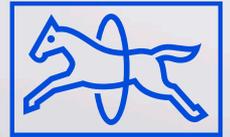


PFERD



TOOLS



Fine grinding and polishing tools

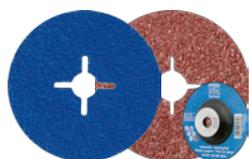
Fine grinding and polishing tools

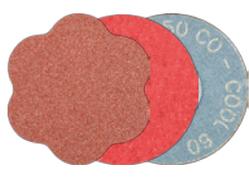
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Fine grinding and polishing tools

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.



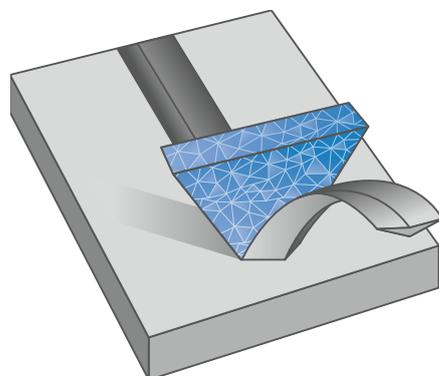
VICTOGRAIN

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 **VICTOGRAIN** 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 **VICTOGRAIN** 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.



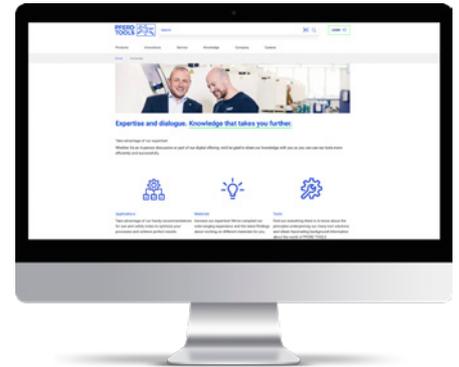
Fine grinding and polishing tools

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:

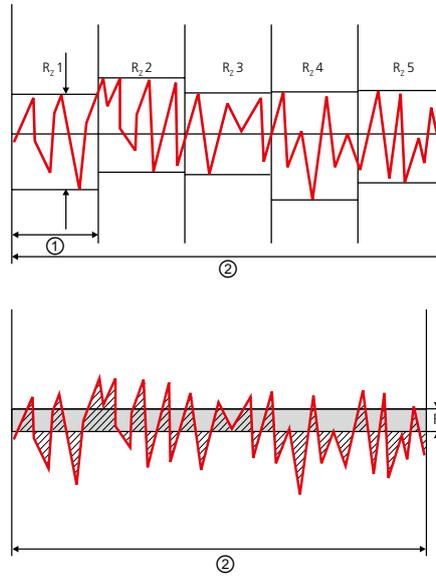
The abrasive material, the material you will be working on and the machining parameters all affect the surface roughness. As a general rule:

- 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:

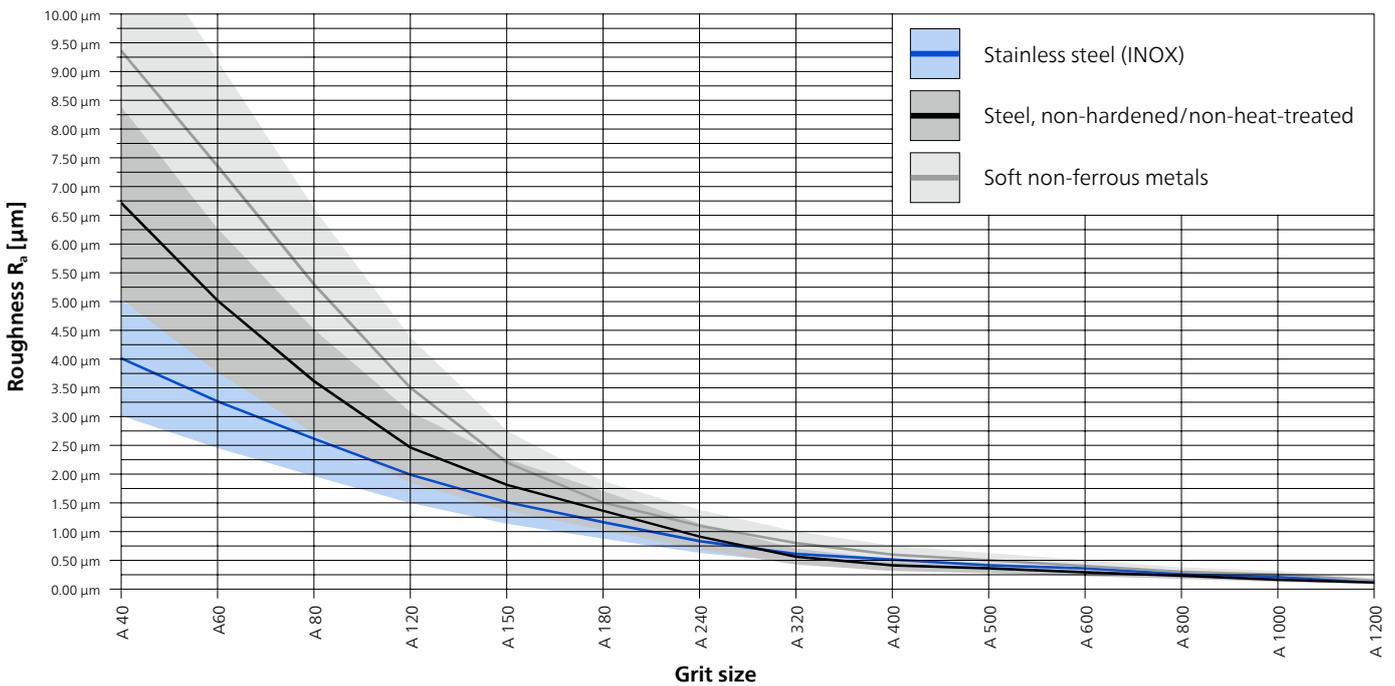
- Individual roughness depth R_{z_i}**
 The sum of the height of the largest profile peak and the depth of the largest profile trough within an individual measuring section.
- Roughness depth R_z**
 The mean value of the individual roughness depths (R_{z_i}) of consecutive individual measuring sections.
- Roughness depth $R_{z_{max}}$**
 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 $12 \mu\text{m}$
Fine grinding: grit sizes 180 to 400	$R_a = 0.20$ to $0.70 \mu\text{m}$
Very fine grinding: grit sizes 500 to 1,200	$R_a = 0.05$ to $0.20 \mu\text{m}$
Structuring: surfaces ground	$R_a = 0.20$ to $0.70 \mu\text{m}$
Satin finishing/matt finishing: with non-woven abrasive	$R_a = 0.10$ to $0.70 \mu\text{m}$
Polishing: Step 1:	$R_a = 0.10$ to $0.20 \mu\text{m}$
Step 2:	$R_a = 0.04$ to $0.10 \mu\text{m}$
Step 3:	$R_a < 0.01 \mu\text{m}$

Reference values for roughness depths in the case of different applications.

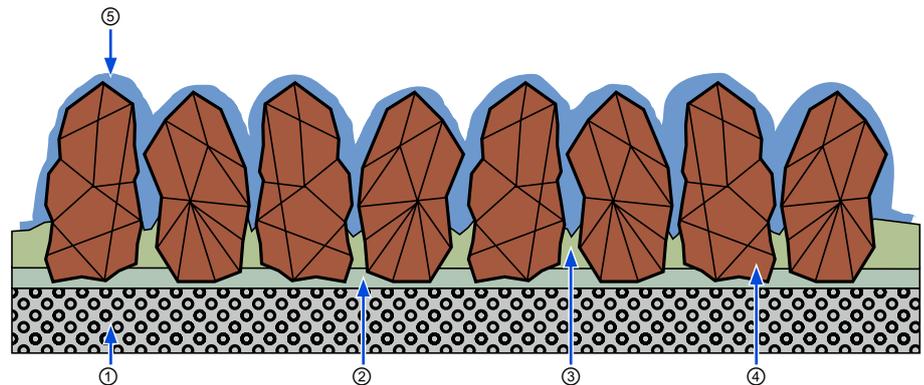


Surface roughness of different materials after machining with tools using coated abrasives.

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 wood-working 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.

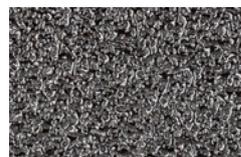
④ Abrasive grain

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.



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.



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.



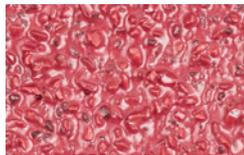
Diamond grain D

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.



Fine grinding and polishing tools

Coated abrasives



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



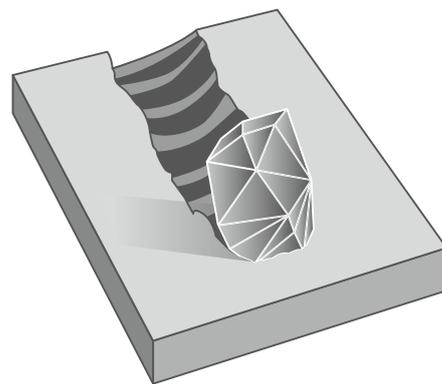
Fine

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.





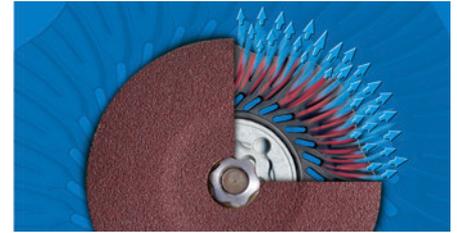
System

Very easy and convenient to use.



Clamping

Extremely quick and easy tool changes, which reduces process costs.



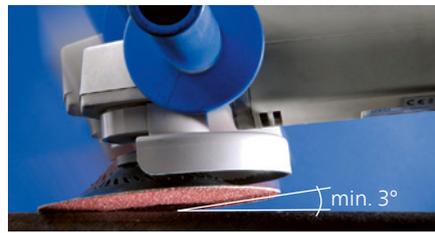
Cooling effect

Excellent cooling of the tool and workpiece.



