

New in the PFERD Product Line



TRUST BLUE

■ New PFERD products and additions 2010-2013 to the range of the Tool Manual 21



I trust blue.



Workers all over the world trust blue and choose PFERD.

The combination of individual support and innovative high-performance tools with the skills of on-site users always guarantees the optimum result for every task.

Visit our website for information about our innovative products and services.



www.pferd.com

This brochure contains all the new PFERD products and additions to the range 2010-2013 which are not included in the PFERD Tool Manual 21. They are marked by a blue or grey N! symbol and are shown in the respective product groups in catalogues 201-209.

N! New in addition to the Tool Manual 21

N! New in 2013

The gross prices for the new products can be found in the 2013 price list.

Content	Page
PFERDERGONOMICS	4-5
Catalogue 201	
Chain Saw Sharpeners CHAIN SHARP® CS-X	6
Depth Gauge Files for CS-X	6
Catalogue 202	
TC Burrs STEEL Cut	7-10
TC Burrs HICOAT® – Coating HC-FEP	11-13
TC Burrs for Tough Applications	14-15
TC Burrs for ALU/Non-Ferrous Metals	16-17
TC Burrs INOX Cut	18-21
TC Burrs for GRP/CRP	22-23
TC Burrs PLAST Cut	24-25
TC Micro Burrs	26-29
Quick-Mounting System for Hole Saws and Adapter Sets	29
Catalogue 203	
Mounted Points, Hardness J	30-31
Catalogue 204	
COMBICLICK® Fibre Discs	32
■ Type SiC	
COMBICLICK® Non-Woven Discs	
■ Hard type	33
■ Soft type	33
■ Type PNER	34
COMBICLICK® Felt Discs	34
COMBIDISC® Grinding Tools CD, CDR	
■ Type Aluminium Oxide A-CONTOUR	35
■ Non-Woven Discs PNER	36
POLISTAR	
■ POLISTAR-TUBE	37
■ Arbors	37
POLINOX® Mounted Points	
■ Aluminium Oxide PNL	38
■ Aluminium Oxide PNZ	38
■ Cross Buffs PNST	39
■ Arbor for Cross Buffs	39
POLINOX®-Unitized Wheels	
■ Unitized Wheels PNER	40
■ POLINOX®-Set PNER	41
■ Unitized Discs PNER	41
Short Abrasive Belts	
■ Felt Type	42
Felt Points	
■ Felt Fan Grinders	43
Felt Discs	
■ Felt Flap Discs	43
Catalogue 206	
Combination Abrasive Wheels DUODISC®, Universal Line PS-FORTE	44
Reinforced Grinding Wheels WHISPER, Special Line SG-PLUS	45
Grinding Discs CC-GRIND®, Performance Line SG	46
Grinding Discs CC-GRIND®-SOLID, Performance Line SG	47
POLIFAN® Flap Discs, Universal Line PSF	48
■ Type PSF ZIRKON	

Content	Page
POLIFAN® Flap Discs, Performance Line SG	
■ Type SG ZIRKON	49
■ Type SG A-COOL	50
POLIFAN® Flap Discs, Special Line SGP	
■ Type SGP ZIRKON-STRONG	51
■ Type SGP CO-STRONG-FREEZE	52
■ Type SGP ZIRKON-CURVE	53
■ Type SGP CO-CURVE	54
■ Type SGP CURVE-ALU	54
Cut-Off Wheels, Performance Line SG-ELASTIC	
■ Aluminium/Non-ferrous metals	55
■ Steel/INOX/Cast iron/Non-ferrous metals	56
Cut-Off Wheels X-SLIM, Special Line SG-PLUS	57
■ INOX	
Catalogue 207	
Stationary Cut-Off Wheels, Universal Line PS-FORTE, CHOPSAW	58
Catalogue 208	
Wheel Brushes with Arbor Hole, Individual Filament Type Nylon, Performance Line SG	59
Wheel Brushes with Arbor Hole, Individual Filament Type Plastic Ceramic Grain CO, Special Line SGP	60
Deburring Brushes, Individual Filament Type Plastic Ceramic Grain CO, Special Line SGP	60
Mounted Wheel Brushes, Individual Filament Type Plastic Ceramic Grain CO, Special Line SGP	61
Disc Brushes	
Plastic Ceramic Grain CO, Special Line SGP	61
Plastic (SiC), Performance Line SG	62
Wheel Brushes for Angle Grinders, Individual Filament Type Steel Wire, Performance Line SG	63
Mounted Pencil Brushes, Knotted Type Steel Wire/Stainless Steel (INOX), Performance Line SG	64
Mounted Wheel Brushes, Individual Filament Type Steel Wire/Stainless Steel (INOX)/Plastic (SiC), Performance Line SG	65-66
Mounted Flaring Cup Brushes, Individual Filament Type Steel Wire/Stainless Steel (INOX), Performance Line SG	67
Brushes INOX-TOTAL Stainless Steel (INOX), Special Line SGP	68
POS Packed Brushes	69-70
Steel Wire/Stainless Steel (INOX)/Plastic (SiC), Performance Line SG	
Catalogue 209	
Straight Grinder PGAS 2/800 E	71
Straight Grinder PGAS 1/550	72
Straight Grinder PGAS 4/350 E	73
Angle Grinder PWAS 13/120 AVH	74
Drum Grinder UWER 15/40 A SI D19	75
Electric Fillet Weld Grinder KNER 5/34 V-SI 230 V	76
Multi-Speed Machine Maxi Mammoth Electronic and Accessories	77
Flexible Shaft 4 PST-T, 7 PST-T	78
Anti-Vibration Handle SENSOHANDLE	79



People are at the focus of all the processes that a hand-guided tool from PFERD passes through during its creation. This applies from research and development right through to production of the commercially mature product.

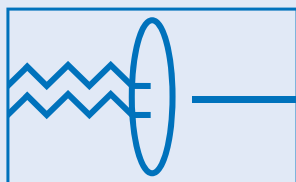
The orientation towards the most economic cost-effectiveness of the tools for customers is one of the natural main targets of a high-quality manufacturer. The focus of all the jobs the PFERD brand has to perform is on the user.

Tough working conditions, rough applications and high physical demands characterize the world of tool users. Whether they work in a foundry or shipyards, at the workbench or outdoors: the working conditions, the multitude of applications and requirements make more and more demands of the professionals at the tools. The task of having to produce a perfect working result under extreme deadline pressure determines the day's routine. With retirement starting later and later, people work for significantly longer than used to be the case.

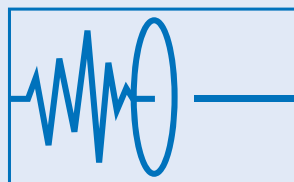
This leads to changes in requirements of the tools used. Tool selection affects the working situation of the user and his complete working environment. It not only has a great influence on the most economical problem solution, it also has a major influence on the **health, safety** and **comfort** of the tool user.

To be able to fulfil these increased requirements, PFERDERGONOMICS supplies solutions for

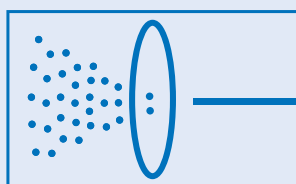
- Lower vibrations
- Reduced noise
- Less dust development
- Optimized haptics at work



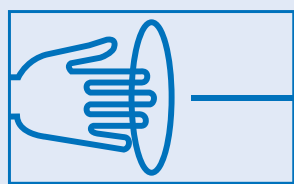
Vibration Filter



Noise Filter



Emission Filter



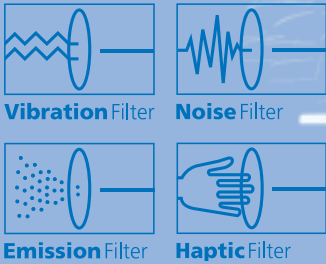
Haptic Filter

Immediately recognize in which areas our tools can be of benefit to you. Tool innovations from PFERD are marked by our PFERDERGONOMICS pictograms.

Alongside premium tools, **PFERD** offers you specially developed protective equipment to reduce health-related loads at the workplace, increase work safety and raise the standard of working comfort. Our versatile range of all-round support will show you solutions for making work easier and optimizing your working environment:

PFERDERGONOMICS:

The use of innovative solutions for less vibrations, less noise, less dust and better haptics.



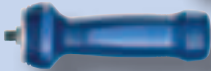
PFERD-ERGOCHECK:

Free analysis of working processes and loads on site. Comparison of tools in applications. Disclosure of potentials for improvement.

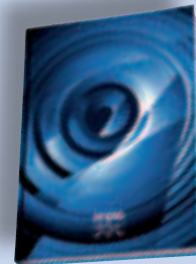
Option:

PFERD-ERGOSCAN:

Detailed measurement of all ergonomic loads on site. Scientific evaluation.



- Reducing health-related loads at the workplace**
- Increasing occupational safety**
- Meeting standards and guidelines**
- Raising the level of working comfort**



PFERD Tool Manual

The fast way to the best tool.

PFERD support:

- Innovative high-performance tools
 - + Individual, directed support
 - + Correct drive selection
 - + User's skills
-
- = Optimum, most efficient result**

Do the ERGOCHECK!

Your PFERD consultant and PFERD partner retailer will visit you on-site. The tools, drives and working processes will be looked at with respect to ergonomics, safety and health. The tests will be carried out on a workpiece.

The **ERGOCHECK** will certainly pay off for you, because you receive substantiated specialist advice and an assessment which points out important potentials for improvement. **PFERD offers you the ERGOCHECK free.**

New in the PFERD Product Line 201

Chain Saw Sharpeners CHAIN SHARP®

Chain saw sharpeners CHAIN SHARP® CS-X



The new chain saw sharpener CHAIN SHARP® CS-X is excellent for the manual sharpening of saw chains. Saw tooth and depth gauge are sharpened in one work step.

Manual sharpening saves costs, is economical and goes much easier on material than mechanical sharpening. Sharpening with CHAIN SHARP® CS-X guarantees longer durability and use of the saw chain.

Each chain saw sharpener consists of the following:

- Sharpening device,
- depth gauge file and
- 2 chain saw files.

Available in four different types.



Different sharpeners may be needed, depending on saw chain dimensions.

Advantages:

- No time-consuming conversion, change from left to right tooth by turning the device.
- Blunt files are simply replaced through the opening at the side. All three files can be changed quickly and easily.
- The correct installation of the file is always guaranteed.
- Symbols for saw, saw tooth and arrows for the file direction explain the use of the tool.

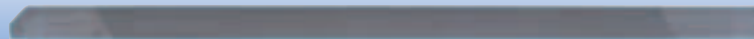
The chain saw sharpener is supplied with extensive operating instructions in a transparent, reusable plastic pocket to protect against damage and dirt. It is visible to the customer from the outside.

Ordering example:
EAN 4007220**835913**
CS-X-4,0

Order No.	EAN 4007220	Suitable for chainsaw file dia. [mm]	Suitable depth gauge file		
N! CS-X-4,0	835913	4,0	4132	1	0,330
N! CS-X-4,8	835920	4,8	4132	1	0,350
N! CS-X-5,16	835937	5,16	4132	1	0,360
N! CS-X-5,5	835944	5,5	4132	1	0,370



Depth Gauge Files

Depth gauge files for CS-X



Rectangular file, cut on two sides. Matching the appropriate chain saw sharpeners.

Ordering example:
EAN 4007220**831335**
4132 200 mm

Order No.	Length [mm]	Length [inch]	EAN 4007220	Cross-section [mm]	Cross-section [inch]	Suitable for		
N! 4132	200	8	831335	9 x 6,0	23/64 x 15/64	CS-X	10	0,800



Change from left to right tooth by turning the device.



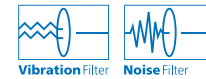
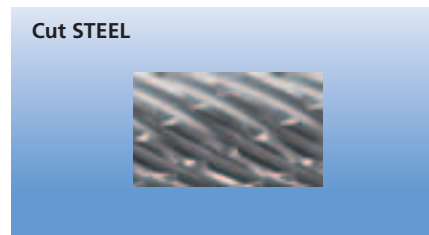
Cut STEEL

With its innovative cut STEEL, PFERD has developed unique burrs for machining steel and cast steel, that are distinguished by a tangible aggressiveness with good guidability. Thus they ensure safe and precise work.

Their extremely high stock removal performance makes these burrs with cut STEEL impressive, with significant time savings and high economic value.

Advantages

- Tangible aggressiveness, large chips and very good chip removal through the innovative tooth geometry.
- Significant time savings through the extremely high stock removal performance.
- Protection of the workpiece and tool through much lower thermal loads.
- Comfortable and ergonomic working through quieter operation with reduced vibration and less noise.



Recommended rotational speed range [RPM]

To determine the recommended cutting speed [m/min], please proceed as follows:

- 1 Select the material group that is to be processed.
- 2 Determine the type of application.
- 3 Select the cut.
- 4 Establish the cutting speed range.

To determine the recommended rotational speed [RPM], please proceed as follows:

- 5 Select the required burr diameter.
- 6 The cutting speed range and burr diameter determine the rotational speed range [RPM].

1 Material groups		2 Application	3 Cut	4 Cutting speed
Steel, cast steel	Non-hardened, non-heat treated steels up to 1200 N/mm ² (< 38 HRC)	Construction steels, carbon steels, tool steels, non-alloyed steels, case-hardened steels, cast steels	STEEL	450 - 750 m/min
	Hardened, heat-treated steels exceeding 1200 N/mm ² (> 38 HRC)	Tool steels, tempering steels, alloyed steels, cast steels		

Example:

TC burr, cut STEEL,
burr dia. 12 mm.

Cutting speed: 450-750 m/min

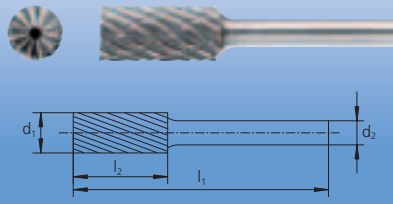
Rotational speed: 12.000-20.000 RPM

5 Dia. [mm]	6 Cutting speed [m/min]	
	450	750
	Rotational speed [RPM]	
6	24.000	40.000
8	18.000	30.000
10	14.000	24.000
12	12.000	20.000

New in the PFERD Product Line 202

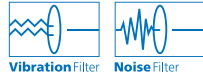
TC Burrs STEEL Cut




Cylindrical shape ZYA Cylindrical shape with end cut ZYAS



Cylindrical shape burr according to DIN 8032, shape ZYAS with circumferential and end cut.

Ordering example:
EAN 4007220**937198**
ZYA 0616/6 STEEL



Order No.	Cut STEEL 	Shank dia. d_2 [mm]	Burr dia. x length $d_1 \times l_2$ [mm]	Overall length l_1 [mm]	Recom. speed [RPM]		
EAN 4007220							

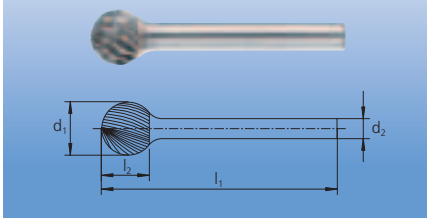
Shank dia. 6 mm without end cut

N! ZYA 0616/6	937198	6	6 x 16	55	24.000 - 40.000	1	23
N! ZYA 0820/6	937211	6	8 x 20	60	18.000 - 30.000	1	24
N! ZYA 1020/6	937235	6	10 x 20	60	14.000 - 24.000	1	32
N! ZYA 1225/6	937242	6	12 x 25	65	12.000 - 20.000	1	60

Shank dia. 6 mm with end cut

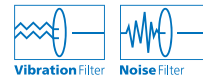
N! ZYAS 0616/6	937259	6	6 x 16	55	24.000 - 40.000	1	23
N! ZYAS 0820/6	937266	6	8 x 20	60	18.000 - 30.000	1	24
N! ZYAS 1020/6	937310	6	10 x 20	60	14.000 - 24.000	1	32
N! ZYAS 1225/6	937341	6	12 x 25	65	12.000 - 20.000	1	60




Ball shape KUD



Ball shape burr according to DIN 8032.

Ordering example:
EAN 4007220**936832**
KUD 0605/6 STEEL



Order No.	Cut STEEL 	Shank dia. d_2 [mm]	Burr dia. x length $d_1 \times l_2$ [mm]	Overall length l_1 [mm]	Recom. speed [RPM]		
EAN 4007220							

Shank dia. 6 mm

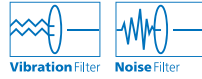
N! KUD 0605/6	936832	6	6 x 5	45	24.000 - 40.000	1	18
N! KUD 0807/6	936849	6	8 x 7	47	18.000 - 30.000	1	14
N! KUD 1009/6	936863	6	10 x 9	49	14.000 - 24.000	1	17
N! KUD 1210/6	936870	6	12 x 10	51	12.000 - 20.000	1	25



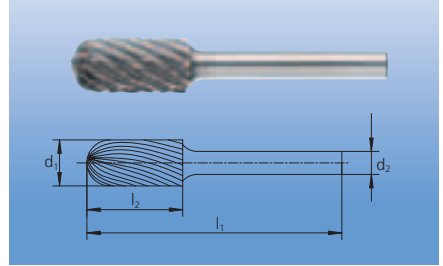





Cylindrical shape burr with radius end according to DIN 8032.

Ordering example:
EAN 4007220937129
WRC 0616/6 STEEL



Cylindrical shape with radius end WRC



Order No.	Cut STEEL	Shank dia. d ₂ [mm]	Burr dia. x length d ₁ x l ₂ [mm]	Overall length l ₁ [mm]	Recom. speed [RPM]		
							
	EAN 4007220						

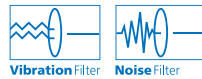
Shank dia. 6 mm

N! WRC 0616/6	937129	6	6 x 16	55	24.000 - 40.000	1	22
N! WRC 0820/6	937150	6	8 x 20	60	18.000 - 30.000	1	25
N! WRC 1020/6	937174	6	10 x 20	60	14.000 - 24.000	1	29
N! WRC 1225/6	936696	6	12 x 25	65	12.000 - 20.000	1	49

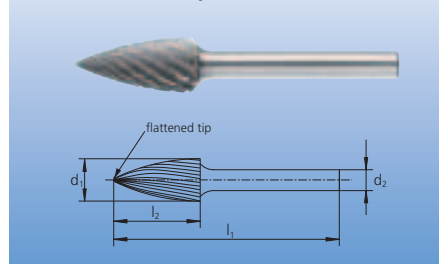





Pointed tree shape burr according to DIN 8032, flattened tip.

Ordering example:
EAN 4007220937013
SPG 1020/6 STEEL



Pointed tree shape SPG



Order No.	Cut STEEL	Shank dia. d ₂ [mm]	Burr dia. x length d ₁ x l ₂ [mm]	Overall length l ₁ [mm]	Recom. speed [RPM]		
							
	EAN 4007220						

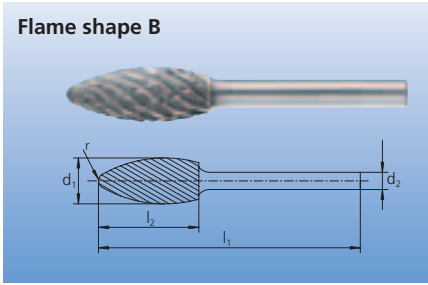
Shank dia. 6 mm

N! SPG 0618/6	936979	6	6 x 18	55	24.000 - 40.000	1	21
N! SPG 0820/6	936993	6	8 x 20	60	18.000 - 30.000	1	18
N! SPG 1020/6	937013	6	10 x 20	60	14.000 - 24.000	1	23
N! SPG 1225/6	937082	6	12 x 25	70	12.000 - 20.000	1	46

New in the PFERD Product Line 202

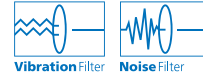
TC Burrs STEEL Cut




Flame shape B



Flame shape burr according to ISO 7755/8.

Ordering example:
EAN 4007220936719
B 0820/6 STEEL

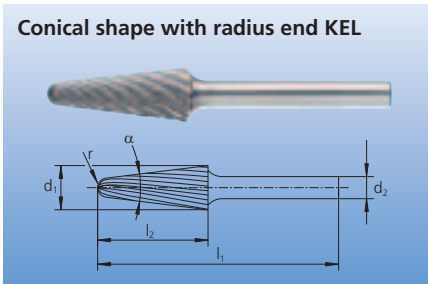


Order No.	Cut STEEL	Shank dia. d ₂ [mm]	Burr dia. x length d ₁ x l ₂ [mm]	Overall length l ₁ [mm]	Radius r [mm]	Recom. speed [RPM]		
	 EAN 4007220							

Shank dia. 6 mm

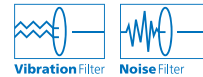
N! B 0820/6	936719	6	8 x 20	60	1,5	18.000 - 30.000	1	18
N! B 1230/6	936764	6	12 x 30	70	2,1	12.000 - 20.000	1	53




Conical shape with radius end KEL



Conical shape burr with radius end according to DIN 8032.

Ordering example:
EAN 4007220936818
KEL 1230/6 STEEL

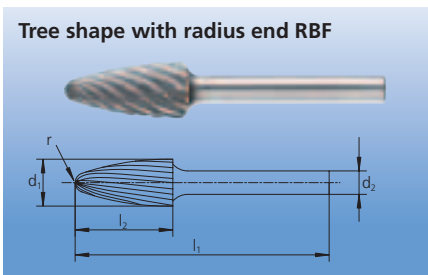


Order No.	Cut STEEL	Shank dia. d ₂ [mm]	Burr dia. x length d ₁ x l ₂ [mm]	Overall length l ₁ [mm]	Angle α	Radius r [mm]	Recom. speed [RPM]		
	 EAN 4007220								

Shank dia. 6 mm

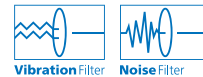
N! KEL 1020/6	936771	6	10 x 20	60	14°	2,9	18.000 - 30.000	1	23
N! KEL 1230/6	936818	6	12 x 30	70	14°	2,6	12.000 - 20.000	1	54




Tree shape with radius end RBF



Tree shape burr according to DIN 8032.

Ordering example:
EAN 4007220936887
RBF 0618/6 STEEL



Order No.	Cut STEEL	Shank dia. d ₂ [mm]	Burr dia. x length d ₁ x l ₂ [mm]	Overall length l ₁ [mm]	Radius r [mm]	Recom. speed [RPM]		
	 EAN 4007220							

Shank dia. 6 mm

N! RBF 0618/6	936887	6	6 x 18	55	1,5	24.000 - 40.000	1	21
N! RBF 0820/6	936900	6	8 x 20	60	1,2	18.000 - 30.000	1	18
N! RBF 1020/6	936924	6	10 x 20	60	2,5	14.000 - 24.000	1	24
N! RBF 1225/6	936931	6	12 x 25	65	2,5	12.000 - 20.000	1	47



TC burrs with HC-FEP coating are an advanced development of the existing PFERD coating HC-FE.

The coating stands out due to its extreme hardness and excellent thermal and chemical resistance.

This increases performance and significantly reduces wear in manual and stationary use. TC burrs with HC-FEP coating are high-power tools which always meet the continually increasing demands made on modern production technology.

Advantages

HC-FEP coating for iron and steel materials:

- Extremely versatile coating for steel and cast iron.
- Extremely hard and wear-resistant.
- Effective chip flow thanks to improved gliding properties.
- Increase in productivity thanks to use in higher speed range.
- Extremely tough coating.
- Extremely temperature-resistant.

Recommended rotational speed range [RPM]

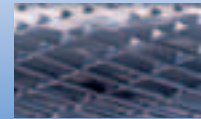
To determine the recommended cutting speed [m/min], please proceed as follows:

- 1 Select the material group that is to be processed.
- 2 Determine the type of application.
- 3 Select the cut.
- 4 Establish the cutting speed range.

To determine the recommended rotational speed [RPM], please proceed as follows:

- 5 Select the required burr diameter.
- 6 The cutting speed range and burr diameter determine the rotational speed range [RPM].

HC-FEP coating for iron and steel materials



1 Material groups		2 Application	3 Cut	Coating	4 Cutting speed
Steel, cast steel	Non-hardened, non-heat treated steels up to 1200 N/mm ² (< 38 HRC)	Construction steels, carbon steels, tool steels, non-alloyed steels, case-hardened steels, cast steels	Coarse machining = high stock removal	HC-FEP	450 - 600 m/min
	Hardened, heat-treated steels exceeding 1200 N/mm ² (> 38 HRC)	Tool steels, tempering steels, alloyed steels, cast steels		HC-FEP	250 - 350 m/min
Cast iron	Grey cast iron, white cast iron	Cast iron with flake graphite EN-GJL (GG), with nodular graphite cast iron EN-GJS (GGG), white annealed cast iron EN-GJMW (GTW), black cast iron EN-GJMB (GTS)	Coarse machining = high stock removal	HC-FEP	450 - 600 m/min

Example:

TC burr, cut 3 PLUS, HC-FEP, burr dia. 12 mm.

Coarse machining of non-hardened, non-heat-treated steels.

Cutting speed: 450-600 m/min

Rotational speed: 12.000-16.000 RPM

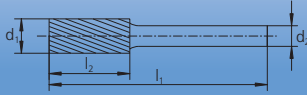
5 Dia. [mm]	6 Cutting speed [m/min]				
	250	300	350	450	600
	Rotational speed [RPM]				
6	13.000	16.000	19.000	24.000	32.000
10	8.000	10.000	12.000	14.000	19.000
12	7.000	8.000	9.000	12.000	16.000

New in the PFERD Product Line 202

TC Burrs HICOAT® – Coating HC-FEP






Cylindrical shape ZYA



Cylindrical shape burr according to DIN 8032 with circumferential and end cut conforming to DIN 8033.

Ordering example:
EAN 4007220**835548**
ZYA 0616/6 C3 PLUS HC-FEP

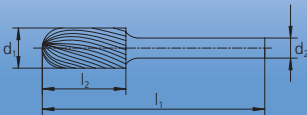


Order No.	Cut 3 PLUS 	Coating	Coating colour	Shank dia. d_2 [mm]	Burr dia. x length $d_1 \times l_2$ [mm]	Overall length l_1 [mm]		
	EAN 4007220							

Shank dia. 6 mm




N!	ZYA 0616/6	835548	HC-FEP	violet-grey	6	6 x 16	55	1	26
N!	ZYA 1225/6	835555	HC-FEP	violet-grey	6	12 x 25	65	1	60

Cylindrical shape with radius end WRC



Cylindrical shape burr with radius end burr according to DIN 8032 with cut conforming to DIN 8033.

Ordering example:
EAN 4007220**835562**
WRC 0616/6 C3 PLUS HC-FEP

Order No.	Cut 3 PLUS 	Coating	Coating colour	Shank dia. d_2 [mm]	Burr dia. x length $d_1 \times l_2$ [mm]	Overall length l_1 [mm]		
	EAN 4007220							

Shank dia. 6 mm

N!	WRC 0616/6	835562	HC-FEP	violet-grey	6	6 x 16	55	1	26
N!	WRC 1225/6	835579	HC-FEP	violet-grey	6	12 x 25	65	1	57




Ball shape KUD



Ball shape burr according to DIN 8032 with cut conforming to DIN 8033.

Ordering example:
EAN 4007220**835586**
KUD 0605/6 C3 PLUS HC-FEP



Order No.	Cut 3 PLUS 	Coating	Coating colour	Shank dia. d_2 [mm]	Burr dia. x length $d_1 \times l_2$ [mm]	Overall length l_1 [mm]		
	EAN 4007220							

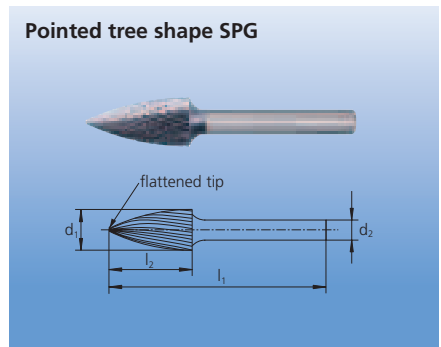
Shank dia. 6 mm



N!	KUD 0605/6	835586	HC-FEP	violet-grey	6	6 x 5	45	1	21
N!	KUD 1009/6	835593	HC-FEP	violet-grey	6	10 x 9	49	1	20
N!	KUD 1210/6	835609	HC-FEP	violet-grey	6	12 x 10	45	1	28



Pointed tree shape burr according to DIN 8032 with cut conforming to DIN 8033, flattened tip.

Ordering example:
 EAN 4007220**835630**
 SPG 0618/6 C3 PLUS HC-FEP



Order No.	Cut 3 PLUS 	Coating	Coating colour	Shank dia. d ₂ [mm]	Burr dia. x length d ₁ x l ₂ [mm]	Overall length l ₁ [mm]		
	EAN 4007220							

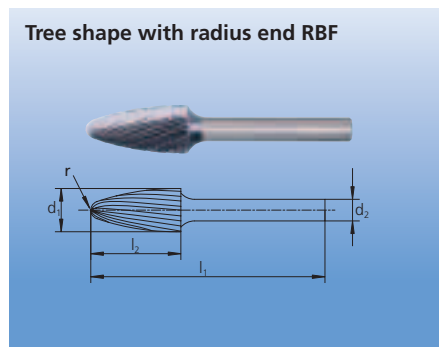
Shank dia. 6 mm




N!	SPG 0618/6	835630	HC-FEP	violet-grey	6	6 x 18	55	1	23
N!	SPG 1225/6	835654	HC-FEP	violet-grey	6	12 x 25	65	1	39



Tree shape burr according to DIN 8032 with cut conforming to DIN 8033.

