

SUPPORT



TRUST BLUE

- Optimum work results
- Maximum efficiency and safety
- Highly durable even under extreme weather and working conditions

PFERD products for pipeline construction

Introduction



August Rüggeberg GmbH & Co. KG, Marienheide/Germany, develops, produces and markets products for surface finishing and cutting materials under the brand name PFERD. For more than 200 years the PFERD brand has been synonymous with excellent quality, top performance and efficiency.

PFERD offers an extensive range of solutions that meet the different requirements of machining tasks in pipeline construction.

Our products are ideal for demanding applications resulting in efficiency and quality work results. No matter which processing tasks need solving – rust removal, deburring, cleaning of weld and root weld seams – PFERD products are perfect for all pipeline construction work.

Every brush, every abrasive, every product PFERD manufactures, complies with maximum safety requirements. PFERD is a founding member of the “Organization for the Safety of Abrasives (oSa)”, and develops, manufactures and tests its products according to prescribed quality and safety requirements.

PFERD offers the combination of quality products, power tools and individual consultation for the optimum solution of your pipeline construction tasks. Location-specific solutions in pipeline construction are also available. Experienced field staff and members of the Technical Service team will be happy to advise you. Just give us a call.

We have applied our extensive experience and know-how to produce tailor-made solutions for sustainable economic use in pipeline construction. This brochure presents all the suitable PFERD products for pipeline construction.



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The PFERD TOOL MANUAL 23!

With more than 5,700 innovative solutions for surface finishing and material cutting.

Request your own free personal copy at pferd.com.



Technical customer support

Your local territory sales manager, customer service and applications team are always available to assist you. Please contact us:

Canada: (866) 245-1555

USA: (800) 342-9015

You will find our worldwide contact information at pferd.com.



To find additional products that may not be listed in this brochure, please reference the PFERD TOOL MANUAL 23, or contact customer support for more information.

Half round pipeline

Designed for filing pipeline welds and root passes, and for scale removal from pipeline.

PFERDVALUE®:



Length [Inches]	Cross-section [Inches]	Cut and EDP number	Compatible handle EDP	Included handle EDP	
		Bastard (cut 1) 			
Without handle					
14	1-3/8 x 11/32	11155	11148	-	5
With handle					
14	1-3/8 x 11/32	11155H	-	11148	5

Ergonomic file handles


Ergonomic file handles for comfortable and safe work. The combination of two high-grade plastic components in the file handle makes the file comfortable and easy to grip and guide over the workpiece.

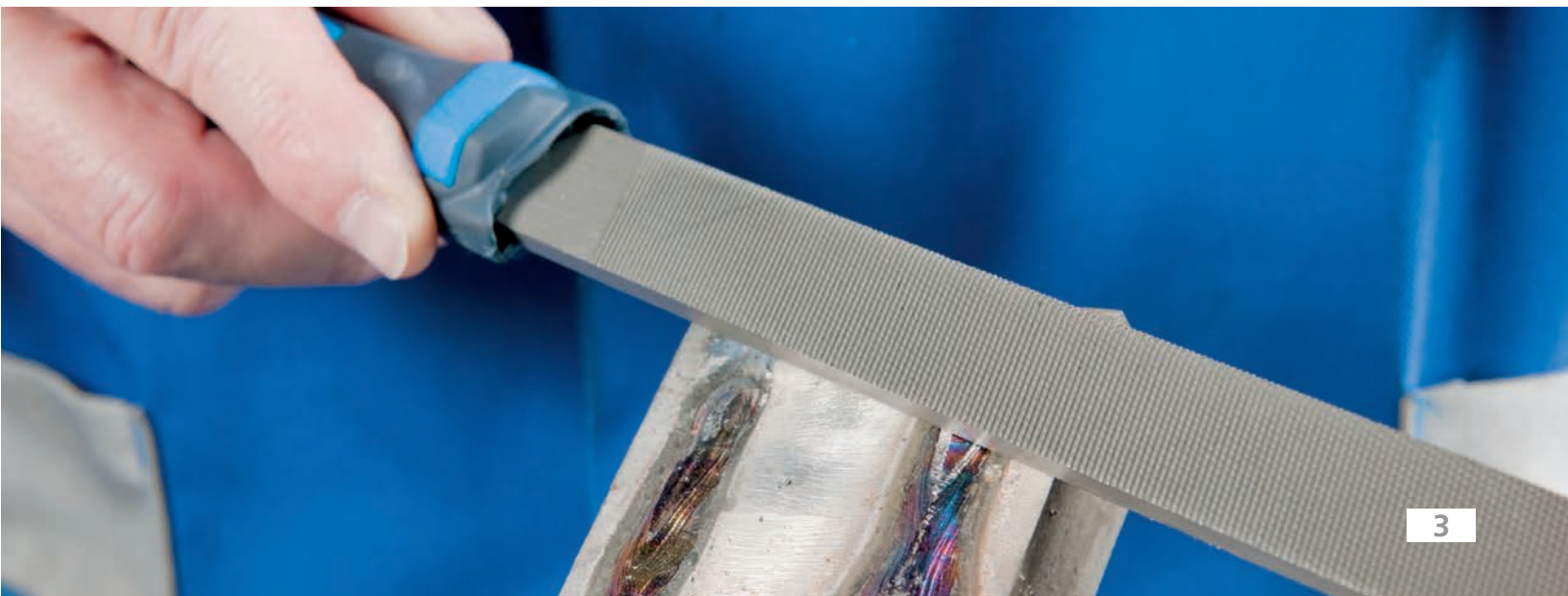
Advantages:

- Protects hands against sharp edges and corners.
- Ergonomic shape with optimized haptics.
- Files do not roll away.
- Soft plastic on the outside with a hard, stable inner part.
- Without plasticizer.

PFERDVALUE®:



Suitable for file length [Inches]	Overall length [Inches]	EDP number	Suitable for	
12, 14	4-1/2	11148	profiles three square, square, round, special profiles	10



PFERD products for pipeline construction

Cones and plugs



PFERD cones and plugs are made of regular aluminum oxide in a high-quality resinoid bond. Because of their hardness, these products are noted for their good stock removal rates and high durability.

Advantages:

- High stock removal rate.
- High edge-holding and dimensional stability.
- Cool grinding properties reduce the thermal load on the workpiece.

Application examples:

- Weld dressing on steel removing excess weld metals.
- Chamfering in preparation of welding operations.
- Grinding in hard-to-reach workpiece areas.
- Removing parting lines and imperfections at casting parts.
- Smoothing rough castings.

Recommendations for use:

- Cones and plugs perform best at the recommended peripheral speed of 6,900–9,800 SFPM.
- Recommended power tools include flexible shafts, electric or air-powered straight grinders and angle grinders.

Safety recommendations:

- The maximum speed is calculated in accordance with ANSI B7.1.
- Never exceed the maximum RPM listed on the label.



= Wear eye protection!



= Wear hearing protection!



= Wear dust respirators!



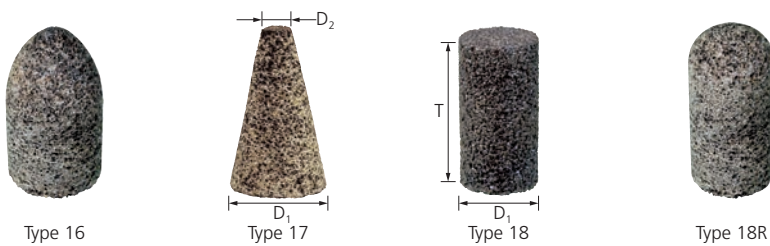
= Wear gloves!



= Follow the safety instructions!



= Read the Safety Data Sheets (SDS) before using any materials!



Cones and plugs

Cones and plugs are used for steel, cast steel and cast iron.

D1 [Inches]	D2 [Inches]	T [Inches]	Grit size	Thread and EDP number		Recom. RPM	Max. RPM	
				3/8-24	5/8-11			
Curved (type 16)								
1-1/2	-	2-1/2	16	61816	-	24,000	24,100	10
		3	16	-	61820	24,000	24,100	10
1-3/4	-	3	16	-	61826	20,600	20,700	10
2	-	3	16	-	61829	18,100	18,100	10
2-3/4	-	3-1/2	16	-	61837	13,100	13,200	10
3	-	3	16	-	61838	12,000	12,500	10
Tapered (type 17)								
1-1/2	3/8	2-1/2	16	61850	61851	24,000	24,100	10
	1/2	3	16	61854	61855	24,000	24,100	10
2	1/2	3	16	-	61859	14,500	18,100	10
Straight (type 18)								
1	-	2	16	61883	-	36,100	36,200	10
1-1/2	-	2-1/2	16	61884	61885	24,000	24,100	10
		3	16	61888	61889	24,000	24,100	10
2	-	3	16	-	61893	18,100	18,100	10
Straight (type 18R)								
1-1/2	-	2-1/2	16	61927	61928	24,000	24,100	10
		3	16	61931	61932	24,000	24,100	10
2	-	3	16	-	61936	18,100	18,100	10
3	-	3	16	-	61937	12,000	12,500	10

Zirconia alumina Z-COOL

For coarse grinding work with a high stock removal rate and cool grinding.

Active grinding additives in the coating substantially improve the stock removal rate, prevent loading and result in cooler grinding.

Abrasive:

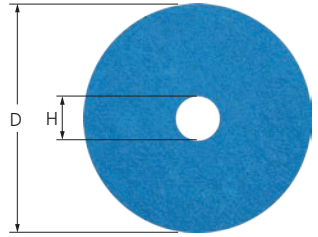
Zirconia alumina Z-COOL


Ordering notes:

- Please order backing pad separately. See below.

Recommendations for use:

- Use with high-powered angle grinders in the case of a higher contact pressure.



D [Inches]	H [Inches]	Grit and EDP number				Max. RPM	
		36	50	60	80		
7	7/8	62718	62719	62720	62721	8,500	25

Ceramic oxide CO-COOL

For aggressive grinding with maximum stock removal rate on hard materials which do not conduct heat well. Consistently high performance due to self-sharpening ceramic oxide grain.

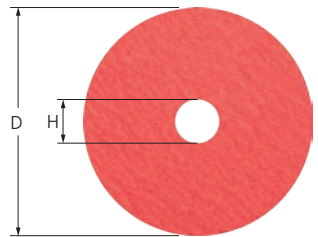
Active grinding additives in the coating substantially improve the stock removal rate, prevent loading and result in cooler grinding.


Abrasive:

Ceramic oxide CO-COOL

Ordering notes:

- Please order backing pad separately. See below.



D [Inches]	H [Inches]	Grit and EDP number						Max. RPM	
		24	36	50	60	80	120		
7	7/8	62749	62750	62751	62752	62753	62754	8,500	25

Backing pads for fibre discs

Backing pads for fibre discs used on commercially available angle grinders.

Rubber backing pads:

Rubber backing pad with a ribbed surface for better cooling to improve disc life. Available in three densities.

High-performance backing pads:

High-performance backing pad with a long service life due to abrasion-resistant, glass-fibre-reinforced plastic. Cool grinding due to radially arranged cooling fins, and high fibre disc stock removal rate due to sturdy, rigid design.

Temperature-resistant backing pads:

Temperature-resistant backing pad with a long service life due to the highly temperature-resistant material. High-precision work with flexible density. Maximum stock removal with hard density.




Ordering notes:

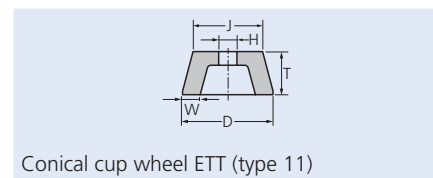
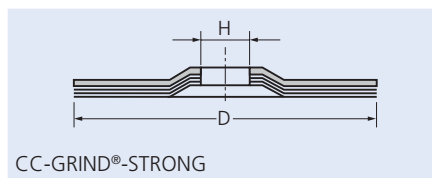
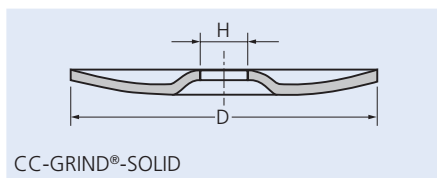
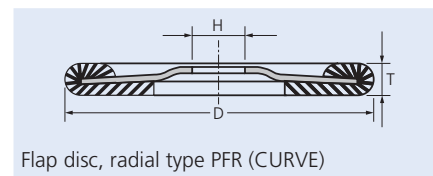
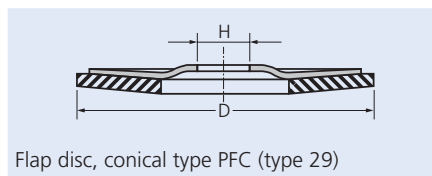
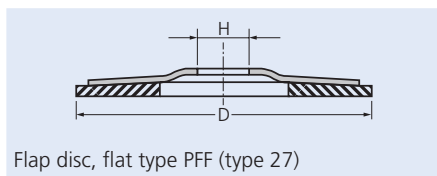
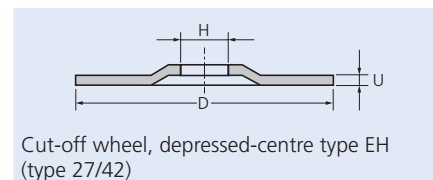
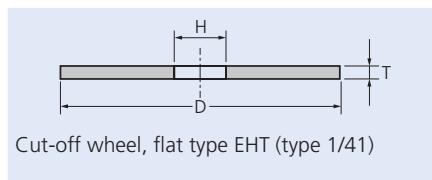
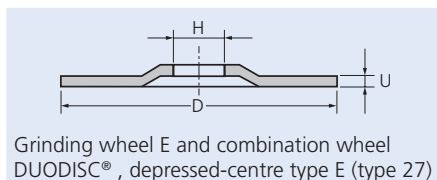
- The compatible clamping nut is included.

Accessories:

- Clamping nuts for backing pads

Compatible with these disc dia. [Inches]	Thread size [Inches]	Backing density	EDP number	Compatible clamping nut	Max. RPM	
Rubber backing pads (ribbed surface)						
7	5/8-11	Flexible (F)	69704	69108	8,500	1
		Regular (R)	69705	69108	8,500	1
		Hard (H)	69706	69108	8,500	1
High-performance backing pads						
7	5/8-11	Hard (H)	69487	42071	8,500	1
Temperature-resistant backing pads						
7	5/8-11	Flexible (F)	69486	42071	8,500	1
		Hard (H)	69488	42071	8,500	1

Product types and dimensions



Cutting and grinding safety



Abrasive wheel manufacturers, power tool manufacturers and users contribute equally to ensuring safety during cutting and grinding operations.

