042
Spacer sleeve – Surface grinding			
⑧	0.008	98980039	DHFL 98980039
Spacer sleeve – Cutting			
⑧	0.010	98980040	DHTR 98980040
Spacer			
⑩	0.018	90011460	DS 90011460
⑧	0.003	98980037	FLS 98980037
Flange screw COMBICLICK			
⑧	0.010	98980038	FLS-CC 98980038

Angle grinder with hexagon mounting



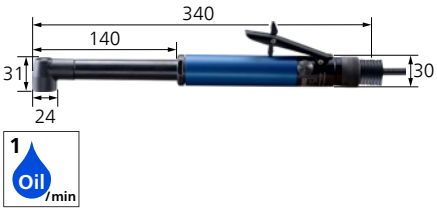
PWA 1/9 V-HV HEX 3 mm

Sophisticated compressed-air angle grinder with low air consumption and adjustable rotational speed regulation. Ideal for deburring hard-to-reach areas such as holes with cross holes.

Contents:
1 m exhaust hose and 2.5 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI).

Special features:
- Very quiet and robust.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
900	35	0.19	0.17	4.8	0.400	80700492	PWA 1/9 V-HV HEX 3 mm



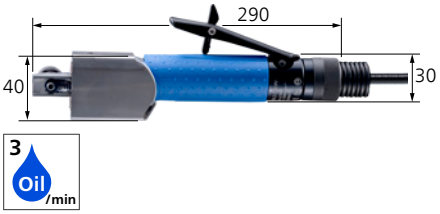
PWA 1/5 V-HV HEX 1/4"

Sophisticated compressed-air angle grinder with low air consumption and adjustable rotational speed regulation. Ideal for deburring hard-to-reach areas such as holes with cross holes.

Contents:
1 m exhaust hose and 2.5 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI).

Special features:
- Very quiet and robust.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
500	65	0.35	0.3	6	0.850	80700493	PWA 1/5 V-HV HEX 1/4"



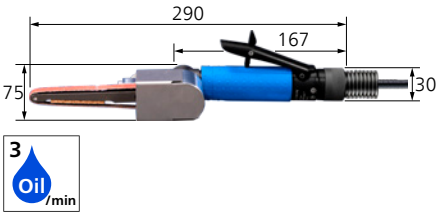
PBA 2/200 HV oVA

Sophisticated compressed-air belt grinder with a **belt length of 305 mm x belt width 3 – 16 mm**, exhaust directed to the rear and dead man's switch using safety lever valve.

Contents:
1 m exhaust hose and 2.5 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 1 key (1x SKS SW 4 mm), protective cover.

Special features:
- Suitable for belt grinder attachment arms from group 1.
- Easy to handle, compact shape.

Belt speed [m/s]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
22	230	0.55	0.45	6	0.604	80705052	PBA 2/200 HV oVA



PBA 2/200 HV

Sophisticated compressed-air belt grinder with a **belt length of 305 mm x belt width 3 – 16 mm**, exhaust directed to the rear and dead man's switch using safety lever valve.

Contents:
1 m exhaust hose and 2.5 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 1 key (1x SKS SW 4 mm), protective cover.

Special features:
- Incl. belt grinder attachment arm BSVAK 9/9 x 305 (belt grinder attachment arm group 1).
- Easy to handle, compact shape.

Belt speed [m/s]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
22	230	0.55	0.45	6	0.687	80705051	PBA 2/200 HV

Belt grinder attachment arm group 1

Belt grinder attachment arm BSVAK 9/25

Belt grinder attachment arm in robust design and extremely slim fixing lug on the facing roller. With belt arm guide that can be fixed.

Special features:
- With asymmetrical arms for flush lateral grinding.

Width x roll dia. [mm]	Suitable belt width [mm]	Suitable belt length [mm]	Net weight [kg]	Item no.	Designation
9 x 25	3, 6, 9, 12, 16	305	0.083	84200318	BSVAK 9/25 x 305

Belt grinder attachment arm BSVAK 9/25-1

Belt grinder attachment arm in robust design and extremely slim fixing lug on the facing roller. With belt arm guide that can be fixed.

Special features:
- With asymmetrical arms for flush lateral grinding.
- With conical guide roller (range 1 mm).

Width x roll dia. [mm]	Suitable belt width [mm]	Suitable belt length [mm]	Net weight [kg]	Item no.	Designation
9 x 25	3, 6, 9, 12	305	0.082	84200319	BSVAK 9/25-1 x 305

Belt grinder attachment arm BSVAK 4/16

Belt grinder attachment arm in robust design and extremely slim fixing lug on the facing roller. With belt arm guide that can be fixed.

Special features:
- Use of the full roller width.
- With pad for stabilization/support.

Width x roll dia. [mm]	Suitable belt width [mm]	Suitable belt length [mm]	Net weight [kg]	Item no.	Designation
4 x 16	3, 6, 9	305	0.052	84200315	BSVAK 4/16 x 305

Belt grinder attachment arm BSVAK 9/9

Belt grinder attachment arm in robust design and extremely slim fixing lug on the facing roller. With belt arm guide that can be fixed.

Special features:
- Use of the full roller width.
- With pad for stabilization/support.

Width x roll dia. [mm]	Suitable belt width [mm]	Suitable belt length [mm]	Net weight [kg]	Item no.	Designation
9 x 9	9, 12	305	0.075	84200316	BSVAK 9/9 x 305

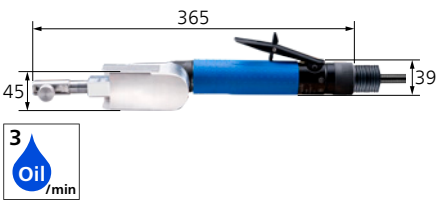
Belt grinder attachment arm BSVAK 9/16

Belt grinder attachment arm in robust design and extremely slim fixing lug on the facing roller. With belt arm guide that can be fixed.

Special features:
- Use of the full roller width.
- With pad for stabilization/support.

Width x roll dia. [mm]	Suitable belt width [mm]	Suitable belt length [mm]	Net weight [kg]	Item no.	Designation
9 x 16	9, 12	305	0.088	84200317	BSVAK 9/16 x 305

Belt grinders and belt arms



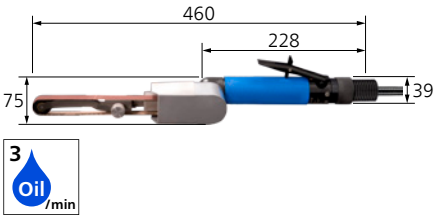
PBA 4/160 HV oVA

Sophisticated compressed-air belt grinder with a **belt length of 520 mm (*610 mm) x belt width 3 – 20 mm**, exhaust directed to the rear and dead man's switch using safety lever valve.

Contents:
1 m exhaust hose and 2.5 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 2 keys (1x SKS SW 3 mm, 1x SKS SW 4 mm), protective cover.

Special features:
- Suitable for belt grinder attachment arms from group 2.
- Easy to handle, compact shape.
- *The BSAD 41/36 x 610 belt grinding adapter achieves a belt length of 610 mm.

Belt speed [m/s]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
19.3	370	0.55	0.6	8	1.191	80705012	PBA 4/160 HV oVA



PBA 4/160 HV

Sophisticated compressed-air belt grinder with a **belt length of 520 mm (*610 mm) x belt width 3 – 20 mm**, exhaust directed to the rear and dead man's switch using safety lever valve.

Contents:
1 m exhaust hose and 2.5 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), protective cover, 2 keys (1x SKS SW 3 mm, 1x SKS SW 4 mm).

Special features:
- *With **adapter BSAD 41/36 x 610.**
- The belt grinder attachment can be pivoted on the drive system.
- Incl. belt grinder attachment arm BSVA 9/25x520 (belt grinder attachment arm group 2).

Belt speed [m/s]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
19.3	370	0.55	0.6	8	1.286	80705011	PBA 4/160 HV

Belt grinder attachment arm group 2

Belt grinder attachment arm BSVA 9/25-1

Belt grinder attachment arm in robust design and extremely slim fixing lug on the facing roller. With belt arm guide that can be fixed.

Special features:
- Use of the full roller width.
- With conical guide roller (range 1 mm).

Width x roll dia. [mm]	Suitable belt width [mm]	Suitable belt length [mm]	Net weight [kg]	Item no.	Designation
9 x 25	3, 6, 9, 12	520, 610	0.095	84200072	BSVA 9/25-1 x 520

Belt grinder attachment arm BSVA 4/16

Belt grinder attachment arm in robust design and extremely slim fixing lug on the facing roller. With belt arm guide that can be fixed.

Special features:
- Use of the full roller width.

Width x roll dia. [mm]	Suitable belt width [mm]	Suitable belt length [mm]	Net weight [kg]	Item no.	Designation
4 x 16	3, 6, 9	520, 610	0.060	84200050	BSVA 4/16 x 520

Belt grinder attachment arm BSVA 9/16

Belt grinder attachment arm in robust design and extremely slim fixing lug on the facing roller. With belt arm guide that can be fixed.

Special features:
- Use of the full roller width.

Width x roll dia. [mm]	Suitable belt width [mm]	Suitable belt length [mm]	Net weight [kg]	Item no.	Designation
9 x 16	9, 12	520, 610	0.096	84200060	BSVA 9/16 x 520

Belt grinder attachment arm BSVA 12/19

Belt grinder attachment arm in robust design and extremely slim fixing lug on the facing roller. With belt arm guide that can be fixed.

Special features:
- Use of the full roller width.

Width x roll dia. [mm]	Suitable belt width [mm]	Suitable belt length [mm]	Net weight [kg]	Item no.	Designation
12 x 19	12, 16	520, 610	0.107	84200080	BSVA 12/19 x 520

Belt grinder attachment arm BSVA 9/25

Belt grinder attachment arm in robust design and extremely slim fixing lug on the facing roller. With asymmetrical arms for flush lateral grinding and belt arm guide that can be fixed.

Special features:
- Use of the full roller width.

Width x roll dia. [mm]	Suitable belt width [mm]	Suitable belt length [mm]	Net weight [kg]	Item no.	Designation
9 x 25	3, 6, 9, 12, 16	520, 610	0.095	84200070	BSVA 9/25 x 520

Belt grinder attachment arm BSVA 18/23

Belt grinder attachment arm in robust design. With belt arm guide that can be fixed.

Special features:
- With metal roller and pad for stabilization/ support.

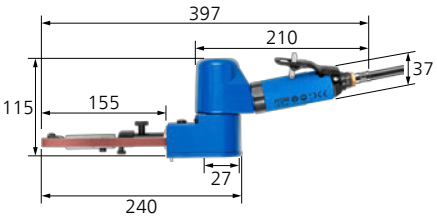
Width x roll dia. [mm]	Suitable belt width [mm]	Suitable belt length [mm]	Net weight [kg]	Item no.	Designation
18 x 23	20	520, 610	0.150	84200085	BSVA 18/23 x 520

Adapter for the belt grinder attachment arm group 2

Adapter for belt grinder attachment arm. Enables the use of belts with a belt length of 610 mm and a belt width of 3 – 20 mm.

Suitable belt length [mm]	Net weight [kg]	Item no.	Designation
610	0.080	84200230	BSAD 41/36 x 610

Belt grinders and belt arms



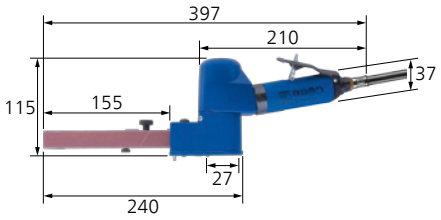
PBS 5/155 HV 824

Sophisticated compressed-air belt grinder with a **belt length of 480 mm (*610 mm) x belt width 6 – 25 mm**, attachment arm, exhaust directed to the front and dead man's switch using safety lever valve.

Contents:
3 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 2 keys (1x SKS SW 3 mm, 1x SKS SW 5/32"), belt grinder attachment arm BSVA 5/155-8/24 x 480.

Special features:
- *Belt length 610 mm x width 6 – 12 mm with belt grinder attachment arm from group 3.
- The belt grinder attachment can be pivoted on the drive system.
- Balanced handling.

Belt speed [m/s]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
21	370	0.6	0.4	8.5	1.390	80704010	PBS 5/155 HV 824



4 Oil /min

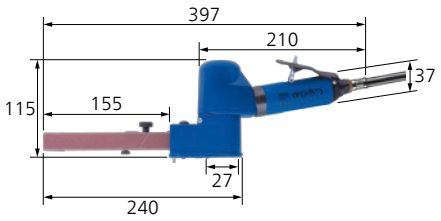
PBS 5/155 HV 1924

Sophisticated compressed-air belt grinder with a **belt length of 480 mm (*610 mm) x belt width 6 – 25 mm**, attachment arm, exhaust directed to the front and dead man's switch using safety lever valve.

Contents:
3 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 2 keys (1x SKS SW 3 mm, 1x SKS SW 5/32"), belt grinder attachment arm BSVA 5/155-19/24 x 480.

Special features:
- *Belt length 610 mm x width 6 – 12 mm with belt grinder attachment arm from group 3.
- The belt grinder attachment can be pivoted on the drive system.
- Balanced handling.

Belt speed [m/s]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
21	370	0.6	0.4	8.5	1.390	80704020	PBS 5/155 HV 1924



4 Oil /min

PBS 5/155 HV 2324

Sophisticated compressed-air belt grinder with a **belt length of 480 mm (*610 mm) x belt width 6 – 25 mm**, attachment arm, exhaust directed to the front and dead man's switch using safety lever valve.

Contents:
3 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 2 keys (1x SKS SW 3 mm, 1x SKS SW 5/32"), belt grinder attachment arm BSVA 5/155-23/24 x 480.

Special features:
- *Belt length 610 mm x width 6 – 12 mm with belt grinder attachment arm from group 3.
- The belt grinder attachment can be pivoted on the drive system.
- Balanced handling.

Belt speed [m/s]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
21	370	0.6	0.4	8.5	1.390	80704025	PBS 5/155 HV 2324

Belt grinder attachment arm group 3

Belt grinder attachment arm BSVA 5/155-19/24x480

Belt grinder attachment arm in robust steel design and with belt arm guide that can be fixed.

Special features:
- Use of the full roller width.

Width x roll dia. [mm]	Suitable belt width [mm]	Suitable belt length [mm]	Net weight [kg]	Item no.	Designation
19 x 24	16, 20	480	0.086	90002115	BSVA 5/155-19/24x480

Belt grinder attachment arm BSVA 5/155-8/24x480

Belt grinder attachment arm in robust steel design and with belt arm guide that can be fixed.

Special features:
- With asymmetrical arms for flush lateral grinding.

Width x roll dia. [mm]	Suitable belt width [mm]	Suitable belt length [mm]	Net weight [kg]	Item no.	Designation
8 x 24	6, 10, 12	480	0.070	90002116	BSVA 5/155-8/24x480

Belt grinder attachment arm BSVA 5/155-23/24x480

Belt grinder attachment arm in robust steel design and with belt arm guide that can be fixed.

Special features:
- Use of the full roller width.

Width x roll dia. [mm]	Suitable belt width [mm]	Suitable belt length [mm]	Net weight [kg]	Item no.	Designation
23 x 24	25	480	0.088	90002117	BSVA 5/155-23/24x480

Belt grinder attachment arm BSVA 5/155-4/16x610

Belt grinder attachment arm in robust steel design and with belt arm guide that can be fixed.

Special features:
- With slim fixing lugs on the facing roller.

Width x roll dia. [mm]	Suitable belt width [mm]	Suitable belt length [mm]	Net weight [kg]	Item no.	Designation
4 x 16	6	610	0.070	90002152	BSVA 5/155-4/16x610

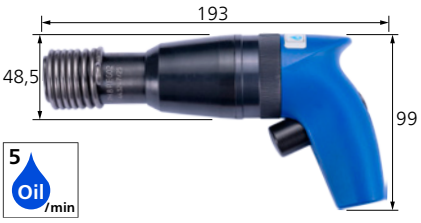
Belt grinder attachment arm BSVA 5/155-9/16x610

Belt grinder attachment arm in robust steel design and with belt arm guide that can be fixed.

Special features:
- With slim fixing lugs on the facing roller.

Width x roll dia. [mm]	Suitable belt width [mm]	Suitable belt length [mm]	Net weight [kg]	Item no.	Designation
9 x 16	6, 10, 12	610	0.132	90002151	BSVA 5/155-9/16x610

Chisel hammers and accessories



PH 8 P EG01

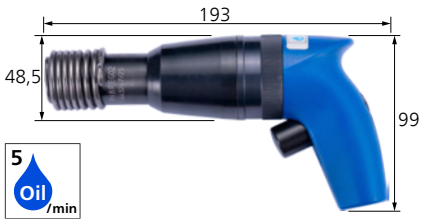
The powerful and ergonomic chisel hammer with exhaust directed to the front and plastic silencer is suitable for all chisels in **insertion group EG01** and features a chisel holding spring to hold the chisels.

Contents:
1x chisel holding spring MHF 28, 1x damping ring DR D12X7.

Special features:
- Can be activated at 1.5 bar or above.
- Safe to operate due to its compact, lightweight design.
- Pistol grip ensures ideal handling.

Air consumption [m³/min]	Min. ø supply air hose inside [mm]	Impact energy [J]	Diam. piston [mm]	Stroke length [mm]	Exposure time [h]	Net weight [kg]	Item no.	Designation
0.3	8	1.2	16	45	18.37	0.800	80300010	PH 8 P EG01

New item



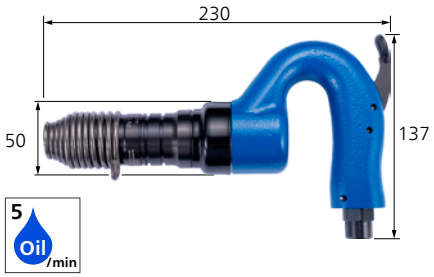
PH 8 P EG02

The powerful and ergonomic chisel hammer with exhaust directed to the front and plastic silencer is suitable for all chisels in **insertion group EG02** and features a chisel holding spring to hold the chisels.

Contents:
1x chisel holding spring MHF 28, 1x damping ring DR D12X7.

Special features:
- Can be activated at 1.5 bar or above.
- Safe to operate due to its compact, lightweight design.
- Pistol grip ensures ideal handling.

Air consumption [m³/min]	Min. ø supply air hose inside [mm]	Impact energy [J]	Diam. piston [mm]	Stroke length [mm]	Exposure time [h]	Net weight [kg]	Item no.	Designation
0.3	8	1.2	16	45	18.37	0.800	80300020	PH 8 P EG02



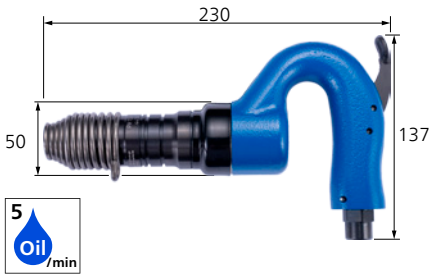
PH 13 F EG03

The chisel hammer with exhaust directed to the front and steel silencer is suitable for all chisels in insertion group EG03 and features a chisel holding spring to hold the chisels.

Contents:
1x chisel holding spring MHF 31-R, 1x damping ring DR D14X8.

Special features:
- Can be activated at three bar or above.
- A sophisticated overall concept makes the chisel hammers high-performance and versatile.
- Open fist grip ensures ideal handling.

Air consumption [m³/min]	Min. ø supply air hose inside [mm]	Impact energy [J]	Diam. piston [mm]	Stroke length [mm]	Exposure time [h]	Net weight [kg]	Item no.	Designation
0.3	10	4	20	40	4.1	1.300	80300030	PH 13 F EG03



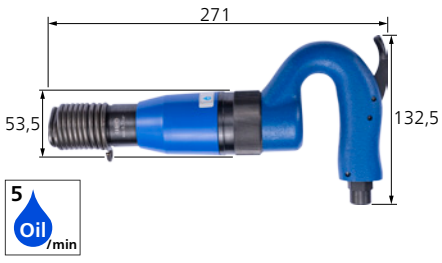
PH 13 F EG05

The chisel hammer with exhaust directed to the front and steel silencer is suitable for all chisels in **insertion group EG05** and features a chisel holding spring to hold the chisels.

Contents:
1x chisel holding spring MHF 31-R, 1x damping ring DR D14X8.

Special features:
- Can be activated at three bar or above.
- A sophisticated overall concept makes the chisel hammers high-performance and versatile.
- Fist grip ensures ideal handling.

Air consumption [m³/min]	Min. ø supply air hose inside [mm]	Impact energy [J]	Diam. piston [mm]	Stroke length [mm]	Exposure time [h]	Net weight [kg]	Item no.	Designation
0.3	10	4	20	40	4.1	1.300	80300050	PH 13 F EG05



PH 18 F EG03

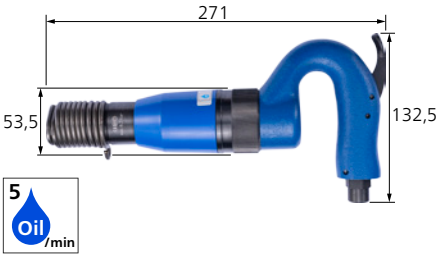
The chisel hammer with exhaust directed to the front and plastic silencer is suitable for all chisels in **insertion group EG03** and features a chisel holding spring to hold the chisels.

Contents:
1x chisel holding spring MHF 31, 1x damping ring DR D15X7.

Special features:
- Can be activated at three bar or above.
- A sophisticated overall concept makes the chisel hammers high-performance and versatile.
- Open fist grip ensures ideal handling.

Air consumption [m³/min]	Min. ø supply air hose inside [mm]	Impact energy [J]	Diam. piston [mm]	Stroke length [mm]	Exposure time [h]	Net weight [kg]	Item no.	Designation
0.4	10	5.9	20	60	1.5	1.800	80300060	PH 18 F EG03

New item



PH 18 F EG05

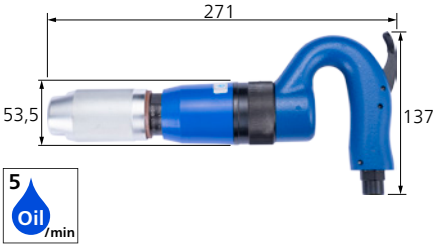
The chisel hammer with exhaust directed to the front and plastic silencer is suitable for all chisels in **insertion group EG05** and features a chisel holding spring to hold the chisels.

Contents:
1x chisel holding spring MHF 31, 1x damping ring DR D15X7.

Special features:
- Can be activated at three bar or above.

- A sophisticated overall concept makes the chisel hammers high-performance and versatile.
- Open fist grip ensures ideal handling.

Air consumption [m³/min]	Min. ø supply air hose inside [mm]	Impact energy [J]	Diam. piston [mm]	Stroke length [mm]	Exposure time [h]	Net weight [kg]	Item no.	Designation
0.4	10	5.9	20	60	1.5	1.800	80300070	PH 18 F EG05



PH 18 F-SK EG05

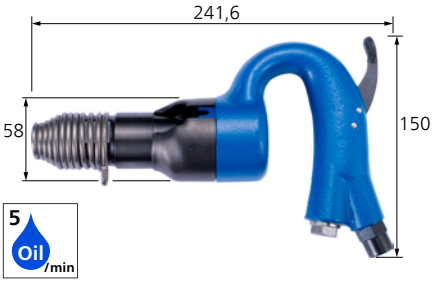
The chisel hammer with exhaust directed to the front and plastic silencer is suitable for all chisels in **insertion group EG05** and features a chisel holding spring to hold the chisels.

Contents:
1x screw cap SK PH 18 F-SK, 1x damping ring DR D17X10.

Special features:
- Can be activated at three bar or above.

- A sophisticated overall concept makes the chisel hammers high-performance and versatile.
- Open fist grip ensures ideal handling.

Air consumption [m³/min]	Min. ø supply air hose inside [mm]	Impact energy [J]	Diam. piston [mm]	Stroke length [mm]	Exposure time [h]	Net weight [kg]	Item no.	Designation
0.4	10	5.9	20	60	1.5	1.800	80300080	PH 18 F-SK EG05



PH 23 F EG03

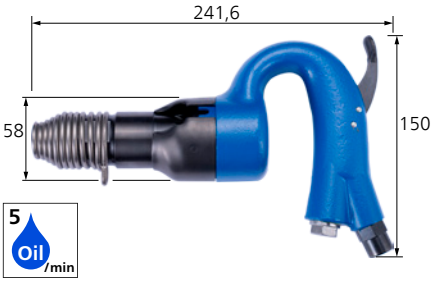
The chisel hammer with exhaust directed to the front and steel silencer is suitable for all chisels in insertion group EG03 and features a chisel holding spring to hold the chisels.

Contents:
1x chisel holding spring MHF 31-R, 1x damping ring DR D14X8.

Special features:
- Can be activated at three bar or above.

- A sophisticated overall concept makes the chisel hammers high-performance and versatile.
- Open fist grip ensures ideal handling.

Air consumption [m³/min]	Min. ø supply air hose inside [mm]	Impact energy [J]	Diam. piston [mm]	Stroke length [mm]	Exposure time [h]	Net weight [kg]	Item no.	Designation
0.3	10	5	20.5	40	3.6	2.300	80300090	PH 23 F EG03



PH 23 F EG05

The chisel hammer with exhaust directed to the front and steel silencer is suitable for all chisels in **insertion group EG05** and features a chisel holding spring to hold the chisels.

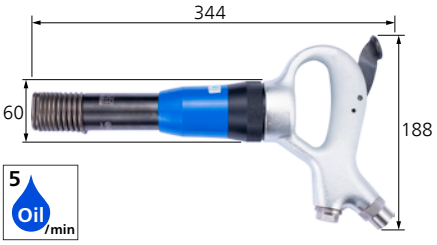
Contents:
1x chisel holding spring MHF 31-R, 1x damping ring DR D14X8.

Special features:
- Can be activated at three bar or above.

- A sophisticated overall concept makes the chisel hammers high-performance and versatile.
- Open fist grip ensures ideal handling.

Air consumption [m³/min]	Min. ø supply air hose inside [mm]	Impact energy [J]	Diam. piston [mm]	Stroke length [mm]	Exposure time [h]	Net weight [kg]	Item no.	Designation
0.3	10	5	20.5	40	3.6	2.300	80300110	PH 23 F EG05

New item



PH 34 F EG03

The chisel hammer with exhaust directed to the front and plastic silencer is suitable for all chisels in **insertion group EG03** and features a chisel holding spring to hold the chisels.

Contents:
1x chisel holding spring MHF 31, 1x damping ring DR D15X7.

Special features:
- Can be activated at three bar or above.

- A sophisticated overall concept makes the chisel hammers high-performance and versatile.
- Closed fist grip ensures ideal handling.

Air consumption [m³/min]	Min. ø supply air hose inside [mm]	Impact energy [J]	Diam. piston [mm]	Stroke length [mm]	Exposure time [h]	Net weight [kg]	Item no.	Designation
0.4	10	9.2	20	90	1.8	3.400	80300120	PH 34 F EG03

PH 34 F EG05

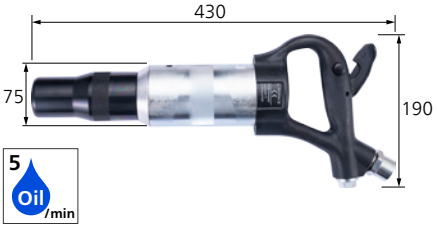
The chisel hammer with exhaust directed to the front and plastic silencer is suitable for all chisels in **insertion group EG05** and features a chisel holding spring to hold the chisels.

Contents:
1x chisel holding spring MHF 31, 1x damping ring DR D15X7.

Special features:
- Can be activated at three bar or above.

- A sophisticated overall concept makes the chisel hammers high-performance and versatile.
- Closed fist grip ensures ideal handling.

Air consumption [m³/min]	Min. ø supply air hose inside [mm]	Impact energy [J]	Diam. piston [mm]	Stroke length [mm]	Exposure time [h]	Net weight [kg]	Item no.	Designation
0.4	10	9.2	20	90	1.8	3.400	80300130	PH 34 F EG05



PH 66 F-SK EG06

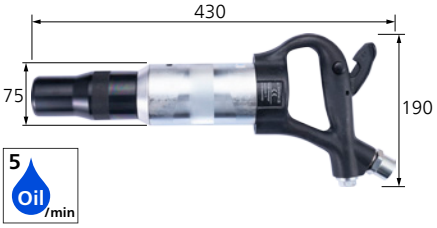
The chisel hammer with exhaust directed to the front and metal silencer is suitable for all chisels in **insertion group EG06** and features a protective cap instead of a chisel holding spring to hold the chisels. Suitable for hot and melting applications.

Contents:
1x screw cap SK PH 66 F-SK, 1x damping ring DR D24.2X35.

Special features:
- Can be activated at three bar or above.

- Vibration- and noise-damped, and durable thanks to robust design.
- Closed fist grip ensures ideal handling; safe working due to reliable lock system.

Air consumption [m³/min]	Min. ø supply air hose inside [mm]	Impact energy [J]	Diam. piston [mm]	Stroke length [mm]	Exposure time [h]	Net weight [kg]	Item no.	Designation
0.4	13	16	29	95	5.4	6.600	80300140	PH 66 F-SK EG06



PH 66 F-SK EG07

The chisel hammer with exhaust directed to the front and metal silencer is suitable for all chisels in **insertion group EG07** and features a protective cap instead of a chisel holding spring to hold the chisels. Suitable for hot and melting applications.

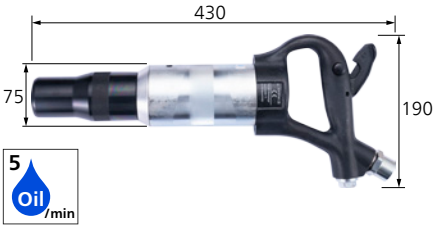
Contents:
1x screw cap SK PH 66 F-SK, 1x damping ring DR D24.2X35.

Special features:
- Can be activated at three bar or above.

- Vibration- and noise-damped, and durable thanks to robust design.
- Closed fist grip ensures ideal handling; safe working due to reliable lock system.

Air consumption [m³/min]	Min. ø supply air hose inside [mm]	Impact energy [J]	Diam. piston [mm]	Stroke length [mm]	Exposure time [h]	Net weight [kg]	Item no.	Designation
0.4	13	16	29	95	5.4	6.600	80300150	PH 66 F-SK EG07

New item



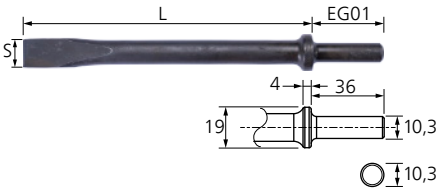
PH 66 F-SK EG08

The chisel hammer with exhaust directed to the front and metal silencer is suitable for all chisels in **insertion group EG08** and features a protective cap instead of a chisel holding spring to hold the chisels. Suitable for hot and melting applications.

Contents:
1x screw cap SK PH 66 F-SK, 1x damping ring D24.7X45.

Special features:
- Can be activated at three bar or above.
- Vibration- and noise-damped, and durable thanks to robust design.
- Closed fist grip ensures ideal handling; safe working due to reliable lock system.

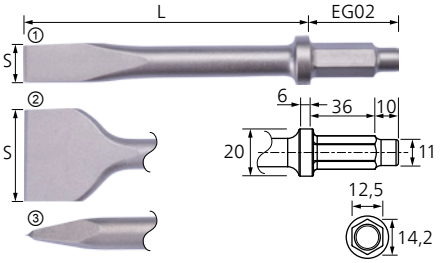
Air consumption [m³/min]	Min. ø supply air hose inside [mm]	Impact energy [J]	Diam. piston [mm]	Stroke length [mm]	Exposure time [h]	Net weight [kg]	Item no.	Designation
0.4	13	16	29	95	5.4	6.600	80300160	PH 66 F-SK EG08



Chisels EG01

Chisels from insertion group 01 for air grinders.

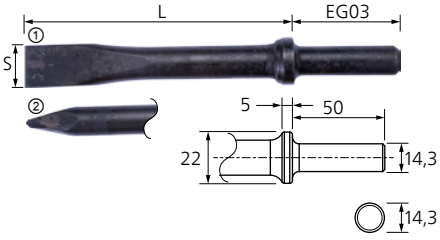
Chisel type	Usable length L [mm]	Width cutting edge S [mm]	Insertion group	Net weight [kg]	Item no.	Designation
Flat chisel	150	15	EG01	0.177	98989011	FM 150X15 EG01



Chisels EG02

Chisels from insertion group 02 for air grinders.

Image	Chisel type	Usable length L [mm]	Width cutting edge S [mm]	Insertion group	Net weight [kg]	Item no.	Designation
①	Flat chisel	125	15	EG02	0.149	98989023	FM 125X15 EG02
		250	15	EG02	0.284	98989024	FM 250X15 EG02
②	Wide chisel	125	40	EG02	0.194	98989025	BM 125X40 EG02
③	Pointed chisel	125	-	EG02	0.144	98989022	SM 125 EG02
		200	-	EG02	0.225	98989021	SM 200 EG02

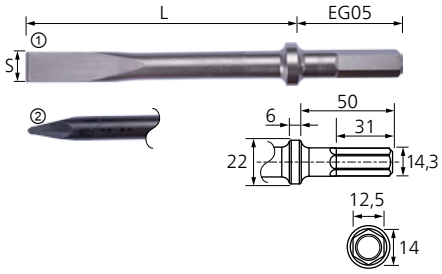


Chisels EG03

Chisels from insertion group 03 for air grinders.

Image	Chisel type	Usable length L [mm]	Width cutting edge S [mm]	Insertion group	Net weight [kg]	Item no.	Designation
①	Flat chisel	135	20	EG03	0.267	98989032	FM 135X20 EG03
②	Pointed chisel	150	-	EG03	0.298	98989031	SM 150 EG03

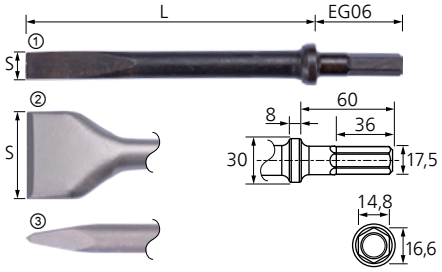
New item



Chisels EG05

Chisels from insertion group 05 for air grinders.

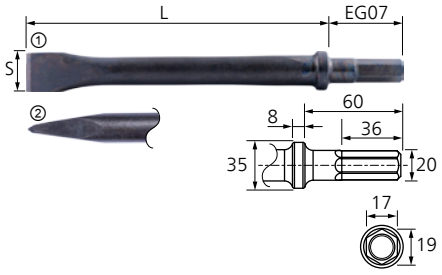
Image	Chisel type	Usable length L [mm]	Width cutting edge S [mm]	Insertion group	Net weight [kg]	Item no.	Designation
①	Flat chisel	200	15	EG05	0.216	98989053	FM 200X15 EG05
			20	EG05	0.376	98989054	FM 200X20 EG05
②	Pointed chisel	200	-	EG05	0.368	98989051	SM 200 EG05
		250	-	EG05	0.448	98989052	SM 250 EG05



Chisels EG06

Chisels from insertion group 06 for air grinders.

Image	Chisel type	Usable length L [mm]	Width cutting edge S [mm]	Insertion group	Net weight [kg]	Item no.	Designation
①	Flat chisel	190	20	EG06	0.580	98989063	FM 190X20 EG06
		450	25-30	EG06	1.187	98989064	FM 450X25-30 EG06
②	Wide chisel	200	60	EG06	0.732	98989065	BM 200X60 EG06
③	Pointed chisel	260	-	EG06	0.721	98989061	SM 260 EG06
		350	-	EG06	0.890	98989062	SM 350 EG06

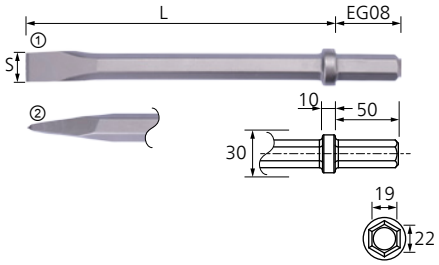


Chisels EG07

Chisels from insertion group 07 for air grinders.

Image	Chisel type	Usable length L [mm]	Width cutting edge S [mm]	Insertion group	Net weight [kg]	Item no.	Designation
①	Flat chisel	260	30	EG07	1.100	98989073	FM 260X30 EG07
		450	30	EG07	1.500	98989074	FM 450X30 EG07
②	Pointed chisel	250	-	EG07	0.859	98989071	SM 250 EG07
		450	-	EG07	1.500	98989072	SM 450 EG07

New item



Chisels EG08

Chisels from insertion group 08 for air grinders.

Image	Chisel type	Usable length L [mm]	Width cutting edge S [mm]	Insertion group	Net weight [kg]	Item no.	Designation
①	Flat chisel	250	25	EG08	0.719	98989083	FM 250X25 EG08
		450	25	EG08	1.206	98989084	FM 450X25 EG08
②	Pointed chisel	250	-	EG08	0.704	98989081	SM 250 EG08
		600	-	EG08	1.559	98989082	SM 600 EG08

Chisel damping rings for air hammers

Chisel damping rings for rebound in various diameters and lengths. They damp impacts and protect the machine.

Special features:
- Reduce vibrations and volume.

Image	Dia internal [mm]	Length [mm]	Net weight [kg]	Item no.	Designation
①	12	7	0.003	98988201	DR D12X7
	14	8	0.005	98988203	DR D14X8
	15	7	0.004	98988202	DR D15X7
	17	10	0.005	98988206	DR D17X10
②	24.2	35	0.032	98988204	DR D24,2X35
	24.7	45	0.042	98988205	DR D24,7X45

Chisel holding springs

Standard chisel holding springs with different internal diameters.

Dia internal [mm]	Net weight [kg]	Item no.	Designation
Standard			
28	0.067	98988001	MHF 28
31	0.120	98988002	MHF 31
Wide			
28	0.083	98988004	MHF 28-B
31	0.156	98988005	MHF 31-B
Round			
31	0.116	98988003	MHF 31-R

New item

1 Oil /min

PH 8/90 HV

Chipping hammer with exhaust directed to the front and dead man's switch using safety lever valve. It is suitable for all tungsten carbide chisels and features a chisel mounting with union nut.

Contents:
1.5 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI).