Ordering example:
 EAN 4007220**835616**
 RBF 0618/6 C3 PLUS HC-FEP



Order No.	Cut 3 PLUS 	Coating	Coating colour	Shank dia. d ₂ [mm]	Burr dia. x length d ₁ x l ₂ [mm]	Overall length l ₁ [mm]	Radius r [mm]		
	EAN 4007220								

Shank dia. 6 mm

N!	RBF 0618/6	835616	HC-FEP	violet-grey	6	6 x 18	55	1,5	1	23
N!	RBF 1225/6	835623	HC-FEP	violet-grey	6	12 x 25	65	2,5	1	43

New in the PFERD Product Line 202

TC Burrs for Tough Applications



The 3R and 3RS cuts represent a new PFERD product line designed especially for tough operating conditions in dockyards, foundries and on steel constructions.

Advantages

- Innovative, special cuts providing exceptional impact resistance.
- These extremely robust, high-performance cut patterns minimise tooth chipping/breakage, splintering and burr head failures.
- The 3R and 3RS cuts can be used on materials up to 55 HRC.
- These products can also be used at low speeds.

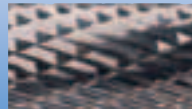
- Their extremely high impact resistance means that they are perfectly suited for use as long shank variants. Available as special products with 150 or 200 mm shaft length.
- Developed specifically for applications involving high impact loads, the new 3R and 3RS cuts are the latest addition to the existing PFERD range.

Application examples

- High-impact applications due to long shank design.
- Heavy-duty applications, due to angled working.
- High angle of surface contact.
- Milling of narrow contours.

Cut 3R

- Coarse, aggressive machining, with high stock removal.



Cut 3RS

- Coarse machining, with smooth milling performance.



Recommended rotational speed range [RPM]

To determine the recommended cutting speed [m/min], please proceed as follows:

- 1 Select the material group that is to be machined.
- 2 Determine the type of application.
- 3 Select the cut.
- 4 Establish the cutting speed range.

To determine the recommended rotational speed [RPM], please proceed as follows:

- 5 Select the required burr diameter.
- 6 The cutting speed range and the burr diameter determine the recommended rotational speed range [RPM].

1 Material groups		2 Application	3 Cut	4 Cutting speed
Steel, cast steel	Non-hardened, non-heat treated steels up to 1200 N/mm ² (< 38 HRC)	Construction steels, carbon steels, tool steels, non-alloyed steels, case-hardened steels, cast steels	3R	250 - 600 m/min
	Hardened, heat-treated steels exceeding 1200 N/mm ² (> 38 HRC)	Tool steels, tempering steels, alloyed steels, cast steels	3RS	
Non-ferrous metals	High-temperature resistant materials	Nickel based alloys, cobalt based alloys (aircraft engine and turbine construction)	3R	250 - 350 m/min
			3RS	
Cast iron	Grey cast iron, white cast iron	Cast iron with flake graphite EN-GJL (GG), with nodular graphite cast iron EN-GJS (GGG), white annealed cast iron EN-GJMW (GTW), black cast iron EN-GJMB (GTS)	3R	250 - 450 m/min
			3RS	
		Coarse machining = high stock removal with impact load	3R	250 - 600 m/min
		Coarse machining = high stock removal with impact load	3RS	

Example:

TC burr, cut 3R,
burr dia. 12 mm.
Coarse machining of non-hardened, non-heat treated steels.
Cutting speed: 250-600 m/min
Rotational speed: 7.000-16.000 RPM

5 Dia. [mm]	6 Cutting speed [m/min]			
	250	350	450	600
	Rotational speed [RPM]			
8	10.000	14.000	18.000	24.000
10	8.000	11.000	14.000	19.000
12	7.000	9.000	12.000	16.000
16	5.000	7.000	9.000	12.000



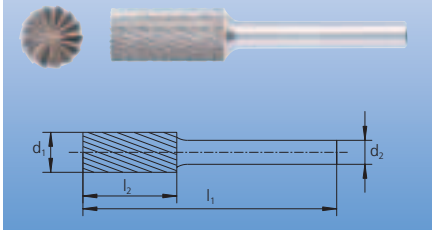
Cylindrical shape burr according to DIN 8032 with circumferential and end cut.

Application:
Interior contour work, i.e., peripheral and face milling

Ordering example:
EAN 40072207**69997**
ZYAS 0820/6 C3R

Please state required cut.

Cylindrical shape ZYA
Cylindrical shape with end cut ZYAS



Order No.	Cut		Shank dia. d ₂ [mm]	Burr dia. x length d ₁ x l ₂ [mm]	Overall length l ₁ [mm]		
	3R	3RS					
EAN 4007220							

Shank dia. 6 mm without end cut

N!	ZYA 0820/6	895504	-	6	8 x 20	60	1	25
N!	ZYA 1020/6	895658	-	6	10 x 20	60	1	25
N!	ZYA 1225/6	895665	895672	6	12 x 25	65	1	33

Shank dia. 6 mm with end cut

	ZYAS 0820/6	769997	-	6	8 x 20	60	1	25
	ZYAS 0820/6	769997	-	6	8 x 20	60	1	25
	ZYAS 1020/6	770023	-	6	10 x 20	60	1	33
N!	ZYAS 1225/6	869109	-	6	12 x 25	65	1	57

Shank dia. 8 mm with end cut

	ZYAS 1225/8	770054	-	8	12 x 25	65	1	56
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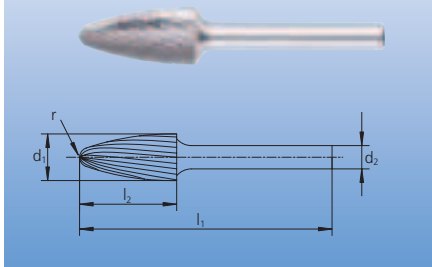
Tree shape burr according to DIN 8032.

Application:
Work on narrow workpiece contours

Ordering example:
EAN 40072207**70191**
RBF 0820/6 C3R

Please state required cut.

Tree shape with radius end RBF



Order No.	Cut		Shank dia. d ₂ [mm]	Burr dia. x length d ₁ x l ₂ [mm]	Overall length l ₁ [mm]	Radius r [mm]		
	3R	3RS						
EAN 4007220								

Shank dia. 6 mm

	RBF 0820/6	770191	-	6	8 x 20	60	1,2	1	21
	RBF 1020/6	770207	-	6	10 x 20	60	2,5	1	28
	RBF 1225/6	770214	770238	6	12 x 25	65	2,5	1	43
N!	RBF 1625/6	869116	-	6	16 x 25	65	4,9	1	65

Shank dia. 8 mm

	RBF 1225/8	770221	770245	8	12 x 25	65	2,5	1	49
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New in the PFERD Product Line 202

TC Burrs for ALU/Non-Ferrous Metals



PFERD has further developed the ALU cut especially for stock removal of aluminium. This cut is characterised by its high stock removal performance on all aluminium materials.

Note

You can find the coated tungsten carbide ALU cut under tungsten carbide burrs HICOAT®, coating HC-NFE.

Please refer to the PRAXIS "PFERD Tools for Use on Aluminium" for instructions and further information on working with aluminium.

Advantages of ALU cut

- Reduces material adhesion.
- Long tool life.
- Large chip volume and high stock removal performance.
- Can be used with cutting rates of up to 1.100 m/min.
- Smooth running.

Application examples

- Contouring.
- Bore deburring.
- Milling in preparation of build-up welding.
- Suitable for milling work (deburring, weld dressing, contouring etc.) Also suitable for work on small and miniature components in mould, machine and model construction.

Advantages of ALU PLUS cut

- Mainly used for coarse stock removal of non-ferrous metals, brass, copper, hard aluminium alloys, plastics, fibre-reinforced plastics and rubber.

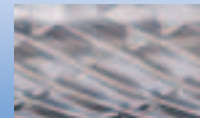
Recommendations for use

- The use of grinding oil prevents chips adhering during work on soft aluminium alloys. This increases the tool life and improves the finish of the workpiece.
- Refer to catalogue 204 for detailed information and order data for grinding oil 412 ALU.

Cut ALU



Cut ALU PLUS



Recommended rotational speed range [RPM]

To determine the recommended cutting speed [m/min], please proceed as follows:

- 1 Select the material group that is to be processed.
- 2 Determine the type of machining.
- 3 Select the cut.
- 4 Establish the cutting speed range.

To determine the recommended rotational speed [RPM], please proceed as follows:

- 5 Select the required burr diameter.
- 6 The cutting speed range and the burr diameter determine the recommended rotational speed range [RPM].

1 Material groups			2 Application	3 Cut	4 Cutting speed
Non-ferrous metals	Soft non-ferrous metals	Alu-alloys, brass, copper, zinc	Coarse machining = high stock removal	ALU	600 - 1.100 m/min
			Fine machining = low stock removal	ALU PLUS	400 - 500 m/min
	Hard non-ferrous metals	Bronze, titanium, hard aluminium alloys (high Si content)	Coarse machining = high stock removal	ALU	600 - 1.100 m/min
			Fine machining = low stock removal	ALU PLUS	400 - 500 m/min
Plastics and other materials	Fibre-reinforced plastics (GRP/CRP) thermoplastics, hard rubber	Coarse machining = high stock removal	ALU	500 - 1.100 m/min	
			ALU PLUS	500 - 900 m/min	
		Fine machining = low stock removal	ALU	500 - 1.100 m/min	

Example:

TC burr, cut ALU, burr dia. 12 mm
Coarse machining of hardened non-ferrous metals, e.g. bronze.
Cutting speed: 600-1.100 m/min

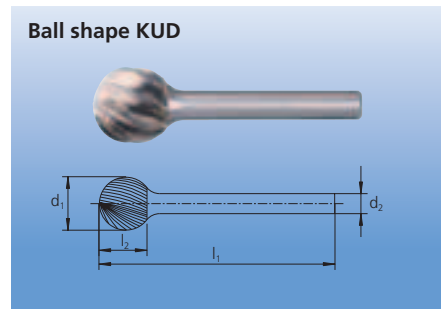
Rotational speed: 16.000-30.000 RPM





5 Dia. [mm]	6 Cutting speed [m/min]				
	400	500	600	900	1.100
	Rotational speed [RPM]				
3	42.000	53.000	64.000	95.000	117.000
6	21.000	27.000	32.000	48.000	59.000
8	16.000	20.000	24.000	36.000	44.000
10	13.000	16.000	19.000	29.000	35.000
12	11.000	13.000	16.000	24.000	30.000
16	8.000	10.000	12.000	18.000	22.000

Ball shape burr according to DIN 8032.

Ordering example:
EAN 4007220533147
KUD 1210/6 C ALU

Please state required cut.



Order No.	Cut		Shank dia. d_2 [mm]	Burr dia. x length $d_1 \times l_2$ [mm]	Overall length l_1 [mm]		
	ALU 	ALU PLUS 					
EAN 4007220							
Shank dia. 3 mm							
KUD 0302/3	803714	-	3	3 x 2	32	1	4
KUD 0605/3	803721	-	3	6 x 5	35	1	4
Shank dia. 6 mm							
KUD 0605/6	N! 869123	-	6	6 x 5	45	1	18
KUD 0807/6	N! 869130	221082	6	8 x 7	47	1	14
KUD 1210/6	533147	533154	6	12 x 10	50	1	25
KUD 1614/6	803998	-	6	16 x 14	54	1	46
Shank dia. 8 mm							
KUD 1210/8	247044	-	8	12 x 10	50	1	32



New in the PFERD Product Line 202

TC Burrs INOX Cut



Cut INOX

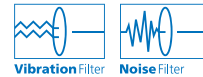
With cut INOX, PFERD has now developed innovative burrs for working stainless steel (INOX). Cut INOX stands out thanks to its extremely high stock removal performance on all austenitic, rust and acid-resistant steels.

Cut INOX



Advantages

- Offers outstanding stock removal performance and tool life thanks to innovative tooth geometry.
- Achieves high-grade quality finishes through optimum chip formation.
- Prevents heat discoloration in the material through low heat development.
- Guarantees comfortable, ergonomic working through smooth running with reduced vibration and less noise.



Recommended rotational speed [RPM]

To determine the recommended cutting speed [m/min], please proceed as follows:

- ❶ Select the material group that is to be processed.
- ❷ Determine the type of machining.
- ❸ Select the cut.
- ❹ Establish the cutting speed range.

To determine the recommended rotational speed [RPM], please proceed as follows:

- ❺ Select the required burr diameter.
- ❻ The cutting speed range and the burr diameter determine the recommended rotational speed range [RPM].

❶ Material groups			❷ Application	❸ Cut	❹ Cutting speed
Stainless steel (INOX)	Rust and acid-resistant steels	Austenitic and ferritic stainless steels	Coarse machining = high stock removal	INOX	450 - 600 m/min
			Fine machining = low stock removal		

Example:

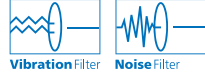
TC burr, cut INOX,
burr dia. 12 mm.
Cutting speed: 450-600 m/min
Rotational speed: 12.000-16.000 RPM

❺ Dia. [mm]	❻ Cutting speed [m/min]	
	450	600
	Rotational speed [RPM]	
3	48.000	64.000
6	24.000	32.000
12	12.000	16.000

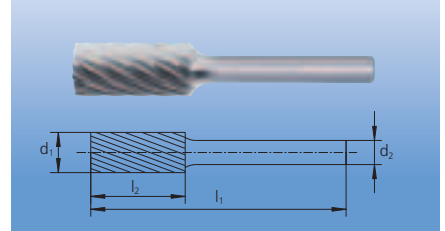





Cylindrical shape burr according to DIN 8032.

Ordering example:
 EAN 4007220**900499**
 ZYA 0616/6 INOX



Cylindrical shape ZYA



Order No.	Cut INOX 	Shank dia. d ₂ [mm]	Burr dia. x length d ₁ x l ₂ [mm]	Overall length l ₁ [mm]	Recom. speed [RPM]		
	EAN 4007220						

Shank dia. 3 mm

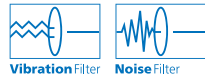
N! ZYA 0313/3	930380	3	3 x 13	43	48.000 - 64.000	1	5
N! ZYA 0613/3	930403	3	6 x 13	43	24.000 - 32.000	1	7

Shank dia. 6 mm

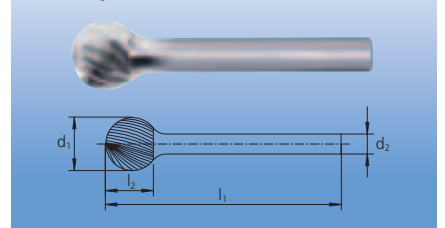
N! ZYA 0616/6	900499	6	6 x 16	55	24.000 - 32.000	1	23
N! ZYA 1225/6	900505	6	12 x 25	65	12.000 - 16.000	1	61




Ball shape burr according to DIN 8032.

Ordering example:
 EAN 4007220**900536**
 KUD 0605/6 INOX



Ball shape KUD



Order No.	Cut INOX 	Shank dia. d ₂ [mm]	Burr dia. x length d ₁ x l ₂ [mm]	Overall length l ₁ [mm]	Recom. speed [RPM]		
	EAN 4007220						

Shank dia. 3 mm

N! KUD 0302/3	930434	3	3 x 2	33	48.000 - 64.000	1	4
N! KUD 0605/3	930441	3	6 x 5	35	24.000 - 32.000	1	4

Shank dia. 6 mm

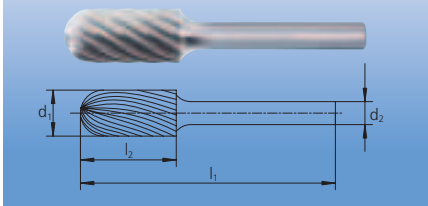
N! KUD 0605/6	900536	6	6 x 5	45	24.000 - 32.000	1	18
N! KUD 1210/6	900543	6	12 x 10	51	12.000 - 16.000	1	25

New in the PFERD Product Line 202

TC Burrs INOX Cut

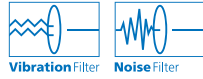





Cylindrical shape with radius end WRC



Cylindrical shape burr with radius end according to DIN 8032.

Ordering example:
EAN 4007220**900512**
WRC 0616/6 INOX



Order No.	Cut INOX 	Shank dia. d ₂ [mm]	Burr dia. x length d ₁ x l ₂ [mm]	Overall length l ₁ [mm]	Recom. speed [RPM]		
EAN 4007220							

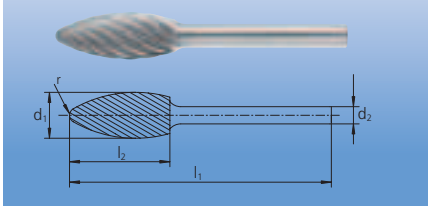
Shank dia. 3 mm

N! WRC 0313/3	930410	3	3 x 13	43	48.000 - 64.000	1	5
N! WRC 0613/3	930427	3	6 x 13	43	24.000 - 32.000	1	5

Shank dia. 6 mm

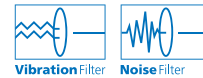
N! WRC 0616/6	900512	6	6 x 16	55	24.000 - 32.000	1	22
N! WRC 1225/6	900529	6	12 x 25	65	12.000 - 16.000	1	57




Flame shape B



Flame shape burr according to ISO 7755/8.

Ordering example:
EAN 4007220**930502**
B 1230/6 INOX

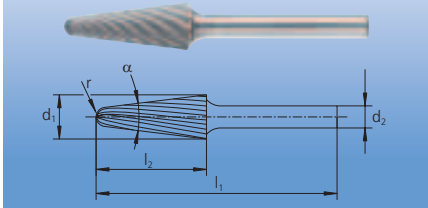


Order No.	Cut INOX 	Shank dia. d ₂ [mm]	Burr dia. x length d ₁ x l ₂ [mm]	Overall length l ₁ [mm]	Radius r [mm]	Recom. speed [RPM]		
EAN 4007220								

Shank dia. 6 mm

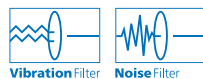
N! B 1230/6	930502	6	12 x 30	70	2,1	12.000 - 16.000	1	52
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Conical shape with radius end KEL



Conical shape burr with radius end according to DIN 8032.

Ordering example:
EAN 4007220**930496**
KEL 1230/6 INOX



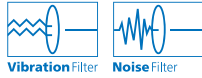
Order No.	Cut INOX 	Shank dia. d ₂ [mm]	Burr dia. x length d ₁ x l ₂ [mm]	Overall length l ₁ [mm]	Angle α	Radius r [mm]	Recom. speed [RPM]		
EAN 4007220									

Shank dia. 6 mm

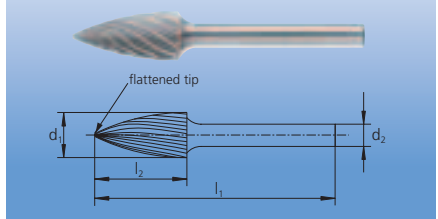
N! KEL 1230/6	930496	6	12 x 30	70	14°	2,6	12.000 - 16.000	1	61
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

Pointed tree shape burr according to DIN 8032.

Ordering example:
EAN 4007220936948
SPG 0618/6 INOX



Pointed tree shape SPG



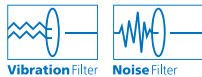
Order No.	Cut INOX 	Shank dia. d ₂ [mm]	Burr dia. x length d ₁ x l ₂ [mm]	Overall length l ₁ [mm]	Recom. speed [RPM]		
EAN 4007220							

Shank dia. 6 mm

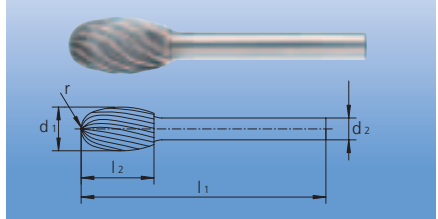
N!	SPG 0618/6 INOX	936948	6	6 x 18	55	24.000 - 32.000	1	19
N!	SPG 1225/6 INOX	936894	6	12 x 25	65	12.000 - 16.000	1	42



Oval shape burr according to DIN 8032.

Ordering example:
EAN 4007220930519
TRE 1220/6 INOX



Oval shape TRE



Order No.	Cut INOX 	Shank dia. d ₂ [mm]	Burr dia. x length d ₁ x l ₂ [mm]	Overall length l ₁ [mm]	Radius r [mm]	Recom. speed [RPM]		
EAN 4007220								

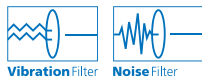
Shank dia. 6 mm

N!	TRE 1220/6	930519	6	12 x 20	60	5,0	12.000 - 16.000	1	43
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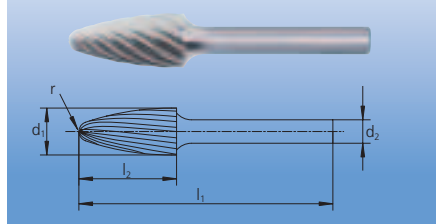




Tree shape burr according to DIN 8032.

Ordering example:
EAN 4007220900550
RBF 0618/6 INOX



Tree shape with radius end RBF



Order No.	Cut INOX 	Shank dia. d ₂ [mm]	Burr dia. x length d ₁ x l ₂ [mm]	Overall length l ₁ [mm]	Radius r [mm]	Recom. speed [RPM]		
EAN 4007220								

Shank dia. 3 mm

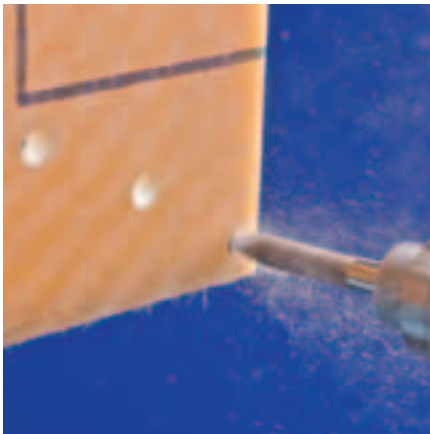
N!	RBF 0313/3	930472	3	3 x 13	43	0,75	48.000 - 64.000	1	5
N!	RBF 0613/3	930489	3	6 x 13	43	1,5	24.000 - 32.000	1	6

Shank dia. 6 mm

N!	RBF 0618/6	900550	6	6 x 18	55	1,5	24.000 - 32.000	1	21
N!	RBF 1225/6	900567	6	12 x 25	65	2,5	12.000 - 16.000	1	47

New in the PFERD Product Line 202

TC Burrs for GRP/CRP



FVK

Suitable for trimming and contour milling of fibre-reinforced plastics GRP and CRP, hard rubber and thermoplastics. Thanks to the high level of concentric accuracy it is suitable for use on stationary machines and hand-held applications.

Cut FVK



FVKS

Similar to the FVK cut. Due to its special tooth design it is suitable for use on machines and robots with high feed rates, as its smooth milling behaviour creates a burr free edge.

Cut FVKS



Tungsten carbide burrs with both FVK and FVKS cuts are suitable for trimming and contour milling of a wide range of glass and carbon-fibre reinforced plastics (GRP/CRP). The end cut (BS) or the center drill (ZBS) allow both drilling and milling work to be carried out.

Advantages

- The special cutting geometry allows high feed rates due to the low resistance.
- These special tungsten carbide burrs can be plunged into solid material, allowing drilling and milling work to be carried out in one working cycle.
- The version with the end cut (BS) is particularly suitable for use on machines and robots.
- The version with the center drill (ZBS) is particularly suitable for use with hand-held tools.

Application examples

- Trimming.
- Contour milling.
- Production of cut-outs.
- Deburring.

Recommendations for use

- When processing thermoplastics, the speed should be set to avoid the material melting and clogging the burr.

Recommended rotational speed range [RPM]

To determine the recommended cutting speed [m/min], please proceed as follows:

- 1 Select the material group that is to be machined.
- 2 Determine the type of application.
- 3 Select the cut.
- 4 Establish the cutting speed range.

To determine the recommended rotational speed [RPM], please proceed as follows:

- 5 Select the required burr diameter.
- 6 The cutting speed range and the burr diameter determine the recommended rotational speed range [RPM].

1 Material groups		2 Application	3 Cut	4 Cutting speed
Plastics and other materials	Fibre-reinforced plastics (GRP/CRP), thermoplastics, hard rubber, wood	Coarse machining = high stock removal	FVK	500 - 900 m/min
		Fine machining = low stock removal	FVKS	

Example:

TC burr, cut FVK,
burr dia. 8 mm.
Coarse machining of plastics.
Cutting speed: 500-900 m/min
Rotational speed: 20.000-36.000 RPM

5 Dia. [mm]	6 Cutting speed [m/min]	
	500	900
	Rotational speed [RPM]	
6	27.000	48.000
8	20.000	36.000

These tungsten carbide burrs for work on GRP (glass fibre reinforced plastic) and CRP (carbon fibre reinforced plastic) are produced for use on fibre reinforced plastics.

These special cut types give extremely high stock removal rates.

The center drill (ZBS) can be plunged into solid material, allowing drilling and milling work to be carried out in one working cycle. It is particularly suitable for use with hand-held tools. The center drill permits safe scoring on almost all surfaces.

Available in two shank diameters and burr dimensions.

Workpiece materials:

Glass and carbon fibre-reinforced (GRP, CRP) plastics

Industry/target group:

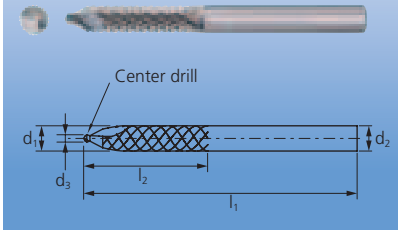
Plastic and rubber processing industry

Ordering example:

EAN 4007220**869048**
ZYA 0625/6 FVK ZBS

Please state required cut.

Tungsten carbide burrs with center drill for GRP and CRP



Order No.	Cut		Shank dia. d_2 [mm]	Center drill dia. d_3 [mm]	Burr dia. x length d_1 x l_2 [mm]	Overall length l_1 [mm]		
	FVK 	FVKS 						
EAN 4007220								
Shank dia. 6 mm with center drill								
N! ZYA 0625/6 ZBS	869048	869055	6	2,5	6 x 30	65	1	26
Shank dia. 8 mm with center drill								
N! ZYA 0825/8 ZBS	869079	869086	8	3	8 x 30	65	1	46



New in the PFERD Product Line 202

TC Burrs PLAST Cut



PLAST with special end cut (BS)

The sturdily designed end cut (BS) is particularly suitable for use on machines and robots.

Cut PLAST



Tungsten carbide burrs with the PLAST cut are perfect for combined drilling and cutting tasks, particularly on less hard glass and carbon-fibre reinforced duroplastics (GRP and CFRP \leq 40 % fibre share).

The straight cut (similar to PKD milling tools) minimizes delamination and fraying.

Also very suitable for machine and robot use.

Advantages

- The special tooth geometry makes high feed speed rates possible at very low cutting forces, particularly on less hard glass and carbon-fibre reinforced duroplastics (GRP and CFRP \leq 40% fibre share).
- The combination of end cut or centre drill with the PLAST cut allows drilling and milling work to be carried out in one work step.

Application examples

- Trimming.
- Contour milling.
- Production of cut-outs.
- Deburring.

PLAST with center drill (ZBS)

The burr version with the centre drill (ZBS) has been particularly developed for manual use. The special geometry of the centre drill makes the safe milling of even concave or convex surfaces possible.

Recommendations for use

- To avoid shuddering and knocking with the danger of the tool breaking and the workpiece becoming damaged, the following must be heeded during trimming: the thickness of the material to be processed must always be smaller than the diameter of the burr.
- **Rule:** If the tool tends to shudder, the speed must be increased. Where fusion is involved the speed must be reduced, as well as the contact pressure if appropriate.

Recommended rotational speed range [RPM]

To determine the recommended cutting speed [m/min], please proceed as follows:

- 1 Select the material group that is to be machined.
- 2 Determine the type of application.
- 3 Select the cut.
- 4 Establish the cutting speed range.

To determine the recommended rotational speed [RPM], please proceed as follows:

- 5 Select the required burr diameter.
- 6 The cutting speed range and the burr diameter determine the recommended rotational speed range [RPM].

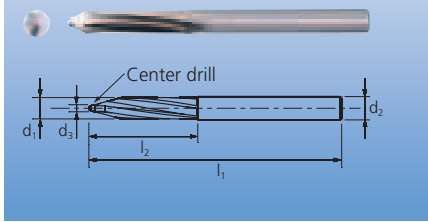
1 Material groups		2 Application	3 Cut	4 Cutting speed
Plastics and other materials	Fibre-reinforced plastics (GRP/CRP), fibre share \leq 40% thermoplastics	Coarse machining = high stock removal	PLAST	500 - 900 m/min
		Fine machining = low stock removal		

Example:

TC burr, cut PLAST,
burr dia. 8 mm.
Coarse machining of plastics.
Cutting speed: 500-900 m/min
Rotational speed: 20.000-36.000 RPM

5 Dia. [mm]	6 Cutting speed [m/min]	
	500	900
	Rotational speed [RPM]	
6	27.000	48.000
8	20.000	36.000

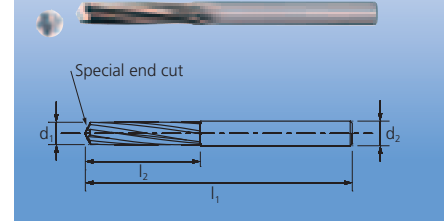
Cylindrical shape ZYA with center drill






Cylindrical shape burr.