PFERD manufactures all its products according to the current safety standards. During cutting and grinding, the user is responsible for correct use of the power tool as well as correct handling and use of the abrasives.

The information required for the safe use of grinding wheels, cut-off wheels, cup wheels, flap wheels, POLIFAN® flap discs and CC-GRIND® grinding discs from PFERD is summarized here. In addition to this, user information relating to the power tool used, as well as the applicable provisions on health and safety at work, should always be observed.

Explanation of the labeling of abrasive products

- Always observe the instructions on the abrasive, the grinder and all accompanying user information. Abrasives made by PFERD conform to the highest quality and safety requirements and are marked according to the following key European and international safety standards:
 - ANSI B7.1 or B7.7
 - OSHA regulations
 - EN 12413, EN 13236, or EN 13743
- Use a grinder that is suitable for the respective application. A product that can not be clearly identified should never be used.
- Observe any use restrictions, warnings and safety instructions on the abrasive and on the accompanying labels or packaging:



= Not permitted for hand-held grinding!



= Not permitted for face grinding!



= Not permitted for wet grinding!



= Do not use if damaged!



= Follow the safety instructions!



= Wear eye protection!



= Wear hearing protection!



= Wear gloves!



= Wear a dust mask!



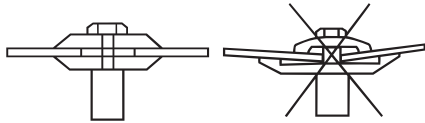
= Observe the minimum contact angle!

Storage of abrasive wheels

- Abrasive wheels should be stored in such a way as to prevent any adverse effects caused by moisture, frost or large temperature variations and so as to avoid mechanical damage. Do not use resinoid-bonded abrasive wheels or abrasive products using coated abrasives that have been exposed to severe humidity, damp, or high temperatures.

Mounting of abrasive wheels

- Only use grinders that are intended for use with the relevant product.
- Never use a grinder that is not in good condition.
- Use only abrasive wheels whose outer diameter and centre-hole diameter and/or thread match the specifications of the grinder.
- Never use damaged abrasive wheels. Abrasive wheels must be visually inspected and checked for any possible damage before each use.
- Keep mounting components clean and in good mechanical condition.
- Replace them if they become damaged or worn. If the manufacturer of the grinder provides tools for fixation of the abrasive tools (e.g. a key), then these are to be used.



- Tighten the clamping mechanism finger tight.
- In principle, only clamping flanges having a contact surface with the same outer diameter and which are identically shaped on the contact side are to be used. According to relevant US standard, for wheels of type 27 equal to or greater than 7" (180 mm) the locking nut shall seat within the depressed portion of the wheel. The flange adjacent to the wheel shall be equal to or greater than one-third of the wheel diameter and the outer part of the flange shall be free and clear from the wheel. For details see ANSI B7.1.
- If required, use blotters between the abrasive wheel and clamping components.
- Prevent the grinder from accidentally turning on, by disconnecting the power supply before mounting or changing the abrasive wheel.
- Never exceed the maximum operating speed of an abrasive wheel. Make sure that the speed of the grinder (rev/min, 1/min, RPM or min-1) does not exceed the maximum permissible speed given on the abrasive wheel, the accompanying label or packaging.
- Do not make any unauthorized changes to abrasive wheels.
- Each time that a wheel is mounted, perform a trial run at operating speed with the guard properly installed, for at least 1 minute. During the trial run, hold the grinder in such a way that in the event of any failure of the abrasive wheel you are not struck by any fragments.
- Clamping flanges for stationary cut-off wheels must meet today's requirements according to ANSI B7.1. Our PFERD sales department will be happy to advise you.

Use of abrasive wheels

- Ensure that the correct abrasive product is selected. Never use a product if it cannot be properly identified.
- Always be aware of the potential dangers during use of abrasive wheels.
- Always use protective equipment and guards in compliance with the operating instructions for the grinder and make sure they are properly mounted and in good condition, before you switch on the grinder.
- Comply with the ANSI B7.1 regulations on safety guards depending on the mounted wheel:
 - Type 1 wheels must be used with a guard covering at least 180° of the lateral wheel surface and face.
 - Type 6 and 11 cup wheels must be used with a guard covering 180° of the wheel's lateral surface towards the operator and the wheel's face towards the driving flange. Additionally, the guard must have a height-adjustable skirt.

- Type 27 and 29 wheels must be used with a guard covering 180° of the wheels lateral surface towards the operator and the wheel's face towards the driving flange. Additionally, the outer edge of the guard has to provide a lip curling inward at the whole 180° coverage in order to protect the user in case of wheel breakage.

- The workpiece must be fixed without tension by appropriate clamping devices or by its own weight.
- The grinder must always be turned on before the abrasive wheel comes into contact with the workpiece.
- Always bring abrasive wheels carefully into contact with the workpiece surface.
- Always guide cut-off wheels in a straight line. No lateral load should be applied to the cut-off wheel and it should not be used for face grinding.
- Grinders may only be put down once they have been turned off and have come to a complete stop.

Hazards due to product breakage, abrasive particles, sparks, dust, fumes, noise, vibration and bodily contact with the abrasive product at operation speed

- Warning! The grinding process may generate dust and fumes. Inhalation of grinding dust can lead to severe lung damage. Sufficient extraction or other appropriate measures must be provided and appropriate personal protective equipment must be worn at all times.
- The use of appropriate personal protective equipment is required for all grinding operations to provide protection against mechanical impacts, abrasive particles, sparks, dust and fumes, noise and vibration. This includes eye protection, ear protection, respiratory protection and hand protection. Long-sleeved, flame-resistant clothing and appropriate safety footwear must be worn. Tie back long hair and do not wear loose clothing, ties or jewelry. These rules apply not only to the operator of the grinder but also to any other persons in the working environment.
- Predominantly, dust and fumes in a grinding process originate from the workpiece material. Review the Safety Data Sheet (SDS) of the workpiece material.
- Do not use abrasive wheels in the vicinity of flammable materials.
- Flammable and explosive substances must be removed from the working environment before starting work. This includes, for example, dust deposits, cardboard, packaging material, textiles, wood and wood chips, as well as flammable liquids and gases.
- In the event of excessive vibrations stop the grinder and investigate these. Take immediate action if, when using an abrasive wheel, you begin to experience tingling, stinging or numbness in the hand or arms.
- Prevent accidental start-up of the grinder before mounting or changing an abrasive product. Isolate grinders from their power source where necessary.
- Never remove guards from grinders where fitted and ensure they are in good condition and properly adjusted before starting the grinder.
- After switching off the grinder, ensure the product has come to rest before leaving the grinder unattended.

Disposal of abrasive wheels

- Worn or defective abrasive wheels must be disposed of according to all local and/or national regulations.
- Note that abrasive wheels may become contaminated by work on certain materials.
- Abrasive wheels for disposal should be destroyed in a clearly visible manner in order to prevent re-use.
- Further information can be obtained from Voluntary Product information provided by the supplier.

PFERD products for pipeline construction

Grinding wheels, cut-off wheels, and flap discs – label information



Label

oSa – Organization for the Safety of Abrasives
PFERD voluntarily manufactures quality tools conforming to the strictest safety standards. Member companies of oSa are committed to continuous product safety and quality monitoring.

Safety information
Information on the safe use of abrasive products can be found on pages 6 and 7.

Material colour coding

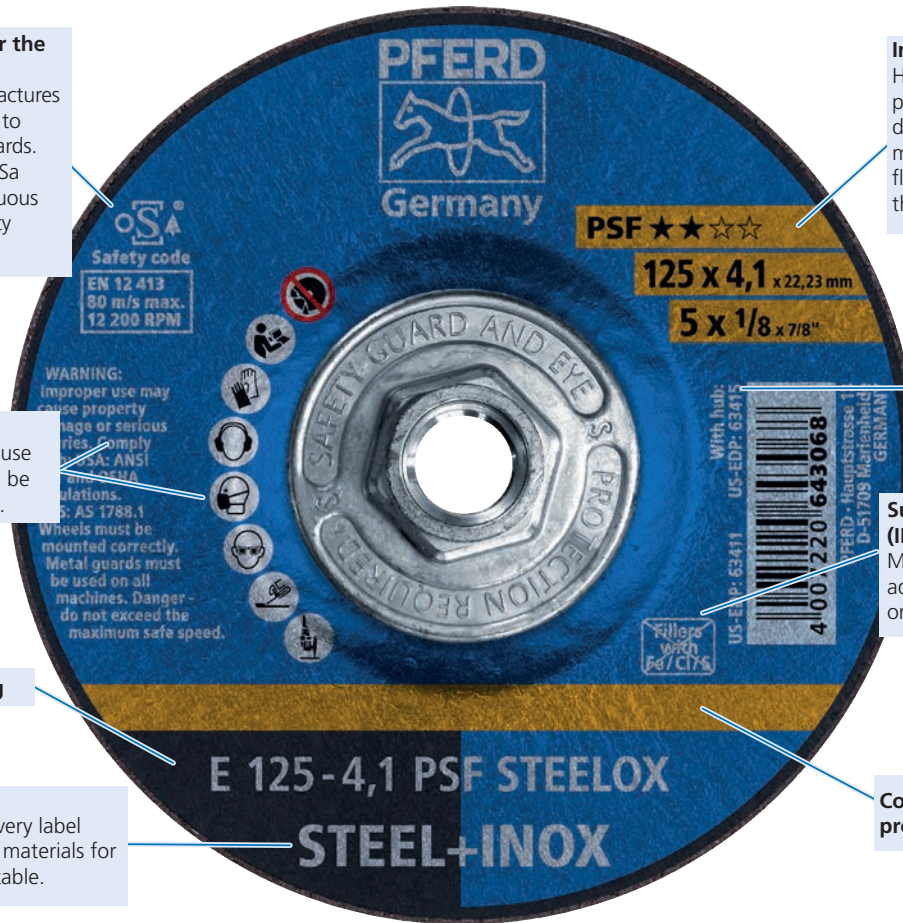
Material information
The bottom section of every label indicates the material or materials for which the product is suitable.

Information bar
Here you will find the product line, star rating, diameter, thickness, and arbor measurements. For POLIFAN® flap discs, you will also find the abrasive and grit size here.

EDP number

Suitable for stainless steel (INOX)
Manufactured without addition of ferrous, chlorinated or sulphurous fillers.

Colour bar referencing product line



Packaging label

PFERD supplies cut-off wheels, flap discs and grinding wheels in robust industrial packaging that protects the products against damage. All important technical and ordering information can be found on the new packaging label below.

Box quantity	25	Language-neutral technical information
Product line (colour coding system)	STEELOX	PFERD description
Material information	INOX Stainless	EAN (European Article Number)
Product type	EHT 125-1,0 SG STEELOX	EDP and UPC code
Packing date and lot number	Packed on: 03.2018 Lot-Nr. 12345678	










PFERD products for pipeline construction

Pipeline grinding wheels at a glance

PFERD 1/8" thick pipeline grinding wheels are designed for grinding and cutting of pipeline root pass, weld and flame cut grinding. The wheels listed below are unique to the pipeline market. Specializing in the pipeline industry, PFERD also produces a wide variety of other abrasive wheels including 1/4" thick grinding wheels, cut-off wheels and flap discs.



Picture	D [Inches]	U [Inches]	7/8" plain arbor hole	5/8-11" arbor hole	Page number
			EDP number		
PSF STEELOX ★★☆☆ for steel and stainless steel (INOX)					
	4-1/2	1/8	63410	63414	11
	5	1/8	63411	63415	
	6	1/8	63398	63418	
	7	1/8	63412	63416	
	9	1/8	63413	63417	
SG STEEL ★★☆☆ for steel					
	4-1/2	1/8	63400	63405	12
	5	1/8	63406	63407	
	6	1/8	63399	63408	
	7	1/8	63401	63403	
	9	1/8	63402	63404	
SG INOX ★★☆☆ for stainless steel (INOX)					
	4-1/2	1/8	61104	61113	13
SG NOTCHING STEELOX ★★☆☆ for steel and stainless steel (INOX)					
	4-1/2	1/8	63421	63427	13
	5	1/8	63422	63428	
	6	1/8	63423	63429	
	7	1/8	63424	63430	
	9	1/8	63425	63431	
SG ALU ★★☆☆ for aluminum					
	4-1/2	1/8	61311	61312	14
ZIRKON SG CAST + STEEL ★★☆☆ for steel and cast iron					
	4-1/2	1/8	63251	63255	15
	5	1/8	63252	63256	
	6	1/8	63250	63259	
	7	1/8	63253	63257	
	9	1/8	63254	63258	
CERAMIC SGP STEELOX ★★☆☆ for steel and stainless steel (INOX)					
	4-1/2	1/8	60088	60093	18
	5	1/8	60089	60094	
	6	1/8	60090	60095	
	7	1/8	60091	60096	
	9	1/8	60092	60097	

PFERD products for pipeline construction

Grinding wheels – Universal Line PSF ★★☆☆



PSF STEEL ★★☆☆

General purpose grinding wheel with high stock removal rate and long service life for steel.

Advantages:

- Reduced labour time and increased economic efficiency due to the high stock removal rate.
- Long service life.
- Also suitable for low-powered angle grinders (< 9 amps). Achieves high stock removal rates even at low contact pressure.

Workpiece materials:

steel, cast iron

Applications:




weld dressing, chamfering, deburring, surface grinding, fillet weld edge grinding

Abrasive:

Aluminum oxide A

Technical information:

A 24 R

D [Inches]	U [Inches]	H [Inches]	EDP number	Max. RPM	
Depressed centre (type 27) – plain arbor hole					
					
4-1/2	1/4	7/8	60006	13,300	10
5	1/4	7/8	60007	12,200	10
7	1/4	7/8	60009	8,500	10
Depressed centre (type 27) – threaded arbor hole					
					
4-1/2	1/4	5/8-11	60014	13,300	10
5	1/4	5/8-11	60015	12,200	10
7	1/4	5/8-11	60017	8,500	10



PSF STEELOX ★★☆☆

General purpose grinding wheel with high stock removal rate and good service life for steel and stainless steel (INOX).