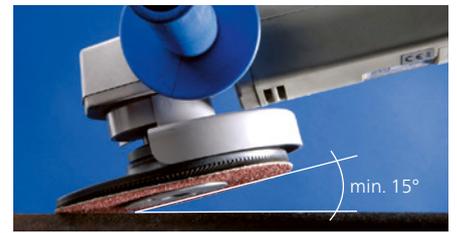
Flexible grinding

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	Zircon	Ceramic oxide	VICTOGRAIN	Silicon carbide	Aluminium oxide	Ceramic oxide	Ceramic oxide	VICTOGRAIN-COOL
			A	Z	grain CO		SiC	A-COOL	grain CO-COOL (PLUS)	grain CO-ALU	
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



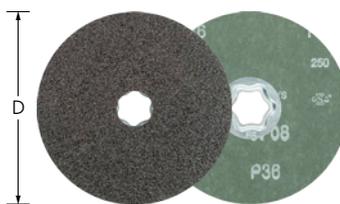
Aluminium oxide A version

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
115	A	36	13,300	25	64190003	CC-FS 115 A 36
		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



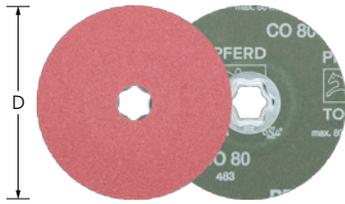
Silicon carbide SiC version

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



Ceramic oxide grain CO-COOL version

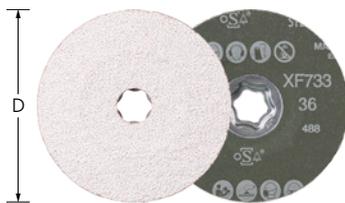
Consistently high performance and aggressive grinding due to self-sharpening ceramic oxide grain. Active grinding additives improve the stock removal rate, prevent clogging and result in cooler grinding on hard materials which do not conduct heat well.



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
115	CO-COOL	36	13,300	1	64193003	CC-FS 115 CO-COOL 36
		60	13,300	1	64193006	CC-FS 115 CO-COOL 60
		80	13,300	1	64193008	CC-FS 115 CO-COOL 80
		120	13,300	1	64193012	CC-FS 115 CO-COOL 120
180	CO-COOL	36	8,500	1	64193303	CC-FS 180 CO-COOL 36
		60	8,500	1	64193306	CC-FS 180 CO-COOL 60
		80	8,500	1	64193308	CC-FS 180 CO-COOL 80



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.

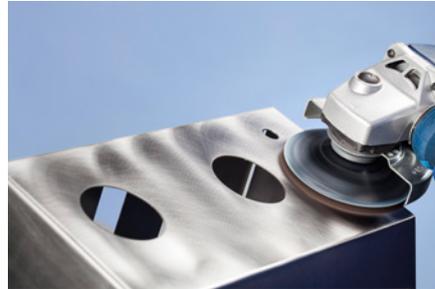
D [mm]	Abrasive	Grit size	Max. RPM		Item no.	Designation
115	CO-ALU	36	13,300	25	64194003	CC-FS 115 CO-ALU 36
		60	13,300	25	64194006	CC-FS 115 CO-ALU 60
		80	13,300	25	64194008	CC-FS 115 CO-ALU 80





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
115	A	100	medium	3,300	10,500	1	42001052	CC-VRW 115 A 100
		180	fine	3,300	10,500	1	42001051	CC-VRW 115 A 180
		280	very fine	3,300	10,500	1	42001050	CC-VRW 115 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
115	A	100 G	coarse, yellow-brown	3,300	10,500	1	42000052	CC-VRH 115 A 100 G
		180 M	medium, red-brown	3,300	10,500	1	42000051	CC-VRH 115 A 180 M
		240 F	fine, blue	3,300	10,500	1	42000050	CC-VRH 115 A 240 F



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
115	SiC	MW (medium-soft)	fine	5,000	8,350	1	42002086	CC-PNER MW 115 SiC F
		MH (medium-hard)	fine	5,000	8,350	1	42002146	CC-PNER MH 115 SiC F
	A	H (hard)	fine	5,000	8,350	1	42002182	CC-PNER H 115 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	1	44692275	CC-PCLD PLUS 115
125	A	1	44692276	CC-PCLD PLUS 125



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	1	44692273	CC-PCLD 115
125	SiC	1	44692274	CC-PCLD 125



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
115	1,650	10,500	1	42003015	CC-FR 115

4

Backing pad



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
115, 125	M14	medium	Angle grinders 115 / 125, spindle M14	13,300	1	44890150	CC-GT 115-125 M14
180	M14	medium	Angle grinders 180, spindle M14	8,500	1	44890170	CC-GT 180 M14

The quick way to find the perfect tool

			Abrasive ▶								
Material group ▼			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!

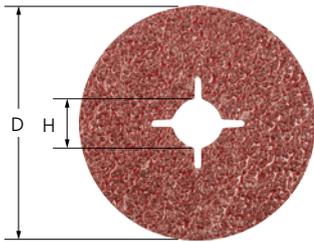


Follow the safety instructions!



Not permitted for wet grinding!





Aluminium oxide A version

For general grinding work from coarse to fine grinding in industry and professional trades.

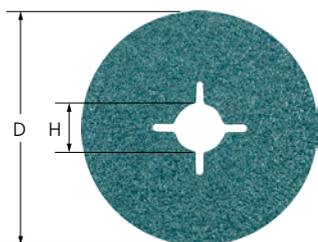


Special features:

- 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	24	13,300	25	64102111	FS 115-22 A 24
			36	13,300	25	64103111	FS 115-22 A 36
			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
125	22	A	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
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
230	22	A	36	6,650	25	64103235	FS 230-22 A 36
			60	6,650	25	64106235	FS 230-22 A 60
			80	6,650	25	64108235	FS 230-22 A 80
unslotted							
100	16	A	24	15,300	25	69401016	FS 100-16 A 24
			36	15,300	25	69401015	FS 100-16 A 36
			60	15,300	25	69401023	FS 100-16 A 60
			80	15,300	25	69401024	FS 100-16 A 80





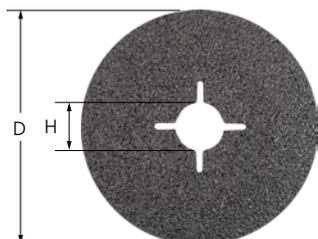
Zirconia alumina Z version

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	36	13,300	25	69400005	FS 115-22 Z 36 (ZA)
			60	13,300	25	69400006	FS 115-22 Z 60 (ZA)
			80	13,300	25	69400007	FS 115-22 Z 80 (ZA)
			100	13,300	25	69400008	FS 115-22 Z 100 (ZA)
180	22	Z	24	8,500	25	69400009	FS 180-22 Z 24 (ZA)
			36	8,500	25	69400010	FS 180-22 Z 36 (ZA)
			60	8,500	25	69400011	FS 180-22 Z 60 (ZA)
			80	8,500	25	69400012	FS 180-22 Z 80 (ZA)



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:

- 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							
180	22	SiC	16	8,500	1	69400002	FS 180-22 SiC 16
			24	8,500	1	69400003	FS 180-22 SiC 24
			60	8,500	25	69401542	FS 180-22 SiC 60 ZA

Backing pad



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
115	M14	Angle grinders 115, spindle M14	13,300	1	44890030	GT 115 MF M14
180	M14	Angle grinders 180, spindle 5/8"	8,500	1	47601124	GT 180 MF 5/8
		Angle grinders 180, spindle M14	8,500	1	44890060	GT 180 MF M14
230	M14	Angle grinders 230, spindle M14	6,650	1	44890070	GT 230 MF M14



Fibre discs

Backing pad



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
180	M14	Angle grinders 180, spindle M14	8,500	1	44890100	H-GT 180 MF M14



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!



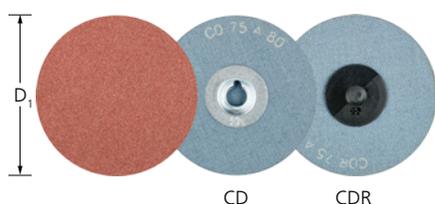
Wear a dust mask!



Follow the safety instructions!

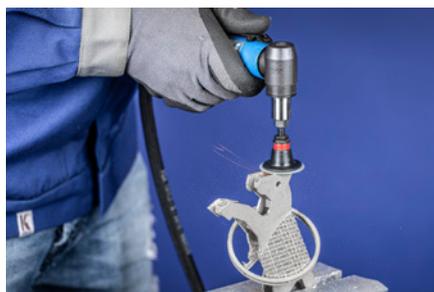


Abrasive discs CD, CDR



Aluminium oxide A version

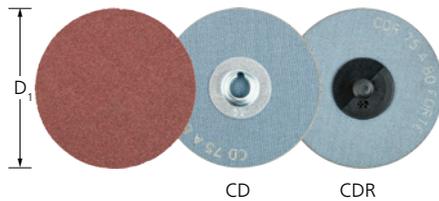
For general coarse to fine grinding applications in industry and professional trades.



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						
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



Aluminium oxide A-FORTE version

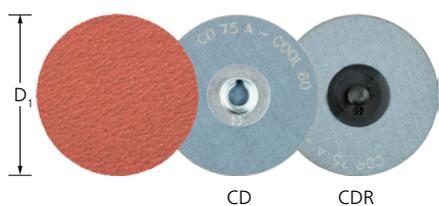
For general applications from coarse to fine grinding, with a high stock removal rate and long tool life.



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 						
50	A-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
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
50	A-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	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.

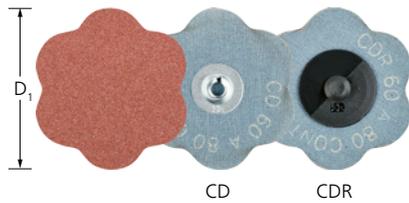


Special features:

- 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
CDR system 						
50	A-COOL	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-CONTOUR version

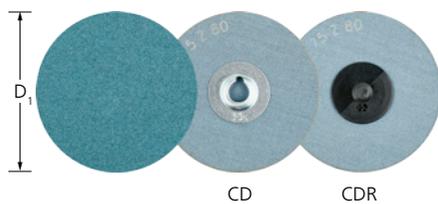
Very flexible and adaptable on account of the outer contour. Cutting into the workpiece is avoided.



Special features:

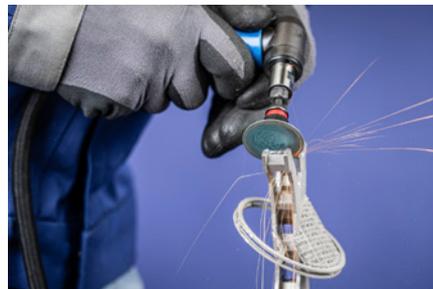
- Very comfortable due to ease of use and low-vibration working.
- No disruptions in use due to adhesion, slipping or coming loose.
- High economic efficiency as tool can be changed quickly thanks to innovative COMBIDISC clamping system. Please order abrasive disc holder separately.

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
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

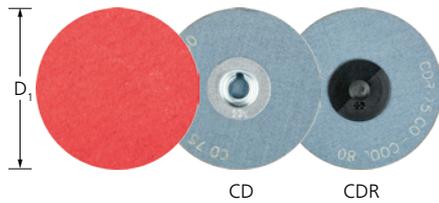
For coarse grinding work with a high stock removal rate and a long tool life. Particularly high stock removal rate in coarse grinding applications using grit sizes 36 and 60.



