

TOOL MANUAL 23 at-a-glance



TRUST BLUE

Our latest innovations in metalworking










In this brochure, you will find new products and product line extensions that were released with TOOL MANUAL 23.



TOOL MANUAL 23

AT-A-GLANCE



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Skin packed, 3-pack sleeve



PFERD chain saw files are available in convenient 3-piece plastic sleeves. The package helps keep file edges protected during storage and transit to ensure top file performance during use.

Advantages:

- The opening on the front of the packaging makes it easier to remove the files and return them when not in use.
- **Classic line:** Optimum combination of service life and stock removal rate, aggressive filing for quick sharpening.

Ordering notes:

- One packaging unit contains four plastic packs, each containing three files.

Length [Inches]	Diameter [Inches]	Chain pitch [Inches]	Line and EDP number	
			Classic line 	

POP packaging

8	1/8	1/4 LP*	17129	12
	13/64	3/8	17133	12

Always observe the current guidelines and recommendations of the equipment and saw chain manufacturers. * LP = Low Profile

CHAIN SHARP



CHAIN SHARP CS-X chain saw sharpeners

The CHAIN SHARP CS-X chain saw sharpener stands out due to its excellent file position, ergonomic shape and easier operation. The device provides a sharpening angle of 30°. The defined depth gauge distance can be found in the table.

Contents:

The chain saw sharpener consists of:

- One sharpener
- One depth gauge file
- Two Classic line chain saw files

Advantages:


- Turn the device over to change from the right to the left tooth – no conversion work required.
- Optimized shape for precise guidance and optimal sharpening results.
- Improved design makes it easy to replace the files.
- Simultaneously sharpens the saw teeth and adjusts the depth gauge.

Ordering notes:

- The sharpener is supplied with detailed operating instructions in a transparent, reusable plastic pouch which protects against damage and dirt.

PFERDVALUE®:



Chain saw file dia. [Inches]	Chain pitch [Inches]	Depth gauge distance [Inches]	EDP number	Replacement depth gauge file EDP	Replacement round file EDP	
1/8	1/4 LP*	0.018	17299	17310	17129	1

* LP = Low Profile

CHAIN SHARP CS-MT chain saw sharpeners

The compact CHAIN SHARP CS-MT (MultiTool) sharpening solution combines a chain saw file and a depth gauge file in one ergonomic tool. The defined height of the chain saw file makes sharpening saw teeth easier and prevents the connecting links of the chain from being damaged. The side-mounted depth gauge file allows you to set the depth limit as desired. The gauge provided gives depth spacings of .025" for harder wood or .030" for softer wood.



Contents:

The chain saw sharpener consists of:

- One sharpener
- One Classic line chain saw file
- One depth limit file
- One ergonomic file handle
- One depth gauge

Advantages:


- Compact sharpener.
- Depth gauge can be individually adjusted.
- Recommended for all common chain saw files.
- Long service life with PFERD files.

Ordering notes:

- Available in four designs for the most common chain pitches.
- The sharpener is supplied with detailed operating instructions in a belt pouch which protects against damage and dirt.

PFERDVALUE®:



Chain saw file dia. [Inches]	Chain pitch [Inches]	Depth gauge distance [Inches]	EDP number	Replacement depth gauge file EDP	
5/32	3/8 LP*	0.025	17250	17043	1
3/16	.325	0.025	17251	17043	1
13/64	3/8	0.025	17252	17043	1
7/32	.404	0.025	17253	17043	1

POP packaging

* LP = Low Profile





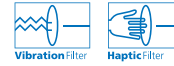
Adjustable holders for car body files

This ergonomic and particularly lightweight holder permits precise tensioning of car body file blades to match the surface contour of the workpiece.

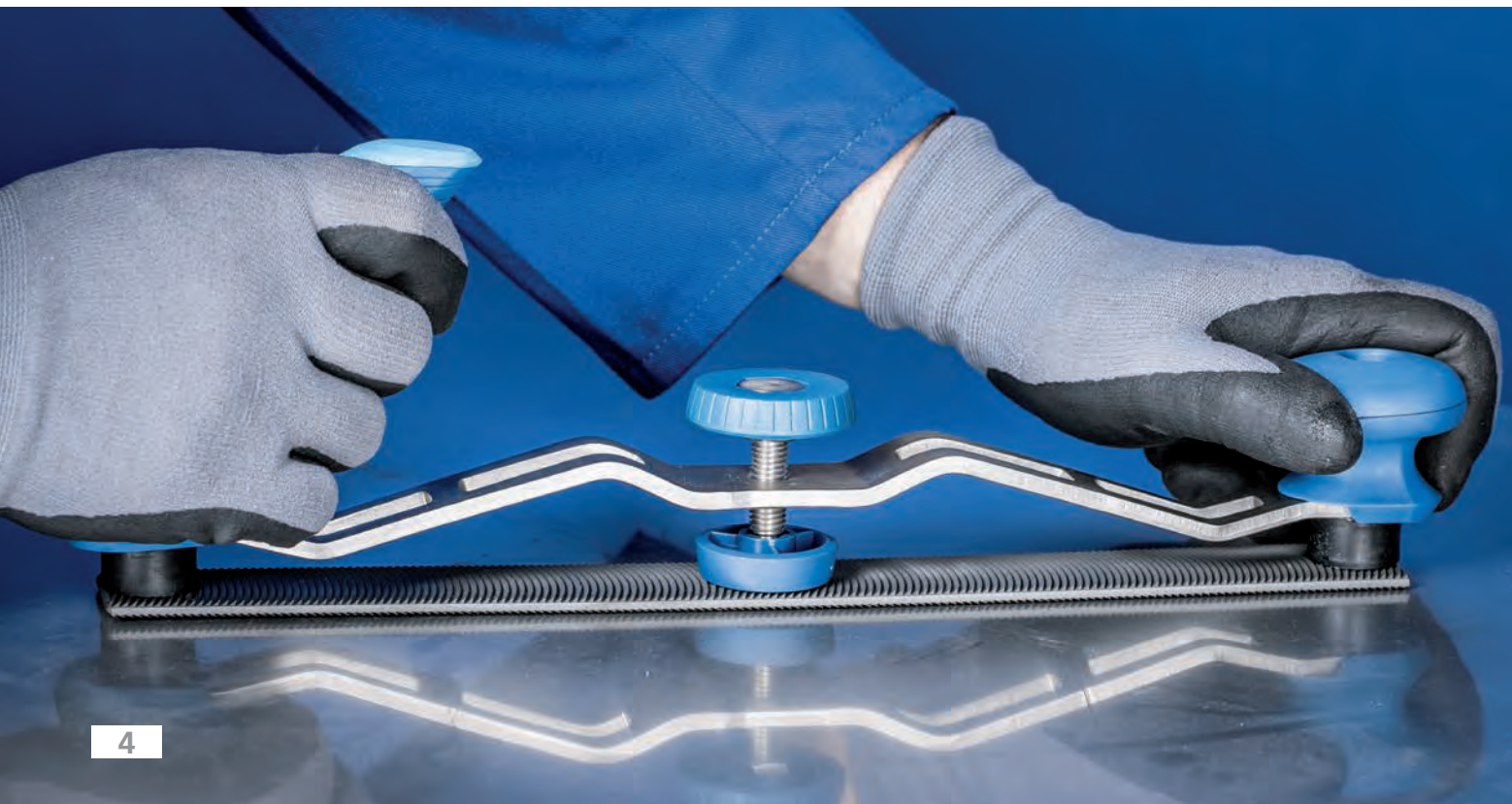
Advantages:

- The bending radius of the file can be steplessly adjusted via the tensioning system.
- Particularly lightweight plastic design without plasticizer.
- Can be used in a focused manner or over a wide area as the car body file can be used curved as well as straight.
- Enables work with low levels of fatigue due to vibration-damping rubber pad.

PFERDVALUE®:



Compatible for file length [Inches]	EDP number	
12	14012	1
14	14013	1



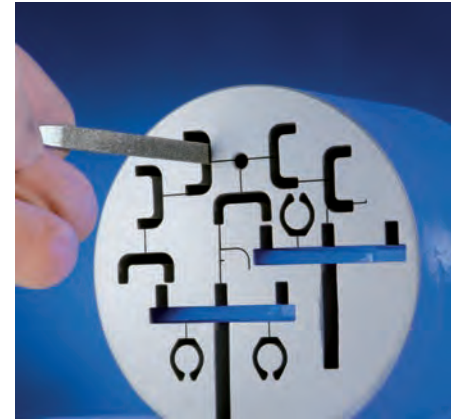
Diamond files are ideal for tasks where conventional files fail due to the hardness of the workpiece material. They also provide a more economical solution for many applications.

Recommendations for use:

- Apply only slight pressure to the file, especially in workpiece edge areas.
- Loaded diamond files can be cleaned in kerosene or anti-static plastic cleaner with a file brush. Alternatively, ultrasonic cleaning is also possible. Often it will suffice to knock the file against a hard object.
- Avoid contact with grease when using these files!

Note:

Diamond files are also used for processing hardened steel. The working temperatures are so low that no chemical wear occurs. This allows the higher hardness of the diamond grain to be exploited for a longer service life.




Flexible diamond files

Flexible diamond files adapt perfectly to workpiece surfaces. Due to their flexibility, they can be used in convex and concave contours with small radii.



Recommendations for use:


- Only use files up to a bending radius of 5/8".

Length [Inches]	Cross-section [Inches]	Coating type	Grit size and EDP number			
			D 76 fine 200/230	D 126 medium 120/140	D 181 coarse 80/100	
6-1/2	1/64 x 9/16	single-sided	04090	04091	04092	5

Diamond semi-flexible files

These semi-flexible diamond files are exceptionally well suited to work on larger surfaces. Convex and concave contours can be worked on with relatively little effort.



Length [Inches]	Cross-section [Inches]	Coating type	Grit size and EDP number		
			D 64 fine 230/270	D 126 coarse 120/140	
6-5/8	1-3/16 x 1/32	complete	04100	04102	1
14	1-3/8 x 3/64	complete	04103	04101	1

TOOL MANUAL 23 at-a-glance

OMNI cut carbide burs for versatile use

With the innovative OMNI cut, PFERD has developed unique burs for versatile use on key materials such as steel and cast steel, stainless steel (INOX), non-ferrous metals, and cast iron. The OMNI cut offers all the benefits of the tried-and-tested double cut, but its stock removal rate is up to 30% higher for steel. It enables comfortable working with reduced vibration and less noise, and also offers significant time savings and a high economic value.

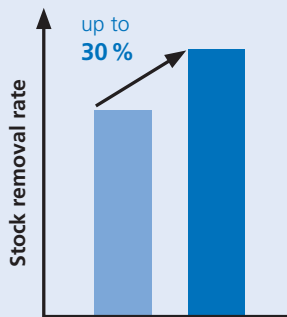
Advantages:

- Significantly better stock removal rate than burs with a conventional double cut.
- Saves money and time with its very high stock removal rate on key materials.
- Comfortable working with reduced vibration and less noise.

Workpiece materials:

- Steel, cast steel
- Stainless steel (INOX)
- Non-ferrous metals
- Cast iron

Performance values for applications on steel



- Conventional double cut burs
- Carbide burs, OMNI cut

Applications:

- Milling out
- Leveling
- Deburring
- Cutting out holes
- Surface work
- Work on weld seams

Recommendations for use:

- It is recommended to use the burs on powerful power tools with elastically mounted spindles to avoid vibration.
- For the most cost-effective use of burs, work with higher rotational/peripheral speeds. Power recommendation for power tools: from 300 watts.
- Please observe the rotational speed recommendations.

Compatible with:

- Flexible shaft drive
- Straight grinder
- Robot
- CNC machines

Safety note:

- The very high stock removal rate can cause discolouration on the shank. This does not constitute a safety risk.



PFERDVALUE®:

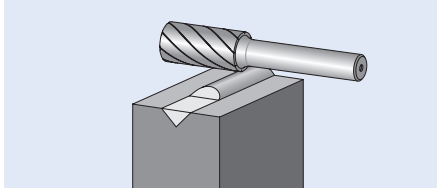
PFERDERGONOMICS® recommends burs with OMNI cut as an innovative bur solution for comfortable working with significantly reduced vibration and less noise.



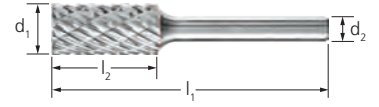
PFERDEFFICIENCY® recommends burs with OMNI cut for long fatigue-free and resource-saving work with perfect results in a very short period of time.



Cylindrical bur with plain end (uncut) – Shape A



PFERDVALUE®:

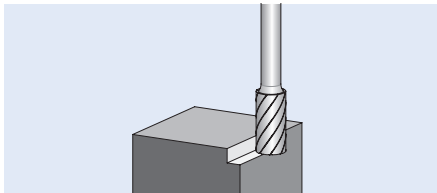


d ₁ [Inches]	l ₂ [Inches]	SCTI no.	l ₁ [Inches]	Cut type and EDP number	
				OMNI 	

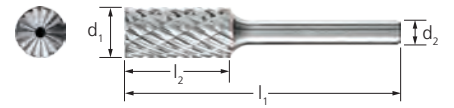
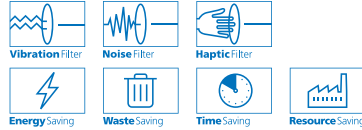
Shank dia. 1/4" [d₂]

1/4	5/8	SA-1	1-15/16	28026	1
3/8	3/4	SA-3	2-1/2	28018	1
1/2	1	SA-5	2-3/4	28005	1

Cylindrical bur with end cut – Shape B



PFERDVALUE®:

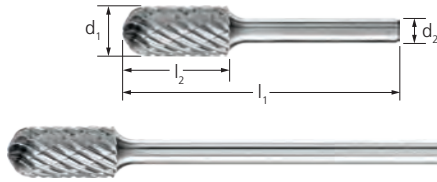


d ₁ [Inches]	l ₂ [Inches]	SCTI no.	l ₁ [Inches]	Cut type and EDP number	
				OMNI 	

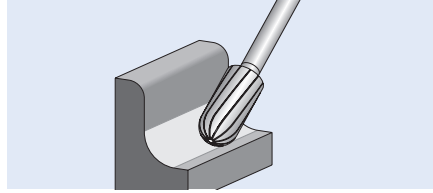
Shank dia. 1/4" [d₂]

1/4	5/8	SB-1	1-15/16	28029	1
3/8	3/4	SB-3	2-1/2	28019	1
1/2	1	SB-5	2-3/4	28010	1
5/8	1	SB-6	2-3/4	28032	1





Cylindrical bur with radius end – Shape C



Safety notes:



Please observe the reduced rotational speeds for extended shank burs.

PFERDVALUE®:



Vibration Filter



Noise Filter



Haptic Filter



Energy Saving





Waste Saving



Time Saving



Resource Saving

d ₁ [Inches]	l ₂ [Inches]	SCTI no.	l ₁ [Inches]	Cut type and EDP number	
				OMNI 	

Shank dia. 1/4" [d₂]

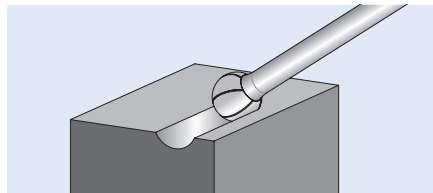
1/4	5/8	SC-1	1-15/16	28024	1
3/8	3/4	SC-3	2-1/2	28006	1
1/2	1	SC-5	2-3/4	28001	1
5/8	1	SC-6	2-3/4	28030	1

Extended shank – dia. 1/4" [d₂], SL 6" (L6)

3/8	3/4	SC-3L6	6-5/8	28020	1
1/2	1	SC-5L6	6-7/8	28017	1



Ball bur – Shape D



PFERDVALUE®:



Vibration Filter



Noise Filter



Haptic Filter



Energy Saving





Waste Saving



Time Saving



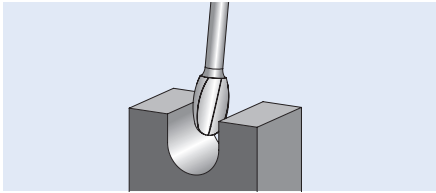
Resource Saving

d ₁ [Inches]	l ₂ [Inches]	SCTI no.	l ₁ [Inches]	Cut type and EDP number	
				OMNI 	

Shank dia. 1/4" [d₂]

1/4	3/16	SD-1	1-15/16	28034	1
3/8	5/16	SD-3	2-1/16	28021	1
1/2	7/16	SD-5	2-3/16	28028	1

Oval bur – Shape E

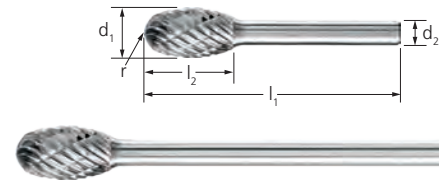




Safety notes:



Please observe the reduced rotational speeds for extended shank burs.

PFERDVALUE®:



d ₁ [Inches]	l ₂ [Inches]	SCTI no.	l ₁ [Inches]	r [Inches]	Cut type and EDP number	
					OMNI 	

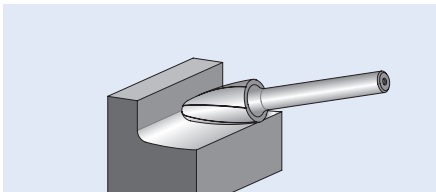
Shank dia. 1/4" [d₂]

3/8	5/8	SE-3	2-3/8	.157	28035	1
1/2	7/8	SE-5	2-5/8	.196	28025	1

Extended shank – dia. 1/4" [d₂], SL 6" (L6)

1/2	7/8	SE-5L6	6-3/4	.196	28022	1
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Tree bur with radius end – Shape F

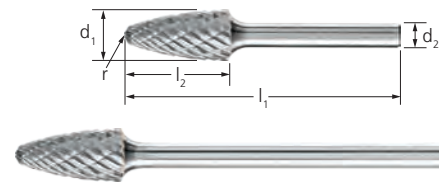




Safety notes:



Please observe the reduced rotational speeds for extended shank burs.

PFERDVALUE®:



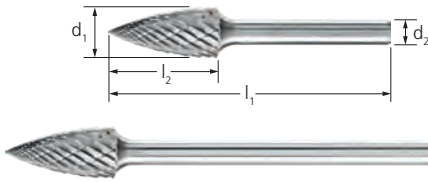
d ₁ [Inches]	l ₂ [Inches]	SCTI no.	l ₁ [Inches]	r [Inches]	Cut type and EDP number	
					OMNI 	

Shank dia. 1/4" [d₂]

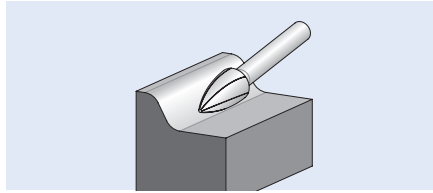
1/4	5/8	SF-1	1-15/16	.059	28012	1
3/8	3/4	SF-3	2-1/2	.098	28007	1
7/16	1	SF-4	2-3/4	.012	28002	1
1/2	1	SF-5	2-3/4	.098	28000	1
5/8	1	SF-6	2-3/4	.141	28033	1

Extended shank – dia. 1/4" [d₂], SL 6" (L6)

3/8	3/4	SF-3L6	6-3/4	.098	28027	1
1/2	1	SF-5L6	6-7/8	.098	28008	1



Tree bur with pointed end – Shape G





Safety notes:



Please observe the reduced rotational speeds for extended shank burs.

PFERDVALUE®:



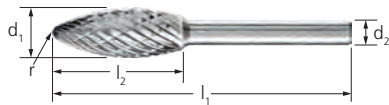
d ₁ [Inches]	l ₂ [Inches]	SCTI no.	l ₁ [Inches]	Cut type and EDP number	
				OMNI 	

Shank dia. 1/4" [d₂]

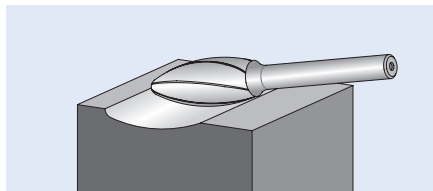
3/8	3/4	SG-3	2-1/2	28015	1
1/2	1	SG-5	2-3/4	28009	1

Extended shank – dia. 1/4" [d₂], SL 6" (L6)

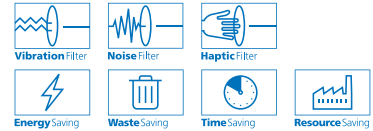
3/8	3/4	SG-3L6	6-3/4	28031	1
1/2	1	SG-5L6	6-7/8	28023	1





Flame bur – Shape H



PFERDVALUE®:



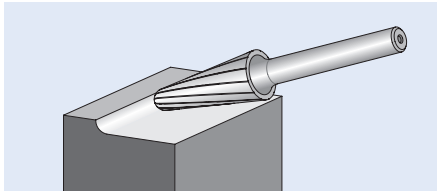
d ₁ [Inches]	l ₂ [Inches]	SCTI no.	l ₁ [Inches]	r [Inches]	Cut type and EDP number	
					OMNI 	

Shank dia. 1/4" [d₂]

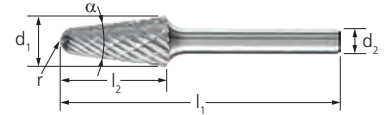
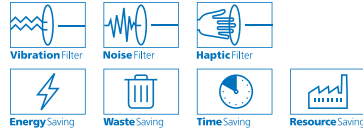
1/2	1-1/4	SH-5	3	.082	28004	1
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


14° Taper bur with radius end – Shape L



PFERDVALUE®:

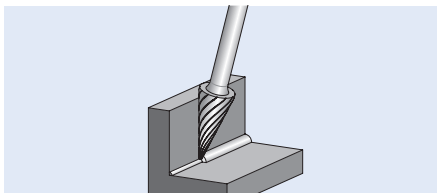


d ₁ [Inches]	l ₂ [Inches]	SCTI no.	α	l ₁ [Inches]	r [Inches]	Cut type and EDP number	
						OMNI 	

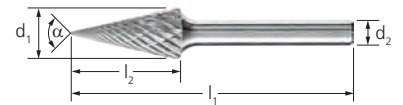
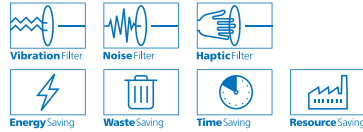
Shank dia. 1/4" [d₂]



3/8	1-1/16	SL-3	16°	3	.114	28003	1
1/2	1-1/8	SL-4	14°	3-1/16	.130	28014	1
5/8	1-5/16	SL-6	14°	3-1/4	.189	28013	1

Cone bur with pointed end – Shape M



PFERDVALUE®:



d ₁ [Inches]	l ₂ [Inches]	SCTI no.	α	l ₁ [Inches]	Cut type and EDP number	
					OMNI 	

Shank dia. 1/4" [d₂]

1/4	1	SM-3	10°	1-15/16	28036	1
1/2	1	SM-5	28°	2-3/4	28016	1



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STEEL cut carbide burs for steel and cast steel



With the innovative STEEL cut, PFERD has developed unique burs for working with steel and cast steel. They are characterized by significantly increased aggressiveness and good guidance, ensuring safe and precise work.

The extremely high stock removal rate makes burs with the STEEL cut impressive, with significant time savings and a high economic value.

Advantages:

- Up to 50% higher stock removal rate when used on steel and cast steel in comparison to conventional double cut burs.
- Significantly increased aggressiveness, large chips and very good chip removal resulting from the innovative tooth geometry.
- Workpiece is protected through much lower thermal load.