Advantages:

- Universally suitable for steel and stainless steel (INOX).
- Reduced labour time and increased economic efficiency due to the high stock removal rate.
- Good service life.
- Also suitable for low-powered angle grinders (< 9 amps). Achieves high stock removal rates even at low contact pressure.

Workpiece materials:

steel, stainless steel (INOX)

Applications:

weld dressing, chamfering, deburring, surface grinding, fillet weld edge grinding

Abrasive:

Aluminum oxide A


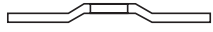

Technical information:

A 24 L

Recommendations for use:

- 1/8" thick grinding wheels are ideal for edge/root pass grinding.



D [Inches]	U [Inches]	H [Inches]	EDP number	Max. RPM	
Depressed centre (type 27) – plain arbor hole					
					
4	1/4	5/8	61000	15,300	10
4-1/2	1/8	7/8	63410	13,300	10
	1/4	7/8	61002	13,300	10
5	1/8	7/8	63411	12,200	10
	1/4	7/8	61003	12,200	10
6	1/8	7/8	63398	10,200	10
	1/4	7/8	61011	10,200	10
7	1/8	7/8	63412	8,500	10
	1/4	7/8	61004	8,500	10
9	1/8	7/8	63413	6,600	10
	1/4	7/8	61005	6,600	10
Depressed centre (type 27) – threaded arbor hole					
					
4-1/2	1/8	5/8-11	63414	13,300	10
	1/4	5/8-11	61001	13,300	10
5	1/8	5/8-11	63415	12,200	10
	1/4	5/8-11	61008	12,200	10
6	1/8	5/8-11	63418	10,200	10
	1/4	5/8-11	61012	10,200	10
7	1/8	5/8-11	63416	8,500	10
	1/4	5/8-11	61006	8,500	10
9	1/8	5/8-11	63417	6,600	10
	1/4	5/8-11	61007	6,600	10

PFERD products for pipeline construction

Grinding wheels – Performance Line SG ★★★★★



SG STEEL ★★★★★

Grinding wheel for steel with high stock removal and very long service life.

Advantages:

- Reduced labour time and maximum economic efficiency due to the high stock removal rate.
- Fewer wheel changes due to the very long service life.

Workpiece materials:

steel

Applications:

weld dressing, chamfering, deburring, surface grinding, fillet weld edge grinding

Abrasive:

Premium aluminum oxide A

Technical information:

A 24 R

Recommendations for use:

- 1/8" thick grinding wheels are ideal for edge/root pass grinding.

D [Inches]	U [Inches]	H [Inches]	EDP number	Max. RPM	
Depressed centre (type 27) – plain arbor hole					
					
4-1/2	1/8	7/8	63400	13,300	10
	1/4	7/8	61026	13,300	10
5	1/8	7/8	63406	12,200	10
	1/4	7/8	61028	12,200	10
6	1/8	7/8	63399	10,200	10
	1/4	7/8	61030	10,200	10
7	1/8	7/8	63401	8,500	10
	1/4	7/8	61032	8,500	10
9	1/8	7/8	63402	6,600	10
	1/4	7/8	61035	6,600	10
Depressed centre (type 27) – threaded arbor hole					
					
4-1/2	1/8	5/8-11	63405	13,300	10
	1/4	5/8-11	61038	13,300	10
5	1/8	5/8-11	63407	12,200	10
	1/4	5/8-11	61040	12,200	10
6	1/8	5/8-11	63408	10,200	10
	1/4	5/8-11	61042	10,200	10
7	1/8	5/8-11	63403	8,500	10
	1/4	5/8-11	61044	8,500	10
9	1/8	5/8-11	63404	6,600	10
	1/4	5/8-11	61047	6,600	10



SG INOX ★★☆☆

Grinding wheel for stainless steel (INOX) with high stock removal rate and very long service life.

Advantages:

- Soft, cool grinding on stainless steel (INOX).
- Reduced labour time and maximum economic efficiency due to the high stock removal rate.
- Fewer wheel changes due to the very long service life.

Workpiece materials:

stainless steel (INOX)

Applications:

weld dressing, chamfering, deburring, surface grinding, fillet weld edge grinding

Abrasive:

Premium aluminum oxide A


Technical information:

A 24 N

Recommendations for use:

- 1/8" thick grinding wheels are ideal for edge/root pass grinding.



D [Inches]	U [Inches]	H [Inches]	EDP number	Max. RPM	
Depressed centre (type 27) – plain arbor hole					
4-1/2	1/8	7/8	61104	13,300	10
Depressed centre (type 27) – threaded arbor hole					
4-1/2	1/8	5/8-11	61113	13,300	10

SG NOTCHING STEELOX ★★☆☆

Specialized notching wheel for steel and stainless steel (INOX) with very long service life.

Advantages:

- Universally suitable for steel and stainless steel (INOX).
- Fewer wheel changes due to the very long service life.
- High edge stability.
- Ideal for working on stainless steel (INOX) TIG-welds.

Workpiece materials:

steel, stainless steel (INOX)

Applications:

notching, root pass grinding, cutting

Abrasive:

Premium aluminum oxide A


Technical information:

A 46 R

Recommendations for use:

- Must be used only on the edge and perpendicular to the workpiece.
- 1/8" thick notching wheels are ideal for edge grinding and cutting of pipeline root pass, and notching for weld repairs.



D [Inches]	U [Inches]	H [Inches]	EDP number	Max. RPM	
Depressed centre (type 27) – plain arbor hole					
4-1/2	1/8	7/8	63421	13,300	10
5	1/8	7/8	63422	12,200	10
6	1/8	7/8	63423	10,200	10
7	1/8	7/8	63424	8,500	10
9	1/8	7/8	63425	6,600	10
Depressed centre (type 27) – threaded arbor hole					
4-1/2	1/8	5/8-11	63427	13,300	10
5	1/8	5/8-11	63428	12,200	10
6	1/8	5/8-11	63429	10,200	10
7	1/8	5/8-11	63430	8,500	10
9	1/8	5/8-11	63431	6,600	10

PFERD products for pipeline construction

Grinding wheels – Performance Line SG ★★★★★



SG ALU ★★★★★

Grinding wheel for aluminum and other non-ferrous metals with high stock removal rate and very long service life.

Advantages:

- Operates without the grinding wheel loading even on soft aluminum alloys.
- Reduced labour time and maximum economic efficiency due to the high stock removal rate.
- Fewer wheel changes due to the very long service life.
- Contains no fillers that could leave residues on the workpiece. The surface can be welded without secondary operations.

Workpiece materials:

aluminum, other non-ferrous metals

Applications:

weld dressing, chamfering, deburring, surface grinding, fillet weld edge grinding

Abrasive:


Premium aluminum oxide A and silicon carbide C

Technical information:

C 24 N

Recommendations for use:

- 1/8" thick grinding wheels are ideal for edge/root pass grinding.

D [Inches]	U [Inches]	H [Inches]	EDP number	Max. RPM	
Depressed centre (type 27) – plain arbor hole					
4-1/2	1/8	7/8	61311	13,300	10
Depressed centre (type 27) – threaded arbor hole					
4-1/2	1/8	5/8-11	61312	13,300	10





PFERD products for pipeline construction

Grinding wheels – Performance Line SG ★★★★★

ZIRKON SG CAST + STEEL ★★★★★

Zirconia alumina grinding wheel for cast iron and steel with excellent material removal rate and very long service life.

Advantages:

- Reduced labour time and increased economic efficiency due to the high stock removal rate.
- Fewer wheel changes due to the very long service life.

Workpiece materials:

grey/nodular cast iron, steel

Applications:

weld dressing, chamfering, deburring, surface grinding, fillet weld edge grinding

Abrasive:

Zirconia alumina Z and special aluminum oxide A


Technical information:

ZA 30 S

Recommendations for use:

- 1/8" thick grinding wheels are ideal for edge/root pass grinding.



D [Inches]	U [Inches]	H [Inches]	EDP number	Max. RPM	
Depressed centre (type 27) – plain arbor hole					
4-1/2	1/8	7/8	63251	13,300	10
	1/4	7/8	61602	13,300	10
5	1/8	7/8	63252	12,200	10
	1/4	7/8	61604	12,200	10
6	1/8	7/8	63250	10,200	10
	1/4	7/8	61613	10,200	10
7	1/8	7/8	63253	8,500	10
	1/4	7/8	61605	8,500	10
9	1/8	7/8	63254	6,600	10
	1/4	7/8	61606	6,600	10
Depressed centre (type 27) – threaded arbor hole					
4-1/2	1/8	5/8-11	63255	13,300	10
	1/4	5/8-11	61603	13,300	10
5	1/8	5/8-11	63256	12,200	10
	1/4	5/8-11	61614	12,200	10
6	1/8	5/8-11	63259	10,200	10
	1/4	5/8-11	61616	10,200	10
7	1/8	5/8-11	63257	8,500	10
	1/4	5/8-11	61607	8,500	10
9	1/8	5/8-11	63258	6,600	10
	1/4	5/8-11	61608	6,600	10



PFERD products for pipeline construction

Grinding wheels – Performance Line SG ★★★★★

CERAMIC COMFORT

The CERAMIC SG COMFORT is a hybrid grinding wheel for steel. It combines a top layer of coated abrasive and a rough grinding wheel.

Advantages:

- Due to the combination of a coated abrasive layer and a rough grinding wheel with a high stock removal rate, the CERAMIC SG COMFORT offers significantly reduced labour time and maximum economic efficiency.
- Fewer wheel changes due to the very long service life.
- Can be used for peripheral grinding (on edge).
- Significantly lower noise emissions and vibration when compared to conventional grinding wheels.



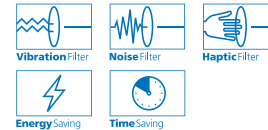
CERAMIC SG COMFORT STEEL ★★★★★


Workpiece materials:
steel

Applications:
weld dressing, chamfering, deburring, surface grinding

Abrasive:
Ceramic oxide grain CO and special aluminum oxide A

PFERDVALUE®:



D [Inches]	U [Inches]	H [Inches]	EDP number	Max. RPM	
Depressed centre (type 27) – plain arbor hole					
4-1/2	5/16	7/8	60150	13,300	10
5	5/16	7/8	60151	12,200	10
Depressed centre (type 27) – threaded arbor hole					
4-1/2	5/16	5/8-11	60155	13,300	10
5	5/16	5/8-11	60156	12,200	10



WHISPER

Due to its patented multi-layer design, the WHISPER grinding wheel generates significantly less vibration and noise than conventional grinding wheels. The noise exposure is decreased by up to 12 dBA, a reduction of more than 90%. The flexible construction enables soft, comfortable grinding with outstanding surface finish.

Advantages:

- Universally suitable for steel and stainless steel (INOX).
- Significantly lower noise emissions and vibration than with conventional grinding wheels.
- Comfortable grinding.
- Excellent solution for mill scale.



SGP WHISPER STEELOX ★★★★★

Workpiece materials:
steel, mill scale, stainless steel (INOX)


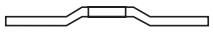

Applications:
weld dressing, surface grinding, fillet weld edge grinding

Abrasive:
Special aluminum oxide A

Technical information:
A 46 H

PFERDVALUE®:



D [Inches]	U [Inches]	H [Inches]	EDP number	Max. RPM	
Depressed centre (type 27) – plain arbor hole					
4-1/2	1/4	7/8	61582	13,300	10
5	1/4	7/8	61583	12,200	10
Depressed centre (type 27) – threaded arbor hole					
4-1/2	1/4	5/8-11	61588	13,300	10
5	1/4	5/8-11	61589	12,200	10



PFERD products for pipeline construction

Grinding wheels – Special Line SGP ★★★★★



CERAMIC

High-performance grinding wheel with ceramic oxide grain for cool grinding with excellent productivity.

Advantages:

- Outstanding aggressiveness and service life due to the self-sharpening effect of the high-performance abrasive ceramic oxide grain.
- Labour cost savings due to much higher material removal rate compared to conventional grinding wheels.
- Reduced operator strain – maximum performance with minimal contact pressure.



CERAMIC SGP STEELOX ★★★★★

Workpiece materials:
steel, stainless steel (INOX)

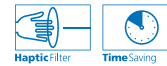
Applications:
weld dressing, chamfering, deburring, surface grinding, fillet weld edge grinding


Abrasive:
Ceramic oxide grain CO


Technical information:
CO 24 Q

Recommendations for use:
■ 1/8" thick grinding wheels are ideal for edge/root pass grinding.

PFERDVALUE®:



D [Inches]	U [Inches]	H [Inches]	EDP number	Max. RPM	
Depressed centre (type 27) – plain arbor hole					
4-1/2	1/8	7/8	60088	13,300	10
	1/4	7/8	60055	13,300	10
5	1/8	7/8	60089	12,200	10
	1/4	7/8	60056	12,200	10
6	1/8	7/8	60090	10,200	10
	1/4	7/8	60057	10,200	10
7	1/8	7/8	60091	8,500	10
	1/4	7/8	60058	8,500	10
9	1/8	7/8	60092	6,600	10
	1/4	7/8	60059	6,600	10

D [Inches]	U [Inches]	H [Inches]	EDP number	Max. RPM	
Depressed centre (type 27) – threaded arbor hole					
4-1/2	1/8	5/8-11	60093	13,300	10
	1/4	5/8-11	60063	13,300	10
5	1/8	5/8-11	60094	12,200	10
	1/4	5/8-11	60064	12,200	10
6	1/8	5/8-11	60095	10,200	10
	1/4	5/8-11	60065	10,200	10
7	1/8	5/8-11	60096	8,500	10
	1/4	5/8-11	60066	8,500	10
9	1/8	5/8-11	60097	6,600	10
	1/4	5/8-11	60067	6,600	10

SG STEEL ★★☆☆

Cup wheel with high grinding performance and long service life.

Advantages:

- High grinding performance.
- Long service life.

Workpiece materials:

steel

Applications:

weld dressing, chamfering, deburring, surface grinding

Abrasive:

Aluminum oxide A

Technical information:

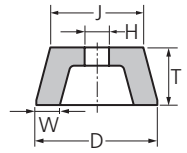
A 16 Q


Recommendations for use:

- Place at a slight incline to work on weld seams.

Safety notes:

- The permissible maximum operating speed is 9,800 SFPM.



