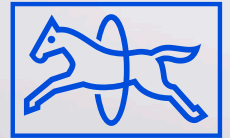


**PFERD**



**TOOLS**



# Fine grinding and polishing tools

# Fine grinding and polishing tools

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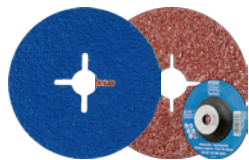
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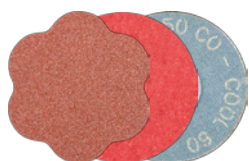
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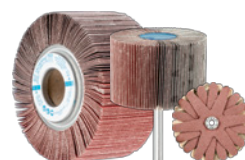
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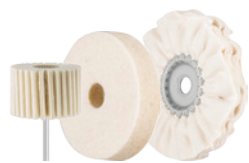


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# Fine grinding and polishing tools

## 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.



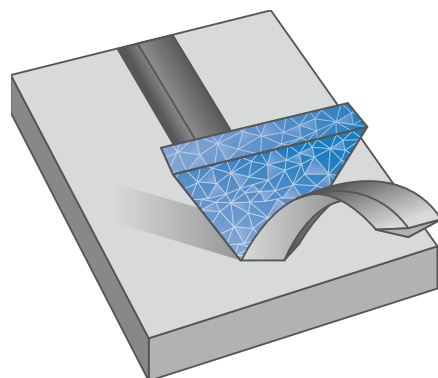
### VICTOGRAIN

**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.



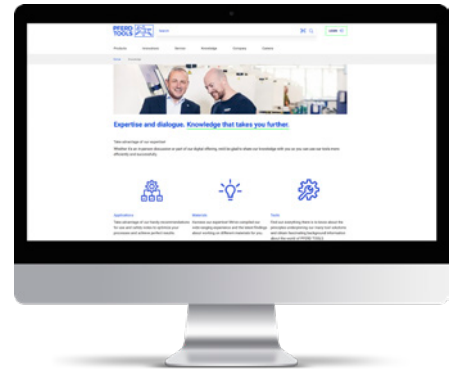
# Fine grinding and polishing tools

## 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:

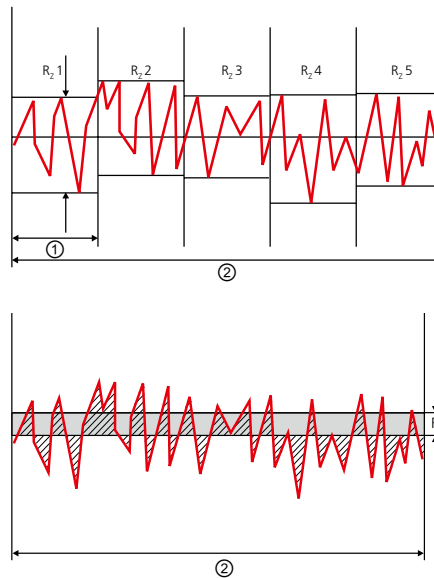
The abrasive material, the material you will be working on and the machining parameters all affect the surface roughness. As a general rule:

- 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:

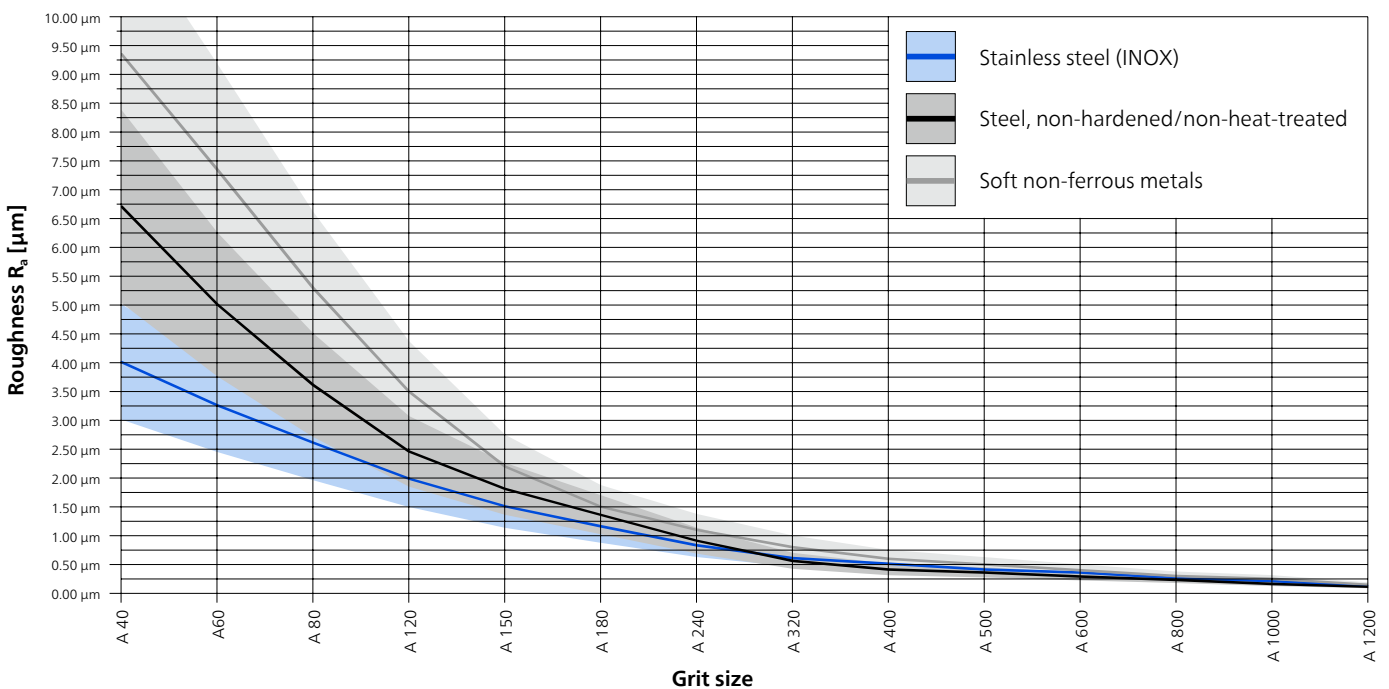
- Individual roughness depth  $R_{z_i}$**   
 The sum of the height of the largest profile peak and the depth of the largest profile trough within an individual measuring section.
- Roughness depth  $R_z$**   
 The mean value of the individual roughness depths ( $R_{z_i}$ ) of consecutive individual 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.













































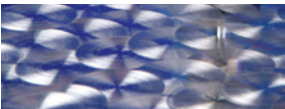














Surface roughness of different materials after machining with tools using coated abrasives.

# Fine grinding and polishing tools

The quick way to find the perfect tool

**PFERD  
TOOLS**



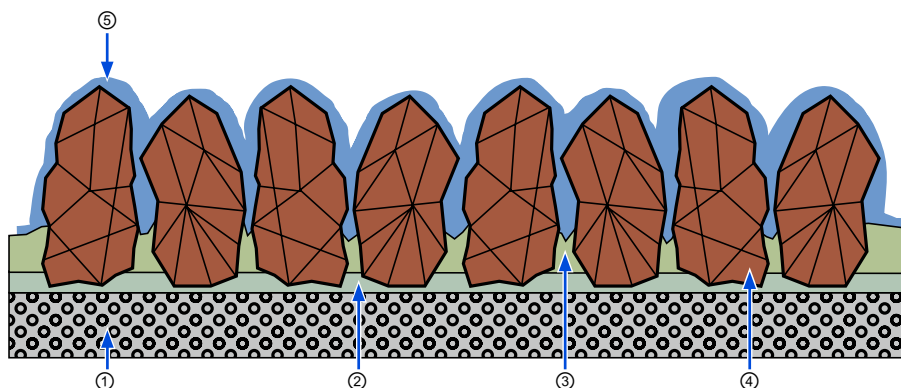
<p>Work type ▶</p>    <p>Work steps ▼</p>	<p><b>Face-down grinding</b> Tools with backing pad</p> 		<p><b>Belt grinding</b> Tools for belt sanders</p> 
<p><b>Changing geometrical profiles</b></p> 	 <ul style="list-style-type: none"> <li>COMBIDISC</li> <li>■ Abrasive discs</li> <li>■ Diamond abrasive discs</li> </ul>	 <ul style="list-style-type: none"> <li>COMBICLICK</li> <li>■ Fibre discs</li> </ul>	 Short belts
<p><b>Step-by-step fine grinding</b> Reducing roughness depths</p> 	 <ul style="list-style-type: none"> <li>COMBIDISC</li> <li>■ Mini fibre discs</li> </ul>	 Fibre discs	 Long belts
	 <ul style="list-style-type: none"> <li>COMBIDISC</li> <li>■ Mini-POLIFAN</li> <li>■ Mini-POLIFAN FLEX</li> </ul>	 Hook and loop discs	
	 <ul style="list-style-type: none"> <li>COMBIDISC</li> <li>■ Abrasive discs</li> <li>■ Non-woven discs</li> </ul>	 PSA discs	 Short belts
	 <ul style="list-style-type: none"> <li>COMBICLICK</li> <li>■ Fibre discs</li> <li>■ Non-woven discs</li> </ul>	 <ul style="list-style-type: none"> <li>Poliflex</li> <li>■ Discs</li> </ul>	 Long belts
	 Fibre discs	 <ul style="list-style-type: none"> <li>POLINOX</li> <li>■ Unitized discs</li> </ul>	
	 Hook and loop abrasive discs	 <ul style="list-style-type: none"> <li>POLINOX Discs</li> <li>■ PNL</li> <li>■ PNZ</li> </ul>	
	 Hook and loop discs		
<p><b>Fine grinding</b> <b>Very fine grinding</b></p> 	 <ul style="list-style-type: none"> <li>COMBIDISC</li> <li>■ Abrasive discs</li> <li>■ Non-woven discs</li> </ul>	 <ul style="list-style-type: none"> <li>Poliflex</li> <li>■ Discs</li> </ul>	 Short belts
	 <ul style="list-style-type: none"> <li>COMBICLICK</li> <li>■ Fibre discs</li> </ul>	 <ul style="list-style-type: none"> <li>POLINOX</li> <li>■ Unitized discs</li> </ul>	 Long belts
	 Fibre discs	 Grinding oils	 Short belts, non-woven
	 PSA discs		 Grinding oils
<p><b>Cleaning</b></p> 	 <ul style="list-style-type: none"> <li>COMBIDISC</li> <li>■ Non-woven discs</li> </ul>	 <ul style="list-style-type: none"> <li>POLIVLIES</li> <li>■ Hook and loop discs</li> </ul>	 Short belts, non-woven
	 <ul style="list-style-type: none"> <li>COMBIDISC</li> <li>■ POLICLEAN discs</li> </ul>	 <ul style="list-style-type: none"> <li>POLICLEAN</li> <li>■ Discs</li> </ul>	
	 <ul style="list-style-type: none"> <li>COMBICLICK</li> <li>■ Non-woven discs</li> </ul>		
<p><b>Creating visual effects</b></p> 	 <ul style="list-style-type: none"> <li>COMBIDISC</li> <li>■ Non-woven discs</li> </ul>	 <ul style="list-style-type: none"> <li>Poliflex</li> <li>■ Structuring tools</li> </ul>	 Short belts, non-woven
	 <ul style="list-style-type: none"> <li>COMBIDISC</li> <li>■ TX discs</li> </ul>	 <ul style="list-style-type: none"> <li>POLIVLIES</li> <li>■ Hook and loop discs</li> </ul>	
	 <ul style="list-style-type: none"> <li>COMBICLICK</li> <li>■ Non-woven discs</li> </ul>	 <ul style="list-style-type: none"> <li>POLIVLIES</li> <li>■ Flap discs</li> </ul>	
	 Marbling tools	 <ul style="list-style-type: none"> <li>POLINOX-Discs</li> <li>■ PNL</li> <li>■ PNZ</li> </ul>	
<p><b>Polishing</b></p> 	 <ul style="list-style-type: none"> <li>COMBIDISC</li> <li>■ Felt discs</li> </ul>	 Felt flap discs	 Short belts, felt
	 <ul style="list-style-type: none"> <li>COMBICLICK</li> <li>■ Felt discs</li> </ul>		



### 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

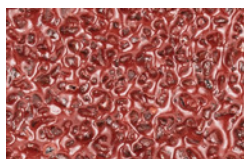
When adapted to the corresponding applications, vulcanized fibre in various thicknesses is predominantly used for making fibre grinding discs. Vulcanized fibre is a very sturdy, robust backing material, and also very wear-resistant.

### 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.



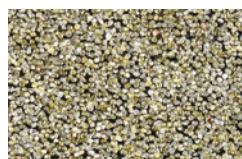
#### Silicon carbide SiC

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.



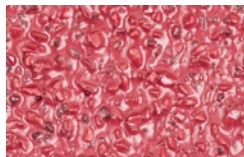
#### Diamond grain D

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



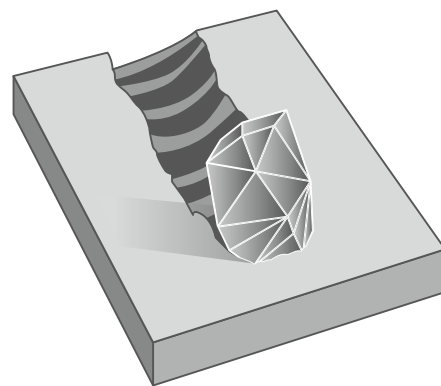
### Fine

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.





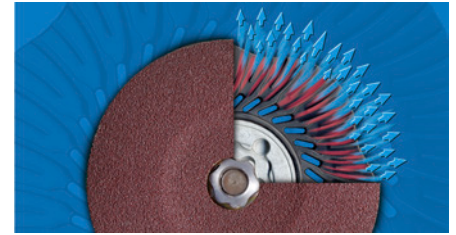
### System

Very easy and convenient to use.



### Clamping

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



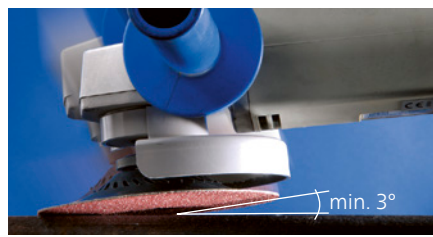
### Cooling effect

Excellent cooling of the tool and workpiece.



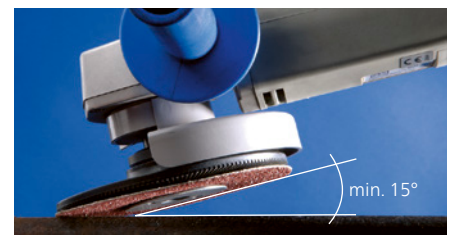
### Flexible grinding

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

			Abrasive ▶										
			Aluminium oxide A	Zircon Z	Ceramic oxide grain CO	VICTOGRAIN	Silicon carbide SiC	Aluminium oxide A-COOL	Ceramic oxide grain CO-COOL (PLUS)	Ceramic oxide grain CO-ALU	VICTOGRAIN-COOL		
Material group ▼	Steel, cast steel	Non-hardened, non-heat-treated steels	Construction steels, carbon steels, tool steels, non-alloyed steels, cast steel	●	○	●	●						○
		Hardened, heat-treated steels	Tool steels, tempering steels, alloyed steels, cast steel	○	●	●	●						○
Stainless steel (INOX)	Rust and acid-resistant steels	Austenitic and ferritic stainless steels		○		○		●	●			●	
Non-ferrous metals	Soft non-ferrous metals, non-ferrous metals	Soft aluminium alloys	○					●	○	○			
		Brass, copper, zinc	●	○	○					○			
	Hard non-ferrous metals	Hard aluminium alloys	●	○	○		○			○			
		Bronze, titanium		○	○	○	●		●		●		
	High-temperature-resistant materials	Nickel-based and cobalt-based alloys		○	○	○			●	○	●		
Cast iron	Grey cast iron, white cast iron	Cast iron with flake graphite EN-GJL (GG), with nodular graphite/nodular cast iron EN-GJS (GGG), white annealed cast iron EN-GJMW (GTW), black annealed cast iron EN-GJMB (GTS)	●	○	●								
Plastics, other materials		Fibre-reinforced plastics, thermoplastics, wood, chipboard, paint	●				●						

● = highly suitable ○ = suitable

## Safety notes

- The maximum permitted peripheral speed is 80 m/s.
- For safety reasons, the maximum permitted rotational speed indicated must never be exceeded.



Wear eye protection!



Wear hearing protection!



Wear gloves!



Wear a dust mask!



Use backing pad!



Follow the safety instructions!



Not permitted for wet grinding!



## 4

### Fibre discs CC-FS




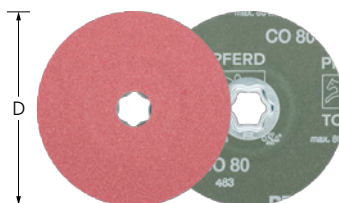
#### Aluminium oxide A version

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

##### Special features:

- The innovative quick-mounting system ensures convenient handling and cool grinding.
- High economic efficiency thanks to long tool life and very high stock removal rate. Consistent surface finish thanks to high-quality abrasives.
- Quick tool changes thanks to the innovative COMBICLICK quick-clamping system. Please order backing pad separately.

D [mm]	Abrasive	Grit size	Max. RPM		Item no.	Designation
100	A	36	15,300	25	64189001	CC-FS 100 A 36
		60	15,300	25	64189003	CC-FS 100 A 60
		80	15,300	25	64189004	CC-FS 100 A 80
		120	15,300	25	64189005	CC-FS 100 A 120
125	A	36	12,200	25	64190103	CC-FS 125 A 36
		60	12,200	25	64190106	CC-FS 125 A 60
		80	12,200	25	64190108	CC-FS 125 A 80
		120	12,200	25	64190112	CC-FS 125 A 120




#### Ceramic oxide grain CO version

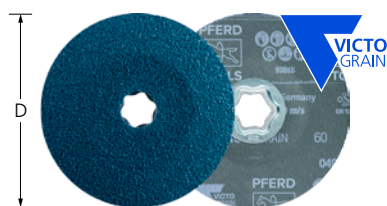
For aggressive grinding with maximum stock removal rate and very long tool life. Consistently high performance due to self-sharpening ceramic oxide grain. The ceramic oxide grain is specifically designed for work on hard materials and layers.



##### Special features:

- The innovative quick-mounting system ensures convenient handling and cool grinding.
- High economic efficiency thanks to long tool life and very high stock removal rate. Consistent surface finish thanks to high-quality abrasives.
- Quick tool changes thanks to the innovative COMBICLICK quick-clamping system. Please order backing pad separately.

D [mm]	Abrasive	Grit size	Max. RPM		Item no.	Designation
125	CO	24	12,200	25	64192102	CC-FS 125 CO 24




### VICTOGRAIN version

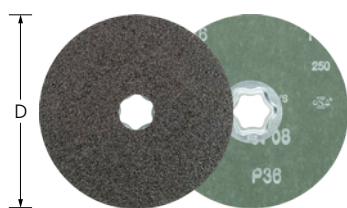
For maximum aggressive grinding with an extremely long tool life and the ultimate stock removal rate on steel and hard materials. The ultimate, consistently high performance.



**Special features:**

- The innovative quick-mounting system ensures convenient handling and cool grinding.
- High economic efficiency thanks to long tool life and very high stock removal rate. Consistent surface finish thanks to high-quality abrasives.
- Quick tool changes thanks to the innovative COMBICLICK quick-clamping system. Please order backing pad separately.

D [mm]	Abrasive	Grit size	Max. RPM		Item no.	Designation
125	VICTOGRAIN	36	12,200	25	64112636	CC-FS 125 VICTOGRAIN 36
		60	12,200	25	64112660	CC-FS 125 VICTOGRAIN 60
		80	12,200	25	64112680	CC-FS 125 VICTOGRAIN 80
180	VICTOGRAIN	36	8,500	25	64118136	CC-FS 180 VICTOGRAIN 36




### 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
125	SiC	36	12,200	25	64294103	CC-FS 125 SiC 36
		60	12,200	25	64294106	CC-FS 125 SiC 60
		80	12,200	25	64294108	CC-FS 125 SiC 80
		120	12,200	25	64294112	CC-FS 125 SiC 120




### Aluminium oxide A-COOL version

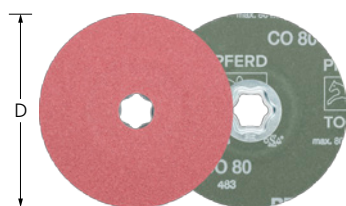
For general grinding work from fine to very fine grinding on materials which do not conduct heat well, e.g. stainless steel (INOX) and aluminium. Active grinding additives substantially improve the stock removal rate, prevent clogging and result in cooler grinding.

**Special features:**

- The innovative quick-mounting system ensures convenient handling and cool grinding.
- High economic efficiency thanks to long tool life and very high stock removal rate. Consistent surface finish thanks to high-quality abrasives.
- Quick tool changes thanks to the innovative COMBICLICK quick-clamping system. Please order backing pad separately.

D [mm]	Abrasive	Grit size	Max. RPM		Item no.	Designation
125	A-COOL	50	12,200	25	64191105	CC-FS 125 A-COOL 50
		60	12,200	25	64191106	CC-FS 125 A-COOL 60
		80	12,200	25	64191108	CC-FS 125 A-COOL 80
		120	12,200	25	64191112	CC-FS 125 A-COOL 120
		180	12,200	25	64191118	CC-FS 125 A-COOL 180
		220	12,200	25	64191122	CC-FS 125 A-COOL 220






### Ceramic oxide grain CO-COOL version

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



**Special features:**

- The innovative quick-mounting system ensures convenient handling and cool grinding.
- High economic efficiency thanks to long tool life and very high stock removal rate. Consistent surface finish thanks to high-quality abrasives.
- Quick tool changes thanks to the innovative COMBICLICK quick-clamping system. Please order backing pad separately.

D [mm]	Abrasive	Grit size	Max. RPM		Item no.	Designation
100	CO-COOL	36	15,300	25	64189101	CC-FS 100 CO-COOL 36
		60	15,300	25	64189103	CC-FS 100 CO-COOL 60
		80	15,300	25	64189104	CC-FS 100 CO-COOL 80
		120	15,300	25	69401582	CC-FS 100 CO-COOL 120
115	CO-COOL	36	13,300	25	64193003	CC-FS 115 CO-COOL 36
		60	13,300	25	64193006	CC-FS 115 CO-COOL 60
		80	13,300	25	64193008	CC-FS 115 CO-COOL 80
		120	13,300	25	64193012	CC-FS 115 CO-COOL 120
125	CO-COOL	36	12,200	25	64193103	CC-FS 125 CO-COOL 36
				1	49900035	POS CC-FS 125 CO-COOL 36 (5)
		60	12,200	25	64193106	CC-FS 125 CO-COOL 60
				1	49900036	POS CC-FS 125 CO-COOL 60 (5)
		80	12,200	25	64193108	CC-FS 125 CO-COOL 80
				1	49900037	POS CC-FS 125 CO-COOL 80 (5)
		120	12,200	25	64193112	CC-FS 125 CO-COOL 120
				1	49900038	POS CC-FS 125 CO-COOL 120 (5)
180	CO-COOL	36	8,500	25	64193303	CC-FS 180 CO-COOL 36
		60	8,500	25	64193306	CC-FS 180 CO-COOL 60
		80	8,500	25	64193308	CC-FS 180 CO-COOL 80




### Ceramic oxide grain CO-COOL-CONTOUR version

Very flexible and adaptable outer contour that does not cut into the workpiece. Consistently high performance and aggressive grinding due to self-sharpening ceramic oxide grain. Active grinding additives improve the stock removal rate, prevent clogging and result in cooler grinding.



**Special features:**

- The innovative quick-mounting system ensures convenient handling and cool grinding.
- High economic efficiency thanks to long tool life and very high stock removal rate. Consistent surface finish thanks to high-quality abrasives.
- Use only the CC-GT 115-125 backing pad with M14 or 5/8" thread to maintain the flexibility at the edge of the fibre discs.

D [mm]	Abrasive	Grit size	Max. RPM		Item no.	Designation
125	CO-COOL	60 CONTOUR	12,200	25	64112560	CC-FS 125 CO-COOL 60 CONTOUR
		120 CONTOUR	12,200	25	64112512	CC-FS 125 CO-COOL 120 CONTOUR




**VICTOGRAIN-COOL version**

For maximum aggressive grinding with an extremely long tool life, the ultimate stock removal rate and consistently high performance on steel and hard materials which do not conduct heat well. Active grinding additives in the coating prevent clogging and result in cooler grinding.

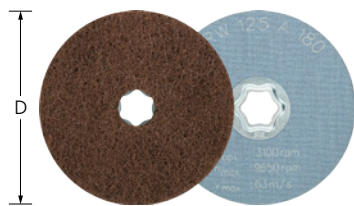


**Special features:**

- The innovative quick-mounting system ensures convenient handling and cool grinding.
- High economic efficiency thanks to long tool life and very high stock removal rate. Consistent surface finish thanks to high-quality abrasives.
- Quick tool changes thanks to the innovative COMBICLICK quick-clamping system. Please order backing pad separately.