Ordering Example:
EAN 4007220**900413**
ZYA 0625/6 PLAST BS

Cylindrical shape ZYA with special end cut



Order No.	Cut PLAST 	Shank dia. d_2 [mm]	Burr dia. x length $d_1 \times l_2$ [mm]	Overall length l_1 [mm]		
EAN 4007220						

TC burrs with special end cut

N!	ZYA 0625/6 BS	900413	6	6 x 25	65	1	26
N!	ZYA 0825/8 BS	900468	8	8 x 25	65	1	46

TC burrs with center drill

N!	ZYA 0625/6 ZBS	900451	6	6 x 25	65	1	26
N!	ZYA 0825/8 ZBS	900475	8	8 x 25	65	1	46



New in the PFERD Product Line 202

TC Micro Burrs

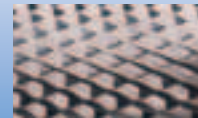


Micro burrs are optimally suitable for both manual and automatic machining tasks. They stand out thanks to the combination of good stock removal and high-quality finish. Almost all materials up to a hardness of 60 HRC can be machined. If higher stock removal is required, micro burrs can be used as support in areas where mounted points are usually used. They work with little vibration.

Application examples

- Finishing.
- Very fine plaster work.
- Corrections in tooling and moulding construction.

Cut MZ



Recommended rotational speed range [RPM]

To determine the recommended cutting speed [m/min], please proceed as follows:

- 1 Select the material group that is to be processed.
- 2 Determine the type of application.
- 3 Select the cut.
- 4 Establish the cutting speed range.

To determine the recommended rotational speed [RPM], please proceed as follows:

- 5 Select the required burr diameter.
- 6 The cutting speed range and burr diameter determine the rotational speed range [RPM].

1 Material groups			2 Application	3 Cut	4 Cutting speed
Steel, cast steel	Non-hardened, non-heat-treated steels up to 1200 N/mm ² (< 38 HRC)	Construction steels, carbon steels, tool steels, non-alloyed steels, case-hardened steels, cast steels	Fine machining = low stock removal	MZ	650 - 750 m/min
	Hardened, heat-treated steels exceeding 1200 N/mm ² (> 38 HRC)	Tool steels, tempering steels, alloyed steels, cast steels			450 - 600 m/min
Stainless steel (INOX)	Rust and acid-resistant steels	Austenitic and ferritic stainless steels	Fine machining = low stock removal	MZ	450 - 600 m/min
Non-ferrous metals	Hard non-ferrous metals	Bronze, titanium, titanium alloys, hard aluminium alloys (high Si content)	Fine machining = low stock removal	MZ	450 - 600 m/min
	High-temperature resistant materials	Nickel based alloys, cobalt based alloys (aircraft engine and turbine construction)			
Cast iron	Grey cast iron, white cast iron	Cast iron with flake graphite EN-GJL (GG), with nodular graphite cast iron EN-GJS (GGG), white annealed cast iron EN-GJMW (GTW), black cast iron EN-GJMB (GTS)	Fine machining = low stock removal	MZ	650 - 750 m/min

Example:

TC micro burr, cut MZ, burr dia. 10 mm.

Fine finish milling of non-hardened, non-tempered steels.

Cutting speed: 650-750 m/min

Rotational speed: 21.000-24.000 RPM

5 Dia. [mm]	6 Cutting speed [m/min]			
	450	600	650	750
	Rotational Speed [RPM]			
2	72.000	95.000	104.000	120.000
3	48.000	64.000	68.000	80.000
4	36.000	48.000	52.000	60.000
6	24.000	32.000	34.000	40.000
8	18.000	24.000	26.000	30.000
10	14.000	19.000	21.000	24.000

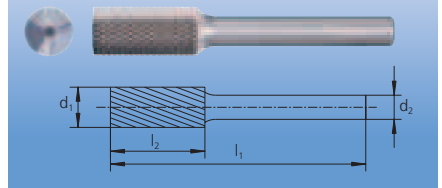


Cylindrical shape burr according to DIN 8032 with circumferential and end cut.

Ordering example:
 EAN 4007220**895511**
 ZYA 0210/3 C MZ



Cylindrical shape ZYA
Cylindrical shape with end cut ZYAS



Order No.	Micro cut MZ EAN 4007220	Shank dia. d ₂ [mm]	Burr dia. x length d ₁ x l ₂ [mm]	Overall length l ₁ [mm]		
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Shank dia. 3 mm without end cut

N!	ZYA 0210/3	895511	3	2 x 10	40	1	4
N!	ZYA 0313/3	895535	3	3 x 13	43	1	5
N!	ZYA 0413/3	895542	3	4 x 13	43	1	5

Shank dia. 6 mm without end cut

N!	ZYA 0616/6	895559	6	6 x 16	55	1	23
N!	ZYA 0820/6	895573	6	8 x 20	60	1	24
N!	ZYA 1020/6	895603	6	10 x 20	60	1	32

Shank dia. 6 mm with end cut

N!	ZYAS 0616/6	895566	6	6 x 16	55	1	23
N!	ZYAS 0820/6	895580	6	8 x 20	60	1	24
N!	ZYAS 1020/6	895610	6	10 x 20	60	1	32

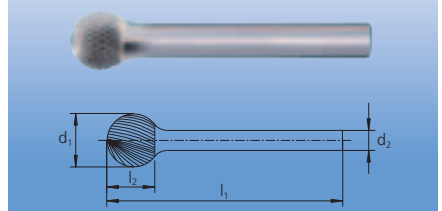


Ball shape burr according to DIN 8032 with special cut.

Ordering example:
 EAN 4007220**895399**
 KUD 021,5/3 C MZ



Ball shape KUD



Order No.	Micro cut MZ EAN 4007220	Shank dia. d ₂ [mm]	Burr dia. x length d ₁ x l ₂ [mm]	Overall length l ₁ [mm]		
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Shank dia. 3 mm

N!	KUD 021,5/3	895399	3	2 x 1,5	32,5	1	3
N!	KUD 0302/3	895405	3	3 x 2	33	1	4
N!	KUD 0403/3	895412	3	4 x 3	34	1	4

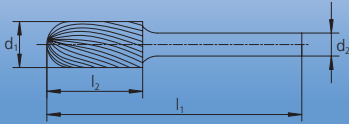
Shank dia. 6 mm

N!	KUD 0605/6	895436	6	6 x 5	35	1	5
N!	KUD 0807/6	895474	6	8 x 7	47	1	14
N!	KUD 1009/6	895481	6	10 x 9	49	1	17

New in the PFERD Product Line 202

TC Micro Burrs




Cylindrical shape with radius end WRC



General-use shape burr (combination of cylindrical and ball shapes). Cylindrical shape burr with radius end according to DIN 8032 with special cut.

Ordering example:
 EAN 4007220**869000**
 WRC 0313/3 C MZ



Order No.	Micro cut MZ  EAN 4007220	Shank dia. d_2 [mm]	Burr dia. x length $d_1 \times l_2$ [mm]	Overall length l_1 [mm]		
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Shank dia. 3 mm

N!	WRC 0313/3	869000	3	3 x 13	43	1	6
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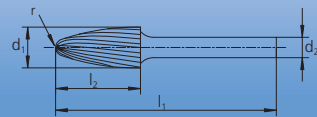
Shank dia. 6 mm

N!	WRC 0616/6	869017	6	6 x 16	55	1	23
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N!	WRC 0820/6	869024	6	8 x 20	60	1	26
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N!	WRC 1020/6	869031	6	10 x 20	60	1	32
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Tree shape with radius end RBF



Tree shape burr with radius end burr according to DIN 8032 with special cut.

Ordering example:
 EAN 4007220**835524**
 RBF 0307/3 C MZ



Order No.	Micro cut MZ  EAN 4007220	Shank dia. d_2 [mm]	Burr dia. x length $d_1 \times l_2$ [mm]	Overall length l_1 [mm]		
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Shank dia. 3 mm

N!	RBF 0307/3	835524	3	3 x 7	37	1	6
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Shank dia. 6 mm

N!	RBF 0618/6	835494	6	6 x 18	55	1	23
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N!	RBF 0820/6	835500	6	8 x 20	60	1	21
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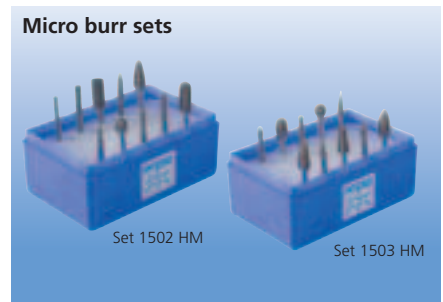
N!	RBF 1020/6	835517	6	10 x 20	60	1	27
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Set 1502 TC contains the most common shapes and dimensions for general applications and requirements with high quality finish.

Contents: 10 TC burrs, 1 piece each:
 ZYA 0210/3 MZ ZYA 0313/3 MZ
 ZYA 0613/3 MZ WRC 0210/3 3 MZ
 WRC 0313/3 MZ WRC 0613/3 MZ
 KUD 0302/3 MZ KUD 0605/3 MZ
 RBF 0307/3 MZ RBF 0613/3 MZ

Set 1503 TC contains special shapes for working components that are difficult to access or components with complex geometries. They produce a high quality finish.

Contents: 10 TC burrs, 1 piece each:
 KUD 0302/3 MZ KUD 0605/3 MZ
 TRE 0307/3MZ TRE 0610/3 MZ
 B 0307/3 MZ B 0613/3 MZ
 SPG 0313/3 MZ SPG 0613/3 MZ
 KEL 0313/3 MZ KEL 0613/3 MZ



Order No.	Micro cut MZ 	Shank dia. [mm]		
	EAN 4007220			

Shank dia. 3 mm

N!	Set 1502 HM	896181	3	1	85
N!	Set 1503 HM	896198	3	1	90

Quick-Mounting System for Hole Saws

PFERD offers a new mounting system for the fast and straightforward use of HSS hole saws. The quick-mounting system and the two three-part adapter sets matched to the hole saw diameters ensure that the HSS hole saws from PFERD can be used easily and conveniently with all standard drive systems.

Recommendation for use:

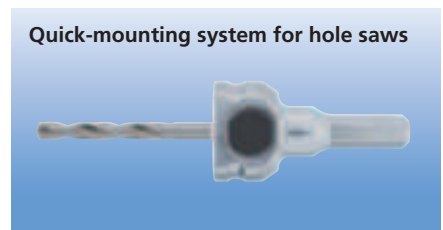
■ The adapters are screwed simply and quickly into the desired hole saw and can then be mounted in the quick-mounting system. After use, the hole saw can be released from the quick-mounting system by pushing a button, without any additional tools being necessary.



Ordering note:

The adapter set AS-PSL 14-30 is available for hole saw diameters from 14-30 mm, and the adapter set AS-PSL 32-152 is available for hole saw diameters from 32-152 mm. Both adapter sets include three individual adapters with the same dimensions.

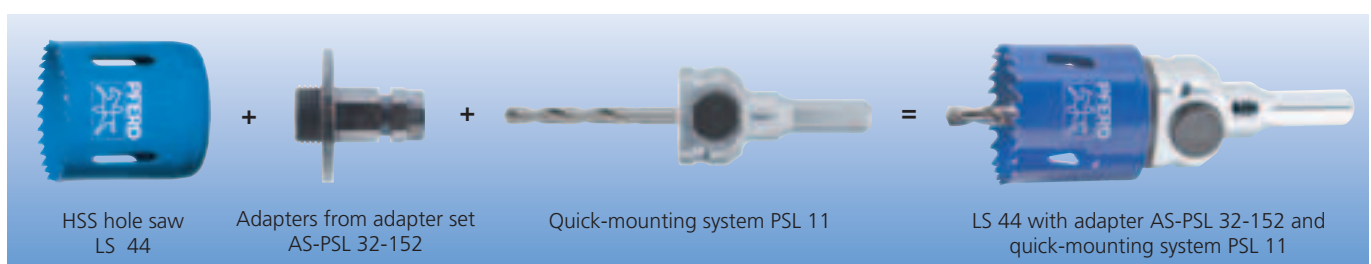
Ordering example:

EAN 40072200**900185**
 Quick-mounting system PSL 11
 EAN 40072200**900215**
 AS-PSL 14-30mm



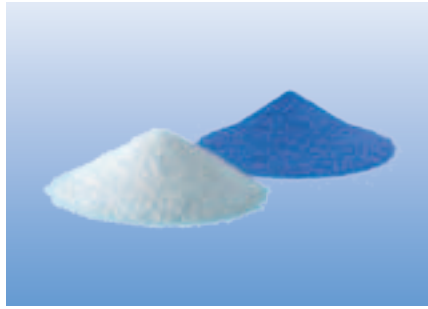
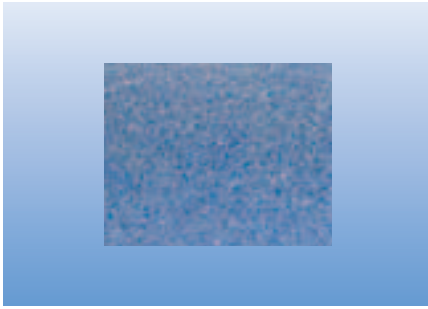
Order No.	EAN 4007220	Suitable for hole saws		
N!	900185	LS 14-152	1	196
N!	900215	LS 14-30	1	32
N!	900192	LS 32-152	1	101

Combination example:



New in the PFERD Product Line 203

Mounted Points, Hardness J



Mounted points in **hardness grade J** are manufactured from a mix of white aluminium oxide and blue ceramic sintered aluminium oxide in a vitrified bond.

The soft bond in combination with the easy to break down, sharp-edged white aluminium oxide and the self-sharpening effect of the microcrystalline sintered aluminium oxide allows extremely high stock removal rates with excellent tool life.

The hardness grade J is perfectly suited for surface work on titanium materials, nickel and cobalt based alloys, steel components and built-up weld deposits.

Advantages

- Cool grinding due to the easy to break down grit mix.
- High stock removal and excellent tool life.
- The self-sharpening qualities of the sintered aluminium oxide guarantee consistent stock removal.

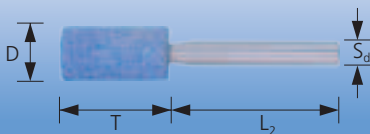
Application examples

- Re-finishing of turbine blades during aero-plane maintenance work.
- Follow-up repair welding in tool and mould construction.
- Grinding of repair welds and turbine blades.

Recommendations for use

- Mounted points in hardness grade J perform best at a cutting speed of 30-50 m/s.
- Suitable tool drives include flexible shafts and electric or air-powered straight grinders.

Hardness J, cylindrical ZY



Safety note:

The maximum permissible tool speed [RPM] relates to the specified unsupported shank length of 10 mm.



Ordering example:

EAN 4007220**802106**
ZY 0306 3 AWCO **80** J 5 V

How to order:

80 = Grit size

Please complete the order no. by adding the grit size.

Order No.	Grit size					Acc. to US shape	S _d x L ₂ [mm]	D x T [mm]	Max. speed [RPM]		
	46	60	80	100	320						
EAN 4007220											

Shank dia. 3 mm

ZY 0105 3 AWCO . . . J 5 V	-	-	-	-	NI 898383	-	3 x 30	1 x 5	140.200	10	18
ZY 1,508 3 AWCO . . . J 5 V	-	-	-	-	NI 898390	-	3 x 30	1,5 x 8	104.700	10	20
ZY 1,708 3 AWCO . . . J 5 V	-	-	-	-	NI 898406	-	3 x 30	1,7 x 8	112.300	10	20
ZY 0205 3 AWCO . . . J 5 V	-	-	NI 898413	NI 898420	-	W 141	3 x 30	2 x 5	201.800	10	20
ZY 0306 3 AWCO . . . J 5 V	-	NI 898437	802106	802120	-	W 144	3 x 30	3 x 6	206.100	10	20
ZY 0408 3 AWCO . . . J 5 V	-	NI 898444	802137	802144	-	-	3 x 30	4 x 8	175.100	10	20
ZY 0510 3 AWCO . . . J 5 V	-	NI 898451	802151	802168	-	W 153	3 x 30	5 x 10	130.700	10	26
ZY 0613 3 AWCO . . . J 5 V	NI 898468	802175	802182	802199	-	W 163	3 x 30	6 x 13	93.600	10	30
ZY 0816 3 AWCO . . . J 5 V	NI 898475	NI 898499	NI 898505	-	-	-	3 x 30	8 x 16	61.000	10	50
ZY 1303 3 AWCO . . . J 5 V	NI 898567	NI 898574	-	-	-	W 182	3 x 30	13 x 3	73.400	10	70
ZY 2006 3 AWCO . . . J 5 V	NI 898581	NI 898598	-	-	-	W 201	3 x 30	20 x 6	47.700	10	78

Shank dia. 6 mm

ZY 0816 6 AWCO . . . J 5 V	802205	-	802212	-	-	-	6 x 40	8 x 16	119.300	10	116
ZY 1013 6 AWCO . . . J 5 V	802229	-	802274	-	-	W 176	6 x 40	10 x 13	95.400	10	137
ZY 1020 6 AWCO . . . J 5 V	NI 898512	-	NI 898550	-	-	W 177	6 x 40	10 x 20	95.400	10	138
ZY 1325 6 AWCO . . . J 5 V	802304	-	802311	-	-	W 187	6 x 40	13 x 25	66.000	10	180
ZY 1620 6 AWCO . . . J 5 V	802328	802335	-	-	-	W 195	6 x 40	16 x 20	59.600	10	235
ZY 1632 6 AWCO . . . J 5 V	802342	802366	-	-	-	-	6 x 40	16 x 32	51.200	10	290
ZY 2025 6 AWCO . . . J 5 V	802373	802397	-	-	-	W 205	6 x 40	20 x 25	47.700	10	330
ZY 2040 6 AWCO . . . J 5 V	NI 898604	NI 898628	-	-	-	W 207	6 x 40	20 x 40	32.400	10	465
ZY 3232 6 AWCO . . . J 5 V	802427	-	-	-	-	W 230	6 x 40	32 x 32	25.700	10	460
ZY 4010 6 AWCO . . . J 5 V	NI 898635	NI 898642	-	-	-	W 236	6 x 40	40 x 10	23.800	10	252
ZY 4020 6 AWCO . . . J 5 V	802434	-	-	-	-	-	6 x 40	40 x 20	23.800	10	415

Safety note:

The maximum permissible tool speed [RPM] relates to the specified unsupported shank length of 10 mm.

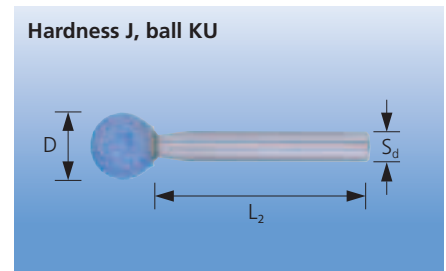
Ordering example:

EAN 4007220**802465**
 KU 06 3 AWCO **80** J 5 V

How to order:

80 = Grit size

Please complete the order no. by adding the grit size.



Order No.	Grit size				$S_d \times L_2$ [mm]	D [mm]	Max. speed [RPM]		
	46	60	80	100					
EAN 4007220									

Shank dia. 3 mm

KU 03 3 AWCO . . . J 5 V	-	N! 898659	N! 898666	-	3 x 30	3	300.200	10	18
KU 06 3 AWCO . . . J 5 V	-	N! 898673	802465	802472	3 x 30	6	149.200	10	25
KU 08 3 AWCO . . . J 5 V	N! 898680	-	802489	802519	3 x 30	8	116.200	10	30

Shank dia. 6 mm

KU 13 6 AWCO . . . J 5 V	802533	802557	802595	-	6 x 40	13	73.400	10	125
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Safety note:

The maximum permissible tool speed [RPM] relates to the specified unsupported shank length of 10 mm.

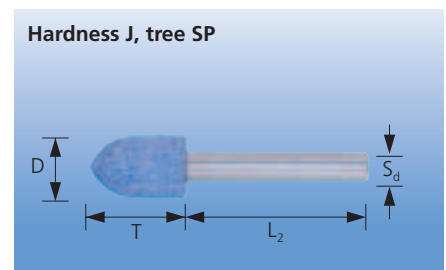
Ordering example:

EAN 4007220**802663**
 SP 0613 3 AWCO **80** J 5 V

How to order:

80 = Grit size

Please complete the order no. by adding the grit size.



Order No.	Grit size				$S_d \times L_2$ [mm]	D x T [mm]	Max. speed [RPM]		
	46	60	80	100					
EAN 4007220									

Shank dia. 3 mm

SP 0306 3 AWCO . . . J 5 V	-	N! 898697	N! 898703	N! 898734	3 x 30	3 x 6	252.000	10	20
SP 0408 3 AWCO . . . J 5 V	-	N! 898741	N! 898758	N! 898765	3 x 30	4 x 8	195.400	10	20
SP 0610 3 AWCO . . . J 5 V	-	N! 898789	-	-	3 x 30	6 x 10	134.100	10	30
SP 0613 3 AWCO . . . J 5 V	N! 898772	-	802663	802670	3 x 30	6 x 13	107.900	10	30
SP 0816 3 AWCO . . . J 5 V	N! 898796	802687	802694	802700	3 x 30	8 x 16	72.800	10	43

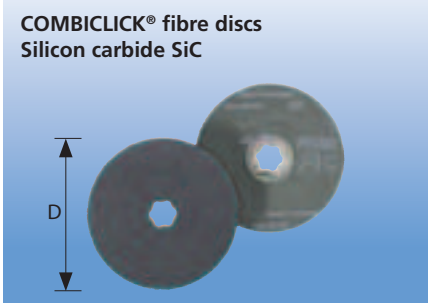
Shank dia. 6 mm

SP 1320 6 AWCO . . . J 5 V	802717	802724	802731	-	6 x 40	13 x 20	73.400	10	160
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New in the PFERD Product Line 204

COMBICLICK® Fibre Discs

COMBICLICK® fibre discs
Silicon carbide SiC



The silicon carbide SiC type is suitable for working on aluminium, copper, bronze, titanium, high-alloy steels and fibre reinforced plastics.

Particularly recommended for use on titanium alloys.

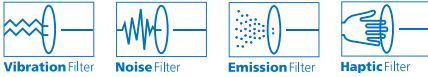
The tool of choice in the aircraft industry, specifically where SiC is the only approved abrasive product for use on engine components.



Abrasive: SiC (silicon carbide)

Ordering example:
EAN 4007220898895
CC-FS 115 SiC 60

How to order:

CC-FS = COMBICLICK® fibre disc
115 = Dia. D [mm]
SiC = Silicon carbide SiC
60 = Grit size
Please state required grit size.



Order No.	Grit size				D [mm]	Max. speed [RPM]		
	36	60	80	120				
EAN 4007220								
N! CC-FS 115 SiC	898888	898895	898901	898918	115	13.300	25	750
N! CC-FS 125 SiC	898925	898932	898949	898956	125	12.200	25	875



Suitable for general work on metal surfaces e.g. removal of rough grinding traces, removal of oxidation and for light deburring work.

Application examples:

- Removing heat discoloration on components made of stainless steel (INOX).
- Fine-grinding of large components in process equipment and tank construction.

Recommendation for use:

- COMBICLICK® non-woven discs VRH achieve their best performance at a recommended cutting speed of 15-20 m/s. This provides an ideal compromise between stock removal rate, quality finish, temperature load of the workpiece and tool wear.

Abrasive: Aluminium oxide A

Available grit sizes:
 coarse = yellowish-brown
 medium = red-brown
 very fine = blue

Safety notes:

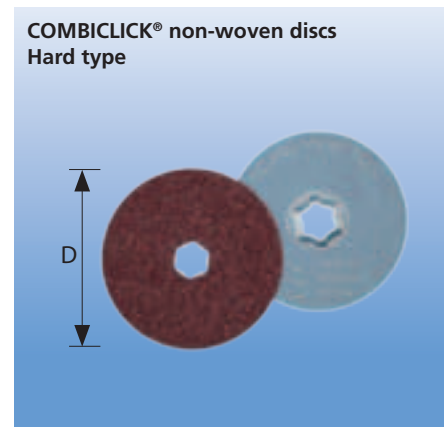
For safety reasons, the stated max. RPM level must not be exceeded.



Ordering example:

EAN 4007220935873
 CC-VRH 115 A medium

How to order:

CC-VRH = COMBICLICK® non-woven discs
 Hard type
 115 = Dia. D [mm]
 A = Aluminium oxide A
 medium = Grit size



Order No.	Grit size			D [mm]	Recom. speed [RPM]	Max. speed [RPM]		
	coarse	medium	very fine					
EAN 4007220								
N! CC-VRH 115 A	935880	935873	935743	115	3.300	10.500	10	310
N! CC-VRH 125 A	935910	935903	935897	125	3.100	9.650	10	335

It is suitable for very fine grinding of surfaces and contours, as well as cleaning work on metals and painted surfaces. The open structure and high flexibility of the non-woven material prevents loading of the tool.

Application examples:

- Matt finishing or structuring of components made of stainless steel (INOX).
- Very fine grinding of brass, copper, titanium and aluminium.

Recommendation for use:

- COMBICLICK® non-woven discs VRW achieve their best performance at a recommended cutting speed of 15-20 m/s. This provides an ideal compromise between stock removal rate, quality finish, temperature load of the workpiece and tool wear.

Abrasive: Aluminium oxide A

Safety notes:

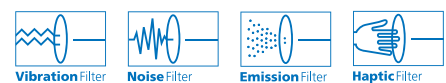
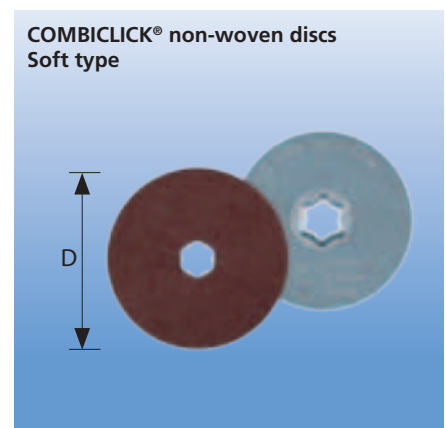
For safety reasons, the stated max. RPM level must not be exceeded.

Ordering example:

EAN 4007220935934
 CC-VRW 115 A fine

How to order:

CC-VRW = COMBICLICK® non-woven discs
 Soft type
 115 = Dia. D [mm]
 A = Aluminium oxide A
 fine = Grit size

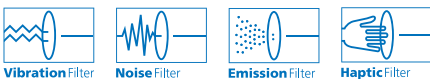


Order No.	Grit size			D [mm]	Recom. speed [RPM]	Max. speed [RPM]		
	medium	fine	very fine					
EAN 4007220								
N! CC-VRW 115 A	935941	935934	935927	115	3.300	10.500	10	220
N! CC-VRW 125 A	935972	935965	935958	125	3.100	9.650	10	260

New in the PFERD Product Line 204

COMBICLICK® Non-Woven Discs

COMBICLICK® non-woven discs Type PNER



COMBICLICK® non-woven discs PNER are used for face-down grinding with variable-speed angle grinders.

Especially suitable for work on large surfaces on components made of stainless steel (INOX). Achieves a very fine, uniform surface finish which, depending on requirements, is a sufficient preparation for high-gloss polishing.

Recommendation for use:

- On variable-speed angle grinders, COMBICLICK® non-woven discs PNER achieve their best performance at a cutting speed of 15-35 m/s.

Ordering note:

The different fleece thicknesses/hardnesses are colour-coded:

- soft (W) = grey
- medium-soft (MW) = light blue
- medium-hard (MH) = dark blue
- hard (H) = red

Abrasive:

- A = Aluminium oxide (Al_2O_3)
- C = Silicon carbide (SiC)

Safety notes:



For safety reasons, the stated max. RPM level must not be exceeded.

Ordering example:

EAN 4007220935989
CC-PNER W 115 C fine

How to order:

CC-PNER = COMBICLICK® non-woven discs
Type PNER
W = Fleece density soft
115 = Dia. D [mm]
C = Silicon carbide (SiC)
fine = Grit size

Order No.	EAN 4007220	Grit size	Type	D [mm]	Recom. speed [RPM]	Max. speed [RPM]		
N! CC-PNER W 115 C fine	935989	fine	soft	115	5.000	8.350	5	260
N! CC-PNER MW 115 C fine	936009	fine	medium-soft	115	5.000	8.350	5	260
N! CC-PNER MH 115 C fine	936016	fine	medium-hard	115	5.000	8.350	5	260
N! CC-PNER H 115 A fine	936023	fine	hard	115	5.000	8.350	5	260
N! CC-PNER W 125 C fine	935996	fine	soft	125	4.500	7.650	5	310
N! CC-PNER MW 125 C fine	936030	fine	medium-soft	125	4.500	7.650	5	310
N! CC-PNER MH 125 C fine	936047	fine	medium-hard	125	4.500	7.650	5	310
N! CC-PNER H 125 A fine	936054	fine	hard	125	4.500	7.650	5	310

COMBICLICK® Felt discs

COMBICLICK® felt discs



COMBICLICK® felt discs are used with polishing pastes for pre-polishing and high-gloss polishing of medium to large components.