D [Inches]	J [Inches]	EDP number	T [Inches]	H [Inches]	W [Inches]	Max. RPM	
Conical cup wheel ETT (shape 11)							
4	3-1/2	61801	2	5/8-11	1	9,360	2
5	3-3/4	61802	2	5/8-11	1-1/2	7,510	2
6	4-3/4	61803	2	5/8-11	1-1/2	6,280	2



PFERD products for pipeline construction

CC-GRIND®-SOLID – Performance Line SG ★★☆☆



CC-GRIND®-SOLID SG STEEL ★★☆☆

Workpiece materials:
steel

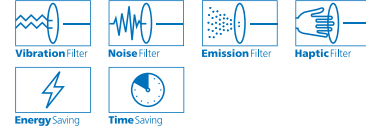
Applications:
surface grinding, weld dressing, chamfering, deburring



Recommendations for use:
 ■ For optimum results, use with a flat contact angle and the SFS CC-GRIND® flange set.
 ■ Only use the face of the disc, not suitable for peripheral grinding (on edge).


Ordering notes:

■ Please order flange set SFS separately.

PFERDVALUE®:



D [Inches]	H [Inches]	EDP number	Compatible mounting flange set	Max. RPM	
SOLID – plain arbor hole 					
4-1/2	7/8	61200	EDP 69116 (5/8-11)	13,300	10
5	7/8	61201	EDP 69116 (5/8-11)	12,200	10
6	7/8	61202	EDP 69117 (5/8-11)	10,200	10
7	7/8	61203	EDP 69117 (5/8-11)	8,500	10

SOLID – threaded arbor hole 					
4-1/2	5/8-11	61220	–	13,300	10
5	5/8-11	61221	–	12,200	10
6	5/8-11	61222	–	10,200	10
7	5/8-11	61223	–	8,500	10



CC-GRIND®-SOLID SG INOX ★★☆☆

Workpiece materials:
stainless steel (INOX)

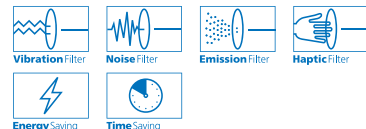
Applications:
weld dressing, chamfering, deburring



Recommendations for use:
 ■ For optimum results, use with a flat contact angle and the SFS CC-GRIND® flange set.
 ■ Only use the face of the disc, not suitable for peripheral grinding (on edge).


Ordering notes:

■ Please order flange set SFS separately.

PFERDVALUE®:



D [Inches]	H [Inches]	EDP number	Compatible CC-GRIND® mounting flange set	Max. RPM	
SOLID – plain arbor hole 					
4-1/2	7/8	61215	EDP 69116 (5/8-11)	13,300	10
5	7/8	61216	EDP 69116 (5/8-11)	12,200	10
7	7/8	61218	EDP 69117 (5/8-11)	8,500	10

SOLID – threaded arbor hole 					
4-1/2	5/8-11	61235	–	13,300	10
5	5/8-11	61236	–	12,200	10
7	5/8-11	61238	–	8,500	10



CC-GRIND® mounting flange set

The CC-GRIND® mounting flange set optimally aligns the CC-GRIND®-SOLID in the angle grinder protective guard. This allows a very flat contact angle with maximum efficiency. The black backing pad is placed on the original mounting flange of the angle grinder. The silver flange nut replaces the original flange nut.

CC-GRIND®-STRONG

The CC-GRIND®-STRONG is the stepping stone between the classic grinding wheel (the backing pad also grinds) and the modern alternative CC-GRIND®-SOLID (fast, ergonomic grinding).

Advantages:

- Three times the service life compared to CC-GRIND®-SOLID SG STEEL due to the unique combination of stacked coated discs with a bonded abrasive support.
- Maximum productivity due to highly aggressive abrasive.
- Significantly more ergonomic than a conventional grinding wheel: noise and vibrations are reduced by 50%, dust by 70%.
- Superior surface finish compared to conventional grinding wheels.



CC-GRIND®-STRONG SG STEEL ★★☆☆

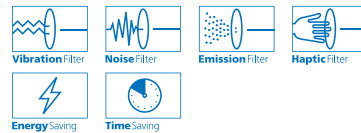
Workpiece materials:




steel, mill scale

Applications:

weld dressing, chamfering, deburring

PFERDVALUE®:



D [Inches]	H [Inches]	EDP number	Max. RPM	
STRONG – plain arbor hole				
				
4-1/2	7/8	61262	13,300	10
5	7/8	61263	12,200	10
STRONG – threaded arbor hole				
				
4-1/2	5/8-11	61266	13,300	10
5	5/8-11	61267	12,200	10



PFERD products for pipeline construction

Cut-off wheels – Universal Line PSF ★★☆☆



PSF STEEL ★★☆☆

Fast-cutting cut-off wheel for steel with long service life.

Advantages:

- Reduced cutting time.
- Increased economic efficiency due to long service life.

Workpiece materials:

steel

Applications:

cutting sheet metal, cutting hollow sections, cutting solid materials

Abrasive:

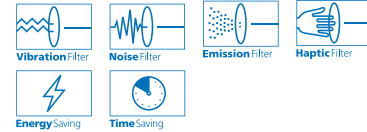
Aluminum oxide A


Technical information:

A 46 P

PFERDVALUE®:

Thin cut-off wheels:



D [Inches]	T/U [Inches]	H [Inches]	EDP number	Max. RPM	
Flat (type 1/41) – plain arbor hole					
4-1/2	.040	7/8	69945	13,300	25
	.045	7/8	69949	13,300	25
5	.040	7/8	69950	12,200	25
	.045	7/8	69954	12,200	25
6	.045	7/8	69964	10,200	25
Depressed centre (type 27/42) – plain arbor hole					
4-1/2	.045	7/8	69908	13,300	25
	3/32	7/8	69909	13,300	25
5	.045	7/8	69910	12,200	25
	3/32	7/8	69911	12,200	25
Depressed centre (type 27/42) – threaded arbor hole					
4-1/2	.045	5/8-11	69912	13,300	10
	3/32	5/8-11	69913	13,300	10
5	.045	5/8-11	69914	12,200	10
	3/32	5/8-11	69915	12,200	10

Accessories



Flange set for cut-off wheels

Special accessory providing increased lateral stability and improved power transfer to abrasive cut-off wheels. Made of high-grade tool steel.

Recommendation for use:

Provides superior lateral stability and precise wheel control, especially with 7" and 9" diameter thin cut-off wheels (≤ .080" thickness).



D [Inches]	Machine spindle thread [Inches]	EDP number	
3	5/8-11	69038	1

PSF STEELOX ★★☆☆

Fast-cutting cut-off wheel for steel and stainless steel (INOX) with long service life.

Advantages:

- Single solution for steel and stainless steel (INOX).
- Reduced cutting time.
- Increased economic efficiency due to long service life.
- Ideal for use with cordless angle grinders.

Workpiece materials:

steel, stainless steel (INOX)

Applications:

cutting sheet metal, cutting hollow sections, cutting solid materials

Abrasive:

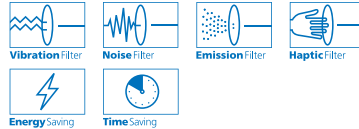
Aluminum oxide A


Technical information:

A 46 P

PFERDVALUE®:

Thin cut-off wheels:



D [Inches]	T/U [Inches]	H [Inches]	EDP number	Max. RPM	
Flat (type 1/41) – plain arbor hole					
4-1/2	.040	7/8	63540	13,300	25
	.045	7/8	63550	13,300	25
5	.040	7/8	63541	12,200	25
	.045	7/8	63551	12,200	25
6	.045	7/8	63559	10,200	25
	.045	7/8	63553	8,500	25
7	3/32	7/8	63566	8,500	25
	.065	7/8	63554	6,600	25
9	3/32	7/8	63567	6,600	25
	Depressed centre (type 27/42) – plain arbor hole				
4-1/2	.045	7/8	63717	13,300	25
	3/32	7/8	63718	13,300	25
5	.045	7/8	63719	12,200	25
	3/32	7/8	63720	12,200	25
Depressed centre (type 27/42) – threaded arbor hole					
4-1/2	.045	5/8-11	63721	13,300	10
	3/32	5/8-11	63722	13,300	10
5	.045	5/8-11	63723	12,200	10
	3/32	5/8-11	63724	12,200	10



PFERD products for pipeline construction

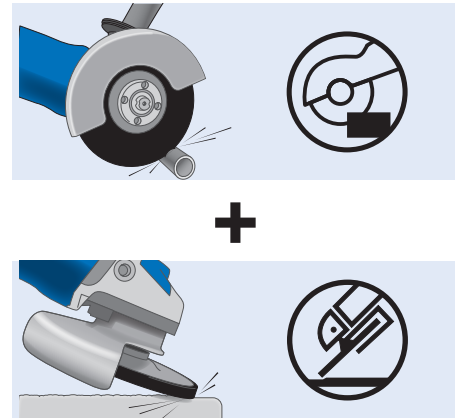
Combination wheels – Universal Line PSF ★★☆☆☆

DUODISC®

The DUODISC® combination wheel is the safest solution for cutting and grinding with just one wheel. It meets the strictest requirements stated in global safety standards for cutting and grinding wheels.

Advantages:

- Safe solution for cutting and surface grinding with just one wheel.
- Time savings due to reduced wheel changes when alternating between cutting and surface grinding.
- Single solution for steel and stainless steel (INOX).
- .065" thickness is ideal for cordless angle grinders.
- Excellent solution for mill scale.



PSF DUODISC® STEELOX combination wheel ★★☆☆☆

Combination wheel for steel and stainless steel (INOX) with fast cutting action and long service life.

Workpiece materials:
steel, stainless steel (INOX)

PFERDVALUE®:



Applications:
cutting, deburring, surface grinding, fillet weld grinding, notching, weld dressing

Abrasive:
Aluminum oxide A

Technical information:
A 46 P

D [Inches]	T [Inches]	H [Inches]	EDP number	Max. RPM	
Depressed centre (type 27) – plain arbor hole					
4-1/2	.065	7/8	63320	13,300	10
	1/8	7/8	63333	13,300	10
5	.065	7/8	63321	12,200	10
	1/8	7/8	63334	12,200	10
6	1/8	7/8	63335	10,200	10
	1/8	7/8	63336	8,500	10
Depressed centre (type 27/42) – threaded arbor hole					
4-1/2	.065	5/8-11	63326	13,300	10
	1/8	5/8-11	63339	13,300	10
5	.065	5/8-11	63327	12,200	10
	1/8	5/8-11	63340	12,200	10
6	1/8	5/8-11	63341	10,200	10
	1/8	5/8-11	63342	8,500	10



SG STEEL ★★☆☆

Fast-cutting cut-off wheel for steel with very long service life.

Advantages:

- Reduced cutting time.
- Maximum economic efficiency due to very long service life.

Workpiece materials:

steel

Applications:

cutting sheet metal, cutting hollow sections, cutting solid materials

Abrasive:

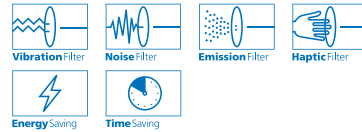
High-performance aluminum oxide A


Technical information:

A 46 S

PFERDVALUE®:

Thin cut-off wheels:



D [Inches]	T/U [Inches]	H [Inches]	EDP number	Max. RPM	
Depressed centre (type 27/42) – plain arbor hole					
4-1/2	.045	7/8	63162	13,300	25
	3/32	7/8	63103	13,300	25
	1/8	7/8	63104	13,300	25
5	.045	7/8	63163	12,200	25
	3/32	7/8	63105	12,200	25
	1/8	7/8	63106	12,200	25
6	.045	7/8	63164	10,200	25
	1/8	7/8	63107	10,200	25
7	.045	7/8	63165	8,500	25
	1/8	7/8	63109	8,500	25
9	.045	7/8	63111	6,600	25
	1/8	7/8	63111	6,600	25
Depressed centre (type 27/42) – threaded arbor hole					
4-1/2	.045	5/8-11	63182	13,300	10
	3/32	5/8-11	63114	13,300	10
	1/8	5/8-11	63115	13,300	10
5	.045	5/8-11	63183	12,200	10
	3/32	5/8-11	63116	12,200	10
	1/8	5/8-11	63117	12,200	10
6	.045	5/8-11	63184	10,200	10
	1/8	5/8-11	63119	10,200	10
7	.045	5/8-11	63112	8,500	10
	1/8	5/8-11	63112	8,500	10
9	.045	5/8-11	63113	6,600	10
	1/8	5/8-11	63113	6,600	10

PFERD products for pipeline construction

Cut-off wheels – Special Line SGP ★★★★★



CERAMIC

Fast-cutting cut-off wheel with ceramic oxide grain for steel with outstanding service life. Optimized for use on steel workpieces with larger cross sections.

Advantages:

- Super fast-cutting even on large cross sections due to high-performance ceramic oxide grain in a special bond formula.
- Maximum economic efficiency due to very long service life.



CERAMIC SGP STEEL ★★★★★

Workpiece materials:
steel

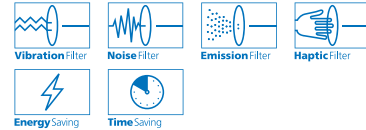
Applications:
cutting large cross-sections, cutting solid materials


Abrasive:
Ceramic oxide CO

Technical information:
CO 46 Q

PFERDVALUE®:

Thin cut-off wheels:



D [Inches]	T/U [Inches]	H [Inches]	EDP number	Max. RPM	
Flat (type 1/41) – plain arbor hole					
4-1/2	.040	7/8	63657	13,300	25
	.045	7/8	63658	13,300	25
	.080	7/8	63659	13,300	25
5	.040	7/8	63660	12,200	25
	.045	7/8	63661	12,200	25
	.080	7/8	63662	12,200	25
6	.045	7/8	63663	10,200	25
7	.045	7/8	63664	8,500	25
	3/32	7/8	63665	8,500	25
9	.065	7/8	63666	6,600	25
	3/32	7/8	63668	6,600	25
Depressed centre (type 27/42) – plain arbor hole					
4-1/2	.045	7/8	63639	13,300	25
5	.045	7/8	63640	12,200	25
Depressed centre (type 27/42) – threaded arbor hole					
4-1/2	.045	5/8-11	63669	13,300	10
5	.045	5/8-11	63670	12,200	10

SGP STEELOX ★★★★★

Fast-cutting cut-off wheel for steel and stainless steel (INOX) with an excellent service life. Specially optimized for use on thin metal sheets and hollow sections.