D [mm]	Abrasive	Grit size	Max. RPM		Item no.	Designation
125	VICTOGRAIN-COOL	36	12,200	25	64112536	CC-FS 125 VICTOGRAIN-COOL 36
		60	12,200	25	64112506	CC-FS 125 VICTOGRAIN-COOL 60
		80	12,200	25	64112508	CC-FS 125 VICTOGRAIN-COOL 80

**Non-woven discs**




**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	10	42001052	CC-VRW 115 A 100
		180	fine	3,300	10,500	10	42001051	CC-VRW 115 A 180
		280	very fine	3,300	10,500	10	42001050	CC-VRW 115 A 280
125	A	100	medium	3,100	9,650	10	42001062	CC-VRW 125 A 100
		180	fine	3,100	9,650	10	42001061	CC-VRW 125 A 180
		280	very fine	3,100	9,650	10	42001060	CC-VRW 125 A 280






### Hard type CC-VRH

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



#### Special features:

- Ideal for face-down grinding on medium-sized and large surfaces.
- Little wear due to high tear strength. The open structure of the non-woven material prevents tool clogging.
- The innovative quick-mounting system ensures convenient handling and cool grinding. Order necessary backing pad separately.

D [mm]	Abrasive	Grit size	Version	Opt. RPM	Max. RPM		Item no.	Designation
115	A	100 G	coarse, yellow-brown	3,300	10,500	10	42000052	CC-VRH 115 A 100 G
		180 M	medium, red-brown	3,300	10,500	10	42000051	CC-VRH 115 A 180 M
		240 F	fine, blue	3,300	10,500	10	42000050	CC-VRH 115 A 240 F
125	A	100 G	coarse, yellow-brown	3,100	9,650	10	42000062	CC-VRH 125 A 100 G
		180 M	medium, red-brown	3,100	9,650	10	42000061	CC-VRH 125 A 180 M
		240 F	fine, blue	3,100	9,650	10	42000060	CC-VRH 125 A 240 F




### 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	W (soft)	fine	5,000	8,350	5	42002046	CC-PNER W 115 SiC F
		MW (medium-soft)	fine	5,000	8,350	5	42002086	CC-PNER MW 115 SiC F
		MH (medium-hard)	fine	5,000	8,350	5	42002146	CC-PNER MH 115 SiC F
	A	H (hard)	fine	5,000	8,350	5	42002182	CC-PNER H 115 A F
125	SiC	W (soft)	fine	4,500	7,650	5	42002056	CC-PNER W 125 SiC F
		MW (medium-soft)	fine	4,500	7,650	5	42002096	CC-PNER MW 125 SiC F
		MH (medium-hard)	fine	4,500	7,650	5	42002156	CC-PNER MH 125 SiC F
	A	H (hard)	fine	4,500	7,650	5	42002192	CC-PNER H 125 A F



### 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.

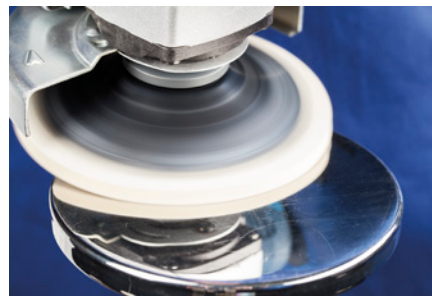
D [mm]	Abrasive		Item no.	Designation
125	SiC	5	44692274	CC-PCLD 125

### Felt discs CC-FR




### CC-FR type

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



**Special features:**

- Ideal for face-down grinding on medium-sized and large surfaces.
- High economic efficiency due to very long tool life. Focused working over the entire lifespan thanks to high dimensional stability.
- The innovative quick-mounting system ensures convenient handling and cool grinding. Order necessary backing pad separately.

D [mm]	Opt. RPM	Max. RPM		Item no.	Designation
115	1,650	10,500	5	42003015	CC-FR 115
125	1,500	9,650	5	42003025	CC-FR 125






### CC-GT (medium) type

With this backing pad, COMBICLICK tools can be used on commercially available angle grinders. Various hardness levels for different applications and results.

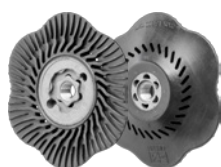


**Special features:**

- The innovative quick-mounting system ensures convenient handling and rapid tool changing.
- The geometry of the cooling slots significantly reduces the thermal load. High economic efficiency due to minimal tool change times.
- The hardness CC-GT (medium) is indicated by the black colour.

Suitable for tool diameter [mm]	Thread	Hardness	Suitable for machine types	Max. RPM		Item no.	Designation
100	M10	medium	Angle grinders 100, spindle M10	15,300	1	44890190	CC-GT 100 M10
115, 125	M14	medium	Angle grinders 115 / 125, spindle M14	13,300	1	44890150	CC-GT 115-125 M14
						49900034	POS CC-S-GT 115-125 M14
125	M14	medium	Angle grinder 125, spindle M14	12,200	1	44890151	CC-GT 125 M14
180	M14	medium	Angle grinders 180, spindle M14	8,500	1	44890170	CC-GT 180 M14

4 




### CC-S-GT (soft) type

With this backing pad, COMBICLICK tools can be used on commercially available angle grinders.

**Special features:**

- The innovative quick-mounting system ensures convenient handling and rapid tool changing.
- The geometry of the cooling slots significantly reduces the thermal load. High economic efficiency due to minimal tool change times.
- The hardness CC-S-GT (soft) is indicated by the grey colour.

Suitable for tool diameter [mm]	Thread	Hardness	Suitable for machine types	Max. RPM		Item no.	Designation
115, 125	M14	soft	Angle grinders 115 / 125, spindle M14	13,300	1	44890153	CC-S-GT 115-125 M14




### CC-H-GT (hard) type

With this backing pad, COMBICLICK tools can be used on commercially available angle grinders.

**Special features:**

- The innovative quick-mounting system ensures convenient handling and rapid tool changing.
- The geometry of the cooling slots significantly reduces the thermal load. High economic efficiency due to minimal tool change times.
- The hardness CC-H-GT (hard) is indicated by the blue colour.

Suitable for tool diameter [mm]	Thread	Hardness	Suitable for machine types	Max. RPM		Item no.	Designation
115, 125	M14	hard	Angle grinders 115 / 125, spindle M14	13,300	1	64199002	CC-H-GT 115-125 M14



**CC-SET**


Set for work on surfaces, from coarse to mirror-polished.

**Contents:**

Three each of the following COMBICLICK fibre discs with abrasive and grit size: CO-COOL 36, CO-COOL 120 and A-COOL 220, one each of the following COMBICLICK non-woven discs: VRH A 180 M, VRH A 100 G, VRW A 280, VRW A 180, VRW A 100, PNER W SiC F, one universal polishing paste, one COMBICLICK felt disc and one COMBICLICK backing pad.

**Special features:**

- The innovative quick-mounting system ensures convenient handling and rapid tool changing.
- Ideal selection for completing a variety of tasks and getting to know the system.
- Coordinated selection of the most common versions.

Diameter [mm]	Thread [mm]		Item no.	Designation
115	M14	1	49350071	CC-SET 115 M14
125	M14	1	49350072	CC-SET 125 M14



**CC-POLIERSET 125**


The PFERD TOOLS COMBICLICK polishing set is suitable for general use when performing all kinds of polishing work. The set with dia. 125 mm contains all necessary tools, from fine grinding (grit size 180) to mirror polishing.

**Contents:**

One backing pad CC-S-GT 115-125 M14, two each of the following COMBICLICK fibre discs: A-COOL 180 and 220, one COMBICLICK non-woven disc CC-PNER-MH 125 SiC F, two felt discs CC-FR 125, one each of the following polishing paste bars: STEELOX and UNIVERSAL.

**Special features:**

- The innovative quick-mounting system ensures convenient handling and rapid tool changing.
- Coordinated selection of the most common versions.

	Item no.	Designation
1	49900029	CC-SET 125 FINE



**CC set CO-COOL**


The PFERD TOOLS COMBICLICK-CO-COOL set is suitable for getting to know the innovative COMBICLICK system in conjunction with the CO-COOL high-performance abrasive. The set contains CC fibre discs, used for applications such as work on weld seams.

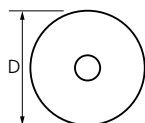
**Contents:**

One backing pad CC-S-GT 115-125 M14, one each of the following COMBICLICK fibre discs: CC-FS 115 CO-COOL 36, 60 and 80, one COMBICLICK fibre disc CC-FS 125 CO-COOL 36.

**Special features:**

- The innovative quick-mounting system ensures convenient handling and rapid tool changing.
- Coordinated selection of the most common versions.

	Item no.	Designation
1	75520200	CC set 115/125 CO-COOL



**COMBICLICK set CO-COOL**

The set contains COMBICLICK fibre discs suitable for a selection of different applications, for 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.


**Contents:**

One CC-FS 115 CO-COOL fibre disc in each of the following grit sizes: 36, 60 and 80, one CC-FS 125 CO-COOL 36 fibre disc and one backing pad CC-GT 115-125 M14.

- Using COMBICLICK helps to avoid scratches caused by protruding clamping pieces, and exploits the abrasive material that is available.
- Extremely quick and easy tool changes, which reduces process costs.

**Special features:**

- The innovative quick-mounting system ensures convenient handling and cool grinding.

Diameter [mm]		Item no.	Designation
125	1	49900039	POS SET CC-FS 125 CO-COOL 36/60/80

### 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!

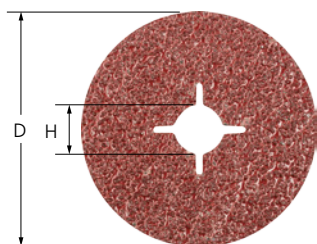


Follow the safety instructions!



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.

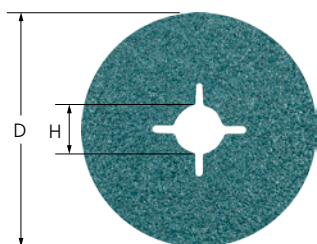
D [mm]	H [mm]	Abrasive	Grit size	Max. RPM		Item no.	Designation
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#### slotted

125	22	A	16	12,200	25	64101125	FS 125-22 A 16
			24	12,200	25	64102125	FS 125-22 A 24
			36	12,200	25	64103125	FS 125-22 A 36
			60	12,200	25	64106125	FS 125-22 A 60
			80	12,200	25	64108125	FS 125-22 A 80
			120	12,200	25	64112125	FS 125-22 A 120

#### unslotted

100	16	A	16	15,300	25	69400019	FS 100-16 A 16
			24	15,300	25	69401016	FS 100-16 A 24
			36	15,300	25	69401015	FS 100-16 A 36
			60	15,300	25	69401023	FS 100-16 A 60
			80	15,300	25	69401024	FS 100-16 A 80
			120	15,300	25	69401067	FS 100-16 A 120
180	22	A	16	8,500	25	69401029	FS 180-22 OS A 16
			24	8,500	25	69401004	FS 180-22 OS A 24
			36	8,500	25	69401005	FS 180-22 OS A 36
			60	8,500	25	69401001	FS 180-22 OS A 60
			80	8,500	25	69401006	FS 180-22 OS 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.

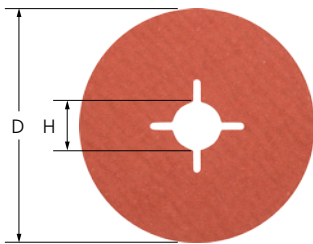
D [mm]	H [mm]	Abrasive	Grit size	Max. RPM		Item no.	Designation
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#### slotted

125	22	Z	24	12,200	25	64202125	FS 125-22 Z 24
			36	12,200	25	64203125	FS 125-22 Z 36
			60	12,200	25	64206125	FS 125-22 Z 60
			80	12,200	25	64208125	FS 125-22 Z 80
			120	12,200	25	64212125	FS 125-22 Z 120

Continued on next page

D [mm]	H [mm]	Abrasive	Grit size	Max. RPM		Item no.	Designation
<b>unslotted</b>							
100	16	Z	24	15,300	25	69400014	FS 100-16 Z 24
			36	15,300	25	69400016	FS 100-16 Z 36
			60	15,300	25	69400017	FS 100-16 Z 60
			80	15,300	25	69400018	FS 100-16 Z 80
			120	15,300	25	69400015	FS 100-16 Z 120
180	22	Z	24	8,500	25	69401147	FS 180-22 OS Z 24
			36	8,500	25	69401048	FS 180-22 OS Z 36
			60	8,500	25	69401073	FS 180-22 OS Z 60
			80	8,500	25	69401149	FS 180-22 OS Z 80




### Aluminium oxide A-COOL version

For general grinding work from fine to very fine grinding on materials which do not conduct heat well, e.g. stainless steel (INOX). Active grinding additives substantially improve the stock removal rate, prevent clogging and result in cooler grinding.

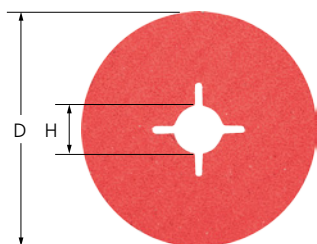


#### Special features:

- High economic efficiency 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
<b>slotted</b>							
125	22	A-COOL	60	12,200	25	64126125	FS 125-22 A-COOL 60
			80	12,200	25	64128125	FS 125-22 A-COOL 80
			120	12,200	25	64132125	FS 125-22 A-COOL 120






### Ceramic oxide grain CO-COOL version

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



#### Special features:

- High economic efficiency thanks to long tool life and very high stock removal rate.
- Consistent surface finish thanks to high-quality abrasives. Highly flexible, enabling optimal adjustment to the contour.
- Optimal adjustment to the contour in conjunction with the matching backing pad. Please order backing pad separately.

D [mm]	H [mm]	Abrasive	Grit size	Max. RPM		Item no.	Designation
<b>slotted</b>							
125	22	CO-COOL	36	12,200	25	64173125	FS 125-22 CO-COOL 36
			60	12,200	25	64176125	FS 125-22 CO-COOL 60
			80	12,200	25	64178125	FS 125-22 CO-COOL 80
			100	12,200	25	64180125	FS 125-22 CO-COOL 100
			120	12,200	25	64182125	FS 125-22 CO-COOL 120
180	22	CO-COOL	36	8,500	25	64173175	FS 180-22 CO-COOL 36
			60	8,500	25	64176175	FS 180-22 CO-COOL 60
			80	8,500	25	64178175	FS 180-22 CO-COOL 80
			120	8,500	25	64182175	FS 180-22 CO-COOL 120
<b>unslotted</b>							
100	16	CO-COOL	36	15,300	25	69401553	FS 100-16 CO-COOL 36
			60	15,300	25	69401555	FS 100-16 CO-COOL 60
			80	15,300	25	69401556	FS 100-16 CO-COOL 80
			120	15,300	25	69401584	FS 100-16 CO-COOL 120

## 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
100	M10	Angle grinders 100, spindle M10	15,300	1	44890015	GT 100 MF M10
125	M14	Angle grinder 125, spindle M14	12,200	1	44890040	GT 125 MF M14
180	M14	Angle grinders 180, spindle M14	8,500	1	44890060	GT 180 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
100	M10x1.50	Angle grinders 100, spindle M10	15,300	1	47600048	H-GT 100 MF M10x1,5
125	M14	Angle grinder 125, spindle M14	12,200	1	44890090	H-GT 125 MF M14
180	M14	Angle grinders 180, spindle M14	8,500	1	44890100	H-GT 180 MF M14




### HT-GT type

Flexible and extremely temperature-resistant backing pad for fibre discs with a long tool life due to the highly temperature-resistant material. Enables high-precision work thanks to high flexibility. Complies with ISO 15636.

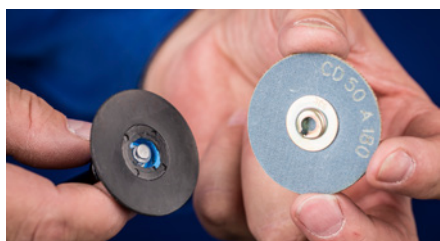
**Special features:**

- For use with fibre discs on commercially available angle grinders.

Suitable for tool diameter [mm]	Thread	Suitable for machine types	Max. RPM		Item no.	Designation
125	M14	Angle grinder 125, spindle M14	12,200	1	44890210	HT-GT 125 MF M14
180	M14	Angle grinders 180, spindle M14	8,500	1	44890220	HT-GT 180 MF M14



## 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



			Abrasive ▶									
Material group ▼			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	VICTO GRAIN-COOL	Abrasive discs Diamond	POLICLEAN discs	Non-woven discs PNER, VRH, VRW
Steel, cast steel	Non-hardened, non-heat-treated steels	Construction steels, carbon steels, tool steels, non-alloyed steels, cast steel	•		○			•	•		•	•
	Hardened, heat-treated steels	Tool steels, tempering steels, alloyed steels, cast steel	○	•	•			•	•		○	○
Stainless steel (INOX)	Rust and acid-resistant steels	Austenitic and ferritic stainless steels		•	○		•	•	•		•	•
Non-ferrous metals	Soft non-ferrous metals, non-ferrous metals	Soft aluminium alloys	○				•	○			•	•
		Brass, copper, zinc	•		○						•	•
	Hard non-ferrous metals	Hard aluminium alloys	•		○	○					•	•
		Bronze, titanium			○	•		•	•	•	○	•
	High-temperature-resistant materials	Nickel-based and cobalt-based alloys			○			•	•	•	○	•
Cast iron	Grey cast iron, white cast iron	Cast iron with flake graphite EN-GJL (GG), with nodular graphite/nodular cast iron EN-GJS (GGG), white annealed cast iron EN-GJMW (GTW), black annealed cast iron EN-GJMB (GTS)	•		○						•	•
Plastics, other materials		Fibre-reinforced plastics, thermoplastics, wood, chipboard, paint	•			•				•	•	•

• = highly suitable ○ = suitable

## Safety notes

- The maximum permitted peripheral speed is 50 m/s.
- For safety reasons, the maximum permitted rotational speed indicated must never be exceeded.



Wear eye protection!



Wear hearing protection!



Wear gloves!



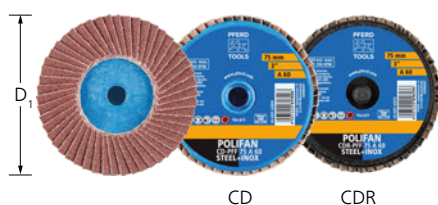
Wear a dust mask!



Follow the safety instructions!



## Mini-POLIFAN CD, CDR





### Aluminium oxide A version

For general coarse grinding work with high stock removal rates. Ideal for dressing weld seams in hard-to-reach places. Longer tool life and higher stock removal rate when compared to abrasive discs.

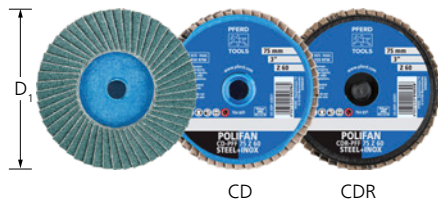


#### Special features:

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

D <sub>1</sub> [mm]	Abrasive	Grit size	Suitable arbors	Opt. RPM		Item no.	Designation
<b>CDR system</b> 							
50	A	40	SBHR 20-75	12,000 – 14,000	10	47202527	CDR PFF 50 A 40
		60	SBHR 20-75	12,000 – 14,000	10	47202528	CDR PFF 50 A 60
		80	SBHR 20-75	12,000 – 14,000	10	47202090	CDR PFF 50 A 80
		120	SBHR 20-75	12,000 – 14,000	10	47202529	CDR PFF 50 A 120
75	A	40	SBHR 20-75	8,000 – 10,000	10	47202530	CDR PFF 75 A 40
		60	SBHR 20-75	8,000 – 10,000	10	47202531	CDR PFF 75 A 60
		80	SBHR 20-75	8,000 – 10,000	10	47202091	CDR PFF 75 A 80
		120	SBHR 20-75	8,000 – 10,000	10	47202532	CDR PFF 75 A 120





**Zirconia alumina Z version**

For coarse grinding work with a high stock removal rate and a long tool life.



**Special features:**

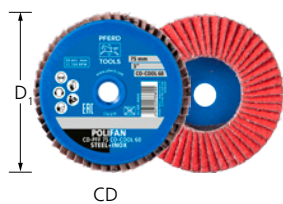
- Very comfortable due to ease of use and low-vibration working.
- No disruptions in use due to adhesion, slipping or coming loose.
- High economic efficiency as tool can be changed quickly thanks to innovative COMBIDISC clamping system. Please order abrasive disc holder separately.

D <sub>1</sub> [mm]	Abrasive	Grit size	Suitable arbors	Opt. RPM		Item no.	Designation
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**CDR system**



50	Z	40	SBHR 20-75	12,000 – 14,000	10	47202125	CDR PFF 50 Z 40
		60	SBHR 20-75	12,000 – 14,000	10	47202126	CDR PFF 50 Z 60
		80	SBHR 20-75	12,000 – 14,000	10	47202533	CDR PFF 50 Z 80
		120	SBHR 20-75	12,000 – 14,000	10	47202534	CDR PFF 50 Z 120
75	Z	40	SBHR 20-75	8,000 – 10,000	10	47202101	CDR PFF 75 Z 40
		60	SBHR 20-75	8,000 – 10,000	10	47202535	CDR PFF 75 Z 60
		80	SBHR 20-75	8,000 – 10,000	10	47202536	CDR PFF 75 Z 80
		120	SBHR 20-75	8,000 – 10,000	10	47202092	CDR PFF 75 Z 120



**CO-COOL version**

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

**Special features:**

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

D <sub>1</sub> [mm]	Abrasive	Grit size	Opt. RPM		Item no.	Designation
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**CDR system**

50	CO-COOL	120		12,000 – 14,000	10	42719115	CDR-PFF 50 CO-COOL 120
		40		12,000 – 14,000	10	42719111	CDR-PFF 50 CO-COOL 40
		60		12,000 – 14,000	10	42719113	CDR-PFF 50 CO-COOL 60
		80		12,000 – 14,000	10	42719114	CDR-PFF 50 CO-COOL 80
75	CO-COOL	120		8,000 – 10,000	10	42719119	CDR-PFF 75 CO-COOL 120
		400		8,000 – 10,000	10	42719116	CDR-PFF 75 CO-COOL 40
		60		8,000 – 10,000	10	42719117	CDR-PFF 75 CO-COOL 60
		80		8,000 – 10,000	10	42719118	CDR-PFF 75 CO-COOL 80




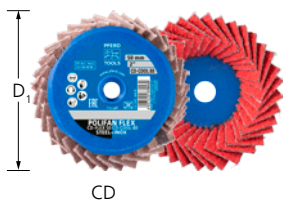
### Aluminium oxide A version

For general coarse grinding work with high stock removal rates. Ideal for dressing weld seams in hard-to-reach places. Longer tool life and higher stock removal rate when compared to abrasive discs.

**Special features:**

- Ideally suited to grinding smaller fillet weld geometries.
- Particularly suitable for contour grinding due to the flexible arrangement of the flaps.
- High economic efficiency as tool can be changed quickly. Please order necessary abrasive disc holder separately.

D <sub>1</sub> [mm]	Abrasive	Grit size	Opt. RPM		Item no.	Designation
<b>CDR system</b>						
50	A	40	12,000 – 14,000	10	42719808	CDR-FLEX 50 A 40
		60	12,000 – 14,000	10	42719809	CDR-FLEX 50 A 60
		80	12,000 – 14,000	10	42719810	CDR-FLEX 50 A 80
		120	12,000 – 14,000	10	42719811	CDR-FLEX 50 A 120
75	A	40	8,000 – 10,000	10	42719812	CDR-FLEX 75 A 40
		60	8,000 – 10,000	10	42719813	CDR-FLEX 75 A 60
		80	8,000 – 10,000	10	42719814	CDR-FLEX 75 A 80
		120	8,000 – 10,000	10	42719815	CDR-FLEX 75 A 120




### Ceramic oxide grain CO-COOL version

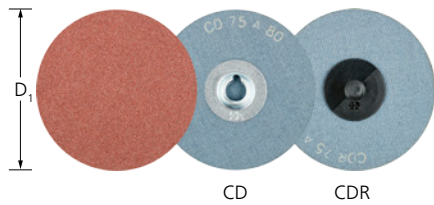
For aggressive grinding with maximum stock removal rate on hard materials which do not conduct heat well. Ideal for dressing weld seams in hard-to-reach places.

**Special features:**

- Ideally suited to grinding smaller fillet weld geometries.
- Particularly suitable for contour grinding due to the flexible arrangement of the flaps.
- High economic efficiency as tool can be changed quickly. Please order necessary abrasive disc holder separately.