Application examples:

- High-gloss polishing of components made of stainless steel (INOX) in chemical plant.
- Mirror gloss polishing of large press moulds or injection moulds.

Ordering note:

- Felt discs achieve their best performance at a recommended cutting speed of 5-10 m/s. This provides an ideal compromise between stock removal rate, quality finish, temperature load of the workpiece and tool wear.
- When changing the polishing paste, employ a new, unused felt disc.

Safety notes:



For safety reasons, the stated max. RPM level must not be exceeded.

Ordering example:

EAN 4007220936078
CC-FR 125

How to order:

CC-FR = COMBICLICK® felt discs
125 = Dia. D [mm]

Order No.	EAN 4007220	D [mm]	Recom. speed [RPM]	Max. speed [RPM]		
N! CC-FR 115	936061	115	1.650	10.500	5	200
N! CC-FR 125	936078	125	1.500	9.650	5	240

Abrasive discs of the aluminium oxide type A-CONTOUR are very flexible and adaptive on account of their outer contour.

Especially suitable for working tight contours and concave surfaces with radius transitions. The special outer contour prevents the tools "cutting in" to the workpiece.

Abrasive: Aluminium oxide A

Recommendation for use:

- COMBIDISC® aluminium oxide A-CONTOUR abrasive discs achieve their best output at the recommended peripheral speed of 20-35 m/s.

Ordering note:

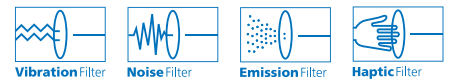
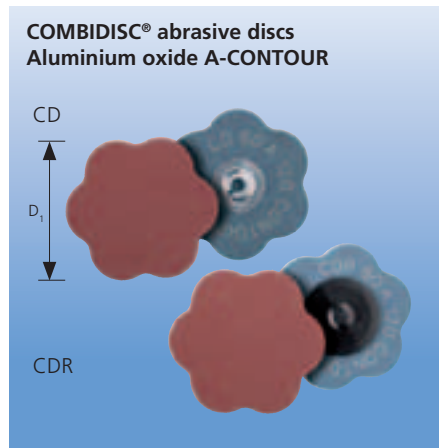
We recommend using soft or medium abrasive disc holders dia. 50 mm to benefit fully from the flexibility of these abrasive discs.





Ordering example:

EAN 4007220**898819**
CD 60 A 80 CONTOUR

How to order:

- CD = COMBIDISC® abrasive disc
 - 60 = Dia. D₁ [mm]
 - A = Aluminium oxide A
 - 80 = Grit size
 - CONTOUR = Shape
- Please state required grit size.

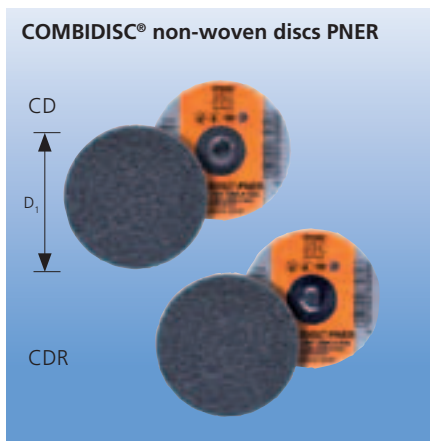


Order No.	Grit size				D ₁ [mm]	Recom. speed [RPM]		
	60 CONTOUR	80 CONTOUR	120 CONTOUR	180 CONTOUR				
EAN 4007220								
CD system 								
N! CD 60 A	898802	898819	898826	898833	60	7.500 - 11.000	50	300
CDR system 								
N! CDR 60 A	898840	898857	898864	898871	60	7.500 - 11.000	50	300



New in the PFERD Product Line 204

COMBIDISC® Grinding Tools CD, CDR



COMBIDISC® non-woven discs PNER are used for end grinding on angle grinders. The CD or CDR fastening elements are bonded to the unitized fleece. They are particularly suitable for working smaller and medium-sized areas on stainless steel (INOX) components.

Abrasive:
A = Aluminium oxide (Al₂O₃)
C = Silicon carbide (SiC)

Ordering note:
 The different fleece thicknesses/hardnesses are colour-coded:
 soft (W) = grey
 medium-hard (MH) = dark blue
 hard (H) = red

Recommendation for use:

■ COMBIDISC® non-woven discs PNER achieve their best performance on variable-speed angle grinders at a cutting speed of about 25-30 m/s.



Ordering example:

EAN 4007220832776
 CD PNER-W 5006 C fine

How to order:

CD PNER = COMBIDISC® non-woven discs PNER
 W = Fleece density soft
 5006 = Dia. D x width T [mm]
 C = Silicon carbide (SiC)
 fine = Grit size
 Please state required grit size.



Order No.	Grit size		Type	D ₁ x T [mm]	Abrasive	Recom. speed [RPM]	Max. speed [RPM]		
	coarse	fine							
EAN 4007220									

CD system 

N!	CD PNER-W 5006 C	-	832776	soft	50 x 6	SiC	9.500	19.100	25	350
N!	CD PNER-W 5006 A	832783	-	soft	50 x 6	Aluminium oxide	9.500	19.100	25	350
N!	CD PNER-W 7506 C	-	832837	soft	75 x 6	SiC	6.400	12.500	25	670
N!	CD PNER-W 7506 A	832868	-	soft	75 x 6	Aluminium oxide	6.400	12.500	25	670
N!	CD PNER-MH 5006 C	-	832790	medium-hard	50 x 6	SiC	9.500	19.100	25	350
N!	CD PNER-MH 5006 A	-	832806	medium-hard	50 x 6	Aluminium oxide	9.500	19.100	25	350
N!	CD PNER-MH 7506 C	-	832875	medium-hard	75 x 6	SiC	6.400	12.500	25	670
N!	CD PNER-MH 7506 A	-	832882	medium-hard	75 x 6	Aluminium oxide	6.400	12.500	25	670
N!	CD PNER-H 5006 A	832851	832813	hard	50 x 6	Aluminium oxide	9.500	19.100	25	350
N!	CD PNER-H 7506 A	832905	832899	hard	75 x 6	Aluminium oxide	6.400	12.500	25	670

CDR system 

N!	CDR PNER-W 5006 C	-	832653	soft	50 x 6	SiC	9.500	19.100	25	350
N!	CDR PNER-W 5006 A	832660	-	soft	50 x 6	Aluminium oxide	9.500	19.100	25	350
N!	CDR PNER-W 7506 C	-	832714	soft	75 x 6	SiC	6.400	12.500	25	670
N!	CDR PNER-W 7506 A	832721	-	soft	75 x 6	Aluminium oxide	6.400	12.500	25	670
N!	CDR PNER-MH 5006 C	-	832677	medium-hard	50 x 6	SiC	9.500	19.100	25	350
N!	CDR PNER-MH 5006 A	-	832684	medium-hard	50 x 6	Aluminium oxide	9.500	19.100	25	350
N!	CDR PNER-MH 7506 C	-	832738	medium-hard	75 x 6	SiC	6.400	12.500	25	670
N!	CDR PNER-MH 7506 A	-	832745	medium-hard	75 x 6	Aluminium oxide	6.400	12.500	25	670
N!	CDR PNER-H 5006 A	832707	832691	hard	50 x 6	Aluminium oxide	9.500	19.100	25	350
N!	CDR PNER-H 7506 A	832769	832752	hard	75 x 6	Aluminium oxide	6.400	12.500	25	670



POLISTAR-TUBE are made up of several layers of grinding stars riveted together. To prevent corrosion forming on stainless steel (INOX) pipes, POLISTAR-TUBES are made exclusively of stainless steel rivets.

POLISTAR-TUBE grinding stars are used especially for working the inside surfaces of pipes and pipe bends.

The grinding stars are combined with suitable flexible shafts (see page 64).

- for PST-T dia. 50-80 mm – 4 PST-T DIN 10/M4
- for PST-T dia. 90-100 mm – 7 PST-T DIN 10/M5

POLISTAR-TUBE are just perfect

- for step-by-step cleaning and finishing of inner surfaces and pipe bends,
- for rounding off pipe ends and deburring bore holes,
- for use in straight pipes and deep bore holes. With this application the PST-T are used with the matching arbors.

Advantages:

- Extremely flexible.
- Very high-quality surface finishes up to R_a 0,2 μ m can be achieved.

Recommendation for use:

- The following pipe inner diameters can be worked using different diameters:
 - PST-T dia. 50 mm for inner pipe dia. 35-40 mm
 - PST-T dia. 60 mm for inner pipe dia. 40-45 mm
 - PST-T dia. 70 mm for inner pipe dia. 45-50 mm
 - PST-T dia. 80 mm for inner pipe dia. 50-55 mm
 - PST-T dia. 90 mm for inner pipe dia. 55-60 mm
 - PST-T dia. 100 mm for inner pipe dia. 60-65 mm
- The different grit sizes can be used to achieve the following roughness values:
 - Grit size 60 = 1,0-1,3 μ m R_a
 - Grit size 120 = 0,6-1,0 μ m R_a
 - Grit size 180 = 0,4-0,6 μ m R_a
 - Grit size 240 = 0,3-0,4 μ m R_a
 - Grit size 320 = 0,2-0,3 μ m R_a

Ordering note:

Please order arbors separately.
PST-T in grit size 60 are delivered as 4-layer items.

Safety note:

For safety reasons, the stated max. RPM level must not be exceeded.

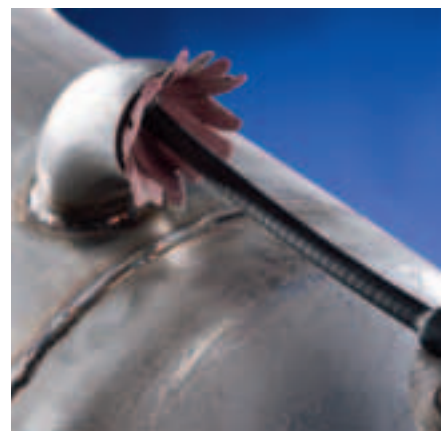
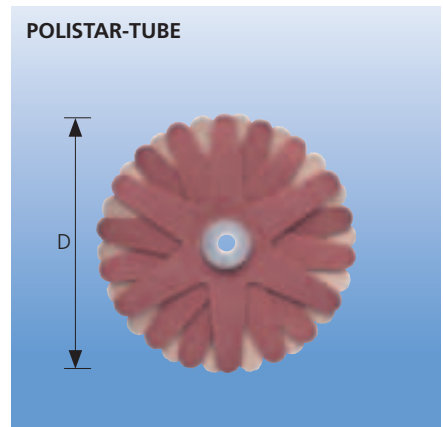
Ordering example:



EAN 4007220834404
PST-T 50/4 6 A 120

How to order:

PST-T = POLISTAR-TUBE
50 = Dia. D [mm]
4 = Center hole dia. H [mm]
6 = No. of layers
A = Aluminium oxide A
120 = Grit size

Please state required grit size.

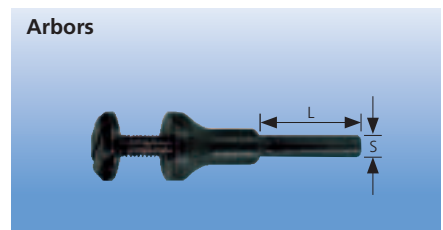




Order No.	Grit size					D [mm]	H [mm]	Recom. speed [RPM]	Max. speed [RPM]	Suitable arbor		
	60	120	180	240	320							
EAN 4007220												
N! PST-T 50/4 6 A	834398	834404	834411	834435	834442	50	4	3.000	7.650	BO 6/4 0-10	10	60
N! PST-T 60/4 6 A	834596	834718	834725	834732	834749	60	4	2.500	6.350	BO 6/4 0-10	10	70
N! PST-T 70/4 6 A	834756	834763	834770	834787	834794	70	4	2.200	5.450	BO 6/4 0-10	10	80
N! PST-T 80/4 6 A	834800	834817	834824	834831	834848	80	4	1.900	4.750	BO 6/4 0-10	10	110
N! PST-T 90/5 8 A	834855	834862	834879	834886	834893	90	5	1.700	4.250	BO 6/5 0-10	10	140
N! PST-T 100/5 8 A	834909	834916	834923	834947	834954	100	5	1.500	3.820	BO 6/5 0-10	10	180

Re-usable arbor for POLISTAR-TUBE.

These arbors reduce set-up times significantly. Discs can be changed without removing the arbor from the machine spindle.

Arbors

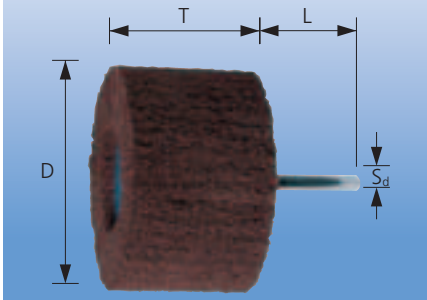


Order No.	EAN 4007220	S x L [mm]	Clamping width [mm]	Suitable for arbor hole [mm]		
N! BO 6/4 0-10	834343	6 x 25	0-10	4	1	38
N! BO 6/5 0-10	834350	6 x 25	0-10	5	1	38

New in the PFERD Product Line 204

POLINOX® Mounted Points

POLINOX® mounted points PNL Aluminium oxide



Made of multiple elements of non-woven abrasive material, arranged radially. Dense packing of the layers ensures a long service life.

These tools are used chiefly for surface conditioning.

Abrasive: Aluminium oxide A

Ordering example:

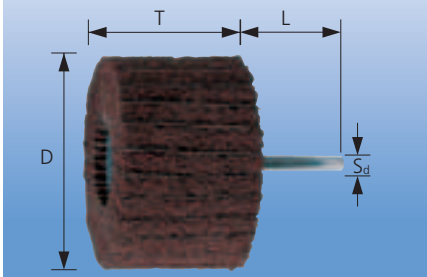
EAN 4007220157060
PNL 4020/6 A 100

How to order:

PNL = POLINOX® mounted point
4020 = Dia. D x width T [mm]
6 = Shank dia. S_d [mm]
A = Aluminium oxide A
100 = Grit size
Please state required grit size.

Order No.	Grit size			D x T [mm]	S_d x L [mm]	Recom. speed [RPM]	Max. speed [RPM]		
	100	180	280						
EAN 4007220									
PNL 4020/6 A	157060	157077	157084	40 x 20	6 x 40	7.500	15.000	10	270
PNL 5030/6 A	157107	157114	157121	50 x 30	6 x 40	6.000	12.000	10	392
N! PNL 6025/6 A	892879	892886	892893	60 x 25	6 x 40	5.000	10.000	10	650
PNL 6050/6 A	157213	157220	157237	60 x 50	6 x 40	5.000	10.000	10	880
N! PNL 8025/6 A	892978	892992	893005	80 x 25	6 x 40	4.000	7.500	10	950
PNL 8050/6 A	157183	157190	157206	80 x 50	6 x 40	4.000	7.500	10	1.560

POLINOX® mounted points PNZ Aluminium oxide



The non-woven abrasive flaps are arranged radially with abrasive cloth interlayers.

This structure permits an improved stock removal and produces a coarser finish.

Abrasive: Aluminium oxide A

Ordering example:

EAN 4007220157053
PNZ 4020/6 A 100

How to order:

PNZ = POLINOX® mounted point
4020 = Dia. D x width T [mm]
6 = Shank dia. S_d [mm]
A = Aluminium oxide A
100 = Grit size
Please state required grit size.

Order No.	Grit size		D x T [mm]	S_d x L [mm]	Recom. speed [RPM]	Max. speed [RPM]		
	100	180						
EAN 4007220								
PNZ 4020/6 A	157053	294697	40 x 20	6 x 40	7.500	15.000	10	300
PNZ 5030/6 A	803158	803165	50 x 30	6 x 40	6.000	12.000	10	520
N! PNZ 6025/6 A	892909	892916	60 x 25	6 x 40	5.000	10.000	10	650
PNZ 6050/6 A	157138	294703	60 x 50	6 x 40	5.000	10.000	10	980
N! PNZ 8025/6 A	893012	893029	80 x 25	6 x 40	4.000	7.500	10	950
PNZ 8050/6 A	157176	294710	80 x 50	6 x 40	4.000	7.500	10	1.730
PNZ 10050/6 A	294666	294673	100 x 50	6 x 40	3.000	6.000	5	2.710



Suitable for cleaning, deburring and fine grinding of inner surfaces and contours.

Particularly suitable for narrow places such as bores and cavities and hard-to-reach places.

Available in four different dimensions and three grit sizes.

Application examples:

- Deburring of bores on non-ferrous metals.
- Fine grinding on the inner surfaces of pipes made of stainless steel (INOX).
- Cleaning thread pitches.

Recommendation for use:

- Recommended cutting speed: 10-20 m/s.

Ordering note:

Please order arbor separately.

Ordering example:

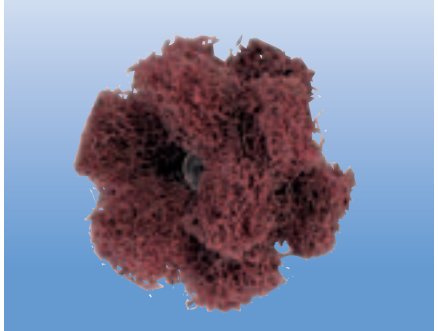
EAN 4007220**441138**
PNST 25-2 A medium



How to order:

PNST = POLINOX® cross buffs
25 = Dia. D [mm]
2 = No. of layers
A = Aluminium oxide A
medium = Grit size

Please state required grit size.

POLINOX® cross buffs PNST



Order No.	Grit size			D [mm]	No. of layers	Recom. speed [RPM]	Max. speed [RPM]	Suitable arbor		
	coarse	medium	very fine							
	EAN 4007220									
PNST 19-2 A	-	N! 899199	N! 899205	19	2	15.000	25.100	BO PNST 6-125, BO PNST 6-75	20	120
PNST 25-2 A	N! 899212	441138	441145	25	2	10.000	19.100	BO PNST 6-125, BO PNST 6-75	20	160
PNST 38-3 A	N! 899229	441152	441169	38	3	7.500	12.600	BO PNST 6-125, BO PNST 6-75	20	230
PNST 50-2 A	N! 899410	N! 899427	N! 899434	50	2	5.500	9.500	BO PNST 6-125, BO PNST 6-75	20	370

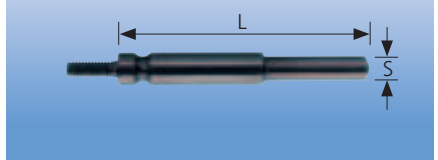
Arbors



Arbor for POLINOX® cross buffs. The arbors are of different lengths, thus allowing bores or cut-outs of different depths to be reached.

Explanation of the code system:

S = Shank diameter [mm]
L = Shank length [mm]

Arbors for POLINOX® cross buffs



Order No.	EAN 4007220	S x L [mm]	Thread	Mounting length [mm]		
BO PNST 6-75	440988	6 x 75	8-32 UNC	30	1	25
BO PNST 6-125	440995	6 x 125	8-32 UNC	30	1	40



New in the PFERD Product Line 204

POLINOX® Unitized Wheels



POLINOX® non-woven tools PNER consist of multiple layer, strongly compressed non-woven material, bonded in a special grit resin system. This bonding system produces non-woven tools with excellent surface finishes, high stock removal and long tool life. Provide medium flexibility when working on soft metals, alloys, high-alloy steels and titanium alloys.

Recommendations for use

- POLINOX® non-woven tools PNER perform best at the recommended peripheral speed of 15-30 m/s, where the optimum balance between stock removal, surface finishing quality, workpiece temperature loads and tool wear is achieved.
- We recommend the use of substantially reduced peripheral speeds on poorly heat-conducting materials (titanium, stainless steels).
- Suitable drive systems include flexible shafts and electric or air-powered straight grinders.

Safety notes

For safety reasons, it is imperative to remain within the stated RPM at all times.

Available in four different grades and two abrasive types:

soft W	maximum flexibility	Very good for contour grinding.
medium-soft MW	semi-flexible type	Especially suited for contour grinding.
medium-hard MH	medium flexibility	Good stock removal and edgeholding.
hard H	low flexibility	Very good stock removal, edgeholding.

Recommendation for use:

- POLINOX® unitized wheels achieve their best performance on variable-speed angle grinders at a cutting speed of 30 m/s.

Ordering example:

EAN 4007220**833131**
PNER-MW 12506-22,2 C fine

How to order:

PNER = POLINOX® unitized wheels
MW = Fleece density medium-soft
12506 = Dia. D x width T [mm]
22,2 = Center hole dia. H [mm]
C = Abrasive SiC
fine = Grit size

POLINOX® unitized wheels PNER





POLINOX® unitized wheels have been designed for variable-speed angle grinders. They are especially suitable for working fillet welds and slots that are difficult to access or indentations in stainless steel (INOX) components.

Abrasive:

A = Aluminium oxide (Al₂O₃)
C = Silicon carbide (SiC)

Ordering note:

The different fleece thicknesses/hardnesses are colour-coded:
medium-soft (MW) = light blue
medium-hard (MH) = dark blue
hard (H) = red

Order No.	EAN 4007220	Grit size	Type	D x T [mm]	H [mm]	Abrasive	Recom. speed [RPM]	Max. speed [RPM]		
N! PNER-MW 12506-22,2 C fine	833131	fine	medium-soft	125 x 6	22,23	SiC	4.500	6.100	5	280
N! PNER-MW 12506-22,2 A fine	833148	fine	medium-soft	125 x 6	22,23	Aluminium oxide	4.500	6.100	5	280
N! PNER-MH 12506-22,2 A fine	833155	fine	medium-hard	125 x 6	22,23	Aluminium oxide	4.500	6.100	5	280
N! PNER-H 12506-22,2 A fine	833162	fine	hard	125 x 6	22,23	Aluminium oxide	4.500	6.100	5	280
N! PNER-H 12506-22,2 A coarse	833179	coarse	hard	125 x 6	22,23	Aluminium oxide	4.500	6.100	5	280
N! PNER-MW 15003-25,4 C fine	895719	fine	medium-soft	150 x 3	25,4	SiC	3.800	5.100	5	250
N! PNER-MH 15003-25,4 C fine	895726	fine	medium-hard	150 x 3	25,4	SiC	3.800	5.100	5	250
N! PNER-H 15003-25,4 A fine	895733	fine	hard	150 x 3	25,4	Aluminium oxide	3.800	5.100	5	250
N! PNER-W 15006-25,4 C fine	895740	fine	soft	150 x 6	25,4	SiC	3.800	5.100	5	500
N! PNER-MW 15006-25,4 C fine	895757	fine	medium-soft	150 x 6	25,4	SiC	3.800	5.100	5	500
N! PNER-H 15006-25,4 A fine	895764	fine	hard	150 x 6	25,4	Aluminium oxide	3.800	5.100	5	500

Handy electric fillet weld grinder in a kit with selected PFERD tools for brushing, cleaning, smoothing and ultra fine grinding of fillet welds and hard to reach places, especially on stainless steel (INOX).

Ideal for all fine grinding work, especially at assembly sites for stainless steel handrail fabrication.

Also suitable for piping or chemical plant because of the very comprehensive range of accessories included for different applications.

Outstanding work with this very light, handy electric fillet weld grinder. Insulated motor, integrated overload protection, user-friendly construction.

Stepless electronic speed regulations within the 1.400-3.200 RPM speed range.

Please refer to page 76 for detailed information regarding tool drives and order data.

Contents:

- 1 piece set:
 - Electric fillet weld grinder KNER 5/34 V-SI 230V
 - POLINOX® unitized wheels
 - PNER-MW 15003-25,4 C fine
 - PNER-MH 15003-25,4 C fine
 - PNER-H 15003-25,4 A fine
 - PNER-W 15006-25,4 C fine
 - PNER-MW 15006-25,4 C fine
 - PNER-H 15006-25,4 A fine
 - Dressing stone SE 702212 CU 46 M5V
 - POLIVLIES® discs
 - PVR 15008-13 A medium
 - PVR 15008-13 A very fine
 - Wheel Brush RBU 15016/12,0 SiC 80 1,00 SG incl. arbor hole adapter 22,2

Recommendation for use:

- Please use a dressing stone for dressing contours of POLINOX® unitized wheels.

Please observe the recommended RPM:

- POLINOX® unitized wheels PNER
2.000-3.800 RPM
- POLIVLIES® discs PVR
1.500-3.100 RPM
- Wheel Brush RBU
2.400-3.900 RPM



Order No.	EAN 4007220		
N! SET PNER 15003/06 KNER 5/34 230 V	936306	1	6.800



POLINOX® unitized discs are used for face-down grinding on angle grinders. The unitized fleece is bonded to a glass woven base. The PNER discs are particularly suitable for working larger areas on stainless steel (INOX) components.

Abrasive:

C = Silicon carbide (SiC)

Recommendation for use:

- POLINOX® unitized discs achieve their best performance on variable-speed angle grinders at a cutting speed of 35 m/s.

Ordering note:

The different fleece thicknesses/hardnesses are colour-coded:

- soft (W) = grey
- medium-soft (MW) = light blue
- medium-hard (MH) = dark blue

Ordering example:



EAN 4007220**824337**
DISC PNER W 115-22,2 C fine

How to order:

DISC PNER = POLINOX® unitized discs
 W = Fleece density soft
 115 = Dia. D x Width T [mm]
 22,2 = Center hole dia. H [mm]
 C = Abrasive SiC
 fine = Grit size

POLINOX® Unitized Wheels



Order No.	EAN 4007220	Grit size	Type	D x T [mm]	H [mm]	Recom. speed [RPM]	Max. speed [RPM]		
N! DISC PNER W 115-22,2 C fine	824337	fine	soft	115 x 13	22,23	6.000	10.000	5	505
N! DISC PNER W 125-22,2 C fine	824368	fine	soft	125 x 13	22,23	5.400	10.000	5	730
N! DISC PNER MW 115-22,2 C fine	824344	fine	medium-soft	115 x 13	22,23	6.000	10.000	5	505
N! DISC PNER MW 125-22,2 C fine	824375	fine	medium-soft	125 x 13	22,23	5.400	10.000	5	730
N! DISC PNER MH 115-22,2 C fine	824351	fine	medium-hard	115 x 13	22,23	6.000	10.000	5	505
N! DISC PNER MH 125-22,2 C fine	824382	fine	medium-hard	125 x 13	22,23	5.400	10.000	5	730

New in the PFERD Product Line 204

Short Abrasive Belts

**Short belts
Felt type**



Short felt-type abrasive belts are used with polishing pastes for pre-polishing and high-gloss polishing of tubular structures and rails.

Recommendation for use:


- For the polishing process, apply pre-polishing and high-gloss polishing successively.
- When changing the polishing paste, also replace the polishing belt in order not to introduce any contaminants from the previous work step.
- Recommended cutting speed 5-15 m/s.

Ordering example:

EAN 4007220936269
P-BA 30/ 533

How to order:

P-BA = Polishing belt
30 = Width T [mm]
533 = Length L [mm]

Order No.	EAN 4007220	Acc. to ISO standards	T x L [mm]		
N! P-BA 30/533	936269	2976	30 x 533	5	80
N! P-BA 30/610	936276	-	30 x 610	5	90



Felt fan grinders are used with polishing pastes for pre-polishing and high-gloss polishing of small to medium sized parts.

With its flap design, this polishing tool adapts ideally to the workpiece contours. The thermal load of the workpiece is considerably reduced.

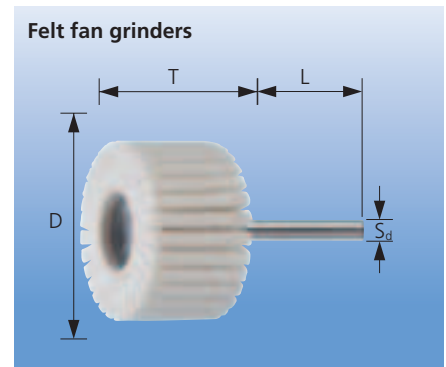
Recommendation for use:

- The hard version is ideal for pre-polishing flat surfaces.
- The soft version is ideal for high-gloss polishing and processing highly contoured workpieces.

■ If very fine finishes need to be achieved, the two versions can be used successively. This requires the use of suitable polishing pastes.

Ordering example:
 EAN 4007220936184
 FLS 4020/6 soft

How to order:
 FLS = Felt fan grinders
 4020 = Dia. D x width T [mm]
 6 = Shank dia. S_d [mm]
 soft = Hardness



Order No.	Type		D x T [mm]	S _d x L [mm]	Recom. speed [RPM]	Max. speed [RPM]		
	soft	hard						
EAN 4007220								
N! FLS 3020/6	936160	936177	30 x 20	6 x 40	6.300	20.000	5	95
N! FLS 4020/6	936184	936191	40 x 20	6 x 40	4.750	15.000	5	125
N! FLS 5030/6	936207	936214	50 x 30	6 x 40	3.800	12.000	5	170
N! FLS 6040/6	936221	936238	60 x 40	6 x 40	3.150	10.000	5	310
N! FLS 8050/6	936245	936252	80 x 50	6 x 40	2.400	7.500	5	620

Felt flap discs are used with polishing pastes for pre-polishing and high-gloss polishing of small to medium sized parts.