Applications:

- Milling out
- Leveling
- Deburring
- Cutting out holes
- Surface work
- Work on weld seams

Workpiece materials:

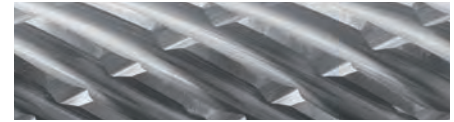
- Steel
- Cast steel

Recommendations for use:

- It is recommended to use the burs on powerful power tools with elastically mounted spindles to avoid vibration.
- For the most cost-effective use of burs, work with higher rotational/peripheral speeds. Power recommendation for power tools: from 300 watts.
- Please observe the rotational speed recommendations.

Compatible with:

- Flexible shaft drive
- Straight grinder
- Robot
- CNC machines



Safety note:

- The very high stock removal rate can cause discolouration on the shank. This does not constitute a safety risk.

PFERDVALUE®:

PFERDERGONOMICS® recommends burs with STEEL cut as an innovative product solution for comfortable working with significantly reduced vibration and less noise.

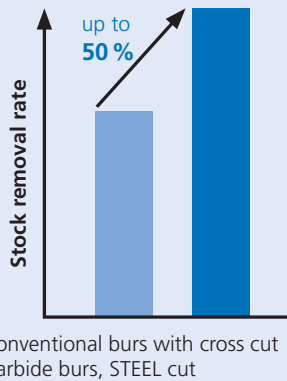


PFERDEFFICIENCY® recommends burs with STEEL cut for long fatigue-free and resource-saving work with perfect results in a very short period of time.

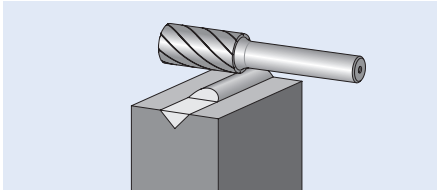


More PFERD products and information on working with steel can be found in our PRAXIS brochure "PFERD products for use on steel".

Performance values for applications on steel and cast steel



Cylindrical bur with plain end (uncut) – Shape A



Safety notes:



The rotational speeds for extended shank burs relate to applications where the bur is in constant contact with the workpiece.

PFERDVALUE®:



Vibration Filter



Noise Filter



Haptic Filter



Energy Saving



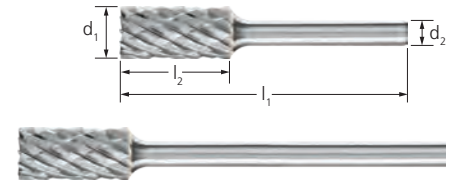
Waste Saving





Time Saving



Resource Saving

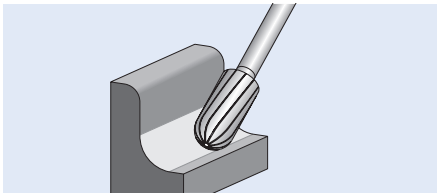


d ₁ [Inches]	l ₂ [Inches]	SCTI no.	l ₁ [Inches]	Cut type and EDP number	
				STEEL 	

Extended shank – dia. 1/4" [d₂], SL 6" (L6)

3/8	3/4	SA-3L6	6-5/8	25640	1
1/2	1	SA-5L6	6-7/8	25642	1

Cylindrical bur with radius end – Shape C



Safety notes:



The rotational speeds for extended shank burs relate to applications where the bur is in constant contact with the workpiece.

PFERDVALUE®:



Vibration Filter



Noise Filter



Haptic Filter



Energy Saving



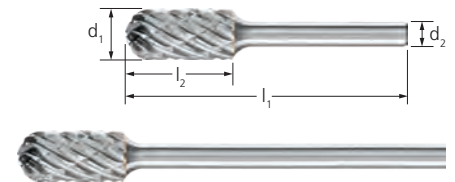
Waste Saving





Time Saving



Resource Saving



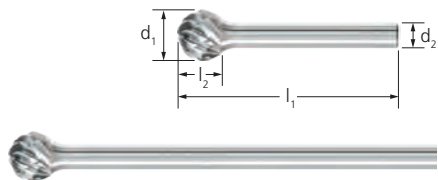
d ₁ [Inches]	l ₂ [Inches]	SCTI no.	l ₁ [Inches]	Cut type and EDP number	
				STEEL 	

Extended shank – dia. 1/4" [d₂], SL 6" (L6)

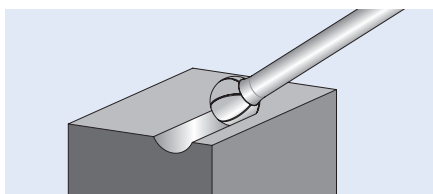
3/8	3/4	SC-3L6	6-5/8	25641	1
1/2	1	SC-5L6	6-7/8	25643	1

TOOL MANUAL 23 at-a-glance

STEEL cut carbide burs for steel and cast steel



Ball bur – Shape D

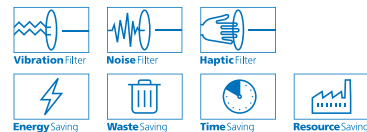




Safety notes:



The rotational speeds for extended shank burs relate to applications where the bur is in constant contact with the workpiece.

PFERDVALUE®:



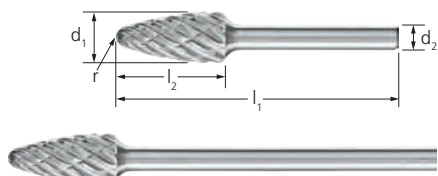
d ₁ [Inches]	l ₂ [Inches]	SCTI no.	l ₁ [Inches]	Cut type and EDP number	
				STEEL 	

Shank dia. 1/4" [d₂]

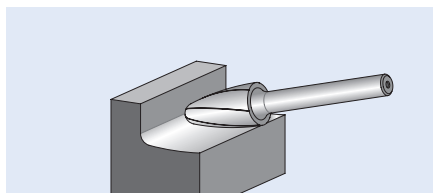
1/4	3/16	SD-1	1-15/16	24546	1
3/8	5/16	SD-3	2-1/16	24568	1
1/2	7/16	SD-5	2-3/16	24588	1
5/8	9/16	SD-6	2-5/16	24599	1

Extended shank – dia. 1/4" [d₂], SL 6" (L6)

3/8	5/16	SD-3L6	6-1/4	25650	1
1/2	7/16	SD-5L6	6-5/16	25651	1



Tree bur with radius end – Shape F

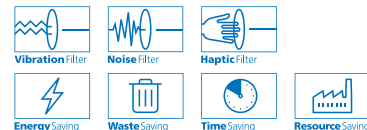




Safety notes:



The rotational speeds for extended shank burs relate to applications where the bur is in constant contact with the workpiece.

PFERDVALUE®:

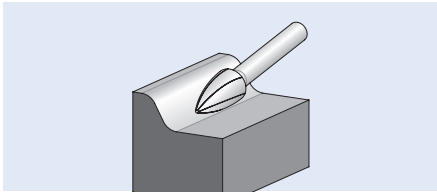


d ₁ [Inches]	l ₂ [Inches]	SCTI no.	l ₁ [Inches]	r [Inches]	Cut type and EDP number	
					STEEL 	

Extended shank – dia. 1/4" [d₂], SL 6" (L6)

3/8	3/4	SF-3L6	6-3/4	.098	25645	1
1/2	1	SF-5L6	6-7/8	.098	25647	1

Tree bur with pointed end – Shape G



Safety notes:



The rotational speeds for extended shank burs relate to applications where the bur is in constant contact with the workpiece.

PFERDVALUE®:



Vibration Filter



Noise Filter



Haptic Filter



Energy Saving



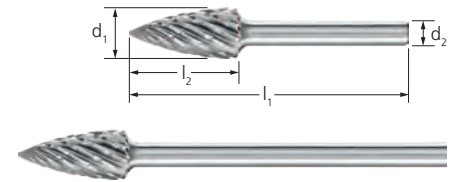
Waste Saving





Time Saving



Resource Saving

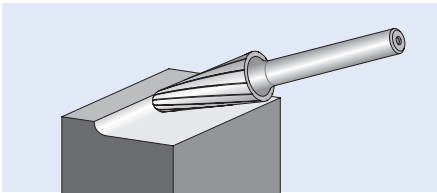


d ₁ [Inches]	l ₂ [Inches]	SCTI no.	l ₁ [Inches]	Cut type and EDP number	
				STEEL 	

Extended shank – dia. 1/4" [d₂], SL 6" (L6)

3/8	3/4	SG-3L6	6-3/4	25644	1
1/2	1	SG-5L6	6-7/8	25646	1

14° Taper bur with radius end – Shape L



Safety notes:



The rotational speeds for extended shank burs relate to applications where the bur is in constant contact with the workpiece.

PFERDVALUE®:



Vibration Filter



Noise Filter



Haptic Filter



Energy Saving



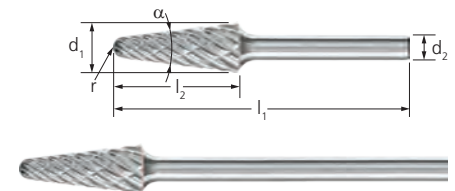
Waste Saving





Time Saving



Resource Saving



d ₁ [Inches]	l ₂ [Inches]	SCTI no.	α	l ₁ [Inches]	r [Inches]	Cut type and EDP number	
						STEEL 	

Extended shank – dia. 1/4" [d₂], SL 6" (L6)

3/8	1-1/16	SL-3L6	14°	7-1/8	.114	25648	1
1/2	1-1/8	SL-4L6	14°	7-3/16	.130	25649	1

TOOL MANUAL 23 at-a-glance

ALU cut carbide burs for aluminum/non-ferrous metals



When it comes to machining aluminum and non-ferrous metals, PFERD offers a HICOAT® coating which has been designed specifically for demanding machining tasks on long-chipping and lubricating materials.

Applications:

- Milling out
- Leveling
- Deburring
- Cutting out holes
- Surface work
- Work on weld seams

Compatible with:

- Flexible shaft drive
- Straight grinder
- Robot
- CNC machines

Recommendations for use:

- If possible, use the tools on powerful drives with elastically mounted spindles to avoid vibration.
- For the cost-effective use of burs, work with higher rotational/peripheral speeds.
Power recommendation for power tools:
 - Shank diameter of 1/8": 75 to 300 watts
 - Shank diameter of 1/4": from 500 watts
- Please observe the rotational speed recommendations.



More PFERD tools and a wealth of useful information on working with aluminum can be found in our PRAXIS brochure "PFERD tools for use on aluminum".

ALU cut with HICOAT® coating HC-NFE



The use of burs with the PFERD HICOAT® coating HC-NFE prevents chips adhering during work on soft aluminum alloys. This increases the service life and improves the surface quality of the workpiece.

Advantages:

- Mainly used for long-chipping and lubricating non-ferrous metals.
- Highest stock removal rate.
- Effective chip removal through improved anti-adhesion characteristics.
- Lower thermal loads.
- Longer service life.

Workpiece materials:

- Aluminum
- Bronze
- Copper
- Brass
- Titanium
- Titanium alloys
- Zinc
- Fibre-reinforced plastics (GRP/CRP)
- Thermoplastics

PFERDVALUE®:

PFERDEFFICIENCY® recommends burs with HICOAT® coating for long fatigue-free and resource-saving work with perfect results in a very short period of time.

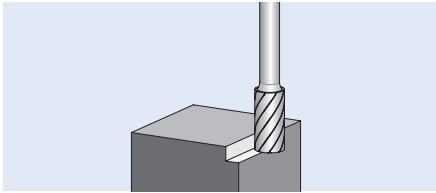


Waste Saving

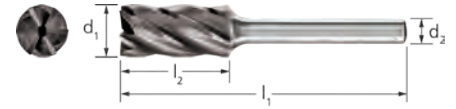


Time Saving

Cylindrical bur with end cut – Shape B



PFERDVALUE®:
 With HICOAT® coating:

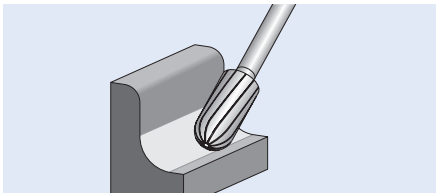


d ₁ [Inches]	l ₂ [Inches]	SCTI no.	l ₁ [Inches]	Cut type and EDP number	
				ALU HC-NFE 	

Shank dia. 1/4" [d₂]

3/8	3/4	SB-3	2-1/2	24250	1
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Cylindrical bur with radius end – Shape C



PFERDVALUE®:
 With HICOAT® coating:

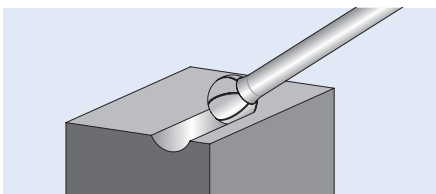


d ₁ [Inches]	l ₂ [Inches]	SCTI no.	l ₁ [Inches]	Cut type and EDP number	
				ALU HC-NFE 	

Shank dia. 1/4" [d₂]

3/8	3/4	SC-3	2-1/2	24433	1
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Ball bur – Shape D



PFERDVALUE®:
 With HICOAT® coating:



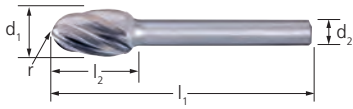
d ₁ [Inches]	l ₂ [Inches]	SCTI no.	l ₁ [Inches]	Cut type and EDP number	
				ALU HC-NFE 	

Shank dia. 1/4" [d₂]

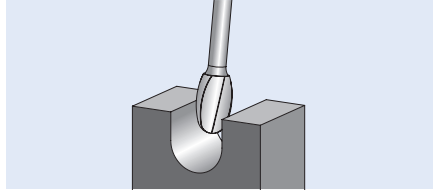
3/8	5/16	SD-3	2-1/16	24570	1
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TOOL MANUAL 23 at-a-glance

ALU cut carbide burs for aluminum/non-ferrous metals



Oval bur – Shape E



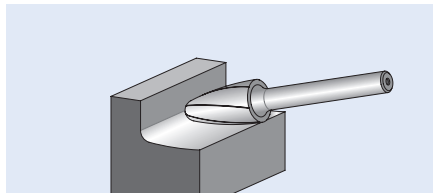
d ₁ [Inches]	l ₂ [Inches]	SCTI no.	l ₁ [Inches]	r [Inches]	Cut type and EDP number	
					ALU 	

Shank dia. 1/4" [d₂]

1/4	3/8	SE-1	1-15/16	.110	25652	1
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Tree bur with radius end – Shape F



PFERDVALUE®:
With HICOAT® coating:



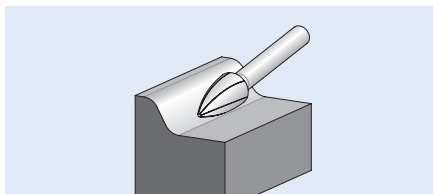
d ₁ [Inches]	l ₂ [Inches]	SCTI no.	l ₁ [Inches]	r [Inches]	Cut type and EDP number	
					ALU HC-NFE 	

Shank dia. 1/4" [d₂]

3/8	3/4	SF-3	2-1/2	.098	24710	1
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Tree bur with pointed end – Shape G

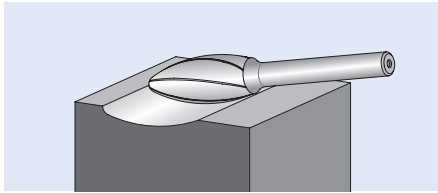


d ₁ [Inches]	l ₂ [Inches]	SCTI no.	l ₁ [Inches]	Cut type and EDP number	
				ALU 	

Shank dia. 1/4" [d₂]

1/4	5/8	SG-1	1-15/16	25653	1
3/8	3/4	SG-3	2-1/2	25654	1
1/2	1	SG-5	2-3/4	25655	1
5/8	1	SG-6	2-3/4	25656	1

Flame bur – Shape H

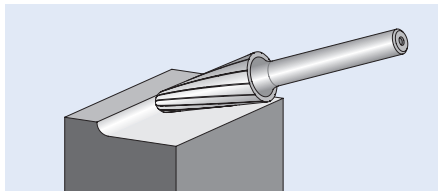


d ₁ [Inches]	l ₂ [Inches]	SCTI no.	l ₁ [Inches]	r [Inches]	Cut type and EDP number	
					ALU 	

Shank dia. 1/4" [d₂]

1/4	5/8	SH-1	1-15/16	.039	25657	1
5/16	3/4	SH-2	2-1/2	.059	25658	1
1/2	1-1/4	SH-5	3	.082	25659	1

14° Taper bur with radius end – Shape L



PFERDVALUE®:
 With HICOAT® coating:



d ₁ [Inches]	l ₂ [Inches]	SCTI no.	α [Inches]	l ₁ [Inches]	r [Inches]	Cut type and EDP number	
						ALU HC-NFE 	

Shank dia. 1/4" [d₂]

3/8	1-1/16	SL-3	14°	3	.114	25160	1
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TOOL MANUAL 23 at-a-glance

Carbide burs for work on edges

Carbide burs for work on edges are mainly used in steel and aluminum construction, and have been specifically designed for chamfering, deburring, and rounding of edges. PFERD offers burs for both flexible as well as for defined work on edges, including EDGE ALU designed with ALU cut for use on aluminum.

Workpiece materials:

- Steel and cast steel
- Stainless steel (INOX)
- Non-ferrous metals
- Cast iron
- Plastics, other materials

Compatible with:

- Flexible shaft drive
- Straight grinder
- Robot
- CNC machines

Defined work on edges with the EDGE cut

Carbide burs with the EDGE cut have been specially developed for defined work on edges. The special design allows the bur to run directly along the edges without damaging the workpiece. Exact edge shapes can be created in a single step – with either defined chamfers of 30° or 45°, or to a defined radius of 1/8". Among other things, rounding edges is a precautionary measure for anti-corrosion protection according to ISO 12944-3, ISO 8501-3, SOLAS XII/6.3 (Ref. T4/3.01 MSC.1/Circ.1198).

Advantages:

- Special design for precise guidance.
- Safe and comfortable to guide.
- Create exact edge shapes in a single step.

Applications:

- Defined work on edges
- Defined deburring
- Breaking and rounding edges in steel and aluminum construction
- Rounding edges in preparation for the application of anti-corrosion coatings in shipbuilding, on crane systems and other steel constructions which are exposed to corrosion loading
- Defined chamfering for weld seam preparation for V-shaped seams (60°, ISO 9692-1)
- Defined chamfering for edge breaking (45°)

Recommendations for use:

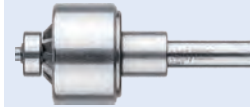
- Use the burs counterrotationally. In order to produce a fine surface, pass the bur over the edges in the rotational direction.
- If possible, use EDGE cut burs with the PFERD pneumatic straight grinder PG 3/210 (EDP 90036) with matching guide sleeve EFH PG 3/210 (EDP 95294) (see the info box on the right).

PFERDVALUE®:

PFERDEFFICIENCY® recommends burs with EDGE cut for long fatigue-free and resource-saving work with perfect results in a very short period of time.



EDGE Cutting System (ECS)



The EDGE Cutting System consists of burs with the EDGE cut and a special guide sleeve that can be mounted into a conventional power tool collet to ensure optimal guidance during light deburring work.

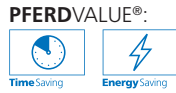
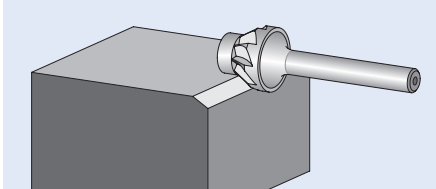
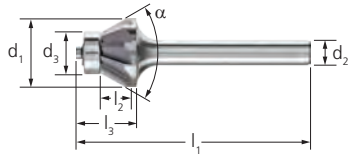
Advantages:


- Improved guidance.
- Can be used with any conventional straight grinder.
- Bur is interchangeable.



Cone counterbore EDGE 30°

Cone counterbore bur for the production of precisely defined chamfers. Suitable for counterboring and chamfering of defined 30° chamfer angles.



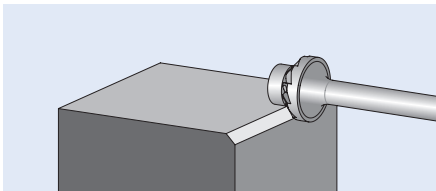
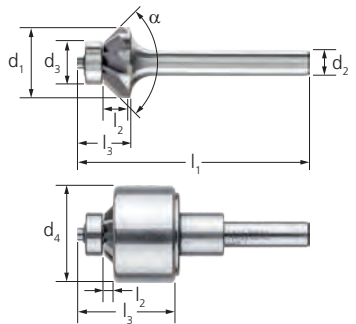
d ₁ [Inches]	l ₂ [Inches]	SCTI no.	l ₃ [Inches]	α [Inches]	l ₁ [Inches]	d ₃ [Inches]	Cut type and EDP number EDGE ALU	
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Shank dia. 1/4" [d₂]

5/8	3/16	SJ-6	9/16	60°	2-1/4	3/8	25175	1
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Cone counterbore EDGE 45°


Cone counterbore bur for the production of precisely defined chamfers. Suitable for counterboring and chamfering of defined 45° chamfer angles. The chamfers created using the EDGE Cutting System (ECS) are .047" (+/- .007") wide.



Ordering notes:

- The EDGE Cutting System (ECS) bur can be reordered and replaced if required. Matching burs: EDP 25105 (EDGE) and EDP 25176 (EDGE ALU). See TOOL MANUAL 23 for more information.



d ₁ [Inches]	l ₂ [Inches]	SCTI no.	l ₃ [Inches]	α [Inches]	l ₁ [Inches]	d ₃ [Inches]	d ₄ [Inches]	Cut type and EDP number EDGE EDGE ALU	
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Shank dia. 1/4" [d₂]

5/8	1/8	SK-6	1/2	90°	2	3/8	-	- 25176	1
-----	-----	------	-----	-----	---	-----	---	---------	---

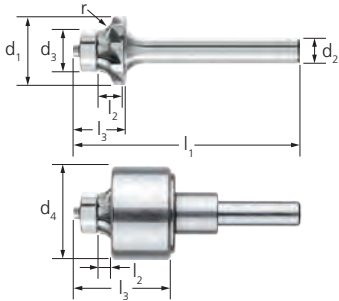
EDGE Cutting System (ECS) – Shank dia. 1/4" [d₂]

5/8	.040	SK-6	5/16	90°	2	3/8	1	25106 25177	1
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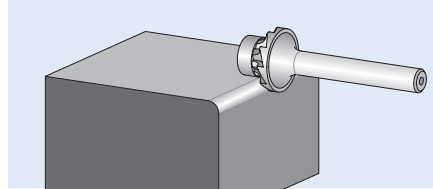
TOOL MANUAL 23 at-a-glance

Carbide burs for work on edges



Concave radius bur EDGE R-1/8"

Concave radius burs for the production of precise radii. Cannot be re-sharpened. Suitable for the production and processing of 1/8" outer radii.





Ordering notes:

- The EDGE Cutting System (ECS) bur can be reordered and replaced if required. Matching bur: EDP 25150. See TOOL MANUAL 23 for more information.

PFERDVALUE®:



d ₁ [Inches]	l ₂ [Inches]	l ₃ [Inches]	l ₁ [Inches]	d ₃ [Inches]	d ₄ [Inches]	r [Inches]	Cut type and EDP number	
							EDGE 	

EDGE Cutting System (ECS) – Shank dia. 1/4" [d₂]

5/8	1/8	1/2	2	3/8	1	1/8	25149	1
-----	-----	-----	---	-----	---	-----	-------	---

Evaluation bur sets



5-piece carbide bur set – multi-material


Contains five carbide burs in different cuts in the most common shapes and dimensions, uniquely designed for various materials including steel, stainless steel, aluminum and cast iron.

The sturdy plastic box protects the burs from dirt and damage. Five additional unused slots are available for other burs.

EDP 26557

5 piece carbide bur set 1/4" shank (plastic case)

Contains 5 pcs. burs with 1/4" shank diameter.