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 						
50	Z	60	3,800 – 13,000	100	42753506	CD 50 Z 60
		80	3,800 – 13,000	100	42753508	CD 50 Z 80
75	Z	60	2,500 – 9,000	50	42753706	CD 75 Z 60
		80	2,500 – 9,000	50	42753708	CD 75 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.

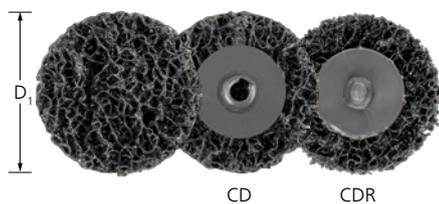


Special features:

- 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
CDR system 						
50	CO-COOL	60	3,800 – 13,000	100	42776506	CDR 50 CO-COOL 60
		80	3,800 – 13,000	100	42776508	CDR 50 CO-COOL 80
75	CO-COOL	60	2,500 – 9,000	50	42776706	CDR 75 CO-COOL 60
		80	2,500 – 9,000	50	42776708	CDR 75 CO-COOL 80

POLICLEAN discs CD, CDR



POLICLEAN standard type

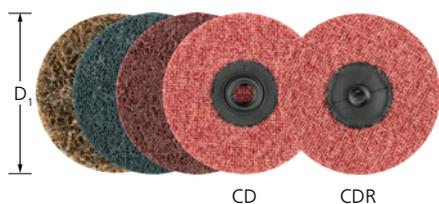
POLICLEAN is a coarsely structured, abrasive, non-woven cleaning fabric made from a special combination of synthetic fibres, resin and abrasive grain. For coarse cleaning work, e.g. removing paint, scale, heat discolouration, rust and adhesive residue.

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





Hard type VRH

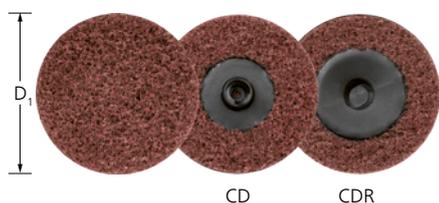
Suitable for general work on small and medium-sized metal surfaces, e.g. removing rough grinding traces, removing oxidation and light deburring work. Achieve matt and satin-finished surfaces.



Special features:

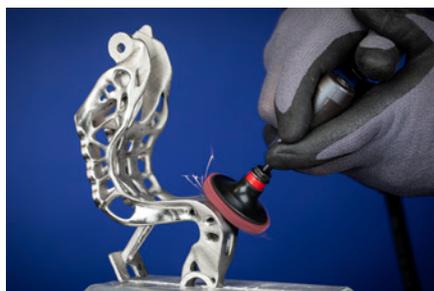
- Very comfortable due to ease of use and low-vibration working.
- No disruptions in use due to adhesion, slipping or coming loose.
- High economic efficiency as tool can be changed quickly thanks to innovative COMBIDISC clamping system. Please order abrasive disc holder separately.

D ₁ [mm]	Abrasive	Grit size	Version	Opt. RPM		Item no.	Designation
CDR system 							
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



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
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



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
CDR system 								
50	W (soft)	A	G (coarse)	9,500	19,100	1	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	1	42779102	CDR PNER-MH 5006 A F
		SiC	F (fine)	9,500	19,100	1	42779104	CDR PNER-MH 5006 SiC F
	H (hard)	A	G (coarse)	9,500	19,100	1	42779141	CDR PNER-H 5006 A G
			F (fine)	9,500	19,100	1	42779142	CDR PNER-H 5006 A F

Felt discs CD, CDR



FR version

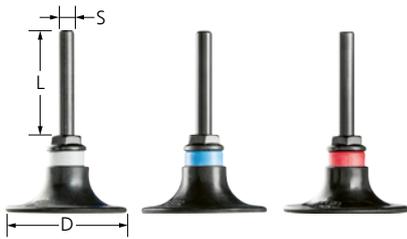
Suitable for polishing with polishing paste bars, grinding pastes or diamond polishing pastes in face-down grinding on small and medium-sized surfaces.



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



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							
25	6	40	M (medium)	38,000	1	42721252	SBH 25 M
50	6	40	W (soft)	19,000	1	42721503	SBH 50 W
			M (medium)	19,000	1	42721502	SBH 50 M
75	6	40	W (soft)	12,500	1	42721753	SBH 75 W
			M (medium)	12,500	1	42721752	SBH 75 M
CDR system							
25	6	40	M (medium)	38,000	1	42721262	SBHR 25 M
50	6	40	W (soft)	19,000	1	42721513	SBHR 50 W
			M (medium)	19,000	1	42721512	SBHR 50 M
75	6	40	W (soft)	12,500	1	42721763	SBHR 75 W
			M (medium)	12,500	1	42721762	SBHR 75 M

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!

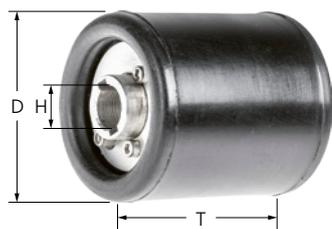


Follow the safety instructions!



Not permitted for wet grinding!





Pneumatic drum

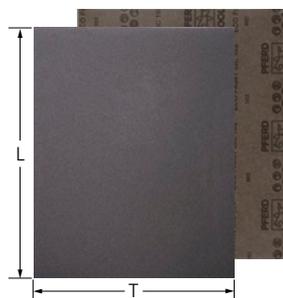
The pneumatic grinding drum is suitable for short belts with a width of 100 mm and a length of 282 mm. The rubber tube yields with increased contact pressure, which is why the abrasive belt adapts very well to the surface to be machined and the contact area increases.

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

Paper-backed abrasive sheets BP



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.

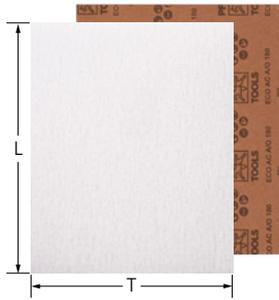
Special features:

- 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
2500	50	45015269	BP-W ECO PAINT 230X280 SiC 2500			

Flexible abrasives

Paper-backed abrasive sheets BP



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

Hand pads



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.



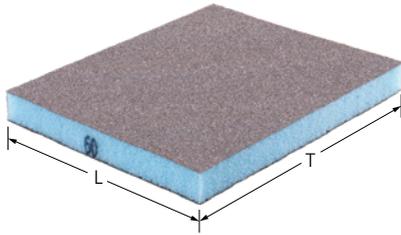
Special features:

- Highly flexible, enabling optimal adjustment to the contour.
- Hard-to-reach areas can be accessed.

L [mm]	T [mm]	Abrasive	Grit size		Item no.	Designation
200	100	A	280	1	47200065	PVSK 100x200 A 280 (5) ZA
			180	1	47200066	PVSK 100x200 A 240 GREEN XS (5) ZA
			320	1	47200022	PVSK 100x200 A 240 GREEN XS (20) ZA
220	140	A	280	1	47200024	PVSK 100x200 A 280 XS (20) ZA

Flexible abrasives

Sanding sponges set



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	1	44697650	ASP 69x98x26 4S A 60
				100	1	44697651	ASP 69x98x26 4S A 100
				180	1	44697652	ASP 69x98x26 4S A 180
98	120	2	A	60	1	44697653	ASP 98x120x13 2S A 60
				100	1	44697654	ASP 98x120x13 2S A 100
				180	1	44697655	ASP 98x120x13 2S A 180



4 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



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
75	10	A	180	1	47300016	VBR 75 mm x 10 m A 100 ZA
			240	1	47300027	VBR 75 mm x 10 m A 240 GREEN XS ZA
			280	1	47300004	VBR 75 mm x 10 m A 280 ZA
100	10	A	100	1	47300017	VBR 100 mm x 10 m A 100 ZA
			240	1	47300028	VBR 100 mm x 10 m A 240 GREEN XS ZA
			280	1	47300005	VBR 100 mm x 10 m A 280 ZA
150	10	A	100	1	47300018	VBR 150 mm x 10 m A 100 ZA
			240	1	47300029	VBR 150 mm x 10 m A 240 GREEN XS ZA
			280	1	47300007	VBR 150 mm x 10 m A 280 ZA
850	1	A	80	1	47300025	VBR 850 mm x 1 m A 80 ZA
			100	1	47300019	VBR 850 mm x 1 m A 100 ZA
		SiC	100	1	75603998	VBR 850 mm x 1 m SIC 100 ZA
		A	180	1	47300014	VBR 850 mm x 1 m A 180 ZA
			240	1	47300030	VBR 850 mm x 1 m A 240 GREEN XS ZA
				47300009	VBR 850 mm x 1 m A 280 XS ZA	



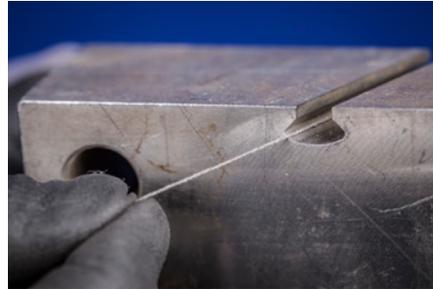
Flexible abrasives

Abrasive cord



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.

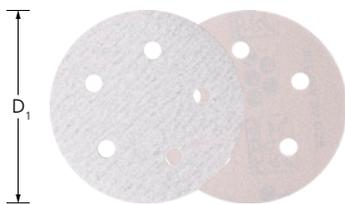


Special features:

- 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					
1	15	180	1	45019003	AC 1,0 mm x 15 m A 180
1.8	15	180	1	45019005	AC 1,8 mm x 15 m A 180

Hook and loop-backed abrasive discs KSS



ECO AC version

Hook and loop-backed abrasive discs with stearate non-stick coating (AC) 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.

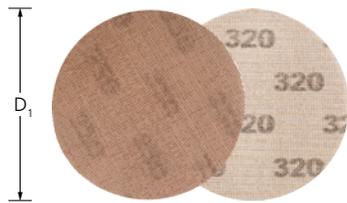
Special features:

- High efficiency thanks to rapid tool changes and maximum tool life.
- The non-stick coating (AC) prevents the hook and loop-backed abrasive disc from clogging with low wear.