With its flap design, this polishing tool adapts ideally to the workpiece contours. The thermal load of the workpiece is considerably reduced.

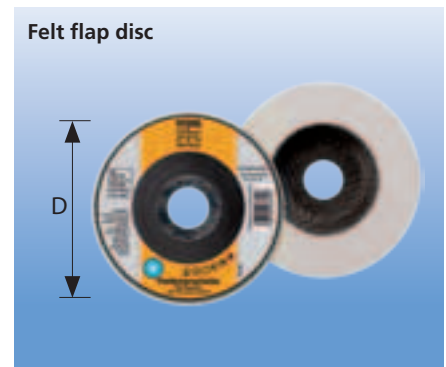
Recommendation for use:

- The hard version is ideal for pre-polishing flat surfaces.
- The soft version is ideal for high-gloss polishing and processing highly contoured workpieces.

■ If very fine finishes need to be achieved, the two versions can be used successively. This requires the use of suitable polishing pastes.

Ordering example:
 EAN 4007220936085
 FFS 115/22,23 soft

How to order:
 FFS = Felt flap disc
 115 = Dia. D [mm]
 22,23 = Cent. hole dia. H [mm]
 soft = Hardness



Order No.	Type		D x T [mm]	Cent. hole dia. H [mm]	Recom. speed [RPM]	Max. speed [RPM]		
	soft	hard						
EAN 4007220								
N! FFS 115/22,23	936085	936139	115 x 22	22,23	1.650	8.350	5	400
N! FFS 125/22,23	936146	936153	125 x 22	22,23	1.500	7.650	5	450

New in the PFERD Product Line 206

Combination Abrasive Wheels DUODISC®, Universal Line PS-FORTE

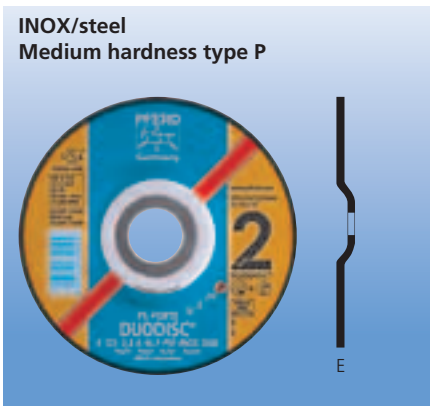


Combination abrasive wheel DUODISC® for cutting and light deburring work. General-purpose tool.

Alongside the tried-and-trusted disc width 2,8 mm, PFERD now also supplies a thin version with a width of only 1,9 mm.

Advantages

- Unsurpassed quality and safety due to robust design ensuring high dimensional and lateral stability.
- Reduces labour costs by eliminating set-up times (less wheel change).
- High performance due to aggressive abrasive grain and high-grade bond.
- Combination abrasive wheel DUODISC® conforms to EN 12413:2007.



INOX/steel
Medium hardness type P

Abrasive: Aluminium oxide A
 Manufactured without addition of ferrous, sulphurous or chlorinated fillers.



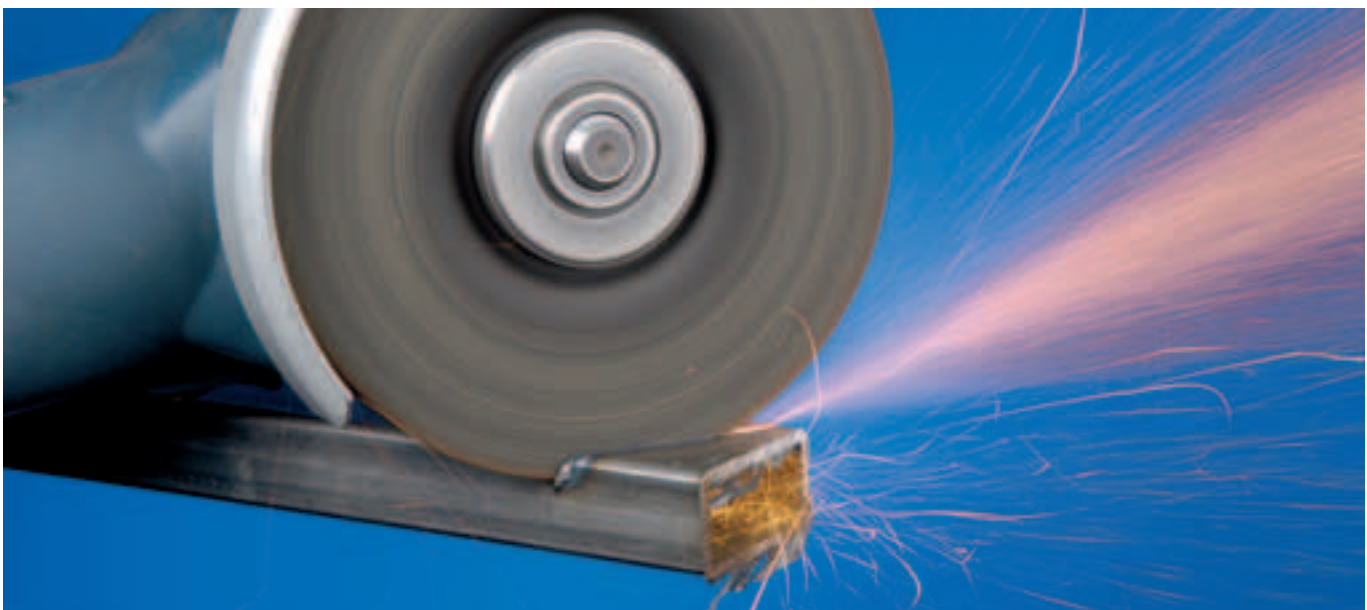
Workpiece materials:
 Stainless steel (INOX), steel

Application:
 Cutting, light deburring, surface grinding

Recommendation for use:

- **Width 1,9 mm** for fast cutting and deburring.
- **Width 2,8 mm** for coarse applications with maximum tool life.
- Suitable for use on angle grinders of all output categories.
- One abrasive wheel for dual-purpose use without tool change.

Order No.	EAN 4007220	EN-designation	D x U x H [mm (Inch)]	Max. speed [RPM]		
N! E 100-1,9 A 46 P PSF-INOX-DUO/16,0	845578	27 A 46 P BF 80	100 x 1,9 x 16,0 (5/8)	15.300	10	0,400
N! E 115-1,9 A 46 P PSF-INOX-DUO/22,23	835081	27 A 46 P BF 80	115 x 1,9 x 22,23 (7/8)	13.300	10	0,500
E 115-2,8 A 46 P PSF-INOX-DUO/22,23	754498	27 A 46 P BF 80	115 x 2,8 x 22,23 (7/8)	13.300	10	0,750
N! E 125-1,9 A 46 P PSF-INOX-DUO/22,23	835098	27 A 46 P BF 80	125 x 1,9 x 22,23 (7/8)	12.200	10	0,600
E 125-2,8 A 46 P PSF-INOX-DUO/22,23	754504	27 A 46 P BF 80	125 x 2,8 x 22,23 (7/8)	12.200	10	0,850



The reinforced grinding wheel WHISPER is a high-power tool from PFERD which makes unusually high demands on stock removal, surface quality and working comfort.

The patented design contributes to the very soft, quiet grinding characteristic and high degree of working comfort with low vibration, dust and noise levels. No edge splitting in use.

Very high machining capacity from the very start. The increased tool productivity allows substantial savings on labour costs.



The reinforced grinding wheel WHISPER is excellently suitable for users who have a lot of grinding to do and want to produce high-quality finishes economically.

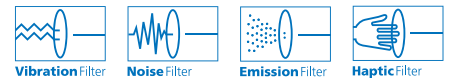
Abrasive: Aluminium oxide A
 Grit size: 46



Workpiece materials:
 Stainless steel (INOX), steel

Application:
 Surface grinding, work on weld seams, fillet weld grinding

Recommendation for use:
 ■ Suitable for use on angle grinders of all output categories.

INOX/steel
Very soft type – hardness grade H



Order No.	EAN 4007220	Grit size	D x T x H [mm (Inch)]	Max. speed [RPM]		
N! E 115-7 A 46 H SGP-WHISPER/22,23	827505	46	115 x 7,4 x 22,23 (7/8)	13.300	10	1,620
N! E 125-7 A 46 H SGP-WHISPER/22,23	827512	46	125 x 7,4 x 22,23 (7/8)	12.200	10	1,940

Special-purpose tool for the work on aluminium and non-ferrous metals. PFERD product providing unusually aggressive grinding action. The tool does not clog up, even on soft, greasing aluminium.

Contains no fillers that might leave undesirable residues on the aluminium workpiece. The ground surface can be welded right away, without any further treatment.

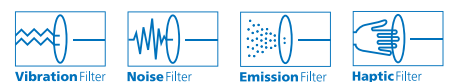
Abrasive: Special aluminium oxide A
 Grit size: 46



Workpiece materials:
 Aluminium, non-ferrous metals

Application:
 Surface grinding, work on weld seams, fillet weld grinding

Recommendation for use:
 ■ Suitable for use on angle grinders of all output categories.

Aluminium/non-ferrous metals
Very soft type – hardness grade H

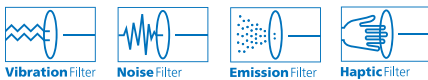
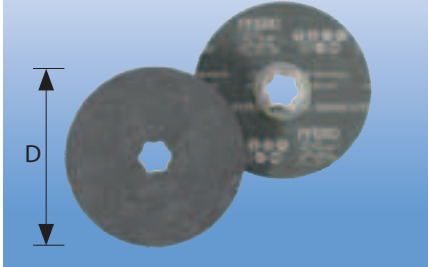


Order No.	EAN 4007220	Grit size	D x T x H [mm (Inch)]	Max. speed [RPM]		
N! E 115-7 A 46 H SGP-WHISPER-ALU/22,23	853443	46	115 x 7,4 x 22,23 (7/8)	13.300	10	1,620
N! E 125-7 A 46 H SGP-WHISPER-ALU/22,23	853450	46	125 x 7,4 x 22,23 (7/8)	12.200	10	1,940

New in the PFERD Product Line 206

Grinding Discs CC-GRIND®, Performance Line SG

Grinding disc CC-GRIND® Type STEEL



PFERD STEEL version for ultimate stock removal performance on steel.

Workpiece materials:
Steel

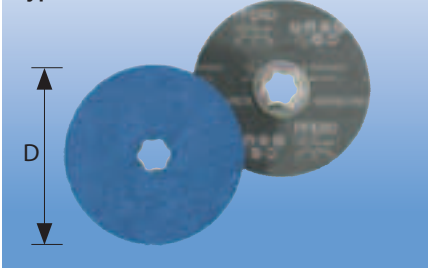
- Recommendation for use:**
- Only use CC-GRIND® grinding discs with the face of the disc.
Not suitable for circumferential grinding.
 - Avoid use on sharp edges as far as possible to prevent tool damage.

Ordering note:
Please order backing pad separately.



Order No.	EAN 4007220	D [mm]	Suitable backing pad	Max. speed [RPM]		
N! CC-GRIND 115 SG-STEEL	835876	115	GT CC-GRIND-STEEL 115/125 M14	13.300	25	0,750
N! CC-GRIND 125 SG-STEEL	835883	125	GT CC-GRIND-STEEL 115/125 M14	12.200	25	0,875

Grinding disc CC-GRIND® Type INOX





PFERD INOX version for cool grinding with very good stock removal on stainless steel (INOX).

Workpiece materials:
Stainless steel (INOX)

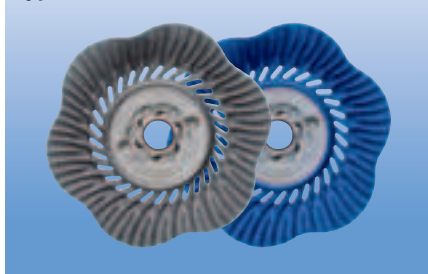
- Recommendation for use:**
- Only use CC-GRIND® grinding discs with the face of the disc.
Not suitable for circumferential grinding.
 - Avoid use on sharp edges as far as possible to prevent tool damage.

Ordering note:
Please order backing pad separately.



Order No.	EAN 4007220	D [mm]	Suitable backing pad	Max. speed [RPM]		
N! CC-GRIND 115 SG-INOX	835890	115	GT CC-GRIND-INOX 115/125 M14	13.300	25	0,750
N! CC-GRIND 125 SG-INOX	835906	125	GT CC-GRIND-INOX 115/125 M14	12.200	25	0,875

Backing pad CC-GRIND® Type STEEL/INOX



With this backing pad, CC-GRIND® grinding discs can be used on standard angle grinders.



The geometry of the cooling slits ensures high air flow. This significantly reduces the thermal load on the grinding agent and the tool.

The patented cooling and quick-mounting system reduces tool changing times to a minimum.

The special backing pad design significantly increases grinding performance.

Type STEEL = grey
Type INOX = blue

Safety notes:
The maximum permitted peripheral speed is 80 m/s.

Order No.	EAN 4007220	Thread	Suitable for machine types		
N! GT CC-GRIND-STEEL 115/125 M14	835852	M14	Angle grinders 115 and 125 with M14 spindle	1	0,165
N! GT CC-GRIND-INOX 115/125 M14	835869	M14	Angle grinders 115 and 125 with M14 spindle	1	0,165

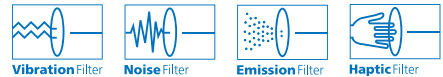




PFERD STEEL version for ultimate stock removal performance on steel.

Workpiece materials:
Steel

Recommendation for use:
■ Only use CC-GRIND®-SOLID grinding discs with the face of the disc.
Not suitable for circumferential grinding.

Ordering note:
Clamping flange set SFS, please order separately.



Order No.	EAN 4007220	D [mm]	Matching clamping flange set	Max. speed [RPM]		
N! CC-GRIND-SOLID 115 SG-STEEL	887059	115	SFS CC-GRIND-SOLID 115/125 M14, SFS CC-GRIND-SOLID 115/125 5/8"	13.300	10	0,750
N! CC-GRIND-SOLID 125 SG-STEEL	887073	125	SFS CC-GRIND-SOLID 115/125 M14, SFS CC-GRIND-SOLID 115/125 5/8"	12.200	10	0,850
N! CC-GRIND-SOLID 180 SG-STEEL	887080	180	SFS CC-GRIND-SOLID 180 M14, SFS CC-GRIND-SOLID 180 5/8"	8.500	10	1,650





PFERD INOX version for very good stock removal on stainless steel (INOX).

Workpiece materials:
Stainless steel (INOX)

Recommendation for use:
■ Only use CC-GRIND®-SOLID grinding discs with the face of the disc.
Not suitable for circumferential grinding.

Ordering note:
Clamping flange set SFS, please order separately.





Order No.	EAN 4007220	D [mm]	Matching clamping flange set	Max. speed [RPM]		
N! CC-GRIND-SOLID 115 SG-INOX	900895	115	SFS CC-GRIND-SOLID 115/125 M14, SFS CC-GRIND-SOLID 115/125 5/8"	13.300	10	0,750
N! CC-GRIND-SOLID 125 SG-INOX	900901	125	SFS CC-GRIND-SOLID 115/125 M14, SFS CC-GRIND-SOLID 115/125 5/8"	12.200	10	0,850
N! CC-GRIND-SOLID 180 SG-INOX	900918	180	SFS CC-GRIND-SOLID 180 M14, SFS CC-GRIND-SOLID 180 5/8"	8.500	10	1,650

With this special clamping flange set, **only** the original CC-GRIND®-SOLID grinding discs can be used on standard angle grinders.

The geometry of the cooling slits ensures high air flow. This perceptibly reduces the thermal load on the grinding agent and the workpiece.

Safety notes:
The maximum permitted peripheral speed is 80 m/s.



Order No.	EAN 4007220	Thread	Suitable for machine types		
N! SFS CC-GRIND-SOLID 115/125 M14	887578	M14	Angle grinders 115 and 125 with M14 spindle	1	0,050
N! SFS CC-GRIND-SOLID 180 M14	887585	M14	Angle grinders 180 with M14 spindle	1	0,065
N! SFS CC-GRIND-SOLID 115/125 5/8"	887592	5/8"	Angle grinders 115 and 125 with 5/8" spindle	1	0,050
N! SFS CC-GRIND-SOLID 180 5/8"	887608	5/8"	Angle grinders 180 with 5/8" spindle	1	0,065

New in the PFERD Product Line 206

POLIFAN® Flap Discs, Universal Line PSF

Steel/INOX
Type PSF ZIRKON



Tool for demanding general-purpose applications. PFERD product characterized by aggressive grinding action and long service life, particularly when used for edge grinding.

Abrasive: Zirconia alumina Z

Grit sizes: 40, 60, 80, 120

Workpiece materials:



Steel, stainless steel (INOX)

Application:

Surface grinding, work on weld seams

Recommendation for use:

- Optimum stock removal rates are achieved with high-powered angle grinders used at higher application pressures.

Order No.	EAN 4007220	Grit size	D x T x H [mm (Inch)]	Max. speed [RPM]		
Flat type PFF						
PFF 115 Z 40 PSF/22,23	512487	40	115 x 15 x 22,23 (7/8)	13.300	10	0,850
PFF 115 Z 60 PSF/22,23	512494	60	115 x 14 x 22,23 (7/8)	13.300	10	0,800
PFF 115 Z 80 PSF/22,23	512500	80	115 x 14 x 22,23 (7/8)	13.300	10	0,780
PFF 125 Z 40 PSF/22,23	512517	40	125 x 15 x 22,23 (7/8)	12.200	10	1,000
PFF 125 Z 60 PSF/22,23	512524	60	125 x 14 x 22,23 (7/8)	12.200	10	0,920
PFF 125 Z 80 PSF/22,23	512531	80	125 x 14 x 22,23 (7/8)	12.200	10	0,900
PFF 180 Z 40 PSF/22,23	512548	40	180 x 15 x 22,23 (7/8)	8.500	10	2,400
PFF 180 Z 60 PSF/22,23	512555	60	180 x 15 x 22,23 (7/8)	8.500	10	2,230
Conical type PFC						
PFC 115 Z 40 PSF/22,23	377352	40	115 x 14 x 22,23 (7/8)	13.300	10	0,850
PFC 115 Z 60 PSF/22,23	444597	60	115 x 14 x 22,23 (7/8)	13.300	10	0,800
PFC 115 Z 80 PSF/22,23	377369	80	115 x 14 x 22,23 (7/8)	13.300	10	0,760
NI PFC 115 Z 120 PSF/22,23	934203	120	115 x 14 x 22,23 (7/8)	13.300	10	0,760
PFC 125 Z 40 PSF/22,23	377345	40	125 x 14 x 22,23 (7/8)	12.200	10	1,000
PFC 125 Z 60 PSF/22,23	444078	60	125 x 14 x 22,23 (7/8)	12.200	10	0,950
PFC 125 Z 80 PSF/22,23	377338	80	125 x 14 x 22,23 (7/8)	12.200	10	0,890
NI PFC 125 Z 120 PSF/22,23	934210	120	125 x 14 x 22,23 (7/8)	12.200	10	0,910
PFC 150 Z 40 PSF/22,23	805923	40	150 x 14 x 22,23 (7/8)	10.200	10	1,750
PFC 150 Z 60 PSF/22,23	805930	60	150 x 14 x 22,23 (7/8)	10.200	10	1,700
PFC 180 Z 40 PSF/22,23	377321	40	180 x 14 x 22,23 (7/8)	8.500	10	2,300
PFC 180 Z 60 PSF/22,23	444085	60	180 x 14 x 22,23 (7/8)	8.500	10	2,260
NI PFC 180 Z 80 PSF/22,23	934227	80	180 x 14 x 22,23 (7/8)	8.500	10	2,260
NI PFC 180 Z 120 PSF/22,23	934234	120	180 x 14 x 22,23 (7/8)	8.500	10	2,260





High performance tool for maximum cost-efficiency in demanding grinding jobs. PFERD product characterized by aggressive grinding action and exceptional tool life.

Abrasive: Zirconia alumina Z

Grit sizes: 40, 60, 80, 120

Workpiece materials:

Steel, stainless steel (INOX)



Application:

Work on weld seams, chamfering, surface grinding on steel

Recommendation for use:

■ Zirconia alumina grain is a high-performance abrasive medium delivering optimum performance on high-powered angle grinders at higher contact pressures.



Order No.	EAN 4007220	Grit size	D x T x H [mm (Inch)]	Max. speed [RPM]		
Flat type PFF						
PFF 115 Z 40 SG/22,23	167618	40	115 x 18 x 22,23 (7/8)	13.300	10	1,100
PFF 115 Z 60 SG/22,23	167649	60	115 x 18 x 22,23 (7/8)	13.300	10	1,100
PFF 125 Z 40 SG/22,23	167625	40	125 x 18 x 22,23 (7/8)	12.200	10	1,300
PFF 125 Z 60 SG/22,23	167656	60	125 x 18 x 22,23 (7/8)	12.200	10	1,200
PFF 180 Z 40 SG/22,23	167632	40	180 x 20 x 22,23 (7/8)	8.500	10	3,100
PFF 180 Z 60 SG/22,23	167663	60	180 x 18 x 22,23 (7/8)	8.500	10	2,800
Conical type PFC						
PFC 115 Z 40 SG/22,23	167922	40	115 x 17 x 22,23 (7/8)	13.300	10	1,100
PFC 115 Z 60 SG/22,23	167953	60	115 x 17 x 22,23 (7/8)	13.300	10	1,100
N! PFC 115 Z 80 SG/22,23	934241	80	115 x 17 x 22,23 (7/8)	13.300	10	1,070
N! PFC 115 Z 120 SG/22,23	934258	120	115 x 17 x 22,23 (7/8)	13.300	10	1,070
PFC 125 Z 40 SG/22,23	167939	40	125 x 17 x 22,23 (7/8)	12.200	10	1,200
PFC 125 Z 60 SG/22,23	167960	60	125 x 17 x 22,23 (7/8)	12.200	10	1,140
N! PFC 125 Z 80 SG/22,23	934265	80	125 x 17 x 22,23 (7/8)	12.200	10	1,180
N! PFC 125 Z 120 SG/22,23	934272	120	125 x 17 x 22,23 (7/8)	12.200	10	1,180
PFC 180 Z 40 SG/22,23	167946	40	180 x 20 x 22,23 (7/8)	8.500	10	3,100
PFC 180 Z 60 SG/22,23	167977	60	180 x 17 x 22,23 (7/8)	8.500	10	2,800
N! PFC 180 Z 80 SG/22,23	934289	80	180 x 17 x 22,23 (7/8)	8.500	10	2,480
N! PFC 180 Z 120 SG/22,23	934296	120	180 x 17 x 22,23 (7/8)	8.500	10	2,480

New in the PFERD Product Line 206

POLIFAN® Flap Discs, Performance Line SG



**INOX/aluminium/non-ferrous metals
Type SG A-COOL**



Professional tool for grinding to high surface finish standards with low heat input. PFERD product characterized by particularly low heat build-up on materials of poor thermal conductivity.



Abrasive: Aluminium oxide A with coating
Grit sizes: 40, 60, 80, 120

Workpiece materials:
Stainless steel (INOX), aluminium, non-ferrous metals

Application:
Cool surface grinding, work on weld seams

- Recommendation for use:**
- Ensures low build-up of heat in the workpiece when used with minimum contact pressure on variable-speed angle grinders at low RPM levels.
 - Performs exceptionally well on sheet metal and thin sectional material.



Order No.	EAN 4007220	Grit size	D x T x H [mm (Inch)]	Max. speed [RPM]		
Flat type PFF						
PFF 100 A 40 SG-COOL/16,0	262764	40	100 x 15 x 16,0 (5/8)	15.300	10	0,860
PFF 100 A 60 SG-COOL/16,0	262771	60	100 x 14 x 16,0 (5/8)	15.300	10	0,800
PFF 100 A 80 SG-COOL/16,0	262788	80	100 x 14 x 16,0 (5/8)	15.300	10	0,770
N! PFF 100 A 120 SG-COOL/16,0	934678	120	100 x 14 x 16,0 (5/8)	15.300	10	0,770
PFF 115 A 40 SG-COOL/22,23	222737	40	115 x 18 x 22,23 (7/8)	13.300	10	1,100
PFF 115 A 60 SG-COOL/22,23	222744	60	115 x 17 x 22,23 (7/8)	13.300	10	1,100
PFF 115 A 80 SG-COOL/22,23	222751	80	115 x 17 x 22,23 (7/8)	13.300	10	1,040
N! PFF 115 A 120 SG-COOL/22,23	934685	120	115 x 17 x 22,23 (7/8)	13.300	10	0,940
PFF 125 A 40 SG-COOL/22,23	232910	40	125 x 18 x 22,23 (7/8)	12.200	10	1,300
PFF 125 A 60 SG-COOL/22,23	232934	60	125 x 17 x 22,23 (7/8)	12.200	10	1,200
PFF 125 A 80 SG-COOL/22,23	232958	80	125 x 17 x 22,23 (7/8)	12.200	10	1,200
N! PFF 125 A 120 SG-COOL/22,23	934692	120	125 x 17 x 22,23 (7/8)	12.200	10	1,110
PFF 180 A 40 SG-COOL/22,23	222768	40	180 x 18 x 22,23 (7/8)	8.500	10	2,800
PFF 180 A 60 SG-COOL/22,23	232989	60	180 x 17 x 22,23 (7/8)	8.500	10	2,600
PFF 180 A 80 SG-COOL/22,23	233009	80	180 x 17 x 22,23 (7/8)	8.500	10	2,600
N! PFF 180 A 120 SG-COOL/22,23	934708	120	180 x 17 x 22,23 (7/8)	8.500	10	2,280
Conical type PFC						
PFC 115 A 40 SG-COOL/22,23	232880	40	115 x 17 x 22,23 (7/8)	13.300	10	1,170
PFC 115 A 60 SG-COOL/22,23	232897	60	115 x 16 x 22,23 (7/8)	13.300	10	1,100
PFC 115 A 80 SG-COOL/22,23	232903	80	115 x 16 x 22,23 (7/8)	13.300	10	1,100
N! PFC 115 A 120 SG-COOL/22,23	934647	120	115 x 16 x 22,23 (7/8)	13.300	10	0,970
PFC 125 A 40 SG-COOL/22,23	232927	40	125 x 17 x 22,23 (7/8)	12.200	10	1,300
PFC 125 A 60 SG-COOL/22,23	232941	60	125 x 16 x 22,23 (7/8)	12.200	10	1,300
PFC 125 A 80 SG-COOL/22,23	232965	80	125 x 16 x 22,23 (7/8)	12.200	10	1,200
N! PFC 125 A 120 SG-COOL/22,23	934654	120	125 x 16 x 22,23 (7/8)	12.200	10	1,110
PFC 180 A 40 SG-COOL/22,23	232972	40	180 x 17 x 22,23 (7/8)	8.500	10	2,800
PFC 180 A 60 SG-COOL/22,23	232996	60	180 x 16 x 22,23 (7/8)	8.500	10	2,600
PFC 180 A 80 SG-COOL/22,23	233016	80	180 x 16 x 22,23 (7/8)	8.500	10	2,400
N! PFC 180 A 120 SG-COOL/22,23	934661	120	180 x 16 x 22,23 (7/8)	8.500	10	2,270



The patented POLIFAN®-STRONG construction shape opens up a completely new dimension in grinding work. Alongside the version SGP ZIRKON-STRONG, PFERD now also offers this high-performance tool as the SGP CO-STRONG-FREEZE version for working materials with low heat-conducting properties such as stainless steel (INOX).

Superb features give great benefit as far as performance is concerned:

- Quick grinding due to consistent highly-abrasive quality right up to the last abrasive grain.
- Maximum economic efficiency due to increased performance per time unit and less wear on discs.

- Largest possible stock removal.
- Extremely long tool life.
- Maximum economic efficiency due to fewer tool changes and setup times.
- Optimum use of your high-performance tool drive.

Recommendations for use

- **Grit size 36** is optimally suitable for high stock removal, e.g. for weld dressing.
- **Grit size 50** is optimally suitable for work on edges, e.g. for chamfering or to achieve fine surface finishes.



PFERD high-performance tool in the SGP ZIRKON-STRONG version for demanding grinding work with particularly high stock removal performance.

Abrasive: Zirconia alumina Z

Grit sizes: 36, 50



Workpiece materials:

Steel

Application:

Work on weld seams, chamfering, deburring



Order No.	EAN 4007220	Grit size	D x T x H [mm (Inch)]	Max. speed [RPM]		
Conical type PFC						
PFC 115 Z 36 SGP-STRONG/22,23	777862	36	115 x 18 x 22,23 (7/8)	13.300	10	1,200
PFC 115 Z 50 SGP-STRONG/22,23	777879	50	115 x 18 x 22,23 (7/8)	13.300	10	1,200
PFC 125 Z 36 SGP-STRONG/22,23	777886	36	125 x 18 x 22,23 (7/8)	12.200	10	1,320
PFC 125 Z 50 SGP-STRONG/22,23	777893	50	125 x 18 x 22,23 (7/8)	12.200	10	1,320
N! PFC 180 Z 36 SGP-STRONG/22,23	827468	36	180 x 18 x 22,23 (7/8)	8.600	10	2,600
N! PFC 180 Z 50 SGP-STRONG/22,23	827482	50	180 x 18 x 22,23 (7/8)	8.600	10	2,600



New in the PFERD Product Line 206

POLIFAN® Flap Discs, Special Line SGP

INOX
Type SGP CO-STRONG-FREEZE

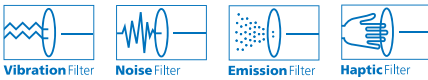




High-performance tool in the SGP CO-STRONG-FREEZE version for the most demanding of grinding tasks. The innovative abrasive with ceramic grit guarantees ultra-cool grinding on materials with poor heat-conducting properties. Maximum material removal and outstanding service life.