Set contents shape	Cut	Bur dia. d ₁ [Inches]	Bur length l ₂ [Inches]	SCTI no.	EDP number		
						Individual bur EDP's in set	
Tree (radius end)	STEEL	1/2	2-3/4	SF-5	26557	24728	1
Tree (radius end)	INOX	1/2	2-3/4	SF-5		24727	1
Tree (radius end)	ALU	1/2	2-3/4	SF-5		24725	1
Tree (radius end)	CAST	1/2	2-3/4	SF-5		24729	1
Tree (radius end)	OMNI	1/2	2-3/4	SF-5		28000	1

TOUGH mounted points

The TOUGH type is specifically designed for use on titanium materials, nickel-based and cobalt-based alloys, hardened steel components and built-up weld deposits. Its applications include weld dressing on repair welds and reworking on turbine blades during aircraft maintenance and regrinding of repair welds in tool and die-making.

Advantages:

- Cool grinding due to the easily broken-down grain mixture.
- High stock removal rate results in increased productivity.
- The self-sharpening properties of the ceramic oxide grain provide consistent stock removal rates throughout the life of the product.

Workpiece materials:

- Hardened, heat-treated steels over 370 HV
- Titanium alloys
- Titanium
- High-temperature-resistant materials
- Nickel-based and cobalt-based alloys

Type:

- Vitrified bond
- Mixture of ceramic oxide grain and white aluminum oxide

Recommendations for use:

- TOUGH mounted points perform best at a peripheral speed of 6,000–9,800 SFPM.

Compatible power tools:

- Flexible shaft drive
- Straight grinder

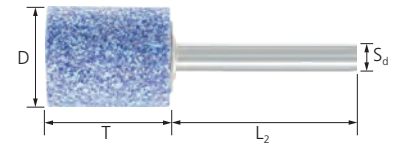
Safety notes:

- The maximum permitted rotational speed relates to the unsupported shank length of 1/2".

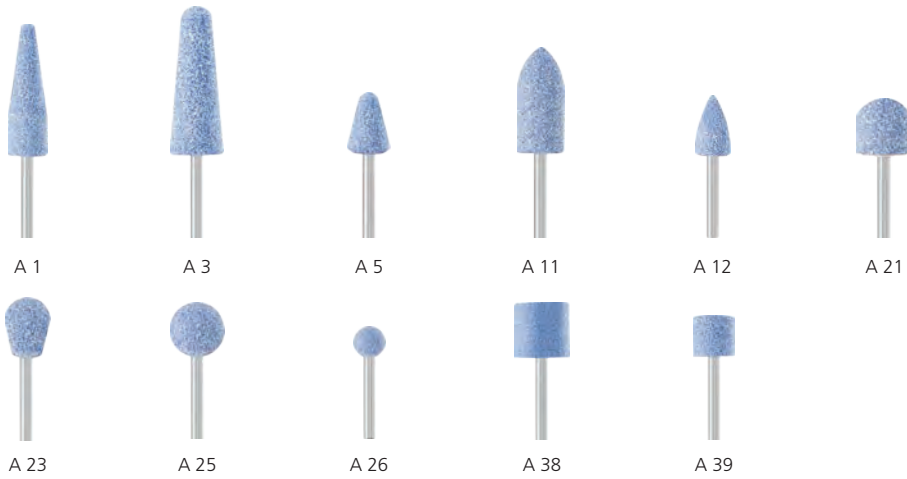


TOUGH, series W

The cylindrical shape is ideal for grinding bores, radii and contours.



Shape	D [Inches]	T [Inches]	Grit size and EDP number			Recom. RPM 1/2" overhang	Max. RPM 1/2" overhang	Max. RPM 1" overhang	
			46	60	80				
Shank diameter 1/8" x 1-1/4" [S_d x L₂]									
W 154	3/16	1/2	-	30127	-	70,500	70,500	45,600	10
W 163	1/4	1/2	-	30131	-	60,000	60,000	38,020	10
W 164	1/4	3/4	-	30133	-	45,900	45,900	30,000	10
W 170	5/16	1/2	-	30135	-	52,500	52,500	33,000	10
W 185	1/2	1/2	-	30145	-	34,500	34,500	22,500	10
W 215	1	1/8	-	30165	-	34,400	38,200	24,900	10
Shank diameter 1/4" x 1-1/2" [S_d x L₂]									
W 179	3/8	1-1/4	-	-	30142	45,750	45,750	33,750	10
W 218	1	1/2	-	-	30166	35,000	38,200	32,770	10
W 220	1	1	-	-	30170	25,500	25,500	19,120	10
W 222	1	2	-	-	30176	15,900	15,900	12,370	10
W 236	1-1/2	1/2	30182	-	-	22,000	25,470	25,470	10
W 239	1-1/2	2	-	-	30189	12,750	12,750	9,900	10
W 242	2	1	-	-	30192	17,200	19,100	15,950	10

**TOUGH, series A**

Series A mounted points are generally used on larger components. Due to the special shapes of series A mounted points, it is possible to grind in a variety of contours. The applications range from grinding out slits and grooves in hard-to-reach areas to machining bores and small holes as well as smoothing.

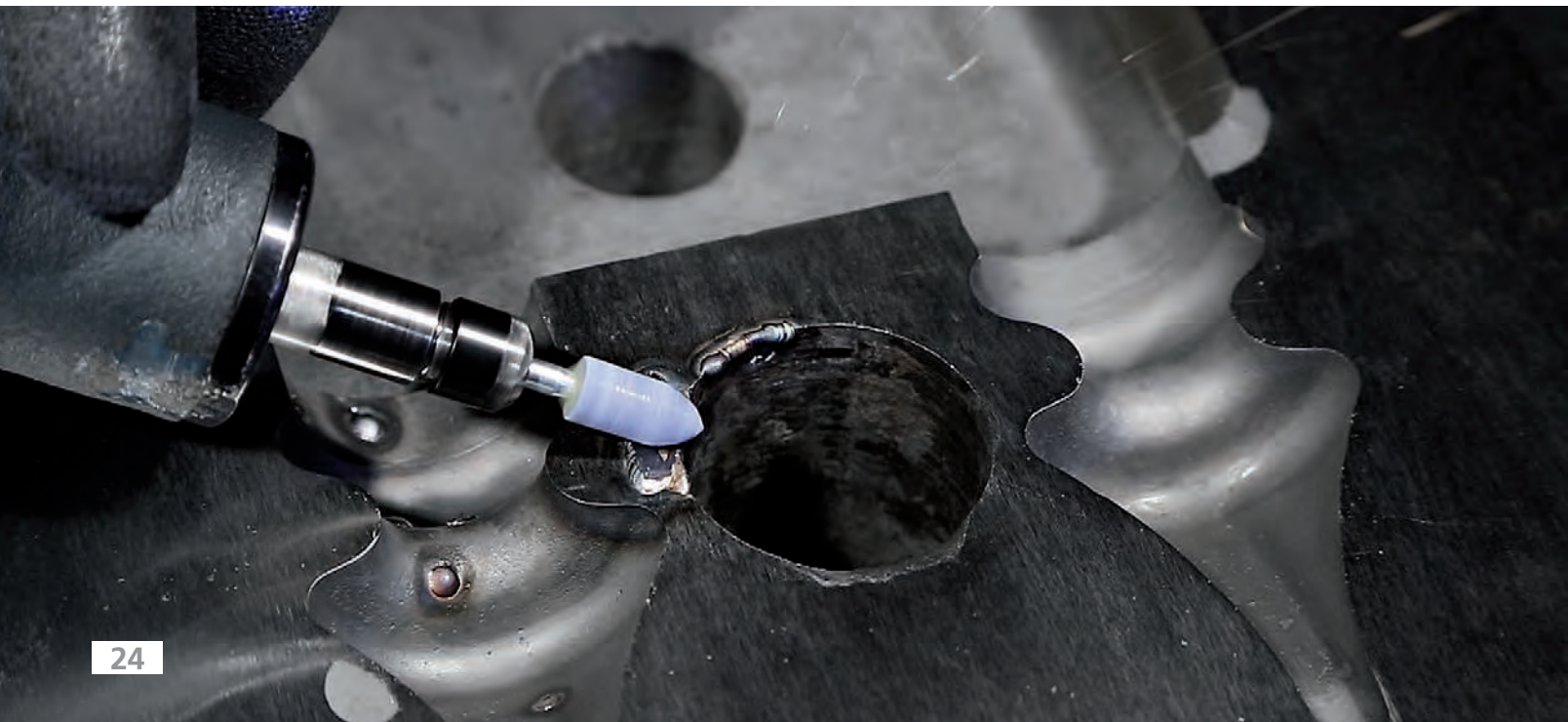
Dimensional specifications:

D = Mounted point outer diameter
 T = Mounted point width
 S_d = Shank diameter
 L_2 = Shank length

Shape	D [Inches]	T [Inches]	Grit size and EDP number		Recom. RPM 1/2" overhang	Max. RPM 1/2" overhang	Max. RPM 1" overhang	
			46	80				

Shank diameter 1/4" x 1-1/2" [$S_d \times L_2$]

A 1	3/4	2-1/2	-	30001	19,800	19,800	16,500	10
A 3	1	2-3/4	-	30004	16,100	16,100	13,080	10
A 5	3/4	1-1/8	-	30007	45,000	45,000	33,750	10
A 11	7/8	2	-	30011	19,860	19,860	15,100	10
A 12	11/16	1-1/4	-	30013	48,000	48,000	35,250	10
A 21	1	1	-	30018	34,400	34,500	26,250	10
A 23	3/4	1	-	30021	39,370	39,370	30,370	10
A 25	1	1	30022	-	34,000	35,620	27,370	10
A 26	5/8	5/8	-	30025	53,700	61,120	46,500	10
A 38	1	1	30033	30034	34,500	34,500	26,250	10
A 39	3/4	3/4	30035	30036	45,200	47,250	35,250	10



TOUGH, series B

Series B mounted points are generally used on smaller or more delicate components, such as in tool and die construction. Due to the special shapes of series B mounted points, it is possible to grind in a variety of contours. The applications range from grinding out slits and grooves in hard-to-reach areas to machining bores and small holes as well as smoothing.



Dimensional specifications:

- D = Mounted point outer diameter
- T = Mounted point width
- S_d = Shank diameter
- L₂ = Shank length

Shape	D [Inches]	T [Inches]	Grit size and EDP number	Recom. RPM 1/2" overhang	Max. RPM 1/2" overhang	Max. RPM 1" overhang	
			60				
Shank diameter 1/8" x 1-1/4" [S_d x L₂]							
B 42	1/2	3/4	30053	33,750	33,750	23,250	10
B 52	3/8	3/4	30064	45,370	45,370	28,500	10
B 97	1/8	3/8	30082	105,000	105,000	64,500	10
B 122	3/8	3/8	30090	61,650	61,650	37,720	10
B 125	1/4	1/4	30094	81,370	81,370	51,000	10
B 131	1/2	1/2	30096	34,500	34,500	22,500	10





TOOL STEEL mounted points

The TOOL STEEL type is ideal for surface grinding of hardened steel. Its applications include grinding of heat-treated steel components, titanium and titanium alloy workpieces as well as dressing of hard deposit-welded claddings.

Advantages:

- Easy to break down, sharp-edged aluminum oxide allows high stock removal rates on hardened steel.
- The open structure allows good heat dissipation and cool grinding.

Workpiece materials:

- Hardened, heat-treated steels over 370 HV
- Tool steel
- Titanium
- Titanium alloys

Type:

- Vitrified bond
- White aluminum oxide

Recommendations for use:

- TOOL STEEL mounted points perform best at a peripheral speed of 6,000–9,800 SFPM.

Compatible power tools:

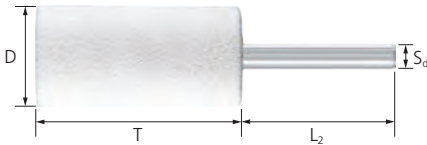
- Flexible shaft drive
- Straight grinder

Ordering notes:

- To request further dimensions, please refer to TOOL MANUAL 23.


Safety notes:

- The maximum permitted rotational speed relates to the unsupported shank length of 1/2".



TOOL STEEL, series W

The cylindrical shape is ideal for grinding bores, radii and contours.

Shape	D [Inches]	T [Inches]	Grit size and EDP number	Recom. RPM 1/2" overhang	Max. RPM 1/2" overhang	Max. RPM 1" overhang	
			60				
Shank diameter 1/4" x 1-1/2" [S_d x L₂]							
W 222	1	2	34212	15,900	15,900	12,370	10




Grinding wheel dresser

Ideal accessory for PFERD bench grinding wheels if the wheel is clogged or its shape has changed.

The dressing roller consists of hardened steel discs with U-shaped teeth. Wave washers between the tooth discs make the tooth roller stable and robust. For high peripheral speeds, the dresser has a spindle with an integrated grease fitting to guarantee a long service life.




Overall length [Inches]	Roll width [Inches]	Roll dia. [Inches]	EDP number	Max. wheel diameter [Inches]	Max. wheel thickness [Inches]	
17	1-1/2	1	39110	20	2-1/2	1

Replacement roller

The replaceable roller can be used until the teeth are completely worn.




Roll width [Inches]	Roll dia. [Inches]	EDP number	
1-1/2	1	39114	1

Replacement spindle

The greaseable spindle can be used to replace worn spindles.




Roll width [Inches]	Axis dia. [Inches]	EDP number	
1-1/2	1/2	39115	1

Grinding wheel dressing rod

The SiC grinding wheel dresser is a low-cost alternative for dressing bench grinding wheels. A stainless steel tube protects the SiC rod from breaking, making the tool more robust.



Overall length [Inches]	Diameter [Inches]	EDP number	
10	1	39112	1



TOOL MANUAL 23 at-a-glance

Resin bond, aluminum oxide 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!




Type 16



Type 18R

Cones and plugs

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

D ₁ [Inches]	T [Inches]	Grit size	Thread and EDP number	Recom. RPM	Max. RPM	
			5/8-11			
Curved (type 16)						
3	3	16	61838	12,000	12,500	10
Straight (type 18R)						
3	3	16	61937	12,000	12,500	10



PFERD grinding and polishing stones are versatile tools for finish machining on forms in tool and die-making. They are used for step-by-step fine grinding after machining or after electrical discharge machining (EDM) to grind in a brushed finish/polish in the demoulding direction or to prepare for high-gloss polishing with diamond pastes.

Advantages:

- Long service life.
- High dimensional stability.
- High abrasive performance.
- Controlled, even stock removal.
- Fine surface finish.

Applications:

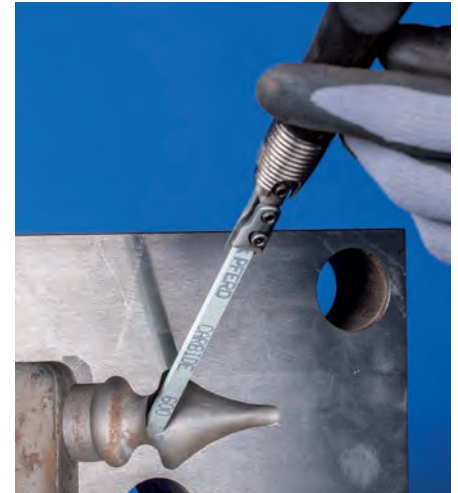
- Surface work
- Polishing
- Rounding
- Finishing
- Step-by-step fine grinding

Recommendations for use:

- A quick-mounting handle is recommended in manual applications to make work more ergonomic.
- The use of grinding oils is recommended to achieve a better surface finish.
- Sort the grinding and polishing stones by type to avoid grain being carried over.

Compatible power tools:

- Manual filing machine



UNIVERSAL type

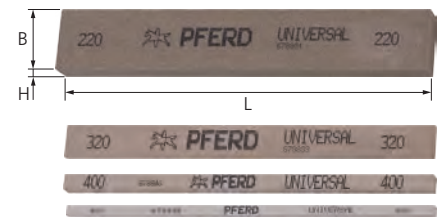
The UNIVERSAL type grinding and polishing stones general purpose hand tools for step-by-step fine grinding in tool and die-making.

Workpiece materials:

Hardened, heat-treated steels over 370 HV (38 HRC), stainless steel (INOX), aluminum, other non-ferrous metals

Type:

Vitrified bond, regular aluminum oxide



B [Inches]	H [Inches]	L [Inches]	Grit size and EDP number				
			220	320	400	600	
Square							
5/32	5/32	6	39050	39056	39062	39068	12
1/4	1/8	6	39051	39057	39063	39069	12
	1/4	6	39052	39058	39064	39070	12
1/2	1/8	6	39053	39059	39065	39071	12
	1/4	6	39054	39060	39066	39072	12
1	1/2	6	39055	39061	39067	39073	6

CARBIDE type

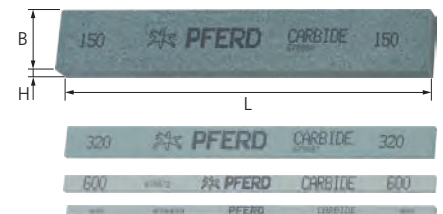
The CARBIDE type soft grinding and polishing stones enable high removal rates without loading on hard materials in tool and die-making.

Workpiece materials:

High-temperature-resistant materials, tungsten carbide, steel materials with a hardness over 580 HV (54 HRC)

Type:

Vitrified bond, green silicon carbide



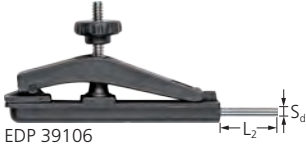
B [Inches]	H [Inches]	L [Inches]	Grit size and EDP number					
			150	220	320	400	600	
Square								
5/32	5/32	6	39074	39080	39086	39092	39098	12
1/4	1/8	6	39075	39081	39087	39093	39099	12
	1/4	6	39076	39082	39088	39094	39100	12
1/2	1/8	6	39077	39083	39089	39095	39101	12
	1/4	6	39078	39084	39090	39096	39102	12
1	1/2	6	39079	39085	39091	39097	39103	6

TOOL MANUAL 23 at-a-glance

Holders for grinding and polishing stones



EDP 39104
EDP 39105



EDP 39106

Holders for grinding and polishing stones

EDP 39104:

Can accommodate two different cross sections.

EDP 39105:

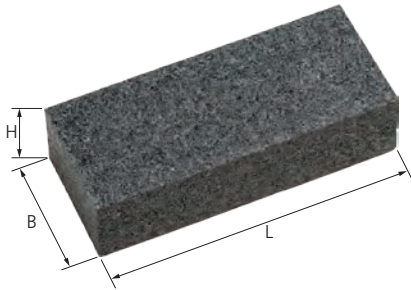
Can accommodate four different cross sections.

EDP 39106:

The arbor for the manual filing machine features stepless adjustment to accommodate all grinding and polishing stones.

Matching cross sections	EDP number	
For manual applications		
1/4" x 1/4", 1/4" x 1/2"	39104	1
1/4" x 1/8", 1/2" x 1/16", 1/2" x 1/8"	39105	1
Manual filing machine shank diameter of 1/8" x 3/4" [S_d x L₂]		
all grinding and polishing stones	39106	1

Dressing stones



Dressing stones

Dressing stone, small, fine, EDP 39012:

Small dressing stone with finer grain for profiling and dressing of smaller mounted points.

Dressing stone, medium, coarse, EDP 39010:

This medium-large dressing stone in coarser grit (grit 30) is ideal for coarse dressing work. Their anti-slip rubber backing provides a firm grip and protects the support surfaces.

Dressing stone, 2-sided, EDP 39011:

Dressing stone with two different grit sizes:

- Upper side (coarse): Profiling and dressing of large mounted points with coarse bonds and grain
- Underside (fine): Profiling and dressing of mounted points with fine bonds and grain

Dressing stone, large, coarse, EDP 39015:

This large dressing stone in coarser grit (grit 30) is ideal for profiling and dressing larger and coarser mounted points.

Description	L x B x H [Inches]	Grit	EDP number	
Small dressing stones – fine	2-3/4 x 7/8 x 1/2	46	39012	5
Medium dressing stones – coarse	4-3/4 x 2 x 1-1/4	30	39010	5
Medium dressing stones – 2-sided	4-3/4 x 2 x 1-1/4	30-60	39011	5
Large dressing stones – coarse	6 x 1 x 1	30	39015	5



COMBICLICK® quick-mounting system backing pads

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

Advantages:

- The geometry of the cooling slots significantly reduces the thermal load.
- High productivity due to minimized disc change times.

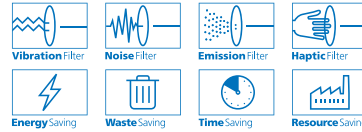
Recommendations for use:


- CC-H-GT backing pads is mainly used to work on stainless steel (INOX). It features very high edge strength, which enables a higher contact pressure.

Safety notes:

- The maximum approved peripheral speed is 15,800 SFPM.

PFERDVALUE®:



Disc diameter [Inches]	Thread	Hardness	EDP number	Max. RPM	
4-1/2 and 5	5/8-11	hard	69478	13,300	1

Fibre discs backing pads

Backing pads for fibre discs

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

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.



High-performance Temperature-resistant

Compatible with these disc dia. [Inches]	Thread size [Inches]	Backing density	EDP number	Compatible clamping nut	Max. RPM	
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High-performance backing pads

4-1/2	5/8-11	Hard (H)	69481	42071	13,300	1
5	5/8-11	Hard (H)	69484	42071	12,200	1
7	5/8-11	Hard (H)	69487	42071	8,500	1

Temperature-resistant backing pads

4-1/2	5/8-11	Flexible (F)	69480	42071	13,300	1
		Hard (H)	69482	42071	13,300	1
5	5/8-11	Flexible (F)	69483	42071	12,200	1
		Hard (H)	69485	42071	12,200	1
7	5/8-11	Flexible (F)	69486	42071	8,500	1
		Hard (H)	69488	42071	8,500	1

TOOL MANUAL 23 at-a-glance

Velcro-backed abrasive discs

Velcro-backed abrasive discs in the NET type feature a netting fabric, to which the abrasive grain is bonded with a high-performance bond system, which makes it very durable.

The range comprises two diameters that have been adapted to the most common power tools, with a comprehensive choice of grain sizes, from 80 to 1,000 grit.

Advantages:

- Very long service life and high stock removal rate.
- Very fine, even surfaces can be achieved.
- Dust-free work due to good extraction capability.
- No loading due to netting structure.
- Durable netting structure with high tear strength and edge stability.

Workpiece materials:

- Aluminum
- Additional non-ferrous metals
- Stainless steel (INOX)
- Wood
- Plastics
- Steel, cast steel

Compatible power tools:

- Eccentric orbital sanders

Safety notes:



Applications:

- Roughing
- Surface grinding
- Cleaning
- Step-by-step fine grinding



Net type



Aluminum oxide A


For dust-free, universal grinding work on medium-sized and large surfaces.

Abrasive:

Aluminum oxide A

Recommendations for use:

- Use the extraction connection on the machine to effectively remove the grinding dust.

D ₁ [Inches]	Grit and EDP number											
	80	100	120	150	180	240	320	400	600	800	1000	
5	47520	47521	47522	47523	47524	47525	47526	47527	47528	47529	47530	25
6	47531	47532	47533	47534	47535	47536	47537	47538	47539	47540	47541	25



Aluminum oxide A compact grain

Extremely well suited for fine and very fine grinding, and for step-by-step preparations for polishing.

The self-sharpening compact grain facilitates a very long service life and achieves consistent surface quality levels throughout the entire service life.

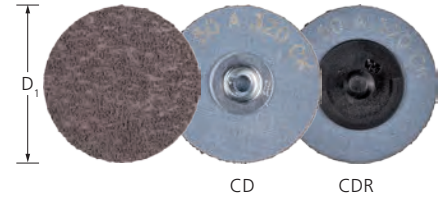
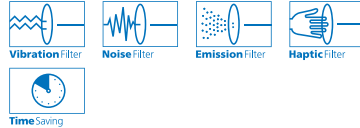
Abrasive:




Aluminum oxide A compact grain (CK)

Ordering notes:

- Please order backing pad separately. See TOOL MANUAL 23 for more information.