D <sub>1</sub> [mm]	Abrasive	Grit size	Opt. RPM		Item no.	Designation
<b>CDR system</b>						
50	CO-COOL	120	12,000 – 14,000	10	42719827	CDR-FLEX 50 CO-COOL 120
		40	12,000 – 14,000	10	42719824	CDR-FLEX 50 CO-COOL 40
		60	12,000 – 14,000	10	42719825	CDR-FLEX 50 CO-COOL 60
		80	12,000 – 14,000	10	42719826	CDR-FLEX 50 CO-COOL 80
75	CO-COOL	120	8,000 – 10,000	10	42719831	CDR-FLEX 75 CO-COOL 120
		40	8,000 – 10,000	10	42719828	CDR-FLEX 75 CO-COOL 40
		60	8,000 – 10,000	10	42719829	CDR-FLEX 75 CO-COOL 60
		80	8,000 – 10,000	10	42719830	CDR-FLEX 75 CO-COOL 80







## Aluminium oxide A version

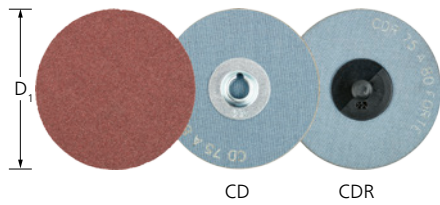
For general coarse to fine grinding applications in industry and professional trades.



### 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 <sub>1</sub> [mm]	Abrasive	Grit size	Opt. RPM		Item no.	Designation
<b>CDR system</b> 						
20	A	60	20,000 – 35,000	100	42770206	CDR 20 A 60
		80	20,000 – 35,000	100	42770208	CDR 20 A 80
		120	20,000 – 35,000	100	42770212	CDR 20 A 120
25	A	60	15,000 – 26,000	100	42770306	CDR 25 A 60
		80	15,000 – 26,000	100	42770308	CDR 25 A 80
		120	15,000 – 26,000	100	42770312	CDR 25 A 120
38	A	60	10,000 – 16,000	100	42770406	CDR 38 A 60
		80	10,000 – 16,000	100	42770408	CDR 38 A 80
		120	10,000 – 16,000	100	42770412	CDR 38 A 120
50	A	36	8,000 – 13,000	1	47200072	POS CDR 50 A 36
				100	42770503	CDR 50 A 36
		60	8,000 – 13,000	1	47200073	POS CDR 50 A 60
				100	42770506	CDR 50 A 60
		80	8,000 – 13,000	1	47200074	POS CDR 50 A 80
				100	42770508	CDR 50 A 80
		120	8,000 – 13,000	100	42770512	CDR 50 A 120
180	8,000 – 13,000	100	42770518	CDR 50 A 180		
75	A	36	5,000 – 9,000	1	47200084	POS CDR 75 A 36
				50	42770703	CDR 75 A 36
		60	5,000 – 9,000	1	47200085	POS CDR 75 A 60
				50	42770706	CDR 75 A 60
		80	5,000 – 9,000	1	47200086	POS CDR 75 A 80
				50	42770708	CDR 75 A 80
		120	5,000 – 9,000	50	42770712	CDR 75 A 120
180	5,000 – 9,000	50	42770718	CDR 75 A 180		
320	5,000 – 9,000	50	42770732	CDR 75 A 320		





**Aluminium oxide A-FORTE version**

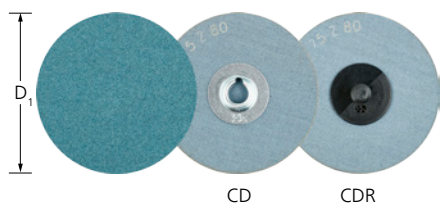
For general applications from coarse to fine grinding, with a high stock removal rate and long tool life.



**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 <sub>1</sub> [mm]	Abrasive	Grit size	Opt. RPM		Item no.	Designation
<b>CDR system</b> 						
50	A-FORTE	36 FORTE	8,000 – 13,000	100	42771503	CDR 50 A 36 FORTE
		60 FORTE	8,000 – 13,000	100	42771506	CDR 50 A 60 FORTE
		80 FORTE	8,000 – 13,000	100	42771508	CDR 50 A 80 FORTE
		120 FORTE	8,000 – 13,000	100	42771512	CDR 50 A 120 FORTE
75	A-FORTE	36 FORTE	5,000 – 9,000	50	42771703	CDR 75 A 36 FORTE
		60 FORTE	5,000 – 9,000	50	42771706	CDR 75 A 60 FORTE
		80 FORTE	5,000 – 9,000	50	42771708	CDR 75 A 80 FORTE
		120 FORTE	5,000 – 9,000	50	42771712	CDR 75 A 120 FORTE





**Zirconia alumina Z version**

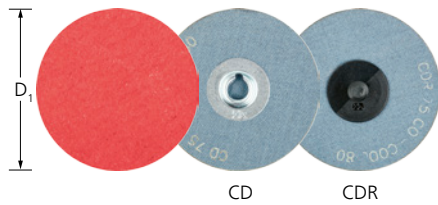
For coarse grinding work with a high stock removal rate and a long tool life. Particularly high stock removal rate in coarse grinding applications using grit sizes 36 and 60.



**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 <sub>1</sub> [mm]	Abrasive	Grit size	Opt. RPM		Item no.	Designation
<b>CDR system</b> 						
50	Z	36	3,800 – 13,000	100	42773503	CDR 50 Z 36
				1	47200075	POS CDR 50 Z 36
		60	3,800 – 13,000	100	42773506	CDR 50 Z 60
				1	47200076	POS CDR 50 Z 60
		80	3,800 – 13,000	100	42773508	CDR 50 Z 80
				1	47200077	POS CDR 50 Z 80
75	Z	36	2,500 – 9,000	50	42773703	CDR 75 Z 36
				1	47200087	POS CDR 75 Z 36
		60	2,500 – 9,000	50	42773706	CDR 75 Z 60
				1	47200088	POS CDR 75 Z 60
		80	2,500 – 9,000	50	42773708	CDR 75 Z 80
				1	47200089	POS CDR 75 Z 80





**Ceramic oxide grain CO-COOL version**

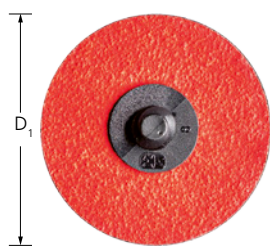
Consistently high performance and aggressive grinding due to self-sharpening ceramic oxide grain. Active grinding additives improve the stock removal rate, prevent clogging and result in cooler grinding on hard materials which do not conduct heat well.



**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
<b>CDR system</b> 						
38	CO-COOL	60	5,000 – 16,000	100	42776406	CDR 38 CO-COOL 60
50	CO-COOL	36	3,800 – 13,000	100	42776503	CDR 50 CO-COOL 36
				1	47200078	POS CDR 50 CO-COOL 36
		60	3,800 – 13,000	100	42776506	CDR 50 CO-COOL 60
				1	47200079	POS CDR 50 CO-COOL 60
		80	3,800 – 13,000	100	42776508	CDR 50 CO-COOL 80
				1	47200080	POS CDR 50 CO-COOL 80
120	3,800 – 13,000	100	42776512	CDR 50 CO-COOL 120		
75	CO-COOL	36	2,500 – 9,000	50	42776703	CDR 75 CO-COOL 36
				1	47200090	POS CDR 75 CO 36
		60	2,500 – 9,000	50	42776706	CDR 75 CO-COOL 60
				1	47200091	POS CDR 75 CO 60
		80	2,500 – 9,000	50	42776708	CDR 75 CO-COOL 80
				1	47200092	POS CDR 75 CO 80
120	2,500 – 9,000	50	42776712	CDR 75 CO-COOL 120		





**RS ceramic oxide grain CO-COOL mini fibre disc version**

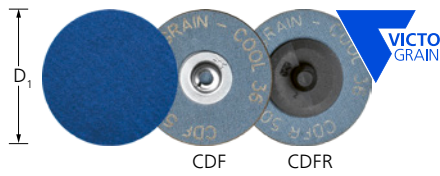
Consistently high performance and aggressive grinding due to self-sharpening ceramic oxide grain. Active grinding additives improve the stock removal rate, prevent clogging and result in cooler grinding on hard materials which do not conduct heat well.



**Special features:**

- Excellent for weld dressing of backwards repair welds, e.g. in cases, slots and grooves on engines.
- The abrasive coating is located on the underside of the tool. This enables convenient and safe backwards working in hard-to-reach areas.
- Ideal for work on welded-on combustor plates. Order necessary backing pad separately.

$D_1$ [mm]	Abrasive	Grit size	Opt. RPM		Item no.	Designation
<b>CDR system</b> 						
75	CO-COOL	120	2,500 – 9,000	50	42799015	CDR 75 CO-COOL 120 RS





**VICTOGRAIN-COOL mini fibre discs type**

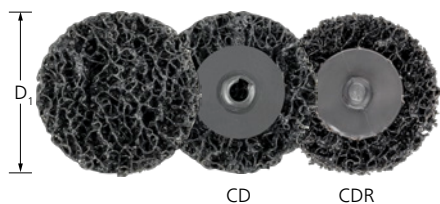
For maximum aggressive grinding with an extremely long tool life, the ultimate stock removal rate and consistently high performance on steel and hard materials which do not conduct heat well. Active grinding additives in the coating prevent clogging and result in cooler grinding.

**Special features:**

- Excellent for surface and edge grinding. The fibre backing strengthens the abrasive disc and improves stock removal.
- High economic efficiency as tool can be changed quickly. Very comfortable due to ease of use and low-vibration working.
- Please order necessary backing pad separately. No disruptions in use due to adhesion, slipping or coming loose.

D <sub>1</sub> [mm]	Abrasive	Grit size	Opt. RPM		Item no.	Designation
<b>CDR system</b> 						
38	VICTOGRAIN-COOL	60	5,000 – 16,000	100	42713860	CDR 38 VICTOGRAIN-COOL 60
		80	5,000 – 16,000	100	42713880	CDR 38 VICTOGRAIN-COOL 80
50	VICTOGRAIN-COOL	36	3,800 – 13,000	100	42715036	CDFR 50 VICTOGRAIN-COOL 36
		60	3,800 – 13,000	100	42715060	CDR 50 VICTOGRAIN-COOL 60
		80	3,800 – 13,000	100	42715080	CDR 50 VICTOGRAIN-COOL 80
75	VICTOGRAIN-COOL	36	2,500 – 9,000	50	42717536	CDFR 75 VICTOGRAIN-COOL 36
		60	2,500 – 9,000	50	42717560	CDR 75 VICTOGRAIN-COOL 60
		80	2,500 – 9,000	50	42717580	CDR 75 VICTOGRAIN-COOL 80

**POLICLEAN discs CD, CDR**





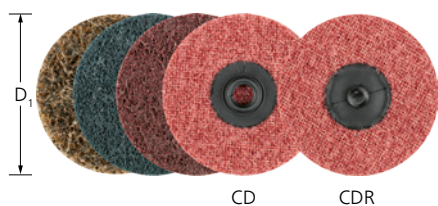
**POLICLEAN standard type**

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 <sub>1</sub> [mm]	Version	Abrasive	Opt. RPM		Item no.	Designation
<b>CDR system</b> 						
50	PCLR	SiC	5,500 – 8,000	10	47201632	CDR 50 PCLR
				1	47200099	POS CDR 50 PCLR (3)
75	PCLR	SiC	3,800 – 5,000	10	47201633	CDR 75 PCLR
				1	47200100	POS CDR 75 PCLR (3)





## 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 <sub>1</sub> [mm]	Abrasive	Grit size	Version	Opt. RPM		Item no.	Designation
<b>CDR system</b> 							
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
	A	100 G	coarse, yellow-brown	5,500 – 7,500	1	47200081	POS CDR VRH 50 100 G
		180 M	medium, red-brown	5,500 – 7,500	1	47200082	POS CDR VRH 50 180 M
		240 F	fine, blue	5,500 – 7,500	1	47200083	POS CDR VRH 50 240 F
75	A	100 G	coarse, yellow-brown	3,800 – 5,000	1	47200093	POS CDR VRH 75 100 G
			25		42781751	CDR VRH 75 A 100 G	
	A	180 M	medium, red-brown	3,800 – 5,000	1	47200094	POS CDR VRH 75 180 M
			25		42781752	CDR VRH 75 A 180 M	
	A	240 F	fine, blue	3,800 – 5,000	1	47200095	POS CDR VRH 75 240 F
					25	42781754	CDR VRH 75 A 240 F





## 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:

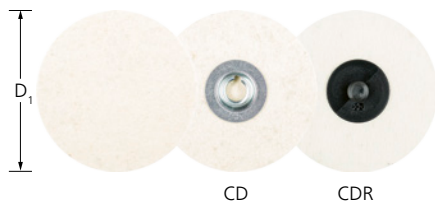
- Very comfortable due to ease of use and low-vibration working.
- No disruptions in use due to adhesion, slipping or coming loose.
- High economic efficiency as tool can be changed quickly thanks to innovative COMBIDISC clamping system. Please order abrasive disc holder separately.

D <sub>1</sub> [mm]	Version	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
<b>CDR system</b> 								
50	W (soft)	A	G (coarse)	9,500	19,100	1	49900053	POS CDR PNER W 5006 A CRS (5)
						25	42779021	CDR PNER-W 5006 A G
	SiC	F (fine)	9,500	19,100	1	49900054	POS CDR PNER W 5006 SiC F (5)	
					25	42779024	CDR PNER-W 5006 SiC F	

Continued on next page

D <sub>1</sub> [mm]	Version	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
50	MH (medium-hard)	A	F (fine)	9,500	19,100	25	42779102	CDR PNER-MH 5006 A F
		SiC	F (fine)	9,500	19,100	25	42779104	CDR PNER-MH 5006 SiC F
	H (hard)	A	G (coarse)	9,500	19,100	25	42779141	CDR PNER-H 5006 A G
		A	F (fine)	9,500	19,100	25	42779142	CDR PNER-H 5006 A F
75	W (soft)	A	G (coarse)	6,400	12,500	1	49900055	POS CDR PNER W 7506 A G (3)
			F (fine)	6,400	12,500	25	42779031	CDR PNER-W 7506 A G
		SiC	F (fine)	6,400	12,500	1	49900056	POS CDR PNER W 7506 SiC F (3)
			F (fine)	6,400	12,500	25	42779034	CDR PNER-W 7506 SiC F
	MH (medium-hard)	A	F (fine)	6,400	12,500	25	42779112	CDR PNER-MH 7506 A F
		SiC	F (fine)	6,400	12,500	25	42779114	CDR PNER-MH 7506 SiC F
	H (hard)	A	G (coarse)	6,400	12,500	25	42779151	CDR PNER-H 7506 A G
			F (fine)	6,400	12,500	25	42779152	CDR PNER-H 7506 A F

## Felt discs CD, CDR





### FR version

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

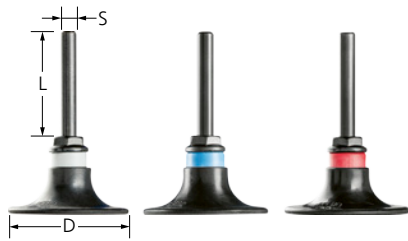


#### Special features:

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

D <sub>1</sub> [mm]	Opt. RPM		Item no.	Designation
<b>CDR system</b> 				
50	2,000 – 4,000	10	42003050	CDR FR 50
		1	47200097	POS CDR FR 50 (5)
75	1,200 – 2,500	10	42003075	CDR FR 75
		1	47200098	POS CDR FR 75 (3)







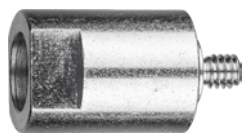
### SBH, SBHR types

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
<b>CDR system</b> 							
20	6	40	M (medium)	47,500	1	42721212	SBHR 20 M
25	6	40	M (medium)	38,000	1	42721262	SBHR 25 M
38	6	40	M (medium)	25,000	1	42721392	SBHR 38 M
50	6	40	M (medium)	19,000	1	42721512	SBHR 50 M
						47600070	POS SBHR 50
75	6	40	M (medium)	12,500	1	42721762	SBHR 75 M
						47600071	POS SBHR 75



### Adapter for drives with M14 spindle

The shank of the abrasive disc holders can be replaced by this adapter. AF M5 CD 1/4-20 UNC, male thread M5, male thread 1/4-20 UNC.

#### Special features:

- Suitable for drives with M14 spindle.
- With the adapter, the abrasive disc holder can be mounted directly to the drive spindle of the tool drive.

Female thread	External thread		Item no.	Designation
M14	1/4-20 UNC	1	75602528	AF 1/4-20 - M14 CD




### Adapter for drives with M10 spindle

The shank of the abrasive disc holders can be replaced by this adapter. AF M5 CD 1/4-20 UNC, male thread M5, male thread 1/4-20 UNC.

#### Special features:

- Suitable for drives with M10 spindle.
- With the adapter, the abrasive disc holder can be mounted directly to the drive spindle of the tool drive.

Female thread	External thread	Suitable for		Item no.	Designation
M14	1/4-20 UNC	1/4-20 UNC	1	75602529	AF 1/4-20 - M10x1.5 CD

### The quick way to find the perfect tool

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
Material group ▼												
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](http://www.pferd.com).



Wear eye protection!



Wear hearing protection!



Wear gloves!



Wear a dust mask!



Follow the safety instructions!

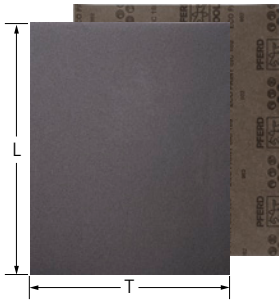


Not permitted for wet grinding!



# Flexible abrasives

## 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:

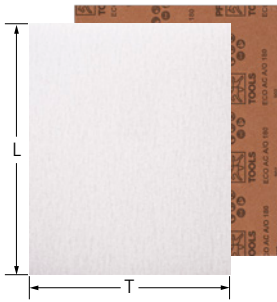
- Very good grain adhesion on very flexible and light paper.
- Maximum abrasive performance.
- Can be used for wet and dry grinding.

L [mm]	T [mm]	Abrasive	Grit size		Item no.	Designation
280	230	SiC	60	1	45017861	POS BP-W ECO PAINT 230x280 SiC60 (5)
				50	45015254	BP-W ECO PAINT 230X280 SiC 60
			80	1	45017862	POS BP-W ECO PAINT 230x280 SiC80 (5)
				50	45015255	BP-W ECO PAINT 230X280 SiC 80
			100	1	45017863	POS BP-W ECO PAINT 230x280 SiC100 (5)
				50	45015256	BP-W ECO PAINT 230X280 SiC 100
			120	1	45017864	POS BP-W ECO PAINT 230x280 SiC120 (5)
				50	45015257	BP-W ECO PAINT 230X280 SiC 120
			150	1	45017865	POS BP-W ECO PAINT 230x280 SiC150 (5)
				50	45015258	BP-W ECO PAINT 230X280 SiC 150
			180	1	45017866	POS BP-W ECO PAINT 230x280 SiC180 (5)
				50	45015259	BP-W ECO PAINT 230X280 SiC 180
			240	1	45017868	POS BP-W ECO PAINT 230x280 SiC240 (5)
				50	45015261	BP-W ECO PAINT 230X280 SiC 240
			320	1	45017869	POS BP-W ECO PAINT 230x280 SiC320 (5)
				50	45015262	BP-W ECO PAINT 230X280 SiC 320
			400	1	45017870	POS BP-W ECO PAINT 230x280 SiC400 (5)
				50	45015263	BP-W ECO PAINT 230X280 SiC 400
			600	1	45017871	POS BP-W ECO PAINT 230x280 SiC600 (5)
				50	45015264	BP-W ECO PAINT 230X280 SiC 600
			800	1	45017872	POS BP-W ECO PAINT 230x280 SiC800 (5)
				50	45015265	BP-W ECO PAINT 230X280 SiC 800
			1000	1	45017873	POS BP-W ECO PAINT 230x280 SiC1000 (5)
				50	45015266	BP-W ECO PAINT 230X280 SiC1000
1200	1	45017874	POS BP-W ECO PAINT 230x280 SiC1200 (5)			
	50	45015267	BP-W ECO PAINT 230X280 SiC1200			
2000	1	45017875	POS BP-W ECO PAINT 230x280 SiC2000 (5)			
	50	45015268	BP-W ECO PAINT 230X280 SiC2000			



# 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:

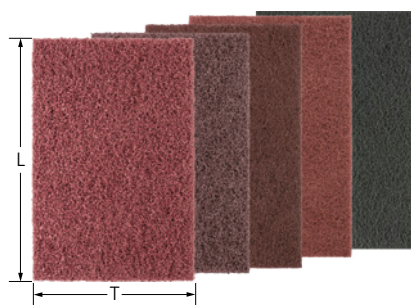
- High abrasive performance through very good grain adhesion.
- The non-stick coating (AC) prevents clogging with low wear.

L [mm]	T [mm]	Abrasive	Grit size		Item no.	Designation
280	230	A	60	1	45017876	POS BP ECO AC 230X280 A 60 (5)
				50	45015241	BP ECO AC 230X280 A 60
			80	1	45017877	POS BP ECO AC 230X280 A 80 (5)
				50	45015242	BP ECO AC 230X280 A 80
			100	1	45017878	POS BP ECO AC 230X280 A 100 (5)
				50	45015243	BP ECO AC 230X280 A 100
			120	1	45017879	POS BP ECO AC 230X280 A 120 (5)
				50	45015244	BP ECO AC 230X280 A 120
			150	1	45017880	POS BP ECO AC 230X280 A 150 (5)
				50	45015245	BP ECO AC 230X280 A 150
			180	1	45017881	POS BP ECO AC 230X280 A 180 (5)
				50	45015246	BP ECO AC 230X280 A 180
			220	50	45015247	BP ECO AC 230X280 A 220
				240	1	45017883
			50		45015248	BP ECO AC 230X280 A 240
			320	1	45017884	POS BP ECO AC 230X280 A 320 (5)
				50	45015249	BP ECO AC 230X280 A 320
			400	1	45017885	POS BP ECO AC 230X280 A 400 (5)
				50	45015250	BP ECO AC 230X280 A 400
			600	1	45017886	POS BP ECO AC 230X280 A 600 (5)
50	45015251	BP ECO AC 230X280 A 600				
800	1	45017887	POS BP ECO AC 230X280 A 800 (5)			
	50	45015252	BP ECO AC 230X280 A 800			
1000	1	45017888	POS BP ECO AC 230X280 A1000 (5)			
	50	45015253	BP ECO AC 230X280 A 1000			



# Flexible abrasives

## 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.

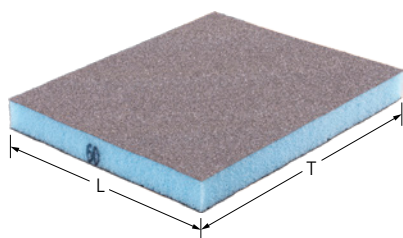


#### Special features:

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

L [mm]	T [mm]	Abrasive	Grit size	Colour		Item no.	Designation
229	150	SiC	180	-	10	47200034	PVSK 150 SIC 180 BLACK AU
		A	100	tan	10	47200032	PVSK 150 A 150 TAN AU
			180	-	10	47200037	PVSK 150 A 180 MAROON AU
			240	green	10	47200036	PVSK 150 A 240 GREEN AU
		SiC	400	grey	10	47200033	PVSK 150 SIC 400 GREY AU
			A	-	white	20	47201630

### Sanding sponges set




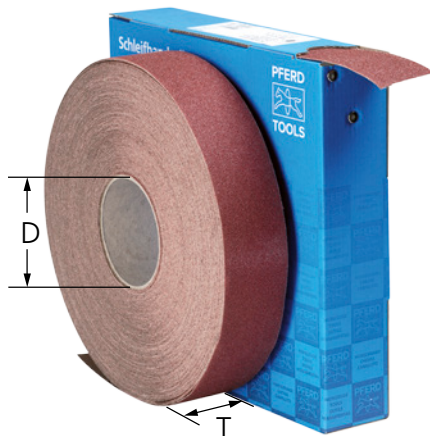
### Aluminium oxide A version

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	5	44697650	ASP 69x98x26 4S A 60
				100	5	44697651	ASP 69x98x26 4S A 100
				180	5	44697652	ASP 69x98x26 4S A 180
98	120	2	A	60	5	44697653	ASP 98x120x13 2S A 60
				100	5	44697654	ASP 98x120x13 2S A 100
				180	5	44697655	ASP 98x120x13 2S A 180




### Cloth, aluminium oxide A type

The cloth-backed variant is suitable for general, heavy-duty use on alloyed and non-alloyed steels, as well as non-ferrous metals. The carton has a tear-off edge for separating the sections of abrasive belt at the workplace.



#### Special features:

- Highly flexible, enabling optimal adjustment to the contour.
- Little wear due to high tear strength and very good grain adhesion.
- Please order matching shop roll holder separately.