Abrasive: Ceramic oxide CO
Grit sizes: 36, 50

Workpiece materials:
Stainless steel (INOX), other materials with poor heat-conducting properties

Application:
Surface grinding, work on weld seams



Order No.	EAN 4007220	Grit size	D x T x H [mm (Inch)]	Max. speed [RPM]		
Conical type PFC						
N! PFC 115 CO 36 SGP-STRONG-FREEZE/22,23	835296	36	115 x 18 x 22,23 (7/8)	13.300	10	1,020
N! PFC 115 CO 50 SGP-STRONG-FREEZE/22,23	835302	50	115 x 18 x 22,23 (7/8)	13.300	10	1,020
N! PFC 125 CO 36 SGP-STRONG-FREEZE/22,23	835319	36	125 x 18 x 22,23 (7/8)	12.200	10	1,320
N! PFC 125 CO 50 SGP-STRONG-FREEZE/22,23	835326	50	125 x 18 x 22,23 (7/8)	12.200	10	1,320
N! PFC 180 CO 36 SGP-STRONG-FREEZE/22,23	835333	36	180 x 18 x 22,23 (7/8)	8.500	10	2,600
N! PFC 180 CO 50 SGP-STRONG-FREEZE/22,23	835340	50	180 x 18 x 22,23 (7/8)	8.500	10	2,600



POLIFAN®-CURVE is a PFERD innovation for work on fillet welds. As well as the SGP ZIRKON-CURVE version and the SGP CO-CURVE version, PFERD also supplies a high-power tool for aluminium applications.

The unique radial construction shape (PFR) has unique advantages for any difficult and demanding work on fillet welds due to its special flap design arrangement:

- Unequalled quick and highly abrasive grinding due to high stock removal, and therefore substantial savings on labour costs.
- Precise and optimum grinding out of fillet welds.
- Dimensional stability for high-quality work results.

High-power tool in the SGP ZIRKON-CURVE PFERD version for demanding grinding work with particularly high machining capacity.

Abrasive: Zirconia alumina Z
Grit size: 40

- Excellent tool life when working on fillet welds.
- Optimum use of the grinding material on the radius.

Recommendations for use

- The best results are achieved on high-performance angle grinders.
- **Type M** for fillet weld radii > 5 mm
- **Type L** for fillet weld radii > 8 mm

Workpiece materials:

Steel, stainless steel (INOX)



Application:

Fillet weld grinding, chamfering, deburring



Steel/INOX
Type SGP ZIRKON-CURVE



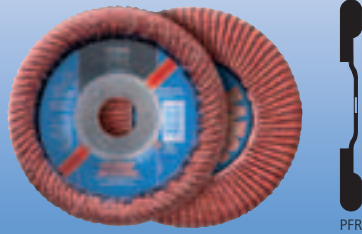
Order No.	EAN 4007220	Grit size	Fillet weld width	D x T x H [mm (Inch)]	Max. speed [RPM]		
Radial type PFR							
N! PFR 115 Z 40 SGP-CURVE M/22,23	821671	40	> 5 mm	115 x 14 x 22,23 (7/8)	13.300	10	0,800
N! PFR 115 Z 40 SGP-CURVE L/22,23	821695	40	> 8 mm	115 x 16 x 22,23 (7/8)	13.300	10	1,050
PFR 125 Z 40 SGP-CURVE M/22,23	790151	40	> 5 mm	125 x 14 x 22,23 (7/8)	12.200	10	1,055
PFR 125 Z 40 SGP-CURVE L/22,23	790175	40	> 8 mm	125 x 16 x 22,23 (7/8)	12.200	10	1,225



New in the PFERD Product Line 206

POLIFAN® Flap Discs, Special Line SGP

INOX/Steel Type SGP CO-CURVE

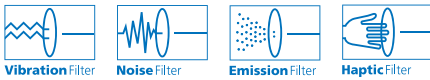
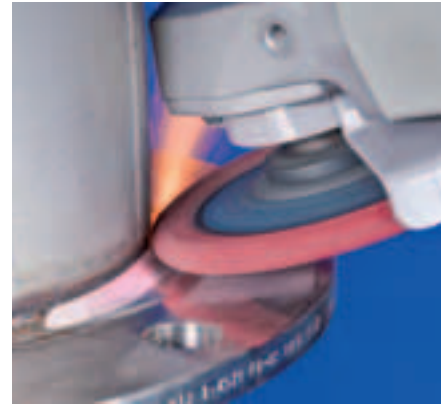



High-power tool in the SGP CO-CURVE PFERD version for demanding grinding work, especially for achieving fine surface finishes. The ceramic grit guarantees extremely cool grinding on poor heat-conducting materials, which means optimum grinding results without thermal damage to workpiece.

Abrasive: Ceramic oxide CO
Grit size: 60

Workpiece materials:
Stainless steel (INOX), steel

Application:
Fillet weld grinding, chamfering, deburring



Order No.	EAN 4007220	Grit size	Fillet weld width	D x T x H [mm (Inch)]	Max. speed [RPM]		
Radial type PFR							
N! PFR 115 CO 60 SGP-CURVE M/22,23	827444	60	> 5 mm	115 x 14 x 22,23 (7/8)	13.300	10	0,800
N! PFR 115 CO 60 SGP-CURVE L/22,23	827451	60	> 8 mm	115 x 16 x 22,23 (7/8)	13.300	10	1,050
N! PFR 125 CO 60 SGP-CURVE M/22,23	790168	60	> 5 mm	125 x 14 x 22,23 (7/8)	12.200	10	1,050
N! PFR 125 CO 60 SGP-CURVE L/22,23	790182	60	> 8 mm	125 x 16 x 22,23 (7/8)	12.200	10	1,250

Aluminium/non ferrous metals Type SGP CURVE-ALU



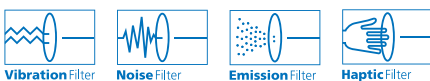
High-power tool in the SGP CURVE-ALU PFERD version for demanding grinding work. Especially for work on aluminium. Operates without tool loading problems, even on soft, greasing materials.



Contains no fillers that might leave undesirable residues on the aluminium workpiece. The ground surface can be welded right away, without any further treatment.

Abrasive: Aluminium oxide A
Grit size: 40

Workpiece materials:
Aluminium, non ferrous metals

Application:
Fillet weld grinding, chamfering, deburring



Order No.	EAN 4007220	Grit size	Fillet weld width	D x T x H [mm (Inch)]	Max. speed [RPM]		
Radial type PFR							
N! PFR 115 A 40 SGP-CURVE L ALU/22,23	851968	40	> 8 mm	115 x 16 x 22,23 (7/8)	13.300	10	0,800
N! PFR 125 A 40 SGP-CURVE L ALU/22,23	851975	40	> 8 mm	125 x 16 x 22,23 (7/8)	12.200	10	1,050

Performance tool of hardness grade N-Alu.
 Non-loading PFERD product characterized by high cutting performance and very long tool life.

Abrasive: Aluminium oxide A

Contains no fillers which might leave an undesirable surface residue. The workpiece can be welded right away, without any further treatment.

Workpiece materials:

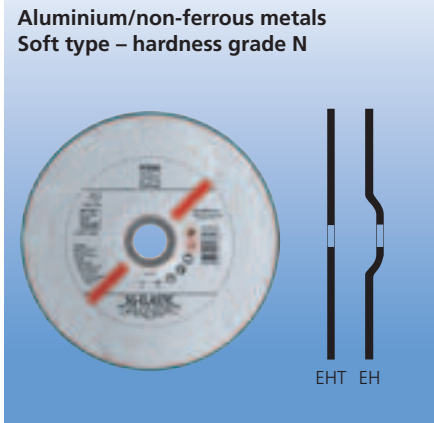
Tough and hard aluminium, non-ferrous metals



Application:

Cutting of steel metal, sectional and solid materials

Recommendation for use:

- Disc thickness 1,0/1,6 mm for fast, convenient cutting with minimized burr formation.
- Disc thickness 2,4 mm for universal cutting work.
- Disc thickness 2,9 mm for maximum tool life with high lateral stability.
- Suitable for angle grinders of all output levels.
- The use of large clamping flanges SFS 76 (tool manual, catalogue 206, page 49) increases the lateral stability and ensures accurate disc guidance, in particular for thin cut-off wheels flat type, dia. 178 and 230 mm.



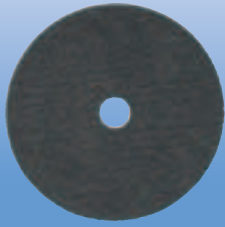
Order No.	EAN 4007220	EN-designation	D x T/U x H [mm (inch)]	Max. speed [RPM]		
Depressed centre type (form 42)						
EH 115-2,4 A 30 N SG-ALU/22,23	522936	42 A 30 N BF 80	115 x 2,4 x 22,23 (7/8)	13.300	25	1,500
EH 125-2,4 A 30 N SG-ALU/22,23	389027	42 A 30 N BF 80	125 x 2,4 x 22,23 (7/8)	12.200	25	1,850
EH 178-2,9 A 24 N SG-ALU/22,23	538517	42 A 24 N BF 80	178 x 2,9 x 22,23 (7/8)	8.600	25	4,025
EH 230-2,9 A 24 N SG-ALU/22,23	538548	42 A 24 N BF 80	230 x 2,9 x 22,23 (7/8)	6.600	25	7,300
Flat type EHT (form 41)						
N! EHT 100-1,0 A 60 N SG-ALU/16,0	885222	41 A 60 N BF 80	100 x 1,0 x 16,0 (5/8)	15.300	25	0,550
EHT 115-1,0 A 60 N SG-ALU/22,23	804964	41 A 60 N BF 80	115 x 1,0 x 22,23 (7/8)	13.300	25	0,625
EHT 115-1,6 A 46 N SG-ALU/22,23	804988	41 A 46 N BF 80	115 x 1,6 x 22,23 (7/8)	13.300	25	1,000
EHT 115-2,4 A 30 N SG-ALU/22,23	617892	41 A 30 N BF 80	115 x 2,4 x 22,23 (7/8)	13.300	25	1,475
EHT 125-1,0 A 60 N SG-ALU/22,23	804995	41 A 60 N BF 80	125 x 1,0 x 22,23 (7/8)	12.200	25	0,750
EHT 125-1,6 A 46 N SG-ALU/22,23	805008	41 A 46 N BF 80	125 x 1,6 x 22,23 (7/8)	12.200	25	1,200
EHT 125-2,4 A 30 N SG-ALU/22,23	617786	41 A 30 N BF 80	125 x 2,4 x 22,23 (7/8)	12.200	25	1,850
EHT 178-1,6 A 46 N SG-ALU/22,23	805015	41 A 46 N BF 80	178 x 1,6 x 22,23 (7/8)	8.600	25	2,325
EHT 178-2,9 A 24 N SG-ALU/22,23	538487	41 A 24 N BF 80	178 x 2,9 x 22,23 (7/8)	8.600	25	4,025
EHT 230-2,9 A 24 N SG-ALU/22,23	538524	41 A 24 N BF 80	230 x 2,9 x 22,23 (7/8)	6.600	25	7,300



New in the PFERD Product Line 206

Cut-Off Wheels, Performance Line SG-ELASTIC

Steel/INOX/cast iron/non-ferr. metals
Medium-hard type – hardness grade P



EHT

Multipurpose tool in hardness grade P for cool cutting.

PFERD product with high cutting performance and long tool life.

Abrasive: Aluminium oxide A

Manufactured without addition of ferrous, sulphurous or chlorinated fillers.

Workpiece materials:

Steel, stainless steel (INOX), highly heat resistant steels, cast iron, non-ferrous metals, nickel based alloys

Application:



Cutting of steel metal, sections and solid materials

Recommendation for use:

- For universal cutting work, specially designed for hard-to-reach places.
- For use on electric and air-powered straight grinders of all output levels.
- Can be used with mounted arbor on grinders up to the maximum arbor RPM.

Ordering note:

Please order the arbor as a separate item.

Order No.	EAN 4007220	EN-designation	D x T x H [mm (Inch)]	Max. speed [RPM]		
EHT 30-1,1 A 60 P SG/6,0	165621	41 A 60 P BF 80	30 x 1,1 x 6,0 (1/4)	51.000	50	0,100
EHT 30-1,4 A 60 P SG/6,0	165638	41 A 60 P BF 80	30 x 1,4 x 6,0 (1/4)	51.000	50	0,150
EHT 40-1,1 A 60 P SG/6,0	165645	41 A 60 P BF 80	40 x 1,1 x 6,0 (1/4)	38.200	50	0,200
EHT 40-2,1 A 46 P SG/6,0	165652	41 A 46 P BF 80	40 x 2,1 x 6,0 (1/4)	38.200	50	0,300
N! EHT 50-0,8 A 60 P SG/6,0	849156	41 A 60 P BF 80	50 x 0,8 x 6,0 (1/4)	30.600	50	0,200
EHT 50-1,1 A 60 P SG/6,0	165669	41 A 60 P BF 80	50 x 1,1 x 6,0 (1/4)	30.600	50	0,250
EHT 50-1,4 A 60 P SG/6,0	165676	41 A 60 P BF 80	50 x 1,4 x 6,0 (1/4)	30.600	50	0,300
EHT 50-2,1 A 46 P SG/6,0	165683	41 A 46 P BF 80	50 x 2,1 x 6,0 (1/4)	30.600	50	0,450
EHT 50-3,0 A 46 P SG/6,0	165690	41 A 46 P BF 80	50 x 3,0 x 6,0 (1/4)	30.600	50	0,600
N! EHT 65-0,8 A 60 P SG/6,0	849187	41 A 60 P BF 80	65 x 0,8 x 6,0 (1/4)	23.500	50	0,350
N! EHT 65-0,8 A 60 P SG/10,0	849194	41 A 60 P BF 80	65 x 0,8 x 10,0 (25/64)	23.500	50	0,350
EHT 65-1,1 A 60 P SG/6,0	165706	41 A 60 P BF 80	65 x 1,1 x 6,0 (1/4)	23.500	50	0,400
EHT 65-1,1 A 60 P SG/10,0	165713	41 A 60 P BF 80	65 x 1,1 x 10,0 (25/64)	23.500	50	0,400
EHT 65-1,4 A 60 P SG/10,0	165720	41 A 60 P BF 80	65 x 1,4 x 10,0 (25/64)	23.500	50	0,500
EHT 65-2,1 A 46 P SG/10,0	165737	41 A 46 P BF 80	65 x 2,1 x 10,0 (25/64)	23.500	50	0,750
EHT 65-3,0 A 46 P SG/10,0	165744	41 A 46 P BF 80	65 x 3,0 x 10,0 (25/64)	23.500	50	1,000
EHT 70-1,1 A 60 P SG/10,0	165751	41 A 60 P BF 80	70 x 1,1 x 10,0 (25/64)	21.800	50	0,450
EHT 70-1,4 A 60 P SG/10,0	165768	41 A 60 P BF 80	70 x 1,4 x 10,0 (25/64)	21.800	50	0,550
EHT 70-2,1 A 46 P SG/10,0	165775	41 A 46 P BF 80	70 x 2,1 x 10,0 (25/64)	21.800	50	0,850
EHT 70-3,0 A 46 P SG/10,0	165782	41 A 46 P BF 80	70 x 3,0 x 10,0 (25/64)	21.800	50	1,150
N! EHT 76-0,8 A 60 P SG/6,0	849217	41 A 60 P BF 80	76 x 0,8 x 6,0 (1/4)	20.100	50	0,450
N! EHT 76-0,8 A 60 P SG/10,0	849200	41 A 60 P BF 80	76 x 0,8 x 10,0 (25/64)	20.100	50	0,450
EHT 76-1,1 A 60 P SG/6,0	165812	41 A 60 P BF 80	76 x 1,1 x 6,0 (1/4)	20.100	50	0,550
EHT 76-1,1 A 60 P SG/10,0	165829	41 A 60 P BF 80	76 x 1,1 x 10,0 (25/64)	20.100	50	0,550
EHT 76-1,4 A 60 P SG/10,0	165836	41 A 60 P BF 80	76 x 1,4 x 10,0 (25/64)	20.100	50	0,650
EHT 76-2,1 A 46 P SG/10,0	165843	41 A 46 P BF 80	76 x 2,1 x 10,0 (25/64)	20.100	50	1,000
EHT 76-3,0 A 46 P SG/10,0	165850	41 A 46 P BF 80	76 x 3,0 x 10,0 (25/64)	20.100	50	1,350



Extremely sleek high-power tool in S-INOX hardness.

New PFERD version with ultimate cutting performance and unrivaled tool life:

- extremely cool,
- very fast,
- especially convenient,
- supremely low-burr.

Abrasive: Aluminium oxide A

Manufactured without addition of ferrous, sulphurous and chlorinated fillers.

Workpiece materials:

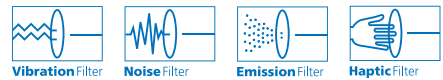
Stainless steel (INOX)



Application:

Cutting thin-walled sheets and profiles

Recommendation for use:

- The X-SLIM produces a convincing cutting performance even on low-output drive machines.
- The X-SLIM from PFERD meets all the safety requirements of EN 12413.



Order No.	EAN 4007220	EN-designation	D x T/U x H [mm (Inch)]	Max. speed [RPM]		
Flat type EHT (form 41)						
N! EHT 100-0,8 A 60 S SGP-INOX X-SLIM/16,0	845103	41 A 60 S BF 80	100 x 0,8 x 16,0 (5/8)	15.300	25	0,425
N! EHT 115-0,8 A 60 S SGP-INOX X-SLIM/22,23	835357	41 A 60 S BF 80	115 x 0,8 x 22,23 (7/8)	13.300	25	0,500
N! EHT 125-0,8 A 60 S SGP-INOX X-SLIM/22,23	835364	41 A 60 S BF 80	125 x 0,8 x 22,23 (7/8)	12.200	25	0,625



New in the PFERD Product Line 207

Stationary Cut-Off Wheels, Universal Line PS-FORTE, CHOPSAW

Steel
Very soft type – hardness grade K



Multi-purpose tool of hardness grade K for abrasive cutting operations using stationary machines.

PFERD product characterized by aggressive abrasive performance for fast cuts and long tool life.

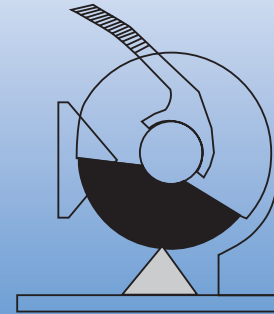
Abrasive: Aluminium oxide A



Workpiece materials:
 Steel

Application:
 Cutting of solid material, sections and pipes

Recommendation for use:
 ■ Provides excellent cutting results on machines with up to 3 KW output.

< 3 KW



Order No.	EAN 4007220	EN-designation	D x T x H [mm (Inch)]	Max. speed [RPM]		
Maximum operating speed 80 m/s, flat type T (Form 41)						
N! 80 T 300-2,8 A 36 K PSF-CHOP/25,4	832264	41 A 36 K BF 80	300 x 2,8 x 25,4 (1)	5.100	20	9,100
N! 80 T 350-2,8 A 36 K PSF-CHOP/25,4	817605	41 A 36 K BF 80	350 x 2,8 x 25,4 (1)	4.400	10	6,210
N! 80 T 400-3,8 A 36 K PSF-CHOP/25,4	832271	41 A 36 K BF 80	400 x 3,8 x 25,4 (1)	3.800	10	10,360



Alongside brushes with plastic filament and embedded abrasive grit, PFERD now also supplies brushes with plastic filament without abrasive grit.

The flexible filament material makes them less aggressive than brushes with steel wire or SiC filament.

They are particularly suitable for working materials such as soft plastics which would otherwise become scratched or damaged.

They are used for light cleaning work (e.g. removal of chips or light deposits), for fine surface finishing and for deburring (e.g.

removal of light flash from duroplastics and thermoplastics).

Packaging unit: 1 piece

Recommendation for use:

■ Suitable drive systems: flexible shafts, wheel stand grinders, stationary machines and use of robots.

Ordering example:

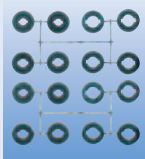
EAN 4007220899298
RBU 10012/12,0 Nylon 0,40 SG

RBU = Wheel brushes, individual filament type, slim type



Nylon, performance line SG

Order No.	EAN 4007220	Wire dia. d ₆ [mm]	Brush dia. d ₁ [mm]	Trim width b [mm]	Trim length l ₂ [mm]	Arbor hole dia. d ₂ [mm]	Basic hole dia. [mm]	Recom. speed [RPM]	Max. speed [RPM]	
N! RBU 10012/12,0 Nylon 0,40 SG	899298	0,40	100	12	22	12,0	12,0	3.200 - 5.200	8.000	0,160
N! RBU 15016/12,0 Nylon 0,40 SG	899304	0,40	150	16	32	12,0	31,8	3.200 - 5.200	8.000	0,310
N! RBU 20016/22,2 Nylon 0,40 SG	899311	0,40	200	16	32	22,2	31,8	2.400 - 3.900	6.000	0,680



In order to change the arbor hole dia, please use the adapter set AK 32 (EAN 4007220608593). **Exception:** brushes with dia. 100 and 125 mm cannot be used with adapter set AK 32.



BO 8/12-22,2 5-18 (EAN 4007220751923) is suitable for all slim brushes up to dia. 150 mm with arbor hole.

For safety reasons, the use of arbors is limited for brushes with max. dia. 150 mm!

Please refer to Tool Manual 21, catalogue 208, page 43 for detailed information and ordering data on matching adapter systems and accessory parts.



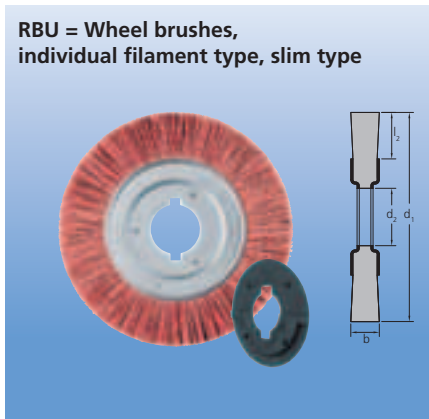
New in the PFERD Product Line 208

Wheel Brushes with Arbor Hole, Individual Filament Type

The selection of the right abrasive grain is important for the optimum solution of different processing tasks. PFERD supplies the filament versions silicon carbide (SiC) and ceramic grain (CO) for technical brushes for use with different applications and materials.

In both cases, the abrasive grains are integrated in flexible nylon bristles. As the base material becomes worn, new abrasive grains come to the surface, guaranteeing the constant abrasiveness of the brush.

Compared with versions with silicon carbide or aluminium oxide, brushes with ceramic grain (CO) stand out through their material strength and very good cutting quality. They are always the right choice whenever high removal rates and highly abrasive brush working is required.



RBU = Wheel brushes, individual filament type, slim type

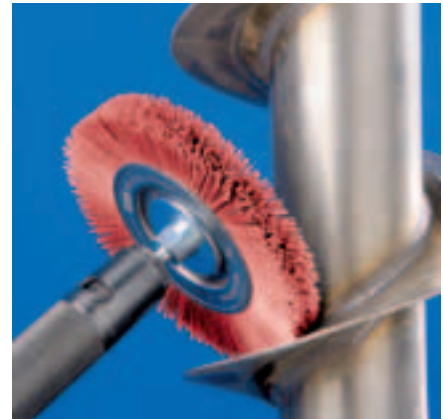
Wheel brushes slim type with ceramic grain (CO) filament are mainly used for deburring, cleaning and grinding components made of steel, plastic and NF-metals.

In contrast to brushes with silicon carbide (SiC) filament, the red grinding brushes are interspersed with ceramic grain. This leads to maximum stock removal particularly during the processing of construction steels and highly heat resisting materials.


Packaging unit: 1 piece

Recommendation for use:

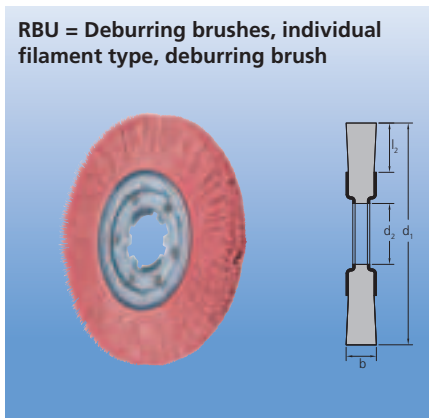
- Suitable drives: grinder benches, stationary machines and flexible shafts.



Plastic ceramic grain CO, special line SGP

Order No.	EAN 4007220	Wire dia. d ₆ [mm]	Brush dia. d ₁ [mm]	Trim width b [mm]	Trim length l ₂ [mm]	Arbor hole dia. d ₂ [mm]	Basic hole dia. [mm]	Recom. speed [RPM]	Max. speed [RPM]		
NI RBU 10012/12,0 CO 120 1,10 SGP	837269	1,10	100	12	22	12,0	12,0	3.200 - 5.200	8.000	0,160	
NI RBU 15016/12,0 CO 120 1,10 SGP	837276	1,10	150	16	28	12,0	31,8	2.400 - 3.900	6.000	0,356	
NI RBU 20016/22,2 CO 120 1,10 SGP	837283	1,10	200	16	38	22,2	31,8	1.800 - 2.900	4.500	0,790	

Deburring Brushes, Individual Filament Type



RBU = Deburring brushes, individual filament type, deburring brush

Deburring brushes with ceramic grain (CO) are excellent for deburring of complex components such as e.g. cylinder heads or toothed wheels, and for processing construction steels and highly heat resisting materials.



In contrast to brushes with silicon carbide (SiC) filament, the red grinding brushes are interspersed with ceramic grain. This leads to maximum stock removal particularly during the processing of construction steels and highly heat resisting materials.

Recommendation for use:

- Especially suitable for use on stationary machines, machining centers and robots.



Plastic ceramic grain CO, special line SGP

Order No.	EAN 4007220	Wire dia. d ₆ [mm]	Brush dia. d ₁ [mm]	Trim width b [mm]	Trim length l ₂ [mm]	Arbor hole dia. d ₂ [mm]	Recom. speed [RPM]	Max. speed [RPM]		
NI RBU 20013/50,8 CO 120 1,10 SGP	837290	1,10	200	13	46	50,8	2.400 - 3.900	6.000	1	0,720
NI RBU 25015/50,8 CO 120 1,10 SGP	837306	1,10	250	15	63	50,8	1.400 - 2.300	3.600	1	0,920



For versatile use for deburring, cleaning and grinding.

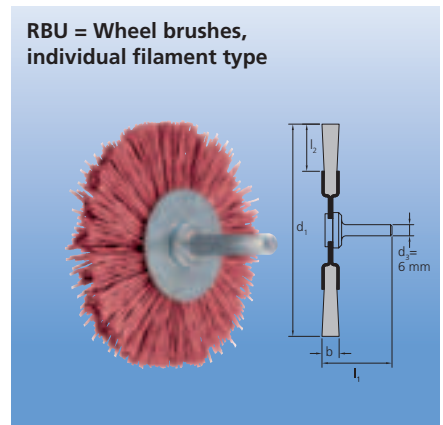
In contrast to brushes with silicon carbide (SiC) filament, the red grinding brushes are interspersed with ceramic grit. This leads to maximum stock removal particularly during the processing of construction steels and highly heat resisting materials.

Recommendation for use:

- Optimum operation with variable-speed drives. Suitable drive systems: Straight grinders, flexible shaft.



Ordering example:

EAN 4007220**899342**
RBU 5015/6 CO 120 1,10 SGP



RBU = Wheel brushes, individual filament type

Plastic ceramic grain CO, special line SGP

Order No.	EAN 4007220	Wire dia. d ₆ [mm]	Brush dia. d ₁ [mm]	Trim width b [mm]	Trim length l ₂ [mm]	Overall length l ₁ [mm]	Recom. speed [RPM]	Max. speed [RPM]		
N! RBU 5004/6 CO 120 0,55 SGP	936542	0,55	50	4	13	50	6.000 - 9.800	15.000	10	0,404
N! RBU 5015/6 CO 120 1,10 SGP	899342	1,10	50	15	13	50	6.000 - 9.800	15.000	10	0,684
N! RBU 7008/6 CO 120 0,55 SGP	936559	0,55	70	8	19	50	6.000 - 9.800	15.000	10	0,945
N! RBU 7015/6 CO 120 1,10 SGP	899359	1,10	70	15	19	50	6.000 - 9.800	15.000	10	1,205
N! RBU 8008/6 CO 120 0,55 SGP	936566	0,55	80	8	19	50	4.800 - 7.800	12.000	10	0,956
N! RBU 8015/6 CO 120 1,10 SGP	899366	1,10	80	15	19	50	4.800 - 7.800	12.000	10	1,215

Disc Brushes

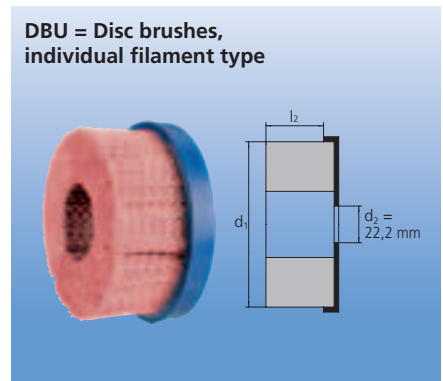


Especially suitable for deburring and surface work on stationary machines.