Special features:
- Ideal for hard-to-reach areas or small surfaces.
- Safe working due to dead man's switch and low vibrations.
- Compact, easy-to-handle grinder.

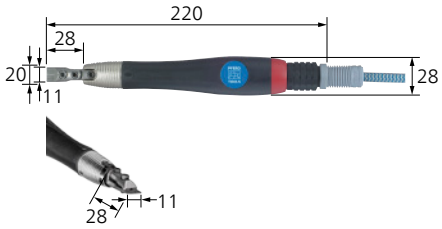
Max. operating pressure [bar]	Air consumption [m³/min]	Frequency [strokes/min]	Number of blows	Net weight [kg]	Item no.	Designation
6.3	0.09	150	9,000	1.450	80708501	PH 8/90 HV

Chisels for chipping hammers

Flat chisel with tungsten carbide insert in various versions.

Width cutting edge S [mm]	Net weight [kg]	Item no.	Designation
10	0.036	98989001	HM-FM 100X10
17	0.040	98989002	HM-FM 100X17
36	0.058	98989003	HM-FM 100X36

Filing machines



Oil

PFGA 07/220

Air-powered filing machine with exhaust directed to the rear for work on surfaces and in hard-to-reach areas. The drive has a ring throttle version.

Contents:
0.32 m exhaust hose and 1.5 m air supply hose with 1/4" female threaded connection and threaded quick coupling (STGA), 1 key (SKS SW 2.5 mm), arbor.

Special features:
- Light and easy to handle.
- Tool mountings: Round shank dia. 3 mm slot mounting (L x W x D) 10 x 1.5 x 10 mm for ceramic fibre files.

Frequency [strokes/min]	Stroke length [mm]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
22,000	0.7	0.05	0.03	4	0.180	80600200	PFGA 07/220

1 Oil /min

PF 8/90 HV

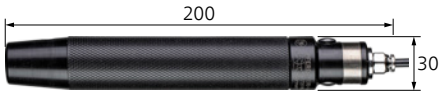
Sophisticated air-powered filing machine with exhaust directed to the front and dead man's switch using lever throttle. Suitable for files with a round shank.

Contents:
1.5 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 1 key (SF 24 STG-IG 1/4).

Special features:
- **Tool mounting dia. 4 mm to 6 mm.**
- Smooth running and very precise.
- Very low vibrations.

Frequency [strokes/min]	Stroke length [mm]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
9,000	8	0.078	0.078	4.8	1.038	80600205	PF 8/90 HV

New item



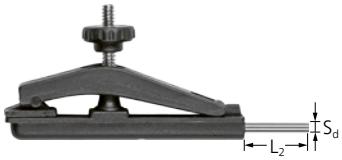
PF 4/84 SV

Sophisticated air-powered filing machine with exhaust directed to the front and push-pull throttle for convenient continuous use. Suitable for files with a round shank, ceramic fibre files and grinding stones.

Contents:
1.5 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), 1 key (SKS SW 3 mm).

Special features:
- **Tool mounting dia. 3 mm to 4 mm.**
- Smooth running and very precise.
- Very low vibrations.

Frequency [strokes/min]	Stroke length [mm]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
8,400	4	0.03	0.03	3	0.300	80600210	PF 4/84 SV



Arbor SPSH 3–13 mm 3.1

The arbor for the manual filing tool is variably adjustable.

Special features:
- Only use in conjunction with AD PF 4.5/4.0.

S_d [inch]	L_2 [mm]	Net weight [kg]	Item no.	Designation
1/8	20	0.021	33509030	SPSH 3-13 3,1

AD PF 4.5/4.0

Adapter for filing machine.

Net weight [kg]	Item no.	Designation
0.009	87200306	AD PF 4.5/4.0

Needle scalers and accessories

PN 18 HV

The straight needle scaler with exhaust directed to the front and safety lever valve is particularly suitable for coatings and solid metal parts as the abrupt needle movements are designed for robust materials.

Contents:
1.5 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), spare needle set ENS-PN 18-127 mm.

Special features:
- Suitable needle scaler for the needle set with 18 needles.
- Low vibrations.
- Ideal for hard-to-reach areas or small surfaces.

Air consumption [m³/min]	Min. ø supply air hose inside [mm]	Frequency [strokes/min]	Needle length [mm]	Net weight [kg]	Item no.	Designation
0.08	10	6,900	127	2.400	80600300	PN 18 HV

New item

PN 19 P

The needle scaler with pistol grip, exhaust directed to the front and safety lever valve is particularly suitable for coatings and solid metal parts as the abrupt needle movements are designed for robust materials.

Contents:
1.5 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), spare needle set ENS-PN 19 P-140 mm.

Special features:
- Suitable needle scaler for the needle set with 19 needles.
- Low vibrations.
- Ideal for hard-to-reach areas or small surfaces.

Air consumption [m³/min]	Min. ø supply air hose inside [mm]	Frequency [strokes/min]	Needle diameter [mm]	Number of needles	Needle length [mm]	Net weight [kg]	Item no.	Designation
0.11	10	6,600	3.2	19	140	2.400	80600310	PN 19 P

PN 28 P

The needle scaler with pistol grip, exhaust directed to the front and safety lever valve is particularly suitable for coatings and solid metal parts as the abrupt needle movements are designed for robust materials.

Contents:
1.5 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), spare needle set ENS-PN 28 P-140 mm.

Special features:
- Suitable needle scaler for the needle set with 28 needles.
- Low vibrations.
- Ideal for hard-to-reach areas or small surfaces.

Air consumption [m³/min]	Min. ø supply air hose inside [mm]	Frequency [strokes/min]	Needle diameter [mm]	Number of needles	Needle length [mm]	Net weight [kg]	Item no.	Designation
0.14	10	5,500	3.2	28	140	3.050	80600320	PN 28 P

Spare needle set for needle scalers

Spare needle set with variable number of needles and different lengths, suitable for needle scalers.

Special features:
- Other lengths are available on request.

Needle diameter [mm]	Number of needles	Needle length [mm]	Net weight [kg]	Item no.	Designation
3.2	18	127	0.146	98989901	ENS-PN 18 HV-127 mm
	19	140	0.168	98989902	ENS-PN 19 P-140 mm
	28	140	0.246	98989903	ENS-PN 28 P-140 mm

New item

MST 32 DV

Compressed-air marking pen with exhaust directed to the front, ring throttle version and very high stroke frequency. For applying markings and labels on metal, glass, plastics. Easy guidance thanks to slim design.

Contents:
2.5 m air supply hose with 1/4" male threaded connection and threaded quick coupling (STGI), TC engraving needle.

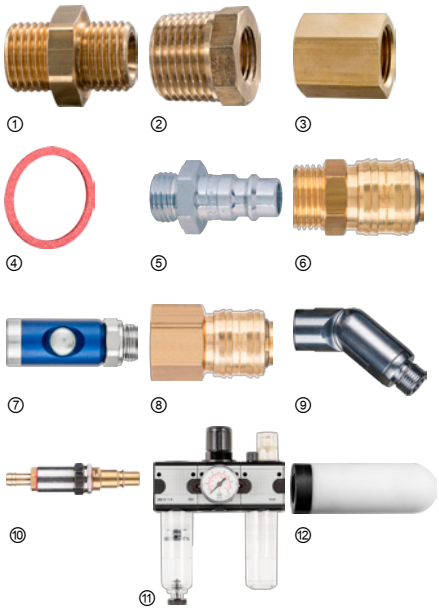
Special features:
- F type with fine engraving needle suitable for applying markings and labels on hardened tool steel.
- M type with medium engraving needle.
- G type with coarse engraving needle.

Frequency [strokes/min]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
32,000	0.03	0.02	4	0.152	80600130	MST 32 DV F
					80600140	MST 32 DV M
					80600150	MST 32 DV G

Replacement TC engraving needles for marking pens

Tungsten carbide engraving needles for marking pens. For applying markings and labels on metal, glass, plastics and on hardened tool steel.

Needle tip	Net weight [kg]	Item no.	Designation
F (fine)	0.003	98980364	HM-GN MST32 F
M (medium)	0.003	98980365	HM-GN MST32 M
G (coarse)	0.003	98980366	HM-GN MST32 G



Accessories for air grinders

PFERD TOOLS offers various accessories for air grinders.

Image	Net weight [kg]	Item no.	Designation
Double nipple			
①	0.019	80801145	DNA 1/4-1/4
	0.063	80801150	DNA 1/2-1/2
Reducing nipple			
②	0.008	80801163	RNI 1/2 x 1/4
Threaded nut			
③	0.076	80801154	GWI 1/2-1/2
Sealing ring			
④	0.001	90000509	DR 1/8"
		90000510	DR 1/4"
		90000512	DR 1/2"
Hose nozzles with male thread (steel version)			
	0.018	80801235	TGA 8 1/4 ST
	0.022	80801234	TGA 10 1/4 ST
	0.032	80801233	TGA 13 3/8 ST
Quick coupling with male thread			
⑤	0.105	80900004	STGA 1/2 NW12
	0.040	80900801	STGA 1/2-16/AC
Self-closing valve couplings with male thread			
⑥	0.062	80801065	VKA 1/4
	0.072	80801070	VKA 1/2
	0.313	80801066	VKA 1/2 NW12
Self-closing valve couplings with male thread with release button			
⑦	0.123	80801048	SVKA 1/4 DK
	0.150	80801049	SVKA 1/2 DK

Continued on next page

New item

Image	Net weight [kg]	Item no.	Designation
Self-closing valve couplings with female thread			
⑧	0.077	80801080	VKI 1/4
	0.083	80801085	VKI 1/2
Revolving nozzle			
⑨	0.074	80800040	DGT 1/4
	0.357	80800070	DGT 3/4
	0.130	80800060	DGT 3/8
	0.125	80800050	DGT 1/2
In-line fine filter			
⑩	0.117	80807045	SF 24 STG-IG 1/4
	0.098	80807055	SF 30 STG-IG 1/2
	0.125	80807060	SF 35 IG1/2-IG1/2
Frequency damper			
⑫	0.067	87200247	FD 47-13,5-29,6
	0.060	87200216	FD 47-8-28 ID
Maintenance unit			
⑪	2.302	80802010	ONG-A 1/4
	0.944	80803005	ONG-A 1/2

New item

RCK STG 10/800 control device

Control device that enables different handpieces to be actuated precisely. Achieves a maximum rotational speed of 80,000 RPM and keeps it stable during operation.

Contents:
Battery or power supply unit must be ordered separately.

Special features:
- Equipped with intelligent control electronics.
- Comes with a sturdy design.
- Can run on battery power or with a power supply unit.

Max. rotational speed [RPM]	Max. power consumption [watts]	Max. power output [watts]	Max. supply voltage [volts]	Net weight [kg]	Item no.	Designation
80,000	1,560	1,000	50.4 – 58.8	4.930	83001000	RCK STG 10/800

Control device RCK STG 10/800 in L-BOXX

Control device in L-BOXX – for convenient transport. Provides more protection for the control device in mobile use.

Contents:
With case (PFERD TOOLS L-BOXX 374 RCK STG) and control device (RCK STG 10/800).

Special features:
- Equipped with intelligent control electronics.
- Sturdy, dust-protected housing.
- Can run on battery power or with a power supply unit.

Max. rotational speed [RPM]	Max. power consumption [watts]	Max. power output [watts]	Max. supply voltage [volts]	Net weight [kg]	Item no.	Designation
80,000	1,560	1,000	50.4 – 58.8	8.792	83001001	RCK STG 10/800 L-BOXX

Control device RCK STG 10/800 with grip in L-BOXX

Control device with grip in L-BOXX for convenient transport. Provides more protection for the control device in mobile use. The grip and reducers ensure that the handpieces are securely fastened to the control device.

Contents:
With case (PFERD TOOLS L-BOXX 374 RCK STG WITH GRIP), control device (RCK STG 10/800) as well as grip and reducers (RCK GRIP STG KPL).

Special features:
- Equipped with intelligent control electronics.
- Sturdy, dust-protected housing.
- Can run on battery power or with a power supply unit.

Max. rotational speed [RPM]	Max. power consumption [watts]	Max. power output [watts]	Max. supply voltage [volts]	Net weight [kg]	Item no.	Designation
80,000	1,560	1,000	50.4 – 58.8	9.152	83001002	RCK STG 10/800 GR L-BOXX

New item

Straight handpiece RCK GS 2/800 SP

The RCK handpiece in the **200 W performance class** has a brushless motor with a very stable speed and improved ergonomics.

Contents:
1.8 m handpiece cable, 3 mm collet (collet group 17), 1x blank shank BSC 3 mm, 2 keys (1x MIM SPS DK D 7, 1x MIM ARS HA D 23.5 mm).

Special features:
- Slim and lightweight design as well as automatic speed limitation.
- Very high concentricity speed and very quiet.
- Start interlock without clamped tool.

Rotational speed range [RPM]	Power output [watts]	Max. voltage [volts]	Net weight [kg]	Item no.	Designation
80,000 – 40,000	180	58	0.330	83002001	RCK GS 2/800 SP

Straight handpiece RCK GS 1/700

The RCK handpiece in the **200 W performance class** has a brushless motor with a very stable speed and improved ergonomics.

Contents:
1.8 m handpiece cable, 3 mm collet (collet group 17), 2 keys (1x SPS VK 4 mm, 1x STS D 2.35 mm)

Special features:
- Straight handpiece with aluminium housing with a particularly slim and light design.
- Very high concentricity speed and very quiet.
- Low-maintenance thanks to brushless motor for delicate work.

Rotational speed range [RPM]	Power output [watts]	Max. voltage [volts]	Net weight [kg]	Item no.	Designation
70,000 – 35,000	120	58	0.095	83002006	RCK GS 1/700

Straight handpiece RCK GS 2/600 Z-SP

The RCK handpiece in the **200 W performance class** has a brushless motor with a very stable speed and improved ergonomics.

Contents:
1.8 m handpiece cable, 3 mm collet (collet group 17), 1x blank shank BSC 3 mm, 3 keys (1x MIM SPS DK D 7, 1x DM SW 10/10 mm, 1x BSC 2.35 mm).

Special features:
- Slim and lightweight design as well as automatic speed limitation.
- Very high concentricity speed and very quiet.
- Start interlock without clamped tool.

Rotational speed range [RPM]	Power output [watts]	Max. voltage [volts]	Net weight [kg]	Item no.	Designation
60,000 – 30,000	150	58	0.260	83002002	RCK GS 2/600 Z-SP

New item

Straight handpiece RCK GS 2/600 SP

The RCK handpiece in the **200 W performance class** has a brushless motor with a very stable speed and improved ergonomics.

Contents:
1.8 m handpiece cable, 3 mm collet (collet group 17), 1x blank shank BSC 3 mm, 2 keys (1x MIM SPS DK D 7, 1x MIM ARS HA D 23.5 mm).

Special features:
- Slim and lightweight design as well as automatic speed limitation.
- Very high concentricity speed and very quiet.
- Start interlock without clamped tool.

Rotational speed range [RPM]	Power output [watts]	Max. voltage [volts]	Net weight [kg]	Item no.	Designation
60,000 – 30,000	150	58	0.315	83002003	RCK GS 2/600 SP

Straight handpiece RCK GS 2/600

The RCK handpiece in the **200 W performance class** has a brushless motor with a very stable speed and improved ergonomics.

Contents:
1.8 m handpiece cable, 2 keys (1x DM SW 10/10 mm, 1x MIM DSTS SW 11x D 2.4 mm), 3 mm collet (collet group 19), 1x blank shank BSC 3 mm.

Special features:
- Slim and lightweight design as well as automatic speed limitation.
- Very high concentricity speed and very quiet.

Rotational speed range [RPM]	Power output [watts]	Max. voltage [volts]	Net weight [kg]	Item no.	Designation
60,000 – 30,000	150	58	0.393	83002004	RCK GS 2/600

Straight handpiece RCK GS 2/500 V-SP

The RCK handpiece in the **200 W performance class** has a brushless motor with a very stable speed and improved ergonomics.

Contents:
1.8 m handpiece cable, 3 mm collet (collet group 17), 1x blank shank BSC 3 mm, 2 keys (1x MIM ARS HA D 23.5 mm, 1x MIM SPS DK D 7).

Special features:
- Slim and lightweight design as well as automatic speed limitation.
- Very high concentricity speed and very quiet.
- Start interlock without clamped tool.

Rotational speed range [RPM]	Power output [watts]	Max. voltage [volts]	Net weight [kg]	Item no.	Designation
50,000 – 25,000	150	58	0.325	83002005	RCK GS 2/500 V-SP

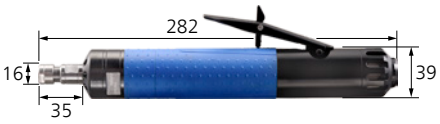
Straight handpiece RCK GS 4/400

The RCK handpiece in the **400 W performance class** has a brushless motor with a very stable speed and improved ergonomics.

Contents:
2 keys (2x EM SW 14 mm), 6 mm collet (collet group 21), 2 m handpiece cable (RCK AK 2 m).

Special features:
- Unique, sturdy design for particularly quiet working.
- Low-maintenance thanks to brushless motor.

Rotational speed range [RPM]	Power output [watts]	Max. voltage [volts]	Net weight [kg]	Item no.	Designation
40,000 – 20,000	380	58	0.885	83004001	RCK GS 4/400



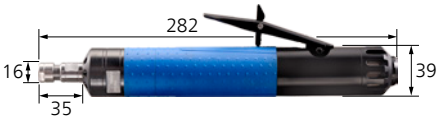
Straight handpiece RCK GS 4/100

The RCK handpiece in the **400 W performance class** has a brushless motor with a very stable speed and improved ergonomics.

Contents:
2 keys (2x EM SW 14 mm), 6 mm collet (collet group 21), 2 m handpiece cable (RCK AK 2 m).

Special features:
- Unique, sturdy design for particularly quiet working.
- Low-maintenance thanks to brushless motor.

Rotational speed range [RPM]	Power output [watts]	Max. voltage [volts]	Net weight [kg]	Item no.	Designation
10,000 – 5,000	380	58	0.877	83004002	RCK GS 4/100



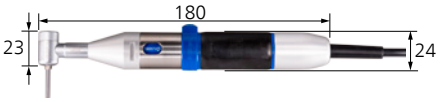
Straight handpiece RCK GS 4/50

The RCK handpiece in the **400 W performance class** has a brushless motor with a very stable speed and improved ergonomics.

Contents:
2 keys (2x EM SW 14 mm), 6 mm collet (collet group 21), 2 m handpiece cable (RCK AK 2 m).

Special features:
- Unique, sturdy design for particularly quiet working.
- Low-maintenance thanks to brushless motor.

Rotational speed range [RPM]	Power output [watts]	Max. voltage [volts]	Net weight [kg]	Item no.	Designation
5,000 – 2,500	380	58	0.877	83004003	RCK GS 4/50



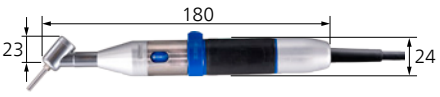
Angle handpiece RCK WS 1/300 90°

The RCK handpiece in the **200 W performance class** has a brushless motor with a very stable speed and improved ergonomics.

Contents:
1.8 m handpiece cable, 3 mm collet (collet group 18), 2 keys (1x MIM ARH, 1x DM SW 4/4 mm), 1x blank shank BSC 3 mm.

Special features:
- Slim and lightweight design as well as automatic speed limitation.
- Very high concentricity speed and very quiet.

Rotational speed range [RPM]	Power output [watts]	Max. voltage [volts]	Net weight [kg]	Item no.	Designation
30,000 – 15,000	120	58	0.245	83003001	RCK WS 1/300 90°



Angle handpiece RCK WS 1/300 45°

The RCK handpiece in the **200 W performance class** has a brushless motor with a very stable speed and improved ergonomics.

Contents:
1.8 m handpiece cable, 3 mm collet (collet group 18), 2 keys (1x MIM ARH, 1x DM SW 4/4 mm), 1x blank shank BSC 3 mm.

Special features:
- Slim and lightweight design as well as automatic speed limitation.
- Very high concentricity speed and very quiet.

Rotational speed range [RPM]	Power output [watts]	Max. voltage [volts]	Net weight [kg]	Item no.	Designation
30,000 – 15,000	120	58	0.243	83003002	RCK WS 1/300 45°

New item

Angle handpiece RCK WS 4/200 90°

The RCK handpiece in the **400 W performance class** has a brushless motor with a very stable speed and improved ergonomics.

Contents:
2 m handpiece cable (RCK AK 2 m), 6 mm collet (collet group 6), 2 keys (1x EM SW 11 mm, 1x EM SW 14 mm).

Special features:
- High-performance angle handpiece with an innovative, robust design for particularly quiet working.
- The 90° angle head is ideally suited to working in hard-to-reach areas.
- Low-maintenance thanks to brushless motor.

Rotational speed range [RPM]	Power output [watts]	Max. voltage [volts]	Net weight [kg]	Item no.	Designation
30,000 – 15,000	380	58	1.171	83004011	RCK WS 4/200 90°

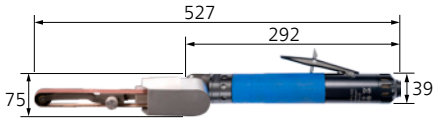
Angle handpiece RCK WS 4/100 90°

The RCK handpiece in the **400 W performance class** has a brushless motor with a very stable speed and improved ergonomics.

Contents:
2 m handpiece cable (RCK AK 2 m), 6 mm collet (collet group 6), 2 keys (1x EM SW 11 mm, 1x EM SW 14 mm).

Special features:
- High-performance angle handpiece with an innovative, robust design for particularly quiet working.
- The 90° angle head is ideally suited to working in hard-to-reach areas.
- Low-maintenance thanks to brushless motor.

Rotational speed range [RPM]	Power output [watts]	Max. voltage [volts]	Net weight [kg]	Item no.	Designation
10,000 – 5,000	380	58	1.178	83004012	RCK WS 4/100 90°



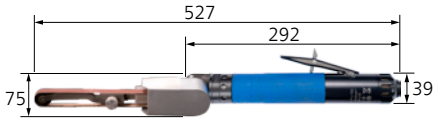
Belt grinder handpiece RCK B 4/200

The RCK belt sander handpiece in the **400 watt performance class** with a robust design for a **belt length of 520 mm (*610 mm) x belt width 3–20 mm**. Low maintenance thanks to brushless motor.

Contents:
2 m handpiece cable, 2 keys (1x SKS SW 3 mm, 1x SKS SW 4 mm), protective cover.

Special features:
- Suitable for belt grinder attachment arms from group 2.
- *The BSAD 41/36 x 610 belt grinding adapter achieves a belt length of 610 mm.

Belt speed [m/s]	Power output [watts]	Suitable belt width [mm]	Suitable belt length [mm]	Net weight [kg]	Item no.	Designation
12-24.1	380	3-16	520	1.365	83004021	RCK B 4/200



Belt grinder handpiece RCK B 4/100

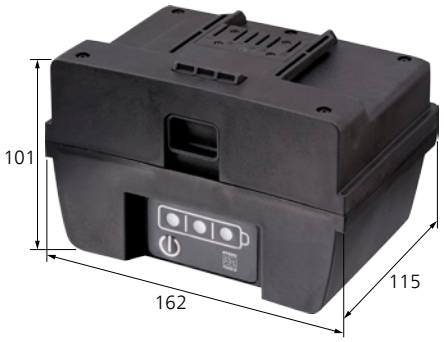
The RCK belt sander handpiece in the **400 watt performance class** with a robust design for a **belt length of 520 mm (*610 mm) x belt width 3–20 mm**. Low maintenance thanks to brushless motor.

Contents:
2 m handpiece cable, 2 keys (1x SKS SW 3 mm, 1x SKS SW 4 mm), protective cover.

Special features:
- Suitable for belt grinder attachment arms from group 2.
- *The BSAD 41/36 x 610 belt grinding adapter achieves a belt length of 610 mm.

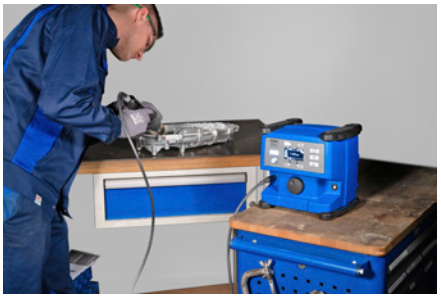
Belt speed [m/s]	Power output [watts]	Suitable belt width [mm]	Suitable belt length [mm]	Net weight [kg]	Item no.	Designation
6-12	380	3-16	520	1.358	83004022	RCK B 4/100

New item



High-performance rechargeable battery RCK BAT

High-performance rechargeable battery with 50.4 V nominal voltage.



Special features:
- Work safely with safety extra-low voltage.
- Overload protection.

Cell type	Nominal voltage [volts]	Nominal capacity [Ah]	Energy [Wh]	Net weight [kg]	Item no.	Designation
Lithium-ion	50.4	5.6	282.24	1.950	98990001	RCK BAT

Rapid charger RCK SL

Rapid charger with universal IEC power connector.

Contents:
2 m power cable with mains connector.

Input voltage [VAC]	Frequency [Hz]	Max. power consumption [watts]	Max. charging current [A]	Net weight [kg]	Item no.	Designation
100 – 240	50 – 60	300	4.6	1.219	98990010	RCK SL

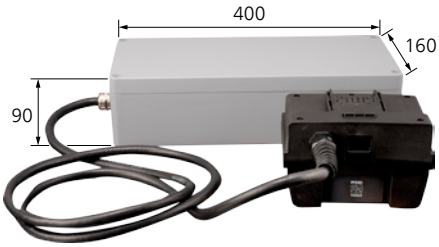
Rapid charger RCK SL in L-BOXX

The RCK rapid charger in the L-BOXX – convenient transport and reliable protection while on the go. Integrated mounting for RCK-BAT.

Contents:
With case (PFERD TOOLS L-BOXX 136 RCK SL + BAT) and rapid charger with EU plug (RCK SL).

Input voltage [VAC]	Frequency [Hz]	Max. power consumption [watts]	Max. charging current [A]	Net weight [kg]	Item no.	Designation
100 – 240	50 – 60	300	4.6	3.935	98990013	RCK SL L-BOXX

New item



Electronic power supply unit RCK NT

Electronic power supply unit with universal IEC power connector and dust-protected housing.

Contents:
2 m power cable with mains connector.

Input voltage [V/V]	Nominal current [A/A]	Frequency [Hz]	Nominal voltage [volts]	Net weight [kg]	Item no.	Designation
120 / 240	9 / 6.5	50 – 60	57.5	5.610	98990020	RCK NT

Electronic power supply unit RCK NT in L-BOXX

The RCK power supply unit in the L-BOXX enables convenient transport and optimum protection while on the go.

Contents:
With case (PFERD TOOLS L-BOXX 238 RCK NT) and power supply unit with EU plug (RCK NT).

Input voltage [V/V]	Nominal current [A/A]	Frequency [Hz]	Nominal voltage [volts]	Net weight [kg]	Item no.	Designation
120 / 240	9 / 6.5	50 – 60	57.5	8.947	98990023	RCK NT L-BOXX

Foot switch RCK FU-R

Vario foot switch which can be connected on the rear of the RCK control device and can be used to control the rotational speed of the RCK handpieces.

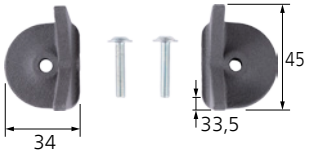
Net weight [kg]	Item no.	Designation
0.845	98990030	RCK FU-R

Foot switch RCK FU-E/A

On/off foot switch which can be connected on the rear of the RCK control device and can be used to switch the RCK handpieces on and off.

Net weight [kg]	Item no.	Designation
0.310	98990031	RCK FU-E/A

New item

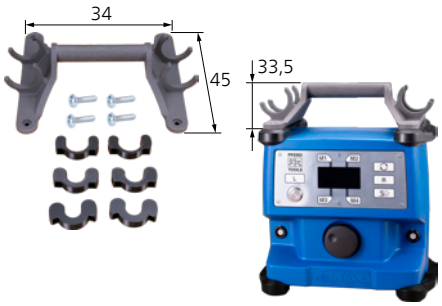


Handpiece support set RCK HA A-SET

The RCK handpiece support set makes it possible to keep the handpieces tidy and secure on the control device.

Contents:
2x pan head screws M5 x 251, key (SKS SW 3 mm)

Net weight [kg]	Item no.	Designation
0.030	98991074	RCK HA A-SET



Grip and reducers RCK GR STG KPL

The grip and the reducers are fastened to the control device. The set consists of an RCK grip which makes it easier to transport the RCK control device, plus two handpiece reducers for secure placement two each with a diameter of 19, 24 and 30 mm.

Contents:
2x handpiece holder reducer RCK D19,
2x handpiece holder reducer RCK D24,
2x handpiece holder reducer RCK D30,
4x pan head screw M5 x 25, key (SKS SW 3 mm)

Special features:
- Ensure that the handpieces are securely fastened to the control device.

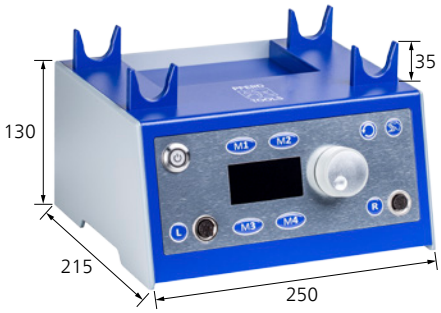
Net weight [kg]	Item no.	Designation
0.280	98991100	RCK GR STG KPL

Connecting cable RCK AK

RCK connecting cable measuring 1.5 m, 2 m, 3 m and 5 m for the use of RCK handpieces. Only suitable for **RCK handpieces > 300 watts**.

Length [m]	Net weight [kg]	Item no.	Designation
1.5	0.196	98990040	RCK AK 1.5 m
2	0.246	98990041	RCK AK 2 m
3	0.346	98990042	RCK AK 3 m
5	0.546	98990043	RCK AK 5 m

New item



MIM STG3S 3/800

Micro motor control device with high power stability for steplessly controlling the rotational speed of micro motor handpieces.The rotational speed control can be provided by hand or via foot switch.

Contents:
2 m power cable with mains connector,
2 handpiece supports.

Special features:
- Max. 80,000 RPM clockwise rotation, max. 30,000 RPM anti-clockwise rotation.
- 2 switchable connection sockets for micro motor handpieces.
- 4 free rotational speed storage spaces per connected handpiece.

For micro motor handpieces [RPM]	Power output [watts]	Voltage [volts] 50–60 Hz	Output voltage [volts]	Net weight [kg]	Item no.	Designation
80,000 – 1,000	350	230	50	2.980	83000025	MIM STG3S 3/800

MIM STG2S 3/600

Micro motor control device with high power stability for controlling the rotational speed of micro motor handpieces. Stepless rotational speed control can be provided by hand or via foot switch.

Contents:
2 m power cable with mains connector,
2 handpiece supports.

Special features:
- Max. 60,000 RPM clockwise rotation, max. 30,000 RPM anti-clockwise rotation.

For micro motor handpieces [RPM]	Power output [watts]	Voltage [volts] 50–60 Hz	Output voltage [volts]	Net weight [kg]	Item no.	Designation
60,000 – 1,000	260	230	36	2.338	83000020	MIM STG2S 3/600

Micro motor handpieces

Micro motor handpiece MIM HAS 3/800 SP3

Micro motor handpiece with high power stability, very high rotation accuracy and brushless motor.

Contents:
1.8 m handpiece cable, 3 mm collet (collet group 17), 1x blank shank BSC 3 mm, 2 keys (1x MIM ARS HA D 23.5 mm, 1x MIM SPS DK D 7).

Special features:
- Automatic speed limitation.
- Start interlock without clamped tool.
- Extremely energy-efficient and quiet in comparison to air grinders.

Rotational speed range [RPM]	Power consumption [watts]	Power output [watts]	Nominal voltage [volts]	Net weight [kg]	Item no.	Designation
Compatible with STG3S						
80,000 – 1,000	350	180	50	0.330	83000120	MIM HAS 3/800 SP3

Micro motor handpiece MIM HAS 2/600 SP3

Micro motor handpiece with high power stability, very high rotation accuracy and brushless motor.

Contents:
1.8 m handpiece cable, 3 mm collet (collet group 17), 1x blank shank BSC 3 mm, 3 keys (1x MIM SPS DK 7, 1x DM SW 10/10 mm, 1x BSC 2.35 mm)

Special features:
- Automatic speed limitation.
- Start interlock without clamped tool.
- Extremely energy-efficient and quiet in comparison to air grinders.

Rotational speed range [RPM]	Power consumption [watts]	Power output [watts]	Nominal voltage [volts]	Net weight [kg]	Item no.	Designation
Compatible with STG3S and STG2S						
60,000 – 1,000	260	150	36 / 50	0.260	83000102	MIM HAS 2/600 SP3

Micro motor handpiece MIM HAS 3/600 SP3

Micro motor handpiece with high power stability, very high rotation accuracy and brushless motor.

Contents:
1.8 m handpiece cable, 3 mm collet (collet group 17), 1x blank shank BSC 3 mm, 2 keys (1x MIM ARS HA D 23.5 mm, 1x MIM SPS DK D 7).

Special features:
- Automatic speed limitation.
- Start interlock without clamped tool.
- Extremely energy-efficient and quiet in comparison to air grinders.

Rotational speed range [RPM]	Power output [watts]	Nominal voltage [volts]	Net weight [kg]	Item no.	Designation
60,000 – 1,000	150	36 / 50	0.315	83000103	MIM HAS 3/600 SP3

Micro motor handpiece MIM HAS 3/600 S3

Micro motor handpiece with high power stability, very high rotation accuracy and brushless motor.

Contents:
1.8 m handpiece cable, 2 keys (1x DM SW 10/10 mm, 1x MIM DSTS SW 11x D 2.4 mm), 3 mm collet (collet group 19), 1x blank shank BSC 3 mm.

Special features:
- Automatic speed limitation.
- Extremely energy-efficient and quiet in comparison to air grinders.

Rotational speed range [RPM]	Power consumption [watts]	Power output [watts]	Nominal voltage [volts]	Net weight [kg]	Item no.	Designation
60,000 – 1,000	260	150	36 / 50	0.393	83000110	MIM HAS 3/600 S3

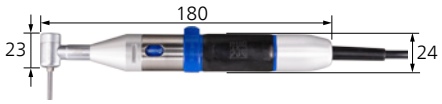
Micro motor handpiece MIM HAS 3/500 VS-SP3

Micro motor handpiece with high power stability, very high rotation accuracy and brushless motor.

Contents:
1.8 m handpiece cable, 3 mm collet (collet group 17), 1x blank shank BSC 3 mm, 2 keys (1x MIM ARS HA D 23.5 mm, 1x MIM SPS DK D 7).

Special features:
- Automatic speed limitation.
- Start interlock without clamped tool.
- Extremely energy-efficient and quiet in comparison to air grinders.

Rotational speed range [RPM]	Power consumption [watts]	Power output [watts]	Nominal voltage [volts]	Net weight [kg]	Item no.	Designation
50,000 – 1,000	260	150	36 / 50	0.325	83000105	MIM HAS 3/500 VS-SP3



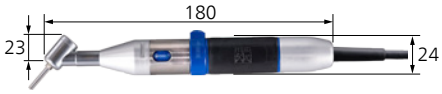
Micro motor handpiece MIM WZS 3/300 90° S3

Micro motor handpiece with high power stability, very high rotation accuracy and brushless motor.

Contents:
1.8 m handpiece cable, 3 mm collet (collet group 18), 1x blank shank BSC 3 mm, 2 keys (1x MIM ARH, 1x DM SW 4/4 mm).

Special features:
- Automatic speed limitation.
- Extremely energy-efficient and quiet in comparison to air grinders.

Rotational speed range [RPM]	Power consumption [watts]	Power output [watts]	Nominal voltage [volts]	Net weight [kg]	Item no.	Designation
30,000 – 1,000	260	120	36 / 50	0.238	83000150	MIM WZS 3/300 90° S3



Micro motor handpiece MIM WZS 3/300 45° S3

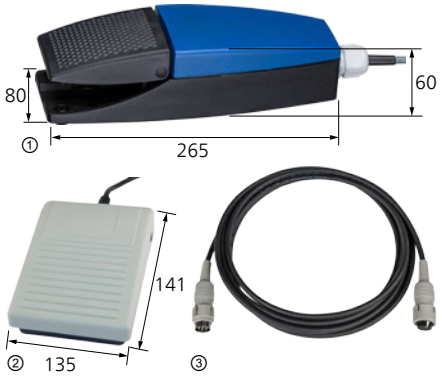
Micro motor handpiece with high power stability, very high rotation accuracy and brushless motor.

Contents:
1.8 m handpiece cable, 3 mm collet (collet group 18), 1x blank shank BSC 3 mm, 2 keys (1x MIM ARH, 1x DM SW 4/4 mm).

Special features:
- Automatic speed limitation.
- Extremely energy-efficient and quiet in comparison to air grinders.

Rotational speed range [RPM]	Power consumption [watts]	Power output [watts]	Nominal voltage [volts]	Net weight [kg]	Item no.	Designation
30,000 – 1,000	260	120	36 / 50	0.185	83000160	MIM WZS 3/300 45° S3

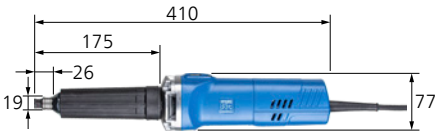
Accessories for micro motor systems



Accessories for micro motor systems

PFERD TOOLS offers a Vario micro motor foot switch for stepless rotational speed control, a micro motor foot switch for switching on and off, and a 3 m micro motor extension cable for handpieces as accessories for micro motor systems.

Image	Net weight [kg]	Item no.	Designation
Vario foot switch MIM FU-R			
①	0.845	83000070	MIM FU-R
On/off foot switch MIM FU-E/A			
②	0.310	83000080	MIM FU-E/A
Extension cable MIM VLK HAS/WZS 3 m			
③	0.152	90014007	MIM VLK HAS/WZS 3 m



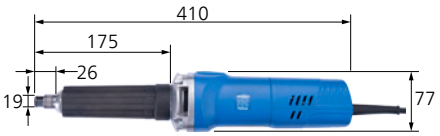
EGER 8/280

Electric straight grinder which meets the highest technical standards and incorporates the latest ergonomic findings and requirements. The digital electronics enable a constant rotational speed to be maintained.