D ₁ [mm]	Holes	Abrasive	Grit size		Item no.	Designation
150	6	A	60	25	45017795	KSS ECO AC 150 6L A 60
			80	25	45017796	KSS ECO AC 150 6L A 80
			100	25	45017797	KSS ECO AC 150 6L A 100
			120	25	45017798	KSS ECO AC 150 6L A 120
			150	25	45017799	KSS ECO AC 150 6L A 150
			180	25	45017800	KSS ECO AC 150 6L A 180
			220	25	45017801	KSS ECO AC 150 6L A 220
			240	25	45017802	KSS ECO AC 150 6L A 240
			320	25	45017803	KSS ECO AC 150 6L A 320
			400	25	45017804	KSS ECO AC 150 6L A 400
			600	25	45017805	KSS ECO AC 150 6L A 600
			800	25	45017806	KSS ECO AC 150 6L A 800
			1000	25	45017807	KSS ECO AC 150 6L A 1000

Flexible abrasives

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
		150	25	45018004	KSS NET 125 A 150
		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
		1000	25	45018011	KSS NET 125 A 1000
150	A	80	25	45018012	KSS NET 150 A 80
		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		



The quick way to find the perfect tool

			Abrasive ▶				
Material group ▼			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.

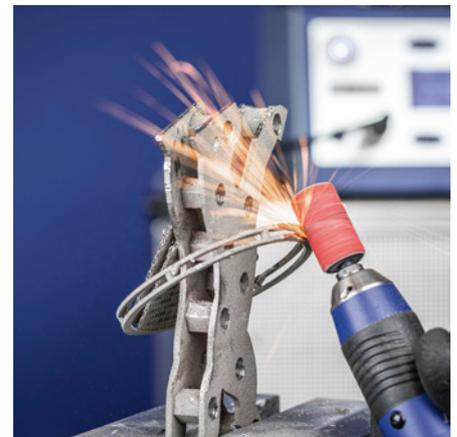
 Wear eye protection!

 Wear hearing protection!

 Wear gloves!

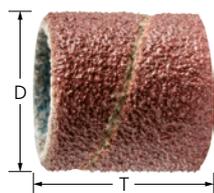
 Wear a dust mask!

 Follow the safety instructions!



Abrasive spiral bands

Small pack KSB



Aluminium oxide A version

For general applications from coarse to fine grinding.



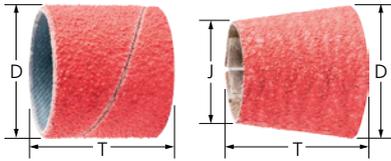
Special features:

- 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
13	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	30	A	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
22	20	A	60	18,000 – 26,000	25	42237105	KSB 2220 A 60
			80	18,000 – 26,000	25	42237108	KSB 2220 A 80
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	30	A	40	13,000 – 19,100	25	42239104	KSB 3030 A 40
			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
45	30	A	60	8,500 – 12,700	10	42240105	KSB 4530 A 60
			80	8,500 – 12,700	10	42240108	KSB 4530 A 80
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	60	6,500 – 9,500	10	42241105	KSB 6030 A 60
			80	6,500 – 9,500	10	42241108	KSB 6030 A 80
75	30	A	60	5,000 – 7,600	10	42242105	KSB 7530 A 60
			80	5,000 – 7,600	10	42242108	KSB 7530 A 80

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.

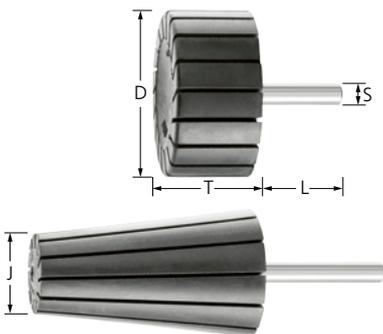


Special features:

- 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]	T [mm]	Abrasive	Grit size	Opt. RPM		Item no.	Designation
Cylindrical shape							
15	30	CO-COOL	60	26,000 – 36,000	1	42206305	GSB 1530 CO-COOL 60
			80	26,000 – 36,000	1	42206308	GSB 1530 CO-COOL 80
25	25	CO-COOL	60	16,000 – 22,900	1	42207705	GSB 2525 CO-COOL 60
			80	16,000 – 22,900	1	42207708	GSB 2525 CO-COOL 80
30	30	CO-COOL	36	13,000 – 19,100	1	42209302	GSB 3030 CO-COOL 36
			60	13,000 – 19,100	1	42209305	GSB 3030 CO-COOL 60
			80	13,000 – 19,100	1	42209308	GSB 3030 CO-COOL 80
45	30	CO-COOL	60	8,500 – 12,700	1	42210305	GSB 4530 CO-COOL 60
			80	8,500 – 12,700	1	42210308	GSB 4530 CO-COOL 80
60	30	CO-COOL	60	6,500 – 9,500	1	42211305	GSB 6030 CO-COOL 60
			80	6,500 – 9,500	1	42211308	GSB 6030 CO-COOL 80

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]	T [mm]	S [mm]	L [mm]	Hardness [Shore A]	Acc. to ISO	Max. RPM	Min. RPM [RPM]		Item no.	Designation
Cylindrical shape										
10	10	6	35	65-70	ISO 15637-1	44,000	30,000	1	42101000	GK 1010/6
	20	6	35	65-70	ISO 15637-1	44,000	30,000	1	42102000	GK 1020/6
13	25	6	35	65-70	-	44,000	30,000	1	42104000	GK 1325/6
15	30	6	35	65-70	ISO 15637-1	36,000	26,000	1	42106000	GK 1530/6
19	25	6	35	65-70	-	30,000	20,000	1	42106500	GK 1925/6
22	20	6	35	65-70	ISO 15637-1	26,000	18,000	1	42107000	GK 2220/6
25	25	6	35	65-70	-	22,900	16,000	1	42107500	GK 2525/6
30	30	6	35	65-70	ISO 15637-1	19,100	13,000	1	42109000	GK 3030/6

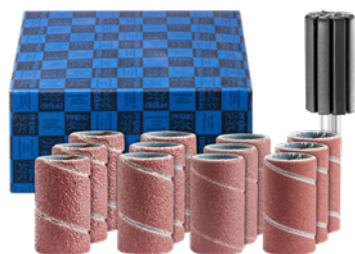
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Abrasive spiral bands

Rubber drum holder GK

D [mm]	T [mm]	S [mm]	L [mm]	Hardness [Shore A]	Acc. to ISO	Max. RPM	Min. RPM [RPM]		Item no.	Designation
38	25	6	35	65-70	-	15,900	10,000	1	42109500	GK 3825/6
45	30	6	35	65-70	ISO 15637-1	12,700	8,500	1	42110000	GK 4530/6
51	25	6	35	65-70	-	11,200	7,500	1	42110500	GK 5125/6
60	30	6	35	65-70	ISO 15637-1	9,500	6,500	1	42111006	GK 6030/6
75	30	8	35	65-70	ISO 15637-1	7,600	5,000	1	42112000	GK 7530/8

Abrasive spiral band set



SET 1530 A

The set contains cylindrical abrasive spiral bands in the aluminium oxide A type suitable for a selection of different applications, designed for universal use in coarse to fine grinding, as well as an appropriate rubber drum holder.

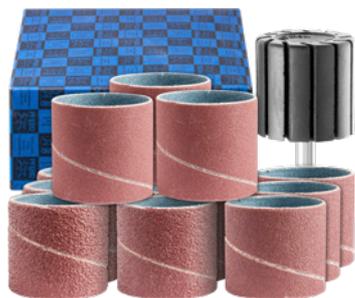
Contents:

One rubber drum holder GK 1530/6 and three each of the following abrasive spiral bands: KSB 1530 A 60, KSB 1530 A 80, KSB 1530 A 150 and KSB 1530 A 240.

Special features:

- For getting to know and testing the comprehensive range.
- Coordinated selection of the most common grit sizes.

Diameter [mm]	Width [mm]		Item no.	Designation
15	30	1	42298002	SET 1530 A



SET 3030 A

The set contains cylindrical abrasive spiral bands in the aluminium oxide A type suitable for a selection of different applications, designed for universal use in coarse to fine grinding, as well as an appropriate rubber drum holder.

Contents:

One rubber drum holder GK 3030/6 and three each of the following abrasive spiral bands: KSB 3030 A 40, KSB 3030 A 60, KSB 3030 A 80 and KSB 3030 A 150.

Special features:

- For getting to know and testing the comprehensive range.
- Coordinated selection of the most common grit sizes.

Diameter [mm]	Width [mm]		Item no.	Designation
30	30	1	42298004	SET 3030 A



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!

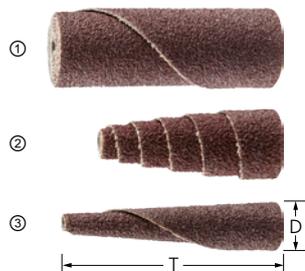


Not permitted for wet grinding!



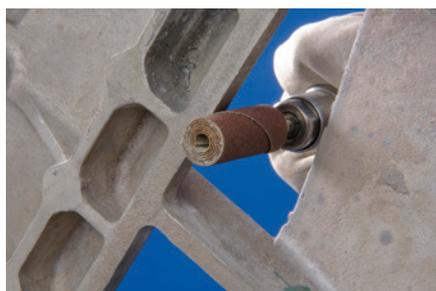
POLIROLL cartridge rolls PR and PRK, POLICO abrasive cones PCO

4



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.



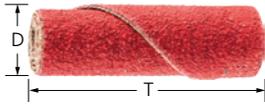
Special features:

- 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 6-18-3	1	42810608	PR 0625 A 80
			150	20,000	25,000	BO 6-18-3	20	42810615	PR 0625 A 150
9	25	A	80	15,000	23,000	BO 6-18-3	20	42810808	PR 0925 A 80
12	25	A	80	12,000	17,000	BO 6-18-3	50	42811208	PR 1225 A 80
② Conical shape (PRK)									
12	25	A	80	12,000	17,000	BO 6-18-3	1	42821208	PRK 1225 A 80
	35	A	150	12,000	17,000	-	1	42821315	PRK 1235 A 150

POLIROLL, POLICO

POLIROLL cartridge rolls PR and PRK, POLICO abrasive cones PCO



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 6-18-3	1	42810646	PR 0625 CO-COOL 60
			80	20,000	25,000	BO 6-18-3	1	42810648	PR 0625 CO-COOL 80
			120	20,000	25,000	BO 6-18-3	1	42810650	PR 0625 CO-COOL 120
12	35	CO-COOL	120	12,000	17,000	-	1	42811350	PR 1235 CO-COOL 120

Arbor and set



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, PR 0925, PR 1225, PRK 1225	6	30	1	42706183	BO 6-18-3



The quick way to find the perfect tool

			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!



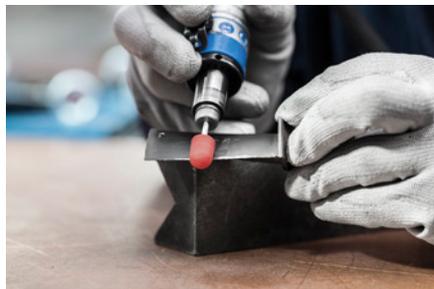
POLICAP

POLICAP (PC), shape WRC



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.