PFERDVALUE®:



D ₁ [Inches]	Grit and EDP number									Opt. RPM	
	120	180	240	320	400	600	800	1000	1200		
CD system 											
2	42936	42937	42938	42939	42940	42941	42942	42943	42944	3,800–13,000	100
3	42945	42946	42947	42948	42949	42950	42951	42952	42953	2,500–9,000	50
CDR system 											
2	42954	42955	42956	42957	42958	42959	42960	42961	42962	3,800–13,000	100
3	42963	42964	42965	42966	42967	42968	42969	42970	42971	2,500–9,000	50

POLICLEAN® PLUS discs

For coarse cleaning work such as removing paint, scale, heat discoloration, rust and adhesive residues in face-down grinding.

POLICLEAN® PLUS discs exhibit a higher stock removal rate with a very long service life.

Applications:

roughing, surface work, cleaning

Abrasive:

Aluminum oxide A

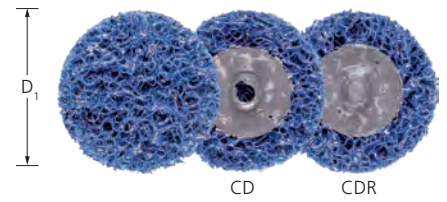
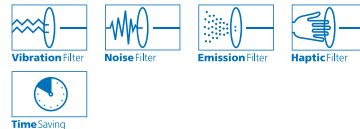
Recommendations for use:




- Use with hard or medium-hard COMBIDISC® abrasive disc holders.

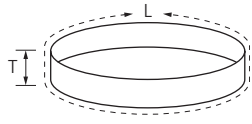
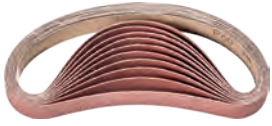
Ordering notes:

- Please order backing pad separately. See TOOL MANUAL 23 for more information.

PFERDVALUE®:




D ₁ [Inches]	EDP number	Opt. RPM	
CD system 			
2	44840	5,500–8,000	10
3	44841	3,800–5,000	10
CDR system 			
2	44842	5,500–8,000	10
3	44843	3,800–5,000	10

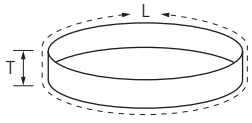
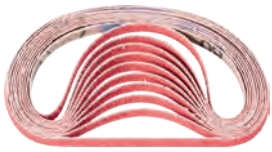


Aluminum oxide A

For universal applications from coarse to fine grinding.

Abrasive:
Aluminum oxide A


L [Inches]	T [Inches]	Grit and EDP number				
		36	60	80	120	
12	1/4	48960	-	-	-	50
24	3/4	49077	49078	49079	49080	50

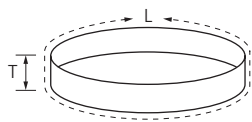
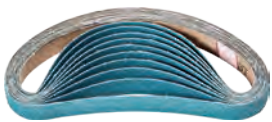


Ceramic oxide CO-COOL

For aggressive grinding with the highest stock removal rates 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


L [Inches]	T [Inches]	Grit and EDP number				
		40	60	80	120	
12	1/4	49492	49493	49494	49495	50
	1/2	-	-	-	49533	50
18	1/4	-	-	-	49501	50
	1/2	-	-	-	49540	50
	3/4	-	-	-	49564	50
24	1/4	-	-	-	49508	50
	1/2	-	-	-	49547	50
	3/4	-	-	-	49726	50



Zirconia alumina Z

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

Abrasive:
Zirconia alumina Z

L [Inches]	T [Inches]	Grit and EDP number				
		36	60	80	120	
12	1/4	49682	49683	49684	49685	50
	1/2	-	-	-	49727	50
18	1/4	-	-	-	49722	50
	1/2	-	-	-	49731	50
	3/4	-	-	-	49745	50
24	1/4	-	-	-	49706	50
	1/2	-	-	-	49752	50
	3/4	49754	49755	49756	49757	50

Felt polishing belt

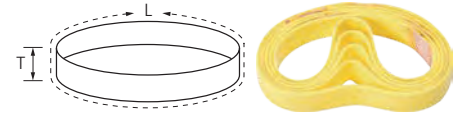
Ideal for use on tubular constructions and rails.


Recommendations for use:

- Apply pre-polishing and high-gloss polishing successively during polishing process.
- When changing the polishing paste, also replace the polishing belt so no contaminants are included from previous step.
- For the best results, use at a recommended speed of 1,000–3,000 SFPM.

Accessories:

- Grinding and polishing pastes



L [Inches]	T [Inches]	EDP number	
15-1/2	3-1/2	43659	5

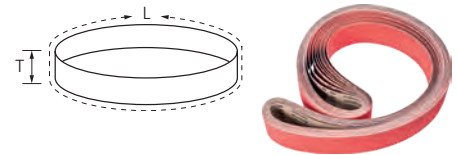
Benchstand belts


Ceramic oxide CO-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:

Ceramic oxide CO-COOL



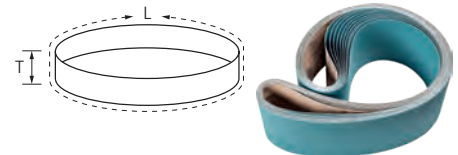
L [Inches]	T [Inches]	Grit and EDP number		
		120		
36	4	49662	10	
48	2	49592	10	
	6	49676	10	
60	2	49599	10	
	2-1/2	49620	10	

Zirconia alumina Z

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

Abrasive:

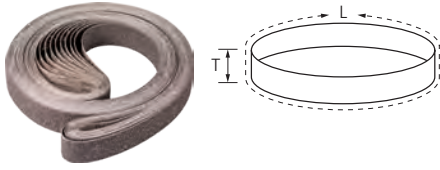
Zirconia alumina Z



L [Inches]	T [Inches]	Grit and EDP number		
		60		
60	2	49795	10	

TOOL MANUAL 23 at-a-glance

Backstand belts




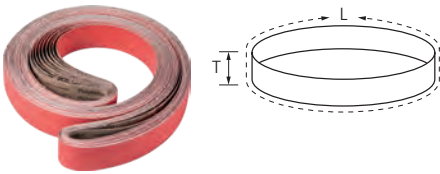
Aluminum oxide A compact grain

Ideal for fine and very fine grinding, and for step-by-step preparations for polishing. The self-sharpening compact grain facilitates a very long service life and achieves consistent surface quality levels.

Abrasive:

Aluminum oxide A compact grain (CK)

L [Inches]	T [Inches]	Grit and EDP number				
		120	240	400	600	
132	2	49810	49811	49812	49813	10




Ceramic oxide CO-COOL

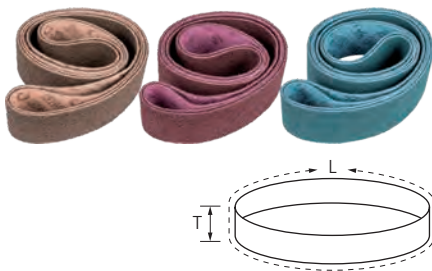
For coarse grinding work with a high stock removal rate and cool grinding. Active grinding additives in the coating substantially improve the stock removal rate, prevent loading and result in cooler grinding.

Abrasive:

Ceramic oxide CO-COOL

L [Inches]	T [Inches]	Grit and EDP number				
		40	60	80	120	
132	2	49687	49688	49689	49690	10

POLIVLIES® surface conditioning belts



POLIVLIES® surface conditioning belts


Ideal for universal work on metal surfaces in stationary applications, e.g. removal of rough grinding traces, removal of oxidation and light deburring work. Achieve matte and satin-finished surfaces.

Abrasive:

Aluminum oxide A
Available POLIVLIES® grit sizes:
100 C = coarse (yellow-brown)
180 M = medium (red-brown)
240 F = fine (blue)

Recommendations for use:

■ For the best results, use at a recommended speed of 1,000–3,000 SFPM.

L [Inches]	T [Inches]	Grit, type and EDP number			
		100 C	180 M	240 F	
24	3/4	43666	43667	43668	10
36	4	43660	43661	43662	10
48	2	43672	43673	43674	10
	6	43681	43682	43683	10
60	2	43678	43679	43680	10
	2-1/2	43675	43676	43677	10
		2	43669	43670	43671

Mandrel

Small mandrel designed to grip POLINOX® hand pad non-woven material.

Applications:

- Used to reach tight internal diameters.

Recommendations for use:

- Grips a 1 inch wide strip of non-woven material cut to length.



L [Inches]	S [Inches]	EDP number	Max. RPM	
7/8	1/4	44837	14,000	1

Non-woven shop rolls

Aluminum oxide A

Ideal for very fine grinding on small to large surfaces and contours, and for manually cleaning metal and painted surfaces. Achieve matte and satin-finished surfaces. Highly open structure.

Advantages:

- Highly flexible, enabling optimal adjustment to the contour.
- Hard-to-reach areas can be accessed.
- Can be used for wet and dry grinding.

Abrasive:

Aluminum oxide A

Recommendations for use:

- Cut to the necessary size if required.



Length [Yards]	T [Inches]	Abrasives	Grit and EDP number				
			80				
10	4	A	43515				1

Abrasive cord

High flexibility abrasive cord

Ideal for very fine deburring and finishing work in hard-to-reach places.

Recommended for work on very small holes, grooves and cut-outs in tool and die making.

Explanation of the abbreviations:

D = Abrasive cord diameter

Abrasive:

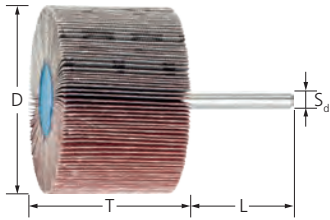
Aluminum oxide A
Silicon carbide SiC



D [Inches]	Length [Yards]	Abrasives	Grit and EDP number				
			120	150	180	200	
0.02	16	SiC	-	-	-	49900	1
0.03	16	A	-	-	-	49901	1
0.04	16	A	-	-	49902	-	1
0.06	16	A	-	49903	-	-	1
0.07	16	A	-	-	49904	-	1
0.08	16	A	49905	-	-	-	1

TOOL MANUAL 23 at-a-glance

Mounted flap wheels



Aluminum oxide A

For universal applications from coarse to fine grinding.

Abrasive:
Aluminum oxide A

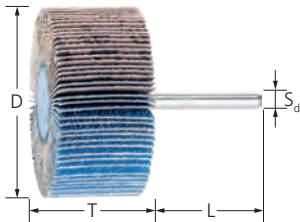
PFERDVALUE®:



D [Inches]	T [Inches]	Grit and EDP number				Opt. RPM	Max. RPM	
		40						

Shank dia. 1/4" x 1-1/2" [$S_d \times L$]

1-1/2	1/2	45244				9,600	23,000	10
2-1/2	1/2	45305				6,300	23,000	10
	1-1/2	45306				6,300	13,000	10
3	1/2	45220				4,800	20,000	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

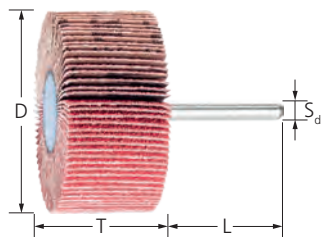
PFERDVALUE®:



D [Inches]	T [Inches]	Grit and EDP number			Opt. RPM	Max. RPM	
		60	80	120			

Shank dia. 1/4" x 1-1/2" [$S_d \times L$]

2-1/2	1-1/2	45488	45489	45490	6,300	13,000	10
	1/2	45497	45498	45499			
3	1/2	45497	45498	45499	4,800	20,000	10



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

PFERDVALUE®:



D [Inches]	T [Inches]	Grit and EDP number				Opt. RPM	Max. RPM	
		40	60	80	120			

Shank dia. 1/4" x 1-1/2" [$S_d \times L$]

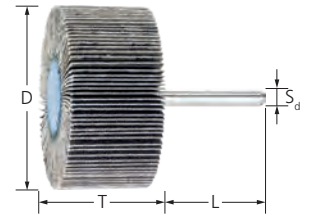
2-1/2	1	45434	45435	45436	45437	7,000	23,000	10
	1-1/2	45443	45444	45445	45446			
3	1/2	45456	45457	45458	45459	4,800	20,000	10


Silicon carbide SiC

For universal grinding work on components made from aluminum, copper, bronze, titanium and fibre-reinforced plastics. Recommended for use on titanium alloys. Ideally suited to use in the aeronautical industry, especially where SiC is the only approved abrasive, e.g. for use on engine components.

Abrasive:
Silicon carbide SiC

PFERDVALUE®:



D [Inches]	T [Inches]	Grit and EDP number			Opt. RPM	Max. RPM	
		60	80	120			
Shank dia. 1/4" x 1-1/2" [S_d x L]							
1	1/2	45415	45416	45417	15,000	25,000	10
2	1/2	45426	45427	45428	7,000	23,000	10
3	1/2	45429	45438	45439	4,800	20,000	10

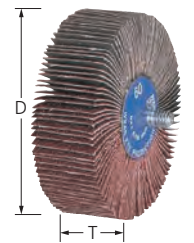
Quick-change flap wheels


Aluminum oxide A

This flap wheel spins on and off without the use of tools. Unique design prevents shaft from pulling out of core while maintaining perfect balance at operating speed. Each package contains 1 shank adapter with 1/4-20 thread.

Abrasive:
Aluminum oxide A

PFERDVALUE®:



D [Inches]	T [Inches]	Thread	Grit and EDP number				Opt. RPM	Max. RPM	
			40						
1	1	1/4-20	45316				15,000	25,000	10
1-1/2	1	1/4-20	45318				9,600	23,000	10
3	1/2	1/4-20	45317				4,800	20,000	10

Unmounted flap wheels

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.

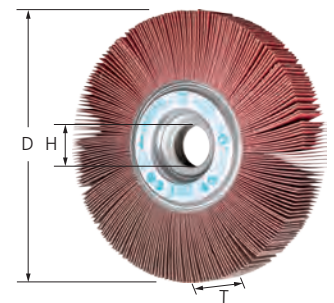
Abrasive:
Ceramic oxide CO-COOL


Compatible power tools:
flexible shaft drive, straight grinder

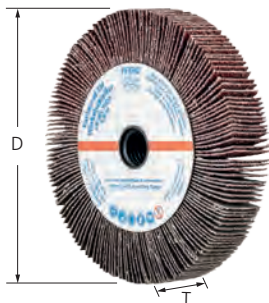
Ordering notes:

- Please order the matching arbor separately.
- Matching arbor for a diameter of 6":
EDP 45714

PFERDVALUE®:



D [Inches]	T [Inches]	H [Inches]	Grit and EDP number				Opt. RPM	Max. RPM	
			40	60	80	120			
6	1	1	45840	45841	45842	45843	3,500	6,300	2
	2	1	45844	45845	45846	45847	3,500	6,300	2



Aluminum oxide A

The ideal flap wheel for use on angle grinders in assembly shop operations. For universal applications from coarse to fine grinding.

Advantages:

- Can be mounted directly on the angle grinder without additional clamping devices.

Abrasive:

Aluminum oxide A

Recommendations for use:

- For the best results, use at a recommended peripheral speed of 7,900–9,800 SFPM.

Compatible power tools:


angle grinder, cordless angle grinder

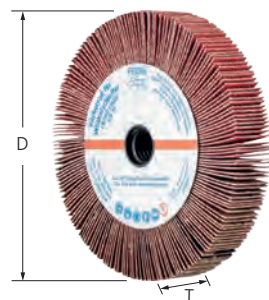
Safety notes:

- As a rule, unmounted flap wheels should be used with the appropriate clamping flanges for the angle grinder.

PFERDVALUE®:



D [Inches]	T [Inches]	Thread	Grit and EDP number			Opt. RPM	Max. RPM	
			180	240	320			
4-1/2	3/4	5/8-11	45757	45758	45759	7,500	13,300	2
5	3/4	5/8-11	45767	45768	45769	6,850	12,200	2



Ceramic oxide CO-COOL

The ideal flap wheel for use on angle grinders in assembly shop operations. 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.

Advantages:

- Can be mounted directly on the angle grinder without additional clamping devices.

Abrasive:

Ceramic oxide CO-COOL

Recommendations for use:

- For the best results, use at a recommended peripheral speed of 7,900–9,800 SFPM.

Compatible power tools:


angle grinder, cordless angle grinder

Safety notes:

- As a rule, unmounted flap wheels should be used with the appropriate clamping flanges for the angle grinder.

PFERDVALUE®:



D [Inches]	T [Inches]	Thread	Grit and EDP number				Opt. RPM	Max. RPM	
			40	60	80	120			
4-1/2	5/8	5/8-11	45740	45741	45742	45743	7,500	13,300	2
5	5/8	5/8-11	45744	45745	45746	45747	6,850	12,200	2

POLINOX® unitized wheels

Ideal for work on smaller surfaces.

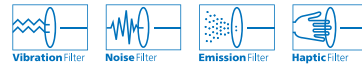
Abrasive:

Aluminum oxide A
Silicon carbide SiC

PFERD designation:

PNER

PFERDVALUE®:



D [Inches]	T [Inches]	H [Inches]	Abrasive	Grit size	Hardness	Spec.	EDP number	Opt. RPM	Max. RPM	Compatible arbors	
3	1/8	1/4	A	coarse	W	2AM	48247	6,400	10,200	69029	5
			A	fine	MH	6AF	48248	6,400	10,200	69029	5
			A	coarse	H	8AC	48249	6,400	10,200	69029	5
			SiC	fine	W	2SF	48245	6,400	10,200	69029	5
			SiC	fine	MW	3SF	48246	6,400	10,200	69029	5

Unitized wheels for straight grinders, flexible shaft machines, and bench grinders

POLINOX® convolute wheels

POLINOX® convolute wheels

Varied application options, for example:

- Rounding of edges
- Fine grinding of implants
- Weld dressing of intersections on turbine blades
- Removal of processing traces on surgical instruments
- Create matte surface finishes.

Abrasive:

■ Aluminum oxide A
■ Silicon carbide SiC

PFERD designation:

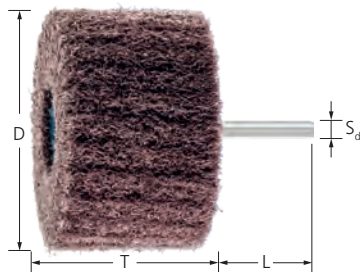
PNK

PFERDVALUE®:



D [Inches]	T [Inches]	H [Inches]	Abrasive	Grit size	Hardness	Spec.	EDP number	Opt. RPM	Max. RPM	
6	1/2	1	SiC	fine	EH	10SF	48222	2,500	5,100	1
		1	A	coarse	W	5AM	48199	2,500	5,100	1
	1	1	SiC	fine	EH	10SF	48223	2,500	5,100	1
8	1/2	3	SiC	fine	EH	10SF	48224	1,900	3,850	1
		1	A	coarse	W	5AM	48220	1,900	3,850	1
		1	3	SiC	fine	EH	10SF	48225	1,900	3,850
	2	3	A	coarse	W	5AM	48221	1,900	3,850	1
		3	SiC	fine	EH	10SF	48226	1,900	3,850	1





Radial construction

Made of radially arranged flaps of non-woven abrasive material. A long service life is achieved through the dense packing of the flaps.

This flap wheel is recommended for surface work.


Abrasive:
Aluminum oxide A

Compatible power tools:
flexible shaft drive, straight grinder

PFERD designation:
PNL

PFERDVALUE®:



D [Inches]	T [Inches]	S _d [Inches]	L [Inches]	Grit and EDP number			Opt. RPM	Max. RPM	
				100	180	280			
1	1	1/4	1-1/2	46198	46199	46200	10,000	20,000	10



Interleaved construction

The non-woven abrasive material is arranged in multiple radial flaps, with abrasive cloth interlayers.

This flap structure facilitates improved stock removal and achieves a coarser surface finish.


Abrasive:
Aluminum oxide A

Compatible power tools:
flexible shaft drive, straight grinder

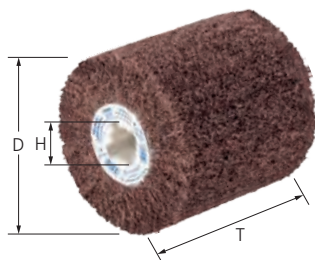
PFERD designation:
PNZ

PFERDVALUE®:



D [Inches]	T [Inches]	S _d [Inches]	L [Inches]	Grit and EDP number		Opt. RPM	Max. RPM	
				100	180			
1	1	1/4	1-1/2	46196	46197	10,000	20,000	10

POLINOX® finishing drums



Radial construction


Made of radially arranged flaps of non-woven abrasive material. A long service life is achieved through the dense packing of the flaps.

Abrasive:
Aluminum oxide A

PFERD designation:
PNL

PFERDVALUE®:



D [Inches]	T [Inches]	Bore/ Thread [Inches]	Grit and EDP number		Opt. RPM	Max. RPM	
			80				
4	4	3/4	43102		2,500	4,800	1

Radial construction

Non-woven abrasive flaps with a fibreglass backer, for face-down finishing work. Densely-stacked flaps for long service life.

The disc is designed for working on large surfaces with variable-speed angle grinders.

Abrasive:

Aluminum oxide A

PFERD designation:

PNL

Compatible power tools:

angle grinder, cordless angle grinder

PFERDVALUE®:



Ordering notes:

T = thickness



D [Inches]	T [Inches]	H [Inches]	Grit and EDP number			Opt. RPM	Max. RPM	
			100	180	280			
4-1/2	3/4	7/8	45891	45892	45893	2,500	5,300	5
5	3/4	7/8	45894	45895	45896	2,300	3,800	5

Interleaved construction

Interleaved abrasive and non-woven flaps with a fibreglass backer for face-down finishing work. Densely-stacked flaps for long service life and increased stock removal.

The disc is designed for working on large surfaces with variable-speed angle grinders.

Abrasive:

Aluminum oxide A

PFERD designation:

PNZ

Compatible power tools:

angle grinder, cordless angle grinder

PFERDVALUE®:



Ordering notes:

T = thickness



D [Inches]	T [Inches]	H [Inches]	Grit and EDP number		Opt. RPM	Max. RPM	
			100	180			
4-1/2	3/4	7/8	45911	45912	2,500	5,300	5
5	3/4	7/8	45915	45916	2,300	3,800	5

High-strength masking tape

High-strength masking tape

Used to create a clear separation between different grinding patterns in adjacent areas. The masking tape protects surfaces which have already been worked on, or which are not supposed to be worked on.

Advantages:

- 2" width: Reusable and extremely high durability.
- High edge stability.

Recommendations for use:

- 3/4" width: Use only during finish machining with soft, flexible products, e.g. non-woven products.
- To avoid its inadvertent removal, ensure that the masking tape is only applied in the running direction of the tool.

Workpiece materials:

aluminum, stainless steel (INOX)



L [Feet]	T [Inches]	EDP number	
10	2	43001	1



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:

Coated abrasive flaps: Ceramic oxide CO-COOL

Non-woven material: Aluminum oxide A

Available POLIVLIES® grit sizes:

100 C = coarse (yellow-brown)

180 M = medium (red-brown)


240 F = fine (blue)

Recommendations for use:

■ For the best results, use at a recommended peripheral speed of 6,000–6,900 SFPM

PFERD designation:

PVZ

D [Inches]	T [Inches]	H [Inches]	Grit, type and EDP number			Opt. RPM	Max. RPM	
			CO-COOL 60 / A 100 C	CO-COOL 80 / A 180 M	CO-COOL 120 / A 240 F			
Plain arbor hole								
4-1/2	3/4	7/8	43297	43298	43299	5,000–5,800	13,300	5
5	3/4	7/8	43300	43301	43302	4,600–5,300	12,200	5
Threaded hub								
4-1/2	3/4	5/8-11	43309	43310	43311	5,000–5,800	13,300	5
5	3/4	5/8-11	43312	43313	43314	4,600–5,300	12,200	5

POLIVLIES® hook and loop disc holders




POLIVLIES® hook and loop disc holders

Backing pads for POLIVLIES® hook and loop discs.