T [mm]	Length [m]	D [mm]	Abrasive	Grit size		Item no.	Designation
25	50	75	A	40	1	47300037	SBR-ER 25X50 A 40
				60	1	47300038	SBR-ER 25X50 A 60
				80	1	47300039	SBR-ER 25X50 A 80
				100	1	47300031	SBR-ER 25X50 A100
				120	1	47300032	SBR-ER 25X50 A120
				150	1	47300033	SBR-ER 25X50 A150
				180	1	47300034	SBR-ER 25X50 A180
				240	1	47300035	SBR-ER 25X50 A240
				320	1	47300036	SBR-ER 25X50 A320
40	50	75	A	40	1	47300040	SBR-ER 40X50 A 40
				60	1	47300041	SBR-ER 40X50 A 60
				80	1	47300042	SBR-ER 40X50 A 80
				100	1	47300043	SBR-ER 40X50 A100
				120	1	47300044	SBR-ER 40X50 A120
				150	1	47300045	SBR-ER 40X50 A150
				180	1	47300046	SBR-ER 40X50 A180
				240	1	47300047	SBR-ER 40X50 A240
				320	1	47300048	SBR-ER 40X50 A320
50	50	75	A	40	1	45016204	SBR 50 A 40
						47300049	SBR-ER 50X50 A 40
				60	1	45016206	SBR 50 A 60
						47300050	SBR-ER 50X50 A 60
				80	1	45016208	SBR 50 A 80
						47300051	SBR-ER 50X50 A 80
				100	1	47300052	SBR-ER 50X50 A100
				120	1	45016212	SBR 50 A 120
						47300053	SBR-ER 50X50 A120
				150	1	47300054	SBR-ER 50X50 A150
				180	1	45016218	SBR 50 A 180
						47300055	SBR-ER 50X50 A180
				240	1	45016224	SBR 50 A 240
						47300056	SBR-ER 50X50 A240
				320	1	45016232	SBR 50 A 320
		47300057	SBR-ER 50X50 A320				
400	1	45016240	SBR 50 A 400				
600	1	45016260	SBR 50 A 600				






### 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
115	10	SiC	180	1	47200040	VBR-SC 115 mm x 10 m SiC 180 M
			100	1	47200039	VBR-SC 115 mm x 10 m A 100 G
		A	180	1	47200041	VBR-SC 115 mm x 10 m A 180 M
		SiC	240	1	47200042	VBR-SC 115 mm x 10 m A 240 F
			400	1	47200043	VBR-SC 115 mm x 10 m A 400 VF

### 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 <sub>1</sub> [mm]	Holes	Abrasive	Grit size		Item no.	Designation
125	-	A	60	1	45017902	POS KSS ECO AC 125 0L A 60 (5)
				25	45017808	KSS ECO AC 125 0L A 60
			80	1	45017903	POS KSS ECO AC 125 0L A 80 (5)
				25	45017809	KSS ECO AC 125 0L A 80
			100	1	45017904	POS KSS ECO AC 125 0L A 100 (5)
				25	45017810	KSS ECO AC 125 0L A 100
			120	1	45017905	POS KSS ECO AC 125 0L A 120 (5)
				25	45017811	KSS ECO AC 125 0L A 120
			150	1	45017906	POS KSS ECO AC 125 0L A 150 (5)
				25	45017812	KSS ECO AC 125 0L A 150
			180	1	45017907	POS KSS ECO AC 125 0L A 180 (5)
				25	45017813	KSS ECO AC 125 0L A 180
			240	1	45017909	POS KSS ECO AC 125 0L A 240 (5)
				25	45017815	KSS ECO AC 125 0L A 240
			320	1	45017910	POS KSS ECO AC 125 0L A 320 (5)
				25	45017816	KSS ECO AC 125 0L A 320
			400	1	45017911	POS KSS ECO AC 125 0L A 400 (5)
				25	45017817	KSS ECO AC 125 0L A 400
			600	1	45017912	POS KSS ECO AC 125 0L A 600 (5)
				25	45017819	KSS ECO AC 125 0L A 600
800	1	45017913	POS KSS ECO AC 125 0L A 800 (5)			

Continued on next page

# Flexible abrasives

## Hook and loop-backed abrasive discs KSS




D <sub>1</sub> [mm]	Holes	Abrasive	Grit size		Item no.	Designation
125	-	A	800	25	45017820	KSS ECO AC 125 0L A 800
			1000	1	45017914	POS KSS ECO AC 125 0L A 1000 (5)
				25	45017821	KSS ECO AC 125 0L A 1000
	8	A	60	1	45017889	POS KSS ECO AC 125 8L A 60 (5)
				25	45017822	KSS ECO AC 125 8L A 60
			80	1	45017890	POS KSS ECO AC 125 8L A 80 (5)
				25	45017823	KSS ECO AC 125 8L A 80
			100	1	45017891	POS KSS ECO AC 125 8L A 100 (5)
				25	45017824	KSS ECO AC 125 8L A 100
			120	1	45017892	POS KSS ECO AC 125 8L A 120 (5)
				25	45017825	KSS ECO AC 125 8L A 120
			150	1	45017893	POS KSS ECO AC 125 8L A 150 (5)
				25	45017826	KSS ECO AC 125 8L A 150
			180	1	45017894	POS KSS ECO AC 125 8L A 180 (5)
				25	45017827	KSS ECO AC 125 8L A 180
			240	1	45017896	POS KSS ECO AC 125 8L A 240 (5)
				25	45017829	KSS ECO AC 125 8L A 240
			320	1	45017897	POS KSS ECO AC 125 8L A 320 (5)
				25	45017830	KSS ECO AC 125 8L A 320
			400	1	45017898	POS KSS ECO AC 125 8L A 400 (5)
				25	45017831	KSS ECO AC 125 8L A 400
			600	1	45017899	POS KSS ECO AC 125 8L A 600 (5)
				25	45017832	KSS ECO AC 125 8L A 600
			800	1	45017900	POS KSS ECO AC 125 8L A 800 (5)
				25	45017833	KSS ECO AC 125 8L A 800
			1000	1	45017901	POS KSS ECO AC 125 8L A 1000 (5)
				25	45017834	KSS ECO AC 125 8L A 1000
	150	-	A	60	1	45017928
25					45017835	KSS ECO AC 150 0L A 60
80				1	45017929	POS KSS ECO AC 150 0L A 80 (5)
				25	45017836	KSS ECO AC 150 0L A 80
100				1	45017930	POS KSS ECO AC 150 0L A 100 (5)
				25	45017837	KSS ECO AC 150 0L A 100
120				1	45017931	POS KSS ECO AC 150 0L A 120 (5)
				25	45017838	KSS ECO AC 150 0L A 120
150				1	45017932	POS KSS ECO AC 150 0L A 150 (5)
				25	45017839	KSS ECO AC 150 0L A 150
180				1	45017933	POS KSS ECO AC 150 0L A 180 (5)
				25	45017840	KSS ECO AC 150 0L A 180
240				1	45017935	POS KSS ECO AC 150 0L A 240 (5)
				25	45017842	KSS ECO AC 150 0L A 240
320				1	45017936	POS KSS ECO AC 150 0L A 320 (5)
				25	45017843	KSS ECO AC 150 0L A 320
400				1	45017937	POS KSS ECO AC 150 0L A 400 (5)
				25	45017844	KSS ECO AC 150 0L A 400
600				1	45017938	POS KSS ECO AC 150 0L A 600 (5)
				25	45017845	KSS ECO AC 150 0L A 600
800				1	45017939	POS KSS ECO AC 150 0L A 800 (5)
				25	45017846	KSS ECO AC 150 0L A 800
1000				1	45017940	POS KSS ECO AC 150 0L A 1000 (5)
				25	45017847	KSS ECO AC 150 0L A 1000
15		A	60	1	45017915	POS KSS ECO AC 150 15L A 60 (5)
				25	45017848	KSS ECO AC 150 15L A 60
			80	1	45017916	POS KSS ECO AC 150 15L A 80 (5)

Continued on next page



# Flexible abrasives

## Hook and loop-backed abrasive discs KSS

D <sub>1</sub> [mm]	Holes	Abrasive	Grit size		Item no.	Designation
150	15	A	80	25	45017849	KSS ECO AC 150 15L A 80
			100	1	45017917	POS KSS ECO AC 150 15L A 100 (5)
				25	45017850	KSS ECO AC 150 15L A 100
			120	1	45017918	POS KSS ECO AC 150 15L A 120 (5)
				25	45017851	KSS ECO AC 150 15L A 120
			150	1	45017919	POS KSS ECO AC 150 15L A 150 (5)
				25	45017852	KSS ECO AC 150 15L A 150
			180	1	45017920	POS KSS ECO AC 150 15L A 180 (5)
				25	45017853	KSS ECO AC 150 15L A 180
			240	1	45017922	POS KSS ECO AC 150 15L A 240 (5)
				25	45017855	KSS ECO AC 150 15L A 240
			320	1	45017923	POS KSS ECO AC 150 15L A 320 (5)
				25	45017856	KSS ECO AC 150 15L A 320
			400	1	45017924	POS KSS ECO AC 150 15L A 400 (5)
				25	45017857	KSS ECO AC 150 15L A 400
			600	1	45017925	POS KSS ECO AC 150 15L A 600 (5)
				25	45017858	KSS ECO AC 150 15L A 600
			800	1	45017926	POS KSS ECO AC 150 15L A 800 (5)
				25	45017859	KSS ECO AC 150 15L A 800
			1000	1	45017927	POS KSS ECO AC 150 15L A 1000(5)
25	45017860	KSS ECO AC 150 15L A 1000				



## 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.



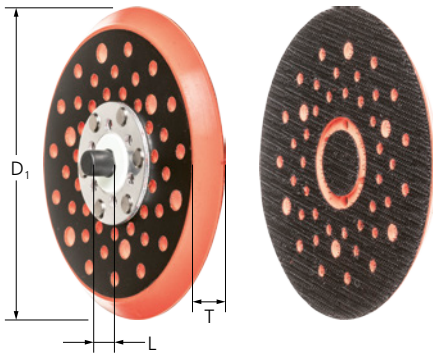
#### Special features:

- 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 <sub>1</sub> [mm]	Abrasive	Grit size		Item no.	Designation
150	A	80	25	45018012	KSS NET 150 A 80
		100	25	45018013	KSS NET 150 A 100
		120	25	45018014	KSS NET 150 A 120
		150	25	45018015	KSS NET 150 A 150
		180	25	45018016	KSS NET 150 A 180
		240	25	45018017	KSS NET 150 A 240
		320	25	45018018	KSS NET 150 A 320
		400	25	45018019	KSS NET 150 A 400
		600	25	45018020	KSS NET 150 A 600
		800	25	45018021	KSS NET 150 A 800
		1000	25	45018022	KSS NET 150 A 1000

# Flexible abrasives

## Hook and loop-backed abrasive disc holder




### Hook and loop-backed abrasive disc holder

The holder is suitable for general use with various different eccentric orbital sanders with 5/16" thread. When used with NET hook and loop-backed abrasive discs, this backing pad has particular advantages.

#### Special features:

- Clean, low-dust working environment. Suitable for general use due to multiple holes.
- Compatible with a lot of eccentric orbital sanders and hook and loop discs.
- Extremely strong, durable hook and loop system.

D <sub>1</sub> [mm]	T [mm]	L [mm]	Thread	Suitable for hook and loop-backed abrasive disc diameter [mm]		Item no.	Designation
125	10	9	5/16-24 UNF	125	1	47600055	KSS-H 125-5/16 8L AU
150	10	9	5/16-24 UNF	150	1	45017779	KSS-H 150-5/16



### 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!



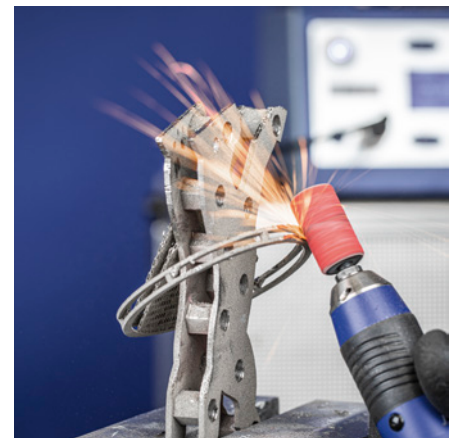
Wear gloves!



Wear a dust mask!

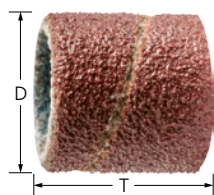


Follow the safety instructions!



# 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
<b>Cylindrical shape</b>							
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	10	A	80	30,000 – 44,000	25	42233108	KSB 1310 A 80
			150	30,000 – 44,000	25	42233115	KSB 1310 A 150
	25	A	80	30,000 – 44,000	25	42234108	KSB 1325 A 80
			150	30,000 – 44,000	25	42234115	KSB 1325 A 150
15	10	A	60	26,000 – 36,000	25	42235105	KSB 1510 A 60
			80	26,000 – 36,000	25	42235108	KSB 1510 A 80
			150	26,000 – 36,000	25	42235115	KSB 1510 A 150
	30	A	50	26,000 – 36,000	25	42236103	KSB 1530 A 50
			60	26,000 – 36,000	25	42236105	KSB 1530 A 60
			80	26,000 – 36,000	25	42236108	KSB 1530 A 80
			150	26,000 – 36,000	25	42236115	KSB 1530 A 150
			240	26,000 – 36,000	25	42236124	KSB 1530 A 240
19	25	A	60	20,000 – 30,000	25	42236505	KSB 1925 A 60
			80	20,000 – 30,000	25	42236508	KSB 1925 A 80
			150	20,000 – 30,000	25	42236515	KSB 1925 A 150
			240	20,000 – 30,000	25	42236524	KSB 1925 A 240
22	20	A	50	18,000 – 26,000	25	42237104	KSB 2220 A 50
			60	18,000 – 26,000	25	42237105	KSB 2220 A 60
			80	18,000 – 26,000	25	42237108	KSB 2220 A 80
			150	18,000 – 26,000	25	42237115	KSB 2220 A 150
25	25	A	40	16,000 – 22,900	1	49900040	POS KSB2525 A40 (10)
					25	47502501	KSB 2525 A 40
			60	16,000 – 22,900	1	49900041	POS KSB2525 A60 (10)
					25	42237505	KSB 2525 A 60
			80	16,000 – 22,900	1	49900042	POS KSB2525 A80 (10)
					25	42237508	KSB 2525 A 80
			150	16,000 – 22,900	25	42237515	KSB 2525 A 150
30	20	A	40	13,000 – 19,100	25	42238104	KSB 3020 A 40
			60	13,000 – 19,100	25	42238105	KSB 3020 A 60
			80	13,000 – 19,100	25	42238108	KSB 3020 A 80
			150	13,000 – 19,100	25	42238115	KSB 3020 A 150
	30	A	40	13,000 – 19,100	25	42239104	KSB 3030 A 40
			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


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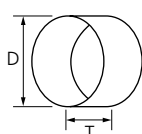


# Abrasive spiral bands

## Small pack KSB



D [mm]	T [mm]	Abrasive	Grit size	Opt. RPM		Item no.	Designation
38	25	A	40	10,000 – 15,900	1	49900046	POS KSB3825 A40 (10)
					25	42239504	KSB 3825 A 40
			60	10,000 – 15,900	1	49900047	POS KSB3825 A60 (10)
					25	42239505	KSB 3825 A 60
			80	10,000 – 15,900	1	49900048	POS KSB3825 A80 (10)
					25	42239508	KSB 3825 A 80
			150	10,000 – 15,900	25	42239515	KSB 3825 A 150
					45	30	A
50	8,500 – 12,700	10	42240103	KSB 4530 A 50			
60	8,500 – 12,700	10	42240105	KSB 4530 A 60			
80	8,500 – 12,700	10	42240108	KSB 4530 A 80			
150	8,500 – 12,700	10	42240115	KSB 4530 A 150			
51	25	A	40	7,500 – 11,200	10	42240504	KSB 5125 A 40
			60	7,500 – 11,200	10	42240505	KSB 5125 A 60
			80	7,500 – 11,200	10	42240508	KSB 5125 A 80
			150	7,500 – 11,200	10	42240515	KSB 5125 A 150
60	30	A	40	6,500 – 9,500	10	42241104	KSB 6030 A 40
			60	6,500 – 9,500	10	42241105	KSB 6030 A 60
			80	6,500 – 9,500	10	42241108	KSB 6030 A 80
			150	6,500 – 9,500	10	42241115	KSB 6030 A 150
75	30	A	40	5,000 – 7,600	10	42242104	KSB 7530 A 40
			60	5,000 – 7,600	10	42242105	KSB 7530 A 60
			80	5,000 – 7,600	10	42242108	KSB 7530 A 80
			150	5,000 – 7,600	10	42242115	KSB 7530 A 150




### 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.

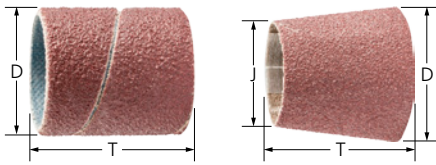
#### Special features:

- The 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
25	25	CO-COOL	36	16,000 – 22,900	1	49900043	POS KSB2525 CO-COOL36 (10)
			60	16,000 – 22,900	1	49900044	POS KSB2525 CO-COOL60 (10)
			80	16,000 – 22,900	1	49900045	POS KSB2525 CO-COOL80 (10)

# Abrasive spiral bands

## Bulk pack GSB




### Aluminium oxide A version

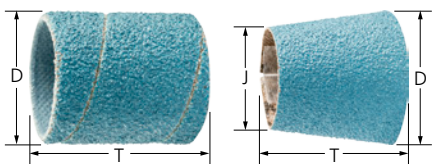
For general applications from coarse to fine grinding. The packaging size is ideally suited to industrial requirements.



#### Special features:

- The abrasive spiral band is firmly held in place on the rubber drum holder as the holder expands during use. The rubber drum holder must be ordered separately.
- Outstanding tool life due to special manufacturing process – even under the most demanding operating conditions.
- Maximum economic efficiency thanks to particularly high stock removal rate and aggressive abrasive quality.

D [mm]	T [mm]	Abrasive	Grit size	Opt. RPM		Item no.	Designation
<b>Cylindrical shape</b>							
4	10	A	150	30,000 – 55,000	100	42200415	GSB 0410 A 150
6	10	A	150	30,000 – 55,000	100	42200615	GSB 0610 A 150
8	10	A	150	30,000 – 55,000	100	42200815	GSB 0810 A 150




### Zirconia alumina Z version

For coarse grinding work with a high stock removal rate and a long tool life. The packaging size is ideally suited to industrial requirements.



#### Special features:

- The abrasive spiral band is firmly held in place on the rubber drum holder as the holder expands during use. The rubber drum holder must be ordered separately.
- Outstanding tool life due to special manufacturing process – even under the most demanding operating conditions.
- Maximum economic efficiency thanks to particularly high stock removal rate and aggressive abrasive quality.

D [mm]	T [mm]	Abrasive	Grit size	Opt. RPM		Item no.	Designation
<b>Cylindrical shape</b>							
13	25	Z	60	30,000 – 44,000	100	42217064	GSB 1325 Z 60
			80	30,000 – 44,000	100	42217065	GSB 1325 Z 80
19	25	Z	40	20,000 – 30,000	100	42217092	GSB 1925 Z 40
			60	20,000 – 30,000	100	42217094	GSB 1925 Z 60
			80	20,000 – 30,000	100	42217095	GSB 1925 Z 80
25	25	Z	40	16,000 – 22,900	100	42217112	GSB 2525 Z 40
			60	16,000 – 22,900	100	42217114	GSB 2525 Z 60
			80	16,000 – 22,900	100	42217115	GSB 2525 Z 80
30	30	Z	40	13,000 – 19,100	100	42217132	GSB 3030 Z 40
			50	13,000 – 19,100	100	42217133	GSB 3030 Z 50
			60	13,000 – 19,100	100	42217134	GSB 3030 Z 60
			80	13,000 – 19,100	100	42217135	GSB 3030 Z 80
38	25	Z	40	10,000 – 15,900	100	42217142	GSB 3825 Z 40
			60	10,000 – 15,900	100	42217144	GSB 3825 Z 60
45	30	Z	40	8,500 – 12,700	100	42217152	GSB 4530 Z 40
			60	8,500 – 12,700	100	42217154	GSB 4530 Z 60
			80	8,500 – 12,700	100	42217155	GSB 4530 Z 80
51	25	Z	40	7,500 – 11,200	100	42217162	GSB 5125 Z 40

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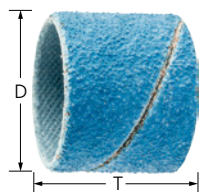


# Abrasive spiral bands

Bulk pack GSB



D [mm]	T [mm]	Abrasive	Grit size	Opt. RPM		Item no.	Designation
51	25	Z	60	7,500 – 11,200	100	42217164	GSB 5125 Z 60
			80	7,500 – 11,200	100	42217165	GSB 5125 Z 80



## Z-COOL / A-COOL zirconia alumina version

For coarse grinding work with a high stock removal rate and cool grinding. Active grinding additives in the coating substantially improve the stock removal rate, prevent clogging and result in cooler grinding. The packaging size is ideally suited to industrial requirements.



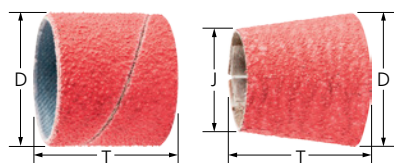
### Special features:

- The abrasive spiral band is firmly held in place on the rubber drum holder as the holder expands during use. The rubber drum holder must be ordered separately.
- Outstanding tool life due to special manufacturing process – even under the most demanding operating conditions.
- Maximum economic efficiency thanks to particularly high stock removal rate and aggressive abrasive quality.

D [mm]	T [mm]	Abrasive	Grit size	Opt. RPM		Item no.	Designation
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### Cylindrical shape

15	30	Z-COOL	50	26,000 – 36,000	100	42206183	GSB 1530 Z-COOL 50
			80	26,000 – 36,000	100	42206188	GSB 1530 Z-COOL 80
		Z-COOL / A-COOL	150	26,000 – 36,000	100	42206285	GSB 1530 A-COOL 150
30	30	Z-COOL	80	13,000 – 19,100	100	42209188	GSB 3030 Z-COOL 80
45	30	Z-COOL	36	8,500 – 12,700	100	42210182	GSB 4530 Z-COOL 36
		Z-COOL / A-COOL	150	8,500 – 12,700	100	42210285	GSB 4530 A-COOL 150



## 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
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### Cylindrical shape

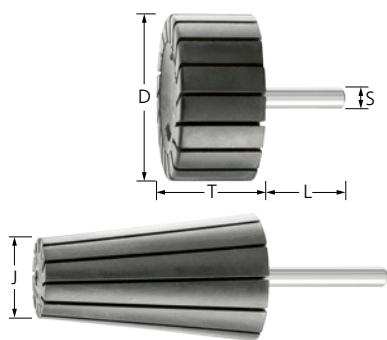
10	20	CO-COOL	60	30,000 – 44,000	100	47501467	GSB 1020 CO-COOL 60
			80	30,000 – 44,000	100	47501485	GSB 1020 CO-COOL 80
			120	30,000 – 44,000	100	47501492	GSB 1020 CO-COOL120
13	25	CO-COOL	60	30,000 – 44,000	100	42204205	GSB 1325 CO-COOL 60
15	30	CO-COOL	60	26,000 – 36,000	100	42206305	GSB 1530 CO-COOL 60
			80	26,000 – 36,000	100	42206308	GSB 1530 CO-COOL 80

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D [mm]	T [mm]	Abrasive	Grit size	Opt. RPM		Item no.	Designation
15	30	CO-COOL	120	26,000 – 36,000	100	42206312	GSB 1530 CO-COOL 120
19	25	CO-COOL	36	20,000 – 30,000	100	42206702	GSB 1925 CO-COOL 36
			60	20,000 – 30,000	100	42206705	GSB 1925 CO-COOL 60
			80	20,000 – 30,000	100	42206708	GSB 1925 CO-COOL 80
22	20	CO-COOL	60	18,000 – 26,000	100	42207305	GSB 2220 CO-COOL 60
			80	18,000 – 26,000	100	42207308	GSB 2220 CO-COOL 80
			120	18,000 – 26,000	100	42207312	GSB 2220 CO-COOL 120
25	25	CO-COOL	36	16,000 – 22,900	100	42207702	GSB 2525 CO-COOL 36
			60	16,000 – 22,900	100	42207705	GSB 2525 CO-COOL 60
			80	16,000 – 22,900	100	42207708	GSB 2525 CO-COOL 80
			120	16,000 – 22,900	100	42207712	GSB 2525 CO-COOL 120
30	30	CO-COOL	36	13,000 – 19,100	100	42209302	GSB 3030 CO-COOL 36
			60	13,000 – 19,100	100	42209305	GSB 3030 CO-COOL 60
			80	13,000 – 19,100	100	42209308	GSB 3030 CO-COOL 80
			120	13,000 – 19,100	100	42209312	GSB 3030 CO-COOL 120
45	30	CO-COOL	36	8,500 – 12,700	100	42210302	GSB 4530 CO-COOL 36
			60	8,500 – 12,700	100	42210305	GSB 4530 CO-COOL 60
			80	8,500 – 12,700	100	42210308	GSB 4530 CO-COOL 80
60	30	CO-COOL	36	6,500 – 9,500	100	42211302	GSB 6030 CO-COOL 36
			60	6,500 – 9,500	100	42211305	GSB 6030 CO-COOL 60
			80	6,500 – 9,500	100	42211308	GSB 6030 CO-COOL 80
			120	6,500 – 9,500	100	42211312	GSB 6030 CO-COOL 120



## 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
<b>Cylindrical shape</b>										
4	10	3	40	65–70	-	55,000	30,000	1	42100413	GK 0410/3
		6	40	65–70	-	55,000	30,000	1	42100410	GK 0410/6
6	10	3	40	65–70	-	55,000	30,000	1	42100613	GK 0610/3
		6	40	65–70	-	55,000	30,000	1	42100610	GK 0610/6
8	10	3	40	65–70	-	55,000	30,000	1	42100813	GK 0810/3
		6	40	65–70	-	55,000	30,000	1	42100810	GK 0810/6
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	10	6	35	65–70	-	44,000	30,000	1	42103000	GK 1310/6
	25	6	35	65–70	-	44,000	30,000	1	42104000	GK 1325/6
15	10	6	35	65–70	ISO 15637-1	36,000	26,000	1	42105000	GK 1510/6
	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

Continued on next page

# 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
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	49900049	POS GK2525/6
									42107500	GK 2525/6
30	20	6	35	65-70	ISO 15637-1	19,100	13,000	1	42108000	GK 3020/6
	30	6	35	65-70	ISO 15637-1	19,100	13,000	1	42109000	GK 3030/6
38	25	6	35	65-70	-	15,900	10,000	1	49900050	POS GK3825/6
									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
100	40	8	35	65-70	ISO 15637-1	5,700	4,000	1	42113000	GK 10040/8



### Safety notes

- The maximum permitted peripheral speed is 11 m/s.
- For safety reasons, the maximum permitted rotational speed indicated must never be exceeded.