In contrast to brushes with silicon carbide (SiC) filament, the red grinding brushes are interspersed with ceramic grain, which leads to maximum stock removal particularly during the processing of construction steels and highly heat resisting materials.

Recommendation for use:



- Especially suitable for use on CNC machines, machining centers and robots.



DBU = Disc brushes, individual filament type

Plastic ceramic grain CO, special line SGP

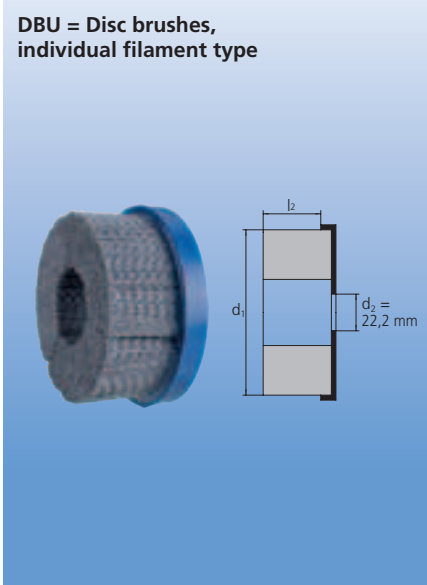
All disc brushes are supplied with attachments arbor holes dia. 6,5 mm. Pitch circle dia. 31 mm.

Order No.	EAN 4007220	Wire dia. d ₆ [mm]	Brush dia. d ₁ [mm]	Trim length l ₂ [mm]	Arbor hole dia. d ₂ [mm]	Recom. speed [RPM]	Max. speed [RPM]		
N! DBU 100/22,2 CO 120 1,10 SGP	837221	1,10	100	38	22,2	1.400 - 2.300	3.500	1	0,347
N! DBU 125/22,2 CO 120 1,10 SGP	837245	1,10	125	38	22,2	1.200 - 2.000	3.000	1	0,480
N! DBU 150/22,2 CO 120 1,10 SGP	837252	1,10	150	38	22,2	1.000 - 1.600	2.500	1	0,734

New in the PFERD Product Line 208

Disc Brushes

DBU = Disc brushes, individual filament type



Particularly suitable for deburring and surface finishing on stationary machines. Tools with M14 thread are suitable for use on variable-speed angle grinders.

Recommendation for use:

- Mainly stationary use on CNC machines, machining centers, use of robots.
- Brushes with dia. 75 mm are delivered with M14 thread and supporting ring. They are suitable for use on variable-speed angle grinders. The supporting ring reduces the unravelling of the filament and increases the brush's aggressiveness. If the filament has been worn down to the supporting ring, this is removed, freeing up the rest of the filament and allowing it to be used up completely.
- Disc brushes with round SiC filament should be used for surface finishing if possible.
- On applications which place particular demands on high brush aggressiveness, please use disc brushes with square SiC filaments (REC) if possible.
- Suitable for working aluminium.



Ordering example:

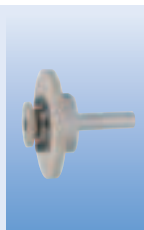
EAN 4007220**808740**
DBU 100/22,2 REC SiC 80 1,14 SG




Plastic (SiC), performance line SG

All disc brushes are supplied with attachments arbor holes dia. 6,5 mm. Pitch circle dia. 31 mm.

Order No.	EAN 4007220	Wire dia. d ₆ [mm]	Brush dia. d ₁ [mm]	Trim length l ₂ [mm]	Arbor hole/thread dia. d ₂	Recom. speed [RPM]	Max. speed [RPM]		
N! DBUR 75/M14 REC SiC 80 1,14 SG	899373	1,14	75	25	M14x2	2.400 - 3.900	6.000	1	0,226
N! DBUR 75/M14 SiC 80 1,10 SG	899380	1,10	75	25	M14x2	2.400- 3.900	6.000	1	0,226
DBU 100/22,2 REC SiC 80 1,14 SG	808740	1,14x2,3	100	38	22,2	1.400 - 2.300	3.500	1	0,376
DBU 100/22,2 SiC 80 1,10 SG	808757	1,10	100	38	22,2	1.400 - 2.300	3.500	1	0,347
DBU 100/22,2 SiC 120 1,10 SG	808764	1,10	100	38	22,2	1.400 - 2.300	3.500	1	0,347
DBU 100/22,2 SiC 320 0,55 SG	808771	0,55	100	38	22,2	1.400 - 2.300	3.500	1	0,347
DBU 125/22,2 REC SiC 80 1,14 SG	808795	1,14x2,3	125	38	22,2	1.200 - 2.000	3.000	1	0,524
DBU 125/22,2 SiC 80 1,10 SG	808788	1,10	125	38	22,2	1.200 - 2.000	3.000	1	0,480
DBU 125/22,2 SiC 120 1,10 SG	808801	1,10	125	38	22,2	1.200 - 2.000	3.000	1	0,480
DBU 125/22,2 SiC 320 0,55 SG	808818	0,55	125	38	22,2	1.200 - 2.000	3.000	1	0,480
DBU 150/22,2 REC SiC 80 1,14 SG	808825	1,14x2,3	150	38	22,2	1.000 - 1.600	2.500	1	0,798
DBU 150/22,2 SiC 80 1,10 SG	808849	1,10	150	38	22,2	1.000 - 1.600	2.500	1	0,734
DBU 150/22,2 SiC 120 1,10 SG	808856	1,10	150	38	22,2	1.000 - 1.600	2.500	1	0,734
DBU 150/22,2 SiC 320 0,55 SG	808863	0,55	150	38	22,2	1.000 - 1.600	2.500	1	0,734



BO 12/22,2 6-13 (EAN 4007220**808887**) is suitable for all disc brushes (DBU) with dia. 100 mm.



BO 12/22,2 6-16 (EAN 4007220**808894**) is suitable for all disc brushes (DBU) with dia. 125 and 150 mm.

Please refer to Tool Manual, catalogue 208, page 44 for detailed information and ordering data regarding arbors.



Are particularly suitable for working and removing soft materials (underbody coatings, anti-drumming compound). The bend in the bristles means that the bristle tip is at right angles to the surface to be worked, resulting in a rougher surface (as if sand-blasted).

Advantages:

- High cooling effect thanks to the open bristle structure.
- The open structure of the wire filament prevents the brush smearing and clogging.
- Increased service life.

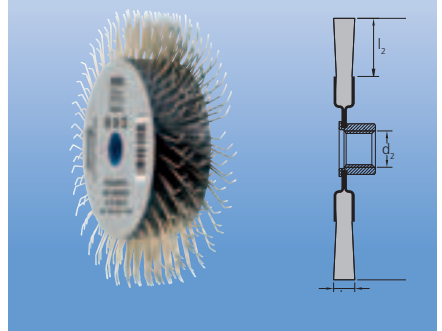
Recommendation for use:

- Suitable for use on variable-speed angle and straight grinders.



Ordering example

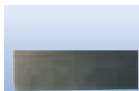
EAN 4007220**892459**
POS RBU 10020/M14 SC ST 0,60 SG

RBU = Wheel brushes for use on angle grinders, individual filament type, POLISCRATCH type



Steel wire, performance line SG

Order No.	EAN 4007220	Wire dia. d ₆ [mm]	Brush dia. d ₁ [mm]	Trim width b [mm]	Trim length l ₂ [mm]	Thread d ₂	Recom. speed [RPM]	Max. speed [RPM]		
N! POS RBU 10020/M14 SC ST 0,60 SG	892459	0,60	100	20	18	M14	1.200 - 3.500	6.000	5	0,900



The brush can be resharpened up to ten times by pressing the bristle tips for about 2-3 seconds onto a grinding stone.

During this, the bristle tips must be facing backwards in the direction of tool rotation.

The sharpening block DSB from PFERD is suitable for this purpose. For further information and order data please refer to the PFERD Tool Manual, Catalogue 206, page 53.

Arbors



The arbor BO 8/M14 can be used for mounting on straight grinders, flexible shafts or power drills.

Safety note:

Only use with wheel brushes for use on angle grinders, individual filament type, POLISCRATCH type.

**Arbor for wheel brushes
BO 8/M14**



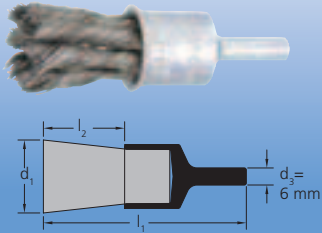
Order No.	EAN 4007220	Shank dia. [mm]	Thread		
N! BO 8/M14	900482	8	M14	1	0,050



New in the PFERD Product Line 208

Mounted Pencil Brushes, Knotted Type

PBG = Mounted pencil brushes, knotted type



Suitable for medium-light brushing and ideal for deburring, cleaning and rust removal.

The wires or filaments spread out (fill expands) as the brush rotates. Even hard-to-reach areas, e.g. inside bores and cavities, become accessible in this manner.

Packaging unit: 10 piece

Recommendation for use:

- Use adjustable RPM motors if possible for better splay control of the brush.
- Minimum recommended drive capacity 500 watts.

Ordering example:

EAN 4007220153314
PBG 1919/6 ST 0,35 SG
Please state required wire dia.



Steel wire, performance line SG

Order No.	Wire dia. d_6 [mm]			No. of knots	Brush dia. d_1 [mm]	Trim length l_2 [mm]	Overall length l_1 [mm]	Recom. speed [RPM]	Max. speed [RPM]	kg
	0,25	0,35	0,50							
EAN 4007220										
PBG 1919/6 ST ... SG	N! 936580	153314	531051	6	19	28	68	10.000 - 15.000	20.000	0,552
PBG 2323/6 ST ... SG	N! 936603	N! 936610	N! 936627	8	23	28	68	10.000 - 15.000	20.000	0,700
PBG 2525/6 ST ... SG	N! 936672	531068	531075	12	25	25	68	8.000 - 11.300	20.000	1,004

Stainless steel (INOX) wire, performance line SG

Delivery with plastic-covered brush bodies. All INOX brushes are degreased.

Order No.	Wire dia. d_6 [mm]				No. of knots	Brush dia. d_1 [mm]	Trim length l_2 [mm]	Overall length l_1 [mm]	Recom. speed [RPM]	Max. speed [RPM]	kg
	0,15	0,25	0,35	0,60							
EAN 4007220											
PBG 1919/6 INOX ... SG	598078	N! 936597	220702	531082	6	19	28	68	8.000-13.000	20.000	0,552
PBG 2323/6 INOX ... SG	N! 936634	N! 936641	N! 936658	N! 936665	8	23	28	68	8.000-13.000	20.000	0,700
PBG 2525/6 INOX ... SG	598085	N! 936689	531099	531105	12	25	25	68	6.000-9.800	20.000	1,004





Suitable for universal cleaning, rust removal, smoothing, descaling, weld dressing on cast iron, light deburring and removal of corrosion or coatings.

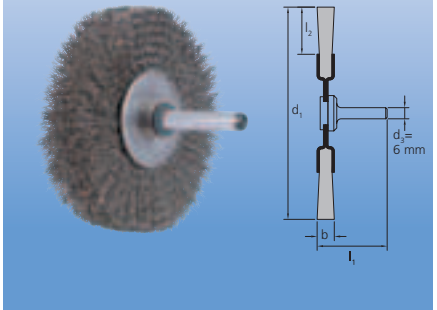
Recommendation for use:

■ Minimum recommended power 300 watts.



Ordering example:

EAN 4007220152980
RBU 2004/6 ST 0,20 SG

RBU = Mounted wheel brushes, individual filament type





Steel wire, performance line SG

Order No.	EAN 4007220	Wire dia. d ₂ [mm]	Brush dia. d ₁ [mm]	Trim width b [mm]	Trim length l ₂ [mm]	Overall length l ₁ [mm]	Recom. speed [RPM]	Max. speed [RPM]		
RBU 2004/6 ST 0,20 SG	152980	0,20	20	4	3	37	10.000 - 15.000	20.000	10	0,170
RBU 3006/6 ST 0,20 SG	153017	0,20	30	6	7	40	10.000 - 15.000	20.000	10	0,246
N! RBU 3009/6 ST 0,20 SG	899250	0,20	30	9	7	42	10.000 - 15.000	20.000	10	0,246
RBU 4009/6 ST 0,20 SG	153048	0,20	40	9	9	46	9.000 - 13.500	18.000	10	0,492
RBU 5004/6 ST 0,20 SG	806593	0,20	50	4	9	41	7.500 - 11.300	15.000	10	0,484
RBU 5015/6 ST 0,20 SG	153079	0,20	50	15	13	50	7.500 - 11.300	15.000	10	0,784
RBU 6015/6 ST 0,20 SG	658437	0,20	60	15	15	50	7.500 - 11.300	15.000	10	0,926
RBU 7004/6 ST 0,20 SG	806609	0,20	70	4	9	41	6.000 - 9.000	12.000	10	1,075
RBU 7010/6 ST 0,30 SG	658444	0,30	70	10	19	50	7.500 - 11.300	15.000	10	1,345
RBU 7015/6 ST 0,30 SG	153109	0,30	70	15	19	50	7.500 - 11.300	15.000	10	1,425
RBU 8004/6 ST 0,20 SG	806616	0,20	80	4	10	41	6.000 - 9.000	12.000	10	1,165
RBU 8015/6 ST 0,30 SG	153130	0,30	80	15	19	50	6.000 - 9.000	12.000	10	1,685
RBU 10010/6 ST 0,30 SG	658451	0,30	100	10	20	50	2.200 - 3.400	4.500	10	1,710

Stainless steel (INOX) wire, performance line SG

All stainless steel (INOX) brushes are degreased.

Order No.	EAN 4007220	Wire dia. d ₂ [mm]	Brush dia. d ₁ [mm]	Trim width b [mm]	Trim length l ₂ [mm]	Overall length l ₁ [mm]	Recom. speed [RPM]	Max. speed [RPM]		
RBU 2004/6 INOX 0,20 SG	153000	0,20	20	4	3	37	8.000 - 13.000	20.000	10	0,170
RBU 3006/6 INOX 0,20 SG	153031	0,20	30	6	7	40	8.000 - 13.000	20.000	10	0,246
N! RBU 3009/6 INOX 0,20 SG	899267	0,20	30	9	7	42	8.000 - 13.000	20.000	10	0,246
RBU 4009/6 INOX 0,20 SG	153062	0,20	40	9	9	46	7.200 - 11.700	18.000	10	0,492
RBU 5004/6 INOX 0,20 SG	806623	0,20	50	4	9	41	6.000 - 9.800	15.000	10	0,484
RBU 5015/6 INOX 0,20 SG	153093	0,20	50	15	13	50	6.000 - 9.800	15.000	10	0,784
RBU 6015/6 INOX 0,20 SG	658468	0,20	60	15	15	50	6.000 - 9.800	15.000	10	0,926
RBU 7004/6 INOX 0,20 SG	806630	0,20	70	4	9	41	4.800 - 7.800	12.000	10	1,075
RBU 7010/6 INOX 0,20 SG	597835	0,20	70	10	19	50	6.000 - 9.800	15.000	10	1,345
RBU 7015/6 INOX 0,15 SG	597842	0,15	70	15	19	50	6.000 - 9.800	15.000	10	1,425
RBU 7015/6 INOX 0,30 SG	153123	0,30	70	15	19	50	6.000 - 9.800	15.000	10	1,425
RBU 8004/6 INOX 0,20 SG	806647	0,20	80	4	10	41	4.800 - 7.800	12.000	10	1,165
RBU 8010/6 INOX 0,20 SG	578919	0,20	80	10	19	50	4.800 - 7.800	12.000	10	1,165
RBU 8015/6 INOX 0,15 SG	597859	0,15	80	15	19	50	4.800 - 7.800	12.000	10	1,685
RBU 8015/6 INOX 0,30 SG	153154	0,30	80	15	19	50	4.800 - 7.800	12.000	10	1,685
RBU 10010/6 INOX 0,30 SG	658475	0,30	100	10	20	50	1.800 - 2.900	4.500	10	1,710

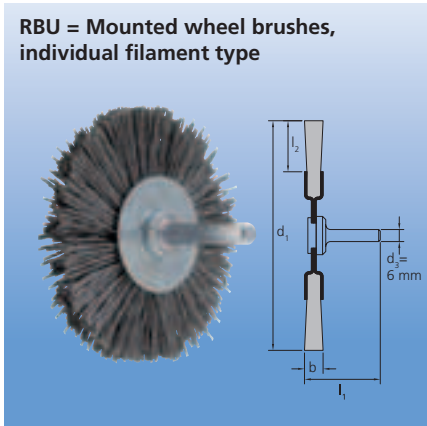
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New in the PFERD Product Line 208

Mounted Wheel Brushes, Individual Filament Type

Continued from last page.

RBU = Mounted wheel brushes, individual filament type



Suitable for universal cleaning, rust removal, smoothing, descaling, weld dressing on cast iron, light deburring and removal of corrosion or coatings.

Recommendation for use:

- Minimum recommended power 300 watts.

Ordering example:

EAN 4007220**936511**
 RBU 5004/6 SiC 120 0,55 SG



Plastic (SiC), performance line SG

Order No.	EAN 4007220	Wire dia. d ₅ [mm]	Brush dia. d ₁ [mm]	Trim width b [mm]	Trim length l ₂ [mm]	Overall length l ₁ [mm]	Recom. speed [RPM]	Max. speed [RPM]		
N! RBU 5004/6 SiC 120 0,55 SG	936511	0,55	50	4	13	50	6.000 - 9.800	15.000	10	0,404
RBU 5010/6 SiC 180 0,90 SG	220610	0,90	50	15	13	50	6.000 - 9.800	15.000	10	0,684
N! RBU 7008/6 SiC 120 0,55 SG	936528	0,55	70	10	19	50	6.000 - 9.800	15.000	10	0,945
RBU 7015/6 SiC 180 0,90 SG	220627	0,90	70	15	19	50	6.000 - 9.800	15.000	10	1,205
N! RBU 8008/6 SiC 120 0,55 SG	936535	0,55	80	10	19	50	4.800 - 7.800	12.000	10	0,965
RBU 8015/6 SiC 180 0,90 SG	220634	0,90	80	15	19	50	4.800 - 7.800	12.000	10	1,215



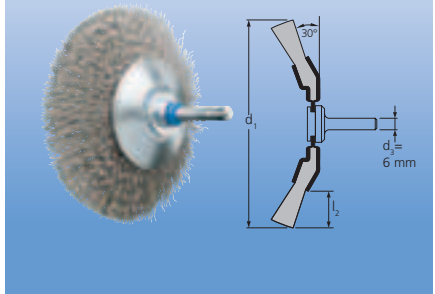
Excellent for medium-heavy brushing work such as deburring, cleaning and rust removal. The flared shape of the brush body makes it easier to work in hard-to-reach places such as inner edges, channels and grooves.

Recommendation for use:



- Optimum operation with variable-speed drives. Suitable drive systems: Straight grinders, flexible shaft.

Ordering example:
EAN 4007220899397
KBU 9510/6 ST 0,30 SG

KBU = Flaring pencil brushes, individual filament type





Steel wire, performance line SG

Order No.	EAN 4007220	Wire dia. d_6 [mm]	Brush dia. d_1 [mm]	Trim width b [mm]	Trim length l_2 [mm]	Recom. speed [RPM]	Max. speed [RPM]		
N! KBU 5010/6 ST 0,20 SG	936351	0,20	50	10	10	7.500 - 11.300	15.000	10	0,066
N! KBU 7010/6 ST 0,30 SG	936368	0,30	70	10	15	7.500 - 11.300	15.000	10	0,102
N! KBU 8010/6 ST 0,30 SG	936375	0,30	80	10	20	6.000 - 9.000	15.000	10	0,097
N! KBU 9510/6 ST 0,30 SG	899397	0,30	95	10	25	6.000 - 9.000	12.000	10	0,153

Stainless steel (INOX) wire, performance line SG

All stainless steel (INOX) brushes are degreased.

Order No.	EAN 4007220	Wire dia. d_6 [mm]	Brush dia. d_1 [mm]	Trim width b [mm]	Trim length l_2 [mm]	Recom. speed [RPM]	Max. speed [RPM]		
N! KBU 5010/6 INOX 0,20 SG	936382	0,20	50	10	10	6.000 - 9.800	15.000	10	0,066
N! KBU 7010/6 INOX 0,15 SG	936399	0,15	70	10	15	6.000 - 9.800	15.000	10	0,102
N! KBU 7010/6 INOX 0,20 SG	936405	0,20	70	10	15	6.000 - 9.800	15.000	10	0,102
N! KBU 8010/6 INOX 0,30 SG	936412	0,30	80	10	20	4.800 - 7.800	15.000	10	0,097
N! KBU 9510/6 INOX 0,30 SG	899403	0,30	95	10	25	4.800 - 7.800	12.000	10	0,153



New in the PFERD Product Line 208

Brushes INOX-TOTAL

Due to its particularly good forming and welding qualities, its resistance against corrosion and its attractive appearance, stainless steel (INOX) is becoming increasingly popular for various products. These properties also place special requirements and demands on the tools used to machine it.

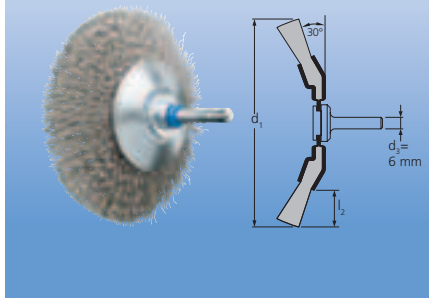
PFERD also offers brushes "INOX-TOTAL" as well as brushes with INOX fillings for machining stainless steel. This design is characterised by the fact that not only the trim material, but rather all parts of the brush are made from stainless steel in quality 1.4310 (V2A).

These brushes are perfectly suited for applications in extremely critical surroundings and for difficult conditions in the chemical and

construction industries, or in the foodstuffs or nuclear industries.

Please refer to tool manual 21, page 8 for further information on machining stainless steel (INOX) and PFERD brushes in the INOX-TOTAL type.

KBUIT = Flaring cup brushes, individual filament type



Excellent for medium-heavy brushing work such as deburring, cleaning and rust removal. The flared shape of the brush body makes it easier to work in hard-to-reach places such as inner edges, channels and grooves.

Recommendation for use:

- Optimum operation with variable-speed drives. Suitable drive systems: Straight grinders, flexible shaft.



Ordering example:

EAN 4007220936474

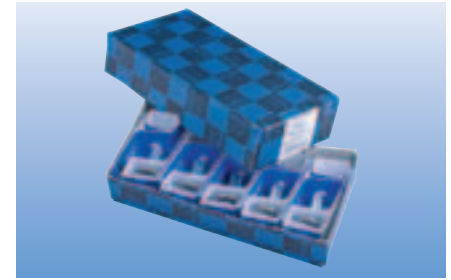
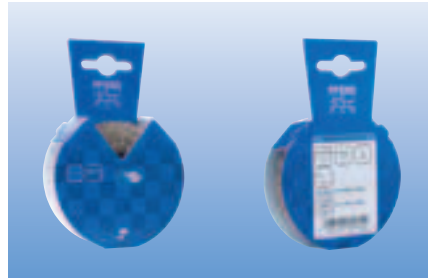
KBUIT 5010/6 INOX 0,20 SGP

Stainless steel (INOX) wire, special line SGP

All stainless steel (INOX) brushes are degreased.

Order No.	EAN 4007220	Wire dia. d ₆ [mm]	Brush dia. d ₁ [mm]	Trim width b [mm]	Trim length l ₂ [mm]	Recom. speed [RPM]	Max. speed [RPM]		
N! KBUIT 5010/6 INOX 0,20 SGP	936474	0,20	50	10	10	6.000 - 9.800	15.000	10	0,066
N! KBUIT 7010/6 INOX 0,15 SGP	936481	0,15	70	10	15	6.000 - 9.800	15.000	10	0,102
N! KBUIT 7010/6 INOX 0,20 SGP	936498	0,20	70	10	15	6.000 - 9.800	15.000	10	0,102
N! KBUIT 8010/6 INOX 0,30 SGP	936504	0,30	80	10	20	4.800 - 7.800	15.000	10	0,097





POS Packed Brushes





Alongside wheel brushes, cup brushes and flared brushes, PFERD is now offering shank brushes in sales-promotional individual packaging.

All the shank brushes with POS added to the order no. can be presented highly effectively using the PFERD TOOL CENTER.

Advantages:

- Functional Euro hole for optimum product presentation on your sales wall.
- The packaging labels show the order description and EAN-code.
- Products can be recognized easily through the transparent window.

Product labels

	Brush dia. d_1 [mm]
	Trim width b [mm]
	Wire dia. d_6 [mm]
	Shank dia. d_3 [mm]

Advantages:

- Pictograms on the label explain the most important product features.
- The labels contain information about the safe and optimum use of the brush.

Outside packaging

Individually-packaged brushes are delivered in a practical outer box.



Advantages:

- Good stackability.
- Order no. and EAN-code on the label of the outer box make inventory management easier.

Select trim material

The trim materials are colour-coded for easier recognition:

Steel wire	–	grey
INOX wire	–	blue
Plastic (SiC)	–	red

Order No.	EAN 4007220	Wire dia. d_6 [mm]	No. of knots	Brush dia. d_1 [mm]	Trim width b [mm]	Trim length l_2 [mm]	Overall length l_1 [mm]	Recom. speed [RPM]	Max. speed [RPM]		
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PBG = Mounted pencil brushes, knotted type Steel wire, performance line SG



N!	POS PBG 1919/6 ST 0,35 SG	532416	0,35	6	19	19	28	68	10.000 - 15.000	20.000	10	0,751
N!	POS PBG 1919/6 ST 0,50 SG	894361	0,50	6	19	19	28	68	10.000 - 15.000	20.000	10	0,751
N!	POS PBG 2525/6 ST 0,35 SG	532423	0,35	12	25	25	25	68	8.000 - 11.300	20.000	10	1,171
N!	POS PBG 2525/6 ST 0,50 SG	894422	0,50	12	25	25	25	68	8.000 - 11.300	20.000	10	1,171

Stainless steel (INOX), performance line SG

N!	POS PBG 1919/6 INOX 0,35 SG	532430	0,35	6	19	19	28	68	8.000 - 13.000	20.000	10	0,751
N!	POS PBG 1919/6 INOX 0,60 SG	894460	0,60	6	19	19	28	68	8.000 - 13.000	20.000	10	0,751
N!	POS PBG 2525/6 INOX 0,35 SG	532447	0,35	12	25	25	25	68	6.000 - 9.800	20.000	10	1,171
N!	POS PBG 2525/6 INOX 0,60 SG	894484	0,60	12	25	25	25	68	6.000 - 9.800	20.000	10	1,171

PBU = Mounted pencil brushes, individual filament type Steel wire, performance line SG



N!	POS PBU 1516/6 ST 0,20 SG	894491	0,20	-	15	16	22	65	9.000 - 13.500	18.000	10	0,551
N!	POS PBU 1516/6 ST 0,35 SG	532256	0,35	-	15	16	22	65	9.000 - 13.500	18.000	10	0,551
N!	POS PBU 2020/6 ST 0,20 SG	894514	0,20	-	20	20	25	70	9.000 - 13.500	18.000	10	0,791
N!	POS PBU 2020/6 ST 0,50 SG	532263	0,50	-	20	20	25	70	9.000 - 13.500	18.000	10	0,791

Stainless steel (INOX), performance line SG

N!	POS PBU 1516/6 INOX 0,20 SG	894545	0,20	-	15	16	22	65	7.200 - 11.700	18.000	10	0,551
N!	POS PBU 1516/6 INOX 0,35 SG	532287	0,35	-	15	16	22	65	7.200 - 11.700	18.000	10	0,551
N!	POS PBU 2020/6 INOX 0,20 SG	894552	0,20	-	20	20	25	70	7.200 - 11.700	18.000	10	0,791
N!	POS PBU 2020/6 INOX 0,50 SG	532294	0,50	-	20	20	25	70	7.200 - 11.700	18.000	10	0,791

Plastic (SiC), performance line SG

N!	POS PBU 1516/6 SiC 180 0,90 SG	532348	0,90	-	15	16	22	65	7.200 - 11.700	18.000	10	0,481
N!	POS PBU 2020/6 SiC 180 0,90 SG	532355	0,90	-	20	16	25	70	7.200 - 11.700	18.000	10	0,651

New in the PFERD Product Line 208

POS Packed Brushes



Order No.	EAN 4007220	Wire dia. d ₆ [mm]	No. of knots	Brush dia. d ₁ [mm]	Trim width b [mm]	Trim length l ₂ [mm]	Overall length l ₁ [mm]	Recom. speed [RPM]	Max. speed [RPM]			
RBG = Wheel brushes, knotted type												
Steel wire, performance line SG												
N!	POS RBG 7006/6 ST 0,35 SG	531969	0,35	18	76	6	16	42	12.500 - 18.800	25.000	10	1,376
N!	POS RBG 7006/6 ST 0,50 SG	894569	0,50	18	76	6	16	42	12.500 - 18.800	25.000	10	1,376
Stainless steel (INOX), performance line SG												
N!	POS RBG 7006/6 INOX 0,35 SG	531976	0,35	18	76	6	16	42	10.000 - 16.300	25.000	10	1,376
N!	POS RBG 7006/6 INOX 0,50 SG	894576	0,50	18	76	6	16	42	10.000 - 16.300	25.000	10	1,376
RBU = Wheel brushes, individual filament type												
Steel wire, performance line SG												
N!	POS RBU 3006/6 ST 0,20 SG	531808	0,20	-	30	6	7	40	10.000 - 15.000	20.000	10	0,353
N!	POS RBU 5015/6 ST 0,20 SG	531822	0,20	-	50	15	13	50	7.500 - 11.300	15.000	10	0,946
N!	POS RBU 7015/6 ST 0,30 SG	894606	0,30	-	70	15	19	50	7.500 - 11.300	15.000	10	1,538
N!	POS RBU 10010/6 ST 0,30 SG	894613	0,30	-	100	10	20	50	2.200 - 3.400	4.500	10	1,828
Stainless steel (INOX), performance line SG												
N!	POS RBU 3006/6 INOX 0,20 SG	531884	0,20	-	30	6	7	40	8.000 - 13.000	20.000	10	0,353
N!	POS RBU 5015/6 INOX 0,20 SG	531891	0,20	-	50	15	13	50	6.000 - 9.800	15.000	10	0,946
N!	POS RBU 7015/6 INOX 0,30 SG	894620	0,30	-	70	15	19	50	6.000 - 9.800	15.000	10	1,538
N!	POS RBU 10010/6 INOX 0,30 SG	894637	0,30	-	100	10	20	50	1.800 - 2.900	4.500	10	1,828
Plastic (SiC), performance line SG												
N!	POS RBU 5015/6 SiC 180 0,90 SG	531945	0,90	-	50	15	13	50	6.000 - 9.800	15.000	10	0,798
N!	POS RBU 7015/6 SiC 180 0,90 SG	894644	0,90	-	70	15	19	50	6.000 - 9.800	15.000	10	1,318
TBU = Mounted cup brushes, individual filament type												
Steel wire, performance line SG												
N!	POS TBU 5010/6 ST 0,30 SG	532171	0,30	-	50	10	20	75	5.300 - 7.900	10.500	5	0,797
Stainless steel (INOX), performance line SG												
N!	POS TBU 5010/6 INOX 0,30 SG	894651	0,30	-	50	10	20	75	4.200 - 6.800	10.500	5	0,797
Plastic (SiC), performance line SG												
N!	POS TBU 5010/6 SiC 180 0,90 SG	894668	0,90	-	50	10	20	75	4.200 - 6.800	10.500	5	0,737

Accessories

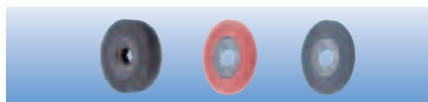
Adapter pairs APM 50,8



The adapters change the arbor holes to the required dimensions.