Contents:
4 m power cable with mains connector, 6 mm collet (collet group 22), 2 keys (1x EM SW 13 mm, 1x EM SW 17 mm).

Special features:
- Stepless rotational speed regulation.
- Overload protection.
- Smooth start-up to protect people, tools and the drive.

Rotational speed range [RPM]	Power consumption [watts]	Power output [watts]	Voltage [volts] 50–60 Hz	Net weight [kg]	Item no.	Designation
28,000 – 8,500	750	410	230	1.800	83108280	EGER 8/280



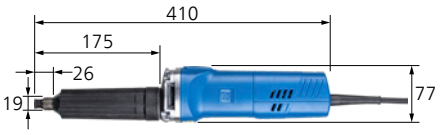
EGER 8/280 E

Electric straight grinder with elastic bearing; meets the highest technical standards and incorporates the latest ergonomic findings and requirements. The digital electronics enable a constant rotational speed to be maintained.

Contents:
4 m power cable with mains connector, 6 mm collet (collet group 22), 2 keys (1x EM SW 13 mm, 1x EM SW 17 mm).

Special features:
- Stepless rotational speed regulation.
- Overload protection.
- Smooth start-up to protect people, tools and the drive.

Rotational speed range [RPM]	Power consumption [watts]	Power output [watts]	Voltage [volts] 50–60 Hz	Net weight [kg]	Item no.	Designation
28,000 – 8,500	750	410	230	1.800	83108290	EGER 8/280 E



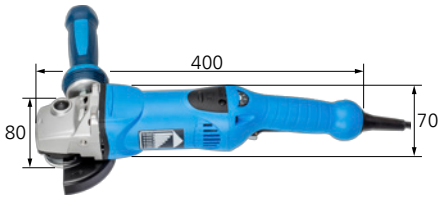
EGER 8/90

Electric straight grinder which meets the highest technical standards and incorporates the latest ergonomic findings and requirements. The digital electronics enable a constant rotational speed to be maintained.

Contents:
4 m power cable with mains connector, 6 mm collet (collet group 22), 2 keys (1x EM SW 13 mm, 1x EM SW 17 mm).

Special features:
- Stepless rotational speed regulation.
- Overload protection.
- Smooth start-up to protect people, tools and the drive.

Rotational speed range [RPM]	Power consumption [watts]	Power output [watts]	Voltage [volts] 50–60 Hz	Net weight [kg]	Item no.	Designation
9,000 – 2,500	710	410	230	1.800	83108090	EGER 8/90



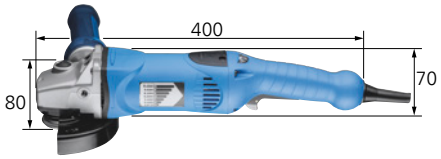
UWER 18/120 SI

Electric angle grinder with M14 drive spindle thread and tool mounting hole dia. 22.23 mm. Max. tool diameter up to 115 mm.

Contents:
4 m power cable with mains connector, 1 clamping flange (item no. 98970043), 1 quick-mounting nut (item no. 98970042), 1 surface guard dia. 115 mm, anti-vibration handle.

Special features:
- With robust design for heavy-duty use, spindle lock pin, stepless rotational speed control and digital electronics for a constant rotational speed.
- With overload protection with anti-kick-back function and lateral anti-vibration handle.
- Smooth start-up to protect people, tools and the drive and lockable on/off switch.

Rotational speed range [RPM]	Power consumption [watts]	Power output [watts]	Voltage [volts] 50–60 Hz	Net weight [kg]	Item no.	Designation
11,500 – 2,800	1,750	1,150	230	2.800	*83500200*	UWER 18/120 SI



UWER 18/110 SI

Electric angle grinder with M14 drive spindle thread and tool mounting hole dia. 22.23 mm. Max. tool diameter up to 125 mm.

Contents:
4 m power cable with mains connector, 1 clamping flange (item no. 98970043), 1 quick-mounting nut (item no. 98970042), 1 surface guard dia. 125 mm, anti-vibration handle.

Special features:
- With robust design for heavy-duty use, spindle lock pin, stepless rotational speed control and digital electronics for a constant rotational speed.
- With overload protection with anti-kick-back function and lateral anti-vibration handle.
- Smooth start-up to protect people, tools and the drive and lockable on/off switch.

Rotational speed range [RPM]	Power consumption [watts]	Power output [watts]	Voltage [volts] 50–60 Hz	Net weight [kg]	Item no.	Designation
11,000 – 2,700	1,750	1,150	230	2.800	*83500250*	UWER 18/110 SI

①

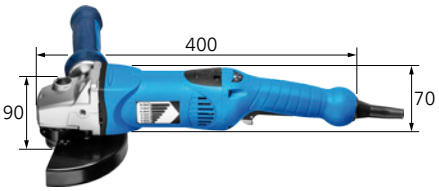
②

Guards

PFERD TOOLS offers various guards for manual cutting (HT) and for surface grinding (FL).

Image	Diameter [mm]	Net weight [kg]	Item no.	Designation
①	115	0.325	98970071	H45-115 HT-SV
	125	0.351	84108000	H45-125 HT-SV
②	115	0.160	98970072	H45-115 FL-SV
	125	0.164	84108010	H45-125 FL-SV

Discontinued product



UWER 18/95 SI

Electric angle grinder with M14 drive spindle thread and tool mounting hole dia. 22.23 mm. Max. **tool diameter up to 150 mm**.

Contents:
4 m power cable with mains connector, 1 clamping flange (item no. 98970043), 1 quick-mounting nut (item no. 98970042), 1 surface guard dia. 150 mm, anti-vibration handle.

Special features:
- With robust design for heavy-duty use, spindle lock pin, stepless rotational speed control and digital electronics for a constant rotational speed.
- With overload protection with anti-kick-back function and lateral anti-vibration handle.
- Smooth start-up to protect people, tools and the drive and lockable on/off switch.

Rotational speed range [RPM]	Power consumption [watts]	Power output [watts]	Voltage [volts] 50–60 Hz	Net weight [kg]	Item no.	Designation
9,500 – 2,300	1,750	1,150	230	3.000	*83500300*	UWER 18/95 SI

① ②

Guards

PFERD TOOLS offers various guards for manual cutting (HT) and for surface grinding (FL).

Image	Diameter [mm]	Net weight [kg]	Item no.	Designation
①	150	0.491	84108030	H51-150 HT-SV
②	150	0.450	84108020	H51-150 FL-SV

EWER 17/75

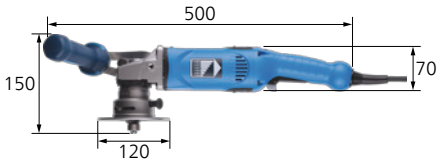
Electric angle grinder with M14 drive spindle thread and tool mounting hole dia. 22.23 mm. Max. **tool diameter up to 125 mm**.

Contents:
4 m power cable with mains connector, 1 key (STL SW 35 x 5.3 mm), 1 clamping flange (item no. 98960180), 1 quick-mounting nut (item no. 98960181), 1 surface guard dia. 125 mm, anti-vibration handle.

Special features:
- With spindle lock pin, stepless rotational speed control and digital electronics for a constant rotational speed.
- Adjusted rotational speed range for tools with low cutting speeds.
- With smooth start-up to protect people, tools and the drive as well as overload protection.

Rotational speed range [RPM]	Power consumption [watts]	Power output [watts]	Voltage [volts] 50–60 Hz	Net weight [kg]	Item no.	Designation
7,500 – 2,700	1,700	1,000	230	2.810	*83500350*	EWER 17/75

Discontinued product



UWER 18/110 EF

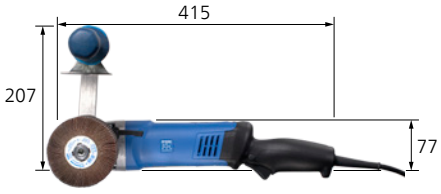
Electric grinder which meets the highest technical standards and incorporates the latest ergonomic findings and requirements. With M14 drive spindle thread. Max. chamfer height of 6 mm.

Contents:
4 m power cable with mains connector, 3 keys (1x SKS SW 5 mm, 1x HS 40-42, 1x SDR TX 15K), anti-vibration handle.

Special features:
- With spindle lock pin, stepless rotational speed control and digital electronics for a constant rotational speed.
- Smooth start-up to protect people, tools and the drive and lockable on/off switch.

Rotational speed range [RPM]	Power consumption [watts]	Power output [watts]	Voltage [volts] 50–60 Hz	Net weight [kg]	Item no.	Designation
Incl. cutting insert holder						
11,000 – 2,750	1,750	1,150	230	7.360	*83500980*	EDGE FINISH UWER 18/110 EF-R3/45° TK
					83500990	EDGE FINISH UWER 18/110 EF-30° TK
Excl. cutting insert holder						
11,000 – 2,750	1,750	1,150	230	3.640	*83501000*	EDGE FINISH UWER 18/110 EF

Burnishing machine



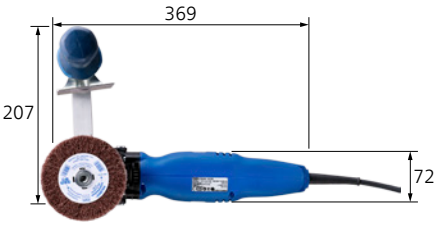
ESER 17/75

Electric burnishing machine with two keyways for increased power transmission on drum tools. With stepless rotational speed control and drive spindle with CD-R mounting for felt discs diameter 50 mm to protect the tool. With **19 x 100 mm tool mounting [dia. x width].**

Contents:
4 m power cable with mains connector, hand guard, anti-vibration handle, detachable drive spindle.

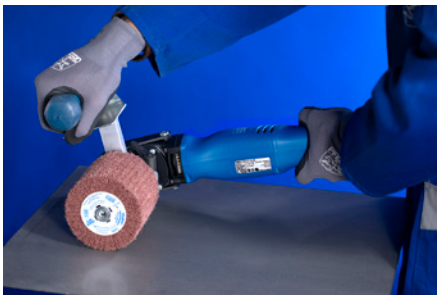
Special features:
- With spindle lock pin, stepless rotational speed control and digital electronics for a constant rotational speed.
- M14 drive spindle for mounting drum tools with female thread.
- With smooth start-up to protect people, tools and the drive as well as overload protection.

Rotational speed range [RPM]	Power consumption [watts]	Power output [watts]	Voltage [volts] 50–60 Hz	Net weight [kg]	Item no.	Designation
7,500 – 2,700	1,700	1,000	230	3.065	*83300260*	ESER 17/75



ESER 12/25

Low-speed electric burnishing machine with high torque and stepless rotational speed control. Has a drive spindle with CD-R mounting for felt discs diameter 50 mm to protect the tool. With **19 x 100 mm tool mounting [dia. x width].**



Contents:
4 m power cable with mains connector, hand guard, anti-vibration handle, detachable drive spindle.

Special features:
- With spindle lock pin and digital electronics for a constant rotational speed as well as two keyways for increased power transmission on drum tools.
- M14 drive spindle for mounting drum tools with female thread.
- With smooth start-up to protect people, tools and the drive as well as overload protection.

Rotational speed range [RPM]	Power consumption [watts]	Power output [watts]	Voltage [volts] 50–60 Hz	Net weight [kg]	Item no.	Designation
2,500 – 900	1,200	750	230	3.340	*83300270*	ESER 12/25

Belt grinders and belt arms

EBER 8/280

Electric belt grinder with a **belt length of 520 mm (*610 mm) x width 3 – 20 mm**. The belt arm can be changed without a key. With stepless rotational speed control.

Contents:
4 m power cable with mains connector, 1 belt arm BSVA 9/24 x 520 (belt grinder attachment arm group 4), protective cover SDVH.

Special features:
- *Possible with an **EBSA 610 adapter.**
- Digital electronics for constant rotational speed and overload protection.
- Smooth start-up to protect people, tools and the drive.

Belt speed [m/s]	Power consumption [watts]	Power output [watts]	Voltage [volts] 50–60 Hz	Net weight [kg]	Item no.	Designation
12 – 32	800	550	230	2.100	83208280	EBER 8/280

Adapter for belt grinder attachment arm group 4

Enables the use of belts with a **belt length of 610 mm and a belt width of 3 – 20 mm**.

Suitable belt length [mm]	Net weight [kg]	Item no.	Designation
610	0.075	84200700	EBSA 610

Protective cover for EBER 8/280

PFERD TOOLS offers protective covers for PFERD TOOLS belt grinders.

Net weight [kg]	Item no.	Designation
0.051	98960081	SDVH

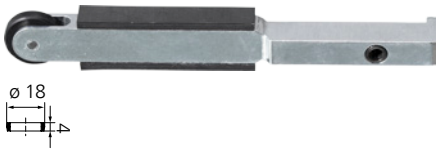
Discontinued product

Belt grinder attachment arm BSVA 9/24

Belt grinder attachment arm in robust design allowing easy, quick belt replacement due to spring clamping. The belt grinder attachment can be pivoted on the respective drive system or handpiece and therefore allows flexible adaptation to each individual work situation.

Special features:
- Suitable for universal use.
- Extremely slim fixing lugs on the facing roller.

Width x roll dia. [mm]	Suitable belt width [mm]	Suitable belt length [mm]	Net weight [kg]	Item no.	Designation
9 x 24	3, 6, 9, 12, 16	520, 610	0.073	84200701	BSVA 9/24x520

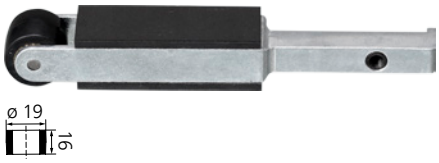


Belt grinder attachment arm BSVA 4/18

Belt grinder attachment arm in robust design allowing easy, quick belt replacement due to spring clamping. The belt grinder attachment can be pivoted on the respective drive system or handpiece and therefore allows flexible adaptation to each individual work situation.

Special features:
- Suitable for surface work.
- Use of the full roller width.
- Extremely slim fixing lugs on the facing roller.

Width x roll dia. [mm]	Suitable belt width [mm]	Suitable belt length [mm]	Net weight [kg]	Item no.	Designation
4 x 18	3, 6, 9	520, 610	0.060	84200702	BSVA 4/18x520



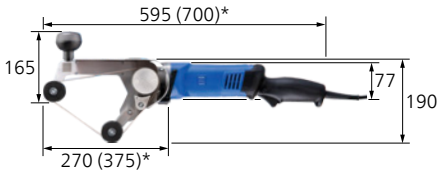
Belt grinder attachment arm BSVA 16/19

Belt grinder attachment arm in robust design allowing easy, quick belt replacement due to spring clamping. The belt grinder attachment can be pivoted on the respective drive system or handpiece and therefore allows flexible adaptation to each individual work situation.

Special features:
- Suitable for surface work.
- Use of the full roller width.
- Extremely slim fixing lugs on the facing roller.

Width x roll dia. [mm]	Suitable belt width [mm]	Suitable belt length [mm]	Net weight [kg]	Item no.	Designation
16 x 19	12, 16	520, 610	0.100	84200703	BSVA 16/19x520

Pipe belt grinder



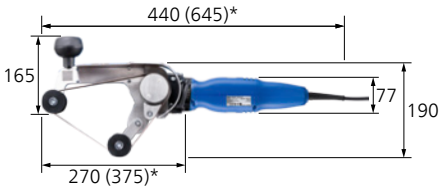
EBER 17/75 R

Electric pipe belt grinder with a **belt length of 610 – 820 mm x width 12 – 40 mm**. The lockable guide roller ensures greater contact pressure or a large surface contact angle.

Contents:
4 m power cable with mains connector, 1 key (SKHS SW 5 mm), 4 rolls.

Special features:
- With spindle lock pin, overload protection, stepless rotational speed control and digital electronics for a constant rotational speed.
- With telescopic arm for using different belt lengths and fixed side plates to protect the workpiece.
- Smooth start-up to protect people, tools and the drive.

Belt speed [m/s]	Power consumption [watts]	Power output [watts]	Voltage [volts] 50–60 Hz	Net weight [kg]	Item no.	Designation
8.2 – 22.8	1,700	1,000	230	4.027	*83200250*	EBER 17/75 R



EBER 12/25 R

Low-speed electric pipe belt grinder with a **belt length of 610 – 820 mm x width 12 – 40 mm**. With stepless rotational speed control and lockable guide roller for greater contact pressure or a large surface contact angle.

Contents:
4 m power cable with mains connector, 1 key (SKHS SW 5 mm), 4 rolls.

Special features:
- With spindle lock pin and digital electronics for a constant rotational speed.
- Fixed side plates on the rolls to protect the workpiece.
- With smooth start-up to protect people, tools and the drive as well as overload protection.

Belt speed [m/s]	Power consumption [watts]	Power output [watts]	Voltage [volts] 50–60 Hz	Net weight [kg]	Item no.	Designation
2.7 – 7.6	1,200	750	230	4.212	*83200260*	EBER 12/25 R

Discontinued product

Drive systems with DIN 10/DIN 15
General information

How to find the matching flexible shaft to your drive

Here you will find a selection of flexible shafts for the individual drives in line with the explanation below.

Flexible shafts and handpieces/attachments must always be selected according to the required rotational speed and power output. Maximum cost-effectiveness is achieved through the combination of a high-performance tool and an optimal drive.

① **Drive**
Alternative drives with DIN 10 connection (exceptions: DIN 15).

② **Flexible shaft (BW)**
Possible flexible shafts.

③ **Rotational speed [RPM]**
Rotational speed range of the drive system.

④ **Rotational speed range** for flexible shafts and handpieces

⑤ **Connection**
Drive-side connection DIN 10 / DIN 15 and handpiece-side connections (G16 to G28 and DPF, SRF).

⑥ **Suitable flexible shaft**
● ideally suitable
○ suitable
– unsuitable

① Drive motor ▶		EMER 8/280 BW	EMER 8/90 BW	RUER 8/180 SI	MMEW 11/120	MEW 18/240 ME 22/240	MEW 18/150 ME 22/150	MME 40/150 DIN 15
③ Rotational speed range [RPM] ▶		28,000–8,500	9,000–2,500	18,000–500	12,000–800	24,000–100	15,000–100	15,000–100
② Flexible shafts ▼	④ Drive [RPM] ▼							
BW 4 DIN 10/G16	40,000– 15,000	⑥ ○	–	○	–	○	○	–
BW 4 PST-T DIN 10 ⑤	7,650– 1,500	–	●	●	●	○	○	–
BW 6 DIN 10/G16	25,000– 11,000	●	–	●	○	●	○	–
BW 6 Z DIN 10/DPF BW 6 Z DIN 10/SRF	18,000– 9,000	○	–	●	○	○	○	–
BW 7 DIN 10/G22	25,000– 11,000	●	–	○	○	●	○	–
BW 7 PST-T DIN 10	4,250– 1,500	–	○	○	●	○	○	–
BW 10 SE 11 DIN 10/G28	18,000– 750	○	○	–	○	●	●	–
BW 10 SE 11 DIN 15/G28	18,000– 750	–	–	–	–	–	–	●
BW 12 DIN 10/G28	12,000– 850	–	–	–	–	●	●	–
BW 12 DIN 15/G28	12,000– 850	–	–	–	–	–	–	●
FS-BW 7 DIN 10/G22	25,000– 11,000	●	–	○	○	●	○	–
FS-BW 10 DIN 10/G28	18,000– 750	○	○	–	○	●	●	–
FS-BW 12 DIN 10/G28	12,000– 850	–	–	–	–	●	●	–

All data is also valid for flexible shaft versions without handpieces and 2-metre versions.

Drive systems with DIN 10/DIN 15

Flexible shaft drives – EL motors for flexible shafts and accessories

EMER 8/280 BW

Electronic flexible shaft drive with stepless rotational speed control and DIN 10 flexible shaft connection. With digital electronics for constant rotational speed.

Contents:
4 m power cable with mains connector, 2 keys (STS D 4 mm).

Special features:
- A pipe stand protects the drive.
- Overload protection.
- Smooth start-up to protect people, tools and the drive.

Rotational speed range [RPM]	Power consumption [watts]	Power output [watts]	Voltage [volts] 50–60 Hz	Plug	Net weight [kg]	Item no.	Designation
28,000 – 8,500	750	410	230	with	2.500	85206400	EMER 8/280 BW

EMER 8/90 BW

Electronic flexible shaft drive with stepless rotational speed control and DIN 10 flexible shaft connection. With digital electronics for constant rotational speed.

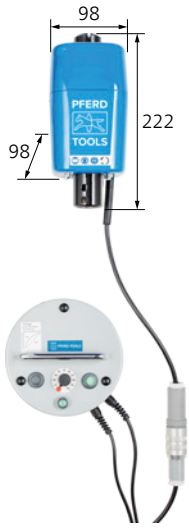
Contents:
4 m power cable, 2 keys (STS D 4 mm).

Special features:
- A pipe stand protects the drive.
- Overload protection.
- Smooth start-up to protect people, tools and the drive.

Rotational speed range [RPM]	Power consumption [watts]	Power output [watts]	Voltage [volts] 50–60 Hz	Plug	Net weight [kg]	Item no.	Designation
9,000 – 2,500	710	410	230	with	2.500	85206410	EMER 8/90 BW

Drive systems with DIN 10/DIN 15

Flexible shaft drives for Record Universal Motor and accessories



RUER 8/180 SI

Electronic flexible shaft drive with DIN 10 flexible shaft connection and robust design for heavy-duty use and stepless rotational speed control. Particularly suitable for use in tool and mould construction.

Contents:
2.5 m power cable with mains connector for the UK, 2.25 m connecting cable, 2 keys (STS D 4 mm).

Special features:
- Electronics for constant rotational speed.
- Overload protection.
- Very little noise generated.

Rotational speed range [RPM]	Power consumption [watts]	Power output [watts]	Voltage [volts] 50–60 Hz	Plug	Net weight [kg]	Item no.	Designation
18,000 – 500	1,020	600	230	with	1.650	85205710	RUER 8/180 SI

Accessories for tool drives RUER

Table stand for attachment to bench tops up to 65 mm thick with screw clamp. The support matches the table stand and allows optimum placement of the various handpieces, ready for use.

Image	Description	Net weight [kg]	Item no.	Designation
①	Table stand	2.170	86320001	TS L 1400
②	Handpiece support	0.450	86320005	TSA L 1400

Flexible shaft drives for Mini-Mammoth Electronic and accessories

MMEW 11/120

Electronic flexible shaft drive with DIN 10 flexible shaft connection and robust design for heavy-duty use, stepless rotational speed control and very little noise generated.

Contents:
2.5 m power cable with mains connector, 2 keys (STS D 4 mm).

Special features:
- Most powerful and stable torque with step-less rotational speed control.
- Mounted grinding and polishing tools with diameter ≥ 60 mm are not suitable for continuous use with the Mini-Mammoth Electronic.
- With smooth start-up to protect people, tools and the drive as well as overload protection.

Rotational speed range [RPM]	Power consumption [watts]	Power output [watts]	Voltage [volts] 50–60 Hz	Plug	Net weight [kg]	Item no.	Designation
12,000 – 800	1,100	800	230	with	7.900	85205800	MMEW 11/120

Drive systems with DIN 10/DIN 15

Flexible shaft drives for Mammoth Electronic and accessories

MEW 18/240

Electronic flexible shaft drive with DIN 10 flexible shaft connection, generates very little noise and has 1-phase alternating current and high torque, even at low rotational speeds. Achieves a maximum rotational speed of 24,000 RPM.

Contents:
4 m power cable with mains connector, 2 Allen keys.

Special features:
- Most powerful and stable torque with step-less rotational speed control.
- Removable operating console with pos-sibility of extension, e.g. hanging design for work in boilers.
- With smooth start-up to protect people, tools and the drive as well as overload protection.

Rotational speed range [RPM]	Power con-sumption [watts]	Power output [watts]	Voltage [volts] 50–60 Hz	Plug	Net weight [kg]	Item no.	Designation
24,000 – 100	2,000	1,500	200 – 240	with	24.500	85202037	MEW 18/240

ME 22/240

Electronic flexible shaft drive with DIN 10 flexible shaft connection, generates very little noise and has 3-phase alternating current and high torque, even at low rotational speeds. Achieves a maximum rotational speed of 24,000 RPM.

Contents:
4 m power cable without plug, 2 keys (STS D 4 mm).

Special features:
- Most powerful and stable torque with step-less rotational speed control.
- Removable operating console with pos-sibility of extension, e.g. hanging design for work in boilers.
- With smooth start-up to protect people, tools and the drive as well as overload protection.

Rotational speed range [RPM]	Power con-sumption [watts]	Power output [watts]	Voltage [volts] 50–60 Hz	Net weight [kg]	Item no.	Designation
24,000 – 100	2,700	2,200	380 – 480	24.500	85202041	ME 22/240 400 V

Drive systems with DIN 10/DIN 15

Flexible shaft drives for Mammoth Electronic and accessories

MEW 18/150

Electronic flexible shaft drive with DIN 10 flexible shaft connection, 1-phase alternating current and high torque over the entire rotational speed range.

Contents:
4 m power cable with mains connector, 2 keys (STS D 4 mm).

Special features:
- Most powerful and stable torque with overload protection and stepless rotational speed control (with overdrive ST 103 DIN 10 up to max. 40,000 RPM).
- Removable operating console with possibility of extension, e.g. hanging design for work in boilers.
- Frequency inverter for maintaining constant rotational speed.

Rotational speed range [RPM]	Power consumption [watts]	Power output [watts]	Voltage [volts] 50–60 Hz	Plug	Net weight [kg]	Item no.	Designation
15,000 – 100	2,000	1,500	200 – 240	with	24.500	85202036	MEW 18/150

ME 22/150

Electronic flexible shaft drive with DIN 10 flexible shaft connection, 3-phase alternating current and high torque over the entire rotational speed range.

Contents:
4 m power cable without plug, 2 keys (STS D 4 mm).

Special features:
- Most powerful and stable torque with overload protection and stepless rotational speed control (with overdrive ST 103 DIN 10 up to max. 40,000 RPM).
- Removable operating console with possibility of extension, e.g. hanging design for work in boilers.
- Frequency inverter for maintaining constant rotational speed.

Rotational speed range [RPM]	Power consumption [watts]	Power output [watts]	Voltage [volts] 50–60 Hz	Net weight [kg]	Item no.	Designation
15,000 – 100	2,700	2,200	380 – 480	24.500	85202040	ME 22/150 400 V

Remote control cable FSTK for Mammoth Electronic

For extending the operating console.

Description	Net weight [kg]	Item no.	Designation
Remote control cable	0.635	85202165	FSTK 22

Foot switch FSE 22 for Mammoth Electronic

For switching the drive on and off via the remote control interface.

Description	Net weight [kg]	Item no.	Designation
Foot switch	1.000	85202105	FSE 22 2-POLIG

Base FME for Mammoth Electronic

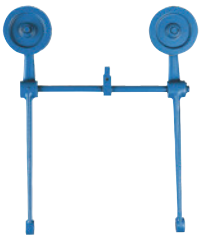
Stable base with pivot device.

Description	Net weight [kg]	Item no.	Designation
Base	2.000	85202130	FME

Overhead trolley B1 ME for Mammoth Electronic

Drive can be used in hanging position, shaft support available.

Description	Net weight [kg]	Item no.	Designation
Overhead trolley	1.200	85202110	B1 ME



Overhead trolley B2 ME for Mammoth Electronic

Drive on castors can be used in hanging position.

Description	Net weight [kg]	Item no.	Designation
Overhead trolley on castors	1.800	85202120	B2 ME

Shaft support WAL 4-12 for Mammoth Electronic

Support for flexible shaft that can be mounted onto the side of the drive.

Description	Net weight [kg]	Item no.	Designation
Shaft support	0.460	85202150	WAL 4-12

Trolley WA D ME for Mammoth Electronic

Trolley with tool tray, 4 steerable wheels of which 2 are lockable. Dimensions L x W x H: 500 x 500 x 510 mm.

Description	Net weight [kg]	Item no.	Designation
Trolley	14.200	85202140	WA D ME

Drive systems with DIN 10/DIN 15

Flexible shaft drives for Maxi-Mammoth Electronic and accessories

MME 40/150

Electronic flexible shaft drive with DIN 15 flexible shaft connection, generates very little noise and with 3-phase alternating current. High torque over the entire rotational speed range. Generates very little noise.

Contents:
4 m power cable without plug, 2 keys (STS D 6 mm).

Special features:
- Most powerful and stable torque with overload protection and stepless rotational speed control 100 to 15,000 RPM.
- Removable operating console with possibility of extension.
- With smooth start-up to protect people, tools and the drive as well as a frequency inverter for maintaining a constant rotational speed.

Rotational speed range [RPM]	Power consumption [watts]	Power output [watts]	Voltage [volts] 50–60 Hz	Net weight [kg]	Item no.	Designation
15,000 – 100	6,100	4,000	340 – 480	36.160	85202060	MME 40/150 400 V

Remote control cable FSTK 40 for Maxi-Mammoth Electronic

For extending the removable operating console. With cover plate, to protect the motor.

Description	Net weight [kg]	Item no.	Designation
Remote control cable	0.635	85202170	FSTK 40

Foot switch FSE 22 for Maxi-Mammoth Electronic

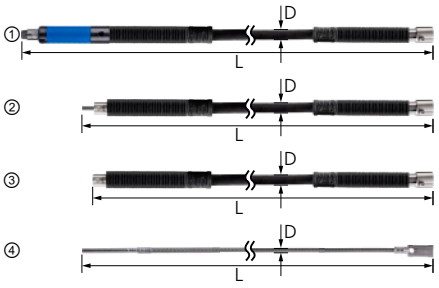
For switching the drive on and off via the remote control interface.

Description	Net weight [kg]	Item no.	Designation
Foot switch	1.000	85202105	FSE 22 2-POLIG

Trolley WA D ME for Maxi-Mammoth Electronic

Trolley with tool tray, 4 steerable wheels of which 2 are lockable. Dimensions L x W x H: 500 x 500 x 510 mm.

Description	Net weight [kg]	Item no.	Designation
Trolley	14.200	85202140	WA D ME



Flexible shaft 4

With low power output requirements, it is possible to fall below the rotational speed range. The **radius of curvature must not be less than 100 mm.** After approximately 100 operating hours, the core of the flexible shaft must be re-lubricated.

Special features:
- Special lengths available on request.
- Cores and hoses with double-sided sliding coupling on request.

Image	Rotational speed range [RPM]	Drive-side coupling DIN / dia. [mm]	Handpiece-side coupling G / dia. [mm]	Dimensions D x L [mm]	Net weight [kg]	Item no.	Designation
Flexible shaft inc. handpiece (HA 4 G16)							
①	40,000 – 18,000	10 / 30	16 / 16	13 x 1,400	0.630	86100505	BW 4 DIN10/G16
Flexible shaft without handpiece							
②	40,000 – 18,000	10 / 30	16 / 16	13 x 1,329	0.450	86200505	BW 4 DIN10/G16 oHA
Replacement casing							
③	-	10 / 30	16 / 16	13 x 1,300	0.330	86200605	SCH 4 DIN10/G16
Replacement core							
④	40,000 – 18,000	10 / M10	16 / 3.5/2.45	4 x 1,329	0.120	86200305	SE 4 DIN10/G16

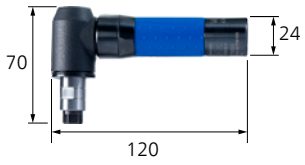
Handpiece HA 4 G16

Much more ergonomic straight handpiece.

Contents:
1 collet 6 mm (collet group 6), 2 keys (1x EM SW 11 mm, 1x EM SW 12 mm).

Special features:
- Can be connected to all flexible shafts with G16 sliding coupling.

Max. rotational speed [RPM]	Handpiece-side coupling G / dia. [mm]	Dimensions dia. x length [mm]	Net weight [kg]	Item no.	Designation
40,000	16 / 16	24 x 120	0.180	86200035	HA 4 G16



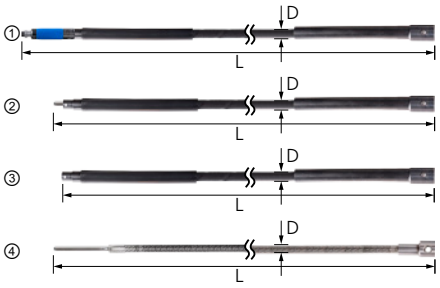
Angle handpiece WHA 4 90° G16

Much more ergonomic handpiece.

Contents:
1 collet 6 mm (collet group 6), 2 keys (1x EM SW 11 mm, 1x EM SW 14 mm).

Special features:
- Can be connected to all flexible shafts with G16 sliding coupling.

Max. rotational speed [RPM]	Handpiece-side coupling G / dia. [mm]	Dimensions dia. x length [mm]	Transmission ratio	Net weight [kg]	Item no.	Designation
20,000	16 / 16	70 x 120	1.8:1	0.304	86300121	WHA 4 90° G16



Flexible shaft 6

With low power output requirements, it is possible to fall below the rotational speed range. The **radius of curvature must not be less than 5.51".** After approximately 100 operating hours, the core of the flexible shaft must be re-lubricated.

Special features:
- Special lengths available on request.

Image	Rotational speed range [RPM]	Drive-side coupling DIN / dia. [mm]	Handpiece-side coupling G / dia. [mm]	Dimensions D x L [mm]	Net weight [kg]	Item no.	Designation
Flexible shaft inc. handpiece (HA 4 G16)							
①	25,000 – 11,000	10 / 30	16 / 16	16 x 1,650	1.190	86210051	BW 6 DIN10/G16
Flexible shaft without handpiece							
②	25,000 – 11,000	10 / 30	16 / 16	16 x 1,583	1.100	86210060	BW 6 DIN10/G16 oHA
Replacement casing							
③	-	10 / 30	16 / 16	16 x 1,553	0.740	86210080	SCH 6 DIN10/G16
Replacement core							
④	25,000 – 11,000	10 / M10	16 / 3.5/2.45	6 x 1,583	0.270	86210070	SE 6 DIN10/G16

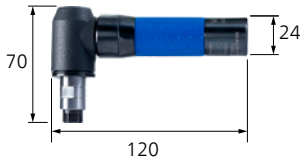
Handpiece HA 4 G16

Much more ergonomic straight handpiece.

Contents:
1 collet 6 mm (collet group 6), 2 keys (1x EM SW 11 mm, 1x EM SW 12 mm).

Special features:
- Can be connected to all flexible shafts with G16 sliding coupling.

Max. rotational speed [RPM]	Handpiece-side coupling G / dia. [mm]	Dimensions dia. x length [mm]	Net weight [kg]	Item no.	Designation
40,000	16 / 16	24 x 120	0.180	86200035	HA 4 G16



Angle handpiece WHA 4 90° G16

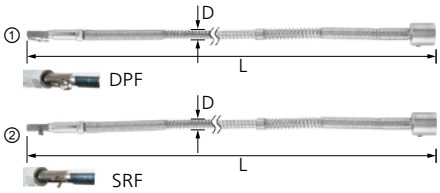
Much more ergonomic handpiece.

Contents:
1 collet 6 mm (collet group 6), 2 keys (1x EM SW 11 mm, 1x EM SW 14 mm).

Special features:
- Can be connected to all flexible shafts with G16 sliding coupling.

Max. rotational speed [RPM]	Handpiece-side coupling G / dia. [mm]	Dimensions dia. x length [mm]	Transmission ratio	Net weight [kg]	Item no.	Designation
20,000	16 / 16	70 x 120	1.8:1	0.304	86300121	WHA 4 90° G16

Drive systems with DIN 10/DIN 15
Flexible shaft 6 Z and handpieces

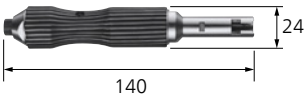


Flexible shaft 6 Z

With low power output requirements, it is possible to fall below the rotational speed range. The **radius of curvature must not be less than 140 mm.** After approximately 100 operating hours, the core of the flexible shaft must be re-lubricated.

Special features:
- Special lengths available on request.

Image	Rotational speed range [RPM]	Drive-side coupling DIN / dia. [mm]	Handpiece-side coupling G / dia. [mm]	Dimensions D x L [mm]	Net weight [kg]	Item no.	Designation
Flexible shaft (without handpiece having duplex spring coupling DPF)							
①	18,000 – 9,000	10 / 30	DPF / 10	12 x 1,250	0.800	86210010	BW 6 Z DIN 10/DPF oHA
Flexible shaft (without handpiece having expansion ring coupling SRF)							
②	18,000 – 9,000	10 / 30	SRF / 10	12 x 1,250	0.800	86210020	BW 6 Z DIN 10/SRF oHA



Handpiece HA 6 Z DPF/SRF

Straight handpiece, can be connected to flexible shafts, with handpiece-side coupling DPF/SRF (DPF = fixed duplex spring, SRF = flexible expansion ring).

Contents:
1 collet 6 mm (collet group 13), 2 keys (1x EM SW 9 mm, 1x STS D 2.5 mm).

Special features:
- Can be connected to all flexible shafts 6 Z DPF/SRF.

Max. rotational speed [RPM]	Handpiece-side coupling G / dia. [mm]	Dimensions dia. x length [mm]	Net weight [kg]	Item no.	Designation
18,000	DPF/SRF / 10	24 x 140	0.131	86210100	HA 6 Z DPF/SRF

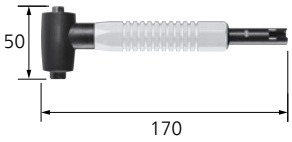
Handpiece HA 6 Z SP 3.0 DPF/SRF

Straight handpiece, can be connected to flexible shafts, with handpiece-side coupling DPF/SRF (DPF = fixed duplex spring, SRF = flexible expansion ring).

Contents:
1 collet SPZ 90187030 3 mm.

Special features:
- Can be connected to all flexible shafts 6 Z DPF/SRF.