Wear eye protection!



Wear hearing protection!



Wear gloves!



Wear a dust mask!



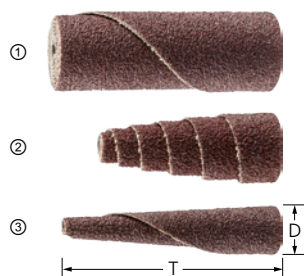
Follow the safety instructions!



Not permitted for wet grinding!



## POLIROLL cartridge rolls PR and PRK, POLICO abrasive cones PCO




### Aluminium oxide A version

Cartridge rolls and abrasive cones consisting of spirally wound, coated abrasives. For general grinding work in hard-to-reach areas on metals and other materials.



#### Special features:

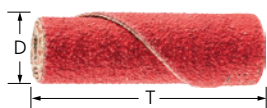
- Consistently high grinding performance throughout its entire tool life thanks to ongoing exposure of fresh abrasive grain during application.
- POLIROLL/POLICO is securely fitted when in use due to self-tensioning provided by grooved, conical arbor, plus easy tool changes.
- Please order compatible arbor separately.

D [mm]	T [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM	Suitable arbors		Item no.	Designation
<b>① Cylindrical shape (PR)</b>									
6	25	A	80	20,000	25,000	BO 3-18-3, BO 6-18-3	50	42810608	PR 0625 A 80
			150	20,000	25,000	BO 3-18-3, BO 6-18-3	50	42810615	PR 0625 A 150
	35	A	80	20,000	25,000	BO 6-24-3	50	42810708	PR 0635 A 80
			150	20,000	25,000	BO 6-24-3	50	42810715	PR 0635 A 150
9	35	A	80	15,000	23,000	BO 6-24-3	50	42810908	PR 0935 A 80
			150	15,000	23,000	BO 6-24-3	50	42810915	PR 0935 A 150
12	35	A	50	12,000	17,000	BO 6-24-3	50	42811305	PR 1235 A 50
			80	12,000	17,000	BO 6-24-3	50	42811308	PR 1235 A 80
			150	12,000	17,000	BO 6-24-3	50	42811315	PR 1235 A 150



# 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
<b>Cylindrical shape (PR)</b>									
6	35	CO-COOL	60	20,000	25,000	BO 6-24-3	50	42810746	PR 0635 CO-COOL 60
			80	20,000	25,000	BO 6-24-3	50	42810748	PR 0635 CO-COOL 80
			120	20,000	25,000	BO 6-24-3	50	42810750	PR 0635 CO-COOL 120
9	35	CO-COOL	60	15,000	23,000	BO 6-24-3	50	42810946	PR 0935 CO-COOL 60
			80	15,000	23,000	BO 6-24-3	50	42810948	PR 0935 CO-COOL 80
			120	15,000	23,000	BO 6-24-3	50	42810950	PR 0935 CO-COOL 120
12	35	CO-COOL	60	12,000	17,000	BO 6-24-3	50	42811346	PR 1235 CO-COOL 60
			80	12,000	17,000	BO 6-24-3	50	42811348	PR 1235 CO-COOL 80
			120	12,000	17,000	BO 6-24-3	50	42811350	PR 1235 CO-COOL 120

## Arbor 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	3	27	1	42703183	BO 3-18-3
	6	30	1	42706183	BO 6-18-3
PR 0625, PR 0925, PR 1235	6	30	1	42706243	BO 6-24-3

# POLIROLL, POLICO

Arbor and set



## POLIROLL set

Coordinated set of various popular POLIROLL cartridge rolls with matching arbors.

### Contents:

150 POLIROLL cartridge rolls with matching arbor, 20 pieces each of cylindrical POLIROLL cartridge rolls measuring 6 x 25 mm (in grit size 80 as well as 150), 20 pieces each of 9 x 25 mm (in grit size 80 as well as 150), 20 pieces each of 12 x 25 mm (in grit size 80 as well as 150), 10 pieces each of conical cartridge rolls measuring 10 x 25 mm (grit size 80 as well as 150) and 10 pieces each of 12 x 25 mm (grit size 80).

### Special features:

- Consistently high grinding performance throughout its entire tool life thanks to ongoing exposure of fresh abrasive grain during application.
- POLIROLL/POLICO is securely fitted when in use due to self-tensioning provided by grooved, conical arbor, plus easy tool changes.

Length [mm]	Width [mm]	Height [mm]		Item no.	Designation
180	145	40	1	49500151	PRS 151



The quick way to find the perfect tool

			Abrasive ▶		
Material group ▼			Aluminium oxide A	Ceramic oxide grain CO-COOL	Silicon carbide SiC-COOL
Steel, cast steel	Non-hardened, non-heat-treated steels	Construction steels, carbon steels, tool steels, non-alloyed steels, cast steel	●	○	
	Hardened, heat-treated steels	Tool steels, tempering steels, alloyed steels, cast steel	○	●	
Stainless steel (INOX)	Rust and acid-resistant steels	Austenitic and ferritic stainless steels		●	
Non-ferrous metals	Soft non-ferrous metals, non-ferrous metals	Soft aluminium alloys	○	○	●
		Brass, copper, zinc	●		
	Hard non-ferrous metals	Hard aluminium alloys	○		●
		Bronze, titanium		○	●
	Hochwarmfeste Werkstoffe	Nickel-based and cobalt-based alloys		●	
Cast iron	Grey cast iron, white cast iron	Cast iron with flake graphite EN-GJL (GG), with nodular graphite/nodular cast iron EN-GJS (GGG), white annealed cast iron EN-GJMW (GTW), black annealed cast iron EN-GJMB (GTS)	●	○	
Plastics, other materials		Fibre-reinforced plastics, thermoplastics, wood, chipboard, paint	○		●

● = highly suitable ○ = suitable

Colour code

POLICAP abrasive caps are available in different types and with different grains.

- Silicon carbide (SiC-COOL) grey
- Ceramic oxide grain (CO-COOL) red
- Colour code for the grit sizes for aluminium oxide A:
  - 60/80 brown
  - 150 black
  - 280 red-brown



Safety notes

- The maximum permitted peripheral speed is 25 m/s.
- For safety reasons, the maximum permitted rotational speed indicated must never be exceeded.



Wear eye protection!



Wear hearing protection!



Wear gloves!



Wear a dust mask!



Follow the safety instructions!



# POLICAP

## POLICAP (PC), shape ZYA




### Abrasive caps PC ZYA

POLICAP abrasive caps in cylindrical shape ZYA with aluminium oxide A as the abrasive. They have a seamless design and the entire tool surface can be used.

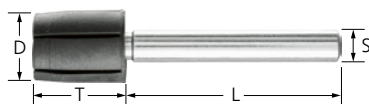


#### Special features:

- The abrasive caps are firmly held in place on the holder as the holder expands during use, plus easy tool changes.
- Good dimensional stability and excellent fine grinding thanks to special manufacturing process.
- Optimally matched, reusable holders are available. The holder must be ordered separately.

D [mm]	T [mm]	Abrasive	Grit size	Opt. RPM		Item no.	Designation
5	10	A	80	40,000	50	42301051	PC ZYA 0510 A 80
			150	40,000	50	42301052	PC ZYA 0510 A 150
			280	40,000	50	42301053	PC ZYA 0510 A 280
7	12	A	60	30,000	50	42301071	PC ZYA 0712 A 60
			150	30,000	50	42301072	PC ZYA 0712 A 150
			280	30,000	50	42301073	PC ZYA 0712 A 280
10	15	A	60	20,000	50	42301101	PC ZYA 1015 A 60
			150	20,000	50	42301102	PC ZYA 1015 A 150
			280	20,000	50	42301103	PC ZYA 1015 A 280
13	17	A	60	16,000	50	42301131	PC ZYA 1317 A 60
			150	16,000	50	42301132	PC ZYA 1317 A 150
			280	16,000	50	42301133	PC ZYA 1317 A 280
16	26	A	60	12,000	50	42301161	PC ZYA 1626 A 60
			150	12,000	50	42301162	PC ZYA 1626 A 150
			280	12,000	50	42301163	PC ZYA 1626 A 280

## POLICAP abrasive cap holder (PCT), shape ZYA




### Abrasive cap holders PCT ZYA

Matching POLICAP abrasive cap holder in cylindrical shape ZYA.

#### Special features:

- The abrasive caps are firmly held in place on the holder as the holder expands during use.

- Easy tool change.

D [mm]	T [mm]	S [mm]	L [mm]	Max. RPM		Item no.	Designation
5	10	3	25	95,000	1	42150000	PCT ZYA 0510 A/3
7	12	3	25	65,000	1	42150005	PCT ZYA 0712 A/3
10	15	3	25	45,000	1	42150010	PCT ZYA 1015 A/3
13	17	6	40	35,000	1	42151015	PCT ZYA 1317 A/6
16	26	6	40	30,000	1	42151020	PCT ZYA 1626 A/6

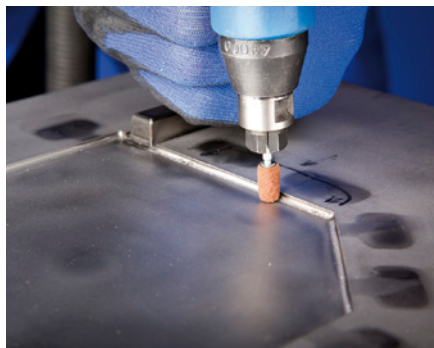
# POLICAP

## POLICAP set (PCS), shape ZYA



### Set PCS ZYA

Set of various POLICAP abrasive caps with matching holder in cylindrical shape ZYA in sturdy, reusable packaging.



10 x 15 mm, 13 x 17 mm and 16 x 26 mm (grit sizes 60, 150, 280), ten pieces each of 5 x 10 mm and 7 x 12 mm (grit sizes 60 / 80 and 150, 280) and one each of the following POLICAP abrasive cap holders in cylindrical shape: 5 x 10 mm, 7 x 12 mm, 10 x 15 mm (each with shank dia. 3 mm), 13 x 17 mm and 16 x 26 mm (each with shank dia. 6 mm).

#### Special features:

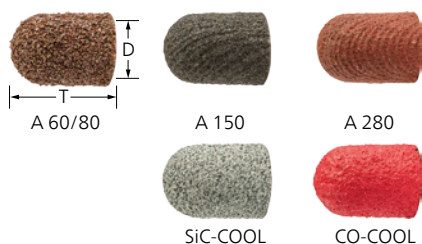
- The abrasive caps are firmly held in place on the holder as the holder expands during use.
- Good dimensional stability and excellent fine grinding thanks to special manufacturing process.
- Easy tool change.

#### Contents:

Five each of the following cylindrical POLICAP abrasive caps in the following dimensions:

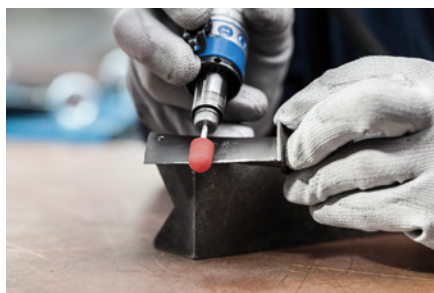
Length [mm]	Width [mm]	Height [mm]		Item no.	Designation
180	145	40	1	49601101	PCS ZYA 110

## 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
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#### Aluminium oxide A

5	11	A	80	40,000	50	42302051	PC WRC 0511 A 80
			150	40,000	50	42302052	PC WRC 0511 A 150
			280	40,000	50	42302053	PC WRC 0511 A 280
7	13	A	60	30,000	50	42302071	PC WRC 0713 A 60
			150	30,000	50	42302072	PC WRC 0713 A 150
			280	30,000	50	42302073	PC WRC 0713 A 280
10	15	A	60	20,000	50	42302101	PC WRC 1015 A 60
			150	20,000	50	42302102	PC WRC 1015 A 150
			280	20,000	50	42302103	PC WRC 1015 A 280
13	17	A	60	16,000	50	42302131	PC WRC 1317 A 60
			150	16,000	50	42302132	PC WRC 1317 A 150
			280	16,000	50	42302133	PC WRC 1317 A 280
16	26	A	60	12,000	50	42302161	PC WRC 1626 A 60

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D [mm]	T [mm]	Abrasive	Grit size	Opt. RPM		Item no.	Designation
16	26	A	150	12,000	50	42302162	PC WRC 1626 A 150
			280	12,000	50	42302163	PC WRC 1626 A 280

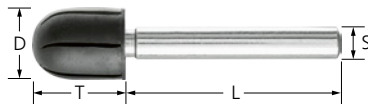
**Silicon carbide SiC-COOL**

5	11	SiC-COOL	80	40,000	50	42302054	PC WRC 0511 SiC-COOL 80
			150	40,000	50	42302055	PC WRC 0511 SiC-COOL 150
7	13	SiC-COOL	80	30,000	50	42302074	PC WRC 0713 SiC-COOL 80
			150	30,000	50	42302075	PC WRC 0713 SiC-COOL 150
10	15	SiC-COOL	80	20,000	50	42302104	PC WRC 1015 SiC-COOL 80
			150	20,000	50	42302105	PC WRC 1015 SiC-COOL 150
13	17	SiC-COOL	80	16,000	50	42302134	PC WRC 1317 SiC-COOL 80
			150	16,000	50	42302135	PC WRC 1317 SiC-COOL 150

**CO-COOL**

5	11	CO-COOL	80	40,000	50	42302056	PC WRC 0511 CO-COOL 80
			120	40,000	50	42302057	PC WRC 0511 CO-COOL 120
7	13	CO-COOL	80	30,000	50	42302076	PC WRC 0713 CO-COOL 80
			120	30,000	50	42302077	PC WRC 0713 CO-COOL 120
10	15	CO-COOL	80	20,000	50	42302106	PC WRC 1015 CO-COOL 80
			120	20,000	50	42302107	PC WRC 1015 CO-COOL 120
13	17	CO-COOL	80	16,000	50	42302136	PC WRC 1317 CO-COOL 80
			120	16,000	50	42302137	PC WRC 1317 CO-COOL 120
16	26	CO-COOL	80	12,000	50	42302166	PC WRC 1626 CO-COOL 80
			120	12,000	50	42302167	PC WRC 1626 CO-COOL 120

**POLICAP abrasive cap holder (PCT), shape WRC**




**Abrasive cap holder PCT WRC**

Matching POLICAP abrasive cap holder in cylindrical shape with radius end WRC.

**Special features:**

- The abrasive caps are firmly held in place on the holder as the holder expands during use.

- Easy tool change.

D [mm]	T [mm]	S [mm]	L [mm]	Max. RPM		Item no.	Designation
5	11	3	25	95,000	1	42150100	PCT WRC 0511/3
7	13	3	25	65,000	1	42150105	PCT WRC 0713/3
10	15	3	25	45,000	1	42150110	PCT WRC 1015/3
13	17	6	40	35,000	1	42151115	PCT WRC 1317/6
16	26	6	40	30,000	1	42151120	PCT WRC 1626/6

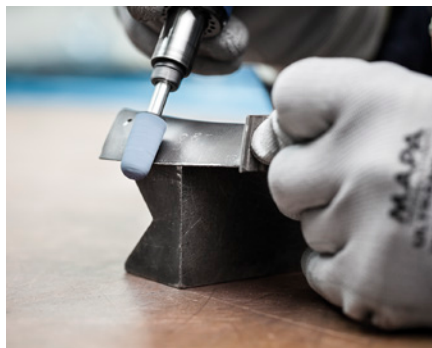
# POLICAP

## POLICAP set (PCS), shape WRC



### Set PCS WRC

Set of various POLICAP abrasive caps with matching holder in cylindrical shape with radius end WRC in sturdy, reusable packaging.



13 x 17 mm and 16 x 26 mm (grit sizes 60, 150, 280), ten pieces each of 5 x 11 mm and 7 x 13 mm (grit sizes 60 / 80 and 150, 280) and one each of the following POLICAP abrasive cap holders in cylindrical shape with radius end: 5 x 11 mm, 7 x 13 mm, 10 x 15 mm (each with shank dia. 3 mm), 13 x 17 mm and 16 x 26 mm (each with shank dia. 6 mm).

#### Special features:

- The abrasive caps are firmly held in place on the holder as the holder expands during use.
- Good dimensional stability and excellent fine grinding thanks to special manufacturing process.
- Easy tool change.

#### Contents:

Five each of the following POLICAP abrasive caps in cylindrical shape with radius end in the following dimensions: 10 x 15 mm,

Length [mm]	Width [mm]	Height [mm]		Item no.	Designation
180	145	40	1	49601103	PCS WRC 110

## POLICAP (PC), shape WKG



### Abrasive caps PC WKG

POLICAP abrasive caps in tapered conical shape with radius end WKG with aluminium oxide A as the abrasive. The taper angle of the cone is 30°. They have a seamless design and the entire tool surface can be used. Optimally matched, reusable holders are available.

#### Special features:

- The abrasive caps are firmly held in place on the holder as the holder expands during use, plus easy tool changes.
- Good dimensional stability and excellent fine grinding thanks to special manufacturing process.
- Optimally matched, reusable holders are available. The holder must be ordered separately.

D [mm]	T [mm]	Abrasive	Grit size	Opt. RPM		Item no.	Designation
5	11	A	80	40,000	50	42303051	PC WKG 0511 A 80
			150	40,000	50	42303052	PC WKG 0511 A 150
			280	40,000	50	42303053	PC WKG 0511 A 280
7	13	A	60	30,000	50	42303071	PC WKG 0713 A 60
			150	30,000	50	42303072	PC WKG 0713 A 150
			280	30,000	50	42303073	PC WKG 0713 A 280
10	15	A	60	20,000	50	42303101	PC WKG 1015 A 60
			150	20,000	50	42303102	PC WKG 1015 A 150
13	17	A	60	16,000	50	42303131	PC WKG 1317 A 60
			280	16,000	50	42303133	PC WKG 1317 A 280
16	26	A	60	12,000	50	42303161	PC WKG 1626 A 60
			150	12,000	50	42303162	PC WKG 1626 A 150

# POLICAP

POLICAP abrasive cap holder (PCT), shape WKG




## Abrasive cap holders PCT WKG

Matching POLICAP abrasive cap holder in tapered conical shape with radius end WKG.

### Special features:

- The abrasive caps are firmly held in place on the holder as the holder expands during use.
- Easy tool change.

D [mm]	T [mm]	S [mm]	L [mm]	Max. RPM		Item no.	Designation
5	11	3	25	95,000	1	42150200	PCT WKG 0511 G/3
7	13	3	25	65,000	1	42150205	PCT WKG 0713 G/3
10	15	3	25	45,000	1	42150210	PCT WKG 1015 G/3
13	17	6	40	35,000	1	42151215	PCT WKG 1317 G/6
16	26	6	40	30,000	1	42151220	PCT WKG 1626 G/6

## POLICAP set (PCS), shape WKG



### Set PCS WKG

Set of various POLICAP abrasive caps with matching holder in tapered conical shape with radius end WKG in sturdy, reusable packaging.

### Contents:

Five each of the following POLICAP abrasive caps in tapered conical shape with radius end in the following dimensions: 10 x 15 mm, 13 x 17 mm and 16 x 26 mm (grit sizes 60, 150, 280), ten pieces each of 5 x 11 mm and 7 x 13 mm (grit sizes 60 / 80 and 150, 280) and one each of the following POLICAP abrasive cap holders in tapered conical shape with radius end: 5 x 11 mm, 7 x 13 mm, 10 x 15 mm (each with shank dia. 3 mm),

13 x 17 mm and 16 x 26 mm (each with shank dia. 6 mm).

### Special features:

- The abrasive caps are firmly held in place on the holder as the holder expands during use.
- Good dimensional stability and excellent fine grinding thanks to special manufacturing process.
- Easy tool change.

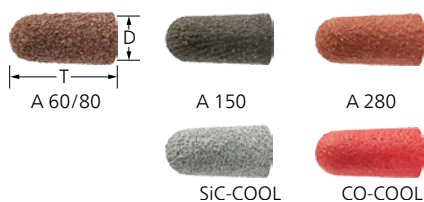
Length [mm]	Width [mm]	Height [mm]		Item no.	Designation
180	145	40	1	49601107	PCS WKG 110

4



# POLICAP

## 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.

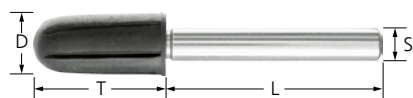


#### Special features:

- 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
<b>Aluminium oxide A</b>							
5	15	A	80	40,000	50	42306051	PC KEL 0515 A 80
			150	40,000	50	42306052	PC KEL 0515 A 150
11	25	A	60	20,000	50	42306111	PC KEL 1125 A 60
			150	20,000	50	42306112	PC KEL 1125 A 150
			280	20,000	50	42306113	PC KEL 1125 A 280
16	32	A	60	12,000	50	42306161	PC KEL 1632 A 60
			150	12,000	50	42306162	PC KEL 1632 A 150
			280	12,000	50	42306163	PC KEL 1632 A 280
21	40	A	60	9,500	50	42306211	PC KEL 2140 A 60
			150	9,500	50	42306212	PC KEL 2140 A 150
<b>CO-COOL</b>							
5	15	CO-COOL	80	40,000	50	42306056	PC KEL 0515 CO-COOL 80
			120	40,000	50	42306057	PC KEL 0515 CO-COOL 120

## 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	1	42151400	PCT KEL 0515/6
11	25	6	40	40,000	1	42151410	PCT KEL 1125/6
16	32	6	40	30,000	1	42151420	PCT KEL 1632/6
21	40	6	40	20,000	1	42151430	PCT KEL 2140/6



**SET PCS 650**

Set of various POLICAP abrasive caps with matching holder in sturdy, reusable packaging.



shape 5 x 10 mm, 7 x 12 mm and in tapered conical shape with radius end 5 x 11 mm and 7 x 13 mm (grit sizes 150 and 280), one each of the following POLICAP abrasive cap holders in cylindrical shape: 5 x 10 mm, 7 x 12 mm, 10 x 15 mm (each with shank dia. 3 mm), 13 x 17 mm and 16 x 26 mm (each with shank dia. 6 mm) and in tapered conical shape with radius end: 5 x 11 mm, 7 x 13 mm, 10 x 15 mm (each with shank dia. 3 mm), 13 x 17 mm and 16 x 26 mm (each with shank dia. 6 mm).

**Contents:**

Ten each of POLICAP abrasive caps in cylindrical shape in 16 x 26 mm and in tapered conical shape with radius end in 16 x 26 mm (grit sizes 150 and 280), 25 pieces each in cylindrical shape PC ZYA 10 x 15 mm, 13 x 17 mm and in tapered conical shape with radius end 10 x 15 mm and 13 x 17 mm (grit sizes 150 and 280), 50 pieces each in cylindrical

**Special features:**

- The abrasive caps are firmly held in place on the holder as the holder expands during use.
- Good dimensional stability and excellent fine grinding thanks to special manufacturing process.
- Easy tool change.

Length [mm]	Width [mm]	Height [mm]		Item no.	Designation
332	235	50	1	49606500	SET PCS 650



### 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!

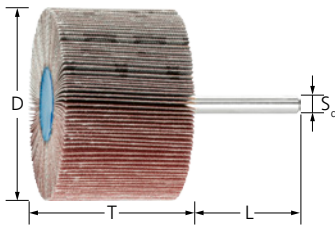


Follow the safety instructions!