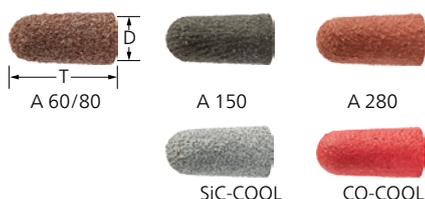


Special features:

- 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							
10	15	A	60	20,000	50	42302101	PC WRC 1015 A 60
			150	20,000	50	42302102	PC WRC 1015 A 150

POLICAP (PC), shape KEL



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

Silicon carbide SiC-COOL

5	15	SiC-COOL	80	40,000	1	42306054	PC KEL 0515 SiC-COOL 80
			150	40,000	1	42306055	PC KEL 0515 SiC-COOL 150

Continued on next page



D [mm]	T [mm]	Abrasive	Grit size	Opt. RPM		Item no.	Designation
11	25	SiC-COOL	80	20,000	1	42306114	PC KEL 1125 SiC-COOL 80
			150	20,000	1	42306115	PC KEL 1125 SiC-COOL 150
16	32	SiC-COOL	80	12,000	1	42306164	PC KEL 1632 SiC-COOL 80
			150	12,000	1	42306165	PC KEL 1632 SiC-COOL 150
21	40	SiC-COOL	80	9,500	1	42306214	PC KEL 2140 SiC-COOL 80
			150	9,500	1	42306215	PC KEL 2140 SiC-COOL 150

CO-COOL

5	15	CO-COOL	80	40,000	1	42306056	PC KEL 0515 CO-COOL 80
			120	40,000	1	42306057	PC KEL 0515 CO-COOL 120
11	25	CO-COOL	80	20,000	1	42306116	PC KEL 1125 CO-COOL 80
			120	20,000	1	42306117	PC KEL 1125 CO-COOL 120
16	32	CO-COOL	80	12,000	1	42306166	PC KEL 1632 CO-COOL 80
			120	12,000	1	42306167	PC KEL 1632 CO-COOL 120
21	40	CO-COOL	80	9,500	1	42306216	PC KEL 2140 CO-COOL 80
			120	9,500	1	42306217	PC KEL 2140 CO-COOL 120

4

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

The quick way to find the perfect tool

			Abrasive ▶			
Material group ▼			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!

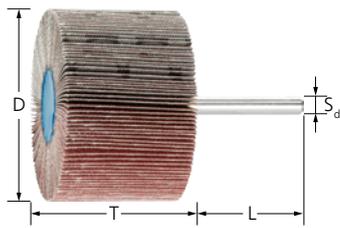
 Wear a dust mask!

 Follow the safety instructions!



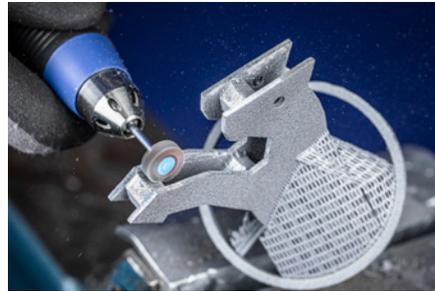
Flap tools

Mounted flap wheels F



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	1	44400002	F 1010/3 A 60		
					80	38,000	75,000	1	44400003	F 1010/3 A 80		
					120	38,000	75,000	1	44400004	F 1010/3 A 120		
		15	10	A	60	25,000	50,000	1	44400032	F 1510/3 A 60		
					80	25,000	50,000	1	44400033	F 1510/3 A 80		
					120	25,000	50,000	1	44400034	F 1510/3 A 120		
			15	A	60	25,000	50,000	1	44400042	F 1515/3 A 60		
					80	25,000	50,000	1	44400043	F 1515/3 A 80		
					120	25,000	50,000	1	44400044	F 1515/3 A 120		
	30	5	A	60	12,000	25,400	1	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			
		10	A	60	12,000	25,400	1	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			
	6	40	30	5	A	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	
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		
			A	150	12,000	25,400	10	44402156	F 3010/6 A 150			
				240	12,000	25,400	10	44402246	F 3010/6 A 240			
				320	12,000	25,400	10	44402326	F 3010/6 A 320			
40			10	A	120	9,600	19,100	10	44403126	F 4010/6 A 120		
					15	A	40	9,600	19,100	1	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		
			240	9,600			19,100	10	44404246	F 4015/6 A 240		
			20	A	320	9,600	19,100	10	44404326	F 4015/6 A 320		
					60	9,600	19,100	10	44408066	F 4020/6 A 60		
80		9,600			19,100	10	44408086	F 4020/6 A 80				
50		10	A	120	9,600	19,100	10	44408126	F 4020/6 A 120			
				150	9,600	19,100	10	44408156	F 4020/6 A 150			
				60	7,000	15,200	10	44505066	F 5010/6 A 60			
		15	A	80	7,000	15,200	10	44505086	F 5010/6 A 80			
				120	7,000	15,200	10	44505126	F 5010/6 A 120			
				60	7,000	15,200	10	44506066	F 5015/6 A 60			
				80	7,000	15,200	10	44506086	F 5015/6 A 80			

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Flap tools

Mounted flap wheels F

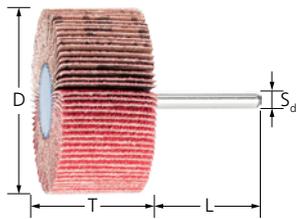


S _d [mm]	L [mm]	D [mm]	T [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation					
6	40	50	15	A	120	7,000	15,200	10	44506126	F 5015/6 A 120					
					150	7,000	15,200	10	44506156	F 5015/6 A 150					
					240	7,000	15,200	10	44506246	F 5015/6 A 240					
					320	7,000	15,200	10	44506326	F 5015/6 A 320					
			20	A	40	7,000	15,200	1	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					
			30	A	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					
		60	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					
					150	6,300	12,700	10	44507156	F 6015/6 A 150					
					320	6,300	12,700	10	44508066	F 6020/6 A 60					
				20	A	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						
								44508326	F 6020/6 A 320						
								30	A	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								
	240		6,300	12,700	10	44509246	F 6030/6 A 240								
						40	A	40	6,300	12,700	1	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								
						44510246	F 6040/6 A 240								
						50	A	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							
	80	20	A	40	4,800	9,500	1	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						
			30	A	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					
					40	A	40	4,800	9,500	10	47801239	F 8040/6 A 40			
			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					
			50	A	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						



Flap tools

Mounted flap wheels F



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
6	40	30	10	CO-COOL	60	12,000	25,400	1	44402074	F 3010/6 CO-COOL 60
					80	12,000	25,400	1	44402094	F 3010/6 CO-COOL 80
					120	12,000	25,400	1	44402134	F 3010/6 CO-COOL 120
			15	CO-COOL	60	12,000	25,400	1	44409074	F 3015/6 CO-COOL 60
					80	12,000	25,400	1	44409094	F 3015/6 CO-COOL 80
					120	12,000	25,400	1	44409134	F 3015/6 CO-COOL 120
		40	20	CO-COOL	60	9,600	19,100	1	44408074	F 4020/6 CO-COOL 60
					80	9,600	19,100	1	44408094	F 4020/6 CO-COOL 80
					120	9,600	19,100	1	44408134	F 4020/6 CO-COOL 120
		50	30	CO-COOL	60	7,000	15,200	1	44411574	F 5030/6 CO-COOL 60
					80	7,000	15,200	1	44411594	F 5030/6 CO-COOL 80
					120	7,000	15,200	1	44411634	F 5030/6 CO-COOL 120
60	30	CO-COOL	60	6,300	12,700	1	44411774	F 6030/6 CO-COOL 60		
			80	6,300	12,700	1	44411794	F 6030/6 CO-COOL 80		
			120	6,300	12,700	1	44411834	F 6030/6 CO-COOL 120		

Mounted flap wheel set



Set F shank diameter of 6 mm

The set contains three mounted flap wheels in the aluminium oxide A type with a shank diameter of 6 mm in grit sizes 60, 80 and 120.

Contents:

One each of the following mounted flap wheels: F A/6 60, F A/6 80 and F A/6 120.

Special features:

- For getting to know and testing the comprehensive range.
- Coordinated selection of the most common grit sizes.

Diameter [mm]	Width [mm]		Item no.	Designation
30	15	1	44498002	SET F 3015/6 A
40	20	1	44498003	SET F 4020/6 A
50	30	1	44498004	SET F 5030/6 A
60	30	1	44498005	SET F 6030/6 A

Flap 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!



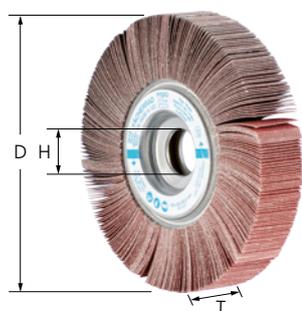
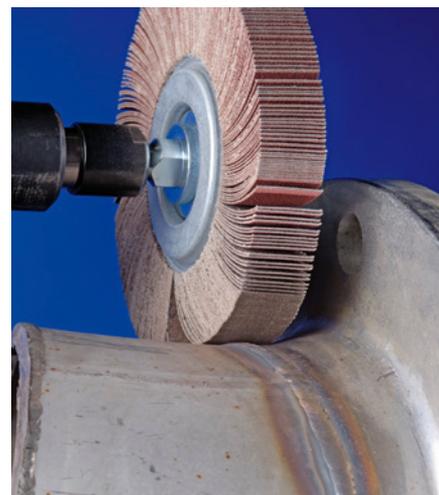
Wear gloves!



Wear a dust mask!



Follow the safety instructions!



Aluminium oxide A version

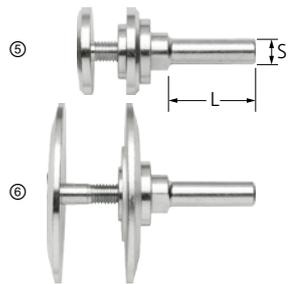
The flaps made of coated abrasive are arranged radially around the axis in a fan-type structure. For general applications from coarse to fine grinding.

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
150	30	25.4	A	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
				240	3,500	6,300	1	44724240	FR 15030/25,4 A 240
	50	25.4	A	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
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
	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
	240	2,600	4,700				2	44738241	FR 20050/44,0 A 240





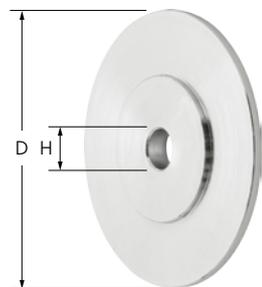
Version with clamping flange

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
⊗	100, 150, 165	25.4	12	40	25 – 50	1	44601225	FR/VR 12/25,4 100-165
⊗	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.