Max. rotational speed [RPM]	Handpiece-side coupling G / dia. [mm]	Dimensions dia. x length [mm]	Net weight [kg]	Item no.	Designation
18,000	DPF/SRF / 10	22 x 139	0.109	86210110	HA 6 Z SP 3.0 DPF/SRF



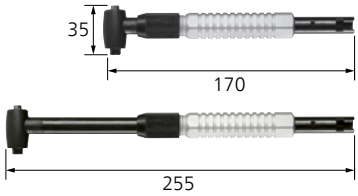
Angle handpiece WZ 6 DPF/SRF

Handpiece, can be connected to flexible shafts, with handpiece-side coupling DPF/SRF (DPF = fixed duplex spring, SRF = flexible expansion ring).

Contents:
1 collet 6 mm (collet group 13), 2 keys (1x EM SW 9 mm, 1x SKS SW 4 mm).

Special features:
- Can be connected to all flexible shafts 6 Z DPF/SRF.

Max. rotational speed [RPM]	Handpiece-side coupling G / dia. [mm]	Dimensions dia. x length [mm]	Transmission ratio	Net weight [kg]	Item no.	Designation
18,000	DPF/SRF / 10	50 x 170	1.25:1	0.225	86210120	WZ 6 DPF/SRF



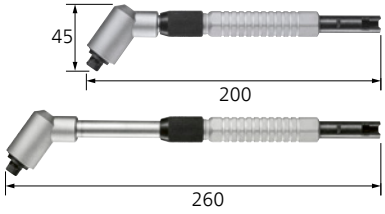
Angle handpiece WZT 6 3.0 DPF/SRF

Handpiece with telescopic system, can be connected to flexible shafts, with handpiece-side coupling DPF/SRF (DPF = fixed duplex spring, SRF = flexible expansion ring).

Contents:
1 collet 3 mm (collet group 14), 2 keys (EM SW 7 mm).

Special features:
- Can be connected to all flexible shafts 6 Z DPF/SRF.

Max. rotational speed [RPM]	Handpiece-side coupling G / dia. [mm]	Dimensions dia. x length [mm]	Transmission ratio	Net weight [kg]	Item no.	Designation
18,000	DPF/SRF / 10	35 x 170	1.38:1	0.170	86210130	WZT 6 3.0 DPF/SRF



Angle handpiece WZT 6 45° 6.0 DPF/SRF

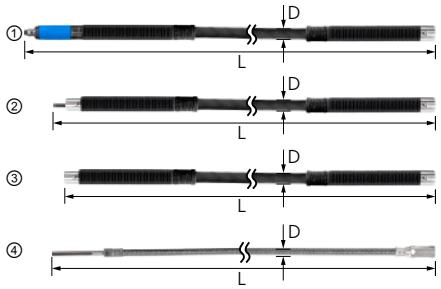
Handpiece with telescopic system, can be connected to flexible shafts, with handpiece-side coupling DPF/SRF (DPF = fixed duplex spring, SRF = flexible expansion ring).

Contents:
1 collet 6 mm (collet group 13), 2 keys (1x EM SW 9 mm, 1x EM SW 14 mm).

Special features:
- Can be connected to all flexible shafts 6 Z DPF/SRF.

Max. rotational speed [RPM]	Handpiece-side coupling G / dia. [mm]	Dimensions dia. x length [mm]	Transmission ratio	Net weight [kg]	Item no.	Designation
18,000	DPF/SRF / 10	45 x 200	1.53:1	0.210	86210140	WZT 6 45° 6.0 DPF/SRF

Flexible shaft 7 and handpieces

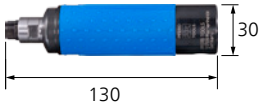


Flexible shaft 7

With low power output requirements, it is possible to fall below the rotational speed range. The **radius of curvature must not be less than 140 mm.** After approximately 100 operating hours, the core of the flexible shaft must be re-lubricated.

Special features:
- Special lengths available on request.
- Cores and hoses with double-sided sliding coupling on request.

Image	Rotational speed range [RPM]	Drive-side coupling DIN / dia. [mm]	Handpiece-side coupling G / dia. [mm]	Dimensions D x L [mm]	Net weight [kg]	Item no.	Designation
Flexible shaft inc. handpiece (HA 7 G22)							
①	25,000 – 11,000	10 / 30	22 / 22	18 x 1,654	1.536	86100509	BW 7 DIN10/G22
				18 x 2,154	1.986	86100529	BW 7 DIN10/G22 2M
Flexible shaft without handpiece							
②	25,000 – 11,000	10 / 30	22 / 22	18 x 1,589	1.250	86200509	BW 7 DIN10/G22 oHA
				18 x 2,089	1.700	86200529	BW 7 DIN10/G22 2M oHA
Replacement casing							
③	-	10 / 30	22 / 22	18 x 1,553	0.850	86200609	SCH 7 DIN10/G22
				18 x 2,053	1.100	86200629	SCH 7 DIN10/G22 2M
Replacement core							
④	25,000 – 11,000	10 / M10	22 / 5/3.85	7 x 1,589	0.400	86200309	SE 7 DIN10/G22
③	25,000 – 11,000	10 / M10	22 / 5/3.85	7 x 2,089	0.600	86200329	SE 7 DIN10/G22 2M



Handpiece HA 7 G22

Much more ergonomic straight handpiece.

Contents:
1 collet 6 mm (collet group 6), 2 keys
(1x EM SW 11 mm, 1x EM SW 14 mm).

Special features:
- Can be connected to all flexible shafts with G22 sliding coupling.

Max. rotational speed [RPM]	Handpiece-side coupling G / dia. [mm]	Dimensions dia. x length [mm]	Net weight [kg]	Item no.	Designation
25,000	22 / 22	30 x 130	0.286	86200036	HA 7 G22

Handpiece HA 7 G22 SM

Straight handpiece with clamping nut and significantly improved ergonomics.

Contents:
1 collet 6 mm (collet group 11), 2 keys
(1x EM SW 14 mm, 1x EM SW 18 mm).

Special features:
- Safe working due to clamping nut.
- Can be connected to all flexible shafts with G22 sliding coupling.

Max. rotational speed [RPM]	Handpiece-side coupling G / dia. [mm]	Dimensions dia. x length [mm]	Net weight [kg]	Item no.	Designation
25,000	22 / 22	30 x 131	0.547	86200044	HA 7 G22 SM

Angle handpiece WHA 7 90° G22

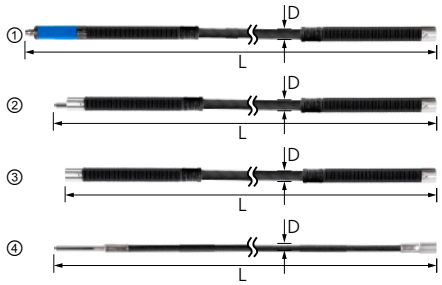
Much more ergonomic handpiece. Can be connected to all flexible shafts with G22 sliding coupling.

Contents:
1 collet 6 mm (collet group 6), 2 keys
(1x EM SW 11 mm, 1x EM SW 14 mm).

Special features:
- Can be connected to all flexible shafts with G22 sliding coupling.

Max. rotational speed [RPM]	Handpiece-side coupling G / dia. [mm]	Dimensions dia. x length [mm]	Transmission ratio	Net weight [kg]	Item no.	Designation
17,100	22 / 22	67 x 165	1:1	0.650	86300122	WHA 7 90° G22

Flexible shaft 10 and handpieces



Flexible shaft 10 SE 11

The rotational speed should not fall below or exceed the specified range. The **radius of curvature must not be less than 170 mm.** After approximately 100 operating hours, the core of the flexible shaft must be re-lubricated.

Special features:
- Special lengths available on request.
- Cores and hoses with double-sided sliding coupling on request.

Image	Rotational speed range [RPM]	Drive-side coupling DIN / dia. [mm]	Handpiece-side coupling G / dia. [mm]	Dimensions D x L [mm]	Net weight [kg]	Item no.	Designation
Flexible shaft inc. handpiece (HA 10 G28)							
①	18,000 – 750	10 / 30	28 / 28	22 x 1,673	2.663	86101510	BW 10 SE 11 DIN10/G28
				22 x 2,173	3.113	86101511	BW 10 SE 11 DIN10/G28 2M
		15 / 40	28 / 28	22 x 1,684	2.713	86100714	BW 10 SE 11 DIN 15/G28

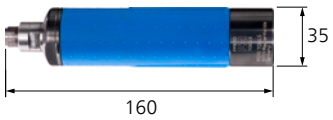
Continued on next page

New item

Drive systems with DIN 10/DIN 15
Flexible shaft 10 and handpieces

PFERD TOOLS

Image	Rotational speed range [RPM]	Drive-side coupling DIN / dia. [mm]	Handpiece-side coupling G / dia. [mm]	Dimensions D x L [mm]	Net weight [kg]	Item no.	Designation
Flexible shaft without handpiece							
②	18,000 – 750	10 / 30	28 / 28	22 x 1,600	2.232	86200516	BW 10 SE 11 DIN10/G28 oHA
				22 x 2,100	2.682	86200517	BW 10 SE 11 DIN10/G28 2M oHA
		15 / 40	28 / 28	22 x 1,611	2.282	86200714	BW 10 SE 11 DIN 15/G28 oHA
Replacement casing							
③	-	10 / 30	28 / 28	22 x 1,553	1.430	86200630	SCH 10 DIN10/G28
				22 x 2,053	1.580	86200631	SCH 10 DIN10/G28 2M
		15 / 40	28 / 28	22 x 1,570	1.430	86200614	SCH 10 DIN 15/G28
Replacement core							
④	18,000 – 750	10 / M10	28 / 7.5/5.85	11 x 1,600	0.802	87100951	SE 11 DIN10/G28
③	18,000 – 750	10 / M10	28 / 7.5/5.85	11 x 2,100	1.102	87100133	SE 11 DIN10/G28 2M
④	18,000 – 750	15 / M14	28 / 7.5/5.85	11 x 1,611	0.852	86200314	SE 11 DIN 15/G28



Handpiece HA 10 G28

Much more ergonomic straight handpiece.

Contents:
1 collet 6 mm (collet group 6), 2 keys (1x EM SW 11 mm, 1x EM SW 15 mm).

Special features:
- Can be connected to all flexible shafts with G28 sliding coupling.

Max. rotational speed [RPM]	Handpiece-side coupling G / dia. [mm]	Dimensions dia. x length [mm]	Net weight [kg]	Item no.	Designation
18,000	28 / 28	35 x 160	0.431	86200037	HA 10 G28

Handpiece HA 12 G28

Much more ergonomic straight handpiece. With clamping nut for maximum clamping force and collets up to 12 mm available.

Contents:
1 collet 6 mm (collet group 12), 2 keys (DM SW 20/22 mm).

Special features:
- Can be connected to all flexible shafts with G28 sliding coupling.

Max. rotational speed [RPM]	Handpiece-side coupling G / dia. [mm]	Dimensions dia. x length [mm]	Net weight [kg]	Item no.	Designation
18,000	28 / 28	35 x 170	0.545	86200038	HA 12 G28

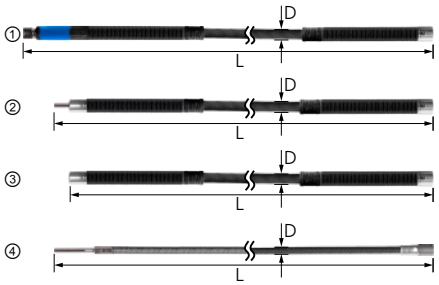
Angle handpiece WHA 10 90° G28 for flexible shaft 10 SE 11

Much more ergonomic handpiece.

Contents:
1 collet 6 mm (collet group 6), 2 keys (1x EM SW 11 mm, 1x EM SW 14 mm).

Special features:
- Can be connected to all flexible shafts with G28 sliding coupling.

Max. rotational speed [RPM]	Handpiece-side coupling G / dia. [mm]	Dimensions dia. x length [mm]	Transmission ratio	Net weight [kg]	Item no.	Designation
17,100	28 / 28	67 x 165	1:1	0.640	86300123	WHA 10 90° G28

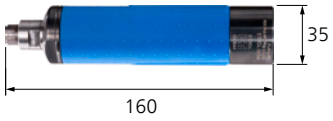


Flexible shaft 12

The rotational speed should not fall below or exceed the specified range. The **radius of curvature must not be less than 240 mm.** After approximately 100 operating hours, the core of the flexible shaft must be re-lubricated.

Special features:
- Special lengths available on request.
- Cores and hoses with double-sided sliding coupling on request.

Image	Rotational speed range [RPM]	Drive-side coupling DIN / dia. [mm]	Handpiece-side coupling G / dia. [mm]	Dimensions D x L [mm]	Net weight [kg]	Item no.	Designation
Flexible shaft inc. handpiece (HA 12 G28)							
①	12,000 – 850	10 / 30	28 / 28	25 x 2,173	4.295	86101512	BW 12 DIN10/G28
		15 / 40	28 / 28	25 x 2,183	4.345	86101513	BW 12 DIN15/G28
Flexible shaft without handpiece							
②	12,000 – 850	10 / 30	28 / 28	25 x 2,102	3.750	86200518	BW 12 DIN10/G28 oHA
		15 / 40	28 / 28	25 x 2,112	3.800	86200519	BW 12 DIN15/G28 oHA
Replacement casing							
③	-	10 / 30	28 / 28	25 x 2,045	2.450	86200633	SCH 12 DIN10/G28
		15 / 40	28 / 28	25 x 2,059	2.500	86200634	SCH 12 DIN15/G28
Replacement core							
③	12,000 – 850	10 / M10	28 / 7.5/5.85	12 x 2,102	1.300	86200333	SE 12 DIN10/G28
④	12,000 – 850	15 / M14	28 / 7.5/5.85	12 x 2,112	1.300	86200334	SE 12 DIN15/G28



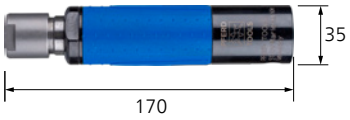
Handpiece HA 10 G28

Much more ergonomic straight handpiece.

Contents:
1 collet 6 mm (collet group 6), 2 keys (1x EM SW 11 mm, 1x EM SW 15 mm).

Special features:
- Can be connected to all flexible shafts with G28 sliding coupling.

Max. rotational speed [RPM]	Handpiece-side coupling G / dia. [mm]	Dimensions dia. x length [mm]	Net weight [kg]	Item no.	Designation
18,000	28 / 28	35 x 160	0.431	86200037	HA 10 G28



Handpiece HA 12 G28

Much more ergonomic straight handpiece. With clamping nut for maximum clamping force and collets up to 12 mm available.

Contents:
1 collet 6 mm (collet group 12), 2 keys (DM SW 20/22 mm).

Special features:
- Can be connected to all flexible shafts with G28 sliding coupling.

Max. rotational speed [RPM]	Handpiece-side coupling G / dia. [mm]	Dimensions dia. x length [mm]	Net weight [kg]	Item no.	Designation
18,000	28 / 28	35 x 170	0.545	86200038	HA 12 G28

Angle handpiece WHA 10 90° G28

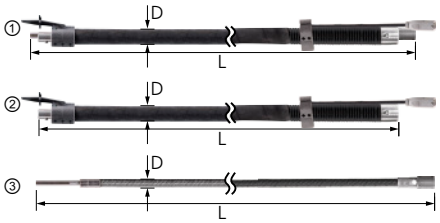
Much more ergonomic handpiece.

Contents:
1 collet 6 mm (collet group 6), 2 keys (1x EM SW 11 mm, 1x EM SW 14 mm).

Special features:
- Can be connected to all flexible shafts with G28 sliding coupling.

Max. rotational speed [RPM]	Handpiece-side coupling G / dia. [mm]	Dimensions dia. x length [mm]	Transmission ratio	Net weight [kg]	Item no.	Designation
17,100	28 / 28	67 x 165	1:1	0.640	86300123	WHA 10 90° G28

Remote switch for flexible shafts and accessories



Remote switch for flexible shafts

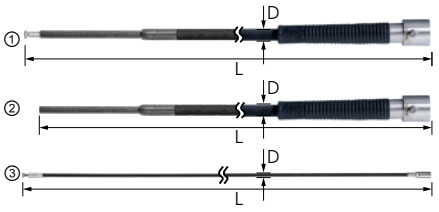
Convenient operation from the workstation. Alternative to the foot switch. After approximately 100 operating hours, the core of the flexible shaft must be re-lubricated.

Special features:
- Switch on and off directly on the handpiece.
- Quick handpiece changing possible.
- Enhanced safety thanks to fast switch-off.

Image	Rotational speed range [RPM]	Drive-side coupling DIN / dia. [mm]	Handpiece-side coupling G / dia. [mm]	Dimensions dia. x length [mm]	Net weight [kg]	Item no.	Designation
Flexible shaft 7							
①	25,000 – 11,000	10 / 30	22 / 22	18 x 2,089	2.000	86200657	FS-BW 7 DIN10/G22 2M oHA
②	-	10 / 30	22 / 22	18 x 2,053	1.400	86200658	FS-SCH 7 DIN10/G22 2M
③	25,000 – 11,000	10 / M10	22 / 5/3.85	7 x 2,089	0.600	86200329	SE 7 DIN10/G22 2M
Flexible shaft 10							
①	18,000 – 750	10 / 30	28 / 28	22 x 2,100	3.012	86200659	FS-BW 10 SE 11 DIN10/G28 2M oHA
②	-	10 / 30	28 / 28	22 x 2,053	1.910	86200660	FS-SCH 10 DIN10/G28 2M
③	18,000 – 750	10 / M10	28 / 7.5/5.85	11 x 2,100	1.102	87100133	SE 11 DIN10/G28 2M
Flexible shaft 12							
①	12,000 – 850	10 / 30	28 / 28	25 x 2,102	4.080	86200661	FS-BW 12 DIN10/G28 2M oHA
②	-	10 / 30	28 / 28	25 x 2,045	2.780	86200662	FS-SCH 12 DIN10/G28 2M
③	12,000 – 850	10 / M10	28 / 7.5/5.85	12 x 2,102	1.300	86200333	SE 12 DIN10/G28

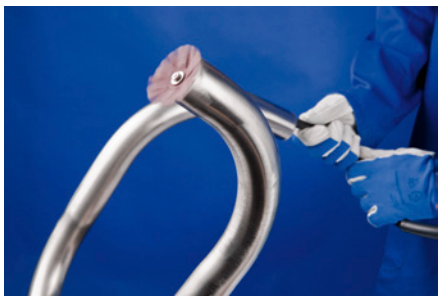
Drive systems with DIN 10/DIN 15

Special flexible shafts for inner grinding of pipes and accessories



Flexible shaft 4 PST-T | Flexible shaft 7 PST-T

The POLISTAR-TUBE grinding tools are attached directly to the core of the special flexible shaft. After approximately 100 operating hours, the core of the flexible shaft must be re-lubricated.



Special features:

- Excellent for gradual fine grinding and cleaning of inner surfaces of pipes and pipe bends.
- Both pipe bend ends can be deburred from the entry side.
- The special flexible shafts do not have a handpiece for tool mounting and are particularly flexible in the front section.

Image	Rotational speed range [RPM]	Drive-side coupling DIN / dia. [mm]	Dimensions dia. x length [mm]	Fastening thread	Tool mounting [mm]	Net weight [kg]	Item no.	Designation
Flexible shaft								
①	7,650 – 1,500	10 / 30	13 x 1,537	M4	4	0.480	87101801	BW 4 PST-T DIN 10/M4 1,5 m
	4,250 – 1,500	10 / 30	18 x 2,032	M5	5	1.320	87101804	BW 7 PST-T DIN 10/M5 2 m
Pre-assembled replacement casing								
②	-	10 / 30	13 x 1,537	-	-	0.353	87101803	SCH 4 PST-T DIN 10/M4 1.5 m
			18 x 2,032	-	-	0.871	87101806	SCH 7 PST-T DIN 10/M5 2 m
Pre-assembled replacement core								
③	7,650 – 1,500	10 / M10	4 x 1,528	M4	4	0.124	87101802	SE 4 PST-T DIN10/M4 1,5 m
	4,250 – 1,500	10 / M10	7 x 2,031	M5	5	0.447	87101805	SE 7 PST-T DIN 10/M5 2 m

①

②

③

Accessories for flexible shafts BW 4 PST-T, 7 PST-T

PFERD TOOLS offers thread adapters, flange screws and keys.

Image	Tool mounting [mm]	Net weight [kg]	Item no.	Designation
Suitable for BW 4 PST-T				
①	8-32 UNC	0.002	87101500	AD M4/8-32 UNC
②	4	0.002	87200221	FLS M4
③	-	0.008	90001914	EM SW 7 mm
Suitable for BW 7 PST-T				
①	8-32 UNC	0.003	87101501	AD M5/8-32 UNC
②	5	0.003	87200222	FLS M5
③	-	0.014	93785706	EM SW 8 mm

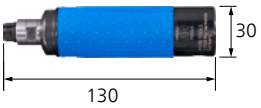
Handpiece HA 4 G16

Much more ergonomic straight handpiece.

Contents:
1 collet 6 mm (collet group 6), 2 keys
(1x EM SW 11 mm, 1x EM SW 12 mm).

Special features:
- Can be connected to all flexible shafts with G16 sliding coupling.

Max. rotational speed [RPM]	Handpiece-side coupling G / dia. [mm]	Dimensions dia. x length [mm]	Net weight [kg]	Item no.	Designation
40,000	16 / 16	24 x 120	0.180	86200035	HA 4 G16



Handpiece HA 7 G22

Much more ergonomic straight handpiece.

Contents:
1 collet 6 mm (collet group 6), 2 keys
(1x EM SW 11 mm, 1x EM SW 14 mm).

Special features:
- Can be connected to all flexible shafts with G22 sliding coupling.

Max. rotational speed [RPM]	Handpiece-side coupling G / dia. [mm]	Dimensions dia. x length [mm]	Net weight [kg]	Item no.	Designation
25,000	22 / 22	30 x 130	0.286	86200036	HA 7 G22

Handpiece HA 7 G22 SM

Straight handpiece with clamping nut and significantly improved ergonomics.

Contents:
1 collet 6 mm (collet group 11), 2 keys
(1x EM SW 14 mm, 1x EM SW 18 mm).

Special features:
- Safe working due to clamping nut.
- Can be connected to all flexible shafts with G22 sliding coupling.

Max. rotational speed [RPM]	Handpiece-side coupling G / dia. [mm]	Dimensions dia. x length [mm]	Net weight [kg]	Item no.	Designation
25,000	22 / 22	30 x 131	0.547	86200044	HA 7 G22 SM

Handpiece HA 10 G28

Much more ergonomic straight handpiece.

Contents:
1 collet 6 mm (collet group 6), 2 keys
(1x EM SW 11 mm, 1x EM SW 15 mm).

Special features:
- Can be connected to all flexible shafts with G28 sliding coupling.

Max. rotational speed [RPM]	Handpiece-side coupling G / dia. [mm]	Dimensions dia. x length [mm]	Net weight [kg]	Item no.	Designation
18,000	28 / 28	35 x 160	0.431	86200037	HA 10 G28

Handpiece HA 12 G28

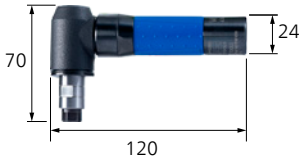
Much more ergonomic straight handpiece. With clamping nut for maximum clamping force and collets up to 12 mm available.

Contents:
1 collet 6 mm (collet group 12), 2 keys
(DM SW 20/22 mm).

Special features:
- Can be connected to all flexible shafts with G28 sliding coupling.

Max. rotational speed [RPM]	Handpiece-side coupling G / dia. [mm]	Dimensions dia. x length [mm]	Net weight [kg]	Item no.	Designation
18,000	28 / 28	35 x 170	0.545	86200038	HA 12 G28

New item



Angle handpiece WHA 4 90° G16

Much more ergonomic handpiece.

Contents:
1 collet 6 mm (collet group 6), 2 keys (1x EM SW 11 mm, 1x EM SW 14 mm).

Special features:
- Can be connected to all flexible shafts with G16 sliding coupling.

Max. rotational speed [RPM]	Handpiece-side coupling G / dia. [mm]	Dimensions dia. x length [mm]	Transmission ratio	Net weight [kg]	Item no.	Designation
20,000	16 / 16	70 x 120	1.8:1	0.304	86300121	WHA 4 90° G16

Angle handpiece WHA 7 90° G22

Much more ergonomic handpiece. Can be connected to all flexible shafts with G22 sliding coupling.

Contents:
1 collet 6 mm (collet group 6), 2 keys (1x EM SW 11 mm, 1x EM SW 14 mm).

Special features:
- Can be connected to all flexible shafts with G22 sliding coupling.

Max. rotational speed [RPM]	Handpiece-side coupling G / dia. [mm]	Dimensions dia. x length [mm]	Transmission ratio	Net weight [kg]	Item no.	Designation
17,100	22 / 22	67 x 165	1:1	0.650	86300122	WHA 7 90° G22

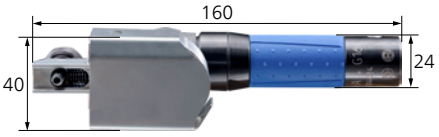
Angle handpiece WHA 10 90° G28

Much more ergonomic handpiece.

Contents:
1 collet 6 mm (collet group 6), 2 keys (1x EM SW 11 mm, 1x EM SW 14 mm).

Special features:
- Can be connected to all flexible shafts with G28 sliding coupling.

Max. rotational speed [RPM]	Handpiece-side coupling G / dia. [mm]	Dimensions dia. x length [mm]	Transmission ratio	Net weight [kg]	Item no.	Designation
17,100	28 / 28	67 x 165	1:1	0.640	86300123	WHA 10 90° G28



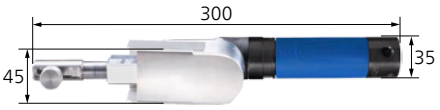
Belt grinder handpiece BHA 4 G16 oVA

Belt grinder handpiece with belt grinder attachment and G16 sliding coupling. Belt grinder attachment without attachment arm.

Contents:
1 key (SKS SW 4 mm), 1x protective cover.

Special features:
- The belt grinder attachment can be pivoted on the drive system.
- Suitable for belt grinder attachment arms from **belt grinder attachment arm group 1**.
- Can be connected to all flexible shafts with G16 sliding coupling.

Max. rotational speed [RPM]	Handpiece-side coupling G / dia. [mm]	Transmission ratio	Net weight [kg]	Item no.	Designation
20,000	16 / -	1.8:1	0.403	86400001	BHA 4 G16 oVA



Belt grinder handpiece BHA 7 G22 oVA

Belt grinder handpiece with belt grinder attachment and G22/diameter 22 mm sliding coupling. Belt grinder attachment without attachment arm. Suitable for belt grinder attachment arms from belt grinder attachment arm group 2.

Contents:
2 keys (1x SKS SW 3 mm and
1x SKS SW 4 mm), 1 protective cover.

Special features:
- The belt grinder attachment can be pivoted on the drive system.
- *The BSAD 41/36 x 610 belt grinding adapter achieves a belt length of 610 mm.
- Can be connected to all flexible shafts with G22 sliding coupling.

Max. rotational speed [RPM]	Handpiece-side coupling G / dia. [mm]	Transmission ratio	Net weight [kg]	Item no.	Designation
17,100	22 / -	1:1	0.766	86400002	BHA 7 G22 oVA

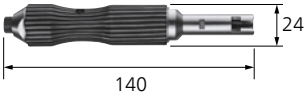
Belt grinder handpiece BHA 10 G28 oVA

Belt grinder handpiece with belt grinder attachment and G28/diameter 28 mm sliding coupling. Belt grinder attachment without attachment arm. Suitable for belt grinder attachment arms from belt grinder attachment arm group 2.

Contents:
2 keys (1x SKS SW 3 mm and
1x SKS SW 4 mm), 1 protective cover.

Special features:
- The belt grinder attachment can be pivoted on the drive system.
- *The BSAD 41/36 x 610 belt grinding adapter achieves a belt length of 610 mm.
- Can be connected to all flexible shafts with G28 sliding coupling.

Max. rotational speed [RPM]	Handpiece-side coupling G / dia. [mm]	Transmission ratio	Net weight [kg]	Item no.	Designation
17,100	28 / -	1:1	0.766	86400004	BHA 10 G28 oVA



Handpiece HA 6 Z DPF/SRF

Straight handpiece, can be connected to flexible shafts, with handpiece-side coupling DPF/SRF (DPF = fixed duplex spring, SRF = flexible expansion ring).

Contents:
1 collet 6 mm (collet group 13), 2 keys
(1x EM SW 9 mm, 1x STS D 2.5 mm).

Special features:
- Can be connected to all flexible shafts 6 Z DPF/SRF.

Max. rotational speed [RPM]	Handpiece-side coupling G / dia. [mm]	Dimensions dia. x length [mm]	Net weight [kg]	Item no.	Designation
18,000	DPF/SRF / 10	24 x 140	0.131	86210100	HA 6 Z DPF/SRF

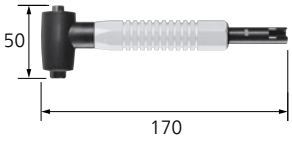
Handpiece HA 6 Z SP 3.0 DPF/SRF

Straight handpiece, can be connected to flexible shafts, with handpiece-side coupling DPF/SRF (DPF = fixed duplex spring, SRF = flexible expansion ring).

Contents:
1 collet SPZ 90187030 3 mm.

Special features:
- Can be connected to all flexible shafts 6 Z DPF/SRF.

Max. rotational speed [RPM]	Handpiece-side coupling G / dia. [mm]	Dimensions dia. x length [mm]	Net weight [kg]	Item no.	Designation
18,000	DPF/SRF / 10	22 x 139	0.109	86210110	HA 6 Z SP 3.0 DPF/SRF



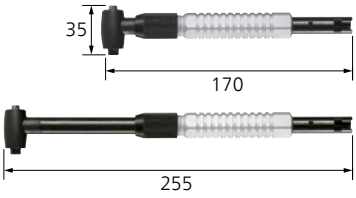
Angle handpiece WZ 6 DPF/SRF

Handpiece, can be connected to flexible shafts, with handpiece-side coupling DPF/SRF (DPF = fixed duplex spring, SRF = flexible expansion ring).

Contents:
1 collet 6 mm (collet group 13), 2 keys (1x EM SW 9 mm, 1x SKS SW 4 mm).

Special features:
- Can be connected to all flexible shafts 6 Z DPF/SRF.

Max. rotational speed [RPM]	Handpiece-side coupling G / dia. [mm]	Dimensions dia. x length [mm]	Transmission ratio	Net weight [kg]	Item no.	Designation
18,000	DPF/SRF / 10	50 x 170	1.25:1	0.225	86210120	WZ 6 DPF/SRF



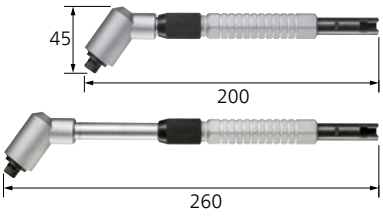
Angle handpiece WZT 6 3.0 DPF/SRF

Handpiece with telescopic system, can be connected to flexible shafts, with handpiece-side coupling DPF/SRF (DPF = fixed duplex spring, SRF = flexible expansion ring).

Contents:
1 collet 3 mm (collet group 14), 2 keys (EM SW 7 mm).

Special features:
- Can be connected to all flexible shafts 6 Z DPF/SRF.

Max. rotational speed [RPM]	Handpiece-side coupling G / dia. [mm]	Dimensions dia. x length [mm]	Transmission ratio	Net weight [kg]	Item no.	Designation
18,000	DPF/SRF / 10	35 x 170	1.38:1	0.170	86210130	WZT 6 3.0 DPF/SRF



Angle handpiece WZT 6 45° 6.0 DPF/SRF

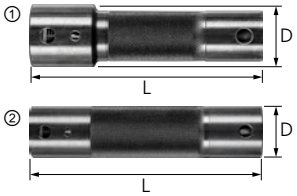
Handpiece with telescopic system, can be connected to flexible shafts, with handpiece-side coupling DPF/SRF (DPF = fixed duplex spring, SRF = flexible expansion ring).

Contents:
1 collet 6 mm (collet group 13), 2 keys (1x EM SW 9 mm, 1x EM SW 14 mm).

Special features:
- Can be connected to all flexible shafts 6 Z DPF/SRF.

Max. rotational speed [RPM]	Handpiece-side coupling G / dia. [mm]	Dimensions dia. x length [mm]	Transmission ratio	Net weight [kg]	Item no.	Designation
18,000	DPF/SRF / 10	45 x 200	1.53:1	0.210	86210140	WZT 6 45° 6.0 DPF/SRF

Flexible shaft adapter



Flexible shaft adapter

The flexible shaft adapter conveniently connects rigid extensions and flexible shafts.

Image	Length L [mm]	Diameter D [mm]	Net weight [kg]	Item no.	Designation
①	126	34	0.285	86300307	BWA G22/DIN 10
②	153	34	0.563	86300308	BWA G28/DIN 10

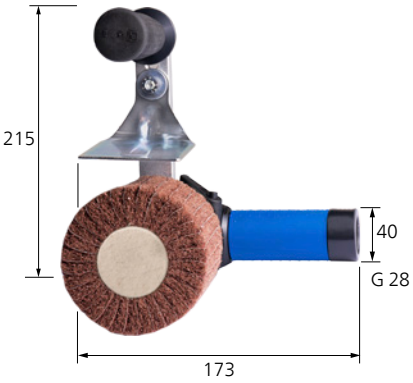
Angle drive WT 10 G28

Can be connected to all flexible shafts with G28 connection (instead of the handpiece). Connection to flexible shaft can be pivoted 360°. With M14 spindle thread and 22.23 mm tool mounting.

Contents:
1 clamping nut (item no. 98980036), 2 flange screws (1x item no. 98980037, 1x item no. 98980038), 2 spacer sleeves (1x item no. 98980039, 1x item no. 98980040), 2 keys (1x STL SW 35 x 5 mm, 1x SKS SW 4 mm), guard dia. 125 mm, anti-vibration handle.

Special features:
- Enables flexible shaft drives to be used as angle grinders.

Drive operating speed n max. [RPM]	Transmission ratio	Output speed at n max. [RPM]	Net weight [kg]	Item no.	Designation
18,000	1.53:1	12,000	1.438	86300621	WT 10 G28



Burnishing angle drive SWT 10 G28

Can be connected to all flexible shafts with G28 connection (instead of the handpiece). Connection to shaft can be pivoted 360°. With M14 spindle thread and **19 x 100 mm tool mounting [dia. x width].**

Contents:
Hand guard, anti-vibration handle, detachable drive spindle.

Special features:
- Enables flexible shaft drives to be used as burnishing machines.

Drive operating speed n max. [RPM]	Transmission ratio	Output speed at n max. [RPM]	Net weight [kg]	Item no.	Designation
18,000	1.53:1	12,000	1.901	87101531	SWT 10 G28

BSG 10/35 E G28

Belt sander with a belt length of 450 mm x width 35 mm. Matching belts: BA 35/450 and VB 35/450. Can be connected to all flexible shafts with G28 sliding coupling (instead of the handpiece).

Contents:
1 key (SKST SW 17 mm).

Special features:
- Elastically mounted spindle.
- Can be connected to flexible shafts without handpiece.

Max. rotational speed [RPM]	Matches handpiece-side flexible shaft coupling G/dia. [mm]	Net weight [kg]	Item no.	Designation
7,000	28 / 28	1.500	86400160	BSG 10/35 E G28

BSG 10/50 E G28

Belt sander with a belt length of 450 mm x width 50 mm. Matching belts: BA 50/450 and VB 50/450. Can be connected to all flexible shafts with G28 sliding coupling (instead of the handpiece).

Contents:
1 key (SKST SW 17 mm).

Special features:
- Elastically mounted spindle.
- Can be connected to flexible shafts without handpiece.

Max. rotational speed [RPM]	Matches handpiece-side flexible shaft coupling G/dia. [mm]	Net weight [kg]	Item no.	Designation
7,000	28 / 28	1.580	86400156	BSG 10/50 E G28

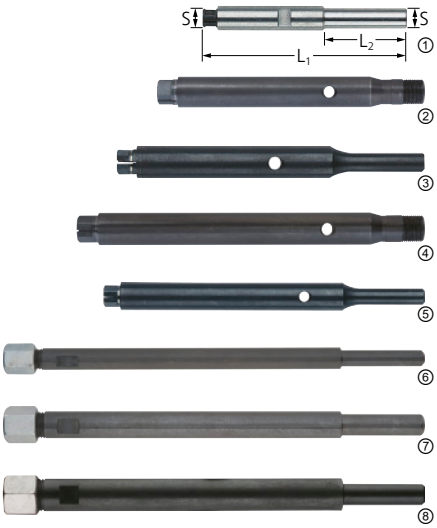
①

②

Replacement rollers for belt sanders

PFERD TOOLS offers guide rollers, drive rollers and soft drive rollers.

Image	Description	D [mm]	T [mm]	Suitable for belt sanders	Net weight [kg]	Item no.	Designation
②	Guide roller	50	30	BSG 10/35 E G28	0.125	86400161	ULR BSG 10/35 E
①	Drive roller	100	30	BSG 10/35 E G28	0.250	86400162	ATR BSG 10/35 E
	Drive roller, soft	100	30	BSG 10/35 E G28	0.250	86400170	ATR-W BSG 10/35 E
②	Guide roller	50	40	BSG 10/50 E G28	0.145	86400157	ULR BSG 10/50 E
①	Drive roller	100	40	BSG 10/50 E G28	0.300	86400146	ATR BSG 10/50 E
	Drive roller, soft	100	40	BSG 10/50 E G28	0.300	86400171	ATR-W BSG 10/50 E



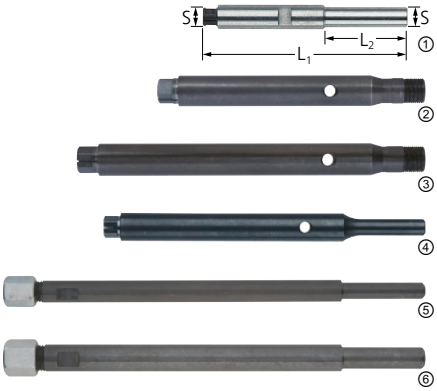
Extensions for drive spindles, metric version

Allow access to difficult-to-reach areas and are clamped into the collet of the machine (air or electric grinder) or into the flexible shaft handpiece.

Special features:

- Cost-effective alternative to customized burrs and mounted points with long shanks.