# 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	10	44400002	F 1010/3 A 60	
					80	38,000	75,000	10	44400003	F 1010/3 A 80	
					120	38,000	75,000	10	44400004	F 1010/3 A 120	
					150	38,000	75,000	10	44400005	F 1010/3 A 150	
					180	38,000	75,000	10	44400006	F 1010/3 A 180	
					320	38,000	75,000	10	44400008	F 1010/3 A 320	
			15	A	60	38,000	75,000	10	44400012	F 1015/3 A 60	
					80	38,000	75,000	10	44400013	F 1015/3 A 80	
					120	38,000	75,000	10	44400014	F 1015/3 A 120	
					150	38,000	75,000	10	44400015	F 1015/3 A 150	
					180	38,000	75,000	10	44400016	F 1015/3 A 180	
					320	38,000	75,000	10	44400018	F 1015/3 A 320	
		15	5	A	60	25,000	50,000	10	44400022	F 1505/3 A 60	
					80	25,000	50,000	10	44400023	F 1505/3 A 80	
					120	25,000	50,000	10	44400024	F 1505/3 A 120	
					150	25,000	50,000	10	44400025	F 1505/3 A 150	
					180	25,000	50,000	10	44400026	F 1505/3 A 180	
					320	25,000	50,000	10	44400028	F 1505/3 A 320	
				10	A	60	25,000	50,000	10	44400032	F 1510/3 A 60
						80	25,000	50,000	10	44400033	F 1510/3 A 80
						120	25,000	50,000	10	44400034	F 1510/3 A 120
						180	25,000	50,000	10	44400036	F 1510/3 A 180
						320	25,000	50,000	10	44400038	F 1510/3 A 320
						60	25,000	50,000	10	44400042	F 1515/3 A 60
			15	A	80	25,000	50,000	10	44400043	F 1515/3 A 80	
					120	25,000	50,000	10	44400044	F 1515/3 A 120	
					150	25,000	50,000	10	44400045	F 1515/3 A 150	
					180	25,000	50,000	10	44400046	F 1515/3 A 180	
					320	25,000	50,000	10	44400048	F 1515/3 A 320	
					120	19,000	38,100	10	44400123	F 2010/3 A 120	
			20	10	A	150	19,000	38,100	10	44400153	F 2010/3 A 150
						180	19,000	38,100	10	44400183	F 2010/3 A 180
						60	12,000	25,400	10	44401063	F 3005/3 A 60
			30	5	A	80	12,000	25,400	10	44401083	F 3005/3 A 80
						120	12,000	25,400	10	44401123	F 3005/3 A 120
						240	12,000	25,400	10	44401243	F 3005/3 A 240
		320				12,000	25,400	10	44401323	F 3005/3 A 320	
		10				A	60	12,000	25,400	10	44402063
			80	12,000	25,400		10	44402083	F 3010/3 A 80		
			120	12,000	25,400		10	44402123	F 3010/3 A 120		
			150	12,000	25,400		10	44402153	F 3010/3 A 150		

Continued on next page

# Flap tools

## Mounted flap wheels F



S <sub>d</sub> [mm]	L [mm]	D [mm]	T [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation	
3	40	30	10	A	180	12,000	25,400	10	44402183	F 3010/3 A 180	
					240	12,000	25,400	10	44402243	F 3010/3 A 240	
					320	12,000	25,400	10	44402323	F 3010/3 A 320	
6	40	20	10	A	80	19,000	38,100	10	44400086	F 2010/6 A 80	
					120	19,000	38,100	10	44400126	F 2010/6 A 120	
					150	19,000	38,100	10	44400156	F 2010/6 A 150	
					180	19,000	38,100	10	44400186	F 2010/6 A 180	
			25	15	A	60	15,000	30,500	10	47801092	F 2515/6 A 60
						80	15,000	30,500	10	44405086	F 2510/6 A 80
						120	15,000	30,500	10	44405126	F 2510/6 A 120
						180	15,000	30,500	10	44405186	F 2510/6 A 180
				15	A	80	15,000	30,500	10	44406086	F 2515/6 A 80
						120	15,000	30,500	10	44406126	F 2515/6 A 120
						150	15,000	30,500	10	44406156	F 2515/6 A 150
						180	15,000	30,500	10	44406186	F 2515/6 A 180
		20		A	80	15,000	30,500	10	44415086	F 2520/6 A 80	
					120	15,000	30,500	10	44415126	F 2520/6 A 120	
					150	15,000	30,500	10	44415186	F 2520/6 A 180	
					180	15,000	30,500	10	44415186	F 2520/6 A 180	
		25	A	60	15,000	30,500	10	47801818	F 2525/6 A 60		
				80	15,000	30,500	10	44410086	F 2525/6 A 80		
				120	15,000	30,500	10	44410126	F 2525/6 A 120		
				150	15,000	30,500	10	44410156	F 2525/6 A 150		
				180	15,000	30,500	10	44410186	F 2525/6 A 180		
				180	15,000	30,500	10	44410186	F 2525/6 A 180		
		30	3	A	80	12,000	25,400	10	44416086	F 3003/6 A 80	
					120	12,000	25,400	10	44416126	F 3003/6 A 120	
					180	12,000	25,400	10	44416186	F 3003/6 A 180	
					240	12,000	25,400	10	44416246	F 3003/6 A 240	
				5	A	60	12,000	25,400	10	44401066	F 3005/6 A 60
						80	12,000	25,400	10	44401086	F 3005/6 A 80
						120	12,000	25,400	10	44401126	F 3005/6 A 120
						150	12,000	25,400	10	44401156	F 3005/6 A 150
						180	12,000	25,400	10	44401186	F 3005/6 A 180
						240	12,000	25,400	10	44401246	F 3005/6 A 240
						320	12,000	25,400	10	44401326	F 3005/6 A 320
						320	12,000	25,400	10	44401326	F 3005/6 A 320
			10	A	60	12,000	25,400	10	44402066	F 3010/6 A 60	
					80	12,000	25,400	10	44402086	F 3010/6 A 80	
					120	12,000	25,400	10	44402126	F 3010/6 A 120	
					150	12,000	25,400	10	44402156	F 3010/6 A 150	
					180	12,000	25,400	10	44402186	F 3010/6 A 180	
					240	12,000	25,400	10	44402246	F 3010/6 A 240	
					320	12,000	25,400	10	44402326	F 3010/6 A 320	
					400	12,000	25,400	10	44402406	F 3010/6 A 400	
			15	A	60	12,000	25,400	10	44409066	F 3015/6 A 60	
					80	12,000	25,400	10	44409086	F 3015/6 A 80	
					120	12,000	25,400	10	44409126	F 3015/6 A 120	
					150	12,000	25,400	10	44409156	F 3015/6 A 150	
		180			12,000	25,400	10	44409186	F 3015/6 A 180		
		240			12,000	25,400	10	44409246	F 3015/6 A 240		
320	12,000	25,400			10	44409326	F 3015/6 A 320				
320	12,000	25,400			10	44409326	F 3015/6 A 320				
1	47800131	POS F 3015/6 A 60									
1	47800132	POS F 3015/6 A 80									
1	47800132	POS F 3015/6 A 80									
1	47800132	POS F 3015/6 A 80									
30	A	60	12,000	25,400	10	44411066	F 3030/6 A 60				
		80	12,000	25,400	10	44411086	F 3030/6 A 80				
		120	12,000	25,400	10	44411126	F 3030/6 A 120				


Continued on next page



# Flap tools

## Mounted flap wheels F



S <sub>d</sub> [mm]	L [mm]	D [mm]	T [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
6	40	30	30	A	150	12,000	25,400	10	44411156	F 3030/6 A 150
					180	12,000	25,400	10	44411186	F 3030/6 A 180
					240	12,000	25,400	10	44411246	F 3030/6 A 240
					320	12,000	25,400	10	44411326	F 3030/6 A 320
		40	10	A	60	9,600	19,100	10	44403066	F 4010/6 A 60
					80	9,600	19,100	10	44403086	F 4010/6 A 80
					120	9,600	19,100	10	44403126	F 4010/6 A 120
					150	9,600	19,100	10	44403156	F 4010/6 A 150
			10	A	180	9,600	19,100	10	44403186	F 4010/6 A 180
					240	9,600	19,100	10	44403246	F 4010/6 A 240
					60	9,600	19,100	10	44404066	F 4015/6 A 60
					80	9,600	19,100	10	44404086	F 4015/6 A 80
	15		A	120	9,600	19,100	10	44404126	F 4015/6 A 120	
				150	9,600	19,100	10	44404156	F 4015/6 A 150	
				180	9,600	19,100	10	44404186	F 4015/6 A 180	
				240	9,600	19,100	10	44404246	F 4015/6 A 240	
	50	20	A	40	9,600	19,100	10	44408046	F 4020/6 A 40	
				60	9,600	19,100	10	44408066	F 4020/6 A 60	
				80	9,600	19,100	1	47800133	POS F 4020/6 A 60	
				120	9,600	19,100	10	44408126	F 4020/6 A 120	
		10	A	150	9,600	19,100	10	44408156	F 4020/6 A 150	
				180	9,600	19,100	10	44408186	F 4020/6 A 180	
				240	9,600	19,100	10	44408246	F 4020/6 A 240	
				1	47800134	POS F 4020/6 A 80				
		5	A	60	7,000	15,200	10	44418066	F 5005/6 A 60	
				80	7,000	15,200	10	44418086	F 5005/6 A 80	
				120	7,000	15,200	10	44418126	F 5005/6 A 120	
				180	7,000	15,200	10	44418186	F 5005/6 A 180	
	10	A	240	7,000	15,200	10	44418246	F 5005/6 A 240		
			60	7,000	15,200	10	44505066	F 5010/6 A 60		
			80	7,000	15,200	10	44505086	F 5010/6 A 80		
			120	7,000	15,200	10	44505126	F 5010/6 A 120		
	15	A	180	7,000	15,200	10	44505186	F 5010/6 A 180		
			240	7,000	15,200	10	44505246	F 5010/6 A 240		
			60	7,000	15,200	10	44506066	F 5015/6 A 60		
			80	7,000	15,200	10	44506086	F 5015/6 A 80		
	20	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		
			180	7,000	15,200	10	44506186	F 5015/6 A 180		
			240	7,000	15,200	10	44506246	F 5015/6 A 240		
	30	A	320	7,000	15,200	10	44506326	F 5015/6 A 320		
			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	150	7,000	15,200	10	44504156	F 5020/6 A 150		
			180	7,000	15,200	10	44504186	F 5020/6 A 180		
			320	7,000	15,200	10	44504326	F 5020/6 A 320		
			40	7,000	15,200	10	44411546	F 5030/6 A 40		
	30	A	60	7,000	15,200	10	44503066	F 5030/6 A 60		
			1	47800135	POS F 5030/6 A 60					
			80	7,000	15,200	10	44503086	F 5030/6 A 80		
	1	47800136	POS F 5030/6 A 80							

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# Flap tools

## Mounted flap wheels F




S <sub>d</sub> [mm]	L [mm]	D [mm]	T [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
6	40	50	30	A	120	7,000	15,200	10	44503126	F 5030/6 A 120
					150	7,000	15,200	10	44503156	F 5030/6 A 150
					180	7,000	15,200	10	44503186	F 5030/6 A 180
					240	7,000	15,200	10	44503246	F 5030/6 A 240
					320	7,000	15,200	10	44503326	F 5030/6 A 320
		60	5	A	60	6,300	12,700	10	44419066	F 6005/6 A 60
					80	6,300	12,700	10	44419086	F 6005/6 A 80
					120	6,300	12,700	10	44419126	F 6005/6 A 120
					150	6,300	12,700	10	44419156	F 6005/6 A 150
					180	6,300	12,700	10	44419186	F 6005/6 A 180
			15	A	60	6,300	12,700	10	44507066	F 6015/6 A 60
					80	6,300	12,700	10	44507086	F 6015/6 A 80
					120	6,300	12,700	10	44507126	F 6015/6 A 120
					150	6,300	12,700	10	44507156	F 6015/6 A 150
					20	6,300	12,700	10	44508066	F 6020/6 A 60
	20		A	60	6,300	12,700	10	44508086	F 6020/6 A 80	
				120	6,300	12,700	10	44508126	F 6020/6 A 120	
				150	6,300	12,700	10	44508156	F 6020/6 A 150	
				240	6,300	12,700	10	44508246	F 6020/6 A 240	
				320	6,300	12,700	10	44508326	F 6020/6 A 320	
	30	A	40	6,300	12,700	10	44509046	F 6030/6 A 40		
			60	6,300	12,700	10	44509066	F 6030/6 A 60		
						1	47800137	POS F 6030/6 A 60		
			80	6,300	12,700	10	44509086	F 6030/6 A 80		
						1	47800138	POS 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		
			320	6,300	12,700	10	44509326	F 6030/6 A 320		
			40	A	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		
	240	6,300			12,700	10	44510246	F 6040/6 A 240		
	50	A	40	6,300	12,700	10	44511046	F 6050/6 A 40		
			60	6,300	12,700	10	44511066	F 6050/6 A 60		
			80	6,300	12,700	10	44511086	F 6050/6 A 80		
			120	6,300	12,700	10	44511126	F 6050/6 A 120		
			150	6,300	12,700	10	44511156	F 6050/6 A 150		
			240	6,300	12,700	10	44511246	F 6050/6 A 240		
			320	6,300	12,700	10	44511326	F 6050/6 A 320		
	80	15	A	60	4,800	9,500	10	44512066	F 8015/6 A 60	
				80	4,800	9,500	10	44512086	F 8015/6 A 80	
				120	4,800	9,500	10	44512126	F 8015/6 A 120	
		20	A	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	40	4,800	9,500	10	44514046	F 8030/6 A 40	
				60	4,800	9,500	10	44514066	F 8030/6 A 60	
				80	4,800	9,500	10	44514086	F 8030/6 A 80	
				120	4,800	9,500	10	44514126	F 8030/6 A 120	
				240	4,800	9,500	10	44514246	F 8030/6 A 240	
				320	4,800	9,500	10	44514326	F 8030/6 A 320	
		40	A	60	4,800	9,500	10	44515066	F 8040/6 A 60	

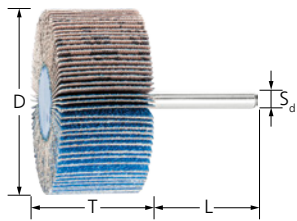
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# Flap tools

## 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	80	40	A	80	4,800	9,500	10	44515086	F 8040/6 A 80
					120	4,800	9,500	10	44515126	F 8040/6 A 120
					150	4,800	9,500	10	44515156	F 8040/6 A 150
			50	A	40	4,800	9,500	10	44516046	F 8050/6 A 40
					60	4,800	9,500	10	44516066	F 8050/6 A 60
					80	4,800	9,500	10	44516086	F 8050/6 A 80
		120			4,800	9,500	10	44516126	F 8050/6 A 120	
		150			4,800	9,500	10	44516156	F 8050/6 A 150	
		240			4,800	9,500	10	44516246	F 8050/6 A 240	
		320			4,800	9,500	10	44516326	F 8050/6 A 320	




### Zirconia alumina Z-COOL version

The flaps made of coated abrasive are arranged radially around the axis in a fan-type structure. For coarse grinding work with a high stock removal rate. Active grinding additives substantially improve the stock removal rate, prevent clogging and result in cooler grinding.

#### Special features:

- Highly flexible, enabling optimal adjustment to the contour.
- Consistently high stock removal rate over the entire tool life as new, aggressive abrasive is constantly exposed.
- Can be used face-down very close to edges and in corners thanks to the flat, moulded-core design.

$S_d$ [mm]	L [mm]	D [mm]	T [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
6	40	30	20	Z-COOL	60	12,000	25,400	10	44412066	F 3020/6 Z-COOL 60
					80	12,000	25,400	10	44412086	F 3020/6 Z-COOL 80
		40	20	Z-COOL	60	9,600	19,100	10	44414066	F 4020/6 Z-COOL 60
					80	9,600	19,100	10	44414086	F 4020/6 Z-COOL 80
		50	20	Z-COOL	60	7,000	15,200	10	44531066	F 5020/6 Z-COOL 60
					80	7,000	15,200	10	44531086	F 5020/6 Z-COOL 80
		60	30	Z-COOL	60	6,300	12,700	10	44533066	F 6030/6 Z-COOL 60
					80	6,300	12,700	10	44533086	F 6030/6 Z-COOL 80

## Mounted flap wheel set



### FSO

Set of different mounted flap wheels in the aluminium oxide A variant with a shank diameter of 6 mm.

#### Contents:

Five each of the following mounted flap wheels with shank dia. 6 mm in the following dimensions: 40 x 15 mm (grit sizes 80 and 120), 50 x 15 mm (grit sizes 60 and 80), 60 x 30 mm (grit size 60), 60 x 40 mm (grit sizes 80 and 150) and 80 x 30 mm (grit size 60).

#### Special features:

- For getting to know and testing the comprehensive range.
- Coordinated selection of the most common versions.
- Promotional display box.

L [mm]	B [mm]	H [mm]		Item no.	Designation
240	145	240	1	44590001	FSO 5400



# Flap tools

## Mounted flap wheel set




### Display for mounted flap wheels

Display stand for mounted flap wheels.

**Special features:**

- Tools are presented in the best possible way at the point of sale.
- Designed for different sizes.
- Can be configured as desired in line with individual requirements.






	<b>Item no.</b>	<b>Designation</b>
1	49900018	FAN GRINDER DISPLAY (EMPTY)

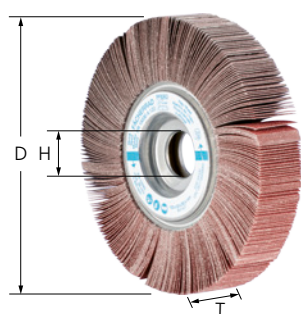
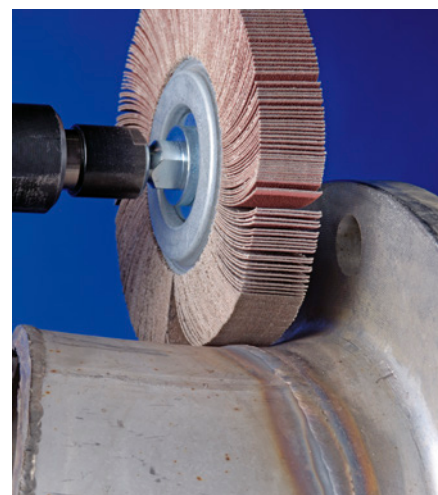
## Unmounted flap wheels FR

4

### Safety notes

- As a rule, unmounted flap wheels should be used with the appropriate clamping flanges.
- The maximum permitted peripheral speed is determined as follows:  
Unmounted flap wheels = 50 m/s  
Unmounted flap wheels for angle grinders = 80 m/s  
Flap drums = 32 m/s.
- The contact pressure must be significantly reduced if the specified optimum rotational speed is exceeded.
- For safety reasons, the maximum permitted rotational speed indicated must never be exceeded.

-  Wear eye protection!
-  Wear hearing protection!
-  Wear gloves!
-  Wear a dust mask!
-  Follow the safety instructions!




### Aluminium oxide A version


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

**Special features:**

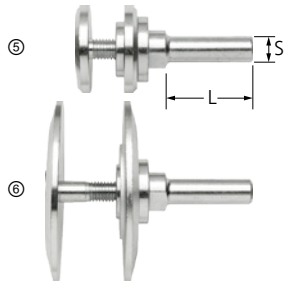
- Highly flexible, enabling optimal adjustment to the contour. Can be used face-down very close to edges and in corners thanks to special clamping system.
- Consistently high stock removal rate over the entire tool life as new, aggressive abrasive is constantly exposed.
- Please order compatible arbor separately.

D [mm]	T [mm]	H [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
100	30	25.4	A	40	5,500	9,500	2	44710041	FR 10030/25,4 A 40
				60	5,500	9,500	2	44710061	FR 10030/25,4 A 60
				80	5,500	9,500	2	44710081	FR 10030/25,4 A 80
				120	5,500	9,500	2	44710121	FR 10030/25,4 A 120
165	30	25.4	A	40	3,200	5,700	2	44732041	FR 16530/25,4 A 40 HD
				60	3,200	5,700	2	44732061	FR 16530/25,4 A 60 HD
				80	3,200	5,700	2	44732081	FR 16530/25,4 A 80 HD
				120	3,200	5,700	2	44732121	FR 16530/25,4 A 120

*Continued on next page*

D [mm]	T [mm]	H [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
165	50	25.4	A	40	3,200	5,700	2	44731041	FR 16550/25.4 A 40 HD
				60	3,200	5,700	2	44731061	FR 16550/25.4 A 60 HD
				80	3,200	5,700	2	44731081	FR 16550/25.4 A 80 HD
				120	3,200	5,700	2	44731121	FR 16550/25.4 A120 HD
				240	3,200	5,700	2	44731241	FR 16550/25,4 A 240
				320	3,200	5,700	2	44731321	FR 16550/25,4 A 320
200	30	44	A	60	2,600	4,700	2	44736061	FR 20030/44,0 A 60
				80	2,600	4,700	2	44736081	FR 20030/44,0 A 80
				120	2,600	4,700	2	44736121	FR 20030/44,0 A 120
	50	44	A	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
250	50	44	A	80	2,100	3,800	1	44742081	FR 25050/44,0 A 80

## Arbor FR/VR




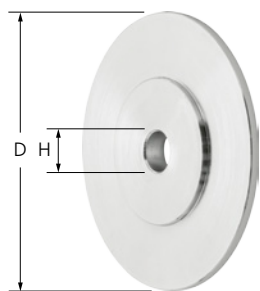
### Version with clamping flange

For mounting PFERD TOOLS unmounted flap wheels. The clamping flanges are designed to lie countersunk in the tool.

#### Special features:

- Can be used face-down very close to edges and in corners thanks to special clamping system.

Image	Suitable for tool diameter [mm]	Suitable for hole diameter [mm]	S [mm]	L [mm]	Clamping range [mm]		Item no.	Designation
⑤	100, 150, 165	25.4	12	40	25 – 50	1	44601225	FR/VR 12/25,4 100-165
⑥	200, 250	44	12	40	25 – 50	1	44601244	FR/VR 12/44,0 200-250




### Reducing flanges for unmounted flap wheels

For mounting unmounted flap wheels and POLINOX grinding wheels on drive spindles. The clamping flanges are designed to lie countersunk in the tool.

#### Special features:

- Can be used face-down very close to edges and in corners thanks to special clamping system.
- Can be adapted to an existing drive spindle by drilling.

Suitable for tool diameter [mm]	D [mm]	H [mm]	Max. H [mm]		Item no.	Designation
150, 165	40	12	22.2	1	44771225	RF FR 150-165 Bo. 12-22,2
200, 250	83	12	40	1	44771244	RF FR 200-250 Bo. 12-40



# Flap tools

## 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.

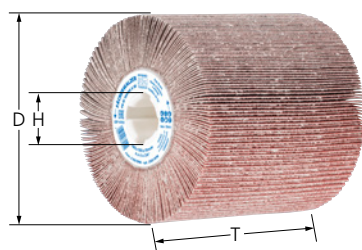
#### Special features:

- 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
125	20	M14	A	40	6,850	12,200	2	44782504	FR WS 12520 M14 A 40
				60	6,850	12,200	2	44782506	FR WS 12520 M14 A 60
				80	6,850	12,200	2	44782508	FR WS 12520 M14 A 80
				120	6,850	12,200	2	44782512	FR WS 12520 M14 A 120

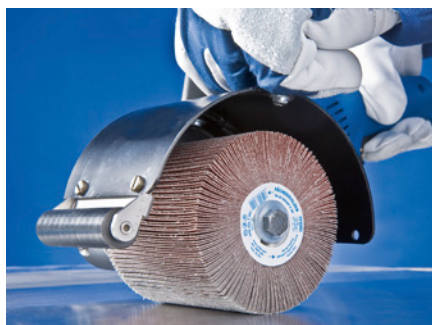


## 4 Flap drums




### 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	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

# Non-woven tools

## General information



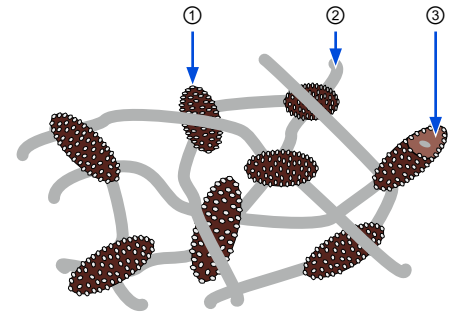
### Non-woven abrasives

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.

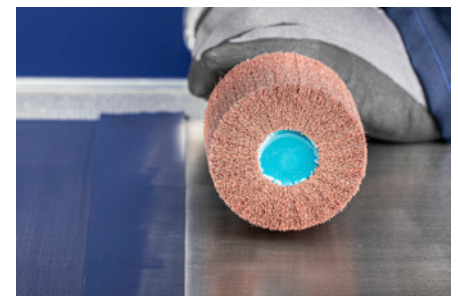
The very loose connections between the individual fibres ensures a high level of flexibility and gives a strong spring-type effect to the non-woven material. It is flexible and supple, and leaves behind a very distinctive surface structure. The satin-finished grinding result is unique and cannot be achieved 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 (Al<sub>2</sub>O<sub>3</sub>)

Aluminium oxide (Al<sub>2</sub>O<sub>3</sub>) 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!