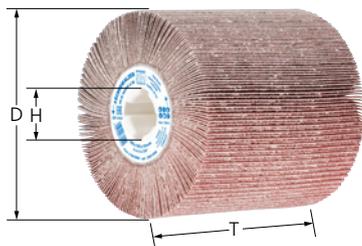
Special features:

- 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	M14	A	40	7,500	13,300	1	44781504	FR WS 11520 M14 A 40
				60	7,500	13,300	1	44781506	FR WS 11520 M14 A 60
				80	7,500	13,300	1	44781508	FR WS 11520 M14 A 80
				120	7,500	13,300	1	44781512	FR WS 11520 M14 A 120
125	20	M14	A	40	6,850	12,200	1	44782504	FR WS 12520 M14 A 40
				60	6,850	12,200	1	44782506	FR WS 12520 M14 A 60
				80	6,850	12,200	1	44782508	FR WS 12520 M14 A 80
				120	6,850	12,200	1	44782512	FR WS 12520 M14 A 120

Flap tools

Flap drums



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.

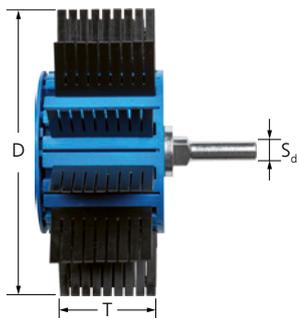


Special features:

- 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
				180	3,800	6,100	1	44783180	FR-W 100100 A 180

POLIFLAP tools



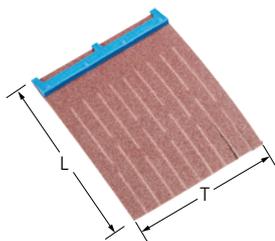
Grinding wheel PFL

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
			120	12	42800113	PFL-SL A 120
			180	12	42800115	PFL-SL A 180
			220	12	42800116	PFL-SL A 220
			320	12	42800117	PFL-SL A 320

4



Rubber flaps PFL-GL

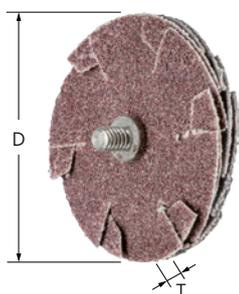
Rubber flaps to match the POLIFLAP grinding wheel. They lie between the abrasive flaps, and support the abrasive effect and the flexibility of the tool.

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

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
50	5	A	80	4	4,000	8,000	BO KS 50	20	42865408	KS 50-4 A 80

Flap tools

Arbor for overlap slotted discs BO KS



BO KS

Matching arbor for overlap slotted discs.

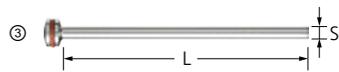


Special features:

- 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
②	KS 50-4 A 80	6	40	1/4-28 UNF	1	42700640	BO KS 50

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
②	4	6	25	0-10	1	42400004	BO 6/4 0-10



Sanding sticks

General information



Safety notes



Wear eye protection!



Wear a dust mask!



Wear hearing protection!



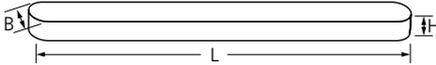
Follow the safety instructions!



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							
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

Non-woven tools

General information



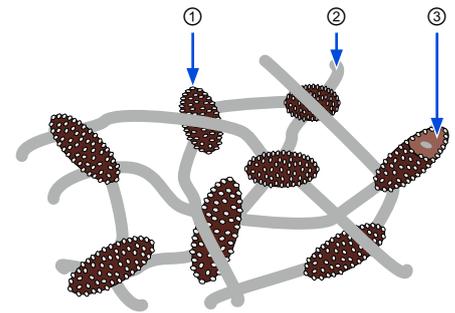
Non-woven abrasives

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.

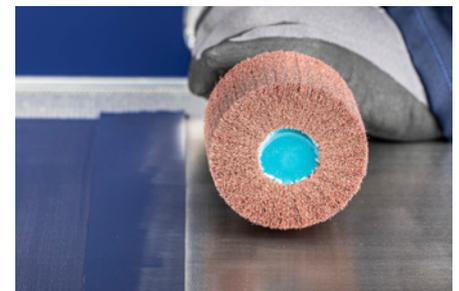
The very loose connections between the individual fibres ensures a high level of flexibility and gives a strong spring-type effect to the non-woven material. It is flexible and supple, and leaves behind a very distinctive surface structure. The satin-finished grinding result is unique and cannot be achieved 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



4



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 (Al₂O₃)

Aluminium oxide (Al₂O₃) 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 hearing protection!
-  Wear gloves!
-  Wear a dust mask!
-  Follow the safety instructions!

 Wear eye protection!



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.



PNG

The non-woven abrasive is made of several very wavyly 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.



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.



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.



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.



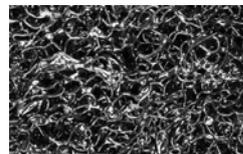
PNST

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.



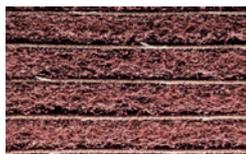
PNL-HP

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.



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.



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.



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.



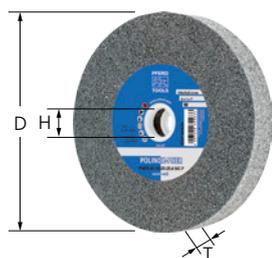
Comparison table

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:

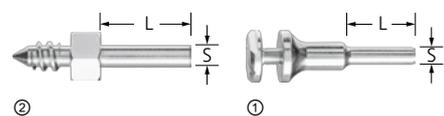
- High economic efficiency due to high abrasive performance and long tool life.
- Produces very good surface quality and can be profiled as desired, enabling optimal adjustment to the contour. Ideal for cleaning, deburring, blending and polishing.

D [mm]	T [mm]	H [mm]	Grit size	Version	Abrasive	Opt. RPM	Max. RPM	Suitable arbors		Item no.	Designation
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Type for straight grinders, flexible shafts and bench grinders

75	6	6	fine	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	fine	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	coarse	H	A	3,200	5,100	-	1	44691061	PNER-H 15025-25,4 A G

Arbor for POLINOX unitized/convolute wheels



Arbor BO

Matching arbor for POLINOX unitized wheels.

Special features:

- High economic efficiency as tool can be changed quickly.

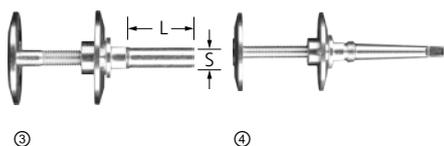
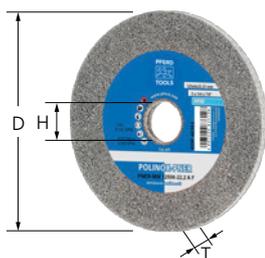


Image	Suitable for hole diameter [mm]	S [mm]	L [mm]	Clamping range [mm]		Item no.	Designation
②	6	6	25	-	1	42700256	BO PNER 25 S6
①	6	6	25	3 - 10	1	42400006	BO 6/6 3-10

Non-woven tools

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	Abrasive	Opt. RPM	Max. RPM		Item no.	Designation
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Type for angle grinders and fillet weld grinders

150	3	25.4	fine	MW (medium-soft)	SiC	3,800	5,100	1	44691628	PNER-MW 15003-25,4 SiC F
				MH (medium-hard)	SiC	3,800	5,100	1	44691629	PNER-MH 15003-25,4 SiC F
				H (hard)	A	3,800	5,100	1	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
				H (hard)	A	3,800	5,100	5	44691633	PNER-H 15006-25,4 A F

POLINOX unitized discs PNER



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.



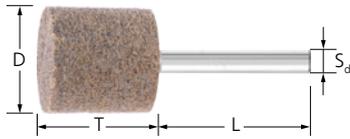
Special features:

- 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	1	44690732	DISC PNER-W 115-22,2 SiC F
				MW (medium-soft)	SiC	6,000	10,000	1	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

Non-woven tools

POLINOX compact mounted points PNER



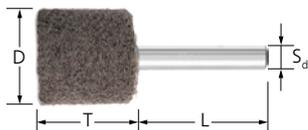
Aluminium oxide A version

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										
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
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										
50	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



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										
20	20	6	40	SiC	F (fine)	23,800	33,400	10	47700280	PNER-MW KU 20/6 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										
50	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

Non-woven tools

General information on POLINOX convolute wheels PNK



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.



Comparison table

Type	PFERD TOOLS PNK			3M	Standard Abrasives	Norton	BIBIELLE
	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.

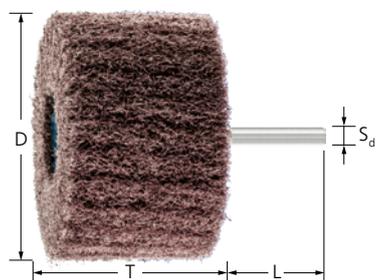


Special features:

- 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	Abrasive	Opt. RPM	Max. RPM		Item no.	Designation
150	25	25.4	coarse	W (soft)	A	2,500	5,100	1	47802730	PNK W 15025-25,4 A G
			fine	H (hard)	SiC	2,500	5,100	1	47802644	PNK-H 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	25	76.2	fine	H (hard)	SiC	1,900	3,850	1	47802652	PNK-H 20025-76,2 SiC F
			coarse	W (soft)	A	1,900	3,850	1	47802732	PNK W 20050-76,2 A G
	50	76.2	fine	H (hard)	SiC	1,900	3,850	1	47802656	PNK-H 20050-76,2 SiC F

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
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Aluminium oxide A

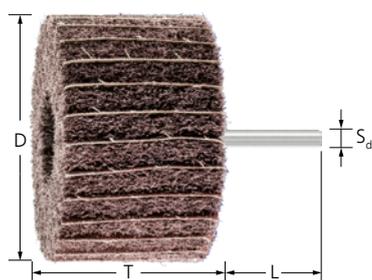
40	20	6	40	A	80	7,500	15,000	10	44698505	PNL 4020/6 A 80
					100	7,500	15,000	10	44654100	PNL 4020/6 A 100
					180	7,500	15,000	10	44654180	PNL 4020/6 A 180
50	30	6	40	A	80	6,000	12,000	10	44698507	PNL 5030/6 A 80
					100	6,000	12,000	10	44655100	PNL 5030/6 A 100
					180	6,000	12,000	10	44655180	PNL 5030/6 A 180
80	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

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Non-woven tools

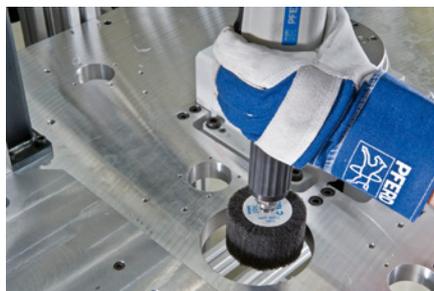
POLINOX mounted grinding wheels

D [mm]	T [mm]	S _d [mm]	L [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
Silicon carbide (SiC)										
40	20	6	40	SiC	100	7,500	15,000	1	44640410	PNL 4020/6 SiC 100
					180	7,500	15,000	1	44640418	PNL 4020/6 SiC 180
50	30	6	40	SiC	100	6,000	12,000	1	44640510	PNL 5030/6 SiC 100
					180	6,000	12,000	10	44640518	PNL 5030/6 SiC 180
60	50	6	40	SiC	100	5,000	10,000	1	44640610	PNL 6050/6 SiC 100
					180	5,000	10,000	10	44640618	PNL 6050/6 SiC 180
80	50	6	40	SiC	100	4,000	7,500	1	44640810	PNL 8050/6 SiC 100
					180	4,000	7,500	10	44640818	PNL 8050/6 SiC 180



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).