Image	Max. rotational speed [RPM]	Shank mounting dia. S [mm]	Tool mounting [mm]	Total length L_1 [mm]	Mounting pin length L_2 [mm]	Max. spindle dia. D [mm]	Incl. collet dia. [mm]	Collet group	Net weight [kg]	Item no.	Designation
①	44,000	6	3	76	30	9.5	3	14	0.028	87100359	SPV 50-3 S6
		8	3	78	30	9.5	3	14	0.035	87100356	SPV 50-3 S8
②	20,000	SPG6	6	104	Special	12	6	10	0.073	87100728	SPV 75-6 SPG6
③	20,000	6	6	58	18	12	6	10	0.025	87100069	SPV 36-6 S6
		8	6	95	30	12	6	10	0.055	87100365	SPV 50-6 S8
				120	30	12	6	10	0.076	87100358	SPV 75-6 S8
④	20,000	SPG6	6	129	Special	12	6	10	0.096	87101237	SPV 100-6 SPG6
⑤	20,000	8	6	144	30	12	6	10	0.100	87100357	SPV 100-6 S8
⑥	10,000	6	3	150	30	11.5	-	-	0.055	87100362	SPV 150-3 S6
⑦	10,000	8	6	150	30	13.5	-	-	0.082	87100363	SPV 150-6 S8
⑧	10,000	8	8	150	30	15.9	-	-	0.110	87100134	SPV 150-8 S8



Extensions for drive spindles, imperial version

Allow access to difficult-to-reach areas and are clamped into the collet of the machine (air or electric grinder) or into the flexible shaft handpiece.

Special features:

- Cost-effective alternative to customized burrs and mounted points with long shanks.

Image	Max. rotational speed [RPM]	Shank mounting dia. S [inch]	Tool mounting [inch]	Total length L_1 [inch]	Mounting pin length L_2 [inch]	Max. spindle dia. D [inch]	Incl. collet dia. [mm]	Collet group	Net weight [kg]	Item no.	Designation
①	44,000	1/4	1/8	2.99	1.18	0.37	1/8	14	0.028	89912000	SPV 50-1/8 S1/4
②	20,000	SPG6	1/4	4.09	Special	0.47	1/4	10	0.073	89912001	SPV 75-1/4 SPG6
		3/8	1/4	4.72	1.18	0.47	1/4	10	0.077	89912002	SPV 75-1/4 S3/8
③	20,000	SPG6	1/4	5.08	Special	0.47	1/4	10	0.096	89912003	SPV 100-1/4 SPG6
④	20,000	3/8	1/4	5.67	1.18	0.47	1/4	10	0.100	89912004	SPV 100-1/4 S3/8

Continued on next page

Image	Max. rotational speed [RPM]	Shank mounting dia. S [inch]	Tool mounting [inch]	Total length L_1 [inch]	Mounting pin length L_2 [inch]	Max. spindle dia. D [inch]	Incl. collet dia. [mm]	Collet group	Net weight [kg]	Item no.	Designation
⑤	10,000	1/4	1/8	5.91	1.18	0.45	-	-	0.055	89912005	SPV 150-1/8 S1/4
⑥	10,000	3/8	1/4	5.91	1.18	0.53	-	-	0.082	89912006	SPV 150-1/4 S3/8

Extensions for drive spindles

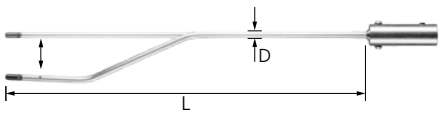
Allows access to difficult-to-reach areas and particularly deep cores. They are clamped into the collet of the machine (air or electric grinder) or into the flexible shaft handpiece. They must also be guided by hand.

Contents:
2 keys (2x DM SW 6/7 mm or 2x DM SW 9/11 mm).

Special features:
- The extension is only suitable for manual applications.
- Cost-effective alternative to customized burrs and mounted points with long shanks.

Image	Max. rotational speed [RPM]	Shank mounting dia. S [mm]	Tool mounting [mm]	Total length L_1 [mm]	Mounting pin length L_2 [mm]	Max. spindle dia. D [mm]	Incl. collet dia. [mm]	Collet group	Net weight [kg]	Item no.	Designation
SPVH 9											
①	25,000	6	3	406	28	9	3	2	0.130	87101310	SPVH9 L300-3 S6
				606	28	9	3	2	0.340	87101457	SPVH9 L500-3 S6
				906	28	9	3	2	0.520	87101502	SPVH9 L800-3 S6
				1,106	28	9	3	2	0.640	87101504	SPVH9 L1000-3 S6
SPVH 13											
②	25,000	6	6	406	28	13	6	10	0.320	87101503	SPVH13 L300-6 S6
		8	6	606	28	13	6	10	0.502	87101280	SPVH13 L500-6 S8
		6	6	906	28	13	6	10	0.770	87101506	SPVH13 L800-6 S6
				1,106	28	13	6	10	0.950	87101309	SPVH13 L1000-6 S6
		8	6	406	28	13	6	10	0.322	87101289	SPVH13 L300-6 S8
		6	6	606	28	13	6	10	0.500	87101429	SPVH13 L500-6 S6
		8	6	906	28	13	6	10	0.772	87101290	SPVH13 L800-6 S8
				1,106	28	13	6	10	0.952	87101372	SPVH13 L1000-6 S8

Rigid extensions STV



Rigid extension STV9 DIN 10

Rigid extension with max. 25,000 RPM for hard-to-reach areas. No risk of overloading the drive motor when used in conjunction with DL motor.

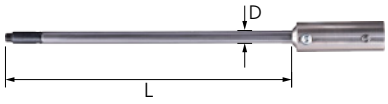
Contents:
1 collet 3 mm (collet group 2), 3 keys (2x DM SW 6/7 mm, 1x SKS 4 mm).

Special features:
- Special lengths and options for workpiece adaptation available on request.
- The potential bending point and the bending radius depend on the STV type and the desired bend.
- Curved types available as from a minimum length of 500 mm.

Dimensions dia. x length [mm]	max. bending radius [mm]	Net weight [kg]	Item no.	Designation
9 x 300	150	0.430	80900330	STV9 L300
9 x 500	150	0.520	80900335	STV9 L500

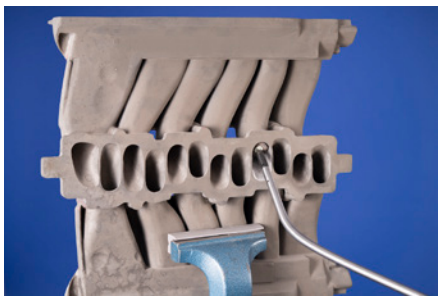
Continued on next page

Dimensions dia. x length [mm]	max. bending radius [mm]	Net weight [kg]	Item no.	Designation
9 x 800	150	0.640	80900340	STV9 L800
9 x 1,000	150	0.720	80900345	STV9 L1000



Rigid extension STV13 DIN 10

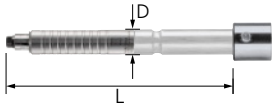
Rigid extension with max. 25,000 RPM for hard-to-reach areas. No risk of overloading the drive motor when used in conjunction with DL motor.



Contents:
1 collet 6 mm (collet group 10), 3 keys (2x DM SW 9/11 mm, 1x SKS 4 mm).

Special features:
- Special lengths and options for workpiece adaptation available on request.
- The potential bending point and the bending radius depend on the STV type and the desired bend.
- Curved types available as from a minimum length of 500 mm.

Dimensions dia. x length [mm]	max. bending radius [mm]	Net weight [kg]	Item no.	Designation
13 x 300	150	0.520	80900218	STV13 L300
13 x 500	150	0.670	80900232	STV13 L500
13 x 800	150	0.890	80900305	STV13 L800
13 x 1,000	150	1.040	80900310	STV13 L1000



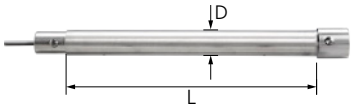
Rigid extension STV20 DIN 10

Rigid extension for hard-to-reach areas. No risk of overloading the drive motor when used in conjunction with DL motor.

Contents:
1 collet 6 mm (collet group 6), 2 keys (1x EM SW 11 mm, 1x EM SW 12 mm), handpiece HA 4 G16/G22 STV.

Special features:
- Special lengths and options for workpiece adaptation available on request.
- The potential bending point and the bending radius depend on the STV type and the desired bend.
- Curved types available as from a minimum length of 500 mm.

Sliding coupling [G]	Dimensions dia. x length [mm]	max. bending radius [mm]	Matching handpiece	Net weight [kg]	Item no.	Designation
16/22	20 x 200	-	HA 4 G16/G22 STV	0.400	80900351	STV20 L 200
	20 x 400	-	HA 4 G16/G22 STV	0.630	80900352	STV20 L 400
	20 x 600	150	HA 4 G16/G22 STV	0.890	80900353	STV20 L 600



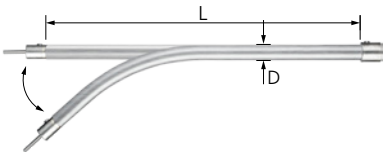
Rigid extension STV27 DIN 10

Rigid extension for hard-to-reach areas. No risk of overloading the drive motor when used in conjunction with DL motor.

Special features:
- Special lengths and options for workpiece adaptation available on request.
- The potential bending point and the bending radius depend on the STV type and the desired bend.
- Curved types available as from a minimum length of 500 mm.

Sliding coupling [G]	Dimensions dia. x length [mm]	max. bending radius [mm]	Matching handpiece	Net weight [kg]	Item no.	Designation
22	27 x 250	-	HA 7 G22 STV, WHA 7 G22 STV	0.550	80900354	STV27 L 250
	27 x 500	250	HA 7 G22 STV, WHA 7 G22 STV	0.930	80900355	STV27 L 500

Drive systems with DIN 10/DIN 15
Rigid extensions STV



Rigid extension STV33 DIN 10

Rigid extension for hard-to-reach areas. No risk of overloading the drive motor when used in conjunction with DL motor.

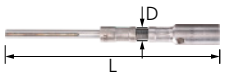
Special features:
- Special lengths and options for workpiece adaptation available on request.
- The potential bending point and the bending radius depend on the STV type and the desired bend.
- Curved types available as from a minimum length of 500 mm.

Sliding coupling [G]	Dimensions dia. x length [mm]	max. bending radius [mm]	Matching handpiece	Net weight [kg]	Item no.	Designation
28	33 x 250	-	HA 10 G28 STV, HA 12 G28 STV, WHA 10 G28 STV	1.025	80900356	STV33 L 250
	33 x 500	300	HA 10 G28 STV, HA 12 G28 STV, WHA 10 G28 STV	2.100	80900357	STV33 L 500
	33 x 1,000	300	HA 10 G28 STV, HA 12 G28 STV, WHA 10 G28 STV	3.250	80900358	STV33 L 1000

Direct connection DA DIN 10

For direct (rigid) connection of handpieces with the sliding coupling (G) to flexible shaft drive motors with DIN 10 connection. Can be used as shortest rigid extension.

Sliding coupling [G]	Dimensions dia. x length [mm]	Matching handpiece	Net weight [kg]	Item no.	Designation
22	30 x 90	HA 7 G22 STV, WHA 7 G22 STV	0.204	87100623	DA 27 DIN 10/G22
28	30 x 100	HA 10 G28 STV, HA 12 G28 STV, WHA 10 G28 STV	0.305	80900029	DA 33 DIN 10/G28



Replacement core DIN 10

Pre-assembled replacement core for the direct connection (DA).

Sliding coupling [G]	Dimensions dia. x length [mm]	Net weight [kg]	Item no.	Designation
22	7 x 125	0.035	80900244	SE DA 27 DIN 10/G22
28	12 x 153	0.107	80900088	SE DA 33 DIN 10/G28

Handpieces for rigid extensions

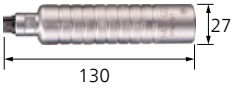
Handpiece HA 4 G16/G22 STV for rigid extensions

When combined with air-power and steplessly speed-adjustable electric motors, the ideal solution for applications in hard-to-access workpieces, e.g. during cleaning or milling work. Can be adapted to the workpiece geometry.

Contents:
1 collet 6 mm (collet group 6), 2 keys (1x EM SW 11 mm, 1x EM SW 12 mm).

Special features:
- Robust INOX version for use with rigid extensions. Can be connected to all flexible shafts with G16/G22 sliding coupling.

Max. rotational speed [RPM]	Handpiece-side coupling G / dia. [mm]	Dimensions dia. x length [mm]	Collet group	Net weight [kg]	Item no.	Designation
25,000	16 / 22	20 x 120	6	0.135	86200039	HA 4 G16/G22 STV



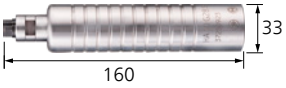
Handpiece HA 7 G22 STV for rigid extensions

When combined with air-power and steplessly speed-adjustable electric motors, the ideal solution for applications in hard-to-access workpieces, e.g. during cleaning or milling work. Can be adapted to the workpiece geometry.

Contents:
1 collet 6 mm (collet group 6), 2 keys (1x EM SW 11 mm, 1x EM SW 14 mm).

Special features:
- Robust INOX version for use with rigid extensions. Can be connected to all flexible shafts with G22 sliding coupling.

Max. rotational speed [RPM]	Handpiece-side coupling G / dia. [mm]	Dimensions dia. x length [mm]	Collet group	Net weight [kg]	Item no.	Designation
25,000	22 / 22	27 x 130	6	0.259	86200040	HA 7 G22 STV



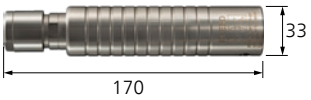
Handpiece HA 10 G28 STV for rigid extensions

When combined with air-power and steplessly speed-adjustable electric motors, the ideal solution for applications in hard-to-access workpieces, e.g. during cleaning or milling work. Can be adapted to the workpiece geometry.

Contents:
1 collet 6 mm (collet group 6), 2 keys (1x EM SW 11 mm, 1x EM SW 15 mm).

Special features:
- Robust INOX version for use with rigid extensions. Can be connected to all flexible shafts with G28 sliding coupling.

Max. rotational speed [RPM]	Handpiece-side coupling G / dia. [mm]	Dimensions dia. x length [mm]	Collet group	Net weight [kg]	Item no.	Designation
18,000	28 / 28	33 x 160	6	0.396	86200041	HA 10 G28 STV



Handpiece HA 12 G28 STV for rigid extensions

When combined with air-power and steplessly speed-adjustable electric motors, the ideal solution for applications in hard-to-access workpieces, e.g. during cleaning or milling work. Can be adapted to the workpiece geometry.

Contents:
1 collet 6 mm (collet group 12), 2 keys (DM SW 20/22 mm).

Special features:
- Robust INOX version for use with rigid extensions. Can be connected to all flexible shafts with G28 sliding coupling.

Max. rotational speed [RPM]	Handpiece-side coupling G / dia. [mm]	Dimensions dia. x length [mm]	Collet group	Net weight [kg]	Item no.	Designation
18,000	28 / 28	33 x 170	12	0.512	86200042	HA 12 G28 STV

Angle handpiece WHA 7 90° G22 STV for rigid extensions

When combined with air-power and steplessly speed-adjustable electric motors, the ideal solution for applications in hard-to-access workpieces, e.g. during cleaning or milling work. Can be adapted to the workpiece geometry.

Contents:
1 collet 6 mm (collet group 6), 2 keys (1x EM SW 11 mm, 1x EM SW 14 mm).

Special features:
- Robust INOX version for use with rigid extensions. Can be connected to all flexible shafts with G22 sliding coupling.

Max. rotational speed [RPM]	Handpiece-side coupling G / dia. [mm]	Dimensions dia. x length [mm]	Transmission ratio	Collet group	Net weight [kg]	Item no.	Designation
17,100	22 / 22	67 x 165	1:1	6	0.808	86300131	WHA 7 90° G22 STV

Angle handpiece WHA 10 90° G28 STV for rigid extensions

When combined with air-power and steplessly speed-adjustable electric motors, the ideal solution for applications in hard-to-access workpieces, e.g. during cleaning or milling work. Can be adapted to the workpiece geometry.

Contents:
1 collet 6 mm (collet group 6), 2 keys (1x EM SW 11 mm, 1x EM SW 14 mm).

Special features:
- Robust INOX version for use with rigid extensions. Can be connected to all flexible shafts with G28 sliding coupling.

Max. rotational speed [RPM]	Handpiece-side coupling G / dia. [mm]	Dimensions dia. x length [mm]	Transmission ratio	Collet group	Net weight [kg]	Item no.	Designation
17,100	28 / 28	67 x 165	1:1	6	0.851	86300132	WHA 10 90° G28 STV

DL motors DIN 10 for rigid extensions

4 Oil /min

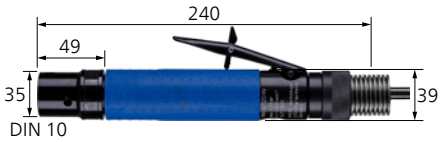
PMA 4/220 HV

Air-power motor with exhaust directed to the rear and dead man's switch using safety lever valve for rigid extensions with DIN 10 connection.

Contents:
1 m exhaust hose and 2.5 m air supply hose with 1/4" male threaded connection, threaded quick coupling (STGI), 2 keys (STS D 4 mm).

Special features:
- Very powerful with a compact design.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Connection coupling [DIN]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
22,000	440	0.98	0.87	10	8	0.913	80703306	PMA 4/220 HV



4 Oil /min

PMA 4/120 HV

Air-power motor with exhaust directed to the rear and dead man's switch using safety lever valve for rigid extensions with DIN 10 connection. With constant power delivery due to the centrifugal governor.

Contents:
1 m exhaust hose and 2.5 m air supply hose with 1/4" male threaded connection, threaded quick coupling (STGI), 2 keys (STS D 4 mm).

Special features:
- Very powerful with a compact design.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Connection coupling [DIN]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
12,000	370	0.5	0.87	10	8	0.995	80703307	PMA 4/120 HV

7 Oil /min

PMA 10/200 HV

Powerful air-power motor with exhaust directed to the rear and dead man's switch using safety lever valve for rigid extensions with motor connection DIN 10.

Contents:
1 m exhaust hose and 2.5 m air supply hose with 1/2" male threaded connection, 2 keys (STS D 4 mm).

Special features:
- The highest rotational speed in this power range.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Connection coupling [DIN]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
20,000	1,000	1.38	1.1	10	13	1.200	80703135	PMA 10/200 HV

Drive systems with DIN 10/DIN 15

DL motors DIN 10 for rigid extensions

7 Oil /min

PMA 10/160 HV

Powerful air-power motor with exhaust directed to the rear and dead man's switch using safety lever valve for rigid extensions with motor connection DIN 10.

Contents:
1 m exhaust hose and 2.5 m air supply hose with 1/2" male threaded connection, 2 keys (STS D 4 mm).

Special features:
- With constant power delivery due to the centrifugal governor.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Connection coupling [DIN]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
16,000	1,000	0.7	0.9	10	13	1.200	80703140	PMA 10/160 HV

7 Oil /min

PMA 10/120 HV

Powerful air-power motor with exhaust directed to the rear and dead man's switch using safety lever valve for rigid extensions with motor connection DIN 10.

Contents:
1 m exhaust hose and 2.5 m air supply hose with 1/2" male threaded connection, 2 keys (STS D 4 mm).

Special features:
- With constant power delivery due to the centrifugal governor.

Rotational speed [RPM]	Power output [watts]	Air consumption at idle [m³/min]	Air consumption under load [m³/min]	Connection coupling [DIN]	Air supply hose internal dia. [mm]	Net weight [kg]	Item no.	Designation
12,000	950	0.5	0.9	10	13	1.200	80703150	PMA 10/120 HV

EL motors DIN 10 for rigid extensions

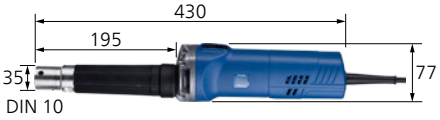
EMER 8/280

Electric motor for rigid extensions with DIN 10 motor connection. With stepless rotational speed control and digital electronics for constant rotational speed.

Contents:
4 m power cable with mains connector, 2 keys (STS D 4 mm).

Special features:
- Overload protection.
- Smooth start-up to protect people, tools and the drive.

Rotational speed range [RPM]	Power consumption [watts]	Power output [watts]	Voltage [volts] 50–60 Hz	Connection [DIN]	Net weight [kg]	Item no.	Designation
28,000 – 8,500	750	410	230	10	2.030	83700330	EMER 8/280



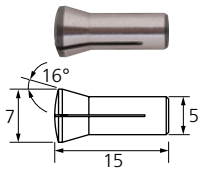
EMER 8/90

Electric motor for rigid extensions with DIN 10 motor connection. With stepless rotational speed control and digital electronics for constant rotational speed.

Contents:
4 m power cable with mains connector, 2 keys (STS D 4 mm).

Special features:
- Overload protection.
- Smooth start-up to protect people, tools and the drive.

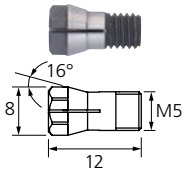
Rotational speed range [RPM]	Power consumption [watts]	Power output [watts]	Voltage [volts] 50–60 Hz	Connection [DIN]	Net weight [kg]	Item no.	Designation
9,000 – 2,500	710	410	230	10	2.030	83700340	EMER 8/90



Collet group 1

Plug-in collet with increased clamping force for reliable use with a union nut.

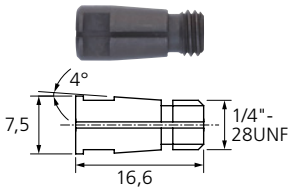
Diameter [mm]	Diameter [inch]	Net weight [kg]	Item no.	Designation
2.34	-	0.002	91491301	SPZ 91491301 (2,34 mm)
3	-	0.002	91491302	SPZ 91491302 (3 mm)
-	3/32	0.002	91491307	SPZ 91491307 (3/32")
	1/8	0.002	91491303	SPZ 91491303 (1/8")



Collet group 2

Screw-in collet with small diameter for use in narrow working areas.

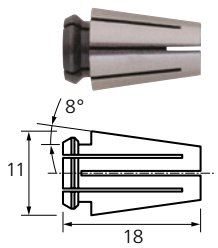
Diameter [mm]	Diameter [inch]	Net weight [kg]	Item no.	Designation
2.34	-	0.001	94701604	SPZ 94701604 (2,34 mm)
3	-	0.001	94701601	SPZ 94701601 (3 mm)
-	3/32	0.001	94701603	SPZ 94701603 (3/32")
	1/8	0.001	94701602	SPZ 94701602 (1/8")



Collet group 3

Screw-in collet with small diameter for use in narrow working areas.

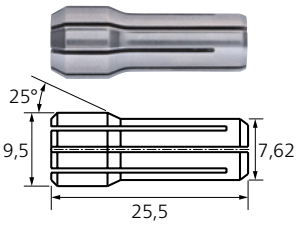
Diameter [mm]	Diameter [inch]	Net weight [kg]	Item no.	Designation
3	-	0.003	90000273	SPZ 90000273 (3 mm)
-	1/8	0.003	90000282	SPZ 90000282 (1/8")



Collet group 4

Plug-in collet with increased clamping force for reliable use with a union nut.

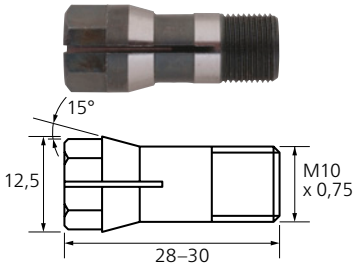
Diameter [mm]	Diameter [inch]	Net weight [kg]	Item no.	Designation
3	-	0.005	95771703	SPZ 95771703 (3 mm)
6	-	0.003	95771701	SPZ 95771701 (6 mm)
-	1/8	0.005	95771704	SPZ 95771704 (1/8")
	1/4	0.003	95771702	SPZ 95771702 (1/4")



Collet group 5

Plug-in collet with increased clamping force for reliable use with a union nut.

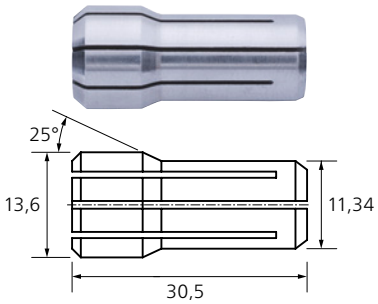
Diameter [mm]	Diameter [inch]	Net weight [kg]	Item no.	Designation
3	1/8	0.004	90000339	SPZ 90000339 (3 mm, 1/8")
6	-	0.003	90000340	SPZ 90000340 (6 mm)
-	1/4	0.004	90000301	SPZ 90000301 (1/4")



Collet group 6

Screw-in collet with small diameter for use in narrow working areas.

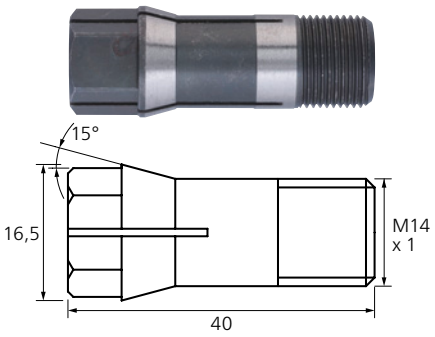
Diameter [mm]	Diameter [inch]	Net weight [kg]	Item no.	Designation
3	-	0.013	95032503	SPZ 95032503 (3 mm)
5	-	0.012	95032506	SPZ 95032506 (5 mm)
6	-	0.012	95032501	SPZ 95032501 (6 mm)
8	-	0.007	95032517	SPZ 95032517 (8 mm)
-	3/32	0.007	95032516	SPZ 95032516 (3/32")
	1/8	0.013	95032504	SPZ 95032504 (1/8")
	1/4	0.012	95032502	SPZ 95032502 (1/4")



Collet group 7

Plug-in collet with increased clamping force for reliable use with a union nut.

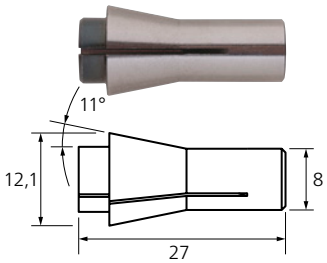
Diameter [mm]	Diameter [inch]	Net weight [kg]	Item no.	Designation
3	1/8	0.015	90000145	SPZ 90000145 (3 mm, 1/8")
6	-	0.015	90000123	SPZ 90000123 (6 mm)
8	-	0.015	90000143	SPZ 90000143 (8 mm)
-	1/4	0.015	90000144	SPZ 90000144 (1/4")
	3/8	0.015	90000100	SPZ 90000100 (3/8")



Collet group 8

Screw-in collet with small diameter for use in narrow working areas.

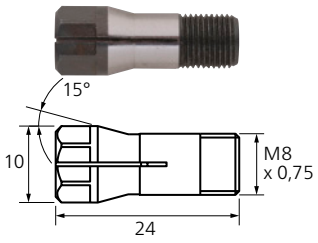
Diameter [mm]	Diameter [inch]	Net weight [kg]	Item no.	Designation
6	-	0.026	95203402	SPZ 95203402 (6 mm)
8	-	0.026	95203405	SPZ 95203405 (8 mm)
10	-	0.026	95203407	SPZ 95203407 (10 mm)
-	1/4	0.026	95203403	SPZ 95203403 (1/4")
	3/8	0.021	95203409	SPZ 95203409 (3/8")



Collet group 9

Plug-in collet with increased clamping force for reliable use with a union nut.

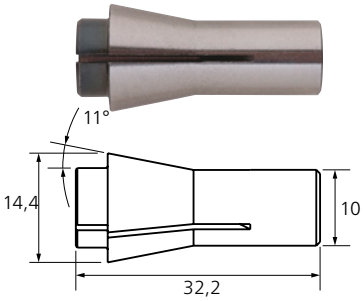
Diameter [mm]	Diameter [inch]	Net weight [kg]	Item no.	Designation
2.34	3/32	0.010	91490009	SPZ 91490009 (2,34 mm, 3/32")
3	-	0.010	91490011	SPZ 91490011 (3 mm)
5	-	0.008	91490016	SPZ 91490016 (5 mm)
6	-	0.008	91490018	SPZ 91490018 (6 mm)
-	1/8	0.010	91490019	SPZ 91490019 (1/8")
	1/4	0.008	91490020	SPZ 91490020 (1/4")



Collet group 10

Screw-in collet with small diameter for use in narrow working areas.

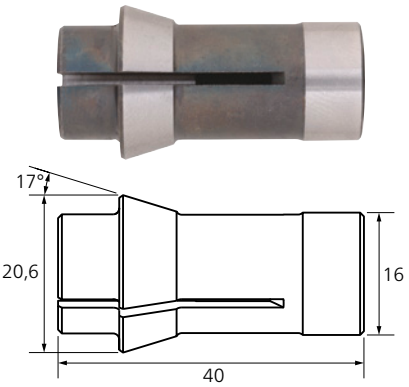
Diameter [mm]	Diameter [inch]	Net weight [kg]	Item no.	Designation
3	-	0.006	95766301	SPZ 95766301 (3 mm)
5	-	0.006	95766304	SPZ 95766304 (5 mm)
6	-	0.006	95766303	SPZ 95766303 (6 mm)
-	1/8	0.006	95766302	SPZ 95766302 (1/8")
	1/4	0.006	95766351	SPZ 95766351 (1/4")



Collet group 11

Plug-in collet with increased clamping force for reliable use with a union nut.

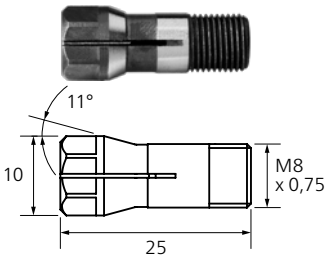
Diameter [mm]	Diameter [inch]	Net weight [kg]	Item no.	Designation
2.34	3/32	0.017	91490909	SPZ 91490909 (2,34 mm, 3/32")
3	-	0.017	91490912	SPZ 91490912 (3 mm)
5	-	0.017	91490917	SPZ 91490917 (5 mm)
6	-	0.015	91490919	SPZ 91490919 (6 mm)
8	-	0.013	91490923	SPZ 91490923 (8 mm)
-	1/8	0.017	91490927	SPZ 91490927 (1/8")
	1/4	0.013	91490926	SPZ 91490926 (1/4")



Collet group 12

Plug-in collet with increased clamping force for reliable use with a union nut.

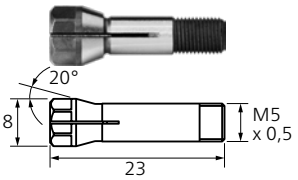
Diameter [mm]	Diameter [inch]	Net weight [kg]	Item no.	Designation
5	-	0.036	91490203	SPZ 91490203 (5 mm)
6	-	0.035	91490204	SPZ 91490204 (6 mm)
8	-	0.028	91490206	SPZ 91490206 (8 mm)
10	-	0.025	91490208	SPZ 91490208 (10 mm)
12	-	0.024	91490209	SPZ 91490209 (12 mm)
-	1/4	0.037	91490210	SPZ 91490210 (1/4")
	3/8	0.030	91490211	SPZ 91490211 (3/8")



Collet group 13

Screw-in collet with small diameter for use in narrow working areas.

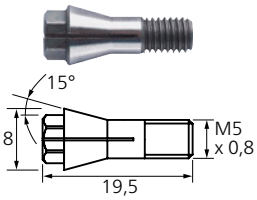
Diameter [mm]	Diameter [inch]	Net weight [kg]	Item no.	Designation
2.34	3/32	0.006	90101823	SPZ 90101823 (2,34 mm, 3/32")
3	-	0.006	90101830	SPZ 90101830 (3 mm)
5	-	0.006	90101850	SPZ 90101850 (5 mm)
6	-	0.006	90101860	SPZ 90101860 (6 mm)
-	1/8	0.006	90101818	SPZ 90101818 (1/8")
	1/4	0.006	90101814	SPZ 90101814 (1/4")



Collet group 14

Screw-in collet with small diameter for use in narrow working areas.

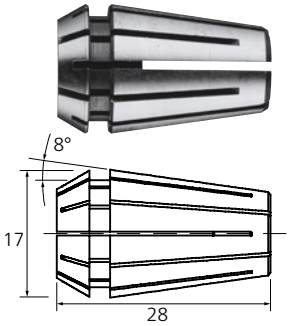
Diameter [mm]	Diameter [inch]	Net weight [kg]	Item no.	Designation
2.34	3/32	0.003	90110423	SPZ 90110423 (2,34 mm, 3/32")
3	-	0.003	90110430	SPZ 90110430 (3 mm)
-	1/8	0.003	90110418	SPZ 90110418 (1/8")



Collet group 15

Screw-in collet with small diameter for use in narrow working areas.

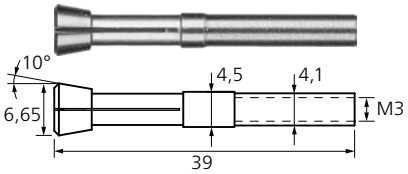
Diameter [mm]	Diameter [inch]	Net weight [kg]	Item no.	Designation
3	-	0.018	98980000	SPZ 98980000 (3 mm)
-	3/32	0.002	98980002	SPZ 98980002 (3/32")
	1/8	0.002	98980001	SPZ 98980001 (1/8")



Collet group 16

Plug-in collet with increased clamping force for reliable use with a union nut.

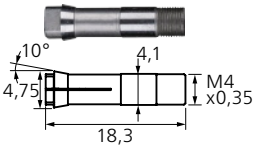
Diameter [mm]	Diameter [inch]	Net weight [kg]	Item no.	Designation
3	-	0.010	98980268	SPZ 98980268 (3 mm)
6	-	0.018	98980163	SPZ 98980163 (6 mm)
8	-	0.018	98980164	SPZ 98980164 (8 mm)
10	-	0.018	98980165	SPZ 98980165 (10 mm)
12	-	0.034	98980269	SPZ 98980269 (12 mm)
-	1/4	0.018	98980166	SPZ 98980166 (1/4")



Collet group 17

Screw-in collet with small diameter for use in narrow working areas.

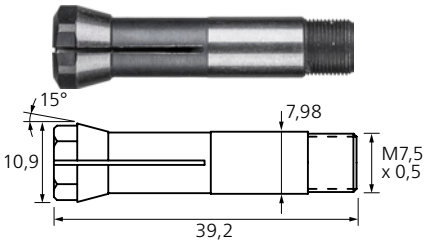
Diameter [mm]	Diameter [inch]	Net weight [kg]	Item no.	Designation
2.35	-	0.002	90014051	SPZ 90014051 (2,35 mm)
3	-	0.002	90014050	SPZ 90014050 (3 mm)
-	1/8	0.002	90014052	SPZ 90014052 (1/8")



Collet group 18

Screw-in collet with small diameter for use in narrow working areas.

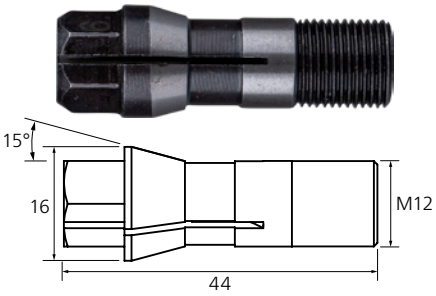
Diameter [mm]	Diameter [inch]	Net weight [kg]	Item no.	Designation
2.35	-	0.001	90014061	SPZ 90014061 (2,35 mm)
3	-	0.001	90014060	SPZ 90014060 (3 mm)
-	1/8	0.001	90014062	SPZ 90014062 (1/8")



Collet group 19

Screw-in collet with small diameter for use in narrow working areas.

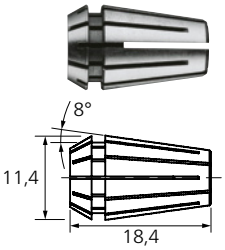
Diameter [mm]	Diameter [inch]	Net weight [kg]	Item no.	Designation
2.35	-	0.011	90014073	SPZ 90014073 (2,35 mm)
3	-	0.011	90014071	SPZ 90014071 (3 mm)
6	-	0.007	90014070	SPZ 90014070 (6 mm)
-	1/8	0.011	90014072	SPZ 90014072 (1/8")
	1/4	0.008	90014074	SPZ 90014074 (1/4")



Collet group 20

Screw-in collet with small diameter for use in narrow working areas.

Diameter [mm]	Diameter [inch]	Net weight [kg]	Item no.	Designation
3	-	0.008	98980262	SPZ 98980262 (3 mm)
6	-	0.018	98980261	SPZ 98980261 (6 mm)
8	-	0.021	98980263	SPZ 98980263 (8 mm)
10	-	0.028	98980264	SPZ 98980264 (10 mm)
-	1/4	0.018	98980265	SPZ 98980265 (1/4")

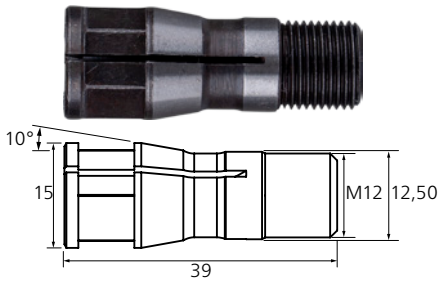


Collet group 21

Plug-in collet with increased clamping force for reliable use with a union nut.

Diameter [mm]	Diameter [inch]	Net weight [kg]	Item no.	Designation
3	-	0.010	98980311	SPZ 98980311 (3 mm)
6	-	0.010	98980310	SPZ 98980310 (6 mm)
-	1/8	0.010	98980398	SPZ 98980398 (1/8")
	1/4	0.010	98980399	SPZ 98980399 (1/4")

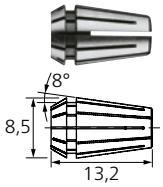
Accessories for tool drives
Collets



Collet group 22

Screw-in collet with small diameter for use in narrow working areas.

Diameter [mm]	Diameter [inch]	Net weight [kg]	Item no.	Designation
3	-	0.024	98960171	SPZ 98960171 (3 mm)
6	-	0.024	98960172	SPZ 98960172 (6 mm)
8	-	0.021	98960173	SPZ 98960173 (8 mm)
-	1/4	0.024	98960170	SPZ 98960170 (1/4")



Collet group 23

Plug-in collet with increased clamping force for reliable use with a union nut.