Workpiece materials:
steel, stainless steel (INOX)

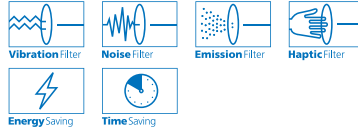
Applications:
cutting thin sheet metal and hollow sections

Abrasive:
High-performance aluminum oxide A

Technical information:
A 46 S


PFERDVALUE®:

Thin cut-off wheels:



Advantages:

- Excellent service life on thin sheet metal and hollow sections due to hard, wear-resistant bond formula.
- Single solution for steel and stainless steel (INOX).
- Reduced cutting time.

D [Inches]	T/U [Inches]	H [Inches]	EDP number	Max. RPM	
Flat (type 1/41) – plain arbor hole					
4-1/2	.030	7/8	69817	13,300	25
	.040	7/8	69845	13,300	25
	.045	7/8	69846	13,300	25
	3/32	7/8	63635	13,300	25
5	.030	7/8	69818	12,200	25
	.040	7/8	69855	12,200	25
	.045	7/8	69857	12,200	25
	3/32	7/8	63636	12,200	25
6	.045	7/8	69865	10,200	25
7	.045	7/8	69872	8,500	25
	3/32	7/8	63533	8,500	25
	1/8	7/8	63637	8,500	25
9	.065	7/8	63633	6,600	25
	3/32	7/8	63638	6,600	25
Depressed centre (type 27/42) – plain arbor hole					
4-1/2	.045	7/8	63172	13,300	25
	3/32	7/8	63231	13,300	25
5	.045	7/8	63173	12,200	25
	3/32	7/8	63233	12,200	25
6	.045	7/8	63174	10,200	25
7	.045	7/8	63175	8,500	25
	3/32	7/8	63235	8,500	25
9	3/32	7/8	63236	6,600	25
Depressed centre (type 27/42) – threaded arbor hole					
4-1/2	.045	5/8-11	63192	13,300	10
	3/32	5/8-11	63237	13,300	10
5	.045	5/8-11	63193	12,200	10
	3/32	5/8-11	63239	12,200	10
6	.045	5/8-11	63194	10,200	10
7	3/32	5/8-11	63241	8,500	10
9	3/32	5/8-11	63242	6,600	10

PFERD products for pipeline construction

POLIFAN® flap discs – Universal Line PSF ★★☆☆



Z PSF STEELOX ★★☆☆

Zirconia alumina flap disc with aggressive stock removal rate and long service life.

Advantages:

- Reduced labour time and increased economic efficiency due to the aggressive stock removal rate.
- Long service life.
- Good option for low-powered angle grinders (< 9 amps).

Workpiece materials:

steel, stainless steel (INOX)

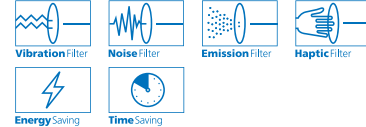
Applications:

surface grinding, weld dressing, blending, chamfering, deburring

Abrasive:

Zirconia alumina Z

PFERDVALUE®:



D [Inches]	H [Inches]	Grit and EDP number				Max. RPM	
		40	60	80	120		
Flat (type 27, PFF) – plain arbor hole							
4-1/2	7/8	62014	62015	62016	-	13,300	10
5	7/8	63011	63012	63013	-	12,200	10
6	7/8	63051	63052	-	-	10,200	10
7	7/8	62024	62025	62026	-	8,500	10
Conical (type 29, PFC) – plain arbor hole							
4-1/2	7/8	62052	62053	62054	62055	13,300	10
5	7/8	63031	63032	63033	63034	12,200	10
6	7/8	63071	63072	-	-	10,200	10
7	7/8	62062	62063	62064	62065	8,500	10
Flat (type 27, PFF) – threaded arbor hole							
4-1/2	5/8-11	62033	62034	62035	-	13,300	10
5	5/8-11	63015	63016	63017	-	12,200	10
6	5/8-11	63056	63057	-	-	10,200	10
7	5/8-11	62043	62044	62045	-	8,500	10
Conical (type 29, PFC) – threaded arbor hole							
4-1/2	5/8-11	62071	62072	62073	62074	13,300	10
5	5/8-11	63035	63036	63037	63038	12,200	10
6	5/8-11	63076	63077	-	-	10,200	10
7	5/8-11	62081	62082	62083	62084	8,500	10





PFERD products for pipeline construction

POLIFAN® flap discs – Universal Line PSF ★★☆☆

Z PSF EXTRA STEELOX ★★☆☆

Zirconia alumina flap disc with aggressive stock removal rate and long service life.

Advantages:

- Reduced labour time and increased economic efficiency due to the aggressive stock removal rate.
- Very long service life due to the high-density flap arrangement.
- Good option for low-powered angle grinders (< 9 amps).

Workpiece materials:

steel, stainless steel (INOX)

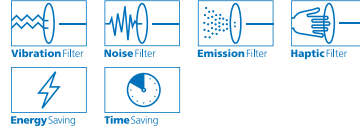
Applications:

surface grinding, weld dressing, blending, chamfering, deburring

Abrasive:

Zirconia alumina Z

PFERDVALUE®:



D [Inches]	H [Inches]	Grit and EDP number					Max. RPM	
		36	40	60	80	120		
Flat (type 27, PFF) – plain arbor hole								
4-1/2	7/8	60457	60458	60460	60461	60462	13,300	10
5	7/8	60464	60465	60467	60468	60469	12,200	10
7	7/8	60478	60479	60481	-	-	8,500	10
Conical (type 29, PFC) – plain arbor hole								
4-1/2	7/8	60625	60626	60628	60629	60630	13,300	10
5	7/8	60632	60633	60635	60636	60637	12,200	10
6	7/8	60639	60640	60642	60643	60644	10,200	10
7	7/8	60646	60647	60649	-	-	8,500	10
Flat (type 27, PFF) – threaded arbor hole								
4-1/2	5/8-11	60485	60486	60488	60489	60490	13,300	10
5	5/8-11	60492	60493	60495	60496	60497	12,200	10
7	5/8-11	60506	60507	60509	-	-	8,500	10
Conical (type 29, PFC) – threaded arbor hole								
4-1/2	5/8-11	60653	60654	60656	60657	60658	13,300	10
5	5/8-11	60660	60661	60663	60664	60665	12,200	10
6	5/8-11	60667	60668	60670	60671	60672	10,200	10
7	5/8-11	60674	60675	60677	-	-	8,500	10



PFERD products for pipeline construction

POLIFAN® flap discs – Performance Line SG ★★★★★



Z SG POWER STEELOX ★★★★★

The POLIFAN® Z SG POWER flap disc features an aggressive stock removal rate and excellent service life to achieve the highest level of efficiency. It is the best conventional flap disc for steel.

Advantages:

- Reduced labour time and maximum economic efficiency due to the aggressive stock removal rate.
- Maintains maximum aggressiveness throughout the entire service life.
- Fewer wheel changes due to the excellent service life.

Workpiece materials:

steel, stainless steel (INOX)

Applications:

weld dressing, blending, chamfering, deburring

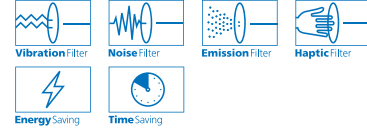
Abrasive:

Zirconia alumina Z

Recommendations for use:

- Also suitable for surface grinding on steel.

PFERDVALUE®:



D [Inches]	H [Inches]	Grit and EDP number					Max. RPM	
		36	40	60	80	120		
Conical (type 29, PFC) – plain arbor hole								
4-1/2	7/8	62191	62222	62223	62220	62259	13,300	10
5	7/8	62192	62225	62226	62261	62263	12,200	10
6	7/8	-	62186	62189	-	-	10,200	10
7	7/8	62193	62228	62229	-	-	8,500	10
Conical (type 29, PFC) – threaded arbor hole								
4-1/2	5/8-11	62194	62322	62323	62324	62275	13,300	10
5	5/8-11	62195	62325	62326	62291	62293	12,200	10
6	5/8-11	-	62286	62289	-	-	10,200	10
7	5/8-11	62196	62328	62329	-	-	8,500	10





PFERD products for pipeline construction

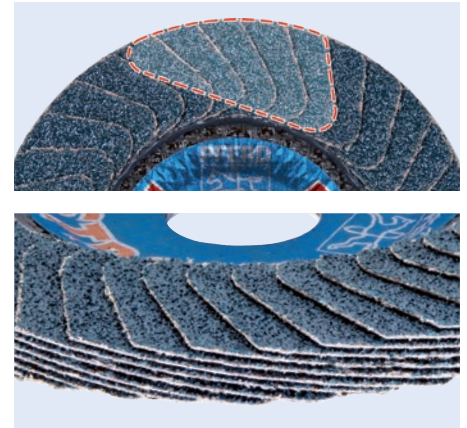
POLIFAN® flap discs – Special Line SGP ★★★★★

POLIFAN®-STRONG STEEL

Users who rely on top performance choose the innovative POLIFAN®-STRONG flap disc. It surpasses conventional flap discs and redefines the highest levels of efficiency. Due to its patented and unique design, it achieves an unsurpassed stock removal rate. It also has an astonishingly long service life over conventional flap discs.

Advantages:

- Fast grinding through constant grinding aggressiveness down to the last abrasive grain.
- Ultimate economic efficiency due to extremely fast stock removal rate.
- Extremely long service life due to patented flap design.



Long, compact arranged flaps

Z SGP STRONG STEEL ★★★★★

Workpiece materials:

steel

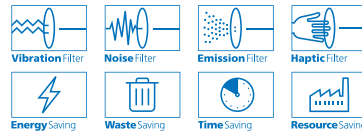
Applications:

weld dressing, chamfering, deburring

Abrasive:

Zirconia alumina Z

PFERDVALUE®:



Recommendations for use:

- Grit size 36 is ideal for high stock removal, e.g. during work on weld seams.
- Grit size 50 is ideal for work on edges, e.g. chamfering or achieving a finer surface finish.

D [Inches]	H [Inches]	Grit and EDP number		Max. RPM	
		36	50		
Conical (type 29, PFC) – plain arbor hole					
4-1/2	7/8	62945	62947	13,300	10
5	7/8	62955	62957	12,200	10
7	7/8	62975	62977	8,500	10
Conical (type 29, PFC) – threaded arbor hole					
4-1/2	5/8-11	62950	62952	13,300	10
5	5/8-11	62960	62962	12,200	10
7	5/8-11	62980	62982	8,500	10



PFERD products for pipeline construction

POLIFAN® flap discs – Special Line SGP ★★★★★



POLIFAN®-CURVE

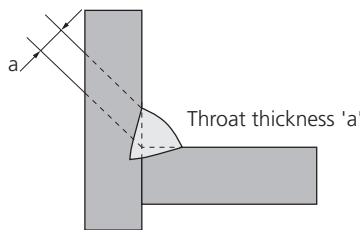
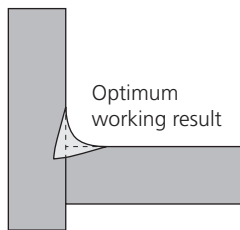
The patented POLIFAN®-CURVE flap disc has been specially developed for work on fillet welds. It is the only flap disc in the world that has flaps on both the grinding side and on the rear side, as well as on the radius.

Advantages:

- Reduced labour time and ultimate economic efficiency due to the extremely aggressive stock removal rate.
- Outstanding service life when working on fillet welds.
- Precise and optimum grinding of the fillet weld geometry.

Recommendations for use:

- Size M (medium): For fillet weld radii $> 3/16''$ or throat thickness $\leq 1/4''$ with 90° joint, width at the radius: $7/16''$ or $9/16''$ with diameter $6''$.
- Size L (large): For fillet weld radii $> 5/16''$ or throat thickness $> 1/4''$ with 90° joint, width at the radius: $9/16''$ or $5/8''$ with diameter $6''$ or $7''$.



Z SGP CURVE STEELOX ★★★★★

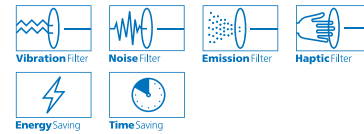
High-performance flap disc for maximum stock removal on steel and stainless steel (INOX).

Workpiece materials:
steel, stainless steel (INOX)

Applications:
fillet weld edge grinding, weld dressing, chamfering, deburring

Abrasive:
Zirconia alumina Z

PFERDVALUE®:



D [Inches]	H [Inches]	Size and EDP number		Grit	Max. RPM	
		Size medium	Size large			
Radial type PFR (CURVE) – plain arbor hole						
4-1/2	7/8	67192	67339	40	13,300	10
5	7/8	67196	67343	40	12,200	10
6	7/8	67200	67347	40	10,200	10
7	7/8	-	67351	40	8,500	10
Radial type PFR (CURVE) – threaded arbor hole						
4-1/2	5/8-11	67212	67359	40	13,300	10
5	5/8-11	67216	67363	40	12,200	10
6	5/8-11	67220	67367	40	10,200	10
7	5/8-11	-	67371	40	8,500	10

CO SGP CURVE STEELOX ★★★★★

High-performance flap disc that achieves a superior surface finish on steel and stainless steel (INOX).