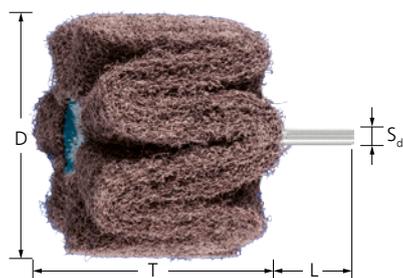
Special features:

- 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 logging.

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	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
60	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	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

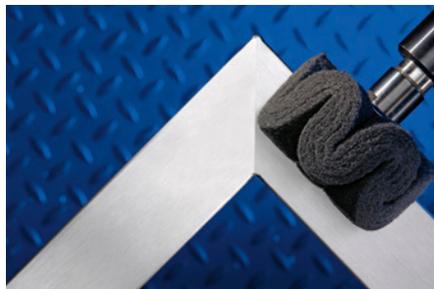
Non-woven tools

POLINOX mounted grinding wheels



PNG type

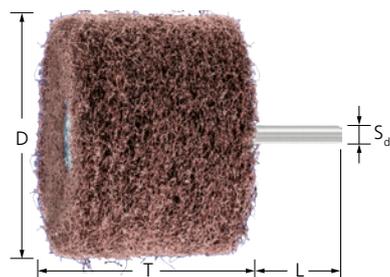
Made of several very wavyly arranged strips of non-woven abrasive material, wound around a core. The wavy structure of the non-woven abrasive material permits seamless brush matting of surfaces. Available in aluminium oxide A and silicon carbide (SiC).



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	180	4,000	7,500	1	44646018	PNG 8050/6 A 180
Silicon carbide (SiC)										
80	50	6	40	SiC	180	4,000	7,500	10	44640858	PNG 8050/6 SiC 180



PNR type

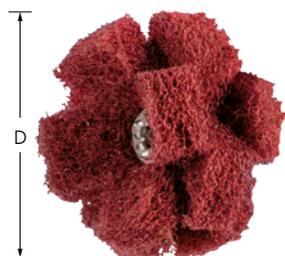
The non-woven abrasive material is arranged in multiple (axial) disc layers. Since the individual non-woven discs are not interconnected, the abrasive surface adapts easily to different workpiece contours, e.g. when working on profiles or pipes. Available in aluminium oxide A.



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	3	40	A	180	7,600	12,300	1	44650232	PNR 2515/3 A 180
80	50	6	40	A	180	4,000	7,500	10	44668180	PNR 8050/6 A 180



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
25	A	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	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



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

POLINOX unmounted grinding wheels



PNL type

The non-woven abrasive material with aluminium oxide A as the abrasive is arranged in multi-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.



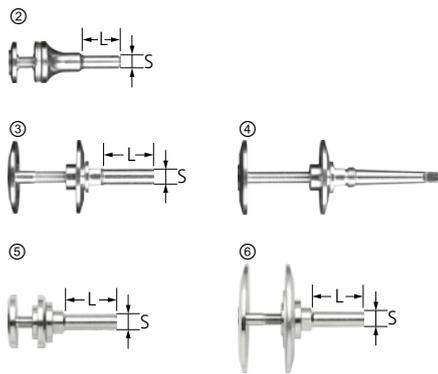
Special features:

- 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
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

Non-woven tools

Arbor for POLINOX grinding wheels



Arbor

Matching arbor for POLINOX unmounted grinding wheels.

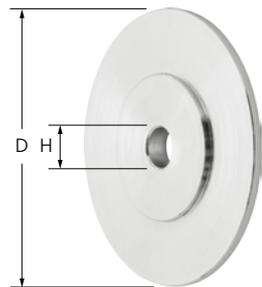
Special features:

- High economic efficiency as tool can be changed quickly.

Image	Suitable for hole diameter [mm]	S [mm]	L [mm]	Clamp- ing range [mm]		Item no.	Designation
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

4

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.

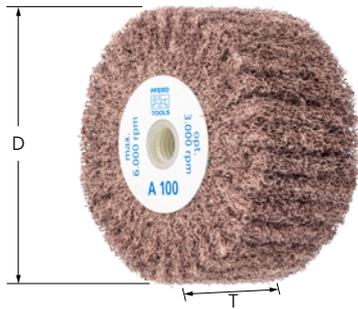
Special features:

- 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

Non-woven tools

Threaded POLINOX grinding wheels



PNL type

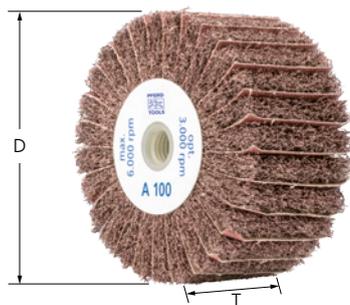
The non-woven abrasive material with aluminium oxide A as the abrasive is arranged in multiple radial flaps. A long tool life is achieved through the dense packing of the flaps. For work on medium-sized surfaces.



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	M14	A	100	3,000	6,000	1	44642001	PNL 10050 M14 A 100
				180	3,000	6,000	1	44642002	PNL 10050 M14 A 180
				280	3,000	6,000	1	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	M14	A	100	3,000	6,000	1	44642101	PNZ 10050 M14 A 100
				180	3,000	6,000	1	44642102	PNZ 10050 M14 A 180



Non-woven tools

Threaded POLINOX grinding wheels



PNG type

Made of several very wavy 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.

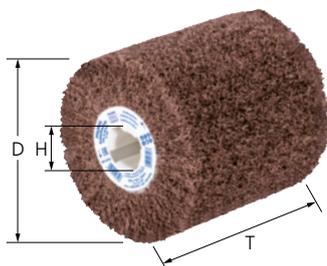


Special features:

- 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	M14	A	100	3,000	6,000	1	44642201	PNG 10050 M14 A 100
				180	3,000	6,000	1	44642202	PNG 10050 M14 A 180
				280	3,000	6,000	1	44642203	PNG 10050 M14 A 280
125	50	M14	A	100	2,300	3,800	1	44642501	PNG 12550 M14 A 100
				180	2,300	3,800	1	44642502	PNG 12550 M14 A 180
				280	2,300	3,800	1	44642503	PNG 12550 M14 A 280

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.



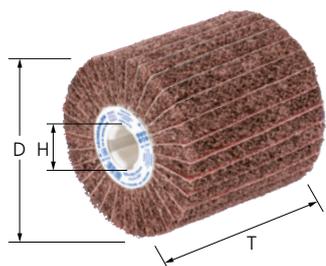
Special features:

- 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	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

Non-woven tools

POLINOX grinding drums



PNZ-W type

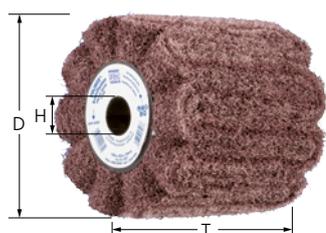
For work on large surfaces. The non-woven abrasive material with aluminium oxide A as the abrasive is arranged in multiple radial flaps. There is also abrasive cloth situated between the flaps. The flap arrangement results in a higher stock removal rate and produces a coarser surface finish.



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 wavyly 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.

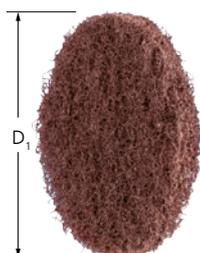


Special features:

- 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.

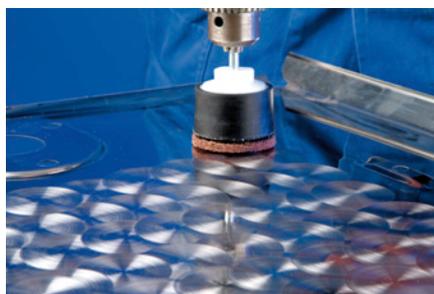
D [mm]	T [mm]	H [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
100	100	19	A	180	2,500	4,800	1	44641202	PNG-W 100100 A 180





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
50	A	180	600 – 1,400	MK 6/50/6	100	44638180	MK RK 50 A 180



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
50	6	40	3,800	MK RK 50	1	44605060	MK 6/50/6

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



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
125	22.23	A	100	5,300	12,200	1	44694131	PVL-R 125 A 100 G
			180	5,300	12,200	1	44694132	PVL-R 125 A 180 M
			240	5,300	12,200	1	44694133	PVL-R 125 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
180	A	100 G	2,100	3,200	PVKRH 180	1	75604171	PVKR 180 A 100G ZA
		180 M	2,100	3,200	PVKRH 180	1	75604172	PVKR 180 A 180M ZA
		240 F	2,100	3,200	PVKRH 180	1	75604173	PVKR 180 A 240F ZA
200	A	180 M	1,900	2,900	-	1	75606325	PVKR 200 A 180M ZA

Hook and loop disc holders PVKRH



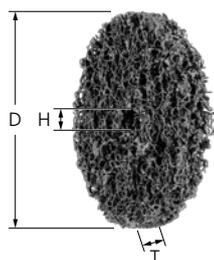
Hook and loop disc holders PVKRH

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
180	M14	8,500	1	42711784	PVKRH 180 M14
	5/8	8,500	1	47600058	PVKRH 178 5/8



POLICLEAN wheels PCLS (standard version)

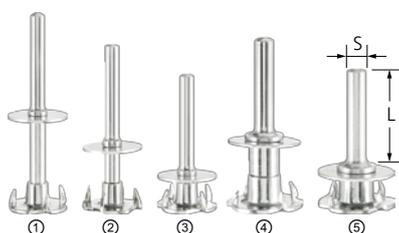
POLICLEAN is a coarsely structured, abrasive, non-woven cleaning fabric made from a special combination of synthetic fibres, resin and abrasive grain. For coarse cleaning work, such as removing paint, scale, heat discolouration, rust and adhesive residue in peripheral grinding on finer surfaces.