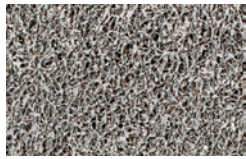


# Non-woven tools

## 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.



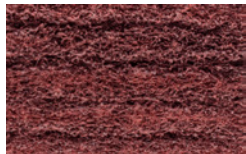
#### PNK

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.



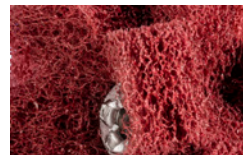
#### PNR

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.



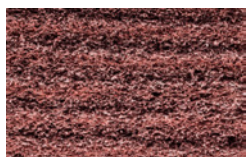
#### PNL

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.



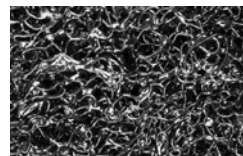
#### PNST

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.



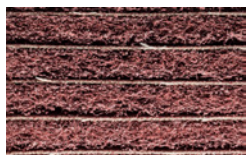
#### PNL-HP

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.



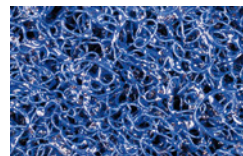
#### POLICLEAN

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 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.



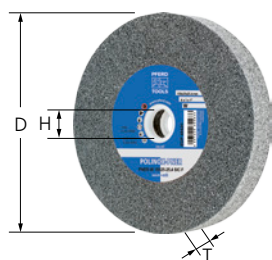
## Comparison table

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:

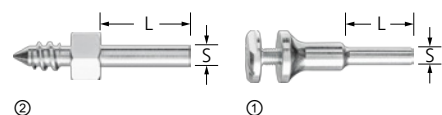
- High economic efficiency due to high abrasive performance and long tool life.
- Produces very good surface quality and can be profiled as desired, enabling optimal adjustment to the contour. Ideal for cleaning, deburring, blending and polishing.

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	W	SiC	6,400	10,200	BO 6/6 3-10	5	44691627	PNER-W 7506-6 SiC F
				MW	SiC	6,400	10,200	BO 6/6 3-10	5	44691427	PNER-MW 7506-6 SiC F
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.

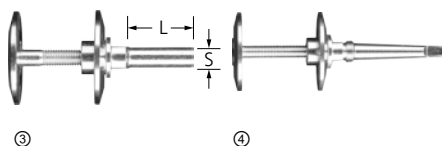


Image	Suitable for hole diameter [mm]	S [mm]	L [mm]	Clamping range [mm]		Item no.	Designation
②	6	6	25	-	1	42700256	BO PNER 25 S6
①	6	6	25	3 - 10	1	42400006	BO 6/6 3-10

# Non-woven tools

## Arbor for POLINOX unitized/convolute wheels



### 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
--------	--------	--------	-----------	---------	----------	----------	----------	---	----------	-------------

#### Type for angle grinders and fillet weld grinders

125	6	22.23	fine	MH (medium-hard)	A	4,500	6,100	1	44691252	PNER-MH 12506-22,2 A F
			coarse	H (hard)	A	4,500	6,100	1	44691053	PNER-H 12506-22,2 A G

## 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
125	13	22.23	fine	W (soft)	SiC	5,400	10,000	1	44690733	DISC PNER-W 125-22,2 SiC F
				MW (medium-soft)	SiC	5,400	10,000	1	44690723	DISC PNER-MW 125-22,2 SiC F
				MH (medium-hard)	SiC	5,400	10,000	1	44690713	DISC PNER-MH 125-22,2 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.



4

## Comparison table

Type	PFERD TOOLS PNK			3M	Standard Abrasives	Norton	BIBIELLE
	Colour code	Abrasive	Grit				
Soft	<b>W</b>	A	coarse	CP-WL 5AM	MF CV 5AM	MF CF 5AM	BCW-MF 5AM
Medium-soft	<b>MW</b>	SiC	fine	LDW 7SF	LDW 7SF	Series 2000 7SF	BCW-DB 7SF
Medium-hard	<b>MH</b>	SiC	fine	EXL Deburring 8SF	Deburring 8SF	Series 1000 8SF	BCW-DB 8SF
	<b>MH</b>	A	coarse	EXL Deburring 8AM	GP Plus 8AM	Series 1000 8AM	BCW-DB 8AM
Hard	<b>H</b>	SiC	fine	Deburring 9SF	EXL Deburring 9SF	Series 1000 9SF	BCW-DB 9SF
Extra-hard	<b>EH</b>	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.

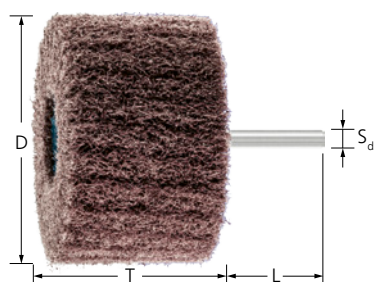


#### Special features:

- 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	MW (medium-soft)	SiC	2,500	5,100	1	47802641	PNK-MW 15025-25,4 SiC F
				MH (medium-hard)	SiC	2,500	5,100	1	47802643	PNK-MH 15025-25,4 SiC F
			coarse	MH (medium-hard)	A	2,500	5,100	1	47802642	PNK-MH 15025-25,4 A G
	50	25.4	coarse	W (soft)	A	2,500	5,100	1	47802731	PNK-W 15050-25,4 A G

## 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 <sub>d</sub> [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	100	7,500	15,000	10	44654100	PNL 4020/6 A 100
								1	47800139	POS PNL 4020/6 A 100
					180	7,500	15,000	10	44654180	PNL 4020/6 A 180
					280	7,500	15,000	10	44654280	PNL 4020/6 A 280
50	30	6	40	A	100	6,000	12,000	10	44655100	PNL 5030/6 A 100
					180	6,000	12,000	10	44655180	PNL 5030/6 A 180
					280	6,000	12,000	10	44655280	PNL 5030/6 A 280
60	50	6	40	A	100	5,000	10,000	5	44666100	PNL 6050/6 A 100
								1	47800140	POS PNL 6050/6 A 100
					180	5,000	10,000	5	44666180	PNL 6050/6 A 180
					280	5,000	10,000	5	44666280	PNL 6050/6 A 280

Continued on next page



# Non-woven tools

## POLINOX mounted grinding wheels

D [mm]	T [mm]	S <sub>d</sub> [mm]	L [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
80	50	6	40	A	100	4,000	7,500	1	44658100	PNL 8050/6 A 100
					180	4,000	7,500	1	44658180	PNL 8050/6 A 180
					280	4,000	7,500	1	44658280	PNL 8050/6 A 280

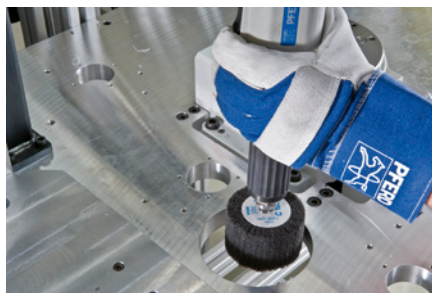
### Silicon carbide (SiC)

40	20	6	40	SiC	180	7,500	15,000	10	44640418	PNL 4020/6 SiC 180
					280	7,500	15,000	10	44640428	PNL 4020/6 SiC 280
50	30	6	40	SiC	180	6,000	12,000	10	44640518	PNL 5030/6 SiC 180
60	50	6	40	SiC	180	5,000	10,000	5	44640618	PNL 6050/6 SiC 180
80	50	6	40	SiC	180	4,000	7,500	1	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 clogging.

D [mm]	T [mm]	S <sub>d</sub> [mm]	L [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
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### Aluminium oxide A

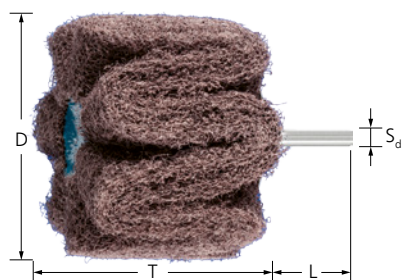
40	20	6	40	A	100	7,500	15,000	10	44654080	PNZ 4020/6 A 100
								1	47800141	POS PNZ 4020/6 A 100
60	50	6	40	A	180	7,500	15,000	10	44654088	PNZ 4020/6 A 180
								5	44656080	PNZ 6050/6 A 100
80	50	6	40	A	180	5,000	10,000	1	47800142	POS PNZ 6050/6 A 100
								5	44656088	PNZ 6050/6 A 180
100	50	6	40	A	100	4,000	7,500	1	44658080	PNZ 8050/6 A 100
					180	4,000	7,500	1	44658088	PNZ 8050/6 A 180
100	50	6	40	A	100	3,000	6,000	1	44690080	PNZ 10050/6 A 100
					180	3,000	6,000	1	44690088	PNZ 10050/6 A 180

### Silicon carbide (SiC)

80	50	6	40	SiC	100	4,000	7,500	1	44640806	PNZ 8050/6 SiC 100
					180	4,000	7,500	1	44640808	PNZ 8050/6 SiC 180

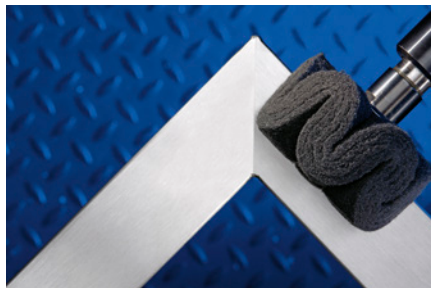
# Non-woven tools

## POLINOX mounted grinding wheels




### PNG type

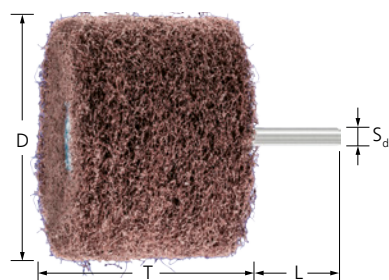
Made of several very wavy arranged strips of non-woven abrasive material, wound around a core. The wavy structure of the non-woven abrasive material permits seamless brush matting of surfaces. Available in aluminium oxide A and silicon carbide (SiC).



#### 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 <sub>d</sub> [mm]	L [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
<b>Aluminium oxide A</b>										
100	50	6	40	A	100	3,000	6,000	1	44669100	PNG 10050/6 A 100
					180	3,000	6,000	1	44669180	PNG 10050/6 A 180
					280	3,000	6,000	1	44669280	PNG 10050/6 A 280
<b>Silicon carbide (SiC)</b>										
100	50	6	40	SiC	100	3,000	6,000	5	44640910	PNG 10050/6 SiC 100
					180	3,000	6,000	1	44640918	PNG 10050/6 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.

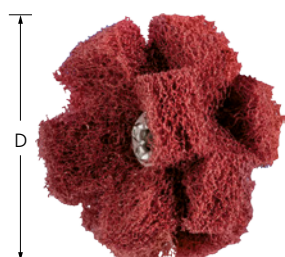


#### Special features:

- 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 <sub>d</sub> [mm]	L [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
60	50	6	40	A	100	5,000	10,000	5	44656100	PNR 6050/6 A 100
					180	5,000	10,000	5	44656180	PNR 6050/6 A 180
					280	5,000	10,000	5	44656280	PNR 6050/6 A 280
80	50	6	40	A	100	4,000	7,500	1	44668100	PNR 8050/6 A 100
					180	4,000	7,500	1	44668180	PNR 8050/6 A 180
					280	4,000	7,500	1	44668280	PNR 8050/6 A 280





### PNST type

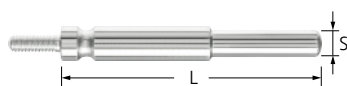
Suitable for cleaning, deburring and fine grinding of inner surfaces and contours. Particularly suitable for hard-to-reach places such as drilled holes and indentations. Available in aluminium oxide A.



#### 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	80	3	7,500	12,600	20	44698384	PNST 38-3 A 80
		100	3	7,500	12,600	20	44698382	PNST 38-3 A 100
		280	3	7,500	12,600	20	44698383	PNST 38-3 A 280



### Arbor BO PNST

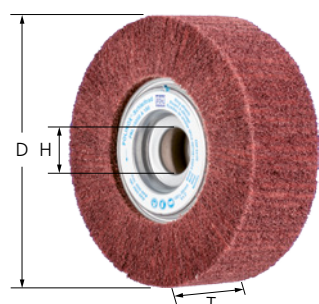
Arbor for POLINOX cross buffs which also enables holes and cut-outs to be reached easily.

#### Special features:

- High economic efficiency as tool can be changed quickly.

S [mm]	L [mm]	Thread	Clamping length [mm]		Item no.	Designation
6	75	8-32 UNC	30	1	42700675	BO PNST 6-75
	125	8-32 UNC	30	1	42700685	BO PNST 6-125

## POLINOX unmounted grinding wheels



### PNL type

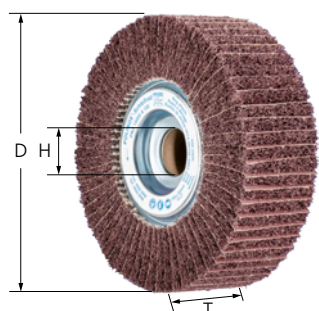
The non-woven abrasive material with aluminium oxide A as the abrasive is arranged in multi-radial flaps. A long tool life is achieved through the dense packing of the flaps. This tool is mainly used for work on large surfaces.



#### 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	180	1,500	3,000	FR/VR 12/44.0	1	44644219	PNL 20050/44 A 180




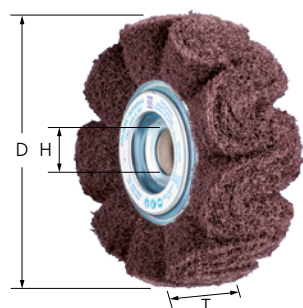
### PNZ type

Grinding wheels with non-woven abrasive material with aluminium oxide A arranged in multiple radial flaps and with abrasive cloth between the flaps. This facilitates improved stock removal and achieves a coarser surface finish. The grinding wheels are mainly used for work on large surfaces.

#### Special features:

- Highly flexible, enabling optimal adjustment to the contour. Cool grinding and low thermal load on the workpiece.
- The open structure and high flexibility of the non-woven material prevents tool clogging.
- Please order compatible arbor separately.

D [mm]	T [mm]	H [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM	Suitable arbors		Item no.	Designation
150	50	25.4	A	100	2,000	4,000	FR/VR 12/25.4	1	44645111	PNZ 15050/25,4 A 100




### PNG type

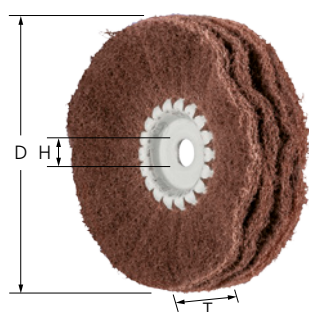
Made of several very wavyly arranged strips of non-woven abrasive material with aluminium oxide A as the abrasive, wound around a core. The wavy structure of the non-woven abrasive material permits seamless brush matting of surfaces.



#### Special features:

- Highly flexible, enabling optimal adjustment to the contour. Cool grinding and low thermal load on the workpiece.
- The open structure and high flexibility of the non-woven material prevents tool clogging.
- Please order compatible arbor separately.

D [mm]	T [mm]	H [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM	Suitable arbors		Item no.	Designation
150	50	25.4	A	100	2,000	4,000	FR/VR 12/25.4	1	44646111	PNG 15050/25,4 A 100
				180	2,000	4,000	FR/VR 12/25.4	1	44646119	PNG 15050/25,4 A 180
				280	2,000	4,000	FR/VR 12/25.4	1	44646129	PNG 15050/25,4 A 280




### PNR type

Made of slightly wavyly arranged strips of non-woven material with aluminium oxide A as the abrasive, wound around a metal core. Exceptional adaptation to contours thanks to the open arrangement and high flexibility. Enable seamless brush matting of surfaces, profiles and pipes.

#### Special features:

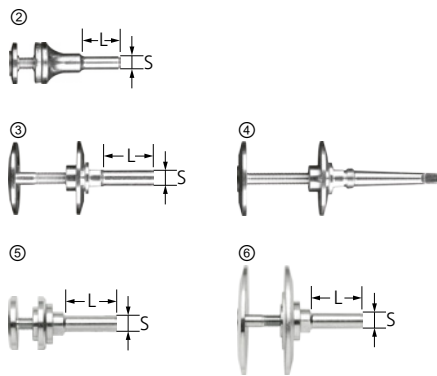
- Highly flexible, enabling optimal adjustment to the contour. Cool grinding and low thermal load on the workpiece.
- The open structure and high flexibility of the non-woven material prevents tool clogging.
- Please order compatible arbor separately.

D [mm]	T [mm]	H [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
150	40	20	A	180	2,000	4,000	1	44647518	PNR 15040/20 A 180



# Non-woven tools

## Arbor for POLINOX grinding wheels




### Arbor

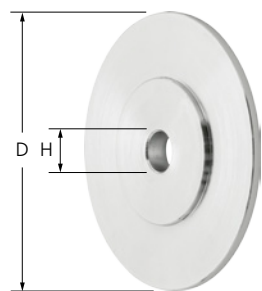
Matching arbor for POLINOX unmounted grinding wheels.

#### 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
②	10	8	30	6 – 20	1	42400008	BO 8/10 6-20
⑤	25.4	12	40	25 – 50	1	44601225	FR/VR 12/25,4 100-165
⑥	44	12	40	25 – 50	1	44601244	FR/VR 12/44,0 200-250

## Reducing flanges for POLINOX grinding wheels RF




### RF FR

For mounting unmounted flap wheels and POLINOX grinding wheels on drive spindles. The clamping flanges are designed to lie countersunk in the tool.

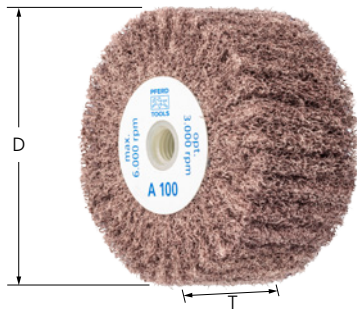
#### Special features:

- Can be adapted to an existing drive spindle by drilling.
- Can be used face-down very close to edges and in corners thanks to special clamping system.

Suitable for tool diameter [mm]	D [mm]	H [mm]	Max. H [mm]		Item no.	Designation
150, 165	40	12	22.2	1	44771225	RF FR 150-165 Bo. 12-22,2
200, 250	83	12	40	1	44771244	RF FR 200-250 Bo. 12-40

# Non-woven tools

## Threaded POLINOX grinding wheels



### PNL type

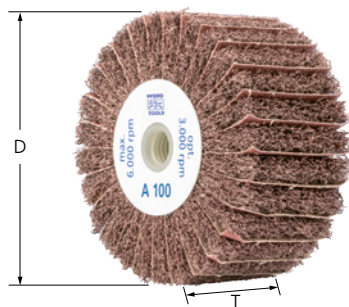
The non-woven abrasive material with aluminium oxide A as the abrasive is arranged in multiple radial flaps. A long tool life is achieved through the dense packing of the flaps. For work on medium-sized surfaces.



#### 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:

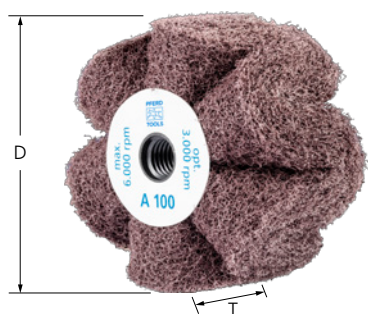
- Highly flexible, enabling optimal adjustment to the contour. Cool grinding and low thermal load on the workpiece.
- The open structure and high flexibility of the non-woven material prevents tool clogging.
- Can be mounted directly onto speed-adjustable angle grinders and fillet weld grinders without 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 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 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 discs



### PNL type

The non-woven abrasive flaps with aluminium oxide A as the abrasive are stuck to a glass-fabric backing pad, meaning the discs can be used face-down. A long tool life is achieved through the dense packing of the flaps.

#### Special features:

- Highly flexible, enabling optimal adjustment to the contour. Cool grinding and low thermal load on the workpiece.
- The open structure and high flexibility of the non-woven material prevents tool clogging.
- For work on large surfaces using speed-adjustable angle grinders.

D [mm]	T [mm]	H [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
125	20	22.23	A	100	2,300	3,800	5	44692261	PNL 125-22,23 A 100
				180	2,300	3,800	5	44692262	PNL 125-22,23 A 180



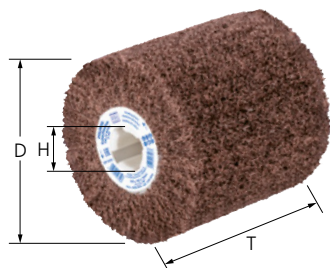
### PNZ type

The non-woven and abrasive-cloth flaps with aluminium oxide A as the abrasive are stuck to a glass-fabric backing pad, meaning the discs can be used face-down on large surfaces. A long tool life is achieved through the dense packing of the flaps.

#### Special features:

- Highly flexible, enabling optimal adjustment to the contour. Cool grinding and low thermal load on the workpiece.
- The open structure and high flexibility of the non-woven material prevents tool clogging.
- For work on large surfaces using speed-adjustable angle grinders.

D [mm]	T [mm]	H [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
125	20	22.23	A	100	2,300	3,800	5	44692266	PNZ 125-22,23 A 100
				180	2,300	3,800	5	44692267	PNZ 125-22,23 A 180




### PNL-W type

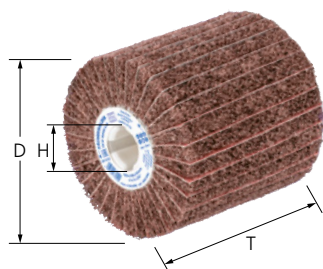
For work on large surfaces. The non-woven abrasive material with aluminium oxide A as the abrasive is arranged in multiple radial flaps. A long tool life is achieved through the dense packing of the flaps.



#### 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




### 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:

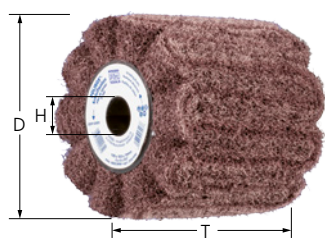
- Long tool life thanks to tightly packed flaps. Cool grinding and low thermal load on the workpiece.
- The open structure and high flexibility of the non-woven material prevents tool clogging.
- Suitable for all conventional keyway systems. The 19 mm hole diameter with four keyways fits all conventional 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



# Non-woven tools

## POLINOX grinding drums



### 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.

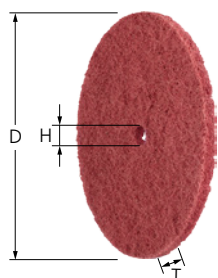


#### Special features:

- 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	100	2,500	4,800	1	44641201	PNG-W 100100 A 100
				180	2,500	4,800	1	44641202	PNG-W 100100 A 180
				280	2,500	4,800	1	44641203	PNG-W 100100 A 280

## POLINOX discs



### PVR type

POLINOX discs with aluminium oxide A as the abrasive are suited to flexible work on complicated workpiece contours, and are used in peripheral grinding applications. Clamp up to three discs behind one another to increase the usage width.



#### Special features:

- Highly flexible, enabling optimal adjustment to the contour, with very long tool life. Hard-to-reach areas can be accessed, such as deep slots and recesses.
- The open structure and high flexibility of the non-woven material prevents tool clogging.
- Please order the arbor for POLINOX discs separately.

D [mm]	T [mm]	H [mm]	Abrasive	Grit size	Max. RPM	Suitable arbors		Item no.	Designation
150	10	13	A	100	4,100	PVR 6/13 1-25	10	44693151	PVR 15010-13 A 100
				280	4,100	PVR 6/13 1-25	10	44693152	PVR 15010-13 A 280

## Arbor for POLINOX discs



### Arbor PVR

Arbor for POLINOX discs.

#### Special features:

- High economic efficiency as tool can be changed quickly.

- Use the supplied side discs with a diameter of 50 and 80 mm in order to vary the lateral flexibility.

Suitable for hole diameter [mm]	S [mm]	L [mm]	Clamping range [mm]		Item no.	Designation
13	6	35	1 - 25	1	23600506	PVR 6/13 1-25




### Flap discs PVL

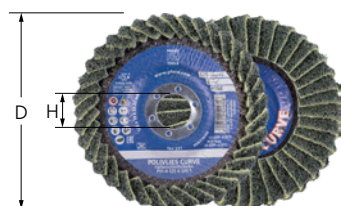
Flap discs with abrasive flaps made of aluminium oxide A for general coarse to fine grinding applications in industry and professional trades.



#### 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	5	44694131	PVL-R 125 A 100 G
			180	5,300	12,200	5	44694132	PVL-R 125 A 180 M
			240	5,300	12,200	5	44694133	PVL-R 125 A 240 F






### Flap discs PVZ

Flap discs with abrasive flaps made of ceramic oxide grain CO-COOL and aluminium oxide A. Consistently high performance and aggressive grinding due to self-sharpening ceramic oxide grain. Active grinding additives improve the stock removal rate, prevent clogging and result in cooler grinding.



#### Special features:

- High economic efficiency due to high abrasive performance and long tool life.
- Creates a consistently high surface quality over the entire tool life, as new sharp abrasive is steadily released.
- Highly flexible, enabling optimal adjustment to the contour.