Workpiece materials:

steel, stainless steel (INOX)

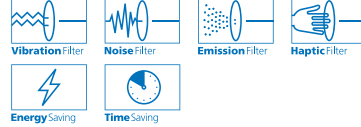
Applications:




fillet weld edge grinding, weld dressing, chamfering, deburring

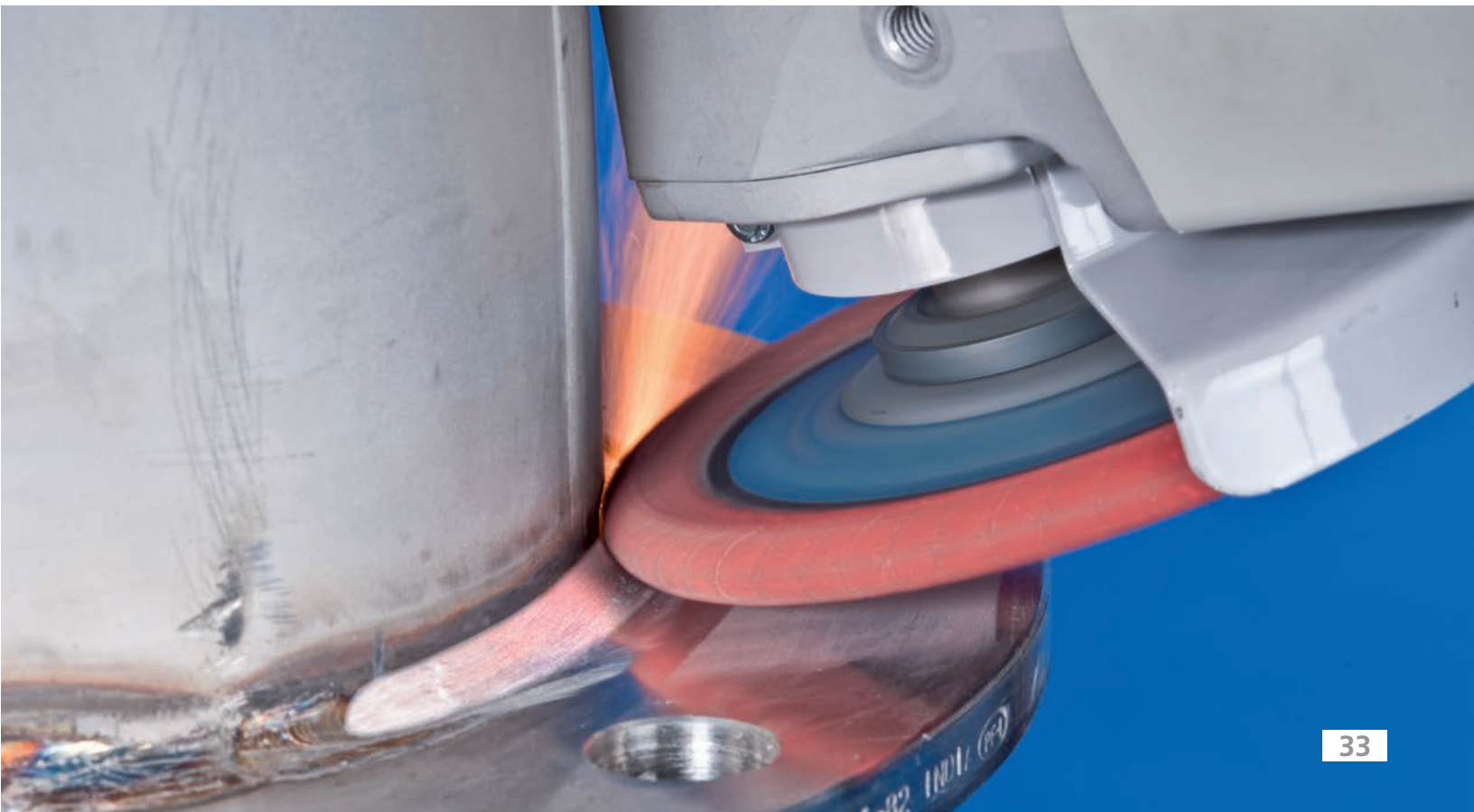
Abrasive:

Ceramic oxide CO with cooling topsizing (COOL)

PFERDVALUE®:



D [Inches]	H [Inches]	Size and EDP number		Grit	Max. RPM	
		Size medium	Size large			
Radial type PFR (CURVE) – plain arbor hole 						
4-1/2	7/8	67234	67381	60	13,300	10
5	7/8	67197	67344	60	12,200	10
Radial type PFR (CURVE) – threaded arbor hole 						
4-1/2	5/8-11	67258	67405	60	13,300	10
5	5/8-11	67217	67364	60	12,200	10



PFERD products for pipeline construction

Power brush safety information

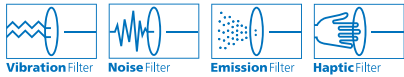


PFERDVALUE® – Your added value with PFERD

Results from the PFERD test laboratories as well as from the product tests by independent testing institutes prove: PFERD tools offer measurable added value.

Discover **PFERDERGONOMICS®** and **PFERDEFFICIENCY®**:

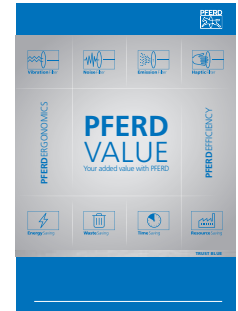
As part of **PFERDERGONOMICS®**, PFERD offers ergonomically optimized products and power tools that contribute to greater safety and working comfort, and thus to health protection.



As part of **PFERDEFFICIENCY®**, PFERD offers innovative, high-performance product solutions and power tools with outstanding added value.



For more information on this topic, please refer to our brochure "**PFERDVALUE® – Your added value with PFERD**".



PFERD – committed to safety

PFERD power brushes are designed, tested, manufactured, and inspected to ensure quality with a particular concern for safety considerations. To promote safety, users must be aware of potential hazards and their responsibilities for safe and proper operation of power brushes.

Warnings, safety requirements, and product limitations and application suggestions are printed in this catalogue and in other literature, marked on brushes (when feasible), and/or supplied on or in the product container.

These warnings and requirements must be observed by all power brush operators. Failure to do so may endanger the brush operator and others in the area of the brushing operation.

Personal protection

In normal power brushing operations, the material being removed, such as burrs, scale, dirt, weld slag, or other residue, will fly off the brush with considerable force along with the brush filaments, which break off due to fatigue.

The potential for serious injury exists for both the brush operator and others in the work area (possibly 50 feet or more from the brush).

To protect against this hazard, operators and others in the area must wear **SAFETY GOGGLES WITH SIDE SHIELDS** or **FULL FACE SHIELDS OVER SAFETY GLASSES WITH SIDE SHIELDS**, along with **PROTECTIVE CLOTHING** such as **GLOVES, MASKS, and PROPER FOOTWEAR**.

Safety requirements summary

- 1. Protective goggles:** Safety goggles or full face shields worn over safety glasses with side shields **MUST BE WORN BY ALL OPERATORS AND OTHERS IN THE AREA OF POWER BRUSH OPERATIONS**. Comply with the requirements of ANSI Z87.1 "Occupational Eye and Face Protection".
- 2. Guards:** Keep all machine guards in place.
- 3. Speeds:** Observe all speed restrictions indicated on the brushes, containers, labels, or printed in pertinent literature. "MSFS" means Maximum Safe Free Speed [RPM] – spinning free with no work applied. For reasons of safety, the "MSFS" should not be exceeded under any circumstances.
- 4. Safety standards:** Comply with the safety standards of the American Brush Manufacturers' Association and the American National Standards Institute standard ANSI B165.1, "Safety Requirements – Power Brushes".

- 5. Protective equipment:** Appropriate protective clothing and equipment must be used where a possibility of injury exists that can be prevented by such clothing or equipment.
- 6. Dust warning:** Use of the products in this catalogue may create dust and other particles. To avoid any risk of adverse health effects, the operator must use appropriate protective measures, including a respirator, during and after operation. Refer to our Safety Data Sheet (SDS) for further information regarding the product to be used. Furthermore, additional health hazards may result from dust in the surrounding environment and from dust generated from the workpiece material. **PROTECTIVE MEASURES FOR THE OPERATOR MUST ADDRESS DUST AND OTHER PARTICULATES ARISING FROM ALL SOURCES**. Always use our products in a well-ventilated workspace.
- 7. California Proposition 65:** PFERD brushes comply with all California Proposition 65 requirements.

Read all safety information and follow all instructions on packaging

You must follow all operator and safety instructions, as well as common safety practices which will reduce the likelihood or severity of physical injury.

Many brush manufacturers mark some safety warnings, recommendations, and usage restrictions directly on the product. It is not always practical to include even the most limited safety information on the brush itself. Therefore, the operator MUST READ and FOLLOW all instructions

supplied in or on the product packaging as well as those marked on the product itself. The operator should also refer to the safety and operating information printed in the brush manufacturer's catalogue and other literature.

Prevent problems due to mechanical failure

Do not allow unsafe conditions to continue. Occasionally, due to worn bearings, a bent spindle, an unusual application, operator abuse or inappropriate use, a brush may fail. A brush which is not received in acceptable condition for trouble-free operation may also fail. Do not use or continue to use a failed brush, or one which is functioning improperly (i.e., throwing filaments, out-of-balance, etc.), as this increases the possibility

for further brush failure and hazard of injury. The cause of the failure should be evaluated and corrected immediately.

Availability of ANSI standards

In this catalogue, reference is made to these ANSI standards: ANSI B-165.1, ANSI Z87.1. Copies of these standards are available at public libraries and from the American Brush Manufacturers' Association, 736 Main Ave., Suite 7, Durango, CO 81301, Tel: (720) 392-ABMA (2262), Fax: (866) 837-8450, email: info@ABMA.org; or American National Standards Institute, Inc. (ANSI), 1900 Arch Street, Philadelphia, PA 19103 (B165.1 only).

Safety recommendations

-  = Wear protective goggles!
-  = Wear dust respirator!
-  = Wear protective gloves!
-  = Observe safety recommendations!
-  = Read the Safety Data Sheets (SDS) before using any materials! (pferdusa.com).

ANSI standard B165.1 arbor holes

ANSI standard B165.1-2013 dictates maximum face widths and minimum arbor hole sizes allowable. All brushes listed in this catalogue conform to all ANSI standards. If you require a brush that does not conform to these standards, please contact your distributor for assistance.

Note:

The maximum face width listed in this table refers to shafts that are supported by one end only, such as angle and bench grinders. It does not apply to shafts that are supported by bearings at both ends.

Wheel diameter [Inches]	Minimum arbor hole [Inches]	Maximum face width [Inches]
2	1/4	3/4
3	1/4	3/4
4	3/8	1
6	1/2	1-1/4
8	5/8	1-1/4
10	3/4	2
12	1	3
14	1-1/4	3
15	2	3
16	2	3



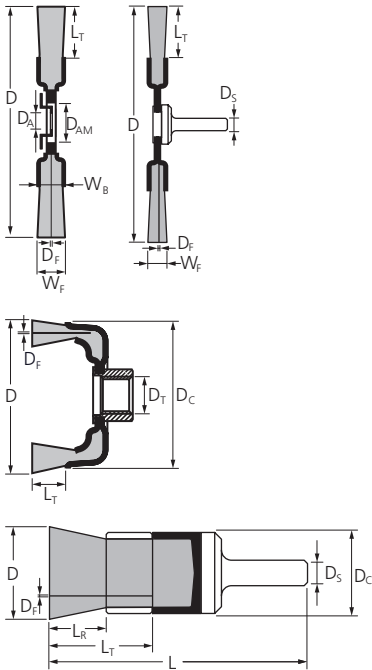
Warning!

Failure to observe safety precautions may result in injury.



PFERD products for pipeline construction

Power brush dimensions



Explanation of dimensions

Abbreviation	Unit	Description
D	Inches	Nominal outer diameter/width of the brush, the working surface for end brushes
D _A	Inches	Arbor hole diameters with adapters
D _{AM}	Inches	Maximum brush arbor hole diameter without adapters
D _C	Inches	Cup diameter, for stem mounted end brushes
D _F	Inches	Nominal diameter/thickness of the filament material
D _S	Inches	Shank diameter
D _T	Inches	Thread size
L _S	Inches	Total length of the mounting shank
L _T	Inches	Trim length of the filament material, including bridled filament
L _R	Inches	Total exposed length of the filament material (free length without bridle)
W _A	Inches	Width of the main body at width of brush at arbor hole/thread
W _B	Inches	"Width on arbor", mounting width, widest point of the main body
W _F	Inches	"Face width", nominal dimensions of the working contact width

Conversion table [Inches – mm – gauge]

Brush diameter		Arbor hole diameter		Face width		Wire diameter		
D [Inches]	D [mm]	D _A [Inches]	D _A [mm]	W _F [Inches]	W _F [mm]	D _F [Inches]	D _F [mm]	D _F wire gauge
2-3/4	70	1/4	6.4	1/8	3	.004	0.10	50
3	75	3/8	9.5	1/4	6	.006	0.15	43
3-1/2	90	1/2	12.7	3/8	10	.008	0.20	38
4	100	5/8	15.9	1/2	12	.010	0.25	34
5	125	3/4	19.0	5/8	16	.012	0.30	33
6	150	7/8	22.2	3/4	19	.014	0.35	30
7	178	1	25.4	7/8	22	.016	0.40	28
8	200	1-1/8	28.6	1	25	.018	0.45	26
10	250	1-1/4	31.8	1-1/8	29	.020	0.50	25
12	300	1-1/2	38.1	1-1/4	32	.023	0.60	24
14	350	1-3/4	44.5	1-1/2	38	.026	0.65	23
15	380	2	50.8	2	50	.032	0.80	21
16	400	3	76.2	3	75	.035	0.90	20
						.040	1.01	19

Determining the recommended speed

- 1 Select brush type.
- 2 Read recommended peripheral speed.
- 3 Determine the speed using the brush diameter and peripheral speed.

1 Brush type	Peripheral speed 2
End brushes	2,500–4,000 SFPM
Cup brushes	8,000–10,000 SFPM
Wheel brushes / bevel cup brushes	see chart below

Key to the colour bars on the chart below:

Carbon steel wire	– grey
Stainless steel wire (INOX)	– blue
Brass/bronze wire	– yellow
M-BRAD® abrasive filament	– red

3 Recommended peripheral speeds for brushing applications

Application	Surface feet per minute [SFPM]										
	1,250	2,000	2,750	3,500	4,250	5,000	5,750	6,500	7,250	8,000	8,750
Burr removal/ edge blending	3,500–7,250 SFPM										
	2,000–5,750 SFPM										
	2,000–5,750 SFPM										
	1,250–5,400 SFPM										
Scale removal	5,000–9,500 SFPM										
	3,500–7,250 SFPM										
Surface conditioning	1,250–4,250 SFPM										
	1,250–3,500 SFPM										
	1,250–3,500 SFPM										
	2,000–5,750 SFPM										
Weld cleaning	5,000–9,500 SFPM										
	3,500–7,250 SFPM										

3 Peripheral speeds in surface feet per minute [SFPM]

RPM	Brush diameter [Inches]									
	2	3	4	5	6	8	10	12	14	15
800	400	600	800	1,000	1,250	1,650	2,050	2,500	2,900	3,100
1,150	600	900	1,200	1,500	1,800	2,400	3,000	3,600	4,200	4,500
1,200	600	900	1,250	1,550	1,850	2,500	3,100	3,750	4,350	4,700
1,750	900	1,350	1,800	2,250	2,700	3,650	4,550	5,450	6,400	6,850
2,000	1,000	1,550	2,050	2,600	3,100	4,150	5,200	6,250	7,300	7,850
2,400	1,250	1,850	2,500	3,100	3,750	5,000	6,250	7,500	8,750	9,400
3,000	1,550	2,350	3,100	3,900	4,700	6,250	7,850	9,400	10,950	11,750
3,450	1,800	2,700	3,600	4,500	5,400	7,200	9,000	10,800	12,600	13,500
3,750	1,950	2,900	3,900	4,900	5,850	7,850	9,800	11,750		
4,000	2,050	3,100	4,150	5,200	6,250	8,350	10,450	12,550		
4,500	2,350	3,500	4,700	5,850	7,050	9,400	11,750	14,100		
5,000	2,600	3,900	5,200	6,500	7,850	10,450	13,050			
5,400	2,800	4,200	5,650	7,050	8,450	11,300				
6,000	3,100	4,700	6,250	7,850	9,400					
8,500	4,400	6,650	8,850	11,100						
9,000	4,700	7,050	9,400	11,750						
10,000	5,200	7,850	10,450	13,050						
12,000	6,250	9,400	12,550	15,700						
15,000	7,850	11,750	15,700	19,600						
18,000	9,400	14,100	18,800							
20,000	10,450	15,700	16,400							

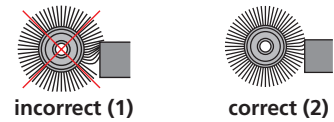
Example:

Crimped wire wheel, 6" diameter
burr removal
Peripheral speed: 5,400 SFPM
Rotational speed: 3,450 RPM

$$\text{SFPM} = \frac{\pi \times \text{Diameter [Inches]} \times \text{RPM}}{12}$$

Recommendations for use

Brushing pressure and work position



When working with wire brushes, only use the filament tips (Fig. 2).