Advantages:

- Increased economic efficiency as the discs can be changed quickly.
- Enables surface finishing without visible transitions.

- Centering pin enables faster central clamping.

D [Inches]	Thread [Inches]	EDP number	Max. RPM	
With centering pin				
4-1/2	5/8-11	43407	5,300	1
5	5/8-11	43408	4,850	1
7	5/8-11	43409	3,500	1



POLICLEAN® PLUS is a coarsely structured, abrasive, non-woven cleaning fabric that was developed from a special combination of synthetic fibres and abrasive grain.

The comprehensive range of POLICLEAN® PLUS products contain:

- POLICLEAN® PLUS wheels
- POLICLEAN® PLUS mounted wheels
- COMBIDISC® POLICLEAN® PLUS discs (see COMBIDISC® discs, page 33)
- POLICLEAN® PLUS discs

Advantages:

- High flexibility and open structure mean ideal adaptation to contours and no loading of the product itself.
- The POLICLEAN® PLUS material exhibits considerably higher stock removal rates with a long service life, and is also very aggressive.

Workpiece materials:

- Can be used on nearly all materials.

Applications:

- Roughing
- Surface work
- Cleaning
- Removing heat discolouration
- Removing paint
- Derusting
- Descaling
- Removing oxidation

Abrasive:

- Aluminum oxide A

Recommendations for use:

- For best performance, use with a recommended peripheral speed of 3,000–4,000 SFPM. This provides an ideal compromise between stock removal rate, surface quality, thermal load on the workpiece and product wear.

Safety notes:

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



POLICLEAN® PLUS wheels

For coarse cleaning work such as removing paint, scale, heat discolouration, rust and adhesive residues in peripheral grinding.

POLICLEAN® PLUS discs exhibit a higher stock removal rate with a very long service life.

Recommendations for use:

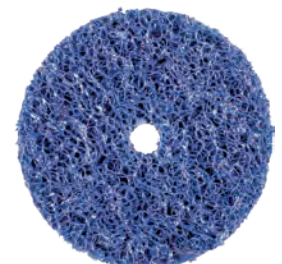
- For work on larger surfaces, pack several POLICLEAN® PLUS wheels with the appropriate arbor.


Compatible power tools:

flexible shaft drive, power drill, straight grinder

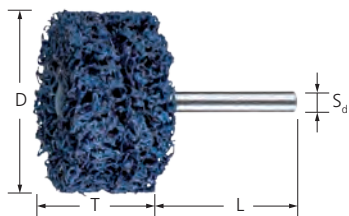
Ordering notes:

- Please order the matching arbor separately.



D [Inches]	T [Inches]	H [Inches]	EDP number	Opt. RPM	Max. RPM	
3	1/2	1/4	44790	4,000–5,100	10,000	6
4	1/2	1/2	44791	3,000–3,800	7,500	4
6	1/2	1/2	44792	2,000–2,500	5,100	4

* See TOOL MANUAL 23 for additional information and compatible accessories.




POLICLEAN® PLUS mounted wheels

For coarse cleaning work such as removing paint, scale, heat discoloration, rust and adhesive residues in peripheral grinding.



Compatible power tools:
flexible shaft drive, power drill, straight grinder

D [Inches]	T [Inches]	S _d [Inches]	L [Inches]	EDP number	Opt. RPM	Max. RPM	
2	1/2	1/4	1-1/2	44884	6,000–7,000	15,000	5
	1	1/4	1-1/2	44885	6,000–7,000	15,000	5
3	1/2	1/4	1-1/2	44886	4,000–5,100	10,000	5
	1	1/4	1-1/2	44887	4,000–5,100	10,000	5
4	1/2	1/4	1-1/2	44888	3,000–3,800	7,500	5



POLICLEAN® PLUS discs

The non-woven cleaning material is glued to a fiberglass backer. This makes POLICLEAN® PLUS discs ideal for use in face-down grinding.

For coarse cleaning work such as removing paint, scale, heat discoloration, rust and adhesive residues.

POLICLEAN® PLUS discs exhibit a high stock removal rate with a very long service life.




Recommendations for use:

- Preferably for use on slow-running angle grinders.
- For the best results, use at a recommended peripheral speed of 6,000–6,900 SFPM.

Compatible power tools:
angle grinder, cordless angle grinder

Ordering notes:
T = thickness

D [Inches]	T [Inches]	H [Inches]	EDP number	Opt. RPM	Max. RPM	
Plain arbor hole						
4-1/2	1/2	7/8	44874	5,000–7,000	10,000	5
5	1/2	7/8	44875	5,000–7,000	10,000	5
Threaded hub						
4-1/2	1/2	5/8-11	44879	5,000–7,000	10,000	5
5	1/2	5/8-11	44880	5,000–7,000	10,000	5

Poliflex® wheels with the textile (TX) bond are manufactured with standard aluminium oxide. The textile fabric inlays make the TX bond a very hard, sturdy bond. Recommended for use on edges.

Advantages:

- For achieving a fine, matte surface finish.
- High profitability due to high abrasive performance and long service life.

Abrasive:

- Aluminum oxide A

Applications:

- Step-by-step fine grinding
- Surface grinding
- Weld removal
- Blending
- Deburring
- Edge grinding

Compatible power tools:

- Angle grinder
- Cordless angle grinder

Recommendations for use:

- Poliflex® textile wheels grind and finish in one operation.

Safety notes:

- For safety reasons, the specified maximum permitted rotational speed must never be exceeded.
- Poliflex® textile wheels perform best at a recommended peripheral speed of 6,000– 9,800 SFPM.



Textile wheels

TX INOX + ALU

Textile wheels are cotton-fibre based abrasive products developed for medium to light grinding, weld blending, deburring and surface finishing of stainless steel and aluminum. Textile wheels grind and finish in one operation.

Workpiece materials:

stainless steel (INOX), aluminum

Applications:

surface grinding, weld removal, blending, deburring and edge grinding

Abrasive:

Aluminum oxide A


PFERD designation:

TX

Ordering notes:

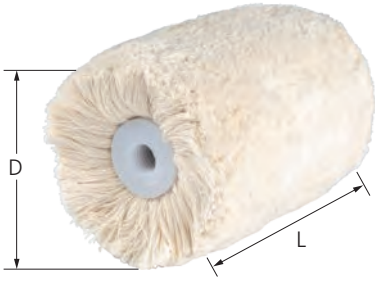
U = thickness



D [Inches]	U [Inches]	H [Inches]	Grit and EDP number		Max. RPM	
			36	54		
Depressed centre (type 27) – plain arbor hole						
4-1/2	1/4	7/8	61433	61434	13,300	10
Depressed centre (type 27) – threaded arbor hole						
4-1/2	1/4	5/8-11	61442	61443	13,300	10

TOOL MANUAL 23 at-a-glance

Buffing drum



Buffing drum

Buffing drum is made from densely packed soft cotton yarn and is used for high-gloss polishing with polishing pastes. Numerous string ends hold buffing compounds and high pliability enables finishes on irregular surfaces.

Advantages:

- Extremely flexible for polishing contours.
- Quickly achieves a polished surface.

Recommendations for use:


- Use a sufficient amount of polishing paste to achieve a polished finish.

Compatible power tools:

drum grinder

Ordering notes:

- Additional drum products can be found in TOOL MANUAL 23.
- Refer to our "Power tools" catalogue section 9 for information on the linear finishing tool, EDP 91217.

D [Inches]	L [Inches]	Thread [Inches]	EDP number	Opt. RPM	Max. RPM	
4	4	5/8-11	48842	3,500	3,500	1



Diamond polishing pastes are used for work on hard materials, such as tungsten carbide and hardened steels. They are used in combination with felt polishing elements.
 Diamond polishing pastes can be diluted and dissolved with water and alcohol.

Available grit sizes:
 30 (coarse) = P 500
 15 (medium) = P 1200
 10 (medium-fine) = P 2000
 7 (fine) = P 3000
 3 (very fine) = P 5000
 1 (ultra-fine) = P 14000
 (P = Grit size according to ISO 6344)

Advantages:

- High productivity.
- Quick results.
- Precisely coordinated granulation rows.

Workpiece materials:

- Can be used on almost all hard materials, such as tungsten carbide and hardened steels.

Applications:

- Polishing
- Step-by-step fine grinding

Ordering notes:

- The grit sizes are specified in μm .




Diamond polishing pastes

Diamond polishing pastes guarantee quick and efficient work, particularly in tool and die making.

Recommendations for use:

- When using diamond polishing pastes, use the coarse paste first.
- If extensive surface improvements are required, use several grit sizes one after another, each finer than the previous, cleaning well between pastes.
- When changing grit size, make sure that a new, clean polishing product (e.g. felt point or felt wheel) is used.



Grit size [μm]	EDP number	Contents		Colour of sealing cap	
		[oz]	[grams]		
30	48799	0.35	10	brown	1
15	48798	0.35	10	blue	1
10	48797	0.35	10	light blue	1
7	48796	0.35	10	red	1
3	48795	0.35	10	green	1
1	48794	0.35	10	yellow	1

TOOL MANUAL 23 at-a-glance

Cleaning products



Highly effective cleaners and maintenance products that can be applied to a very wide range of components.

Workpiece materials:

- Can be used on nearly all materials.

Applications:

- Cleaning
- Preserving
- Protecting



Universal cleaner


Highly effective, universal workshop cleaner for cleaning and de-greasing components as a preparation for painting. Removes polishing paste residue, processing oils, corrosion-protection oils, light waxes and other types of contamination.

Advantages:

- Biodegradable surfactants.
- Short drying time.
- Non-combustible.
- Appropriate for multi-purpose use.

Recommendations for use:

- Spray, briefly leave on, and wipe off with a cloth.

Contents		EDP number	
[fl oz]	[ml]		
16.9	500	48747	1



INOX SHINER maintenance product


Maintenance product for protecting and caring for stainless steel (INOX), aluminum, non-ferrous metals, glass and plastic. Removes dust, fingerprints, oil and light scale deposits.

Advantages:

- Leaves a dry, glossy protective film.
- Very easy to use.
- No cleaning marks.
- Appropriate for multi-purpose use.

Recommendations for use:

- Spray, apply evenly on the surface with a soft dry cloth or paper towel and wipe dry.
- Conduct a compatibility test beforehand on surfaces with a mirror finish.

Contents		EDP number	
[fl oz]	[ml]		
16.9	500	48748	1

With the BOSCH X-LOCK system for angle grinders, you can change discs quickly and comfortably. Instead of a round centre hole, the X-LOCK system features an X-shaped contour, which allows the disc to be fixed on the angle grinder in a form-fitting manner. This guarantees that different discs can be mounted securely and comfortably in the shortest possible time. The unique system meets the highest quality and safety standards and even withstands tough and challenging operating conditions.



Advantages:

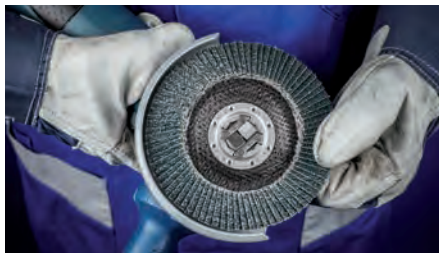
- Quick and comfortable disc changes.
- Discs are fixed securely since they audibly click into place.
- X-LOCK products can also be used on conventional angle grinders with 5/8-11 thread.

Recommendations for use:

- Place the disc on the X-LOCK quick-change system of your angle grinder and secure it by lightly pressing it down. The disc will audibly click into place.



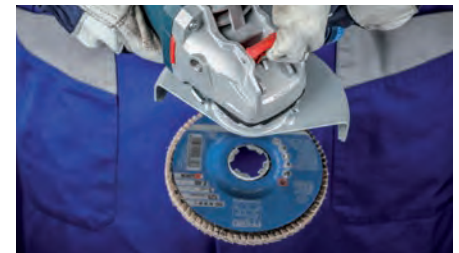
How it works:



Place the disc on the X-LOCK holder in a form-fitting manner.



Lightly press the disc down until it audibly clicks into place.



Release the disc by using the lever.

POLIVLIES® with X-LOCK quick-change system

Aluminum oxide A

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

Abrasive:

Aluminum oxide A

Available POLIVLIES® grit sizes:

- 100 C = coarse (yellow-brown)
- 180 M = medium (red-brown)
- 240 F = fine (blue)

Recommendations for use:

- For the best results, use at a recommended peripheral speed of 6,000–6,900 SFPM.

Notes:

- For more information on POLIVLIES® flap discs, refer to TOOL MANUAL 23.



D [Inches]	T [Inches]	H [Inches]	Grit, type and EDP number			Opt. RPM	Max. RPM	
			100 C	180 M	240 F			
X-LOCK								
4-1/2	3/4	X-LOCK (7/8)	43303	43304	43305	5,000–5,800	13,300	5
5	3/4	X-LOCK (7/8)	43306	43307	43308	4,600–5,300	12,200	5



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:

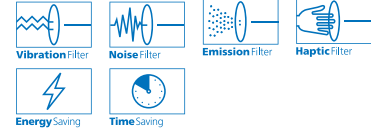
Aluminum oxide A


Technical information:

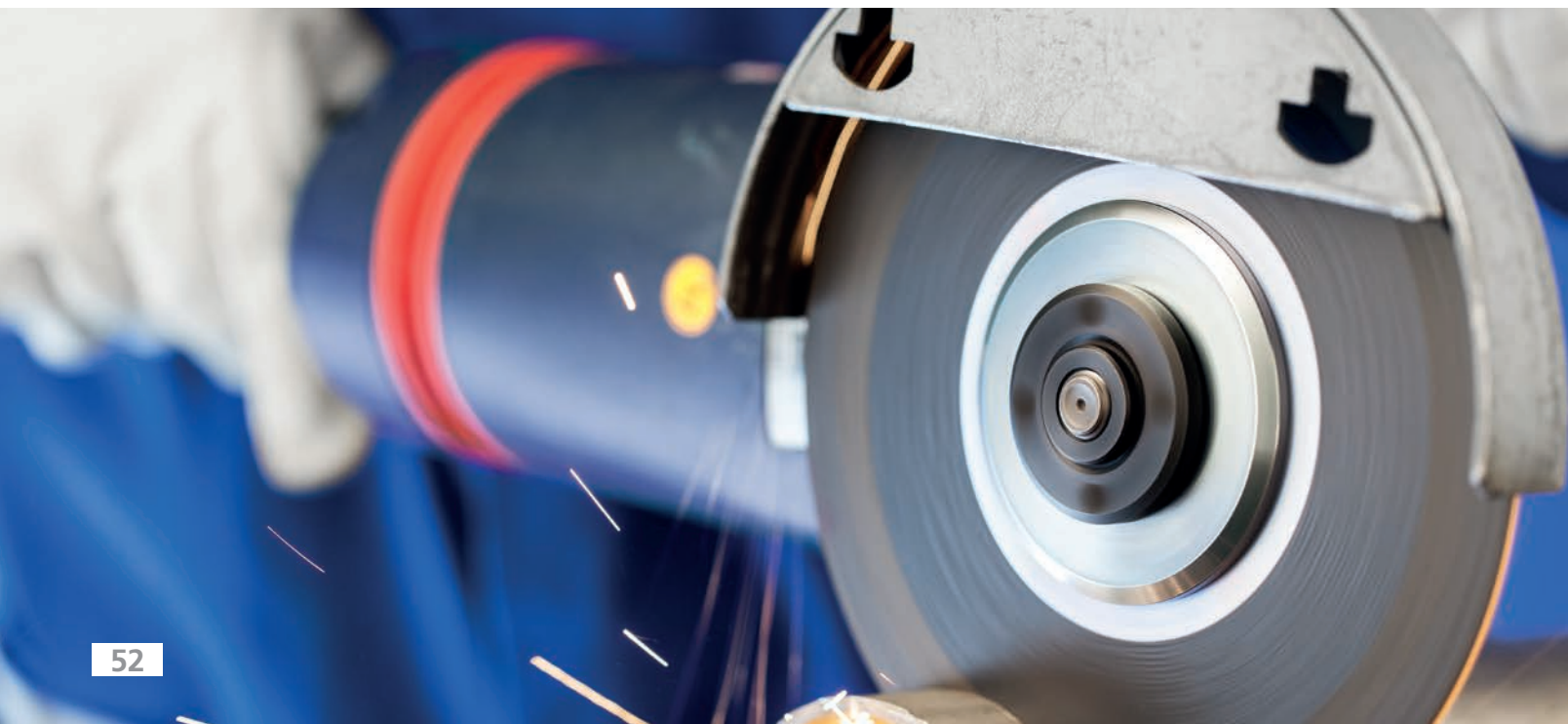
A 46 P

PFERDVALUE®:

Thin cut-off wheels:



D [Inches]	T/U [Inches]	H [Inches]	EDP number	Max. RPM	
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



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:

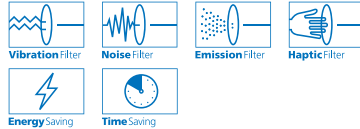
Aluminum oxide A


Technical information:

A 46 P

PFERDVALUE®:

Thin cut-off wheels:



D [Inches]	T/U [Inches]	H [Inches]	EDP number	Max. RPM	
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



**SG INOX ★★★★★**

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

Advantages:

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

Workpiece materials:

stainless steel (INOX)

Applications:

cutting sheet metal, cutting hollow sections, cutting solid materials

Abrasive:

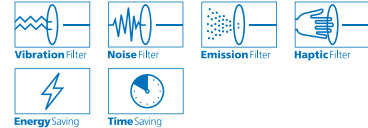
High-performance aluminum oxide A

Technical information:

A 46 R

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	.030	7/8	63641	13,300	25
	.040	7/8	63642	13,300	25
	.045	7/8	63643	13,300	25
5	.030	7/8	63645	12,200	25
	.040	7/8	63646	12,200	25
	.045	7/8	63647	12,200	25
6	.045	7/8	63649	10,200	25
7	.045	7/8	63650	8,500	25
	3/32	7/8	63651	8,500	25
9	.065	7/8	63653	6,600	25
	3/32	7/8	63654	6,600	25
Depressed centre (type 27/42) – plain arbor hole 					
4-1/2	.045	7/8	63713	13,300	25
	3/32	7/8	63644	13,300	25
5	.045	7/8	63714	12,200	25
	3/32	7/8	63648	12,200	25
7	3/32	7/8	63652	8,500	25
9	3/32	7/8	63655	6,600	25
Depressed centre (type 27/42) – threaded arbor hole 					
4-1/2	.045	5/8-11	63711	13,300	10
	3/32	5/8-11	63707	13,300	10
5	.045	5/8-11	63712	12,200	10
	3/32	5/8-11	63708	12,200	10
7	3/32	5/8-11	63709	8,500	10
9	3/32	5/8-11	63710	6,600	10



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 ★★★★★

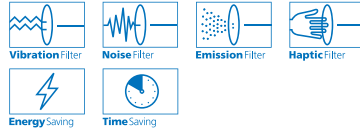
Workpiece materials:
steel


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

TOOL MANUAL 23 at-a-glance

Cut-off wheels for portable gas saws – Performance Line SG ★★★★★



SG STEEL ★★★★★

Fast-cutting cut-off wheel for use with portable gas saws featuring a very long service life.

Advantages:

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

Workpiece materials:

steel, cast iron

Applications:


cutting

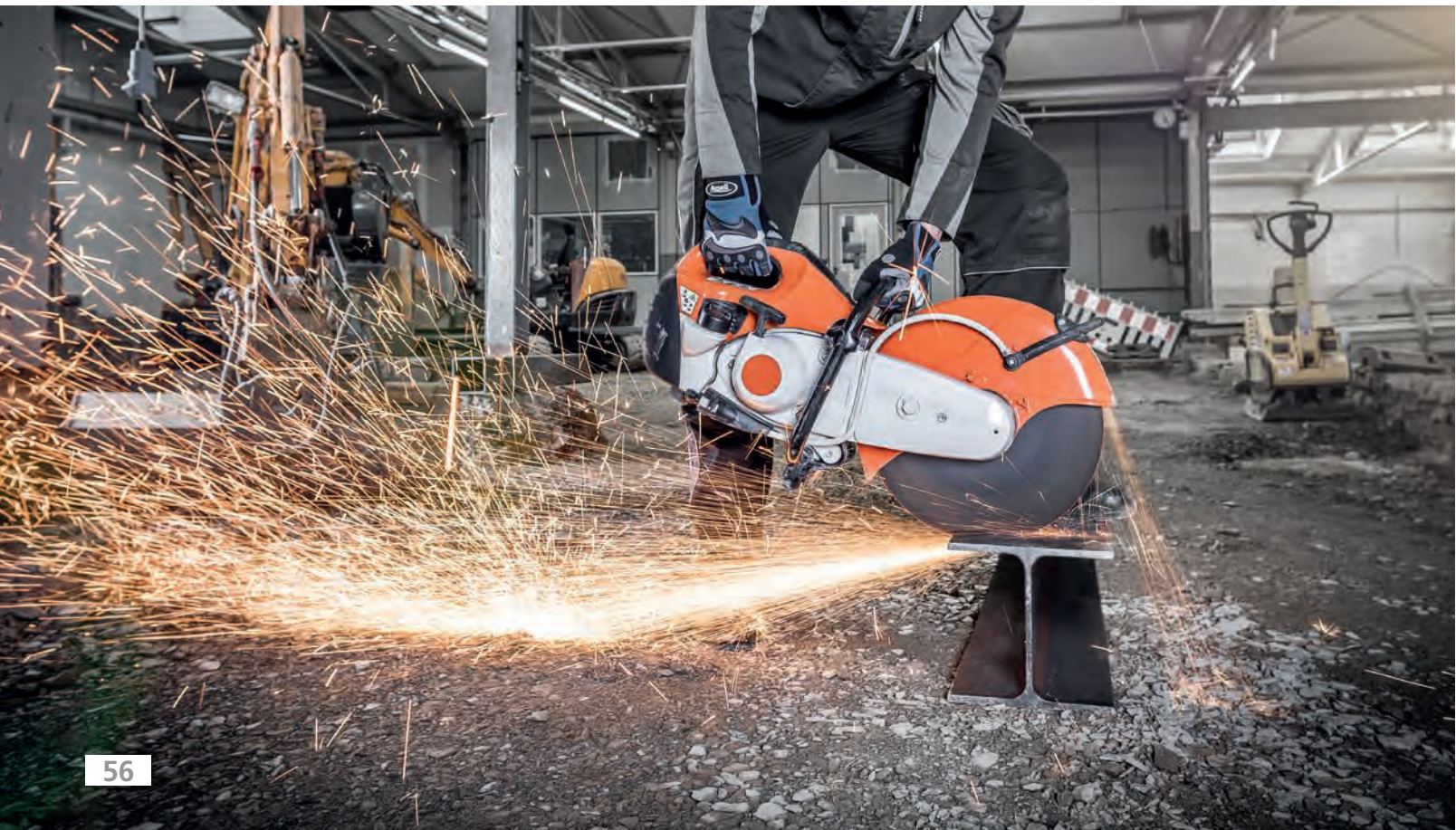
Abrasive:

Premium aluminum oxide A

Technical information:

A 24 S

D [Inches]	T [Inches]	H	EDP number	Max. RPM	
Flat (type 1/41) – plain arbor hole					
16	3/16	20mm	64020	4,800	10



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

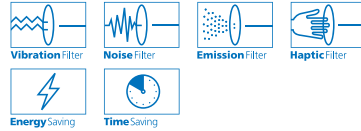
Abrasive:




Zirconia alumina Z

Recommendations for use:

- Also suitable for surface grinding on steel.