APM 50,8

The adapter set APM allows wheel brushes (deburbing brush type) to be used on all standard drive systems.



Each adapter set contains three pairs of adapters.

Ordering example:
EAN 4007220900376
APM 50,8/16-20

Order No.	EAN 4007220	Centre holes included in the set [mm]			
N!	APM 50,8/16-20	900376	16, 18, 20	1	0,257
N!	APM 50,8/22,2-30	900390	22,2, 25,4, 30	1	0,257
N!	APM 50,8/32-40	900406	32,35, 40	1	0,257



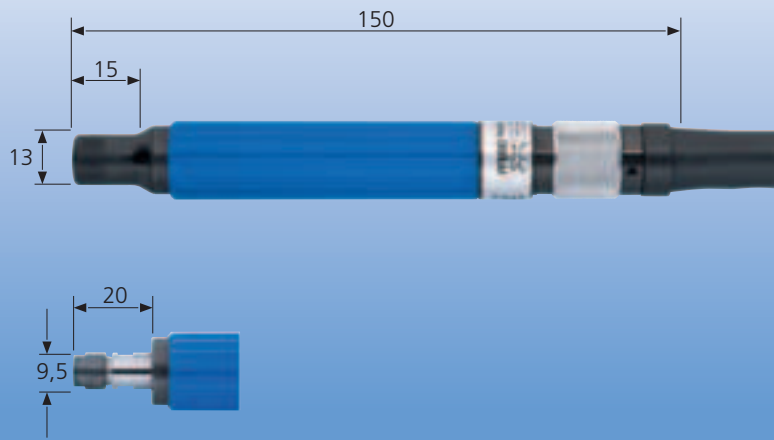
Use only with oil.
1-1,5 drops per minute

- Rubber bearings for reduced vibration applications.
- TC burrs in particular can now be applied at a max. angle of contact of 180° without recoiling.
- Protective spindle cap can be removed for work in narrow geometries.
- For fine milling, grinding and engraving work.
- Holds like a pen.
- Rear exhaust.
- Comes with air supply and exhaust hose.

If required, please order separately:

- Complete connecting set no. 1
- In-line fine filter SFI 1/4-5
 EAN 4007220809013.

PGAS 2/800 E



Order No.	EAN 4007220	Exhaust direction	Throttle type	Air consumption [m³/min]	Incl. collet dia. [mm]	Connect. set EAN 4007220	Air supply hose inner dia. [mm]	
N! PGAS 2/800 E	832479	rear	ring	0,29 - 0,31	3	351109	5	0,208

Collets

	Group 1	for shank dia.		
	EAN 4007220	2,34 mm	3 mm	1/8 inch
	196342	196359	196366	

Keys

	Width across flats	Quantity	EAN 4007220
	8 mm	2	206867

Suitable PFERD tools

Catalogue 202	Catalogue 203*	Catalogue 204*	Catalogue 205
 TC burrs cut 3, 3 PLUS, 4, 5, ALU PLUS head dia. up to 3 mm shank dia. 3 mm cut 1, ALU, FVK head dia. 3 mm shank dia. 3 mm Please observe the recommendations on different cutting speeds in catalogue 202.	 Mounted points head dia. up to 6 mm width up to 13 mm shank dia. 3 mm	 Poliflex® fine grinding points shank dia. 3 mm bond: GHR head dia. up to 4 mm LR and TX head dia. up to 6 mm	 Diamond grinding points head dia. up to 4,5 mm shank dia. 3 mm CBN grinding points head dia. up to 5,5 mm shank dia. 3 mm

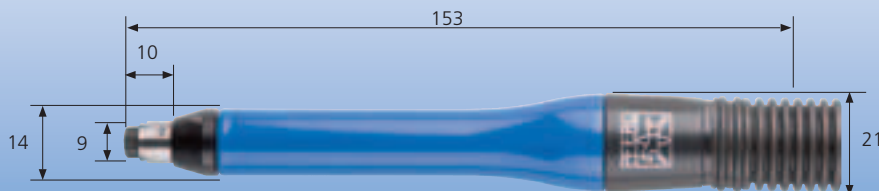
*Catalogues 203/204: The information given here refers to an open shank length of 10 mm and the max. specified mounted point dimensions.

New in the PFERD Product Line 209

Straight Grinder, Speed: 55.000 RPM / Output: 100 Watts



PGAS 1/550



**Use only with oil.
1 drops per minute.**

- Ideal for fine milling, grinding and engraving work.
- The very slim machine housing allows it to be guided like a pen.
- Rear exhaust.
- Comes with air supply and exhaust hose.

If required, please order separately:

- Complete connecting set no. 1
- In-line fine filter SFI 1/4-5
EAN 4007220809013.



Order No.	EAN 4007220	Exhaust direction	Throttle type	Air consumption [m³/min]	Incl. collet dia. [mm]	Connect. set EAN 4007220	Air supply hose inner dia. [mm]	
N! PGAS 1/550	896600	rear	ring	0,12	3	351109	5	0,101




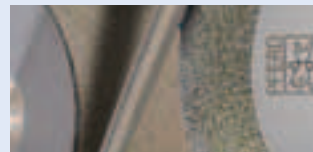
Collets

N!	EAN 4007220	Group 15 for shank dia.		
		3 mm	3/32 Inch	1/8 Inch
		851814	851838	851821

Keys

N!	Width across flats	Quantity	EAN 4007220

Suitable PFERD tools

Catalogue 202	Catalogue 203*	Catalogue 204*	Catalogue 205
 <p>TC burrs Cut 3, 3 PLUS, 4, 5, ALU PLUS head dia. up to 3 mm shank dia. 3 mm</p> <p>Cut 1, ALU, FVK head dia. 3 mm shank dia. 3 mm</p> <p>HSS rotary cutters Cut ALU, 1, 2, 3, 5 head dia. up to 1,6 mm shank dia. 3 mm</p> <p>Please observe the recommenda- tions on different cutting speeds in catalogue 202.</p>	 <p>Mounted points head dia. up to 6 mm width up 13 mm shank dia. 3 mm</p>	 <p>Poliflex® fine grinding points shank dia. 3 mm Bond: GR head dia. up to 4 mm GHR, LR und TX head dia. up to 6 mm LHR head dia. up to 8 mm</p>	 <p>Diamond grinding points head dia. up to 5,5 mm shank dia. 3 mm</p> <p>CBN grinding points head dia. up to 5,5 mm shank dia. 3 mm</p>

*Catalogues 203/204: The information given here refers to an open shank length of 10 mm and the max. specified mounted point dimensions.



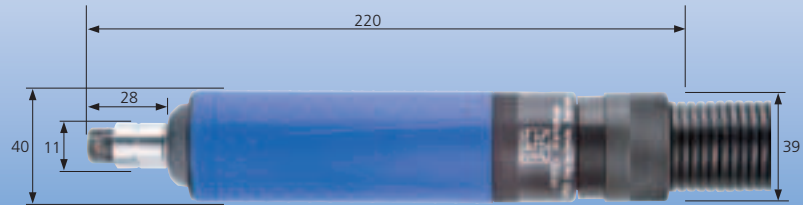
**Use only with oil.
2 drops per minute.**


- Powerful and handy shape
- Flexible spindle bearing. This guarantees longer tool life, particularly when TC burrs are used.
- Low vibration load for the protection of people, tools and machines.
- Rear exhaust with silencer
- Comes with air supply and exhaust hose.

If required, please order separately:


- Complete connecting set no. 2
- In-line fine filter SFI 3/8-8
EAN 4007220809020.

PGAS 4/350 E




Order No.	EAN 4007220	Exhaust direction	Throttle type	Air consumption [m³/min]	Incl. collet dia. [mm]	Connect. set EAN 4007220	Air supply hose inner dia. [mm]	
N! PGAS 4/350 E	896693	rear	ring	0,45	6	351116	8	0,500





Collets

	Group 6 for shank dia.						
	3 mm	6 mm	8 mm	3/32 Inch	1/8 Inch	1/4 Inch	
EAN 4007220	212875	212851	212936	234969	212882	212868	

Keys

	Width across flats	Quantity	EAN 4007220
	14 mm	1	206836
	11 mm	1	206812

Suitable PFERD tools

Catalogue 202	Catalogue 203*	Catalogue 204*	Catalogue 205	Catalogue 206
				
TC burrs Cut 3, 3 PLUS, 4, 5, ALU PLUS head dia. 4 to 6 mm HSS rotary cutters Cut ALU, 1, 2, 3, 5 head dia. up to 2,3 mm Please observe the recommendations on different cutting speeds in catalogue 202.	Mounted points head dia. up to 13 mm width up to 13 mm head dia. up to 3 mm Mounted points head dia. up to 20 mm width up to 32 mm	Poliflex® fine grinding points shank dia. 3 + 6 mm bond: GR head dia. up to 6 mm GHR und TX head dia. up to 12 mm LHR head dia. up to 20 mm Abrasive spiral bands head dia. up to 15 mm	Diamond grinding points head dia. up to 9 mm shank dia. 3 + 6 mm CBN-grinding points head dia. up to 13 mm shank dia. 3 + 6 mm	Cut-off wheels EHT dia. 40 mm matching arbor BO 6/6 0-4

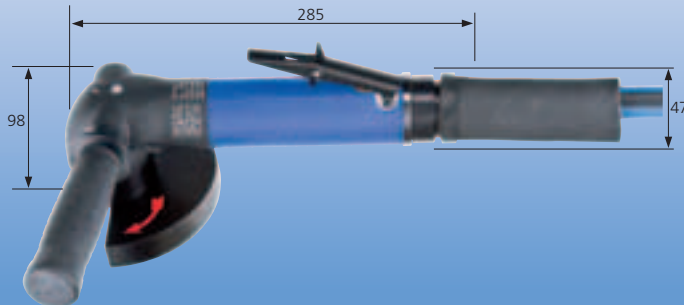
Note: Where no shank diameter is indicated, the shank diameter specification is 6 mm. ***Catalogues 203/204:** The information given here refers to an open shank length of 10 mm and the max. specified mounted point dimensions.

New in the PFERD Product Line 209

Angle Grinder, Speed: 12.000 RPM / Output: 1.100 Watt



PWAS 13/120 AVH



Use only with oil.
6-8 drops per minute.

- Max. tool dia. up to 125 mm.
- Powerful, comfortable to hold thanks to angled anti-vibration handle.
- Autobalancer on the work spindle.
- Low vibration load for the protection of people, tools and machines.
- Spindle locking feature for easy tool change with 1 spanner.
- Safety lever throttle protects against inadvertent start-up.
- Rear exhaust with silencer
- Comes with air supply and exhaust hose.

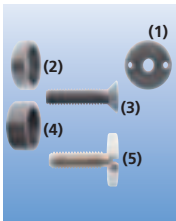
If required, please order separately:

- Complete connecting set no. 4
- In-line fine filter SFI 1/2-12
EAN 4007220809051.



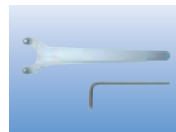
Order No.	EAN 4007220	Exhaust direction	Throttle type	Air consumption [m ³ /min]	Connect. set EAN 4007220	Air supply hose inner dia. [mm]	Drive spindle thread	Tool mounting [mm]	kg
N! PWAS 13/120 AVH	896709	rear	lever	0,9	351130	12	M14	22,23	2,100

Collets



Order No.	EAN 4007220
N! SPM 14 98980036 (1)	902189
N! FLS 98980037 (3)	902202
N! DHFL 98980039 (2)	902226
N! DHTR 98980040 (4)	902233
N! FLS-CC 98980038 (5)	902219

Keys




Width across flats	Quantity	EAN 4007220
35 mm	1	193853
4 mm (Inbus)	1	204450

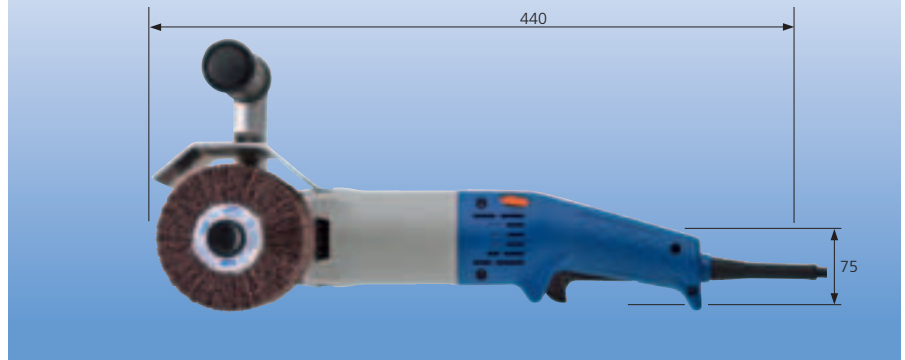
Suitable PFERD tools


Catalogue 204	Catalogue 205	Catalogue 206	Catalogue 208
<p>COMBICLICK® fibre discs and fibre discs dia. up to 125 mm</p> <p>Backing pad for COMBICLICK® fibre discs and fibre discs dia. up to 125 mm CC-GT 115/125 GT 125</p>	<p>Electroplated bond diamond cut-off wheels dia. up to 125 mm</p>	<p>Cut-off and grinding wheels POLIFAN® flap discs CC-GRIND® grinding discs CC-GRIND®-SOLID grinding discs Diamond cut-off wheels dia. up to 125 mm</p>	<p>Wheel brushes knotted type RBG dia. 115 mm bore types dia. 22,2 mm and M14 individual filament type RBU dia. 115 mm M14 Cup brushes individual filament type TBU dia. 60 up to 75 mm M14 knotted type TBG dia. 65 mm M14 Flaring cup brushes individual filament type KBU dia. 100 up to 115 mm M14 knotted type KBG dia. 115 mm M14</p>

Special features:


- Totally insulated. 
- Low speed angle grinder/burnisher with stepless RPM adjustment.
- Digital electronic for constant RPM even under load.
- Electronic switch-off on overload, restart protection on power failure.
- Smooth start up for the protection of people, tools and machine.
- Spindle lock for easy tool change.
- Drive spindle with two keyways for increased force transmission.

UWER 15/40 A SI D19



Order No.	EAN 4007220	RPM	Voltage 50-60 Hz	Power input [watts]	Power output [watts]	Max. tool dia. [mm]	Drive Spindle	
N! UWER 15/40 A SI D19	896792	900 - 3.500	230	1.530	1.050	125	19 x 100	3,000

Keys

	Width across flats	Quantity	EAN 4007220
	13 mm	1	206829

Suitable PFERD tools

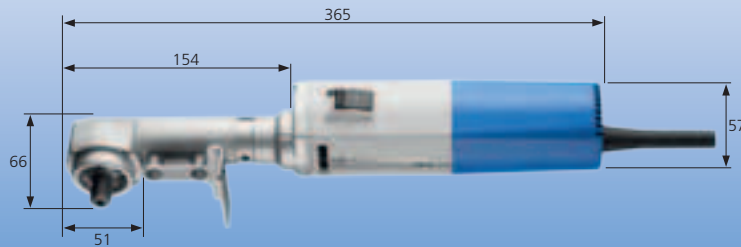
Catalogue 204	Catalogue 208
	
Flap drums Texturing rollers POLINOX® grinding drums dia. 100 x 100 mm	Roller brushes individual filament type WBU dia. 100 mm BO 19,1

New in the PFERD Product Line 209

Electric Fillet Weld Grinder, Speed: 3.400 RPM / Output: 500 Watt



KNER 5/34 V-SI 230 V



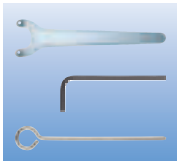
Special features:

- Light, easy to handle, high power output.
- Max. tool dia. 150 mm.
- Tool mount 25,4 mm (1") or 22,23 mm.
- Stepless RPM adjustment.
- Digital electronic for constant RPM.
- Electronic switch-off on overload, restart protection on power failure.
- Totally insulated.



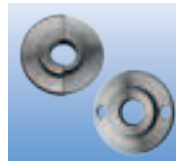
Order No.	EAN 4007220	RPM	Voltage 50-60 Hz	Power input [watts]	Power output [watts]	Drive spindle thread	Tool mounting dia. [mm]	
N! KNER 5/34 V-SI 230 V	935217	1.500 - 3.400	230	500	300	M14	25,4 / 22,23	1,600

Keys



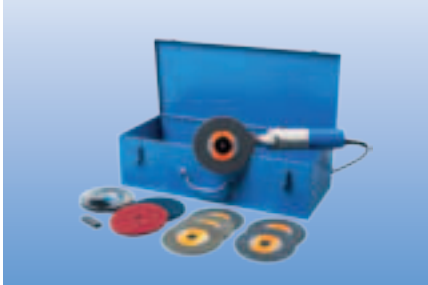
Width across flats	Quantity	EAN 4007220
35 mm	1	193853
5 mm (Inbus)	1	204467
dia. 4 mm	1	205020

Wheel flange



Order No.	Description	EAN 4007220
N! WSPF 96473301	Reversible clamping flange	937839
N! SPM14 96473201	Clamping nut	937822

POLINOX® set PNER



POLINOX® set PNER 15003/06 KNER 5/34 230 V

Contents:

- 1 piece each:
- Electric fillet weld grinder KNER 5/34 V-SI 230V
 - POLINOX® unitized wheels
 - PNER-MW 15003-25,4 C fine
 - PNER-MH 15003-25,4 C fine
 - PNER-H 15003-25,4 A fine
 - PNER-W 15006-25,4 C fine
 - PNER-MW 15006-25,4 C fine
 - PNER-H 15006-25,4 A fine

- Dressing stone SE 702212 CU 46 M5V
- POLIVLIES® discs
 - PVR 15008-13 A medium
 - PVR 15008-13 A very fine
- Wheel Brush RBU 15016/12,0 SiC 80 1,00 SG incl. arbor hole adapter 22,2 mm

Please refer to page 41 for detailed information and ordering data regarding the POLINOX® set PNER.

Suitable PFERD tools

Catalogue 204	Catalogue 208
<p>POLINOX® unitized wheels PNER dia. up to 150 mm</p> <p>POLINOX® unitized discs PNER dia. up to 125 mm</p> <p>POLIVLIES® discs dia. up to 150 mm</p> <p>POLIVLIES® flap discs dia. up to 125 mm</p>	<p>Wheel brushes individual filament type RBU 15016/12,0 CO 120 1,10 SGP RBU 15016/12,0 SiC 80 1,00 SG and matching arbor hole adapter 22,2 mm of adapter set AK 32</p>

The Maxi Mammoth Electronic is the most powerful drive machine in the PFERD programm. Combined with flexible shafts it is suitable for heavy-duty grinding and polishing work.

Special features:

- Stepless speed adjustment 0-15.000 RPM.
- Removable operating console with possibility for extension, e.g. hanging design, work in boilers.
- Smooth start up.
- Quick and easy RPM adjustment possible with motor running.
- High torque over the entire speed range.


- Extremely low noise development due to vibration damper.
- Automatic motor stop on overload.
- Restart protection on power failure.
- Easy to service, housing with four easy to remove modules.
- Base with pivoting joint for easy guidance of flexible shafts and adherence to the max. permissible min. bending radius.
- Suitable for tools up to dia. 300 mm.

Ordering note:

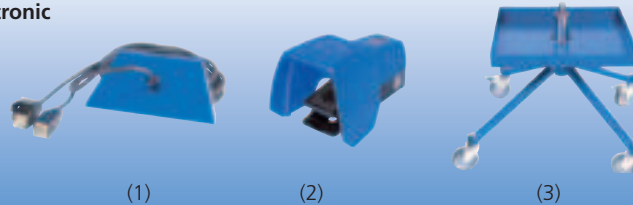
MME 40/150 = 3-phase AC current
The drive motors are supplied without plugs and flexible shafts.

MME 40/150



Order No.	EAN 4007220	RPM	Voltage 50-60 Hz	Power input [watts]	Power output [watts]	Motor connection [DIN]	Dimensions L x W x H [mm]	
N! MME 40/150 400 V	832486	0 - 15.000	380 - 480	6.100	4.000	15	550 x 220 x 500	36,160

Accessories for Maxi Mammoth Electronic



(1) Remote control cable FSTK 40


For extension of the removable operating console with cover plate for protection of the motor (cable length 4 m).

(2) Foot switch FSE 22

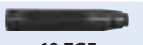
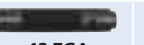
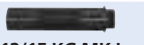
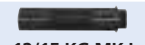













For easy machine switch-on/switch-off (cable length 4 m) with protective cover.

(3) Base trolley D ME

Mobile trolley with tool tray and two lockable wheels.

Order No.	Description	EAN 4007220	
FSTK 40	(1) Remote control cable	on request	
FSE 22	(2) Foot switch	772799	1,000
D ME	(3) Mobile trolley	618028	14,200

Suitable flexible shafts:

Flexible shaft	10 ZG	12 ZGA	12 KG	15 KG	
Catalogue page	87	89	91	91	
RPM output [watts]	750-18.000 140-2.450	850-12.000 525-6.280	850-10.000 525-6.280	1.000-7.300 735-8.560	
Connection on - motor side - handpiece side	DIN 15 G 28	DIN 15 G 28	DIN 15 G 35	DIN 15 G 35	
possible handpieces and attachments	 10 ZGE max. 18.000 RPM	 12 ZGA max. 18.000 RPM	 12/15 KG MK I max. 10.000 RPM	 12 ZG max. 10.000 RPM	
	 WZ 10 45° max. 17.100 RPM	 WZ 10 B max. 17.100 RPM	 WZ 10 45° max. 17.100 RPM	 WZ 10 B max. 17.100 RPM	
	 BSG 3/10/40 max. 5.000 RPM	 BSG 10/35 max. 7.000 RPM  BSG 10/50 max. 7.000 RPM	 BSG 3/10/40 max. 5.000 RPM  WT 10 H max. 8.500 RPM  WRS 12 ZGA max. 18.000 RPM	 BSG 10/35 max. 7.000 RPM  BSG 10/50 max. 7.000 RPM  WRS WT 10 H max. 8.500 RPM	

For detailed information and ordering data on flexible shafts and handpieces please refer to the stated catalogue pages.



Flexible shaft PST-T for inner grinding of pipes

These special flexible shafts do not have a handpiece for tool attachment and are particularly flexible at the front.

The grinding tools POLISTAR TUBE are screwed directly onto the core of the flexible shaft (INOX version).

This combination is excellent for step-by-step finish grinding and cleaning of the insides of pipes and pipe bends. Both ends of the pipe can be deburred from the same side.

Flexible shaft motors with stepless speed regulation are recommended as drives.

Recommendation for use:

- Before POLISTAR-TUBE is inserted into the pipe with the shaft, the tool should be pre-formed and adapted to the pipe diameter.
- We recommend reducing the speed of the POLISTAR-TUBE during insertion.
- Pipes with more than three pipe bends should be ground from both ends of the pipe if possible.
- When the tool flaps emerge from the pipe end, they can be pulled back whilst still in rotation. The rear of the POLISTAR-TUBE deburrs the pipe end and also grinds the inside of the pipe during the backward movement.

- All flexible shaft drives with a speed range of 1.500-7.650 RPM and flexible shaft connection DIN 10 can be used.

Flexible shaft 4 PST-T DIN10/M4 (1,5 m)

- The flexible shaft is only to be used in connection with POLISTAR-TUBE PST dia. 50, 60, 70 and 80 mm tools.
- Please observe the recommended and max. permissible tool speeds when setting the motor speed.
- Maintenance set 4 ZG for flexible shaft maintenance, EAN 4007220182970.

Flexible shaft 7 PST-T DIN10/M5 (2,0 m)

- The flexible shaft is only to be used in connection with POLISTAR-TUBE PST dia. 90 and 100 mm tools.
- Please observe the recommended and max. permissible tool speeds when setting the motor speed.
- Maintenance set 7 ZG for flexible shaft maintenance, EAN 4007220182994.

Order No. EAN 4007220

DIN 10

Flexible shaft

N!	BW 4 PST-T DIN10/M4	810804
N!	BW 7 PST-T DIN10/M5	811191


Core

N!	SE 4 PST-T DIN10/M4	835685
N!	SE 7 PST-T DIN10/M5	835692

Hose

N!	SCH 4 PST-T DIN10/M4	835715
N!	SCH 7 PST-T DIN10/M5	835722

Technical data

Dimen- sions dia. x length [mm]	Motor coupling dia. [mm]	Tool coupling dia. [mm]	
13 x 1.550	30	M4	0,480
18 x 2.052	30	M5	1,320
4 x 1.540	M10	M4	0,124
7 x 2.042	M10	M5	0,447
13 x 1.537	30	8	0,353
18 x 2.032	30	13,5	0,871

Special features

- Special lengths available on request.
- RPM range: n = 1.500-7.650 RPM.
- RPM range: n = 1.500-4.250 RPM.
- Replacement core, ready for installation.
- Replacement core, ready for installation.
- Replacement casing, ready for installation.
- Replacement casing, ready for installation.

PFERD supplies the vibration-damping SENSOHANDLE for use on all standard angle grinders (female thread M8, M10, M14).



Supplied content:

- 1 handle
- 3 Adapter (M8, M10 und M14)

Advantages:

- Significant reduction of the vibration load because the source of vibration and handle surface are separated.
- The vibration energy is absorbed or reduced even further by the special rubber compound.
- Safe and comfortable work, since shape and dimensions of the handle have been optimized strictly in line with ergonomic aspects.
- Safe hold thanks to the structured surface of the handle.



Order No.	EAN 4007220	Thread Adapter	Suitable for		
N! SENSOHANDLE	901649	M8	PFERD-tool drives PW 9/120 HV, PW 12/120 HV, PWAS 13/120 AVH, UWER 15/100 SI, WT 7 E M14 G22, WT 10 H/G28 All standard angle grinders with M8 female thread	1	0,500
		M10	PFERD-tool drives PW 11/120 AVH und PW 11/120 HV All standard angle grinders with M10 female thread		
		M14	All standard angle grinders with M14 female thread		