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
100	13	13	3,000 – 3,800	7,500	PCLB 6/13/13	4	44692100	PCLS 10013/13
150	13	13	2,000 – 2,500	5,100	PCLB 6/13/13	4	44692150	PCLS 15013/13



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
	13	6	40	PCLS 10013/13, PCLS 15013/13	Packaging, 1x	1	42706713	PCLB 6/13/13



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 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:

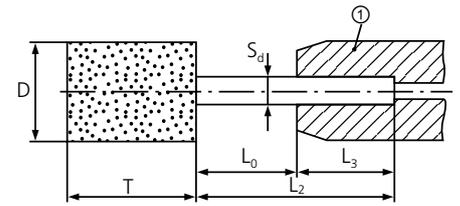
- High flexibility and open structure mean optimal adjustment to contours and no clogging of the tool itself.
- Long tool life thanks to tightly packed flaps. Cool grinding and low thermal load on the workpiece.
- Suitable for all conventional keyway systems. The 19 mm hole diameter with four keyways 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



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

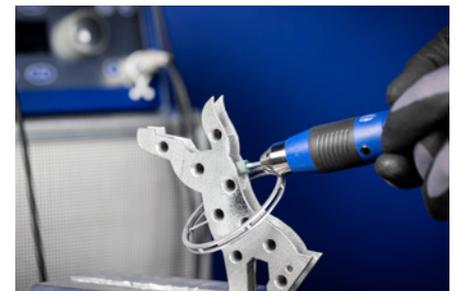
Select the application.

③ Desired surface

Select your desired surface.

④ Tool bond

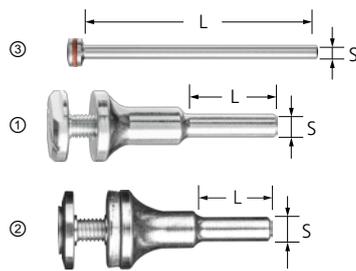
After determining the application (see column ②), the suitable bond is selected in the horizontal row.



				Bond ▶			Polyurethane bond				Elastomer bond				Resinoid bond
				Abrasive (grain mixtures) ▶		PUR			AR	ANCN	AW	AWCN	AN		
① Material group ▼		② Application ▼		③ Surface ▼		④ Designation/bond ▶			GR	GHR	LR	LHR	TX		
						W (Soft)	MH (Medium-hard)	STRUC							
						Recommended cutting speed ▶			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/mm ² (< 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/mm ² (> 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 metals	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





Arbor BO

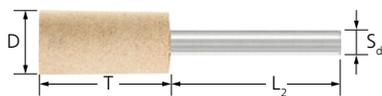
Matching arbor for POLIFLEX fine grinding discs and lenses.

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
①	6	6	25	3 – 10	1	42400006	BO 6/6 3-10

LR bond



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:

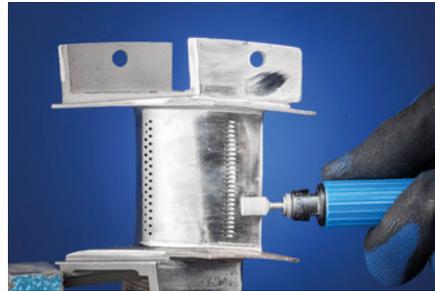
- Produces a fine, shiny surface finish.
- High economic efficiency due to high abrasive performance and long tool life.

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
8	12	3	30	A	120	47,500	71,600	10	41204212	PF ZY 0812/3 AW 120 LR
10	25	6	40	A	120	38,000	57,200	10	41219212	PF ZY 1025/6 AW 120 LR
12	20	6	40	A	120	32,000	47,700	10	41231212	PF ZY 1220/6 AW 120 LR
15	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 fine grinding points PF ZY TX

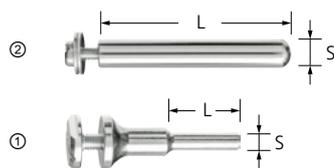
Very hard, sturdy bond made of regular aluminium oxide with textile fabric inlays. Suitable for use on edges. Grinding point in cylindrical shape, for fine grinding of small surfaces.



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
8	12	3	30	A	120	47,500	71,600	10	41204612	PF ZY 0812/3 AN 120 TX
10	25	6	40	A	120	38,000	57,200	10	41219612	PF ZY 1025/6 AN 120 TX
20	32	6	40	A	120	19,000	28,600	10	41247612	PF ZY 2032/6 AN 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
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 gloves!



Wear eye protection!



Wear a dust mask!



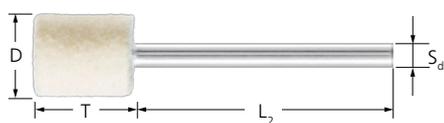
Wear hearing protection!



Follow the safety instructions!



Felt points FK



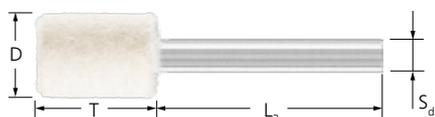
Shape ZYA

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
10	15	6	40	M (medium)	10,000 – 20,000	47,500	10	44101671	FK ZYA 1015/6 M



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
20	25	6	43	M (medium)	5,000 – 10,000	23,500	10	44101701	FK ZYA 2025/6 M ST-BO
25	30	6	40	M (medium)	4,000 – 8,000	19,000	10	44112536	FK ZYA 2530/6 M ST-BO



Shape SPK

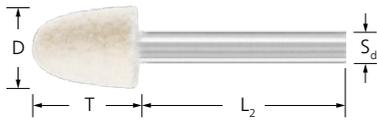
The conical pointed shape SPK is mainly used for pre-polishing and high-gloss polishing of radii and contours.

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
10	18	6	41	M (medium)	10,000 – 20,000	47,500	10	44101691	FK SPK 1018/6 M
15	30	6	45	M (medium)	6,000 – 12,000	31,500	10	44171536	FK SPK 1530/6 M



Shape KEL

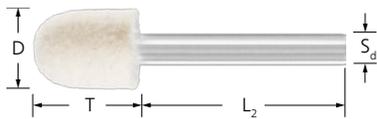
The conical shape KEL is mainly used for pre-polishing and high-gloss polishing of radii.



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
20	25	6	47	M (medium)	5,000 – 10,000	23,500	10	44182026	FK KEL 2025/6 M
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

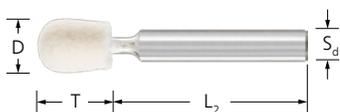
The cylindrical shape with radius end WRC is mainly used for pre-polishing and high-gloss polishing of small, concave contours.



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
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:

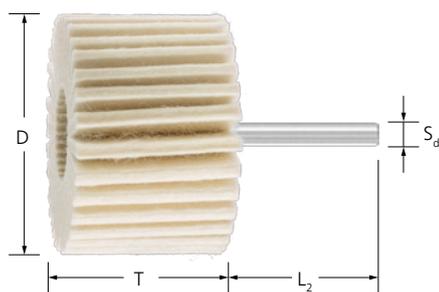
- Precise retention of geometric shapes due to the hardness of these tools.
- Can be profiled as desired, meaning they can also be used for tools with complex geometries.
- Outstanding result with diamond polishing pastes and polishing paste bars from PFERD TOOLS. Please order separately.

D [mm]	T [mm]	S _d [mm]	L ₂ [mm]	Version	Opt. RPM	Max. RPM		Item no.	Designation
10	14	6	43	M (medium)	10,000 – 20,000	47,500	10	44101681	FK TRE 1014/6 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
40	20	6	40	W (soft)	4,750	15,000	1	44384020	FLS 4020/6 W
				H (hard)	4,750	15,000	1	44384021	FLS 4020/6 H
60	40	6	40	W (soft)	3,150	10,000	1	44386040	FLS 6040/6 W
				H (hard)	3,150	10,000	1	44386041	FLS 6040/6 H

4



Felt flap discs FFS



FFS

Felt flap discs are used for pre-polishing and high-gloss polishing on medium-sized to large components.

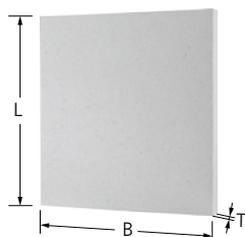


Special features:

- 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	1	44370115	FFS 115/22,23 W
			H (hard)	1,650	8,350	1	44371115	FFS 115/22,23 H

Felt sheets FK P



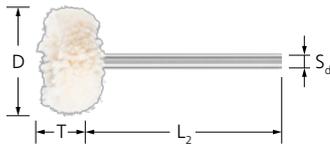
FK P

Felt sheets are suited to a very wide variety of manual polishing applications.

Special features:

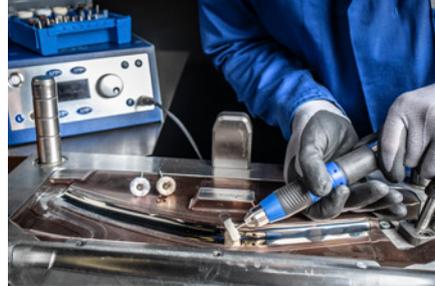
- Can be profiled as desired, meaning they can also be used for tools with complex geometries.
- Depending on the requirements, can be cut or punched into any shape (e.g. rectangle, square, stick or wheel) quickly and easily.

L [mm]	B [mm]	T [mm]	Version		Item no.	Designation
250	250	3	M (medium)	1	44101100	FK P 250-250-3 M



Shank-mounted cloth rings, cotton type

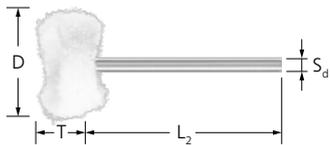
For pre-polishing and high-gloss polishing with polishing pastes in tool and mould-making. Highly flexible, enabling optimal adjustment to the contour. Please order corresponding polishing pastes and arbor separately.



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	1	44270227	TR 2210/3 BW



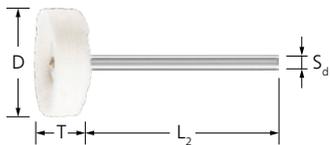
Shank-mounted cloth rings, felt cloth type

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	1	44270228	TR 2210/3 FZ



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:

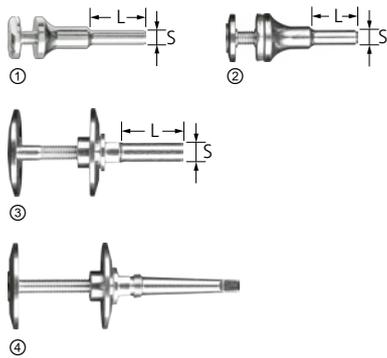
- Buffing, gloss polishing and high-gloss polishing in combination with the appropriate polishing pastes.

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	1	44270229	TR 2210/3 FL



Polishing tools

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



Grinding oils and polishing pastes

Grinding and polishing pastes



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
150	250	1	44220150	SFP 150
280	250	1	44220280	SFP 280

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