PFERDVALUE®:



D [Inches]	H [Inches]	Grit and EDP number		Max. RPM	
		40	60		
Conical (type 29, PFC) – plain arbor hole 					
6	7/8	62186	62189	10,200	10
Conical (type 29, PFC) – threaded arbor hole 					
6	5/8-11	62286	62289	10,200	10



TOOL MANUAL 23 at-a-glance

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



CO-FREEZE SG INOX ★★★★★

POLIFAN® flap disc designed for stainless steel (INOX) with ultra-cool grinding. Due to the ceramic oxide CO with cooling topsizing (FREEZE), there is no heat discoloration – no reworking is required.

Advantages:

- The FREEZE topsizing significantly reduces heat build-up in the workpiece compared with standard flap discs.
- Reduced labour time and increased economic efficiency due to the aggressive stock removal rate.
- Maximum aggressiveness over the entire service life.
- Fewer wheel changes due to the excellent service life.
- Sparks are minimized. Damage to stainless steel workpieces from sparks is almost entirely eliminated.

Workpiece materials:

stainless steel (INOX), nickel-based alloys

Applications:

surface grinding, weld dressing

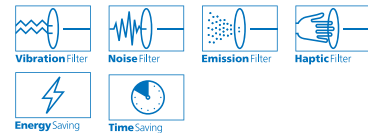
Abrasive:

Ceramic oxide CO with extreme cooling topsizing (FREEZE)

Recommendations for use:

- During use, the flaps exhibit an unusual wear pattern after just a few seconds. Highly effective fillers form a shiny cooling film on the flaps (this should not be mistaken for “glazing”). This provides the basis for ultra-cool grinding.

PFERDVALUE®:



D [Inches]	H [Inches]	Grit and EDP number			Max. RPM	
		36	50	80		
Flat (type 27, PFF) – plain arbor hole						
4-1/2	7/8	60804	60805	60806	13,300	10
5	7/8	60807	60808	60809	12,200	10
Conical (type 29, PFC) – plain arbor hole						
4-1/2	7/8	60810	60811	60812	13,300	10
5	7/8	60813	60814	60815	12,200	10
7	7/8	60816	60817	-	8,500	10
Flat (type 27, PFF) – threaded arbor hole						
4-1/2	5/8-11	61082	61083	61084	13,300	10
5	5/8-11	61085	61086	61087	12,200	10
Conical (type 29, PFC) – threaded arbor hole						
4-1/2	5/8-11	61088	61089	61090	13,300	10
5	5/8-11	61091	61092	61093	12,200	10
7	5/8-11	61094	61095	-	8,500	10

CO-FREEZE SG INOX flap disc

FREEZE wear pattern: a shiny cooling film on the flaps (this should not be mistaken for “glazing”).

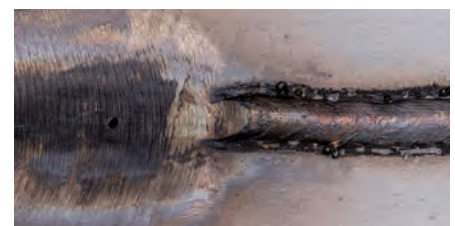


Optimum results: no discoloration due to low thermal load.



Flap disc with conventional abrasive material

Heat discoloration/oxidation due to high heat build-up. Secondary grinding operation is required to prevent the risk of corrosion.



CC-GRIND®-FLEX SG STEEL ★★★★★

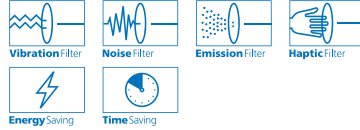
Workpiece materials:
 steel

Applications:
 weld dressing, surface grinding

- 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]	Grit size		Max. RPM	
		FINE	COARSE		
FLEX – plain arbor hole					
4-1/2	7/8	61186	61188	13,300	10
5	7/8	61190	61192	12,200	10



TOOL MANUAL 23 at-a-glance

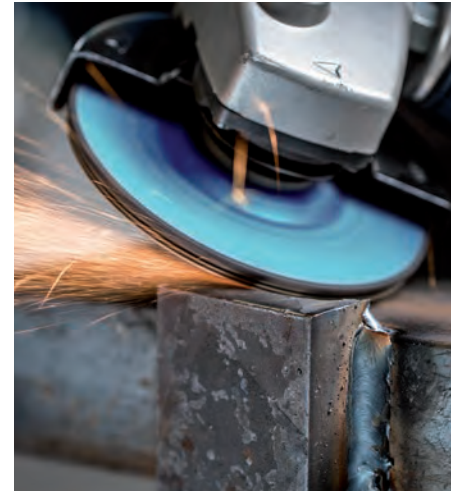
CC-GRIND® grinding discs – Performance Line SG ★★★★★

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.

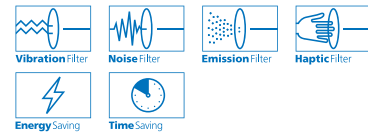





CC-GRIND®-STRONG SG STEEL ★★★★★

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



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:

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	61311	13,300	10
Depressed centre (type 27) – threaded arbor hole					
4-1/2	1/8	5/8-11	61312	13,300	10



TOOL MANUAL 23 at-a-glance

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 an 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.



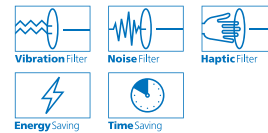
CERAMIC SG COMFORT STEEL ★★★★★


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



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

PFERDVALUE®:



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	60088	13,300	10
5	1/8	7/8	60089	12,200	10
6	1/8	7/8	60090	10,200	10
7	1/8	7/8	60091	8,500	10
9	1/8	7/8	60092	6,600	10
Depressed centre (type 27) – threaded arbor hole 					
4-1/2	1/8	5/8-11	60093	13,300	10
5	1/8	5/8-11	60094	12,200	10
6	1/8	5/8-11	60095	10,200	10
7	1/8	5/8-11	60096	8,500	10
9	1/8	5/8-11	60097	6,600	10



With the BOSCH X-LOCK system for angle grinders, you can change discs quickly and comfortably. Instead of a round centre hole, the X-LOCK system features an X-shaped contour, which allows the disc to be fixed on the angle grinder in a form-fitting manner. This guarantees that different discs can be mounted securely and comfortably in the shortest possible time. The unique system meets the highest quality and safety standards and even withstands tough and challenging operating conditions.

Advantages:

- Quick and comfortable disc changes.
- Discs are fixed securely since they audibly click into place.
- X-LOCK products can also be used on conventional angle grinders with 5/8-11 thread.

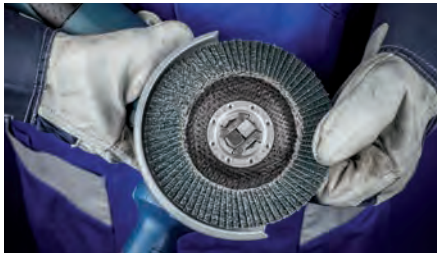
Recommendations for use:

- Place the disc on the X-LOCK quick-change system of your angle grinder and secure it by lightly pressing it down. The disc will audibly click into place.

X-LOCK
Technology by  **BOSCH**



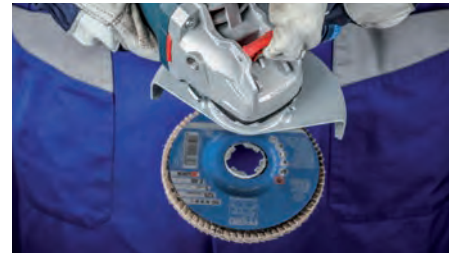
How it works:



Place the disc on the X-LOCK holder in a form-fitting manner.



Lightly press the disc down until it audibly clicks into place.



Release the disc by using the lever.



PSF STEELOX ★★☆☆

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

Advantages:

- Quick and comfortable disc changes.
- 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:

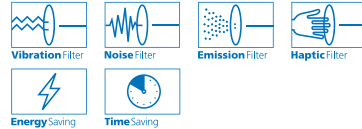
Aluminum oxide A




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)  X-LOCK					
4-1/2	.040	X-LOCK (7/8)	63735	13,300	25
	.045	X-LOCK (7/8)	63736	13,300	25
5	.040	X-LOCK (7/8)	63737	12,200	25
	.045	X-LOCK (7/8)	63738	12,200	25
Depressed centre (type 27/42)  X-LOCK					
4-1/2	.045	X-LOCK (7/8)	63743	13,300	25
	3/32	X-LOCK (7/8)	63739	13,300	25
5	.045	X-LOCK (7/8)	63744	12,200	25
	3/32	X-LOCK (7/8)	63740	12,200	25





SG STEELOX ★★★★★

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

Advantages:

- Quick and comfortable disc changes.
- Single solution for steel and stainless steel (INOX).
- Reduced cutting time.
- Maximum economic efficiency due to very long service life.

Workpiece materials:

steel, stainless steel (INOX)

Applications:

cutting sheet metal, cutting hollow sections, cutting solid materials

Abrasive:

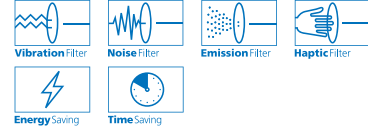
High-performance aluminum oxide A




Technical information:

A 46 R

PFERDVALUE®:

Thin cut-off wheels:



D [Inches]	T/U [Inches]	H [Inches]	EDP number	Max. RPM	
Flat (type 1/41)  X-LOCK					
4-1/2	.040	X-LOCK (7/8)	63751	13,300	25
	.045	X-LOCK (7/8)	63752	13,300	25
5	.040	X-LOCK (7/8)	63753	12,200	25
	.045	X-LOCK (7/8)	63754	12,200	25
Depressed centre (type 27/42)  X-LOCK					
4-1/2	.045	X-LOCK (7/8)	63745	13,300	25
	3/32	X-LOCK (7/8)	63755	13,300	25
5	.045	X-LOCK (7/8)	63746	12,200	25
	3/32	X-LOCK (7/8)	63756	12,200	25



Z PSF STEELOX ★★☆☆☆

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

Advantages:

- Quick and comfortable disc changes.
- 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)

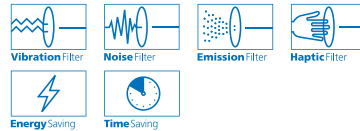
Applications:

surface grinding, weld dressing, blending, chamfering, deburring

Abrasive:

Zirconia alumina Z

PFERDVALUE®:



Z PSF EXTRA STEELOX ★★☆☆☆

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

Advantages:

- Quick and comfortable disc changes.
- 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)

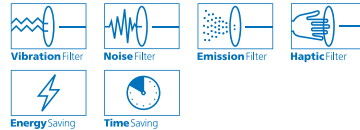
Applications:

surface grinding, weld dressing, blending, chamfering, deburring

Abrasive:

Zirconia alumina Z

PFERDVALUE®:



D [Inches]	H [Inches]	Grit and EDP number			Max. RPM	
		40	60	80		
Flat (type 27, PFF)						
4-1/2	X-LOCK (7/8)	60741	60742	60743	13,300	10
5	X-LOCK (7/8)	60744	60745	60746	12,200	10

TOOL MANUAL 23 at-a-glance

POLIFAN® flap discs with X-LOCK quick-change system



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:

- Quick and comfortable disc changes.
- 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

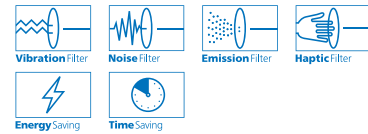
Abrasive:



Zirconia alumina Z

Recommendations for use:

- Also suitable for surface grinding on steel.

PFERDVALUE®:



D [Inches]	H [Inches]	Grit and EDP number			Max. RPM	
		40	60	80		
Conical (type 29, PFC)		 X-LOCK				
4-1/2	X-LOCK (7/8)	60775	60776	60777	13,300	10
5	X-LOCK (7/8)	60778	60779	60780	12,200	10

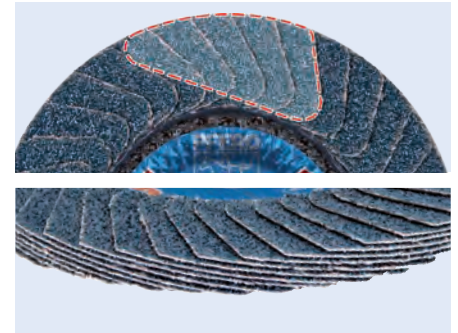


POLIFAN®-STRONG STEEL

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:

- Quick and comfortable disc changes.
- 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

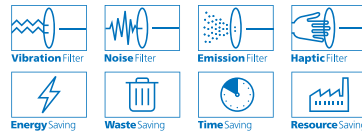
Abrasive:
Zirconia alumina Z

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.

PFERDVALUE®:



D [Inches]	H [Inches]	Grit and EDP number		Max. RPM	
		36	50		
Conical (type 29, PFC) X-LOCK					
4-1/2	X-LOCK (7/8)	60787	60788	13,300	10
5	X-LOCK (7/8)	60789	60790	12,200	10



TOOL MANUAL 23 at-a-glance

POLIFAN® flap discs with X-LOCK quick-change system

POLIFAN®-CURVE

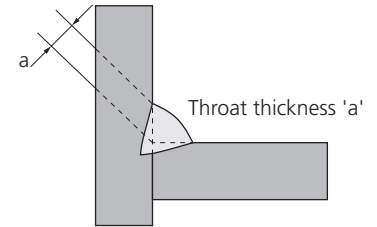
The patented flap disc POLIFAN®-CURVE has been specially developed for work on fillet welds. It is the only flap disc in the world that has flaps on both the grinding side and on the rear side, as well as on the radius.

Advantages:

- Quick and comfortable disc changes.
- 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: $7/16''$.
- Size L (large): For fillet weld radii $> 5/16''$ or throat thickness $> 1/4''$ with 90° joint, width at the radius: $9/16''$.



Z SGP CURVE STEELOX ★★★★★

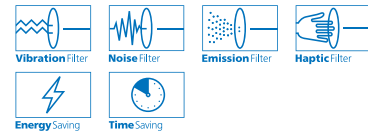
High-performance flap disc for maximum stock removal on steel and stainless steel (INOX).



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)		 X-LOCK				
4-1/2	X-LOCK (7/8)	67796	67797	40	13,300	10
5	X-LOCK (7/8)	67798	67799	40	12,200	10



PSF STEEL ★★☆☆☆

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

Advantages:

- Quick and comfortable disc changes.
- 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)  X-LOCK					
4-1/2	1/4	X-LOCK (7/8)	60171	13,300	10
5	1/4	X-LOCK (7/8)	60172	12,200	10

SG STEEL ★★☆☆☆

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

Advantages:

- Quick and comfortable disc changes.
- Reduced labour time and maximum economic efficiency due to the high stock removal rate.
- Fewer disc 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)  X-LOCK					
4-1/2	1/8	X-LOCK (7/8)	60181	13,300	10
	1/4	X-LOCK (7/8)	60182	13,300	10
5	1/8	X-LOCK (7/8)	60183	12,200	10
	1/4	X-LOCK (7/8)	60184	12,200	10



TOOL MANUAL 23 at-a-glance

Cut-off wheels for stationary applications – PSF, CHOPSAW ★★☆☆☆



PSF CHOP STEELOX ★★☆☆☆

General purpose K hardness wheel with a middle reinforcement layer. Aggressive free cutting of steel and stainless steel (INOX) with minimal burr formation.

Advantages:

- High productivity due to good service life.
- Reduced cutting time.
- Minimal burr formation due to low side friction.
- General purpose cutting work.

Workpiece materials:

steel, stainless steel (INOX)

Applications:

cutting of solid material, sections and pipes

Abrasive:

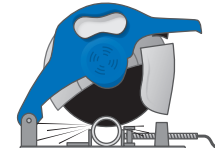
Aluminum oxide A

Technical information:

A 36 K

Compatible with:

CHOPSAW up to 5 horsepower



Safety notes:

- Use only on stationary machines with an output of up to 5 horsepower or less.

D [Inches]	T [Inches]	H [Inches]	EDP number	Max. RPM	
Maximum operating speed 80 m/s, flat type T (shape 41)					
12	3/32	1	64497	5,100	20
14	3/32	1	64498	4,400	10
16	1/8	1	64499	3,800	10

Cut-off wheels for stationary applications – SGP, HEAVY DUTY ★★★★★



ZIRKON SGP HD CAST + STEEL ★★★★★

R hardness wheel for the highest cutting work demands. Suitable for requirements of white cut and minimal burr formation.

Advantages:

- Maximum value due to extended service life.
- Increased productivity due to excellent cutting characteristics.

Workpiece materials:

cast iron, steel

Applications:

cutting of solid material, sections and pipes

Abrasive:

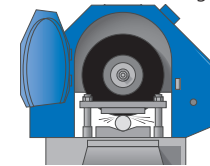
Zirconia alumina/aluminum oxide ZA

Technical information:

ZA 24 R

Compatible with:

HEAVY DUTY cutting machine



D [Inches]	T [Inches]	H [Inches]	EDP number	Max. RPM	
Maximum operating speed 100 m/s, flat type T (shape 41)					
24	1/4	2-3/8	66050	3,200	5

Narrow face

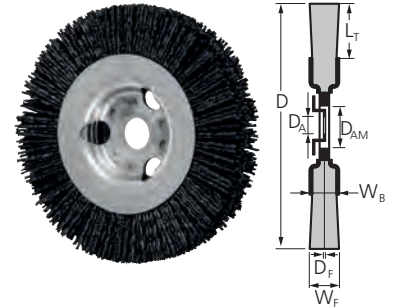
Designed for individual use in confined areas, or in assemblies mounted on a shaft. They are best suited for brushing uneven surfaces and areas inaccessible to wider brushes. Used for light to medium duty brushing action such as removal of light scale, dirt, rust, corrosion and light burrs.

Advantages:

- Highly flexible, enabling optimal adjustment to workpiece contours.
- Can be used with all common stationary drive systems and bench grinders.
- Can be gang-mounted for wide face use.

Ordering note:

- Please see TOOL MANUAL 23 for ANSI recommended arbor hole mounting requirements.
- For a complete listing of drive arbors and adapters, refer to TOOL MANUAL 23.



D [Inches]	D _{AM} [Inches]	L _T [Inches]	W _F [Inches]	W _B [Inches]	D _A [Inches]	D _F [Inches]/Grit size and EDP number			Opt. RPM	Max. RPM	Adapter style	
						.022/120	.040/120	.040/80				

M-BRAD® nylon abrasive filament, ceramic oxide CO

4	5/8	3/4	3/4	3/4	1/2	84226	84227	84225	3,000–5,000	12,500	D	2
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Drum brushes

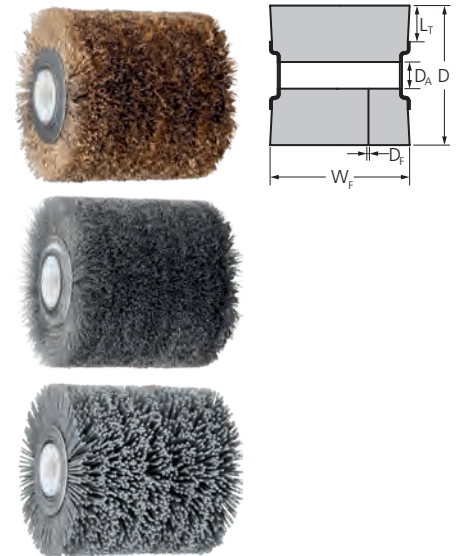
Excellent for surface structuring work on large surfaces. The high-density construction method used is designed for aggressive, heavy-duty brushing.

Advantages:

- Can be used on all common burnishing machines due to keyed arbor hole.

Ordering note

- For use with PFERD linear finishing machine, EDP 91217. See TOOL MANUAL 23 for more information.



D [Inches]	D _A [Inches]	L _T [Inches]	W _F [Inches]	D _F [Inches] and EDP number		Opt. RPM	Max. RPM	
				.008	.010			

Carbon steel wire, brass plated

4	3/4	1	4	-	81330	3,000–4,500	6,000	1
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Stainless steel wire (INOX)

4	3/4	1	4	81331	-	2,400–3,900	6,000	1
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D [Inches]	D _A [Inches]	L _T [Inches]	W _F [Inches]	D _F [Inches]/Grit size and EDP number		Opt. RPM	Max. RPM	
				.040/80				

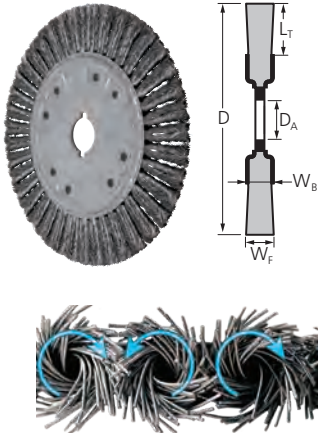
M-BRAD® nylon abrasive filament, silicon carbide SiC

4	3/4	1	4	81332	-	2,400–3,900	6,000	1
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For more information on other drum products and roller sets, please refer to catalogue section 4 of TOOL MANUAL 23.

TOOL MANUAL 23 at-a-glance

Unthreaded knot wheel brushes



Full cable twist, single row 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.

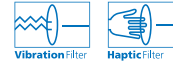
Recommendation for use:


- Designed for use on custom-built or industrial deburring/brushing machines.
- Ideal for gear deburring.

Ordering note:

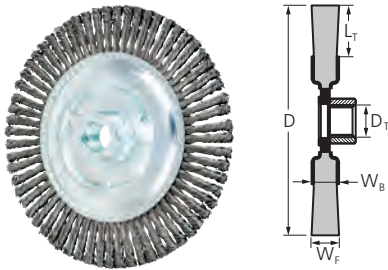
- Please see TOOL MANUAL 23 for ANSI recommended arbor hole mounting requirements.
- For a complete listing of drive arbors and adapters, refer to TOOL MANUAL 23.

PFERDVALUE®:



D [Inches]	D _A [Inches]	Knots [pcs.]	L _T [Inches]	W _F [Inches]	W _B [Inches]	Incl. keyway [Inches]	D _F [Inches] and EDP number	Opt. RPM	Max. RPM	Adapter style	
							.020				
Carbon steel wire											
14	2	80	2-1/4	3/4	3/4	1/2 x 1/4	82019	700–3,000	3,600	C	1

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		
Stainless steel wire (INOX)								
6-7/8	5/8-11	76	1-1/8	3/16	82728	3,500–9,000	9,000	10



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.

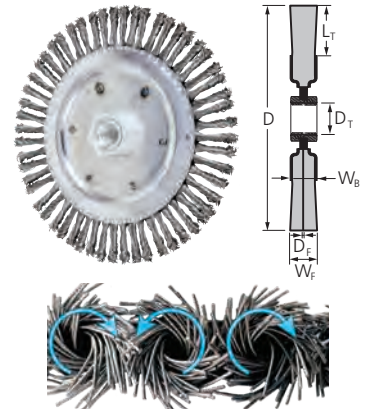
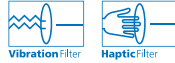
Advantages:


- 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
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Stainless steel wire (INOX)

All TWIN-NUT INOX brushes are degreased

6	5/8-11	56	1-1/8	3/16	88042	5,000–12,500	12,500	5
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Threaded bevel brushes

Crimped wire

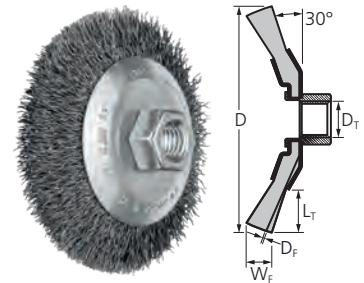
Ideal for brushing uneven surfaces. Used for light to medium duty brushing action such as removal of light scale, dirt, rust, corrosion and light burrs.


Advantages:

- Highly flexible, enabling optimal adjustment to workpiece contours.
- Ideal for cleaning narrow or hard-to-reach areas such as grooves, fillets, and inside edges.