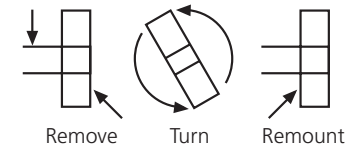
Wire brushes work when the tips of the filament come into contact with the workpiece. The tips are the only sharp point on the filament. Avoid applying excessive pressure. Excessive pressure causes overbending of the filaments and heat build-up resulting in filament breakage, rapid dulling, and reduced brush life.

Apply work to brush, or vice versa, in such a way that as much of the brush face as possible is in full contact with the workpiece. Applying the work to the side or edge of the brush will result in wire breakage and reduce brush life.

Self-sharpening effect

The self-sharpening effect can be improved by changing the brush operating direction.

Spindle

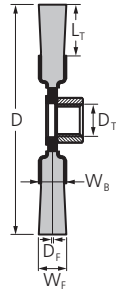


Solutions to common problems

Problem	Solution
Inadequate brushing action	<ul style="list-style-type: none"> ■ Increase RPM or use larger brush diameter at same RPM. ■ Use a brush with shorter trim, or with thicker filaments.
Excessively strong brushing action	<ul style="list-style-type: none"> ■ Reduce RPM or use a smaller brush diameter at same RPM. ■ Reduce contact pressure. ■ Use a brush with longer trim or thinner filaments.
Surface is too rough and irregular	<ul style="list-style-type: none"> ■ Use a wider brush or a longer trim length. ■ Select a brush with thinner filaments. ■ Increase RPM.
Excessively fine finish/surface appears too polished	<ul style="list-style-type: none"> ■ Select a brush with thicker filaments. ■ Use a brush with shorter trim. ■ Reduce RPM.
Secondary burr formation	<ul style="list-style-type: none"> ■ Change brush-to-workpiece operating angle. ■ Use a brush with shorter trim or thicker filaments.

PFERD products for pipeline construction

Threaded knot wheel brushes



Stringer bead twist


Most aggressive brushing action, perfect for heavy-duty brushing in pipeline and container construction.

Advantages:

- Narrow face width enables optimal access to hard-to-reach areas such as root weld seams.

Recommendations for use:

- For use on right angle grinders.

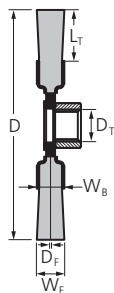
D [Inches]	D _T [Inches]	Knots [pcs.]	L _T [Inches]	W _F [Inches]	D _F [Inches] and EDP number	Opt. RPM	Max. RPM	
.020								

Carbon steel wire

4	5/8-11	32	3/4	3/16	82186P	10,000–15,000	20,000	10/5
	1/2-13	32	3/4	3/16	82187P	10,000–15,000	20,000	10/5
4-1/2	5/8-11	32	1	3/16	82194P	10,000–15,000	20,000	10/5
4-7/8	5/8-11	38	3/4	3/16	82479	7,500–15,000	15,000	10
		48	3/4	3/16	82483P	7,500–15,000	15,000	10/5
6	5/8-11	40	1-1/8	3/16	82486	6,000–12,500	12,500	10
		48	1-1/8	3/16	82487P	6,000–12,500	12,500	10/5
		56	1-1/8	3/16	82488P	6,000–12,500	12,500	10/5
6-7/8	5/8-11	56	1-1/8	3/16	82494	4,500–9,000	9,000	10
		76	1-1/8	3/16	82495	4,500–9,000	9,000	10

Stainless steel wire (INOX)

4	5/8-11	32	3/4	3/16	82307P	8,000–15,000	20,000	10/5
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Stringer bead twist, COMBITWIST®

Most aggressive brushing action, perfect for heavy-duty brushing in pipeline and container construction.

Advantages:


- Narrow face width enables optimal access to hard-to-reach areas such as root weld seams.
- COMBITWIST® knot construction results in improved balance, reduced vibration, extended service life and increased aggressiveness.

Recommendations for use:

- For use on right angle grinders.

PFERDVALUE®:



D [Inches]	D _T [Inches]	Knots [pcs.]	L _T [Inches]	W _F [Inches]	D _F [Inches] and EDP number	Opt. RPM	Max. RPM	
.020								

Carbon steel wire

4	5/8-11	32	3/4	3/16	82391	10,000–15,000	20,000	10
4-1/2	5/8-11	32	1	3/16	82392P	10,000–15,000	20,000	10/5
4-7/8	5/8-11	48	3/4	3/16	82689	7,500–15,000	15,000	10
6	5/8-11	56	1-1/8	3/16	82694	6,000–12,500	12,500	10
6-7/8	5/8-11	56	1-1/8	3/16	82700	4,500–9,000	9,000	10

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TWIN-NUT, stringer bead twist

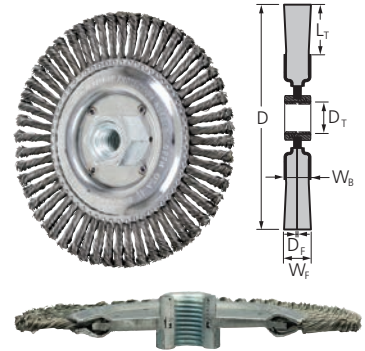
Most aggressive brushing action, perfect for heavy-duty brushing in pipeline and container construction. Patented nut design (US patent no. 8425282) prevents brush from interfering with guard.


Advantages:

- Narrow face width enables optimal access to hard-to-reach areas such as root weld seams.
- TWIN-NUT reversible mounting greatly extends performance and service life.

Recommendations for use:

- For use on right angle grinders.



D [Inches]	D _T [Inches]	Knots [pcs.]	L _T [Inches]	W _F [Inches]	D _F [Inches] and EDP number	Opt. RPM	Max. RPM	
.020								
Carbon steel wire								
6	5/8-11	48	1-1/8	3/16	88028	6,000–12,500	12,500	5
		56	1-1/8	3/16	88029	6,000–12,500	12,500	5
6-7/8	5/8-11	56	1-1/8	3/16	88032	4,500–9,000	9,000	5

TWIN-NUT, stringer bead twist COMBITWIST®

Most aggressive brushing action, perfect for heavy-duty brushing in pipeline and container construction. Patented nut design prevents brush from interfering with guard.

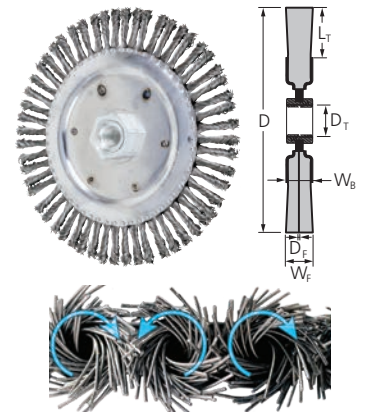
Advantages:


- Narrow face width enables optimal access to hard-to-reach areas such as root weld seams.
- TWIN-NUT reversible mounting greatly extends performance and service life.
- COMBITWIST® knot construction results in improved balance, reduced vibration, and extended service life.

Recommendations for use:

- For use on right angle grinders.

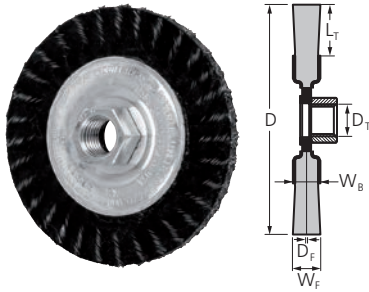
PFERDVALUE®:



D [Inches]	D _T [Inches]	Knots [pcs.]	L _T [Inches]	W _F [Inches]	D _F [Inches] and EDP number	Opt. RPM	Max. RPM	
.020								
Carbon steel wire								
4-7/8	5/8-11	48	3/4	3/16	88049	5,000–12,500	12,500	5
6	5/8-11	56	1-1/8	3/16	88050	6,000–12,500	12,500	5
6-7/8	5/8-11	56	1-1/8	3/16	88052	4,500–9,000	9,000	5

PFERD products for pipeline construction

Threaded knot wheel brushes



Stringer bead twist, ECAP® encapsulated


Extremely aggressive brushing action, perfect for heavy-duty brushing in pipeline and container construction.

Advantages:

- Narrow face width enables optimal access to hard-to-reach areas such as root weld seams.
- ECAP® elastomer eliminates flare for precision control of brush contact area.
- Extremely aggressive brushing.
- Encapsulation prevents long wire breakage, contributing to workplace safety.

Recommendations for use:

- For use on right angle grinders.
- E4 is good for higher pressure applications. Black colour.
- E5 is for super-aggressive, tough cleaning, for most severe applications. Blue colour.

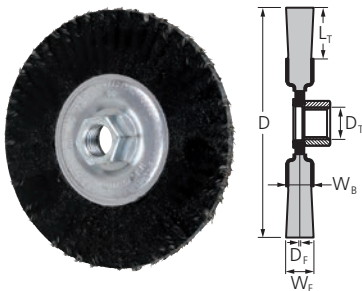
D [Inches]	D _T [Inches]	L _T [Inches]	W _F [Inches]	ECAP® grade	D _F [Inches] and EDP number		Opt. RPM	Max. RPM	
					.014	.020			

Carbon steel wire (crimped)

6	5/8-11	1-1/16	3/16	E4	83507	-	4,500–9,000	9,000	10
7	5/8-11	1-9/16	3/16	E4	83509	-	4,500–9,000	9,000	10
				E5	83517	-	4,500–9,000	9,000	10

Carbon steel wire (knot)

4	5/8-11	7/8	3/16	E4	-	83511	10,000–15,000	20,000	10
6-7/8	5/8-11	1-9/16	3/16	E4	-	83513	4,500–9,000	9,000	10



J-BEVEL, stringer bead twist, ECAP® encapsulated


Extremely aggressive brushing action, designed for heavy-duty brushing on welds created by automatic welding equipment.

Advantages:

- Narrow face width enables optimal access to hard-to-reach areas such as root weld seams.
- ECAP® elastomer eliminates flare for precision control of brush contact area.
- Extremely aggressive brushing.
- Encapsulation prevents long wire breakage, contributing to workplace safety.

Recommendations for use:

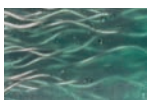
- For use on right angle grinders.
- E4 is good for higher pressure applications. Black colour.

D [Inches]	D _T [Inches]	L _T [Inches]	W _F [Inches]	ECAP® grade	D _F [Inches] and EDP number		Opt. RPM	Max. RPM	
					.014				

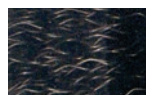
Carbon steel wire

5	5/8-11	1-1/4	3/16	E4	83515		7,500–15,000	15,000	5
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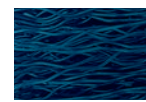
Wire is bonded in a synthetic elastomer material which firmly supports the wire filaments, providing precisely controlled brush face, longer brush life and very aggressive removal rates. Limited flexibility. ECAP® brushes are available in three hardness grades:



E3 is aggressive enough for most applications. Best grade for general use. Green colour.



E4 is good for higher pressure applications. Black colour.



E5 is for super-aggressive, tough cleaning, for most severe applications. Blue colour.

Full cable twist

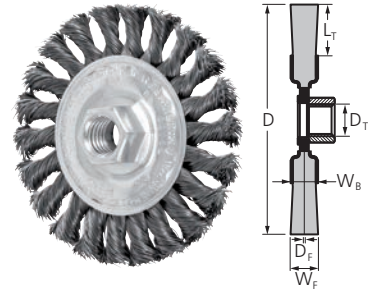
These brushes feature tightly twisted knots for low flex, high impact brushing action. Full cable twist is ideal for tough brushing applications. For weld cleaning, weld spatter removal, scale removal, cleaning, deburring, and flash removal.


Advantages:

- Tightly-twisted knots result in very aggressive brushing action.

Recommendations for use:

- For use on right angle grinders.



D [Inches]	D _T [Inches]	Knots [pcs.]	L _T [Inches]	W _F [Inches]	D _F [Inches] and EDP number				Opt. RPM	Max. RPM	
					.014	.016	.020	.023			

Carbon steel wire

4	5/8-11	22	3/4	1/2	82165P	-	82166P	-	10,000–15,000	20,000	10/5
	1/2-13	22	3/4	1/2	-	-	82168	-	10,000–15,000	20,000	10
	3/8-24	22	3/4	1/2	-	-	82170	-	10,000–15,000	20,000	10
5	5/8-11	24	3/4	1/2	-	-	-	82474P	7,500–15,000	15,000	10/5
6	5/8-11	24	1-1/4	1/2	-	-	-	82477P	5,000–10,000	10,000	10/5
		30	1-1/4	1/2	-	82476P*	-	82478P	5,000–10,000	10,000	10/5

Stainless steel wire (INOX)

4	5/8-11	22	3/4	1/2	82295P	-	82296	-	8,000–15,000	20,000	10/5
5	5/8-11	24	3/4	1/2	-	-	-	82599	6,000–15,000	15,000	10
6	5/8-11	24	1-1/4	1/2	-	-	-	82602	4,000–10,000	10,000	10
		30	1-1/4	1/2	-	-	-	82603	4,000–10,000	10,000	10

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*EDPs listed in all blue are **only** available in POP packaging.