D [mm]	T [mm]	H [mm]	Abrasive/grit size	Opt. RPM	Max. RPM		Item no.	Designation
125	18	22.23	CO-COOL 60 / A 100 G	4,600 – 5,300	12,200	5	44695111	PVZ 125 CO-COOL 60 / A 100 G
			CO-COOL 80 / A 180 M	4,600 – 5,300	12,200	5	44695112	PVZ 125 CO-COOL 80 / A 180 M
			CO-COOL 120 / A 240 F	4,600 – 5,300	12,200	5	44695113	PVZ 125 CO-COOL 120 / A 240 F




### Hook and loop discs PVKR

These hook and loop discs are suited to grinding larger surfaces. The flexible system, comprising a hook and loop disc and holder, can also be used on contours. The pre-punched holes mean that they can be ideally centred on and used with various backing pads.



#### Special features:

- High economic efficiency due to high abrasive performance and long tool life. Highly flexible, enabling optimal adjustment to the contour.
- Creates a consistently high surface quality over the entire tool life, as new sharp abrasive is steadily released.
- Please order POLIVLIES hook and loop disc holders separately. Break out the pre-punched centring hole if required.

D <sub>1</sub> [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM	Suitable arbors		Item no.	Designation
125	A	100 G	3,000	4,850	PVKRH 125	10	42871406	PVKR 125-22 A 100G
		180 M	3,000	4,850	PVKRH 125	10	42871410	PVKR 125-22 A 180M
		240 F	3,000	4,850	PVKRH 125	10	42871418	PVKR 125-22 A 240F
180	A	100 G	2,200	3,500	PVKRH 180	10	42871606	PVKR 180-22 A 100G
		180 M	2,200	3,500	PVKRH 180	10	42871610	PVKR 180-22 A 180M
		240 F	2,200	3,500	PVKRH 180	10	42871618	PVKR 180-22 A 240F

# Non-woven tools

## Hook and loop disc holders PVKRH




### Hook and loop disc holders PVKR

Holders for POLIVLIES hook and loop discs.

**Special features:**

- High economic efficiency as tool can be changed quickly.
- Enables surface finishing without visible transitions.

D [mm]	Thread	Max. RPM		Item no.	Designation
180	M14	8,500	1	42711784	PVKRH 180 M14




### Hook and loop disc holder PVKR with centring pin

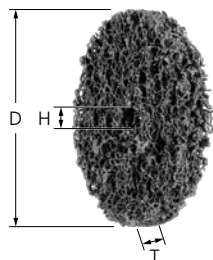
Holders for POLIVLIES hook and loop discs.

**Special features:**

- Enables faster central clamping.
- High economic efficiency as tool can be changed quickly.
- Enables surface finishing without visible transitions.

D [mm]	Thread	Max. RPM		Item no.	Designation
115	M14	13,300	1	42712115	PVKRH 115-22 M14
125	M14	12,200	1	42712125	PVKRH 125-22 M14
180	M14	8,500	1	42712178	PVKRH 180-22 M14

## POLICLEAN tools



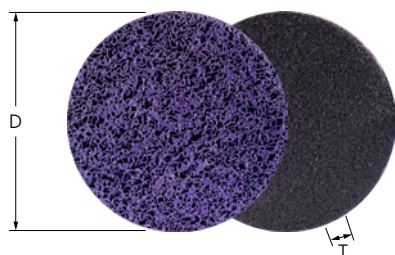
### POLICLEAN wheels PCLS (standard version)

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		Item no.	Designation
100	13	13	3,000 – 3,800	7,500	4	44692100	PCLS 10013/13
150	13	13	2,000 – 2,500	5,100	4	44692150	PCLS 15013/13
178	13	6	1,500 – 2,150	4,300	5	47801723	GP PCLS 17813/6
		20	1,500 – 2,150	4,300	5	47801752	GP PCLS 17813/20




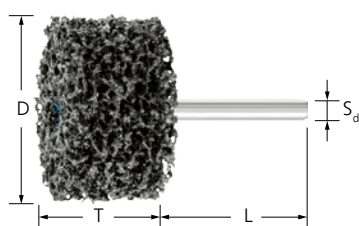
### POLICLEAN wheels PCLS PRO

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 discoloration, rust and adhesive residues in surface grinding.

#### Special features:

- High stock removal rate, good tool life and high aggressive performance.
- High flexibility and open structure mean optimal adjustment to contours and no clogging of the tool itself.
- Thanks to the hook & loop fastening system, suitable for general use on almost all hook and loop disc holders.

D [mm]	T [mm]	H [mm]	Opt. RPM	Max. RPM		Item no.	Designation
180	13	20	1,500 – 2,150	4,300	5	47803326	PCLS PRO 18013/20
						47803251	PCLS PRO 180 H&L



### POLICLEAN mounted tools PCLZY

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

#### Special features:

- High flexibility and open structure mean optimal adjustment to contours and no clogging of the tool itself.
- Flexible and suitable for finer surface finishes.



D [mm]	T [mm]	S <sub>d</sub> [mm]	L [mm]	H [mm]	Opt. RPM	Max. RPM		Item no.	Designation
50	13	6	40	6	6,000 – 7,000	15,000	5	44692251	PCLZY 5013/6
	26	6	40	6	6,000 – 7,000	15,000	5	44692252	PCLZY 5026/6
75	13	6	40	6	4,000 – 5,100	10,000	5	44692271	PCLZY 7513/6
	26	6	40	6	4,000 – 5,100	10,000	5	44692272	PCLZY 7526/6
100	13	6	40	6	3,000 – 3,800	7,500	5	44692291	PCLZY 10013/6




### POLICLEAN 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 discoloration, rust and adhesive residues on finer surfaces.

#### Special features:

- High flexibility and open structure mean optimal adjustment to contours and no clogging of the tool itself.
- Please order compatible arbor separately.



D [mm]	T [mm]	H [mm]	Opt. RPM	Max. RPM		Item no.	Designation
115	13	22.23	5,000 – 7,000	10,000	5	44692715	PCLD 115-13
125	13	22.23	5,000 – 7,000	10,000	5	44692725	PCLD 125-13




### POLICLEAN discs PCLD PRO

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 residue.

#### Special features:

- High stock removal rate, good tool life and high aggressive performance.
- High flexibility and open structure mean optimal adjustment to contours and no clogging of the tool itself.
- Thanks to the hook & loop fastening system, suitable for general use on almost all hook and loop disc holders.

D [mm]	T [mm]	H [mm]	Opt. RPM	Max. RPM		Item no.	Designation
125	13	22.23	5,000 – 7,000	10,000	1	47803318	POS-PCLD PRO 125-13 AU
					5	47803249	PCLD PRO 125-13 AU
180	13	22.23	3,200 – 4,800	6,900	5	47803250	PCLD PRO 180-13




### POLICLEAN discs PCLD PLUS

POLICLEAN is a coarsely structured, aggressive, non-woven cleaning fabric made from a special combination of synthetic fibres and abrasive grain. The non-woven cleaning material is glued onto a backer. For roughening and for coarse cleaning work such as removing paint, scale, heat discolouration, rust and adhesive residues.

#### Special features:

- Considerably higher stock removal rate, very good tool life and very high aggressive performance.
- High flexibility and open structure mean optimal adjustment to contours and no clogging of the tool itself.
- Please order compatible arbor separately.

D [mm]	T [mm]	H [mm]	Opt. RPM	Max. RPM		Item no.	Designation
100	13	16	5,000 – 7,000	10,000	5	44692711	PCLD PLUS 100-13
115	13	22.23	5,000 – 7,000	10,000	5	44692716	PCLD PLUS 115-13
125	13	22.23	5,000 – 7,000	10,000	5	44692726	PCLD PLUS 125-13




### POLICLEAN drum

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

#### Special features:

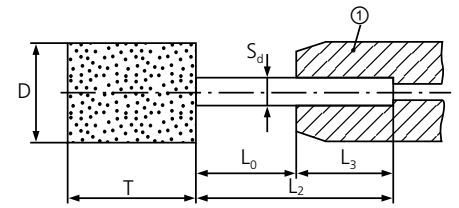
- High flexibility and open structure mean optimal adjustment to contours and no clogging of the tool itself.
- Long tool life thanks to tightly packed flaps. Cool grinding and low thermal load on the workpiece.
- Suitable for all conventional keyway systems. The 19 mm hole diameter with four keyways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

D [mm]	T [mm]	H [mm]	Opt. RPM	Max. RPM		Item no.	Designation
100	100	19	2,500	4,800	1	47803369	PCLW 100100/19



### 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

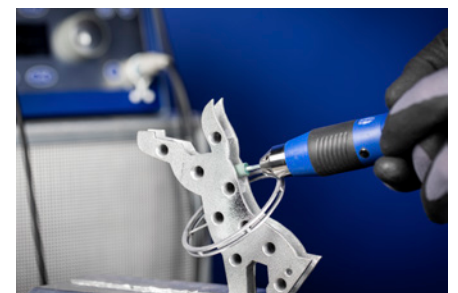
Select the application.








#### ③ Desired surface

Select your desired surface.

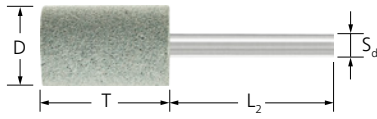
#### ④ Tool bond

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



				Bond ▶			Elastomer bond				Resinoid bond		
				Polyurethane bond			AR	ANCN	AW	AWCN	AN		
① Material group ▼		② Application ▼		③ Surface ▼		Abrasive (grain mixtures) ▶			④ Designation/bond ▶				
						CN			GR	GHR	LR	LHR	TX
													
						W (Soft)	MH (Medium-hard)	STRUC	10-12 m/s	20-25 m/s	15-20 m/s	30-40 m/s	20-25 m/s
						10-12 m/s	10-15 m/s	5-10 m/s	10-12 m/s	20-25 m/s	15-20 m/s	30-40 m/s	20-25 m/s
Steel, cast steel	Steels up to 1.200 N/mm <sup>2</sup> (< 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 <sup>2</sup> (> 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




### Poliflex fine grinding points PF ZY PUR

The PUR bond is manufactured with green silicon carbide (SiC). It is homogeneously interspersed with abrasive grain and very soft. Grinding point in cylindrical shape, for fine grinding of small surfaces.

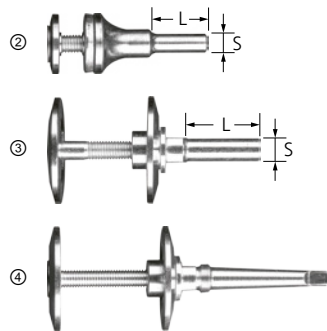


**Special features:**

- Highly flexible, enabling optimal adjustment to the contour.
- Cool and very gentle grinding thanks to open structure and elastic bond.
- Produces a fine, matt surface finish.

D [mm]	T [mm]	S <sub>d</sub> [mm]	L <sub>2</sub> [mm]	Bond	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
20	30	6	40	PUR-MH	SiC	150	9,500	14,300	10	41293215	PF ZY 2030/6 CN 150 PUR-MH

4




### Arbor BO

Matching arbor for Poliflex fine grinding discs.

**Special features:**

- High economic efficiency as tool can be changed quickly.

Image	Suitable for hole diameter [mm]	S [mm]	L [mm]	Clamping range [mm]		Item no.	Designation
②	10	8	30	6 – 20	1	42400008	BO 8/10 6-20




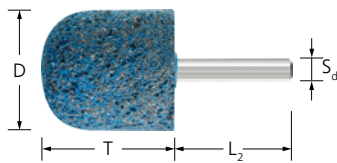
### Poliflex blocks PUR

The PUR bond is manufactured with green silicon carbide (SiC). It is homogeneously interspersed with abrasive grain and very soft. The rhomboidal shape enables work to be effortlessly performed on hard-to-reach places such as corners.

**Special features:**

- Cool and very gentle grinding thanks to open structure and elastic bond.
- Produces a fine, matt surface finish.
- With a diamond cut-off wheel, the size can be adapted to the respective application as required.

L [mm]	B [mm]	H [mm]	Abrasive	Grit size		Item no.	Designation
115	60	30	SiC	60	5	41020060	PFB 1156030 CU 60 PUR
				120	5	41020120	PFB 1156030 CU 120 PUR
				240	5	41020240	PFB 1156030 CU 240 PUR




### Poliflex mounted texturing points PF WR PU-STRUC

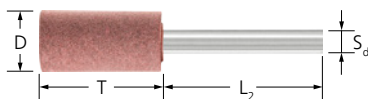
Structuring tools made of grey silicon carbide, homogeneously interspersed with a high proportion of abrasive grain. Ideal for work on components made of stainless steel (INOX). Mounted texturing point in cylindrical shape with radius end, for structuring small surfaces, transitions and inner radii.

**Special features:**

- Highly flexible, enabling optimal adjustment to the contour.
- Cool and gentle grinding thanks to open structure and elastic bond.
- Quick and effective retouching of imperfections and transitions to directional textures.

D [mm]	T [mm]	S <sub>d</sub> [mm]	L <sub>2</sub> [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
30	45	8	40	SiC	16	3,150 – 6,350	9,500	5	41393700	PF WR 3045/8 CU 16 PU-STRUC

### GR bond




### Poliflex fine grinding points PF ZY GR

This bond is a soft elastomer-based bond with pink aluminium oxide. Suitable for use on surfaces. Grinding point in cylindrical shape, for fine grinding of small surfaces.

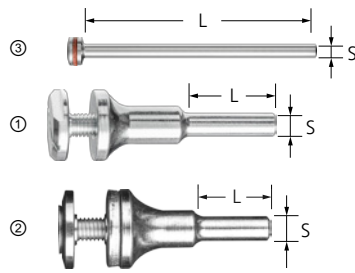


**Special features:**

- Soft grinding thanks to soft, elastic bond.
- Produces a fine, shiny surface finish.

D [mm]	T [mm]	S <sub>d</sub> [mm]	L <sub>2</sub> [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
6	10	3	30	A	120	32,000	47,700	10	41200512	PF ZY 0610/3 AR 120 GR
10	10	3	30	A	120	19,000	28,600	10	41207112	PF ZY 1010/3 AR 120 GR
	15	3	30	A	120	19,000	28,600	10	41213112	PF ZY 1015/3 AR 120 GR
12	8	3	30	A	120	16,000	23,800	10	41264112	PF ZY 1208/3 AR 120 GR
10	25	6	40	A	120	19,000	28,600	10	41219112	PF ZY 1025/6 AR 120 GR
15	25	6	40	A	120	12,500	19,000	10	41237112	PF ZY 1525/6 AR 120 GR
20	30	6	40	A	120	9,500	14,300	10	41246112	PF ZY 2030/6 AR 120 GR






**Arbor BO**

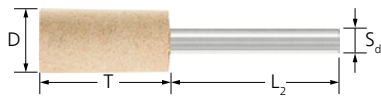
Matching arbor for POLIFLEX fine grinding discs and lenses.

**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
②	10	8	30	6 – 20	1	42400008	BO 8/10 6-20

**LR bond**




**Poliflex fine grinding points PF ZY LR**

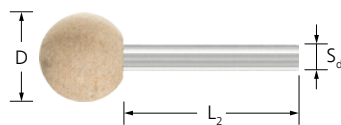
A hard, sturdy bond with white aluminium oxide. Suitable for use on surfaces. Grinding point in cylindrical shape, for fine grinding of small surfaces.



**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 <sub>d</sub> [mm]	L <sub>2</sub> [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
8	12	3	30	A	120	47,500	71,600	10	41204212	PF ZY 0812/3 AW 120 LR
10	15	3	30	A	120	38,000	57,200	10	41213212	PF ZY 1015/3 AW 120 LR




**Poliflex fine grinding points PF KU LR**

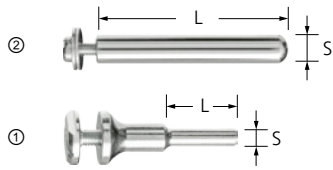
A hard, sturdy bond with white aluminium oxide. Suitable for use on surfaces. Grinding point in ball shape for fine grinding inner radii, contours and transitions.



**Special features:**

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

D [mm]	S <sub>d</sub> [mm]	L <sub>2</sub> [mm]	Abrasive	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
8	3	30	A	120	47,000	71,600	10	41401212	PF KU 08/3 AW 120 LR




### 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!



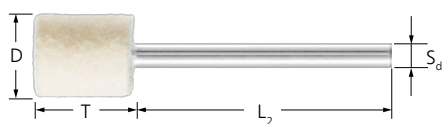
Wear hearing protection!



Follow the safety instructions!



### Felt points FK




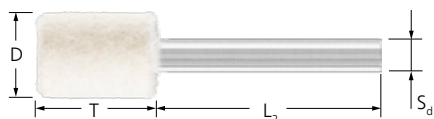
#### Shape ZYA

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 <sub>d</sub> [mm]	L <sub>2</sub> [mm]	Version	Opt. RPM	Max. RPM		Item no.	Designation
10	15	3	32	M (medium)	10,000 – 20,000	47,500	10	44111013	FK ZYA 1015/3 M
		6	40	M (medium)	10,000 – 20,000	47,500	10	44101671	FK ZYA 1015/6 M




#### Shape ZYA with end hole

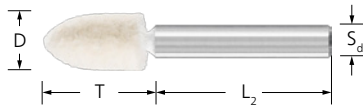
The cylindrical shape ZYA is mainly used face-down for pre-polishing and high-gloss polishing. Can be profiled as desired, meaning they can also be used for tools with complex geometries. Precise retention of geometric shapes due to the hardness of these tools.

#### 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 <sub>d</sub> [mm]	L <sub>2</sub> [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

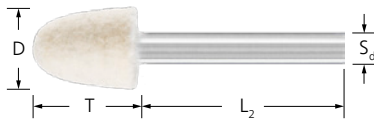
The conical pointed shape SPK is mainly used for pre-polishing and high-gloss polishing of radii and contours.

#### 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.

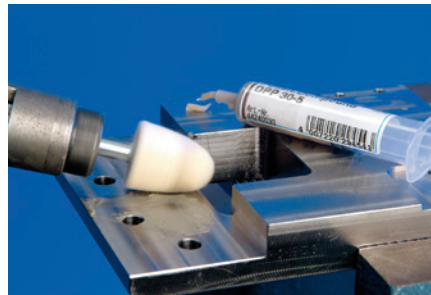
- Outstanding result with diamond polishing pastes and polishing paste bars from PFERD TOOLS. Please order separately.

D [mm]	T [mm]	S <sub>d</sub> [mm]	L <sub>2</sub> [mm]	Version	Opt. RPM	Max. RPM		Item no.	Designation
10	18	3	33	M (medium)	10,000 – 20,000	47,500	10	44171013	FK SPK 1018/3 M
12	18	3	33	M (medium)	8,000 – 16,000	39,500	10	44141218	FK SPK 1218/3 M
10	18	6	41	M (medium)	10,000 – 20,000	47,500	10	44101691	FK SPK 1018/6 M
15	20	6	42	M (medium)	6,000 – 12,000	31,500	10	44171526	FK SPK 1520/6 M
	30	6	45	M (medium)	6,000 – 12,000	31,500	10	44171536	FK SPK 1530/6 M
20	25	6	47	M (medium)	5,000 – 10,000	23,500	10	44152025	FK SPK 2025/6 M




### Shape KEL

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

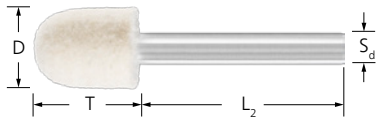


#### Special features:

- 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 <sub>d</sub> [mm]	L <sub>2</sub> [mm]	Version	Opt. RPM	Max. RPM		Item no.	Designation
15	20	6	42	M (medium)	6,000 – 12,000	31,500	10	44151521	FK KEL 1520/6 M
20	25	6	47	M (medium)	5,000 – 10,000	23,500	10	44182026	FK KEL 2025/6 M
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

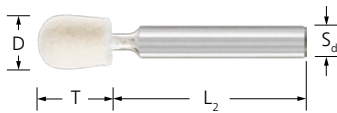
The cylindrical shape with radius end WRC is mainly used for pre-polishing and high-gloss polishing of small, concave contours.



#### 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 <sub>d</sub> [mm]	L <sub>2</sub> [mm]	Version	Opt. RPM	Max. RPM		Item no.	Designation
10	14	3	35	M (medium)	10,000 – 20,000	47,500	10	44141014	FK WRC 1014/3 M
15	20	6	42	M (medium)	6,000 – 12,000	31,500	10	44131526	FK WRC 1520/6 M
20	25	6	47	M (medium)	5,000 – 10,000	23,500	10	44132026	FK WRC 2025/6 M
25	30	6	45	M (medium)	4,000 – 8,000	19,000	10	44132536	FK WRC 2530/6 M




### Shape TRE

The oval shape TRE is mainly used for pre-polishing and high-gloss polishing of small radii.

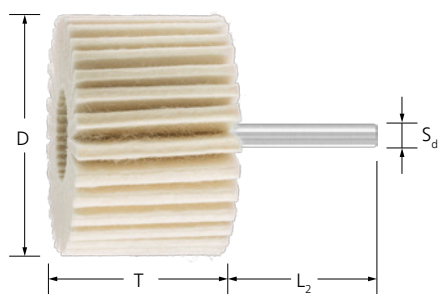
#### Special features:

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

D [mm]	T [mm]	S <sub>d</sub> [mm]	L <sub>2</sub> [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 <sub>d</sub> [mm]	L <sub>2</sub> [mm]	Version	Opt. RPM	Max. RPM		Item no.	Designation
30	20	6	40	W (soft)	6,300	20,000	1	44383020	FLS 3020/6 W
				H (hard)	6,300	20,000	1	44383021	FLS 3020/6 H
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
50	30	6	40	W (soft)	3,800	12,000	1	44385030	FLS 5030/6 W
				H (hard)	3,800	12,000	1	44385031	FLS 5030/6 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
80	50	6	40	W (soft)	2,400	7,500	1	44388050	FLS 8050/6 W
				H (hard)	2,400	7,500	1	44388051	FLS 8050/6 H

## Felt flap discs FFS




### FFS

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



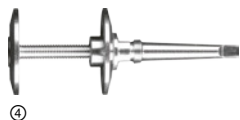
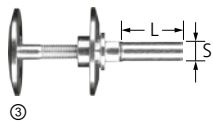
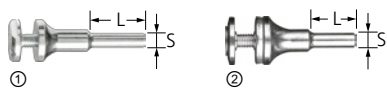
#### Special features:

- 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
125	22	22.23	W (soft)	1,500	7,650	1	44370125	FFS 125/22,23 W
			H (hard)	1,500	7,650	1	44371125	FFS 125/22,23 H

# 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
②	10	8	30	6 – 20	1	42400008	BO 8/10 6-20



# Grinding oils and polishing pastes

## Grinding and polishing pastes




### Grinding pastes SFP

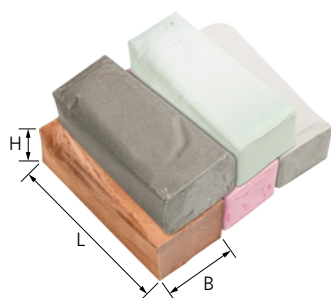
Oil-soluble grinding pastes with sharp-edged silicon carbide grain (SiC) for very fine grinding work, e.g. grinding in valve seats, shaft bearings and as preparation for polishing with felt polishing tools and cloth rings.



#### 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
360	250	1	44220360	SFP 360
800	250	1	44220800	SFP 800




### Polishing paste bar PP

Polishing pastes for felt tools and cloth rings for pre-polishing and high-gloss polishing. To achieve very smooth surface finishes, use pre-polishing paste (VP) and high-gloss polishing paste (HGP) one after the other. The polishing pastes have high productivity and lead to quick results.



#### Special features:

- PP 1, PP 2, PP 3: Use cloth rings in the ST (sisal cloth) version for coarse pre-polishing, and cloth rings in the TH (hard cloth) version for pre-polishing.
- PP 4, PP 5: Use cloth rings in the TW (soft cloth) version for high-gloss polishing, and cloth rings in the FL (flannel) version for high-gloss polishing/buffing.

Version	Use for	Contents [g]	Colour	B [mm]	H [mm]	L [mm]		Item no.	Designation
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#### Bulk pack

Pre-polishing	Steel + INOX	1,100	green	70	50	140	1	44250001	G-PP 1 VP STEELOX
High-gloss polishing	All metals	1,150	pink	70	50	140	1	44250004	G-PP 4 HGP UNIVERSAL

#### Small pack

Pre-polishing	Steel + INOX	108	green	25	30	90	1	44250006	K-PP 1 VP STEELOX
	Aluminium + brass	142	grey	25	30	90	1	44250007	K-PP 2 VP ALU
	Non-ferrous metals	111	brown	25	30	90	1	44250008	K-PP 3 VP NON-FERROUS
High-gloss polishing	All metals	132	pink	25	30	90	1	44250009	K-PP 4 HGP UNIVERSAL
	Plastics	104	beige	25	30	90	1	44250010	K-PP 5 HGP PLAST






### 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

4




### 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