Diameter [mm]	Diameter [inch]	Net weight [kg]	Item no.	Designation
3	-	0.018	98980660	SPZ 98980660 (3 mm)
-	3/32	0.018	98980661	SPZ 98980661 (3/32")
	1/8	0.018	98980662	SPZ 98980662 (1/8")

Reducing collets and adapter

① ②

Reducing collets and adapter

Reducing collets fit into an existing collet for 6 mm shank tools and are used as adapters for shank tools.

Image	Reducing shank holder	Suitable for	Net weight [kg]	Item no.	Designation
①	from 6 mm to 3 mm diameter	-	0.004	87100162	RZH 63
	from 6 mm to 2.34 mm diameter	-	0.004	87100153	RZH 6234
	Dia. from 6 mm to 4 mm	-	0.004	87101375	RZH 64
②	-	Cordless angle grinder with SBH/SBHR 20, 25, 38, 50	0.006	84205030	AF M5 CD 1/4-20 UNC

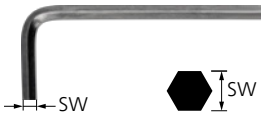
Arbor

① ②

Arbor

PFERD TOOLS offers arbors as accessories.

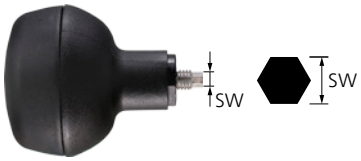
Image	Shank holder	Tool mounting dia. [mm]	Suitable for	Net weight [kg]	Item no.	Designation
①	SPG6	Dia. 6 x 0 – 10	All drives with SPG6	0.035	80810011	BO SPG 6/6 0-10
②	SPG6	Dia. 10 x 0 – 10	All drives with SPG6	0.035	80810012	BO SPG 6/10 0-10



Hexagon L-wrench

Hexagon L-wrench with various widths across flats. Suitable for versatile use.

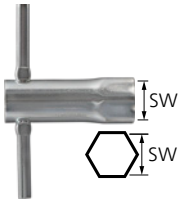
Width across flats SW	Net weight [kg]	Item no.	Designation
2.5 mm	0.003	98980670	SKS size 2,5 mm
	0.004	90200021	SKS SW 2,5 mm
3 mm	0.005	92785501	SKS SW 3 mm
4 mm	0.006	92785502	SKS SW 4 mm
5 mm	0.018	92785503	SKS SW 5 mm
5/32″	0.008	90001869	SKS SW 5/32″



Hexagon handle wrench

Hexagon handle wrench with convenient, round handle.

Width across flats SW	Net weight [kg]	Item no.	Designation
5 mm	0.059	87200313	SKHS size 5 mm



Hexagon socket spanner

Hexagon socket spanner has a hexagon socket.

Width across flats SW	Net weight [kg]	Item no.	Designation
17 mm	0.073	91243601	SKST size 17 mm

Single-head spanner

Single-head spanner with different widths across flats on one end.

Width across flats SW	Net weight [kg]	Item no.	Designation
7 mm	0.008	90001914	EM SW 7 mm
8 mm	0.014	93785706	EM SW 8 mm
9 mm	0.023	95770101	EM SW 9 mm
10 mm	0.026	90000299	EM SW 10 mm
11 mm	0.025	93785701	EM SW 11 mm
12 mm	0.027	98980322	EM SW 12 mm
13 mm	0.061	98960042	EM SW 13 mm
14 mm	0.038	93785703	EM SW 14 mm
15 mm	0.048	98980561	EM size 15 mm
17 mm	0.062	92785611	EM SW 17 mm
22 mm	0.102	93785705	EM SW 22 mm
13/64″	0.022	90000274	EM SW 13/64″
7/16″	0.040	90000377	EM SW 7/16″
9/16″	0.010	90000121	EM SW 9/16″
3/4″	0.015	90000122	EM SW 3/4″

Double open-ended spanner

Double open-ended spanner with widths across flats at both ends.

Width across flats SW 1 / SW 2	Net weight [kg]	Item no.	Designation
4/4 mm	0.005	90014010	DM SW 4/4 mm
6/8 mm	0.025	98980010	DM SW 6/8 mm
10/10 mm	0.020	90014004	DM SW 10/10 mm
20/22 mm	0.149	98980190	DM SW 20/22 mm

Face pin spanner

Face pin wrench with various widths across flats for angle grinders.

Width across flats SW 1 x SW 2	Net weight [kg]	Item no.	Designation
35x5 mm	0.122	91244601	STL SW 35x5 mm
35x5.3 mm	0.048	98960182	STL SW 35x5,3 mm

C-wrench

C-wrench for chisel holding springs (MHF) and for widths across flats from 40 to 42 mm.

Width across flats SW	Length [mm]	Width [mm]	Height [mm]	Net weight [kg]	Item no.	Designation
-	94	18	26.5	0.020	98988410	HS MHF
40-42 mm	170	3.6	-	0.095	87200281	HS 40-42

Allen key

Allen key in various diameters for DIN 10/DIN 15 drive systems.

Diameter D [mm]	Net weight [kg]	Item no.	Designation
2.35	0.003	90014015	STS D2,35mm
2.5	0.006	92792301	STS D 2,5 mm
4	0.015	92792302	STS D 4 mm
6	0.034	92792303	STS D 6 mm

Key with hexalobular head

The key with hexalobular head enables high power transmission thanks to its positive connection.

Diameter D [mm]	Net weight [kg]	Item no.	Designation
3.26	0.053	87200263	SDR TX 15K

Collet key

Key for force-controlled securing and changing of collets in group 18.

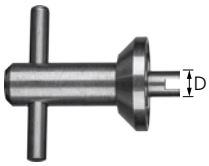
Net weight [kg]	Item no.	Designation
0.015	90014014	SPS VK 4 mm

New item

Lock sleeve

Lock sleeve for tool changes on micro motor and RCK angle handpieces with a slim and light design.

Diameter D [mm]	Net weight [kg]	Item no.	Designation
13.5	0.032	90014003	MIM ARH



Lock spanner

Lock spanner for reliable collet changes for micro motor and RCK handpieces with a slim and light design.

Diameter D [mm]	Net weight [kg]	Item no.	Designation
6.6	0.040	90014009	MIM ARS HA D 23,5

Collet key

Collet key for reliable collet changes for micro motor and RCK handpieces with a slim and light design.

Diameter D [mm]	Net weight [kg]	Item no.	Designation
7	0.022	90014008	MIM SPS DK D 7

Double pin spanner

Double pin spanner for reliable collet changes for micro motor and RCK handpieces with a slim and light design.

Width across flats SW	Diameter D [mm]	Net weight [kg]	Item no.	Designation
12.35 mm	2.35	0.004	90014011	MIM DSTS SW 11xD 2,4 mm

Maintenance accessories

Special lubricating oil 5 L

Special lubricating oil for air-powered devices with oil mist lubrication.

Contents	Use for	Net weight [kg]	Item no.	Designation
Special lubricating oil 1 L	Oil mist device	1.004	80900014	1 L ONG OEL
Special lubricating oil 5 L	Oil mist device	5.220	80900013	5 L ONG OEL

Maintenance set P-Set BW 4/6

Set for maintaining flexible shafts.

Contents:
1 hose brush BW 4/6 for removing the old grease from the flexible casing, 1x flexible shaft grease FT 4, 2 non-linting cleaning cloths (400 x 330 mm).

Contents	Use for	Net weight [kg]	Item no.	Designation
2 cloths, flexible shaft grease FT 4, hose brush BW 4/6	BW 4, BW 6	0.770	86396005	P-Set BW 4/6

Maintenance set P-Set BW 7

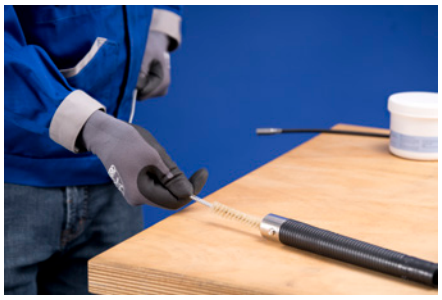
Set for maintaining flexible shafts.

Contents:
1 hose brush BW 7 for removing the old grease from the flexible casing, 1x flexible shaft grease FT 4, 2 non-linting cleaning cloths (400 x 330 mm).

Contents	Use for	Net weight [kg]	Item no.	Designation
2 cloths, flexible shaft grease FT 4, hose brush BW 7	BW 7	0.770	86396007	P-Set BW 7

Maintenance set P-Set BW 10/12

Set for maintaining flexible shafts.



Contents:
1 hose brush BW 10/12 for removing the old grease from the flexible casing, 1x flexible shaft grease FT 4, 2 non-linting cleaning cloths (400 x 330 mm).

Contents	Use for	Net weight [kg]	Item no.	Designation
2 cloths, flexible shaft grease FT 4, hose brush BW 10/12	BW 10, BW 12	0.770	86396006	P-Set BW 10/12

Flexible shaft grease 450 g

Flexible shaft grease with special lubrication and adhesive properties for flexible shafts. After approximately 100 operating hours, the core of the flexible shaft must be re-lubricated. Clean the core and casing and reapply the special shaft grease to the core.

Contents	Use for	Net weight [kg]	Item no.	Designation
Flexible shaft grease 450 g	Flexible shafts	0.450	86396010	FT 4

Special grease 100 g

Special grease for re-greasing angle heads.

Contents	Use for	Net weight [kg]	Item no.	Designation
Special grease 100 g	Ball bearing, angle head	0.100	84900498	FT 5

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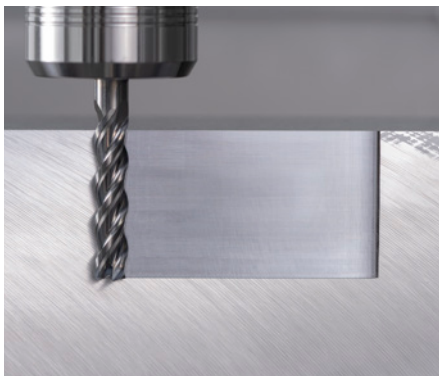

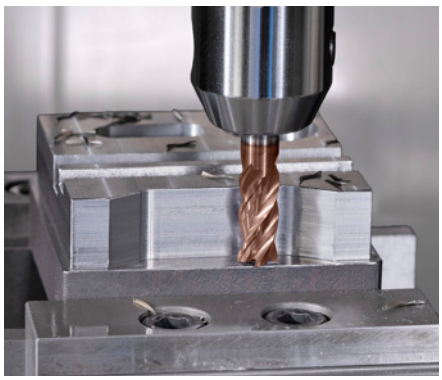

Files

Item number	Abbreviation	Description	Image	Catalogue	Page
13280161	BSF 150-12,5 Z2	Brake calliper file 200 mm x 12.5 mm milled cut with grip		1	25
13280160	BSF 150-9,8 Z2	Brake calliper file 200 mm x 9.8 mm milled cut on one side with grip		1	25
12704084	266/16 P 160 H2	Precision needle file set 12-piece in plastic pouch 160mm Swiss cut 2, medium-fine		1	60
Milling, drilling and countersinking tools					
21201284	ZYA 0313/3 Z3 PLUS HC-FEP	Tungsten carbide high-performance burr cylindrical ZYA dia. 03x13 mm shank dia. 3 mm Z3P HICOAT coated universal medium cross cut		2	15
21201254	ZYA 0313/3 Z5 HC-FEP	Tungsten carbide high-performance burr cylindrical ZYA dia. 03x13 mm shank dia. 3 mm Z5 HICOAT coated universal fine		2	15
21201484	ZYA 0613/3 Z3 PLUS HC-FEP	Tungsten carbide high-performance burr cylindrical ZYA dia. 06x13 mm shank dia. 3 mm Z3P HICOAT coated universal medium cross cut		2	15
21201454	ZYA 0613/3 Z5 HC-FEP	Tungsten carbide high-performance burr cylindrical ZYA dia. 06x13 mm shank dia. 3 mm Z5 HICOAT coated universal fine		2	15
21101607	ZYA 0616/6 Z3 HC-FEP	Tungsten carbide high-performance burr cylindrical ZYA dia. 10x20 mm shank dia. 6 mm Z3 HICOAT coated universal medium		2	15

Milling, drilling and countersinking tools

Item number	Abbreviation	Description	Image	Catalogue	Page
21101657	ZYA 0616/6 Z5 HC-FEP	Tungsten carbide high-performance burr cylindrical ZYA dia. 06x16 mm shank dia. 6 mm Z5 HICOAT coated universal fine		2	15
21102107	ZYA 1020/6 Z3 HC-FEP	Tungsten carbide high-performance burr cylindrical ZYA dia. 06x16 mm shank dia. 6 mm Z3 HICOAT coated universal medium		2	15
21102157	ZYA 1020/6 Z5 HC-FEP	Tungsten carbide high-performance burr cylindrical ZYA dia. 10x20 mm shank dia. 6 mm Z5 HICOAT coated universal fine		2	15
21101907	ZYA 1225/6 Z3 HC-FEP	Tungsten carbide high-performance burr cylindrical ZYA dia. 12x25 mm shank dia. 6 mm Z3 HICOAT coated universal medium		2	15
21101957	ZYA 1225/6 Z5 HC-FEP	Tungsten carbide high-performance burr cylindrical ZYA dia. 12x25 mm shank dia. 6 mm Z5 HICOAT coated universal fine		2	15
21200285	ZYAS 0313/3 Z3 PLUS HC-FEP	Tungsten carbide high-performance burr cylindrical ZYAS end cut dia. 06x07 mm shank dia. 3 mm Z3P HICOAT coated universal medium cross cut		2	16
21200254	ZYAS 0313/3 Z5 HC-FEP	Tungsten carbide high-performance burr cylindrical ZYAS end cut dia. 03x13 mm shank dia. 3 mm Z5 HICOAT coated universal fine		2	16
21200384	ZYAS 0607/3 Z3 PLUS HC-FEP	Tungsten carbide high-performance burr cylindrical ZYAS end cut dia. 03x13 mm shank dia. 3 mm Z3P HICOAT coated universal medium cross cut		2	16
21200485	ZYAS 0613/3 Z3 PLUS HC-FEP	Tungsten carbide high-performance burr cylindrical ZYAS end cut dia. 06x13 mm shank dia. 3 mm Z3P HICOAT coated universal medium cross cut		2	16

Milling, drilling and countersinking tools

Item number	Abbreviation	Description	Image	Catalogue	Page
21200454	ZYAS 0613/3 Z5 HC-FEP	Tungsten carbide high-performance burr cylindrical ZYAS end cut dia. 06x13 mm shank dia. 3 mm Z5 HICOAT coated universal fine		2	16
21100207	ZYAS 0616/6 Z3 HC-FEP	Tungsten carbide high-performance burr cylindrical ZYAS end cut dia. 06x16 mm shank dia. 6 mm Z3 HICOAT coated universal medium		2	16
21100257	ZYAS 0616/6 Z5 HC-FEP	Tungsten carbide high-performance burr cylindrical ZYAS end cut dia. 06x16 mm shank dia. 6 mm Z5 HICOAT coated universal fine		2	16
21100707	ZYAS 1020/6 Z3 HC-FEP	Tungsten carbide high-performance burr cylindrical ZYAS end cut dia. 10x20 mm shank dia. 6 mm Z3 HICOAT coated universal medium		2	16
21100757	ZYAS 1020/6 Z5 HC-FEP	Tungsten carbide high-performance burr cylindrical ZYAS end cut dia. 10x20 mm shank dia. 6 mm Z5 HICOAT coated universal fine		2	17
21100507	ZYAS 1225/6 Z3 HC-FEP	Tungsten carbide high-performance burr cylindrical ZYAS end cut dia. 12x25 mm shank dia. 6 mm Z3 HICOAT coated universal medium		2	17
21100557	ZYAS 1225/6 Z5 HC-FEP	Tungsten carbide high-performance burr cylindrical ZYAS end cut dia. 12x25 mm shank dia. 6 mm Z5 HICOAT coated universal fine		2	17
21211085	KUD 0302/3 Z3 PLUS HC-FEP	Tungsten carbide high-performance burr ball KUD dia. 03x02 mm shank dia. 3 mm Z3P HICOAT coated for finishing		2	17
21211054	KUD 0302/3 Z5 HC-FEP	Tungsten carbide high-performance burr ball KUD dia. 03x02 mm shank dia. 3 mm Z5 HICOAT coated universal fine		2	17

Milling, drilling and countersinking tools

PFERD TOOLS

Item number	Abbreviation	Description	Image	Catalogue	Page
21212585	KUD 0403/3 Z3 PLUS HC-FEP	Tungsten carbide high-performance burr ball KUD dia. 04x03 mm shank dia. 3 mm Z3P HICOAT coated for finishing		2	17
21212554	KUD 0403/3 Z5 HC-FEP	Tungsten carbide high-performance burr ball KUD dia. 04x03 mm shank dia. 3 mm Z5 HICOAT coated universal fine		2	17
21213085	KUD 0605/3 Z3 PLUS HC-FEP	Tungsten carbide high-performance burr ball KUD dia. 06x05 mm shank dia. 3 mm Z3P HICOAT coated for finishing		2	17
21213054	KUD 0605/3 Z5 HC-FEP	Tungsten carbide high-performance burr ball KUD dia. 06x05 mm shank dia. 3 mm Z5 HICOAT coated universal fine		2	17
21112537	KUD 0605/6 Z3 HC-FEP	Tungsten carbide high-performance burr ball KUD dia. 06x05 mm shank dia. 6 mm Z3 HICOAT coated universal medium		2	18
21112557	KUD 0605/6 Z5 HC-FEP	Tungsten carbide high-performance burr ball KUD dia. 06x05 mm shank dia. 6 mm Z5 HICOAT coated universal fine		2	18
21112707	KUD 1009/6 Z3 HC-FEP	Tungsten carbide high-performance burr ball KUD dia. 10x09 mm shank dia. 6 mm Z3 HICOAT coated universal medium		2	18
21112757	KUD 1009/6 Z5 HC-FEP	Tungsten carbide high-performance burr ball KUD dia. 10x09 mm shank dia. 6 mm Z5 HICOAT coated universal fine		2	18
21112807	KUD 1210/6 Z3 HC-FEP	Tungsten carbide high-performance burr ball KUD dia. 12x10 mm shank dia. 6 mm Z3 HICOAT coated universal medium		2	18

Milling, drilling and countersinking tools

Item number	Abbreviation	Description	Image	Catalogue	Page
21112857	KUD 1210/6 Z5 HC-FEP	Tungsten carbide high-performance burr ball KUD dia. 12x10 mm shank dia. 6 mm Z5 HICOAT coated universal fine		2	18
21112907	KUD 1614/6 Z3 HC-FEP	Tungsten carbide high-performance burr ball KUD dia. 16x14 mm shank dia. 6 mm Z3 HICOAT coated universal medium		2	18
21112957	KUD 1614/6 Z5 HC-FEP	Tungsten carbide high-performance burr ball KUD dia. 16x14 mm shank dia. 6 mm Z5 HICOAT coated universal fine		2	18
21205185	WRC 0313/3 Z3 PLUS HC-FEP	Tungsten carbide high-perf. burr cylindrical with radius end WRC dia. 3x13 mm shank dia. 3 mm Z3P HICOAT coated universal medium cross cut		2	19
21205154	WRC 0313/3 Z5 HC-FEP	Tungsten carbide high-performance burr cylindrical with radius end WRC dia. 03x13 mm shank dia. 3 mm Z5 HICOAT coated universal fine		2	19
21205285	WRC 0613/3 Z3 PLUS HC-FEP	Tungsten carbide high-perf. burr cylindrical with radius end WRC dia. 6x13 mm shank dia. 3 mm Z3P HICOAT coated universal medium cross cut		2	19
21205254	WRC 0613/3 Z5 HC-FEP	Tungsten carbide high-performance burr cylindrical with radius end WRC dia. 06x13 mm shank dia. 3 mm Z5 HICOAT coated universal fine		2	19
21105007	WRC 0616/6 Z3 HC-FEP	Tungsten carbide high-performance burr cylindrical with radius end WRC dia. 06x16 mm shank dia. 6 mm Z3 HICOAT coated universal medium		2	19
21105057	WRC 0616/6 Z5 HC-FEP	Tungsten carbide high-performance burr cylindrical with radius end WRC dia. 06x16 mm shank dia. 6 mm Z5 HICOAT coated universal fine		2	19

Milling, drilling and countersinking tools

Item number	Abbreviation	Description	Image	Catalogue	Page
21105207	WRC 1020/6 Z3 HC-FEP	Tungsten carbide high-performance burr cylindrical with radius end WRC dia. 10x20 mm shank dia. 6 mm Z3 HICOAT coated universal medium		2	19
21105257	WRC 1020/6 Z5 HC-FEP	Tungsten carbide high-performance burr cylindrical with radius end WRC dia. 10x20 mm shank dia. 6 mm Z5 HICOAT coated universal fine		2	19
21105307	WRC 1225/6 Z3 HC-FEP	Tungsten carbide high-performance burr cylindrical with radius end WRC dia. 12x25 mm shank dia. 6 mm Z3 HICOAT coated universal medium		2	19
21105357	WRC 1225/6 Z5 HC-FEP	Tungsten carbide high-performance burr cylindrical with radius end WRC dia. 12x25 mm shank dia. 6 mm Z5 HICOAT coated universal fine		2	19
21202534	B 0307/3 Z3 PLUS HC-FEP	Tungsten carbide high-performance burr flame B dia. 03x07 mm shank dia. 3 mm Z3P HICOAT coated universal fine		2	20
21202554	B 0307/3 Z5 HC-FEP	Tungsten carbide high-performance burr flame B dia. 03x07 mm shank dia. 3 mm Z5 HICOAT coated universal fine		2	20
21203634	B 0613/3 Z3 PLUS HC-FEP	Tungsten carbide high-performance burr flame B dia. 06x13 mm shank dia. 3 mm Z3P HICOAT coated universal medium cross cut		2	20
21203654	B 0613/3 Z5 HC-FEP	Tungsten carbide high-performance burr flame B dia. 06x13 mm shank dia. 3 mm Z5 HICOAT coated universal fine		2	20
21103307	B 1230/6 Z3 HC-FEP	Tungsten carbide high-performance burr flame B dia. 12x30 mm shank dia. 6 mm Z3 HICOAT coated universal medium		2	20

Item number	Abbreviation	Description	Image	Catalogue	Page
21222585	SPG 0307/3 Z3 PLUS HC-FEP	Tungsten carbide high-performance burr pointed tree SPG dia. 03x07 mm shank dia. 3 mm Z3P HICOAT coated universal medium cross cut		2	21
21222554	SPG 0307/3 Z5 HC-FEP	Tungsten carbide high-performance burr pointed tree SPG dia. 03x07 mm shank dia. 3 mm Z5 HICOAT coated universal fine		2	21
21222685	SPG 0313/3 Z3 PLUS HC-FEP	Tungsten carbide high-performance burr pointed tree SPG dia. 03x13 mm shank dia. 3 mm Z3P HICOAT coated universal medium cross cut		2	21
21222654	SPG 0313/3 Z5 HC-FEP	Tungsten carbide high-performance burr pointed tree SPG dia. 03x13 mm shank dia. 3 mm Z5 HICOAT coated universal fine		2	21
21222785	SPG 0613/3 Z3 PLUS HC-FEP	Tungsten carbide high-performance burr pointed tree SPG dia. 06x13 mm shank dia. 3 mm Z3P HICOAT coated universal medium cross cut		2	21
21222754	SPG 0613/3 Z5 HC-FEP	Tungsten carbide high-performance burr pointed tree SPG dia. 06x13 mm shank dia. 3 mm Z5 HICOAT coated universal fine		2	21
21122507	SPG 0618/6 Z3 HC-FEP	Tungsten carbide high-performance burr pointed tree SPG dia. 06x18 mm shank dia. 6 mm Z3 HICOAT coated universal medium		2	21
21122557	SPG 0618/6 Z5 HC-FEP	Tungsten carbide high-performance burr pointed tree SPG dia. 06x18 mm shank dia. 6 mm Z5 HICOAT coated universal fine		2	21
21122607	SPG 1020/6 Z3 HC-FEP	Tungsten carbide high-performance burr pointed tree SPG dia. 10x20 mm shank dia. 6 mm Z3 HICOAT coated universal medium		2	21

Milling, drilling and countersinking tools

Item number	Abbreviation	Description	Image	Catalogue	Page
21122657	SPG 1020/6 Z5 HC-FEP	Tungsten carbide high-performance burr pointed tree SPG dia. 10x20 mm shank dia. 6 mm Z5 HICOAT coated universal fine		2	21
21122707	SPG 1225/6 Z3 HC-FEP	Tungsten carbide high-performance burr pointed tree SPG dia. 12x25 mm shank dia. 6 mm Z3 HICOAT coated universal medium		2	21
21122757	SPG 1225/6 Z5 HC-FEP	Tungsten carbide high-performance burr pointed tree SPG dia. 12x25 mm shank dia. 6 mm Z5 HICOAT coated universal fine		2	21
21125007	KEL 1020/6 Z3 HC-FEP	Tungsten carbide high-performance burr conical shape KEL dia. 10x20 mm shank dia. 6 mm Z3 HICOAT coated universal medium		2	22
21125207	KEL 1230/6 Z3 HC-FEP	Tungsten carbide high-performance burr conical shape KEL dia. 12x30 mm shank dia. 6 mm Z3 HICOAT coated universal medium		2	22
21125257	KEL 1230/6 Z5 HC-FEP	Tungsten carbide high-performance burr conical shape KEL dia. 12x30 mm shank dia. 6 mm Z5 HICOAT coated universal fine		2	22
21214084	SKM 0307/3 Z3 PLUS HC-FEP	Tungsten carbide high-performance burr conical pointed SKM dia. 03x07 mm shank dia. 3 mm Z3P HICOAT coated for finishing		2	23
21214054	SKM 0307/3 Z5 HC-FEP	Tungsten carbide high-performance burr conical pointed SKM dia. 03x07 mm shank dia. 3 mm Z5 HICOAT coated universal fine		2	23
21214184	SKM 0311/3 Z3 PLUS HC-FEP	Tungsten carbide high-performance burr conical pointed SKM dia. 03x11 mm shank dia. 3 mm Z3P HICOAT coated for finishing		2	23

Item number	Abbreviation	Description	Image	Catalogue	Page
21214154	SKM 0311/3 Z5 HC-FEP	Tungsten carbide high-performance burr conical pointed SKM dia. 03x11 mm shank dia. 3 mm Z5 HICOAT coated universal fine		2	23
21215084	SKM 0613/3 Z3 PLUS HC-FEP	Tungsten carbide high-performance burr conical pointed SKM dia. 06x13 mm shank dia. 3 mm Z3P HICOAT coated for finishing		2	23
21215054	SKM 0613/3 Z5 HC-FEP	Tungsten carbide high-performance burr conical pointed SKM dia. 06x13 mm shank dia. 3 mm Z5 HICOAT coated universal fine		2	23
21115007	SKM 0618/6 Z3 HC-FEP	Tungsten carbide high-performance burr conical pointed SKM dia. 06x18 mm shank dia. 6 mm Z3 HICOAT coated universal medium		2	23
21115057	SKM 0618/6 Z5 HC-FEP	Tungsten carbide high-performance burr conical pointed SKM dia. 06x18 mm shank dia. 6 mm Z5 HICOAT coated universal fine		2	23
21115107	SKM 1020/6 Z3 HC-FEP	Tungsten carbide high-performance burr conical pointed SKM dia. 10x20 mm shank dia. 6 mm Z3 HICOAT coated universal medium		2	23
21115157	SKM 1020/6 Z5 HC-FEP	Tungsten carbide high-performance burr conical pointed SKM dia. 12x25 mm shank dia. 6 mm Z5 HICOAT coated universal fine		2	23
21115207	SKM 1225/6 Z3 HC-FEP	Tungsten carbide high-performance burr conical pointed SKM dia. 12x25 mm shank dia. 6 mm Z3 HICOAT coated universal medium		2	23
21115257	SKM 1225/6 Z5 HC-FEP	Tungsten carbide high-performance burr conical pointed SKM dia. 10x20 mm shank dia. 6 mm Z5 HICOAT coated universal fine		2	23

Milling, drilling and countersinking tools

PFERD TOOLS

Item number	Abbreviation	Description	Image	Catalogue	Page
21217584	RBF 0307/3 Z3 PLUS HC-FEP	Tungsten carbide high-perf. burr tree shape with radius end RBF dia. 03x07 mm shank dia. 3 mm Z3P HICOAT coated universal medium cross cut		2	24
21217554	RBF 0307/3 Z5 HC-FEP	Tungsten carbide high-performance burr tree shape with radius end RBF dia. 03x07 mm shank dia. 3 mm Z5 HICOAT coated universal fine		2	24
21218134	RBF 0313/3 Z3 PLUS HC-FEP	Tungsten carbide high-perf. burr tree shape with radius end RBF dia. 03x13 mm shank dia. 3 mm Z3P HICOAT coated universal medium cross cut		2	24
21218154	RBF 0313/3 Z5 HC-FEP	Tungsten carbide high-performance burr tree shape with radius end RBF dia. 03x13 mm shank dia. 3 mm Z5 HICOAT coated universal fine		2	24
21230085	RBF 0613/3 Z3 PLUS HC-FEP	Tungsten carbide high-perf. burr tree shape with radius end RBF dia. 06x13 mm shank dia. 3 mm Z3P HICOAT coated universal medium cross cut		2	24
21230054	RBF 0613/3 Z5 HC-FEP	Tungsten carbide high-performance burr tree shape with radius end RBF dia. 06x13 mm shank dia. 3 mm Z5 HICOAT coated universal fine		2	24
21117307	RBF 0618/6 Z3 HC-FEP	Tungsten carbide high-performance burr tree shape with radius end RBF dia. 06x18 mm shank dia. 6 mm Z3 HICOAT coated universal medium		2	24
21117357	RBF 0618/6 Z5 HC-FEP	Tungsten carbide high-performance burr tree shape with radius end RBF dia. 06x18 mm shank dia. 6 mm Z5 HICOAT coated universal fine		2	24
21117707	RBF 1020/6 Z3 HC-FEP	Tungsten carbide high-performance burr tree shape with radius end RBF dia. 10x20 mm shank dia. 6 mm Z3 HICOAT coated universal medium		2	24

Milling, drilling and countersinking tools

Item number	Abbreviation	Description	Image	Catalogue	Page
21117757	RBF 1020/6 Z5 HC-FEP	Tungsten carbide high-performance burr tree shape with radius end RBF dia. 10x20 mm shank dia. 6 mm Z5 HICOAT coated universal fine		2	24
21117807	RBF 1225/6 Z3 HC-FEP	Tungsten carbide high-performance burr tree shape with radius end RBF dia. 12x25 mm shank dia. 6 mm Z3 HICOAT coated universal medium		2	24
21117857	RBF 1225/6 Z5 HC-FEP	Tungsten carbide high-performance burr tree shape with radius end RBF dia. 12x25 mm shank dia. 6 mm Z5 HICOAT coated universal fine		2	24
21210084	TRE 0307/3 Z3 PLUS HC-FEP	Tungsten carbide high-performance burr oval TRE dia. 03x07 mm shank dia. 3 mm Z3P HICOAT coated universal medium cross cut		2	25
21210054	TRE 0307/3 Z5 HC-FEP	Tungsten carbide high-performance burr oval TRE dia. 03x07 mm shank dia. 3 mm Z3 HICOAT coated universal medium		2	25
21235084	TRE 0610/3 Z3 PLUS HC-FEP	Tungsten carbide high-performance burr oval TRE dia. 06x10 mm shank dia. 3 mm Z3P HICOAT coated universal medium cross cut		2	25
21235054	TRE 0610/3 Z5 HC-FEP	Tungsten carbide high-performance burr oval TRE dia. 06x10 mm shank dia. 3 mm Z5 HICOAT coated universal fine		2	25
21135107	TRE 1220/6 Z3 HC-FEP	Tungsten carbide high-performance burr oval TRE dia. 12x20 mm shank dia. 6 mm Z3 HICOAT coated universal medium		2	25
21135157	TRE 1220/6 Z5 HC-FEP	Tungsten carbide high-performance burr oval TRE dia. 12x20 mm shank dia. 6 mm Z5 HICOAT coated universal fine		2	25

Milling, drilling and countersinking tools

Item number	Abbreviation	Description	Image	Catalogue	Page
21001087	ZYAS 0313/3 ALLROUND HC-FEP	Tungsten carbide high-performance burr ALLROUND cylindrical ZYAS end cut dia. 03x13 mm shank dia. 3 mm HICOAT coated for steel		2	30
21001088	ZYAS 0613/3 ALLROUND HC-FEP	Tungsten carbide high-performance burr ALLROUND cylindrical ZYAS end cut dia. 06x13 mm shank dia. 3 mm HICOAT coated for steel		2	30
21001081	ZYAS 0616/6 ALLROUND HC-FEP	Tungsten carbide high-performance burr ALLROUND cylindrical ZYAS end cut dia. 06x16 mm shank dia. 6 mm HICOAT coated for steel		2	30
21001089	KUD 0302/3 ALLROUND HC-FEP	Tungsten carbide high-performance burr ALLROUND ball KUD dia. 03x02 mm shank dia. 3 mm HICOAT coated for steel		2	30
21001090	KUD 0403/3 ALLROUND HC-FEP	Tungsten carbide high-performance burr ALLROUND ball KUD dia. 04x03 mm shank dia. 3 mm HICOAT coated for steel		2	30
21001091	KUD 0605/3 ALLROUND HC-FEP	Tungsten carbide high-performance burr ALLROUND ball KUD dia. 06x05 mm shank dia. 3 mm HICOAT coated for steel		2	30
21001084	KUD 0605/6 ALLROUND HC-FEP	Tungsten carbide high-performance burr ALLROUND ball KUD dia. 06x05 mm shank dia. 6 mm HICOAT coated for steel		2	30
21001092	WRC 0313/3 ALLROUND HC-FEP	Tungsten carbide high-performance burr ALLROUND cylindrical with radius end WRC dia. 03x13 mm shank dia. 3 mm HICOAT coated for steel		2	31
21001093	WRC 0613/3 ALLROUND HC-FEP	Tungsten carbide high-performance burr ALLROUND cylindrical with radius end WRC dia. 06x13 mm shank dia. 3 mm HICOAT coated for steel		2	31

Milling, drilling and countersinking tools

PFERD TOOLS

Item number	Abbreviation	Description	Image	Catalogue	Page
21001082	WRC 0616/6 ALLROUND HC-FEP	Tungsten carbide high-performance burr ALLROUND cylindrical with radius end WRC dia. 06x16 mm shank dia. 6 mm HICOAT coated for steel		2	31
21001094	B 0307/3 ALLROUND HC-FEP	Tungsten carbide high-performance burr ALLROUND flame B dia. 03x07 mm shank dia. 3 mm HICOAT coated for steel		2	31
21001095	B 0613/3 ALLROUND HC-FEP	Tungsten carbide high-performance burr ALLROUND flame B dia. 06x13 mm shank dia. 3 mm HICOAT coated for steel		2	31
21001096	SPG 0307/3 ALLROUND HC-FEP	Tungsten carbide high-performance burr ALLROUND pointed tree SPG dia. 03x07 mm shank dia. 3 mm HICOAT coated for steel		2	32
21001097	SPG 0313/3 ALLROUND HC-FEP	Tungsten carbide high-performance burr ALLROUND pointed tree SPG dia. 06x13 mm shank dia. 3 mm HICOAT coated for steel		2	32
21001098	SPG 0613/3 ALLROUND HC-FEP	Tungsten carbide high-performance burr ALLROUND pointed tree SPG dia. 06x13 mm shank dia. 3 mm HICOAT coated for steel		2	32
21001085	SPG 0618/6 ALLROUND HC-FEP	Tungsten carbide high-performance burr ALLROUND pointed tree SPG dia. 06x18 mm shank dia. 6 mm HICOAT coated for steel		2	32
21001099	SKM 0307/3 ALLROUND HC-FEP	Tungsten carbide high-performance burr ALLROUND conical pointed SKM dia. 03x07 mm shank dia. 3 mm HICOAT coated for steel		2	33
21001100	SKM 0311/3 ALLROUND HC-FEP	Tungsten carbide high-performance burr ALLROUND conical pointed SKM dia. 03x11 mm shank dia. 3 mm HICOAT coated for steel		2	33

Milling, drilling and countersinking tools

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Item number	Abbreviation	Description	Image	Catalogue	Page
21001101	SKM 0613/3 ALLROUND HC-FEP	Tungsten carbide high-performance burr ALLROUND conical pointed SKM dia. 06x13 mm shank dia. 3 mm HICOAT coated for steel		2	33
21001086	SKM 0618/6 ALLROUND HC-FEP	Tungsten carbide high-performance burr ALLROUND conical pointed SKM dia. 06x18 mm shank dia. 6 mm HICOAT coated for steel		2	33
21001102	RBF 0307/3 ALLROUND HC-FEP	Tungsten carbide high-performance burr ALLROUND tree shape with radius end RBF dia. 03x07 mm shank dia. 3 mm HICOAT coated for steel		2	33
21001103	RBF 0313/3 ALLROUND HC-FEP	Tungsten carbide high-performance burr ALLROUND tree shape with radius end RBF dia. 06x13 mm shank dia. 3 mm HICOAT coated for steel		2	33
21001104	RBF 0613/3 ALLROUND HC-FEP	Tungsten carbide high-performance burr ALLROUND tree shape with radius end RBF dia. 06x13 mm shank dia. 3 mm HICOAT coated for steel		2	33
21001083	RBF 0618/6 ALLROUND HC-FEP	Tungsten carbide high-performance burr ALLROUND tree shape with radius end RBF dia. 06x18 mm shank dia. 6 mm HICOAT coated for steel		2	33
21001105	TRE 0307/3 ALLROUND HC-FEP	Tungsten carbide high-performance burr ALLROUND oval TRE dia. 03x07 mm shank dia. 3 mm HICOAT coated for steel		2	34
21001106	TRE 0610/3 ALLROUND HC-FEP	Tungsten carbide high-performance burr ALLROUND oval TRE dia. 06x10 mm shank dia. 3 mm HICOAT coated for steel		2	34
21901405	1406 ALLROUND 3TLG HC-FEP	Tungsten carbide high-performance burr set 1406 ALLROUND 3-piece dia. 6 mm shank dia. 6 mm HICOAT coated universal coarse		2	35