Recommendations for use

- Designed for use on right angle grinders.



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

Carbon steel wire

4-1/2	5/8-11	1-1/8	1/2	82256	6,000–12,500	12,500	5
5	5/8-11	7/8	3/8	82257	6,000–11,000	11,000	5

Stainless steel wire (INOX)

4-1/2	5/8-11	1-1/8	1/2	82371	5,000–12,500	12,500	5
5	5/8-11	7/8	3/8	82372	5,000–11,000	11,000	5

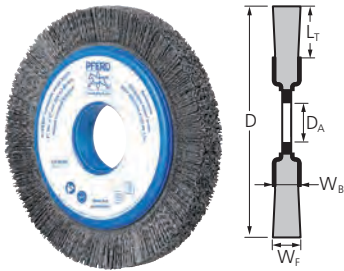
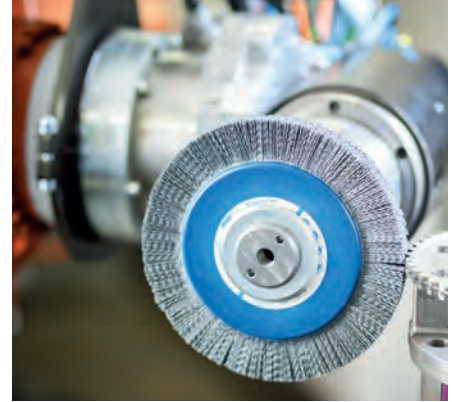
TOOL MANUAL 23 at-a-glance

Composite wheel brushes

Composite brushes from PFERD have been specifically developed for industrial, automated use. They are suitable for a variety of applications and their variable mounting options mean that they can be used on many different drive systems. This offers the advantage that the workpiece can be produced and finished on the same machine. As a result, labour-intensive, manual work is reduced and repeatable results are achieved with short cycle times.

The trim length on standard composite brushes makes them ideal for aggressive deburring and surface conditioning applications. For work pieces with contours or uneven surfaces, the FLEX style of composite brushes are recommended. The FLEX composite brush style is characterized by longer trim length and in many cases narrower face width. Our sales and technical advisers will be happy to assist or even visit your facility to determine proper application parameters for your requirements.

The application parameters for using composite brushes is influenced by many factors. Type of workpiece material, available machine, and required results all affect the application parameters. PFERD offers a wide range of products for various applications. Please visit our website at pferd.com, or call our customer service department for more information at 1-800-342-9015.



Composite wheels

M-BRAD® nylon abrasive filament makes this product ideal for aggressive deburring and other surface conditioning applications. Developed specially for industrial use on stationary machines.

Advantages:

- Long service life and aggressive brushing effect due to a very high filament density.
- Even distribution of fill material results in perfect balance, eliminating vibration.

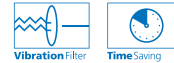
Recommendations for use


- Use ceramic oxide CO filament for fast, aggressive deburring.
- For better surface finish, the use of coolant is recommended.

Ordering note:

- Please refer to TOOL MANUAL 23 for ANSI recommended arbor hole mounting requirements.

PFERDVALUE®:



D [Inches]	D _A [Inches]	L _T [Inches]	W _F [Inches]	W _B [Inches]	Incl. keyway [Inches]	D _F [Inches]/Grit size and EDP number		Opt. RPM	Max. RPM	Adapter style	
						round crimped					
						.040/120	.040/80				

M-BRAD® nylon abrasive filament, ceramic oxide CO

8	2	1-1/4	1/2	1/2	1/2 x 1/4	84132	84127	900-1,500	3,600	C	1
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Composite wheels, FLEX type

Long-trim M-BRAD® nylon abrasive filament makes this product ideal for deburring complex geometries such as camshafts and gears. Developed specially for industrial use on stationary machines.

Advantages:

- Highly flexible, enabling optimal adjustment to workpiece contours.
- Long service life and aggressive brushing action due to a very high filament density.
- Even distribution of fill material results in perfect balance, eliminating vibration.

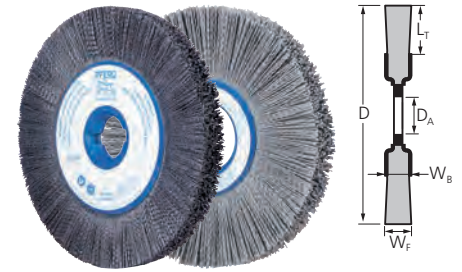
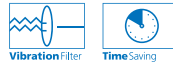
Recommendations for use


- Use ceramic oxide CO filament for fast, aggressive deburring.
- For better surface finish, the use of coolant is recommended.

Ordering note:

- Please refer to TOOL MANUAL 23 for ANSI recommended arbor hole mounting requirements.

PFERDVALUE®:



D [Inches]	D _A [Inches]	L _T [Inches]	W _F [Inches]	W _B [Inches]	Incl. keyway [Inches]	D _F [Inches]/Grit size and EDP number				Opt. RPM	Max. RPM	Adapter style	
						round crimped							
						.022/320	.022/120	.040/120	.040/80				

M-BRAD® nylon abrasive filament, silicon carbide SiC

12	2	2-3/8	1	1	1/2 x 1/4	84150	-	-	-	500-800	1,800	C	1
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M-BRAD® nylon abrasive filament, ceramic oxide CO

6	2	1-1/4	1/2	1/2	-	-	-	84119	84118	900-1,500	3,600	C	1
8	2	2-1/4	1/2	1/2	-	-	-	84126	84124	900-1,500	3,600	C	1
10	2	2-3/4	1/2	1/2	1/2 x 1/4	-	84138	84139	84133	900-1,500	3,600	C	1
12	2	2-3/8	1/2	1/2	1/2 x 1/4	-	-	84145	84144	500-800	1,800	C	1
14	2	3-1/2	1/2	1/2	1/2 x 1/4	-	-	84152	84151	500-800	1,800	C	1

Composite disc brushes

High density, bridled

M-BRAD® nylon abrasive filament makes this product ideal for aggressive deburring. Developed specially for industrial use on stationary machines.

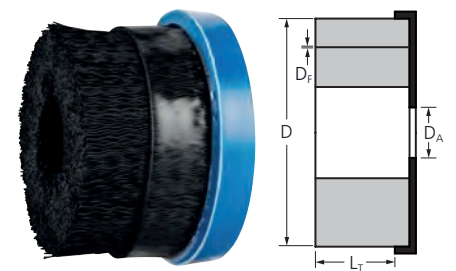
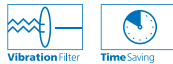
Advantages:

- Long service life and aggressive brushing effect due to a very high filament density.
- Even distribution of fill material results in perfect balance, eliminating vibration.
- Removable bridle reduces filament flare for consistently aggressive deburring action.

Ordering note:


- For compatible drive arbors, refer to TOOL MANUAL 23.

PFERDVALUE®:



Ordering note:

- Angled trim version for use in tight corners.

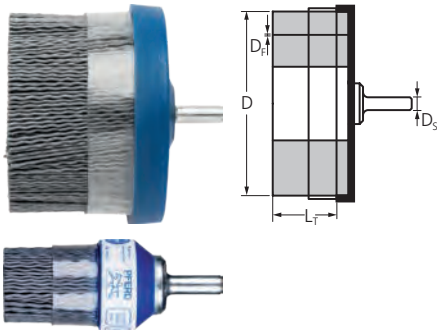
D [Inches]	D _A [Inches]	L _T [Inches]	D _F [Inches] and EDP number				Opt. RPM	Max. RPM	
			.016						

Nylon filament

4	7/8	1-1/2	84268				1,400-2,300	3,500	1
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Nylon filament, angled trim

6	7/8	1-1/2	84269				1,000-1,600	2,500	1
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Shank-mounted, bridled

M-BRAD® nylon abrasive filament makes this product particularly suitable for aggressive deburring. Developed for deburring and surface conditioning applications with limited access.

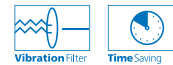
Advantages:


- Long service life and aggressive brushing effect due to a very high filament density.
- Even distribution of fill material results in perfect balance, eliminating vibration.

Recommendations for use

- Use ceramic oxide CO filament for fast, aggressive deburring.
- Use rectangular .045" x .090" filament for removal of larger burs.
- Removable bridle reduces filament flare for consistently aggressive deburring action.
- For better surface finish, the use of coolant is recommended.


PFERDVALUE®:



D [Inches]	D _s [Inches]	L _T [Inches]	D _f [Inches]/Grit size and EDP number				Opt. RPM	Max. RPM	
			round crimped		rectangular crimped				
			.022/120	.040/120	.040/80	.045x.090/80			

M-BRAD® nylon abrasive filament, ceramic oxide CO

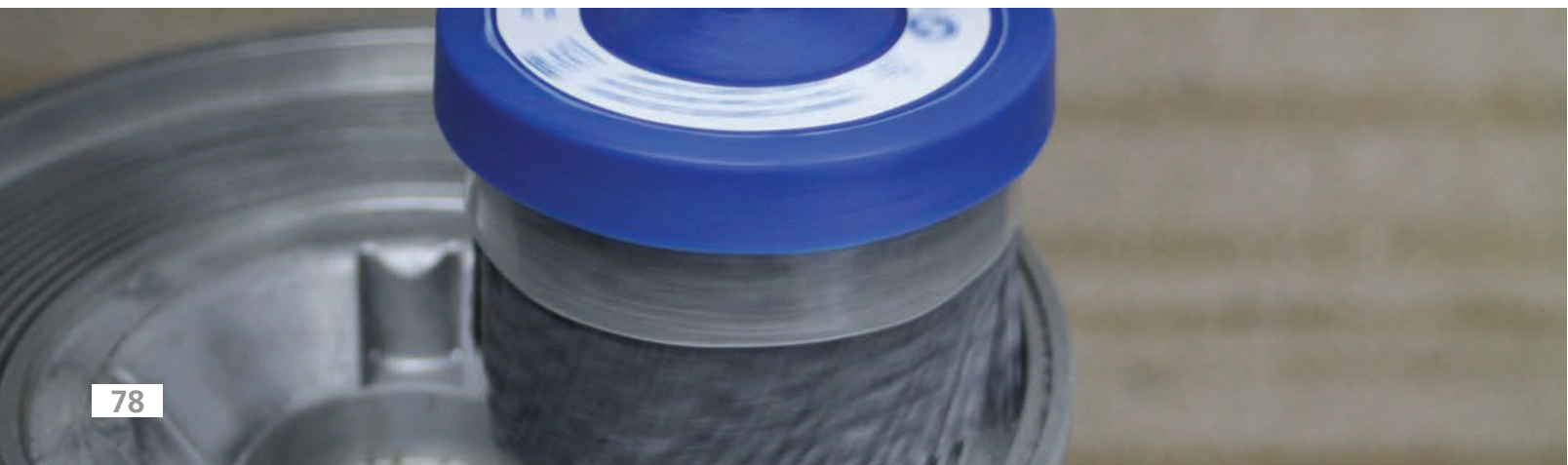
1	1/4	1	84244	84243	84242	84240	1,500–3,500	5,000	1
2	1/4	1-1/2	-	-	-	84245	1,500–3,500	5,000	1

D [Inches]	D _s [Inches]	L _T [Inches]	D _f [Inches] and EDP number				Opt. RPM	Max. RPM	
			.016						

Nylon filament

2	1/4	1-1/2	84267				1,500–3,500	5,000	1
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Use spindle extension, EDP 95826, for longer reach. See TOOL MANUAL 23 for more information.



Knot, flared cup

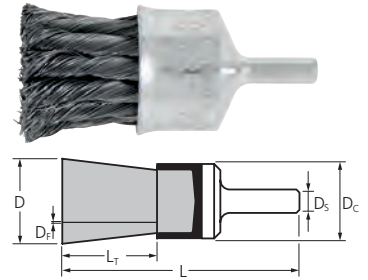
These brushes feature tightly twisted knots for low flex, high impact brushing action. Ideal for tough brushing applications. For weld cleaning, weld spatter removal, scale removal, cleaning, deburring, and flash removal.

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								

Carbon steel wire

1	1-1/8	1/4	1-3/8	12	80187	8,000–12,000	20,000	10
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Note: Please do not insert the entire stem of a brush into the chuck. Per ANSI B165.1-2013, 6.7: The shank shall be inserted into the chuck or collet as far as possible on the uniform diameter of the shank, with minimum possible overhang of the brush.

Stem mounted wheel brushes

Crimped

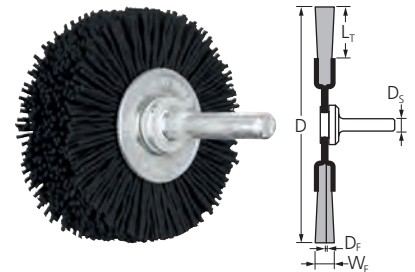
Designed for individual use in confined areas. They are best suited for brushing uneven surfaces and areas inaccessible to wider brushes. Used for light to medium duty brushing action such as removal of light scale, dirt, rust, corrosion and light burrs.

Advantages:

- Highly flexible, enabling optimal adjustment to workpiece contours.

Recommendations for use:

- Designed for use on straight grinders.



D [Inches]	D _s [Inches]	L _r [Inches]	W _f [Inches]	D _f [Inches]/Grit size and EDP number			Opt. RPM	Max. RPM	
				.022/120	.040/120	.040/80			

M-BRAD® nylon abrasive filament, ceramic oxide CO

2	1/4	1/2	1/4	84203	-	-	6,000–9,800	15,000	10
			5/8	84200	84201	84202	6,000–9,800	15,000	10
3	1/4	3/4	1/4	-	-	84208	4,800–7,800	12,000	10
			5/8	84205	84206	84207	4,800–7,800	12,000	10

Note: Please do not insert the entire stem of a brush into the chuck. Per ANSI B165.1-2013, 6.7: The shank shall be inserted into the chuck or collet as far as possible on the uniform diameter of the shank, with minimum possible overhang of the brush.





In addition to brushes with a stainless steel filament, PFERD also offers brushes of the INOX-TOTAL type for work on stainless steel (INOX). It is particularly well suited to use in critical environments.

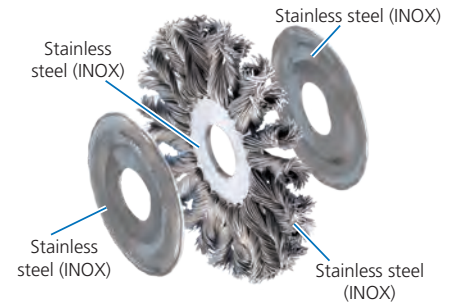
Advantages:

- Optimum protection against corrosion as all components are produced from stainless steel (INOX) in quality 302.

Industries:

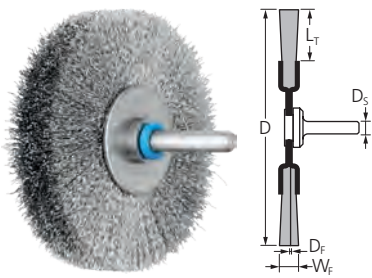
- Pharmaceutical and medical industries
- Foodstuff industry
- Nuclear industry

Structure of a wheel brush with arbor hole INOX-TOTAL



More PFERD products and many valuable recommendations for working with stainless steel (INOX) can be found in our PRAXIS brochure "PFERD tools for use on stainless steel (INOX)". Please contact us for further details.

Stem mounted wheel brushes



Crimped


Designed for use in confined areas. They are best suited for brushing uneven surfaces and areas inaccessible to wider brushes. Used for light to medium duty brushing action such as removal of light scale, dirt, rust, corrosion and light burs.

Advantages:

- Highly flexible, enabling optimal adjustment to workpiece contours.

Recommendations for use:

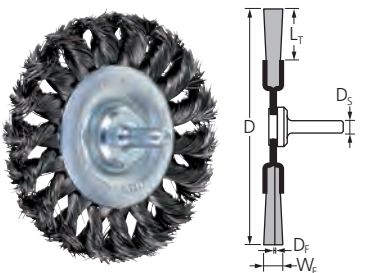
- Designed for use on straight grinders.

D [Inches]	D _s [Inches]	L _T [Inches]	W _F [Inches]	D _F [Inches] and EDP number	Opt. RPM	Max. RPM	
				.008			

Stainless steel wire (INOX)

All INOX-TOTAL brushes are degreased.

2	1/4	3/4	5/8	82744	6,000–9,000	12,000	10
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Knot, 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.

Advantages:

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

Safety notes:

- Please note: Brush stem diameter is 6 mm. Not for use in 1/4" collets.

D [Inches]	D _s [mm]	No. knots [pcs]	L _T [Inches]	W _F [Inches]	D _F [Inches] and EDP number	Opt. RPM	Max. RPM	
					.012			

Stainless steel wire (INOX)

All INOX-TOTAL brushes are degreased.

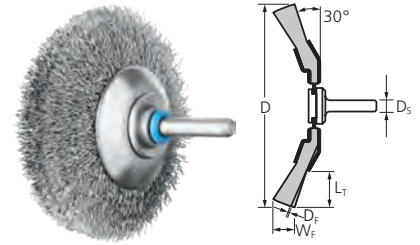
3	6	18	5/8	1/4	82743	10,000–16,000	25,000	10
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Crimped

Designed for use in confined areas. They are best suited for brushing uneven surfaces and areas inaccessible to wider brushes. Used for light to medium duty brushing action such as removal of light scale, dirt, rust, corrosion, and light burs.

Advantages:

- Highly flexible, enabling optimal adjustment to workpiece contours.



D [Inches]	D _s [Inches]	L _T [Inches]	W _F [Inches]	D _F [Inches] and EDP number	Opt. RPM	Max. RPM	
				.010			

Stainless steel wire (INOX)

All INOX-TOTAL brushes are degreased.

2-3/4	1/4	5/8	3/8	82745	6,000–9,000	12,000	10
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INOX-TOTAL – Unthreaded wheel brushes

COMBITWIST® knot

These brushes feature tightly twisted knots for low flex, high impact brushing action.

Full cable twist is ideal for tough brushing applications.

Stringer bead twist features most aggressive brushing action, perfect for heavy-duty brushing in pipeline and container construction.

For weld cleaning, weld spatter removal, scale removal, cleaning, deburring, and flash removal.

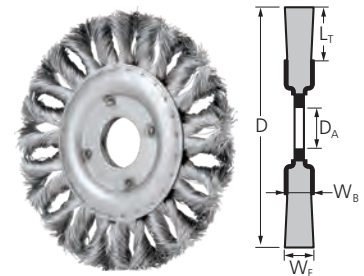
Advantages:

- 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 best results, use on high-power angle grinders.

PFERDVALUE®:



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

Stainless steel wire (INOX) – full cable twist

All INOX-TOTAL brushes are degreased.

4-1/2	7/8	24	7/8	1/2	82741	-	5,000–12,500	12,500	1
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Stainless steel wire (INOX) – stringer bead twist

All INOX-TOTAL brushes are degreased.

4-1/2	7/8	36	7/8	1/4	-	82742	5,000–12,500	12,500	1
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TOOL MANUAL 23 at-a-glance

Diamond coated wire brushes



Industrial grade diamond grit is electroplated onto knotted stainless steel wire strands. Designed for scale and surface contaminant removal on localized and hard-to-reach areas.

Advantages:

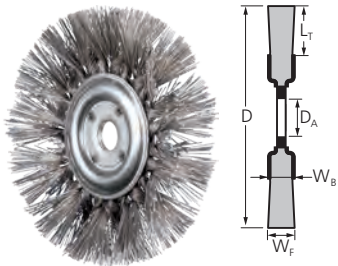
- Stainless steel (INOX) wire will not contaminate workpiece.
- All diamond coated wire brushes are degraded for contaminant-free use.

Applications:

- Heavy duty surface conditioning applications.
- Removing mill scale.
- Blending machining marks.
- Generating distinct scratch patterns.



Knot wheel brushes



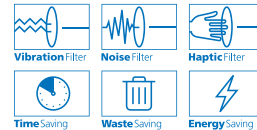
Standard twist

This brush features extended knot flag length, providing flexibility on uneven surfaces and complex geometries.

Advantages:

- Loosely-twisted knots cover a large surface area.
- Good balance between aggressiveness and flexibility.
- Designed for use on common bench grinders and stationary machines.

PFERDVALUE®:

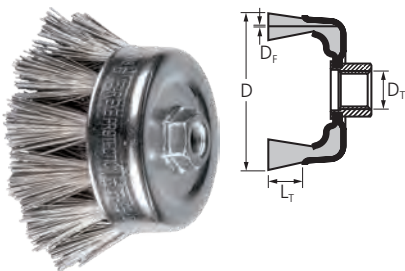


D [Inches]	D _A [Inches]	Knots [pcs.]	L _T [Inches]	D _F [Inches] .020, grit size and EDP number		Opt. RPM	Max. RPM	
				270 (coarse)	400 (fine)			

Stainless steel wire (INOX), Diamond (DIA)

7-1/2	1-1/4	24	2	84354	84355	1,000–2,000	8,000	1
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Knot cup brushes



Standard twist

This brush features extended knot flag length, providing flexibility on uneven surfaces and complex geometries.

Advantages:

- Loosely-twisted knots cover a large surface area.
- Good balance between aggressiveness and flexibility.
- Designed for use on variable speed right angle grinders.

D [Inches]	D _T [Inches]	Knots [pcs.]	L _T [Inches]	D _F [Inches] .020, grit size and EDP number		Opt. RPM	Max. RPM	
				270 (coarse)	400 (fine)			

Stainless steel wire (INOX), Diamond (DIA)

2-3/4	5/8-11	18	1-5/8	84352	84353	1,000–2,800	11,000	1
4	5/8-11	24	1-1/2	84348	84349	1,000–2,400	9,000	1

Crimped wheel

The polycrystalline diamond M-BRAD® brush line is designed for honing and surface conditioning applications on hard materials. Honing of cutting tools made of cemented carbide as well as Cermets (Ceramic+Metal composites) are the most popular applications for diamond M-BRAD® brushes.

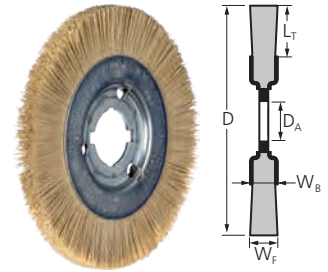
Advantages:

- Precise, consistent and repeatable honing geometry control.
- Honing and surface conditioning results without the use of diamond paste/slurry.
- Diamond M-BRAD® brushes can be conveniently mounted on standard shop tools.

Recommendations for use

- Designed for use on stationary machines.

PFERDVALUE®:



D [Inches]	D _A [Inches]	L _T [Inches]	W _F [Inches]	W _B [Inches]	Incl. keyway [Inches]	D _r [Inches]/Grit size and EDP number	Opt. RPM	Max. RPM	Adapter style	
						.010/600				

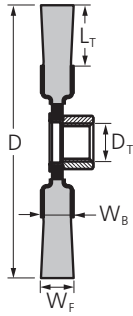
M-BRAD® nylon abrasive filament, Diamond grain DIA

4	5/8	3/4	1/2	1/2	-	84325	2,000–5,000	12,000	D	1
6	1-1/4	1-1/8	1/2	1/2	1/4 x 1/8	84323	1,000–3,500	6,000	A	1
8	2	1-1/2	1/2	1/2	1/2 x 1/4	84322	900–1,500	4,500	-	1



TOOL MANUAL 23 at-a-glance

Universal Line threaded wheel brushes



Knot wire, stringer bead twist


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

Advantages:

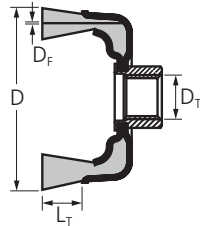
- Narrow face width enables optimal access to hard-to-reach areas such as root weld seams.

Ordering note:

- Box quantity of 10 indicates bulk-packed items without individual POP packaging.