Full cable twist, COMBITWIST®

These brushes feature tightly twisted knots for low flex, high impact brushing action. Full cable twist is ideal for tough brushing applications. For weld cleaning, weld spatter removal, scale removal, cleaning, deburring, and flash removal.

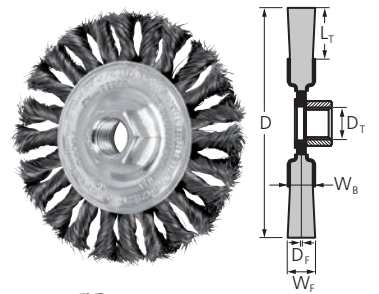
Advantages:


- Tightly-twisted knots result in very aggressive brushing action.
- COMBITWIST® knot construction results in improved balance, reduced vibration, extended service life and increased aggressiveness.

Recommendations for use:

- For use on right angle grinders.

PFERDVALUE®:



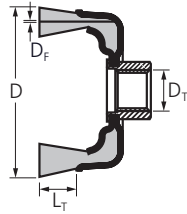
D [Inches]	D _T [Inches]	Knots [pcs.]	L _T [Inches]	W _F [Inches]	D _F [Inches] and EDP number			Opt. RPM	Max. RPM	
					.014	.020	.023			

Carbon steel wire

4	5/8-11	22	3/4	1/2	82387	82388	-	10,000–15,000	20,000	10
5	5/8-11	24	3/4	1/2	-	-	82684	7,500–15,000	15,000	10
6	5/8-11	30	1-1/4	1/2	-	-	82688	5,000–10,000	10,000	10

PFERD products for pipeline construction

Knot cup brushes



External nut, single row, standard twist


This brush features knots that are twisted approximately 75% of the trim length. The loosely-twisted knots cover a larger surface area and are ideal for heavy-duty cleaning and surface conditioning on uneven surfaces. For weld cleaning, weld spatter removal, cleaning, deburring, and flash removal.

Advantages:

- Loosely-twisted knots cover a large surface area.
- Good balance between aggressiveness and flexibility.

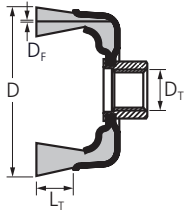
Recommendations for use:

- For use on right angle grinders.

D [Inches]	D _T [Inches]	Knots [pcs.]	L _T [Inches]	D _F [Inches] and EDP number			Opt. RPM	Max. RPM	
				.014	.023	.035			

Carbon steel wire

4	5/8-11	24	1-1/4	82522P	82523P	82524	4,500–9,000	9,000	1/2
5	5/8-11	30	1-3/8	-	82529	-	3,500–7,000	7,000	1
6	5/8-11	36	1-1/2	82530	82531	82532	3,000–6,000	6,000	1



External nut, standard twist COMBITWIST®

This brush features knots that are twisted approximately 75% of the trim length. The loosely-twisted knots cover a larger surface area and are ideal for heavy-duty cleaning and surface conditioning on uneven surfaces. For weld cleaning, weld spatter removal, scale removal, cleaning, deburring, and flash removal.

Advantages:


- Loosely-twisted knots cover a large surface area.
- Good balance between aggressiveness and flexibility.
- COMBITWIST® knot construction results in improved balance, reduced vibration, and extended service life.

Recommendations for use

- Choose double-row for the most severe applications.
- For use on right angle grinders.

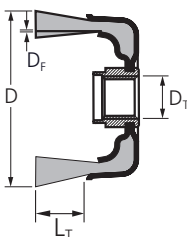
PFERDVALUE®:



D [Inches]	D _T [Inches]	Knots [pcs.]	L _T [Inches]	D _F [Inches] and EDP number		Opt. RPM	Max. RPM	
				.023	.035			

Carbon steel wire, double row

4	5/8-11	48	1-3/8	82553	-	3,500–7,000	7,000	1
6	5/8-11	66	1-1/2	82557	82558	3,000–6,000	6,000	1



Internal nut, single row, standard twist

This brush features knots that are twisted approximately 75% of the trim length. The loosely-twisted knots cover a larger surface area and are ideal for heavy-duty cleaning and surface conditioning on uneven surfaces. For weld cleaning, weld spatter removal, scale removal, cleaning, deburring, and flash removal.


Advantages:

- Loosely-twisted knots cover a large surface area.
- Good balance between aggressiveness and flexibility.

- Internal nut results in reduced operator fatigue and improved control.

Recommendations for use:

- For use on right angle grinders.

D [Inches]	D _T [Inches]	Knots [pcs.]	L _T [Inches]	D _F [Inches] and EDP number		Opt. RPM	Max. RPM	
				.014	.023			

Carbon steel wire

6	5/8-11	36	1-5/8	82545P	82546P	3,000–6,000	6,000	1/2
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Brushes available in POP packaging are marked with a "P" in this catalogue. To order brushes in POP versions, please add a "P" to the end of the EDP number. The box quantity of POP items is printed in "blue" accordingly.

Internal nut, double row, full cable twist

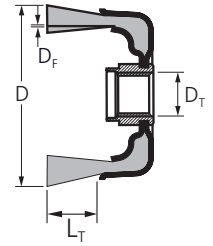
These brushes feature tightly twisted knots for low flex, high impact brushing action. Full cable twist is ideal for tough brushing applications. For weld cleaning, weld spatter removal, scale removal, cleaning, deburring, and flash removal.


Advantages:

- Tightly-twisted knots result in very aggressive brushing action.
- Internal nut results in reduced operator fatigue and improved control.

Recommendations for use:

- For use on right angle grinders.



D [Inches]	D _T [Inches]	Knots [pcs.]	L _T [Inches]	D _F [Inches] and EDP number		Opt. RPM	Max. RPM	
				.023				
Carbon steel wire								
6	5/8-11	66	1-1/2	82574		3,000–6,000	6,000	1

Crimped cup brushes

External nut

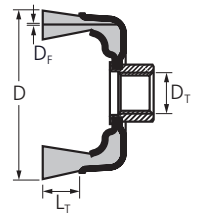
Ideal for brushing uneven surfaces. Used for light to medium duty brushing action such as removal of light scale, dirt, rust, corrosion and light burrs.


Advantages:

- Highly flexible, enabling optimal adjustment to workpiece contours.

Recommendations for use:

- For use on right angle grinders.



D [Inches]	D _T [Inches]	L _T [Inches]	D _F [Inches] and EDP number		Opt. RPM	Max. RPM	
			.014	.020			
Carbon steel wire							
4	5/8-11	1-1/4	82510 P	82511 P	4,500–9,000	9,000	1/2
5	5/8-11	1-1/4	82514	82515 P	4,000–8,000	8,000	1/2
6	5/8-11	1-3/8	82516 P	82517 P	3,000–6,000	6,000	1/2

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External nut, ECAP® encapsulated

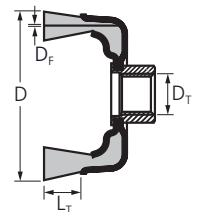
Extremely aggressive brushing action, best suited for brushing large surfaces. Ideal for removing weld slag and scale in pipeline applications.


Advantages:

- ECAP® elastomer eliminates flare for precision control of brush contact area.
- Extremely aggressive brushing.
- Encapsulation prevents long wire breakage, contributing to workplace safety.

Recommendations for use:

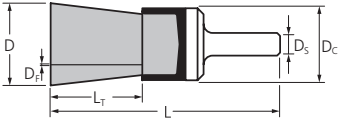
- For use on right angle grinders.
- E4 is good for higher pressure applications. Black colour.



D [Inches]	D _T [Inches]	L _T [Inches]	ECAP® grade	D _F [Inches] and EDP number		Opt. RPM	Max. RPM	
				.020				
Carbon steel wire								
4	5/8-11	1-1/8	E4	83570		3,500–7,000	7,000	1
6	5/8-11	1-1/4	E4	83571		3,000–6,000	6,000	1

PFERD products for pipeline construction

Stem mounted end brushes



Knot, flared cup


These brushes feature tightly twisted knots for low flex, high impact brushing action. Ideal for tough brushing applications. For weld cleaning, weld spatter removal, scale removal, cleaning, deburring, and flash removal.

Advantages:

- Tightly-twisted knots result in very aggressive brushing action.
- Easily-controlled flare of knots makes this brush ideal for cleaning pipe and tube internal diameters.

Recommendations for use:

- Designed for use on straight grinders.

D [Inches]	D _c [Inches]	D _s [Inches]	L _r [Inches]	No. knots [pcs]	D _f [Inches] and EDP number			Opt. RPM	Max. RPM	
					.010	.014	.020			
Carbon steel wire										
1	1-1/8	1/4	1	12	83078	83079P	83080P	10,000–15,000	20,000	10/5
			1-3/8	12	80187	-	-	8,000–12,000	15,000	10

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Economy line

Economy scratch brushes for maintenance applications. For removal of rust, paint, scale, and debris.

Advantages:

- Value-priced brushes.

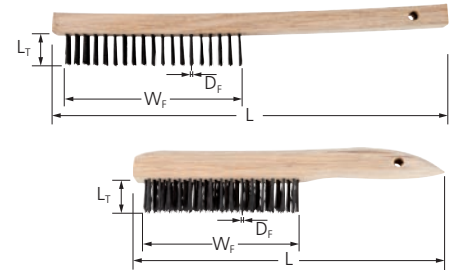
Wire rows	W_F [Inches]	Block size L x W [Inches]	L_T [Inches]	D_F [Inches], filament material, and EDP number		
				.012 carbon steel		

Curved handle

3 x 19	6	13-3/4 x 7/8	1-3/16	85045		12
4 x 18	6	13-3/4 x 1	1-3/16	85048		12

Shoe handle

4 x 16	5	10 x 1	1-3/16	85051		12
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V-Groove

Pointed brush face designed for full brushing contact in tight areas such as grooves and corners.

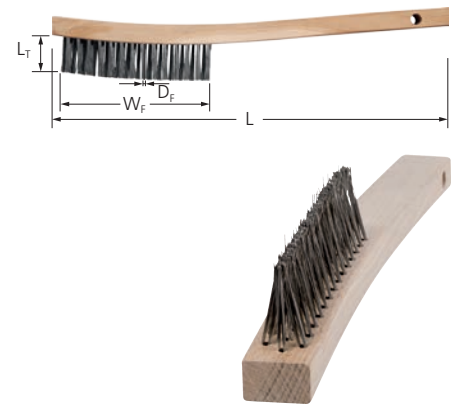
Advantages:

- Kiln-dried hardwood block keeps tufts firmly in place
- Ideal for cleaning fillet welds due to specially-angled wire filament.

Wire rows	W_F [Inches]	Block size L x W [Inches]	L_T [Inches]	D_F [Inches], filament material, and EDP number		
				.012 carbon steel	.012 stainless steel	
3 x 14	5-1/4	13-3/4 x 1-1/8	1-1/2	85010	85011	12

Curved handle

3 x 14	5-1/4	13-3/4 x 1-1/8	1-1/2	85010	85011	12
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Standard

Sturdy wooden block brushes for heavy cleaning applications.

Advantages:

- Excellent for cleaning concrete forms.
- Heavy-gauge wire for aggressive removal.
- Curved back version provides ergonomic grip for improved comfort.

Wire rows	W_F [Inches]	L [Inches]	L_T [Inches]	D_F [Inches], filament material, and EDP number		
				.012 carbon steel		
5 x 10	4-1/2	1-1/2	1-3/16	85081		12
6 x 19	7-1/4	2-1/4	1-3/4	85082		12

Straight back

5 x 10	4-1/2	1-1/2	1-3/16	85081		12
6 x 19	7-1/4	2-1/4	1-3/4	85082		12



PFERD products for pipeline construction

Dauber, chip, and fender brushes




Pipeline dauber brush

Oval-head tampico brushes for hand-applying pipe coatings.

Advantages:

- High retention improves productivity.

Brush length x width [Inches]	L [Inches]	L _T [Inches]	Filament material and EDP number	
			tampico filament	
Wooden block				
3-1/2 x 5	17	2-1/4	85100	12




Chip brushes

High volume, cost-effective brushes feature natural fiber for painting, gluing, and other coating applications.

Advantages:

- White filament clearly visible on dark coatings for easy inspection.

D [Inches]	W _F [Inches]	L _T [Inches]	Filament material and EDP number	
			white bristle	
Standard thickness				
2	3/8	1-1/2	89698	24
4	3/8	1-1/2	89701	12
Double thick				
4	11/16	2	89702	12




Fender brushes

Comfort-grip handle brushes set in plastic block. For general purpose scrubbing and cleaning.

Advantages:

- Ergonomic handle for improved comfort.

L _T [Inches]	W _F [Inches]	Block type	Filament material	EDP number	
Long handle					
21-1/2	2	plastic	synthetic	89439	12





PFERD products for pipeline construction

Street brooms, handles, and paint rollers

Street brooms

For most demanding sweeping applications.

Advantages:

- Stiff filament with long trim for sweeping very rough surfaces and debris.
- Can be used for texturing concrete.

Description	L [Inches]	L ₁ [Inches]	EDP number	
Bass/palmyra mix Heavy-duty street broom. Sanded hardwood. Bass/palmyra mix for wet or dry sweeping of barns, streets, highway work, etc.	16	6-1/4	89345	12
Safety orange polypropylene fill Heavy-duty street broom. Sanded hardwood. Heavy-gauge orange plastic will not absorb mold, mildew, or water. Safety orange colour perfect for high visibility use.	16	5	89353	6



Wood handles

Wooden handles made of smooth, lacquered hardwood. Handle features 3/4" standard acme threaded tips.

Advantages:

- Easily attach to push brooms.

L [ft]	D [Inches]	EDP number	
4-1/2	1-1/8	89897	12



Economy roller cage

For use with economy roller refills.

Advantages:

- Value-priced roller cage.

L [Inches]	D [Inches]	EDP number	
9	1-1/2	89772	10



Lint-free roller refills

For use with semi-gloss and high-gloss paints on smooth surfaces.

Advantages:

- Shed-resistant roller will not contaminate surface finish on smooth surfaces.

L [Inches]	L ₁ [Inches]	EDP number	
9	1/4	89796	25





Subject to technical modifications. 04/2019

Printed in U.S.A. 818 107



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