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Item number	Abbreviation	Description	Image	Catalogue	Page
21901805	1806 STEEL 3TLG HC-FEP	Tungsten carbide high-performance burr set 1806 STEEL 3-piece dia. 6 mm shank dia. 6 mm HICOAT coated for steel		2	42
21901808	1807 STEEL 3TLG HC-FEP	Tungsten carbide high-performance burr set 1807 STEEL 3-piece dia. 12 mm shank dia. 6 mm HICOAT coated for steel		2	42
21901905	1906 INOX 3TLG HC-FEP	Tungsten carbide high-performance burr set 1906 INOX 3-piece dia. 6 mm shank dia. 6 mm HICOAT coated for stainless steel		2	48
21901908	1907 INOX 3TLG HC-FEP	Tungsten carbide high-performance burr set 1907 INOX 3-piece dia. 12 mm shank dia. 6 mm HICOAT coated for stainless steel		2	48
21200296	ZYAS 0313/3 ALU HC-NFE	Tungsten carbide high-perf. burr ALU cylindrical ZYAS end cut dia. 03x13 mm shank dia. 3 mm HICOAT coated for aluminium/non-ferrous metals		2	49
21200496	ZYAS 0613/3 ALU HC-NFE	Tungsten carbide high-perf. burr ALU cylindrical ZYAS end cut dia. 06x13 mm shank dia. 3 mm HICOAT coated for aluminium/non-ferrous metals		2	49
21100987	ZYAS 0616/6 ALU HC-NFE	TC high-performance burr ALU cylindrical ZYAS end cut dia. 06x16 mm shank dia. 6 mm HICOAT coated for aluminium/non-ferrous metals		2	49
21211096	KUD 0302/3 ALU HC-NFE	Tungsten carbide high-performance burr ALU ball KUD dia. 03x02 mm shank dia. 3 mm HICOAT coated for aluminium/non-ferrous metals		2	49
21213096	KUD 0605/3 ALU HC-NFE	Tungsten carbide high-performance burr ALU ball KUD dia. 06x05 mm shank dia. 3 mm HICOAT coated for aluminium/non-ferrous metals		2	49

Milling, drilling and countersinking tools

Item number	Abbreviation	Description	Image	Catalogue	Page
21112585	KUD 0605/6 ALU HC-NFE	Tungsten carbide high-performance burr ALU ball KUD dia. 06x05 mm shank dia. 6 mm HICOAT coated for aluminium/non-ferrous metals		2	49
21205196	WRC 0313/3 ALU HC-NFE	TC high-performance burr ALU cylindrical with radius end WRC dia. 03x13 mm shank dia. 3 mm HICOAT coated for aluminium/non-ferrous metals		2	50
21205296	WRC 0613/3 ALU HC-NFE	TC high-performance burr ALU cylindrical with radius end WRC dia. 06x13 mm shank dia. 3 mm HICOAT coated for aluminium/non-ferrous metals		2	50
21105787	WRC 0616/6 ALU HC-NFE	TC high-performance burr ALU cylindrical with radius end WRC dia. 06x16 mm shank dia. 6 mm HICOAT coated for aluminium/non-ferrous metals		2	50
21222664	SPG 0313/3 ALU HC-NFE	Tungsten carbide high-performance burr ALU pointed tree SPG dia. 03x13 mm shank dia. 3 mm HICOAT coated for aluminium/non-ferrous metals		2	50
21222764	SPG 0613/3 ALU HC-NFE	Tungsten carbide high-performance burr ALU pointed tree SPG dia. 06x13 mm shank dia. 3 mm HICOAT coated for aluminium/non-ferrous metals		2	50
21122567	SPG 0618/6 ALU HC-NFE	Tungsten carbide high-performance burr ALU pointed tree SPG dia. 10x20 mm shank dia. 6 mm HICOAT coated for aluminium/non-ferrous metals		2	50
21122677	SPG 1020/6 ALU HC-NFE	Tungsten carbide high-performance burr ALU pointed tree SPG dia. 06x18 mm shank dia. 6 mm HICOAT coated for aluminium/non-ferrous metals		2	50
21218136	RBF 0313/3 ALU HC-NFE	Tungsten carbide high-perf. burr ALU tree shape with radius end RBF dia. 03x13 mm shank dia. 3 mm HICOAT for aluminium/non-ferrous metals		2	51

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Item number	Abbreviation	Description	Image	Catalogue	Page
21230096	RBF 0613/3 ALU HC-NFE	Tungsten carbide high-perf. burr ALU tree shape with radius end RBF dia. 06x13 mm shank dia. 3 mm HICOAT for aluminium/non-ferrous metals		2	51
21117385	RBF 0618/6 ALU HC-NFE	Tungsten carbide high-perf. burr ALU tree shape with radius end RBF dia. 06x18 mm shank dia. 6 mm HICOAT for aluminium/non-ferrous metals		2	51
21901606	1606 ALU 3TLG	Tungsten carbide high-performance burr set 1606 ALU 3-piece dia. 6 mm shank dia. 6 mm for aluminium/non-ferrous metals		2	52
21901607	1606 ALU 3TLG HC-NFE	Tungsten carbide high-performance burr set 1606 ALU 3-piece dia. 6 mm shank dia. 6 mm HICOAT coated for aluminium/non-ferrous metals		2	52
21901613	1613 ALU 3TLG	Tungsten carbide high-performance burr set 1613 ALU 3-piece dia. 12 mm shank dia. 6 mm for aluminium/non-ferrous metals		2	53
21901614	1613 ALU 3TLG HC-NFE	Tungsten carbide high-performance burr set 1613 ALU 3-piece dia. 12 mm shank dia. 6 mm HICOAT coated for aluminium/non-ferrous metals		2	53
21201274	ZYA 0313/3 MICRO HC-FEP	Tungsten carbide high-performance burr MICRO cylindrical ZYA dia. 03x13 mm shank dia. 3 mm HICOAT coated for finishing		2	65
21201304	ZYA 0413/3 MICRO HC-FEP	Tungsten carbide high-performance burr MICRO cylindrical ZYA dia. 04x13 mm shank dia. 3 mm HICOAT coated for finishing		2	65
21201474	ZYA 0613/3 MICRO HC-FEP	Tungsten carbide high-performance burr MICRO cylindrical ZYA dia. 06x13 mm shank dia. 3 mm HICOAT coated for finishing		2	65

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21101677	ZYA 0616/6 MICRO HC-FEP	Tungsten carbide high-performance burr MICRO cylindrical ZYA dia. 06x16 mm shank dia. 6 mm HICOAT coated for finishing		2	65
21101777	ZYA 0820/6 MICRO HC-FEP	Tungsten carbide high-performance burr MICRO cylindrical ZYA dia. 08x20 mm shank dia. 6 mm HICOAT coated for finishing		2	65
21102177	ZYA 1020/6 MICRO HC-FEP	Tungsten carbide high-performance burr MICRO cylindrical ZYA dia. 10x20 mm shank dia. 6 mm HICOAT coated for finishing		2	65
21101977	ZYA 1225/6 MICRO HC-FEP	Tungsten carbide high-performance burr MICRO cylindrical ZYA dia. 12x25 mm shank dia. 6 mm HICOAT coated for finishing		2	65
21100277	ZYAS 0616/6 MICRO HC-FEP	Tungsten carbide high-performance burr MICRO cylindrical ZYAS end cut dia. 06x16 mm shank dia. 6 mm HICOAT coated for finishing		2	65
21100377	ZYAS 0820/6 MICRO HC-FEP	Tungsten carbide high-performance burr MICRO cylindrical ZYAS end cut dia. 08x20 mm shank dia. 6 mm HICOAT coated for finishing		2	65
21100777	ZYAS 1020/6 MICRO HC-FEP	Tungsten carbide high-performance burr MICRO cylindrical ZYAS end cut dia. 10x20 mm shank dia. 6 mm HICOAT coated for finishing		2	65
21100577	ZYAS 1225/6 MICRO HC-FEP	Tungsten carbide high-performance burr MICRO cylindrical ZYAS end cut dia. 12x25 mm shank dia. 6 mm HICOAT coated for finishing		2	65
21211074	KUD 0302/3 MICRO HC-FEP	Tungsten carbide high-performance burr MICRO ball KUD dia. 03x02 mm shank dia. 3 mm HICOAT coated for finishing		2	66

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Item number	Abbreviation	Description	Image	Catalogue	Page
21212574	KUD 0403/3 MICRO HC-FEP	Tungsten carbide high-performance burr MICRO ball KUD dia. 04x03 mm shank dia. 3 mm HICOAT coated for finishing		2	66
21213074	KUD 0605/3 MICRO HC-FEP	Tungsten carbide high-performance burr MICRO ball KUD dia. 06x05 mm shank dia. 3 mm HICOAT coated for finishing		2	66
21112577	KUD 0605/6 MICRO HC-FEP	Tungsten carbide high-performance burr MICRO ball KUD dia. 06x05 mm shank dia. 6 mm HICOAT coated for finishing		2	66
21112677	KUD 0807/6 MICRO HC-FEP	Tungsten carbide high-performance burr MICRO ball KUD dia. 08x07 mm shank dia. 6 mm HICOAT coated for finishing		2	66
21112777	KUD 1009/6 MICRO HC-FEP	Tungsten carbide high-performance burr MICRO ball KUD dia. 10x09 mm shank dia. 6 mm HICOAT coated for finishing		2	66
21112877	KUD 1210/6 MICRO HC-FEP	Tungsten carbide high-performance burr MICRO ball KUD dia. 12x10 mm shank dia. 6 mm HICOAT coated for finishing		2	66
21112977	KUD 1614/6 MICRO HC-FEP	Tungsten carbide high-performance burr MICRO ball KUD dia. 16x14 mm shank dia. 6 mm HICOAT coated for finishing		2	66
21205174	WRC 0313/3 MICRO HC-FEP	Tungsten carbide high-performance burr MICRO cylindrical with radius end WRC dia. 03x13 mm shank dia. 3 mm HICOAT coated for finishing		2	66
21205274	WRC 0613/3 MICRO HC-FEP	Tungsten carbide high-performance burr MICRO cylindrical with radius end WRC dia. 06x13 mm shank dia. 3 mm HICOAT coated for finishing		2	66

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21105077	WRC 0616/6 MICRO HC-FEP	Tungsten carbide high-performance burr MICRO cylindrical with radius end WRC dia. 06x16 mm shank dia. 6 mm HICOAT coated for finishing		2	66
21105177	WRC 0820/6 MICRO HC-FEP	Tungsten carbide high-performance burr MICRO cylindrical with radius end WRC dia. 08x20 mm shank dia. 6 mm HICOAT coated for finishing		2	66
21105277	WRC 1020/6 MICRO HC-FEP	Tungsten carbide high-performance burr MICRO cylindrical with radius end WRC dia. 10x20 mm shank dia. 6 mm HICOAT coated for finishing		2	66
21105377	WRC 1225/6 MICRO HC-FEP	Tungsten carbide high-performance burr MICRO cylindrical with radius end WRC dia. 12x25 mm shank dia. 6 mm HICOAT coated for finishing		2	66
21222574	SPG 0307/3 MICRO HC-FEP	Tungsten carbide high-performance burr MICRO pointed tree SPG dia. 03x07 mm shank dia. 3 mm HICOAT coated for finishing		2	67
21222674	SPG 0313/3 MICRO HC-FEP	Tungsten carbide high-performance burr MICRO pointed tree SPG dia. 03x13 mm shank dia. 3 mm HICOAT coated for finishing		2	67
21222774	SPG 0613/3 MICRO HC-FEP	Tungsten carbide high-performance burr MICRO pointed tree SPG dia. 06x13 mm shank dia. 3 mm HICOAT coated for finishing		2	67
21122577	SPG 0618/6 MICRO HC-FEP	Tungsten carbide high-performance burr MICRO pointed tree SPG dia. 06x18 mm shank dia. 6 mm HICOAT coated for finishing		2	67
21122598	SPG 0820/6 MICRO HC-FEP	Tungsten carbide high-performance burr MICRO pointed tree SPG dia. 08x20 mm shank dia. 6 mm HICOAT coated for finishing		2	67

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21122672	SPG 1020/6 MICRO HC-FEP	Tungsten carbide high-performance burr MICRO pointed tree SPG dia. 10x20 mm shank dia. 6 mm HICOAT coated for finishing		2	67
21122777	SPG 1225/6 MICRO HC-FEP	Tungsten carbide high-performance burr MICRO pointed tree SPG dia. 12x25 mm shank dia. 6 mm HICOAT coated for finishing		2	67
21214074	SKM 0307/3 MICRO HC-FEP	Tungsten carbide high-performance burr MICRO conical pointed SKM dia. 03x07 mm shank dia. 3 mm HICOAT coated for finishing		2	67
21214174	SKM 0311/3 MICRO HC-FEP	Tungsten carbide high-performance burr MICRO conical pointed SKM dia. 03x11 mm shank dia. 3 mm HICOAT coated for finishing		2	67
21215074	SKM 0613/3 MICRO HC-FEP	Tungsten carbide high-performance burr MICRO conical pointed SKM dia. 06x13 mm shank dia. 3 mm HICOAT coated for finishing		2	67
21115075	SKM 0618/6 MICRO HC-FEP	Tungsten carbide high-performance burr MICRO conical pointed SKM dia. 06x18 mm shank dia. 6 mm HICOAT coated for finishing		2	68
21115085	SKM 0820/6 MICRO HC-FEP	Tungsten carbide high-performance burr MICRO conical pointed SKM dia. 08x20 mm shank dia. 6 mm HICOAT coated for finishing		2	68
21115177	SKM 1020/6 MICRO HC-FEP	Tungsten carbide high-performance burr MICRO conical pointed SKM dia. 10x20 mm shank dia. 6 mm HICOAT coated for finishing		2	68
21115277	SKM 1225/6 MICRO HC-FEP	Tungsten carbide high-performance burr MICRO conical pointed SKM dia. 12x25 mm shank dia. 6 mm HICOAT coated for finishing		2	68

Item number	Abbreviation	Description	Image	Catalogue	Page
21217594	RBF 0307/3 MICRO HC-FEP	Tungsten carbide high-performance burr MICRO tree shape with radius end RBF dia. 03x07 mm shank dia. 3 mm HICOAT coated for finishing		2	68
21218174	RBF 0313/3 MICRO HC-FEP	Tungsten carbide high-performance burr MICRO tree shape with radius end RBF dia. 03x13 mm shank dia. 3 mm HICOAT coated for finishing		2	68
21230074	RBF 0613/3 MICRO HC-FEP	Tungsten carbide high-performance burr MICRO tree shape with radius end RBF dia. 06x13 mm shank dia. 3 mm HICOAT coated for finishing		2	68
21117377	RBF 0618/6 MICRO HC-FEP	Tungsten carbide high-performance burr MICRO tree shape with radius end RBF dia. 06x18 mm shank dia. 6 mm HICOAT coated for finishing		2	68
21117677	RBF 0820/6 MICRO HC-FEP	Tungsten carbide high-performance burr MICRO tree shape with radius end RBF dia. 08x20 mm shank dia. 6 mm HICOAT coated for finishing		2	68
21117777	RBF 1020/6 MICRO HC-FEP	Tungsten carbide high-performance burr MICRO tree shape with radius end RBF dia. 10x20 mm shank dia. 6 mm HICOAT coated for finishing		2	68
21117875	RBF 1225/6 MICRO HC-FEP	Tungsten carbide high-performance burr MICRO tree shape with radius end RBF dia. 12x25 mm shank dia. 6 mm HICOAT coated for finishing		2	68
21901307	1306 MICRO 3TLG HC-FEP	Tungsten carbide high-performance burr set 1306 MICRO 3-piece dia. 6 mm shank dia. 6 mm HICOAT coated for finishing		2	70
21901313	1312 MICRO 3TLG HC-FEP	Tungsten carbide high-performance burr set 1312 MICRO 3-piece dia. 12 mm shank dia. 6 mm HICOAT coated for finishing		2	70

Item number	Abbreviation	Description	Image	Catalogue	Page
26007864	PZF 0422/6-60 COARSE	Tungsten carbide profile cylinder burr PZF COARSE dia. 04x22x60 mm shank dia. 6 mm for locksmiths, police and fire service		2	77
26007865	PZF 0422/6-70 COARSE	Tungsten carbide profile cylinder burr PZF COARSE dia. 04x22x70 mm shank dia. 6 mm for locksmiths, police and fire service		2	77
26007866	PZF 0622/6-60 COARSE	Tungsten carbide profile cylinder burr PZF COARSE dia. 04x22x60 mm shank dia. 6 mm for locksmiths, police and fire service		2	77
26007867	PZF 0622/6-80 COARSE	Tungsten carbide profile cylinder burr PZF COARSE dia. 04x22x80 mm shank dia. 6 mm for locksmiths, police and fire service		2	77
26007936	PZF 0424/6-60 ALU	Tungsten carbide profile cylinder burr PZF ALU dia. 04x24x60 mm shank dia. 6 mm for locksmiths, police and fire service		2	77
26007746	WRC 0320/3 PZF GL65	Tungsten carbide profile cylinder burr PZF cyl. with radius end WRC dia. 03x20x65mm shank dia. 3mm for locksmiths, police and fire service		2	78
26007731	WRC 0320/3 PZF GL80	Tungsten carbide profile cylinder burr PZF cyl. with radius end WRC dia. 03x20x80mm shank dia. 3mm for locksmiths, police and fire service		2	78
26007723	WRC 0420/6 PZF GL60	Tungsten carbide profile cylinder burr PZF cyl. with radius end WRC dia. 04x20x60mm shank dia. 6mm for locksmiths, police and fire service		2	78
26007724	WRC 0428/6 PZF GL70	Tungsten carbide profile cylinder burr PZF cyl. with radius end WRC dia. 04x28x70mm shank dia. 6mm for locksmiths, police and fire service		2	78

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26007730	WRC 0618/6 PZF GL60	Tungsten carbide profile cylinder burr PZF cyl. with radius end WRC dia. 06x18x60mm shank dia. 6mm for locksmiths, police and fire service		2	78
26007729	WRC 0618/6 PZF GL80	Tungsten carbide profile cylinder burr PZF cyl. with radius end WRC dia. 06x18x80mm shank dia. 6mm for locksmiths, police and fire service		2	78
21460013	KSK 1005/6 Z3 HC RS	TC high-perf. burr conical counterbore shape KSK dia 10x5mm shank dia 6mm Z3 HICOAT coated for chamfer/deburring work, robot applications		2	80
21460012	KSK 1005/6 Z5 HC RS	TC high-perf. burr conical counterbore shape KSK dia 10x5mm shank dia 6mm Z5 HICOAT coated for chamfer/deburring work, robot applications		2	80
21460015	KSK 1608/6 Z3 HC RS	TC high-perf. burr conical counterbore shape KSK dia 16x8mm shank dia 6mm Z3 HICOAT coated for chamfer/deburring work, robot applications		2	80
21460014	KSK 1608/6 Z5 HC RS	TC high-perf. burr conical counterbore shape KSK dia 16x8mm shank dia 6mm Z5 HICOAT coated for chamfer/deburring work, robot applications		2	80
21460008	KSK-WKN 1011/6 Z3 90°HC RS SL75	TC high-perf. burr KSK-WKN dia. 10x11 mm shank dia. 6x75 mm Z3 HICOAT coated special shape chamfering/deburring work in robot applications		2	80
21460009	KSK-WKN 1011/6 Z5 90°HC RS SL75	TC high-perf. burr KSK-WKN dia. 10x11 mm shank dia. 6x75 mm Z5 HICOAT coated special shape chamfering/deburring work in robot applications		2	80
21460010	KSK-WKN 1615/6 Z3 90°HC RS SL75	TC high-perf. burr KSK-WKN dia. 16x15 mm shank dia. 6x75 mm Z3 HICOAT coated special shape chamfering/deburring work in robot applications		2	80

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Item number	Abbreviation	Description	Image	Catalogue	Page
21460011	KSK-WKN 1615/6 Z5 90°HC RS SL75	TC high-perf. burr KSK-WKN dia. 16x15 mm shank dia. 6x75 mm Z5 HICOAT coated special shape chamfering/deburring work in robot applications		2	80
21460004	WKN 1003/6 Z3 90° HC RS SL75	TC high-perf. burr inverted cone WKN dia. 10x03 mm shank dia. 6x75 mm Z3 HICOAT coated chamfering/deburring work in robot applications		2	81
21460005	WKN 1003/6 Z5 90° HC RS SL75	TC high-perf. burr inverted cone WKN dia. 10x03 mm shank dia. 6x75 mm Z5 HICOAT coated chamfering/deburring work in robot applications		2	81
21460006	WKN 1606/6 Z3 90° HC RS SL75	TC high-perf. burr inverted cone WKN dia. 16x06 mm shank dia. 6x75 mm Z3 HICOAT coated chamfering/deburring work in robot applications		2	81
21460007	WKN 1606/6 Z5 90° HC RS SL75	TC high-perf. burr inverted cone WKN dia. 16x06 mm shank dia. 6x75 mm Z5 HICOAT coated chamfering/deburring work in robot applications		2	81
21460018	ZYA 1019/6 ALU HC RS KGL	TC high-performance burr ALU cyl. ZYA dia. 10x19mm shank dia.6mm HICOAT coated with ball bearing chamfer/deburring work robot applications		2	81
21460017	ZYA 1019/6 MICRO HC RS KGL	TC high-perf. burr MICRO cylindrical ZYA dia. 10x19 mm shank dia. 6 mm HICOAT coated with ball bearing for finishing in robot applications		2	81
21460016	ZYA 1019/6 C4 HC RS KGL	TC high-perf. burr cylindrical ZYA dia. 10x19 mm shank dia. 6 mm Z4 HICOAT coated ball bearing chamfer/deburring work robot applications		2	81
21460019	SKM-ZYA 0625/6 ALU GL120 HC RS	TC high-perf. burr ALU SKM-ZYA dia. 6x25 mm shk. dia. 6x120 mm HICOAT coated special shape chamfering/deburring work in robot applications		2	82

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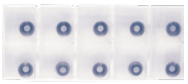
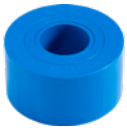
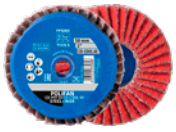
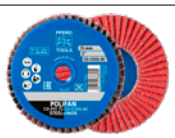
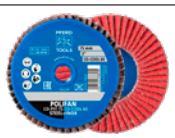
22000032	HSD-R 50 RS ALUMASTER	High-performance milling disc ALUMASTER HSD-R dia. 50 mm RS for robot applications aluminium machining HICOAT coated		2	98
22000033	HSD-R 125 RS ALUMASTER	High-performance milling disc ALUMASTER HSD-R dia. 125 mm RS for robot applications aluminium machining HICOAT coated		2	98
22000034	HSD-R 150 RS ALUMASTER	High-performance milling disc ALUMASTER HSD-R dia. 150 mm RS for robot applications aluminium machining HICOAT coated		2	98
22000036	BO M10/10 HSD-R50 DEPO	Clamping bolt for ALUMASTER R50 with DEPO mounting M10		2	99
22000035	RS WSP-A-10R	Accessory for ALUMASTER RS TC cutting inserts dia. 10 mm HICOAT coated		2	100
23000207	HSC-T20 DEPO M10	High-performance cutter TORUS CUTTER dia. 20x60 mm with DEPO mounting M10 for robots, aluminium machining		2	101
Mounted points					
39010150	32/25,4/19,05/15,875/12,7	Reducing ring set 32/25.4/19.05/15.875/12.7		3	37
39010151	51/32/25,4/19,05/15,875/12,7	Reducing ring set 51/32/25.4/19.05/15.875/12.7		3	37

Mounted points

Item number	Abbreviation	Description	Image	Catalogue	Page
39010152	76,2/51/38,1/32	Reducing ring set 76.2/51/38.1/32		3	37
Fine grinding and polishing tools					
42719100	CD-PFF 50 CO-COOL 40	COMBIDISC ceramic oxide grain Mini-POLIFAN CD dia. 50 mm CO-COOL40 for cool grinding on stainless steel		4	39
42719101	CD-PFF 50 CO-COOL 60	COMBIDISC ceramic oxide grain Mini-POLIFAN CD dia. 50 mm CO-COOL60 for cool grinding on stainless steel		4	39
42719102	CD-PFF 50 CO-COOL 80	COMBIDISC ceramic oxide grain Mini-POLIFAN CD dia. 50 mm CO-COOL80 for cool grinding on stainless steel		4	39
42719103	CD-PFF 50 CO-COOL 120	COMBIDISC ceramic oxide grain Mini-POLIFAN CD dia. 50 mm CO-COOL120 for cool grinding on stainless steel		4	39
42719110	CD-PFF 75 CO-COOL 120	COMBIDISC ceramic oxide grain Mini-POLIFAN CD dia. 75 mm CO-COOL120 for cool grinding on stainless steel		4	39
42719105	CD-PFF 75 CO-COOL 40	COMBIDISC ceramic oxide grain Mini-POLIFAN CD dia. 75 mm CO-COOL40 for cool grinding on stainless steel		4	39
42719107	CD-PFF 75 CO-COOL 60	COMBIDISC ceramic oxide grain Mini-POLIFAN CD dia. 75 mm CO-COOL60 for cool grinding on stainless steel		4	39

Item number	Abbreviation	Description	Image	Catalogue	Page
42719109	CD-PFF 75 CO-COOL 80	COMBIDISC ceramic oxide grain Mini-POLIFAN CD dia. 75 mm CO-COOL80 for cool grinding on stainless steel		4	40
42719115	CDR-PFF 50 CO-COOL 120	COMBIDISC ceramic oxide grain Mini-POLIFAN CDR dia. 50 mm CO-COOL120 for cool grinding on stainless steel		4	40
42719111	CDR-PFF 50 CO-COOL 40	COMBIDISC ceramic oxide grain Mini-POLIFAN CDR dia. 50 mm CO-COOL40 for cool grinding on stainless steel		4	40
42719113	CDR-PFF 50 CO-COOL 60	COMBIDISC ceramic oxide grain Mini-POLIFAN CDR dia. 50 mm CO-COOL60 for cool grinding on stainless steel		4	40
42719114	CDR-PFF 50 CO-COOL 80	COMBIDISC ceramic oxide grain Mini-POLIFAN CDR dia. 50 mm CO-COOL80 for cool grinding on stainless steel		4	40
42719119	CDR-PFF 75 CO-COOL 120	COMBIDISC ceramic oxide grain Mini-POLIFAN CDR dia. 75 mm CO-COOL120 for cool grinding on stainless steel		4	40
42719116	CDR-PFF 75 CO-COOL 40	COMBIDISC ceramic oxide grain Mini-POLIFAN CDR dia. 75 mm CO-COOL40 for cool grinding on stainless steel		4	40
42719117	CDR-PFF 75 CO-COOL 60	COMBIDISC ceramic oxide grain Mini-POLIFAN CDR dia. 75 mm CO-COOL60 for cool grinding on stainless steel		4	40
42719118	CDR-PFF 75 CO-COOL 80	COMBIDISC ceramic oxide grain Mini-POLIFAN CDR dia. 75 mm CO-COOL80 for cool grinding on stainless steel		4	40

Fine grinding and polishing tools

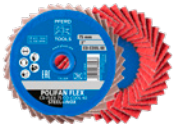
Item number	Abbreviation	Description	Image	Catalogue	Page
42719800	CD-FLEX 50 A 40	COMBIDISC aluminium oxide Mini-POLIFAN CD dia. 50mm A40 for general use		4	40
42719801	CD-FLEX 50 A 60	COMBIDISC aluminium oxide Mini-POLIFAN CD dia. 50mm A60 for general use		4	40
42719802	CD-FLEX 50 A 80	COMBIDISC aluminium oxide Mini-POLIFAN CD dia. 50mm A80 for general use		4	40
42719803	CD-FLEX 50 A 120	COMBIDISC aluminium oxide Mini-POLIFAN CD dia. 50mm A120 for general use		4	40
42719804	CD-FLEX 75 A 40	COMBIDISC aluminium oxide Mini-POLIFAN CD dia. 75 mm A40 for general use		4	40
42719805	CD-FLEX 75 A 60	COMBIDISC aluminium oxide Mini-POLIFAN CD dia. 75 mm A60 for general use		4	40
42719806	CD-FLEX 75 A 80	COMBIDISC aluminium oxide Mini-POLIFAN CD dia. 75 mm A80 for general use		4	40
42719807	CD-FLEX 75 A 120	COMBIDISC aluminium oxide Mini-POLIFAN CD dia. 75 mm A120 for general use		4	40
42719808	CDR-FLEX 50 A 40	COMBIDISC aluminium oxide Mini-POLIFAN CDR dia. 50mm A40 for general use		4	40

Fine grinding and polishing tools

Item number	Abbreviation	Description	Image	Catalogue	Page
42719809	CDR-FLEX 50 A 60	COMBIDISC aluminium oxide Mini-POLIFAN CDR dia. 50mm A60 for general use		4	40
42719810	CDR-FLEX 50 A 80	COMBIDISC aluminium oxide Mini-POLIFAN CDR dia. 50mm A80 for general use		4	40
42719811	CDR-FLEX 50 A 120	COMBIDISC aluminium oxide Mini-POLIFAN CDR dia. 50mm A120 for general use		4	40
42719812	CDR-FLEX 75 A 40	COMBIDISC aluminium oxide Mini-POLIFAN CDR dia. 75 mm A40 for general use		4	40
42719813	CDR-FLEX 75 A 60	COMBIDISC aluminium oxide Mini-POLIFAN CDR dia. 75 mm A60 for general use		4	40
42719814	CDR-FLEX 75 A 80	COMBIDISC aluminium oxide Mini-POLIFAN CDR dia. 75 mm A80 for general use		4	40
42719815	CDR-FLEX 75 A 120	COMBIDISC aluminium oxide Mini-POLIFAN CDR dia. 75 mm A120 for general use		4	40
42719819	CD-FLEX 50 CO-COOL 120	COMBIDISC flexible ceramic oxide grain Mini-POLIFAN CD dia. 50 mm CO-COOL120 for cool grinding on stainless steel		4	41
42719816	CD-FLEX 50 CO-COOL 40	COMBIDISC flexible ceramic oxide grain Mini-POLIFAN CD dia. 50 mm CO-COOL40 for cool grinding on stainless steel		4	41

Fine grinding and polishing tools

PFERD TOOLS

Item number	Abbreviation	Description	Image	Catalogue	Page
42719817	CD-FLEX 50 CO-COOL 60	COMBIDISC flexible ceramic oxide grain Mini-POLIFAN CD dia. 50 mm CO-COOL60 for cool grinding on stainless steel		4	41
42719818	CD-FLEX 50 CO-COOL 80	COMBIDISC flexible ceramic oxide grain Mini-POLIFAN CD dia. 50 mm CO-COOL80 for cool grinding on stainless steel		4	41
42719822	CD-FLEX 75 CO-COOL 80	COMBIDISC flexible ceramic oxide grain Mini-POLIFAN CD dia. 75 mm CO-COOL80 for cool grinding on stainless steel		4	41
42719823	CD-FLEX 75 CO-COOL 120	COMBIDISC flexible ceramic oxide grain Mini-POLIFAN CD dia. 75 mm CO-COOL120 for cool grinding on stainless steel		4	41
42719820	CD-FLEX 75 CO-COOL 40	COMBIDISC flexible ceramic oxide grain Mini-POLIFAN CD dia. 75 mm CO-COOL40 for cool grinding on stainless steel		4	41
42719821	CD-FLEX 75 CO-COOL 60	COMBIDISC flexible ceramic oxide grain Mini-POLIFAN CD dia. 75 mm CO-COOL60 for cool grinding on stainless steel		4	41
42719827	CDR-FLEX 50 CO-COOL 120	COMBIDISC flexible ceramic oxide grain Mini-POLIFAN CDR dia. 50 mm CO-COOL120 for cool grinding on stainless steel		4	41
42719824	CDR-FLEX 50 CO-COOL 40	COMBIDISC flexible ceramic oxide grain Mini-POLIFAN CDR dia. 50 mm CO-COOL40 for cool grinding on stainless steel		4	41
42719825	CDR-FLEX 50 CO-COOL 60	COMBIDISC flexible ceramic oxide grain Mini-POLIFAN CDR dia. 50 mm CO-COOL60 for cool grinding on stainless steel		4	41

Fine grinding and polishing tools

Item number	Abbreviation	Description	Image	Catalogue	Page
42719826	CDR-FLEX 50 CO-COOL 80	COMBIDISC flexible ceramic oxide grain Mini-POLIFAN CDR dia. 50 mm CO-COOL80 for cool grinding on stainless steel		4	41
42719831	CDR-FLEX 75 CO-COOL 120	COMBIDISC flexible ceramic oxide grain Mini-POLIFAN CDR dia. 75 mm CO-COOL120 for cool grinding on stainless steel		4	41
42719828	CDR-FLEX 75 CO-COOL 40	COMBIDISC flexible ceramic oxide grain Mini-POLIFAN CDR dia. 75 mm CO-COOL40 for cool grinding on stainless steel		4	41
42719829	CDR-FLEX 75 CO-COOL 60	COMBIDISC flexible ceramic oxide grain Mini-POLIFAN CDR dia. 75 mm CO-COOL60 for cool grinding on stainless steel		4	41
42719830	CDR-FLEX 75 CO-COOL 80	COMBIDISC flexible ceramic oxide grain Mini-POLIFAN CDR dia. 75 mm CO-COOL80 for cool grinding on stainless steel		4	41
47503622	BG ECO BR 230X280 A 100	Cloth-backed abrasive sheet aluminium oxide 230x280 mm BG ECO BR A100 general for wood, paint and lacquer		4	77
47503623	BG ECO BR 230X280 A 120	Cloth-backed abrasive sheet aluminium oxide 230x280 mm BG ECO BR A120 general for wood, paint and lacquer		4	77
47503624	BG ECO BR 230X280 A 150	Cloth-backed abrasive sheet aluminium oxide 230x280 mm BG ECO BR A150 general for wood, paint and lacquer		4	77
47503625	BG ECO BR 230X280 A 180	Cloth-backed abrasive sheet aluminium oxide 230x280 mm BG ECO BR A180 general for wood, paint and lacquer		4	77

Fine grinding and polishing tools

Item number	Abbreviation	Description	Image	Catalogue	Page
47503626	BG ECO BR 230X280 A 220	Cloth-backed abrasive sheet aluminium oxide 230x280 mm BG ECO BR A220 general for wood, paint and lacquer		4	77
47503627	BG ECO BR 230X280 A 240	Cloth-backed abrasive sheet aluminium oxide 230x280 mm BG ECO BR A240 general for wood, paint and lacquer		4	77
47503619	BG ECO BR 230X280 A 40	Cloth-backed abrasive sheet aluminium oxide 230x280 mm BG ECO BR A40 general for wood, paint and lacquer		4	77
47503620	BG ECO BR 230X280 A 60	Cloth-backed abrasive sheet aluminium oxide 230x280 mm BG ECO BR A60 general for wood, paint and lacquer		4	77
47503621	BG ECO BR 230X280 A 80	Cloth-backed abrasive sheet aluminium oxide 230x280 mm BG ECO BR A80 general for wood, paint and lacquer		4	77
44400069	F 1510/3 CO-COOL 120	Ceramic oxide grain mounted flap wheel F dia. 15x10 mm shank dia. 3 mm CO-COOL120 for high stock removal on stainless steel		4	116
44400067	F 1510/3 CO-COOL 60	Ceramic oxide grain mounted flap wheel F dia. 15x10 mm shank dia. 3 mm CO-COOL60 for high stock removal on stainless steel		4	116
44400068	F 1510/3 CO-COOL 80	Ceramic oxide grain mounted flap wheel F dia. 15x10 mm shank dia. 3 mm CO-COOL80 for high stock removal on stainless steel		4	116
44400072	F 1515/3 CO-COOL 120	Ceramic oxide grain mounted flap wheel F dia. 15x15 mm shank dia. 3 mm CO-COOL120 for high stock removal on stainless steel		4	116

Fine grinding and polishing tools

Item number	Abbreviation	Description	Image	Catalogue	Page
44400070	F 1515/3 CO-COOL 60	Ceramic oxide grain mounted flap wheel F dia. 15x15 mm shank dia. 3 mm CO-COOL60 for high stock removal on stainless steel		4	116
44400071	F 1515/3 CO-COOL 80	Ceramic oxide grain mounted flap wheel F dia. 15x15 mm shank dia. 3 mm CO-COOL80 for high stock removal on stainless steel		4	116
47700293	PNER-H KE 1025/3 A G	POLINOX pressed non-woven grinding point conical shape PNER dia. 10x25 mm shank dia. 3 mm hard A coarse for finishing		4	137
47700292	PNER-MH KE 1025/3 A F	POLINOX pressed non-woven grinding point conical shape PNER dia. 10x25 mm shank dia. 3 mm medium-hard A fine for finishing		4	137
47700279	PNER-H KU 15/6 A G	POLINOX pressed non-woven grinding point cylindrical shape PNER dia. 25x25 mm shank dia. 6 mm hard A coarse for finishing		4	137
47700278	PNER-MH KU 15/6 A F	POLINOX pressed non-woven grinding point ball shape PNER dia. 15 mm shank dia. 6 mm medium-hard A fine for finishing		4	137
47700277	PNER-MW KU 15/6 A F	POLINOX pressed non-woven grinding point ball shape PNER dia. 15 mm shank dia. 6 mm medium-soft A fine for finishing		4	137
47700283	PNER-H KU 20/6 A G	POLINOX pressed non-woven grinding point ball shape PNER dia. 20 mm shank dia. 6 mm hard A coarse for finishing		4	137
47700282	PNER-MH KU 20/6 A F	POLINOX pressed non-woven grinding point ball shape PNER dia. 20 mm shank dia. 6 mm medium-hard A fine for finishing		4	137

Fine grinding and polishing tools

Item number	Abbreviation	Description	Image	Catalogue	Page
47700281	PNER-MW KU 20/6 A F	POLINOX pressed non-woven grinding point ball shape PNER dia. 20 mm shank dia. 6 mm medium-soft A fine for finishing		4	137
47700287	PNER-H KU 25/6 A G	POLINOX pressed non-woven grinding point ball shape PNER dia. 25 mm shank dia. 6 mm hard A coarse for finishing		4	137
47700286	PNER-MH KU 25/6 A F	POLINOX pressed non-woven grinding point ball shape PNER dia. 25 mm shank dia. 6 mm medium-hard A fine for finishing		4	137
47700285	PNER-MW KU 25/6 A F	POLINOX pressed non-woven grinding point ball shape PNER dia. 25 mm shank dia. 6 mm medium-soft A fine for finishing		4	137
47700290	PNER-H SP 1020/3 A G	POLINOX pressed non-woven grinding point conical pointed shape PNER dia. 10x20 mm shank dia. 3 mm hard A coarse for finishing		4	137
47700289	PNER-MH SP 1020/3 A F	POLINOX pressed non-woven grinding point conical pointed shape PNER dia. 10x20 mm shank dia. 3 mm medium-hard A fine for finishing		4	137
47700296	PNER-H WR 1025/3 A G	POLINOX pressed non-woven grinding point cylindrical shape with radius end PNER dia. 10x25 mm shank dia. 3 mm hard A coarse for finishing		4	138
47700295	PNER-MH WR 1025/3 A F	POLINOX pressed non-woven grinding point cyl. shape with radius end PNER dia. 10x25 mm shank dia. 3 mm medium-hard A fine for finishing		4	138
47700252	PNER-H ZY 1010/3 A G	POLINOX pressed non-woven grinding point PNER dia. 10x10 mm shank dia. 3 mm hard A coarse for finishing		4	138

Fine grinding and polishing tools

Item number	Abbreviation	Description	Image	Catalogue	Page
47700251	PNER-MH ZY 1010/3 A F	POLINOX pressed non-woven grinding point PNER dia. 10x10 mm shank dia. 3 mm medium-hard A fine for finishing		4	138
47700255	PNER-H ZY 1020/3 A G	POLINOX pressed non-woven grinding point cylindrical shape PNER dia. 10x20 mm shank dia. 3 mm hard A coarse for finishing		4	138
47700254	PNER-MH ZY 1020/3 A F	POLINOX pressed non-woven grinding point cylindrical shape PNER dia. 10x20 mm shank dia. 3 mm medium-hard A fine for finishing		4	138
47700257	PNER-H ZY 1510/3 6 G	POLINOX pressed non-woven grinding point cylindrical shape PNER dia. 15x10 mm shank dia. 3 mm hard A coarse for finishing		4	138
47700256	PNER-MH ZY 1510/6 A F	POLINOX pressed non-woven grinding point cylindrical shape PNER dia. 15x10 mm shank dia. 6 mm medium-hard A fine for finishing		4	138
47700259	PNER-H ZY 1520/6 A G	POLINOX pressed non-woven grinding point cylindrical shape PNER dia. 15x20 mm shank dia. 6 mm hard A coarse for finishing		4	138
47700258	PNER-MH ZY 1520/6 A F	POLINOX pressed non-woven grinding point cylindrical shape PNER dia. 15x20 mm shank dia. 6 mm medium-hard A fine for finishing		4	138
47700263	PNER-H ZY 2010/6 A G	POLINOX pressed non-woven grinding point cylindrical shape PNER dia. 20x10 mm shank dia. 6 mm hard A coarse for finishing		4	138
47700262	PNER-MH ZY 2010/6 A F	POLINOX pressed non-woven grinding point cylindrical shape PNER dia. 20x10 mm shank dia. 6 mm medium-hard A fine for finishing		4	138

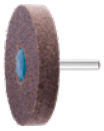
Fine grinding and polishing tools

Item number	Abbreviation	Description	Image	Catalogue	Page
47700261	PNER-MW ZY 2010/6 A F	POLINOX pressed non-woven grinding point cylindrical shape PNER dia. 20x10 mm shank dia. 6 mm medium-soft A fine for finishing		4	138
47700267	PNER-H ZY 2020/6 A G	POLINOX pressed non-woven grinding point cylindrical shape PNER dia. 20x20 mm shank dia. 6 mm hard A coarse for finishing		4	138
47700266	PNER-MH ZY 2020/6 A F	POLINOX pressed non-woven grinding point cylindrical shape PNER dia. 20x20 mm shank dia. 6 mm medium-hard A fine for finishing		4	138
47700265	PNER-MW ZY 2020/6 A F	POLINOX pressed non-woven grinding point cylindrical shape PNER dia. 20x20 mm shank dia. 6 mm medium-soft A fine for finishing		4	138
47700271	PNER-H ZY 2513/6 A G	POLINOX pressed non-woven grinding point cylindrical shape PNER dia. 25x13 mm shank dia. 6 mm hard A coarse for finishing		4	138
47700270	PNER-MH ZY 2513/6 A F	POLINOX pressed non-woven grinding point cylindrical shape PNER dia. 25x13 mm shank dia. 6 mm medium-hard A fine for finishing		4	138
47700269	PNER-MW ZY 2513/6 A F	POLINOX pressed non-woven grinding point cylindrical shape PNER dia. 25x13 mm shank dia. 6 mm medium-soft A fine for finishing		4	138
47700275	PNER-H ZY 2525/6 A G	POLINOX pressed non-woven grinding point cylindrical shape PNER dia. 25x25 mm shank dia. 6 mm hard A coarse for finishing		4	138
47700274	PNER-MH ZY 2525/6 A F	POLINOX pressed non-woven grinding point cylindrical shape PNER dia. 25x25 mm shank dia. 6 mm medium-hard A fine for finishing		4	138

Fine grinding and polishing tools

Item number	Abbreviation	Description	Image	Catalogue	Page
47700273	PNER-MW ZY 2525/6 A F	POLINOX pressed non-woven grinding point cylindrical shape PNER dia. 25x25 mm shank dia. 6 mm medium-soft A fine for finishing		4	138
47700229	PNER-H ZY 5013/6 A G	POLINOX pressed non-woven grinding point cylindrical shape PNER dia. 50x13 mm shank dia. 6 mm hard A coarse for finishing		4	138
47700228	PNER-MH ZY 5013/6 A F	POLINOX pressed non-woven grinding point cylindrical shape PNER dia. 50x13 mm shank dia. 6 mm medium-hard A fine for finishing		4	138
47700226	PNER-MW ZY 5013/6 A F	POLINOX pressed non-woven grinding point cylindrical shape PNER dia. 50x13 mm shank dia. 6 mm medium-soft A fine for finishing		4	138
47700224	PNER-W ZY 5013/6 A G	POLINOX pressed non-woven grinding point cylindrical shape PNER dia. 50x13 mm shank dia. 6 mm soft A fine for finishing		4	138
47700236	PNER-H ZY 5025/6 A G	POLINOX pressed non-woven grinding point cylindrical shape PNER dia. 50x25 mm shank dia. 6 mm hard A coarse for finishing		4	138
47700235	PNER-MH ZY 5025/6 A F	POLINOX pressed non-woven grinding point cylindrical shape PNER dia. 50x25 mm shank dia. 6 mm medium-hard A fine for finishing		4	138
47700233	PNER-MW ZY 5025/6 A F	POLINOX pressed non-woven grinding point cylindrical shape PNER dia. 50x25 mm shank dia. 6 mm medium-soft A fine for finishing		4	138
47700231	PNER-W ZY 5025/6 A G	POLINOX pressed non-woven grinding point cylindrical shape PNER dia. 50x25 mm shank dia. 6 mm soft A coarse for finishing		4	138

Fine grinding and polishing tools

Item number	Abbreviation	Description	Image	Catalogue	Page
47700243	PNER-H ZY 7513/6 A G	POLINOX pressed non-woven grinding point cylindrical shape PNER dia. 75x13 mm shank dia. 6 mm hard A coarse for finishing		4	138
47700242	PNER-MH ZY 7513/6 A F	POLINOX pressed non-woven grinding point cylindrical shape PNER dia. 75x13 mm shank dia. 6 mm medium-hard A fine for finishing		4	138
47700240	PNER-MW ZY 7513/6 A F	POLINOX pressed non-woven grinding point cylindrical shape PNER dia. 75x13 mm shank dia. 6 mm medium-soft A fine for finishing		4	138
47700238	PNER-W ZY 7513/6 A G	POLINOX pressed non-woven grinding point cylindrical shape PNER dia. 75x13 mm shank dia. 6 mm soft A coarse for finishing		4	138
47700249	PNER-H ZY 7525/6 A G	POLINOX pressed non-woven grinding point cylindrical shape PNER dia. 75x25 mm shank dia. 6 mm hard A coarse for finishing		4	138
47700248	PNER-MH ZY 7525/6 A F	POLINOX pressed non-woven grinding point cylindrical shape PNER dia. 75x25 mm shank dia. 6 mm medium-hard A fine for finishing		4	138
47700247	PNER-MW ZY 7525/6 A F	POLINOX pressed non-woven grinding point cylindrical shape PNER dia. 75x25 mm shank dia. 6 mm medium-soft A fine for finishing		4	138
47700245	PNER-W ZY 7525/6 A G	POLINOX pressed non-woven grinding point cylindrical shape PNER dia. 75x25 mm shank dia. 6 mm soft A coarse for finishing		4	138
47700291	PNER-MH KE 1025/3 SIC F	POLINOX pressed non-woven grinding point conical shape PNER dia. 10x25 mm shank dia. 3 mm medium-hard SIC fine for finishing		4	139

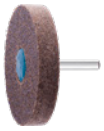
Fine grinding and polishing tools

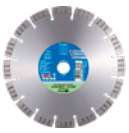
Item number	Abbreviation	Description	Image	Catalogue	Page
47700276	PNER-MW KU 15/6 SIC F	POLINOX pressed non-woven grinding point ball shape PNER dia. 15 mm shank dia. 6 mm medium-soft SIC fine for finishing		4	139
47700280	PNER-MW KU 20/6 SIC F	POLINOX pressed non-woven grinding point ball shape PNER dia. 20 mm shank dia. 6 mm medium-soft SIC fine for finishing		4	139
47700284	PNER-MW KU 25/6 SIC F	POLINOX pressed non-woven grinding point ball shape PNER dia. 25 mm shank dia. 6 mm medium-soft SIC fine for finishing		4	139
47700288	PNER-MH SP 1020/3 SIC F	POLINOX pressed non-woven grinding point conical pointed shape PNER dia. 10x20 mm shank dia. 3 mm medium-hard SIC fine for finishing		4	139
47700294	PNER-MH WR 1025/3 SIC F	POLINOX pressed non-woven grinding point cyl. shape with radius end PNER dia. 10x25 mm shank dia. 3 mm medium-hard SIC fine for finishing		4	139
47700250	PNER-MH ZY 1010/3 SIC F	POLINOX pressed non-woven grinding point cylindrical shape PNER dia. 10x10 mm shank dia. 3 mm medium-hard SIC fine for finishing		4	139
47700253	PNER-MH ZY 1020/3 SIC F	POLINOX pressed non-woven grinding point cylindrical shape PNER dia. 10x20 mm shank dia. 3 mm medium-hard SIC fine for finishing		4	139
47700260	PNER-MW ZY 2010/6 SIC F	POLINOX pressed non-woven grinding point cylindrical shape PNER dia. 20x10 mm shank dia. 6 mm medium-soft SIC fine for finishing		4	139
47700264	PNER-MW ZY 2020/6 SIC F	POLINOX pressed non-woven grinding point cylindrical shape PNER dia. 20x20 mm shank dia. 6 mm medium-soft SIC fine for finishing		4	139

Fine grinding and polishing tools

Item number	Abbreviation	Description	Image	Catalogue	Page
47700268	PNER-MW ZY 2513/6 SIC F	POLINOX pressed non-woven grinding point cylindrical shape PNER dia. 25x13 mm shank dia. 6 mm medium-soft SIC fine for finishing		4	139
47700272	PNER-MW ZY 2525/6 SIC F	POLINOX pressed non-woven grinding point cylindrical shape PNER dia. 25x35 mm shank dia. 6 mm medium-soft SIC fine for finishing		4	139
47700227	PNER-MH ZY 5013/6 SIC F	POLINOX pressed non-woven grinding point cylindrical shape PNER dia. 50x13 mm shank dia. 6 mm medium-hard SIC fine for finishing		4	139
47700225	PNER-MW ZY 5013/6 SIC F	POLINOX pressed non-woven grinding point cylindrical shape PNER dia. 50x13 mm shank dia. 6.35 mm medium-soft SIC fine for finishing		4	139
47700223	PNER-W ZY 5013/6 SIC F	POLINOX pressed non-woven grinding point cylindrical shape PNER dia. 50x13 mm shank dia. 6 mm soft SIC fine for finishing		4	139
47700234	PNER-MH ZY 5025/6 SIC F	POLINOX pressed non-woven grinding point cylindrical shape PNER dia. 50x25 mm shank dia. 6 mm medium-hard SIC fine for finishing		4	139
47700232	PNER-MW ZY 5025/6 SIC F	POLINOX pressed non-woven grinding point cylindrical shape PNER dia. 50x25 mm shank dia. 6 mm medium-soft SIC fine for finishing		4	139
47700230	PNER-W ZY 5025/6 SIC F	POLINOX pressed non-woven grinding point cylindrical shape PNER dia. 50x25 mm shank dia. 6 mm soft SIC fine for finishing		4	139
47700241	PNER-MH ZY 7513/6 SIC F	POLINOX pressed non-woven grinding point cylindrical shape PNER dia. 75x13 mm shank dia. 6 mm medium-hard SIC fine for finishing		4	139

Fine grinding and polishing tools

Item number	Abbreviation	Description	Image	Catalogue	Page
47700239	PNER-MW ZY 7513/6 SIC F	POLINOX pressed non-woven grinding point cylindrical shape PNER dia. 75x13 mm shank dia. 6 mm medium-soft SIC fine for finishing		4	139
47700237	PNER-W ZY 7513/6 SIC F	POLINOX pressed non-woven grinding point cylindrical shape PNER dia. 75x13 mm shank dia. 6 mm soft SIC fine for finishing		4	139
47700246	PNER-MW ZY 7525/6 SIC F	POLINOX pressed non-woven grinding point cylindrical shape PNER dia. 75x25 mm shank dia. 6 mm medium-soft SIC fine for finishing		4	139
47700244	PNER-W ZY 7525/6 SIC F	POLINOX pressed non-woven grinding point cylindrical shape PNER dia. 75x25 mm shank dia. 6 mm soft SIC fine for finishing		4	139
Diamond and CBN tools					
68300102	DS 150x2.2x22.23 PSF	Diamond cut-off wheel DS 150x2.2x22.23 mm PSF for fast cutting of stone and concrete		5	47
68000059	DS 150x2.2x22.23 SG	Diamond cut-off wheel DS 150x2.2x22.23 mm SG for fast cutting of stone and concrete		5	48
68000036	DS 115 x 2.2 x 22.23 SGP	Diamond cut-off wheel DS 115x2.2x22.23 mm SGP for fast cutting of stone and concrete		5	48
68000037	DS 125 x 2.2 x 22.23 SGP	Diamond cut-off wheel DS 125x2.2x22.23 mm SGP for fast cutting of stone and concrete		5	48

Item number	Abbreviation	Description	Image	Catalogue	Page
68000038	DS 178 x 2.4 x 22.23 SGP	Diamond cut-off wheel DS 178x2.4x22.23 mm SGP for fast cutting of stone and concrete		5	48
68000039	DS 230 x 2.4 x 22.23 SGP	Diamond cut-off wheel DS 230x2.4x22.23 mm SGP for fast cutting of stone and concrete		5	48
68000040	DS 300 x 3 x 25.4 SGP	Diamond cut-off wheel DS 300x3x25.4 mm SGP for fast cutting of stone and concrete		5	48
68000056	DS 350 x 3 x 25.4 SGP	Diamond cut-off wheel DS 350x3x25.4 mm SGP for fast cutting of stone and concrete		5	48
68000057	DS 400 x 3.5 x 25.4 SGP	Diamond cut-off wheel DS 400x3.5x25.4 mm SGP for fast cutting of stone and concrete		5	48
68300104	DS 300 x 2.8 x 25.4 AS SG	Diamond cut-off wheel DS 300x2.8x25.4 mm SG for fast cutting of asphalt		5	49
68300105	DS 350 x 3.2 x 25.4 AS SG	Diamond cut-off wheel DS 350x3.2x25.4 mm SG for fast cutting of asphalt		5	49
68300106	DS 400 x 3.6 x 25.4 AS SG	Diamond cut-off wheel DS 400x3.6x25.4 mm SG for fast cutting of asphalt		5	49
68300107	DS 450 x 3.6 x 25.4 AS SG	Diamond cut-off wheel DS 450x3.6x25.4 mm SG for fast cutting of asphalt		5	49

Item number	Abbreviation	Description	Image	Catalogue	Page
68300108	DS 115x2,8x22,23 VG	Diamond cut-off wheel DS 115x2.8x22.23 mm vacuum-brazed for fast cutting of grey and nodular cast iron		5	49
68300109	DS 125x2,8x22,23 VG	Diamond cut-off wheel DS 125x2.8x22.23 mm vacuum-brazed for fast cutting of grey and nodular cast iron		5	49
68300110	DS 180x3,1x22,23 VG	Diamond cut-off wheel DS 180x3.1x22.23 mm vacuum-brazed for fast cutting of grey and nodular cast iron		5	49
68300111	DS 230x3,1x22,23 VG	Diamond cut-off wheel DS 230x3.1x22.23 mm vacuum-brazed for fast cutting of grey and nodular cast iron		5	49
68000058	DG 150X2,2X22,23 SG	Diamond cut-off wheel DG 150x2.2x22.23 mm SG for cutting stone/concrete, high cutting quality		5	50
68000025	DG 76x1.6x10 FL PSF	Diamond cut-off wheel DG FL 76x1.6x10 mm PSF for cutting tiles, high cutting quality		5	51
68000026	DG 150x2.2x22.23 FL PSF	Diamond cut-off wheel DG FL 150x2.2x22.23 mm PSF for cutting tiles, high cutting quality		5	51
68000027	DG 150x1.6x22.23 FL SG	Diamond cut-off wheel DG FL 150x1.6x22.23 mm SG for cutting tiles, high cutting quality		5	51
68000028	DG 178x2.0x22.23 FL SG	Diamond cut-off wheel DG FL 178x2.0x22.23 mm SG for cutting tiles, high cutting quality		5	51

Item number	Abbreviation	Description	Image	Catalogue	Page
68000030	DG 200x2.0x25.4 FL SG	Diamond cut-off wheel DG FL 200x2.0x25.4 mm SG for cutting tiles, high cutting quality		5	51
68000029	DG 230x2.0x22.23 FL SG	Diamond cut-off wheel DG FL 230x2.0x22.23 mm SG for cutting tiles, high cutting quality		5	51
68000033	DG 250x2.0x25.4 FL SG	Diamond cut-off wheel DG FL 250x2.0x25.4 mm SG for cutting tiles, high cutting quality		5	51
68000034	DG 300x2.4x25.4 FL SG	Diamond cut-off wheel DG FL 300x2.4x25.4 mm SG for cutting tiles, high cutting quality		5	51
68000035	DG 350x2.4x25.4 FL SG	Diamond cut-off wheel DG FL 350x2.4x25.4 mm SG for cutting tiles, high cutting quality		5	51
68300112	DPD 5 FL HEX	Dry diamond drill bit DPD FL dia. 5 mm hexagon shank for tiles (power drill)		5	53
68300113	DPD 6 FL HEX	Dry diamond drill bit DPD FL dia. 6 mm hexagon shank for tiles (power drill)		5	53
68300114	DPD 8 FL HEX	Dry diamond drill bit DPD FL dia. 8 mm hexagon shank for tiles (power drill)		5	53
68300115	DPD 10 FL HEX	Dry diamond drill bit DPD FL dia. 10 mm hexagon shank for tiles (power drill)		5	53

Item number	Abbreviation	Description	Image	Catalogue	Page
68300116	DPD 12 FL HEX	Dry diamond drill bit DPD FL dia. 12 mm hexagon shank for tiles (power drill)		5	53
68300117	DPD 5 FL M14	Dry diamond drill bit DPD FL dia. 5 mm M14 for tiles (angle grinder)		5	53
68300118	DPD 6 FL M14	Dry diamond drill bit DPD FL dia. 6 mm M14 for tiles (angle grinder)		5	53
68300119	DPD 8 FL M14	Dry diamond drill bit DPD FL dia. 8 mm M14 for tiles (angle grinder)		5	53
68300120	DPD 10 FL M14	Dry diamond drill bit DPD FL dia. 10 mm M14 for tiles (angle grinder)		5	53
68300121	DPD 12 FL M14	Dry diamond drill bit DPD FL dia. 12 mm M14 for tiles (angle grinder)		5	53
68300122	DCD 20XM14 FL	Dry diamond drill bit DCD FL dia. 20 mm M14 for tiles (angle grinder)		5	54
68300123	DCD 22XM14 FL	Dry diamond drill bit DCD FL dia. 22 mm M14 for tiles (angle grinder)		5	54
68300124	DCD 25XM14 FL	Dry diamond drill bit DCD FL dia. 25 mm M14 for tiles (angle grinder)		5	54

Item number	Abbreviation	Description	Image	Catalogue	Page
68300125	DCD 27XM14 FL	Dry diamond drill bit DCD FL dia. 27 mm M14 for tiles (angle grinder)		5	54
68300126	DCD 30XM14 FL	Dry diamond drill bit DCD FL dia. 30 mm M14 for tiles (angle grinder)		5	54
68300127	DCD 32XM14 FL	Dry diamond drill bit DCD FL dia. 32 mm M14 for tiles (angle grinder)		5	54
68300128	DCD 35XM14 FL	Dry diamond drill bit DCD FL dia. 35 mm M14 for tiles (angle grinder)		5	54
68300129	DCD 38XM14 FL	Dry diamond drill bit DCD FL dia. 38 mm M14 for tiles (angle grinder)		5	54
68300130	DCD 40XM14 FL	Dry diamond drill bit DCD FL dia. 40 mm M14 for tiles (angle grinder)		5	54
68300131	DCD 45XM14 FL	Dry diamond drill bit DCD FL dia. 45 mm M14 for tiles (angle grinder)		5	54
68300132	DCD 51XM14 FL	Dry diamond drill bit DCD FL dia. 51 mm M14 for tiles (angle grinder)		5	54
68300133	DCD 55XM14 FL	Dry diamond drill bit DCD FL dia. 55 mm M14 for tiles (angle grinder)		5	54

Item number	Abbreviation	Description	Image	Catalogue	Page
68300134	DCD 60XM14 FL	Dry diamond drill bit DCD FL dia. 60 mm M14 for tiles (angle grinder)		5	54
68300135	DCD 65XM14 FL	Dry diamond drill bit DCD FL dia. 65 mm M14 for tiles (angle grinder)		5	54
68300136	DCD 68XM14 FL	Dry diamond drill bit DCD FL dia. 68 mm M14 for tiles (angle grinder)		5	54
68300137	DCD 70XM14 FL	Dry diamond drill bit DCD FL dia. 70 mm M14 for tiles (angle grinder)		5	54
68200002	POS MULTI POWER CARBIDE WHEEL DS 125X1,2X22,23	Multi Power carbide cut-off wheel DS 125x1.2x22.23 mm for cutting all kinds of materials		5	55
Cut-off wheels, flap discs and grinding wheels					
61329510	100 EHT 350-4,0 PSF STEEL/20,0	Cut-off wheel cut-off grinder EHT 350x4.0x20 mm PSF STEEL for steel (100 m/s)		6	23
61329515	100 EHT 350-4,0 PSF STEEL/25,4	Cut-off wheel cut-off grinder EHT 350x4.0x25.4 mm PSF STEEL for steel (100 m/s)		6	23
Cut-off wheels for stationary applications					
73001322	100 T 350-4,0 Q PSF RAIL STEEL/22,23	Rail cut-off wheel T 350x4.0x22.23 mm Universal Line PSF RAIL for railway rails		7	16

Cut-off wheels for stationary applications

Item number	Abbreviation	Description	Image	Catalogue	Page
73001310	100 T 400-4,0 Q PSF RAIL STEEL/25,4	Rail cut-off wheel T 400x4.0x25.4 mm Universal Line PSF RAIL for railway rails		7	16
66323664	100 T 350-4,0 R SG RAIL STEEL/22,23	Rail cut-off wheel T 350x4.0x22.23 mm Performance Line SG RAIL for railway rails		7	17
66323665	100 T 350-4,0 R SG RAIL STEEL/25,4	Rail cut-off wheel T 350x4.0x25.4 mm Performance Line SG RAIL for railway rails		7	17
Industrial power brushes					
43468881	POS TBU 60/M14 LIT STM 0,25	Cup brush crimped TBU dia. 60 mm M14 brass-plated steel cord wire dia. 0.25 mm angle grinders		8	14
43316007	POS KBU 10010/M14 LIT STM 0,20	Bevel brush crimped KBU dia. 100x10 mm M14 brass-plated steel cord wire dia. 0.25 mm angle grinders		8	17
43316008	POS KBU 10010/M14 LIT INOX 0,30	Bevel brush crimped KBU dia. 100x10 mm M14 stainless steel cord wire dia. 0.30 mm angle grinders		8	17
43502203	POS RBU 11515/M14 LIT STM 0,20	Wheel brush crimped RBU dia. 115x15 mm M14 brass-plated steel cord wire dia. 0.20 mm angle grinders		8	20
43502303	POS RBU 12515/M14 LIT STM 0,20	Wheel brush crimped RBU dia. 125x15 mm M14 brass-plated steel cord wire dia. 0.20 mm angle grinders		8	20

Industrial power brushes

Item number	Abbreviation	Description	Image	Catalogue	Page
43502204	POS RBU 11515/M14 LIT INOX 0,30	Wheel brush crimped RBU dia. 115x15 mm M14 stainless steel cord wire dia. 0.30 mm angle grinders		8	20
43502304	POS RBU 12515/M14 LIT INOX 0,30	Wheel brush crimped RBU dia. 125x15 mm M14 stainless steel cord wire dia. 0.30 mm angle grinders		8	20
43210005	TBU 5010/6 LIT STM 0,25	Cup brush crimped TBU dia. 50 mm shank dia. 6 mm brass-plated steel cord wire dia. 0.25 mm		8	43
43220062	KBU 7010/6 LIT STM 0,25	Bevel brush crimped KBU dia. 70x10 mm shank dia. 6 mm brass-plated steel cord wire dia. 0.25 mm		8	45
43105005	RBU 7015/6 LIT STM 0,25	Wheel brush crimped RBU dia. 70x15 mm shank dia. 6 mm brass-plated steel cord wire dia. 0.25 mm		8	48
43210008	RBUIT 5015/6 SIC 180 0.90 KS	INOX-TOTAL wheel brush crimped RBUIT dia. 50x15 mm shank dia. 6 mm SiC filament dia. 0.90 mm grit 180 plastic side plates		8	54
43105006	RBUIT 7015/6 SIC 180 0,90 KS	INOX-TOTAL wheel brush crimped RBUIT dia. 70x15 mm shank dia. 6 mm SiC filament dia. 0.90 mm grit 180 plastic side plates		8	54
43210006	TBUIT 5010/6 INOX 0,30	INOX-TOTAL cup brush crimped RBUIT dia. 50 mm shank dia. 6 mm stainless steel wire dia. 0.30 mm		8	56
43210007	TBUIT 5010/6 SiC 180 0,90	INOX-TOTAL cup brush crimped RBUIT dia. 50 mm shank dia. 6 mm SiC filament dia. 0.90 mm grit 180		8	56

Tool drives

Item number	Abbreviation	Description	Image	Catalogue	Page
87101807	HAQ 10 G28 RS	Robot spindle HAQ 10 G28 RS max. 18,000 RPM		9	14
87100989	WT 10 G28 RS	Robot spindle WT 10 G28 RS max. 12,000 RPM		9	14
80101070	PGAS 10/200 ME-HV	Air-powered straight grinder PGAS 10/200 ME-HV 20,000 RPM/1,000 watts		9	27
80300010	PH 8 P EG01	Air-powered chisel hammer PH 8 with pistol grip insertion group EG01 lightweight up to 0.8 kg		9	48
80300020	PH 8 P EG02	Air-powered chisel hammer PH 8 with pistol grip insertion group EG02 lightweight up to 0.8 kg		9	49
80300030	PH 13 F EG03	Air-powered chisel hammer PH 13 with fist grip insertion group EG03 lightweight up to 3.4 kg		9	49
80300050	PH 13 F EG05	Air-powered chisel hammer PH 13 with fist grip insertion group EG05 lightweight up to 3.4 kg		9	49
80300060	PH 18 F EG03	Air-powered chisel hammer PH 18 with fist grip insertion group EG03 lightweight up to 3.4 kg		9	49
80300070	PH 18 F EG05	Air-powered chisel hammer PH 18 with fist grip insertion group EG05 lightweight up to 3.4 kg		9	50

Item number	Abbreviation	Description	Image	Catalogue	Page
80300080	PH 18 F-SK EG05	Air-powered chisel hammer PH 18 with fist grip SK insertion group EG05 lightweight up to 3.4 kg		9	50
80300090	PH 23 F EG03	Air-powered chisel hammer PH 23 with fist grip insertion group EG03 lightweight up to 3.4 kg		9	50
80300110	PH 23 F EG05	Air-powered chisel hammer PH 23 with fist grip insertion group EG05 lightweight up to 3.4 kg		9	50
80300120	PH 34 F EG03	Air-powered chisel hammer PH 34 with fist grip insertion group EG03 lightweight up to 3.4 kg		9	51
80300130	PH 34 F EG05	Air-powered chisel hammer PH 34 with fist grip insertion group EG05 lightweight up to 3.4 kg		9	51
80300140	PH 66 F-SK EG06	Air-powered chisel hammer PH 66 with fist grip SK insertion group EG06 up to 6.6 kg for heavy-duty use		9	51
80300150	PH 66 F-SK EG07	Air-powered chisel hammer PH 66 with fist grip SK insertion group EG07 up to 6.6 kg for heavy-duty use		9	51
80300160	PH 66 F-SK EG08	Air-powered chisel hammer PH 66 with fist grip SK insertion group EG08 up to 6.6 kg for heavy-duty use		9	52
98989011	FM 150X15 EG01	Flat chisel with working length of 150 mm x 15 mm cutting width / insertion group EG01		9	52

Item number	Abbreviation	Description	Image	Catalogue	Page
98989023	FM 125X15 EG02	Flat chisel with working length of 125 mm x 15 mm cutting width / insertion group EG02		9	52
98989024	FM 250X15 EG02	Flat chisel with working length of 250 mm x 15 mm cutting width / insertion group EG02		9	52
98989025	BM 125X40 EG02	Wide chisel with working length of 125 mm x 15 mm cutting width / insertion group EG02		9	52
98989022	SM 125 EG02	Pointed chisel with working length 125 mm / insertion group EG02		9	52
98989021	SM 200 EG02	Pointed chisel with working length 200 mm / insertion group EG02		9	52
98989032	FM 135X20 EG03	Flat chisel with working length of 135 mm x 20 mm cutting width / insertion group EG03		9	52
98989031	SM 150 EG03	Pointed chisel with working length 150 mm / insertion group EG02		9	52
98989053	FM 200X15 EG05	Flat chisel with working length of 200 mm x 15 mm cutting width / insertion group EG05		9	53
98989054	FM 200X20 EG05	Flat chisel with working length of 200 mm x 20 mm cutting width / insertion group EG05		9	53

Item number	Abbreviation	Description	Image	Catalogue	Page
98989051	SM 200 EG05	Pointed chisel with working length 200 mm / insertion group EG05		9	53
98989052	SM 250 EG05	Pointed chisel with working length 250 mm / insertion group EG05		9	53
98989063	FM 190X20 EG06	Flat chisel with working length of 190 mm x 20 mm cutting width / insertion group EG06		9	53
98989064	FM 450X25-30 EG06	Flat chisel with working length of 450 mm x 25-30 mm cutting width / insertion group EG06		9	53
98989065	BM 200X60 EG06	Wide chisel with working length of 200 mm x 60 mm cutting width / insertion group EG06		9	53
98989061	SM 260 EG06	Pointed chisel with working length 260 mm / insertion group EG06		9	53
98989062	SM 350 EG06	Pointed chisel with working length 350 mm / insertion group EG06		9	53
98989073	FM 260X30 EG07	Flat chisel with working length of 260 mm x 30 mm cutting width / insertion group EG07		9	53
98989074	FM 450X30 EG07	Flat chisel with working length of 450 mm x 30 mm cutting width / insertion group EG07		9	53

Tool drives

Item number	Abbreviation	Description	Image	Catalogue	Page
98989071	SM 250 EG07	Pointed chisel with working length 250 mm / insertion group EG07		9	53
98989072	SM 450 EG07	Pointed chisel with working length 450 mm / insertion group EG07		9	53
98989083	FM 250X25 EG08	Flat chisel with working length of 250 mm x 25 mm cutting width / insertion group EG08		9	54
98989084	FM 450X25 EG08	Flat chisel with working length of 450 mm x 25 mm cutting width / insertion group EG08		9	54
98989081	SM 250 EG08	Pointed chisel with working length 250 mm / insertion group EG08		9	54
98989082	SM 600 EG08	Pointed chisel with working length 600 mm / insertion group EG08		9	54
98988201	DR D12X7	Chisel damping ring diameter 12 mm x length 7 mm		9	54
98988203	DR D14X8	Chisel damping ring diameter 14 mm x length 8 mm		9	54
98988202	DR D15X7	Chisel damping ring diameter 15 mm x length 7 mm		9	54

Tool drives

Item number	Abbreviation	Description	Image	Catalogue	Page
98988206	DR D17X10	Chisel damping ring diameter 17 mm x length 10 mm		9	54
98988204	DR D24,2X35	Chisel damping ring diameter 24.2 mm x length 35 mm		9	54
98988205	DR D24,7X45	Chisel damping ring diameter 24.7 mm x length 45 mm		9	54
98988001	MHF 28	Chisel holding spring internal diameter: 28 mm		9	54
98988002	MHF 31	Chisel holding spring internal diameter: 31 mm		9	54
98988004	MHF 28-B	Chisel holding spring internal diameter: 28 mm for wide chisel		9	54
98988005	MHF 31-B	Chisel holding spring internal diameter: 31 mm for wide chisel		9	54
98988003	MHF 31-R	Chisel holding spring internal diameter: 31 mm round		9	54
80708501	PH 8/90 HV	Chipping hammer PH 8/90 HV number of blows: 9,000 bpm, stroke frequency: 150 Hz		9	55

Item number	Abbreviation	Description	Image	Catalogue	Page
98989001	HM-FM 100X10	Flat chisel with tungsten carbide insert in the 100 x 10 mm version		9	55
98989002	HM-FM 100X17	Flat chisel with tungsten carbide insert in the 100 x 17 mm version		9	55
98989003	HM-FM 100X36	Flat chisel with tungsten carbide insert in the 100 x 36 mm version		9	55
80600300	PN 18 HV	Straight needle scaler with 18 needles		9	56
80600310	PN 19 P	Needle scaler with fist grip, 19 needles		9	57
80600320	PN 28 P	Needle scaler with fist grip, 28 needles		9	57
98989901	ENS-PN 18 HV-127 mm	Needle scaler – spare needle set with 18 needles, length 127 mm		9	57
98989902	ENS-PN 19 P-140 mm	Needle scaler – spare needle set with 19 needles, length 140 mm		9	57
98989903	ENS-PN 28 P-140 mm	Needle scaler – spare needle set with 28 needles, length 140 mm		9	57

Tool drives

Item number	Abbreviation	Description	Image	Catalogue	Page
80801235	TGA 8 1/4 ST	Screw-on nozzle TGA 8 with male thread 1/4" steel version		9	59
80801234	TGA 10 1/4 ST	Screw-on nozzle TGA 10 with male thread 1/4" steel version		9	59
80801233	TGA 13 3/8 ST	Screw-on nozzle TGA 13 with male thread 3/8" steel version		9	59
80800040	DGT 1/4	Revolving nozzle in 1/4"		9	60
80800070	DGT 3/4	Revolving nozzle in 3/4"		9	60
80800060	DGT 3/8	Revolving nozzle in 3/8"		9	60
87200247	FD 47-13,5-29,6	Frequency damper FD 47-13.5-29.6		9	60
83001001	RCK STG 10/800 L-BOXX	Control device in L-BOXX RCK STG 10/800 80,000 RPM/1,560 watts		9	61
83001002	RCK STG 10/800 GR L-BOXX	Control device complete with grip in L-BOXX RCK STG 10/800 80,000 RPM/1,560 watts		9	61

Tool drives

Item number	Abbreviation	Description	Image	Catalogue	Page
83002006	RCK GS 1/700	Straight handpiece RCK GS 1/700 70,000-35,000 RPM/120 watts		9	62
83004003	RCK GS 4/50	Straight handpiece RCK GS 4/50 5,000-2,500 RPM/380 watts		9	64
83004011	RCK WS 4/200 90°	Angle handpiece RCK WS 4/200 90° 20,000-10,000 RPM/380 watts		9	65
83004012	RCK WS 4/100 90°	Angle handpiece RCK WS 4/100 90° 10,000-5,000 RPM/380 watts		9	65
83004021	RCK B 4/200	Belt grinder handpiece RCK B 4/200 20,000-10,000 RPM/380 watts		9	65
83004022	RCK B 4/100	Belt grinder handpiece RCK B 4/100 10,000-5,000 RPM/380 watts		9	65
98990013	RCK SL L-BOXX	Rapid charger RCK SL in L-BOXX		9	66
98990023	RCK NT L-BOXX	Power supply unit RCK NT in L-BOXX		9	67
98991074	RCK HA A-SET	Handpiece support set RCK HA SUPPORT SET		9	68

Tool drives

Item number	Abbreviation	Description	Image	Catalogue	Page
98991100	RCK GR STG KPL	Grip RCK GR STG KPL for control device		9	68
86200044	HA 7 G22 SM	Straight handpiece HA 7 G22 with 6 mm collet and clamping nut max. RPM 25,000		9	90 / 95
98988410	HS MHF	C-wrench HS MHF		9	117
90014015	STS D2,35mm	Allen key STS D 2.5 mm		9	117
90014014	SPS VK 4 mm	Collet key SPS VK 4 mm		9	117

PFERD TOOLS

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Subject to technical modifications.

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PFERD quality is certified according to ISO 9001.

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