D [Inches]	D _T [Inches]	L _T [Inches]	W _F [Inches]	D _F [Inches] and EDP number	Opt. RPM	Max. RPM	
				.020			
Carbon steel wire							
4	5/8-11	3/4	1/4	143438	10,000–15,000	20,000	10
6	5/8-11	1-1/4	1/4	144404	4,500–9,000	9,000	10
Stainless steel wire (INOX)							
4	5/8-11	3/4	1/4	145401	10,000–15,000	20,000	10

Universal Line cup brushes



Knot wire, full cable twist


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

Advantages:

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

Ordering notes:

- Box quantity of 10 indicates bulk-packed items without individual POP packaging.

D [Inches]	D _T [Inches]	L _T [Inches]	D _F [Inches] and EDP number	Opt. RPM	Max. RPM	
				.020		
Carbon steel wire						
2-3/4	5/8-11	3/4	145463	7,000–12,500	12,500	10
Stainless steel wire (INOX)						
2-3/4	5/8-11	3/4	145586	7,000–12,500	12,500	10

Crimped wire

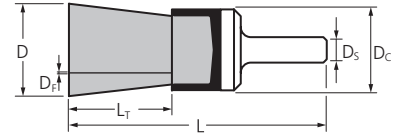
Ideal for brushing uneven surfaces. Used for light to medium duty brushing action such as removal of light scale, dirt, rust, corrosion and light burrs.

Advantages:

- Highly flexible, enabling optimal adjustment to workpiece contours.
- Designed for use on straight grinders

Ordering notes:

- Box quantity of 10 indicates bulk-packed items without individual POP packaging.



D [Inches]	Ds [Inches]	Lf [Inches]	Df [Inches] and EDP number		Opt. RPM	Max. RPM	
			.020				

Carbon steel wire

1	1/4	1	145920		8,000–11,000	20,000	10
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Knot wire

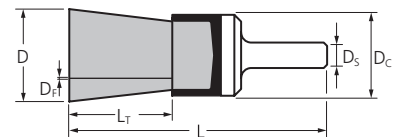
These brushes feature tightly twisted knots for low flex, high impact brushing action. Ideal for tough brushing applications. For weld cleaning, weld spatter removal, scale removal, cleaning, deburring, and flash removal.

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.

Ordering notes:

- Box quantity of 10 indicates bulk-packed items without individual POP packaging.



D [Inches]	Ds [Inches]	Lf [Inches]	Df [Inches] and EDP number		Opt. RPM	Max. RPM	
			.014	.020			

Carbon steel wire

1	1/4	1	-	145623	8,000–11,000	20,000	10
---	-----	---	---	--------	--------------	--------	----

Stainless steel wire (INOX)

1	1/4	1	145876	-	8,000–11,000	20,000	10
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TOOL MANUAL 23 at-a-glance

Knot wheel brushes with X-LOCK quick-change system



With the BOSCH X-LOCK system for angle grinders, you can change brushes quickly and comfortably. Instead of a round centre hole, the X-LOCK system features an X-shaped contour, which allows the brush to be fixed on the angle grinder in a form-fitting manner. This guarantees that different brushes can be mounted securely and comfortably in the shortest possible time. The unique system meets the highest quality and safety standards and even withstands tough and challenging operating conditions.

Advantages:

- Quick and comfortable brush changes.
- Brushes are fixed securely since they audibly click into place.
- X-LOCK products, with the exception of cup brushes, can be used on conventional angle grinders with 7/8" flange.

Recommendations for use:

- Place the brush on the X-LOCK quick-change system of your angle grinder and secure it by lightly pressing it down. The brush will audibly click into place.



How it works:



Place the brush on the X-LOCK holder in a form-fitting manner.

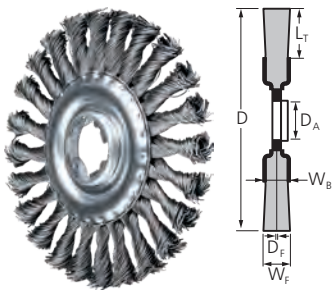


Lightly press the brush down until it audibly clicks into place.



Release the brush by using the lever.

Knot wheel brushes



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.

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

Carbon steel wire

4	X-LOCK (7/8)	22	7/8	5/8	80705	10,000–15,000	20,000	1
---	--------------	----	-----	-----	--------------	---------------	--------	----------

Stainless steel wire (INOX)

All X-LOCK INOX brushes are degreased.

4	X-LOCK (7/8)	22	7/8	5/8	80422	8,000–15,000	20,000	1
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TOOL MANUAL 23 at-a-glance

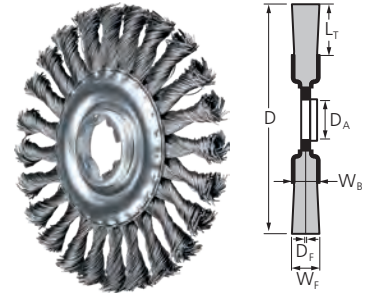
Knot wheel brushes with X-LOCK quick-change system

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.



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

Carbon steel wire

4	X-LOCK (7/8)	22	3/4	1/2	80706	80707	10,000–15,000	20,000	1
4-1/2	X-LOCK (7/8)	24	7/8	1/2	-	80708	6,300–12,500	12,500	1
4-7/8	X-LOCK (7/8)	24	1-1/16	1/2	-	80709	6,300–12,500	12,500	1

Stainless steel wire (INOX)

All X-LOCK INOX brushes are degreased.

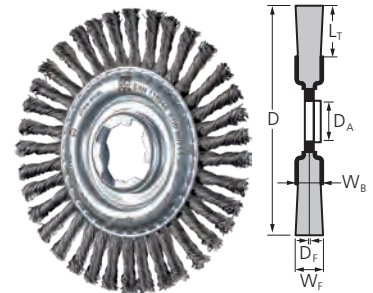
4-1/2	X-LOCK (7/8)	24	7/8	1/2	-	80423	5,000–12,500	12,500	1
4-7/8	X-LOCK (7/8)	24	1-1/6	1/2	-	80424	5,000–12,500	12,500	1

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.



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

Carbon steel wire

4	X-LOCK (7/8)	32	3/4	3/16	80710		10,000–15,000	20,000	1
4-1/2	X-LOCK (7/8)	32	1	3/16	80711		6,300–12,500	12,500	1
4-7/8	X-LOCK (7/8)	38	3/4	3/16	80412		6,300–12,500	12,500	1

Stainless steel wire (INOX)

All X-LOCK INOX brushes are degreased.

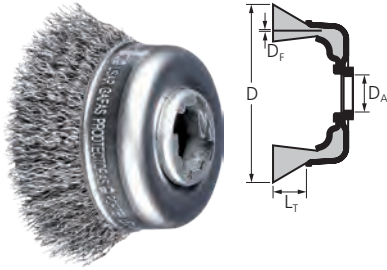
4	X-LOCK (7/8)	32	3/4	3/16	80425		8,000–15,000	20,000	1
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The box quantity and EDP of POP items are printed in "blue".

TOOL MANUAL 23 at-a-glance

Crimped cup brushes with X-LOCK quick-change system




Crimped cup

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.
- Designed for use on right angle grinders.

D [Inches]	D _A	L _T [Inches]	D _F [Inches] and EDP number		Opt. RPM	Max. RPM	
			.012				

Carbon steel wire

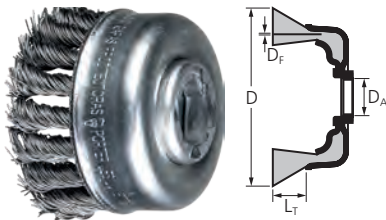
3	X-LOCK	7/8	80715		6,300–9,400	12,500	1
---	--------	-----	-------	--	-------------	--------	---

Stainless steel wire (INOX)

All X-LOCK INOX brushes are degreased.

3	X-LOCK	7/8	80427		5,000–8,100	12,500	1
---	--------	-----	-------	--	-------------	--------	---

Knot cup brushes with X-LOCK quick-change system




Single 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.

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

Carbon steel wire

2-3/4	X-LOCK	18	3/4	80716	80717	6,300–12,500	12,500	1
3	X-LOCK	20	3/4	-	80718	5,000–10,000	11,500	1

Stainless steel wire (INOX)

All X-LOCK INOX brushes are degreased.

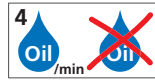
2-3/4	X-LOCK	18	3/4	80428	80429	5,000–12,500	12,500	1
3	X-LOCK	20	3/4	-	80430	4,000–10,000	11,500	1

Tool benefits:

- High power output geared to lower speed.
- No oil residues on the workpiece.
- Ideal for fine grinding and polishing products.
- Safety lever throttle (HV) protects against inadvertent start-up.
- Rear exhaust with silencer.

Accessories included:

2.5' exhaust hose and 6.6' air supply hose (without nozzle), 1/4" collet EDP 93074 (collet group 6), 2 keys.

PFERDVALUE®:

PGAS 5/40 V-HV

with oil: 4,000 RPM / 0.5 HP / 370 watts
without oil: 3,500 RPM / 0.5 HP / 340 watts



EDP number	Description	Air consumption at idling speed [cfm]	Air consumption under load [cfm]	Exhaust direction	Throttle type	Sound level [dB(A)]	Air supply hose inner dia. [Inches]	Weight [lb]
90082	PGAS 5/40 V-HV	30.02	22.5	rear	lever	79	5/16	1.99

* See TOOL MANUAL 23 for additional information and compatible accessories.

Air grinders, angle grinders

Tool benefits:

- Smallest, high speed angle grinder in this performance class for industrial applications.
- Durable design, without angular gears.
- Adjustable side exhaust.

Accessories included:

■ 0.98' exhaust hose, 6.6' air supply hose (without nozzle), 1/8" collet EDP 93012 (collet group 2), 2 keys.


PWSA 1/800

80,000 RPM / 0.1 HP / 75 watts



EDP number	Description	Air consumption at idling speed [cfm]	Air consumption under load [cfm]	Exhaust direction	Throttle type	Sound level [dB(A)]	Air supply hose inner dia. [Inches]	Weight [lb]
90503	PWSA 1/800	8.83	6.36	rear	ring	78	13/64	0.28



* See TOOL MANUAL 23 for additional information and compatible accessories.





MIM STG3S 3/800

Tool benefits:

- Control device for stepless rotational speed control of micro motor handpieces.
- Rotational speed can be controlled by hand or foot switch.
- Max. 80,000 RPM clockwise rotation.
- Max. 30,000 RPM anti-clockwise rotation.
- 2 switchable connection sockets for micro motor handpieces.
- Programmable speed ranges with automatic handpiece recognition
- Protective grounding. 
- Safety extra-low voltage. 

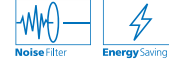
80,000–1,000 RPM / 0.5 HP / 350 watts

Assembly according to application requirement.

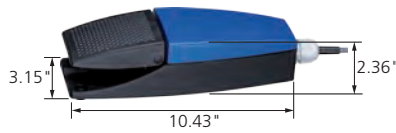
Accessories included:

6.6' power cable, 2 handpiece supports.

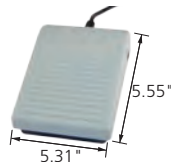
PFERDVALUE®:



Vario foot switch* MIM FU-R



On/off foot switch MIM FU-E/A



Extension cable MIM VLK HAS/WZS 9.8'





EDP number	Description	For micro motor handpieces [RPM]	Voltage [volts] 50–60 Hz	Output voltage [volts]	Net weight [lb]
91531	MIM STG3S 3/800 115 V	80,000–1,000	115 V	50	6.570
91532	MIM FU-R	-	5 V	-	1.863
91533	MIM FU-E/A	-	5 V	-	0.683
91557	MIM VLK HAS/WZS 9.8'	-	-	-	0.335

*Vario = stepless rotational speed control



Tool benefits:

- Start/stop switch on handpiece.
- Automatic speed limitation.
- Brushless motor.
- Start interlock without clamped tools.
- Very high concentricity speed.
- Extremely energy-efficient and quiet in comparison to air grinders.
- Safety extra-low voltage.  
- SP = keyless fast clamping system.
- VS = with extended spindle.

Accessories included:

5.91' handpiece cable length, 1/8" collet EDP 93257 (collet group 17), 2 keys.

PFERDVALUE®:

MIM HAS 3/800 SP1/8"



MIM HAS 2/600 SP1/8",
MIM HAS 3/600 SP1/8",
MIM HAS 1/500 SP1/8",
MIM HAS 3/500 VS-SP1/8"


MIM HAS 3/800 SP1/8"


80,000–1,000 RPM / 0.5 HP / 350 watts

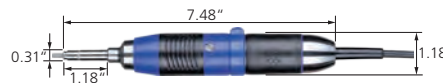
MIM HAS 2/600 SP1/8"


60,000–1,000 RPM / 0.4 HP / 260 watts

MIM HAS 3/600 SP1/8"




MIM HAS 1/500 SP1/8"


50,000–1,000 RPM / 0.4 HP / 260 watts

MIM HAS 3/500 VS-SP1/8"


EDP number	Description	Rotational speed [RPM]	Low voltage [volts]	Power consumption [watts]	Power output [watts]	Collet group	Keys no.	Sound level [dB(A)]	Net weight [lb]
91540	MIM HAS 3/800 SP1/8"	80,000–1,000	50	350	approx. 180	17	4, 5	63	0.728
91535	MIM HAS 2/600 SP1/8"	60,000–1,000	36/50	260	150	17	4	60	0.573
91536	MIM HAS 3/600 SP1/8"	60,000–1,000	36/50	260	150	17	4, 5	60	0.694
91534	MIM HAS 1/500 SP1/8"	50,000–1,000	36/50	260	120	17	3, 4	60	0.595
91537	MIM HAS 3/500 VS-SP1/8"	50,000–1,000	36/50	260	150	17	4, 5	60	0.717

Keys

(3)	Item no.	Description	EDP number
	3	SKS SW 1,5MM	93387
	4	MIM SPS DK D7	93388
	5	MIM ARS HA D23,5	93389

Collets

Group	For shank diameter and EDP number				
	1/8 inch	1/4 inch	2.35 mm	3 mm	6 mm
17	93257	-	93256	93255	-

* See TOOL MANUAL 23 for additional information and compatible accessories.

TOOL MANUAL 23 at-a-glance

Micro motor handpieces

MIM HAS 3/600 S1/8"



MIM HAS 3/600 S1/4"



MIM WZS 3/300 90° S1/8"




MIM WZS 3/300 45° S1/8"



60,000–1,000 RPM / 0.4 HP / 260 watts

30,000–1,000 RPM / 0.4 HP / 260 watts

Tool benefits:

- Start/stop switch on handpiece.
- Automatic speed limitation.
- Brushless motor.
- Very high concentricity speed.
- Extremely energy-efficient and quiet in comparison to air grinders.
- Safety extra-low voltage. 
- S = changing tools with 2 keys.

Accessories included:



5.91' handpiece cable length, 1/8" collet EDP 93267 (collet group 18), EDP 93277 (collet group 19 or 1/4" collet EDP 93279 (collet group 19), 2 keys.

PFERDVALUE®:



EDP number	Description	Rotational speed [RPM]	Low voltage [volts]	Power consumption [watts]	Power output [watts]	Collet group	Keys no.	Sound level [dB(A)]	Net weight [lb]
91538	MIM HAS 3/600 S1/8"	60,000–1,000	36/50	260	150	19	2, 7	60	0.866
91539	MIM HAS 3/600 S1/4"	60,000–1,000	36/50	260	150	19	2, 7	60	0.893
91541	MIM WZS 3/300 90° S1/8"	30,000–1,000	36/50	260	120	18	1, 6	61	0.525
91542	MIM WZS 3/300 45° S1/8"	30,000–1,000	36/50	260	120	18	1, 6	61	0.408

Keys

	Item no.	Description	EDP number
(1)			
(2)			
(6)	1	MIM ARH	93385
	2	DM SW 10/10MM	93386
(7)	6	DM SW 4/4MM	93390
	7	MIM-DSTS SW11XD2,4MM	93391

Collets

	Group	For shank diameter and EDP number				
		1/8 inch	1/4 inch	2.35 mm	3 mm	6 mm
	18	93267	-	93266	93265	-
	19	93277	93279	93278	93276	93275

* See TOOL MANUAL 23 for additional information and compatible accessories.

Mammoth Electronic MEW 18/240

24,000-100 RPM / 2.0 HP / 1,500 watts

Tool benefits:

- With max. rotational speed 24,000 RPM.
- Most powerful and stable torque.
- Stepless rotational speed control.
- Overload protection.
- Smooth start-up to protect people, tools and the drive.
- Restart protection in case of power failure.
- Very low noise generation.
- Removable operating console with possibility of extension, e.g. hanging design for work in boilers.
- High torque, even within low rotational speed ranges.
- Easy to service, easy-to-remove housing with four main modules.

Accessories included:

13.12' power cable with plug, 2 keys (EDP 93312).
The drive is supplied without flexible shaft, please order separately (see below for information).

PFERDVALUE:



EDP number	Description	Dimensions L x W x H [Inches]	Flexible shaft connection [DIN]	Rotational speed [RPM]	Voltage 50–60 Hz	Power consumption [watts]	Power output [watts]	Weight [lb]
92013	MEW 18/240 240V	17.52 x 7.87 x 12.60	10	24,000–100	200–240	2,000	1,500	54.013

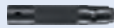

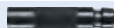
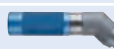



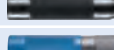
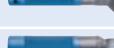
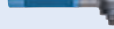

Flexible shafts

EDP number	Description	Suitability rating			Max. power output*1 [watts]	Tool connection [DIN]	Handpiece connection	Included handpiece	Catalogue detail page
		≤ 3,200 RPM	4,800–9,600 RPM	≥ 12,000 RPM					
94264	BW 4 PST-T DIN 10/M4	high	-	-	special*2	10	-	-	56
94001	BW 4 ZG DIN 10	-	-	high	500–300	10	G16	94301	51
94005	BW 6 ZG DIN 10	-	medium	high	1,500–750	10	G16	94301	51
94015	BW 7 ZGU DIN 10	-	medium	high	1,760–880	10	G22	94315	53
94274	BW 7 PST-T DIN 10/M5	high	medium	-	special*2	10	-	-	56
94020	BW 10 ZG DIN 10	high	high	medium	2,450–140	10	G28	94320	55

*1 Please refer to page 49 of TOOL MANUAL 23 for information on flexible shaft speeds, power outputs, and operational safety.

*2 Only for use with POLISTAR-TUBE abrasive stars, POLINOX® cross buffs, and threaded nylon tube brushes.

Handpieces

EDP number	Description	Max. RPM	Shaft connection	Included collet size	Catalogue detail page	Photo
94301	HA 4 ZGB G16	40,000	G16	1/4"	60	
94351	WZ 4 A G16	20,000	G16	1/8"	60	
94315	HA 7 ZGA G22	25,000	G22	1/4"	60	
94375	WZ 7 45° G22	17,100	G22	1/4"	60	
94355	WZ 7 B G22	17,100	G22	1/4"	60	
94385	WT 7 E M 14 G22	25,000	G22	M14 thread	60	
94320	HA 10 ZGE G28	18,000	G28	1/4"	60	
94380	WZ 10 45° G28	17,100	G28	1/4"	60	
94360	WZ 10 B G28	17,100	G28	1/4"	60	
94330	HA 12 ZGA G28	18,000	G28	1/2"	60	
94418	FSH G28	12,000	G28	1/4"	60	

We have restructured catalogue sections 6 and 7 to make it easier for you to select the correct product for your application. The new label design indicates the material information in which the product is suitable, using a new naming convention as the quick identifier. We have also introduced a star system representing the three PFERD quality lines PSF ★★☆☆, SG ★★★★★ and SGP ★★★★★. All EDP numbers have been retained. A comparison of the previous and new ranges is provided below.

Tool Manual 22		>>	Tool Manual 23		
Picture	Previous description		Picture	New description	Tool Manual 23 Page

Catalogue section 6

Grinding wheels

	A 24 R PSF	>>		PSF STEEL	50
	A 24 L PSF	>>		PSF STEELOX	51
	A 24 R SG	>>		SG STEEL	52
	A 30 N SG-INOX	>>		SG INOX	53
	A 24/46 R SG-INOX-NOTCHING	>>		SG NOTCHING STEELOX	54
	A 24 N SG-ALU	>>		SG ALU	55
	CO 24 Q SG	>>		CERAMIC SGP STEELOX	61
	ZA 30 S SG	>>		ZIRKON SG CAST+STEEL	56
	C 24 Q SG	>>		SG CAST+STONE	57
	ZA 24 R SG-PLUS	>>		ZIRKON SGP STEEL	60
	A 46 H SG-PLUS WHISPER	>>		SGP WHISPER STEELOX	59

Tool Manual 22	
Picture	Previous description

>>

Tool Manual 23		
Picture	New description	Tool Manual 23 Page


PIPELINE grinding wheels

In TOOL MANUAL 23, PIPELINE grinding wheels are now incorporated into the regular grinding wheel tables. They are no longer classified as "PIPELINE" grinding wheels on the wheel label, however, they are still specific to the pipeline market.










	A 24/30/46 M PSF-INOX-PIPE	>>		PSF STEELOX	51
	A 24 R SG-PIPE	>>		SG STEEL	52
	ZA 30 S SG-PIPE	>>		ZIRKON SG CAST + STEEL	56

DUODISC® combination wheels for cutting and face grinding

The DUODISC® combination wheels for cutting and face grinding have been incorporated into the cut-off wheels section.

	A 24/46 P PSF-INOX-DUO	>>		PSF DUODISC® STEELOX combination wheel	14
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CC-GRIND® grinding discs

	CC-GRIND® SG-STEEL	>>		Discontinued product, replaced by COMBICLICK® CO-COOL, catalogue section 4	14 of catalogue section 4
	CC-GRIND® SG-INOX	>>		CC-GRIND®-SOLID SG STEEL	43
	CC-GRIND®-SOLID SG-STEEL	>>		CC-GRIND®-SOLID SG INOX	43
	CC-GRIND®-SOLID SG-INOX	>>		CC-GRIND®-FLEX SG STEEL	44
	CC-GRIND®-FLEX SG-STEEL	>>			





Cup wheels

	A 16 Q SG	>>		SG STEEL	62
	Z 16 Q SG	>>		SG CAST+STEEL	62
	C 16 Q SG	>>		SG STONE	63

Tool Manual 22		Tool Manual 23			
Picture	Previous description	>>	Picture	New description	Tool Manual 23 Page
Snagging wheels					
	A 24 M SG	>>		Discontinued product	N/A
POLIFAN® flap discs					
	PSF Z	>>		Z PSF STEELOX	29
	PSF Z-EXTRA	>>		Z PSF EXTRA STEELOX	30
	PSF Z-TRIM	>>		Z PSF TRIM STEELOX	31
	SG A	>>		A SG STEELOX	32
	SG Z / Z SG-POWER	>>		Z SG POWER STEELOX	34
	SG Z-COMPACT	>>		Discontinued product, replaced by Z SG POWER STEELOX	34
	SG ZA	>>		Discontinued product, replaced by CO-FREEZE SG INOX	36
	SG A-COOL	>>		A-COOL SG INOX+ALU	33
	SG-PLUS Z-EXTRA	>>		Discontinued product, replaced by Z PSF EXTRA STEELOX	30
	SG-PLUS CO-COOL	>>		CO-COOL SG STEELOX	35
	SG-PLUS Z-STRONG	>>		Z SGP STRONG STEEL	37
	CO SG-PLUS-STRONG-FREEZE	>>		Discontinued product, replaced by CO-FREEZE SG INOX	36

TOOL MANUAL 23 at-a-glance

Cross reference list for catalogues 6 and 7

Tool Manual 22	
Picture	Previous description
	Z SG-PLUS-CURVE
	CO SG-PLUS-CURVE
	A SG-PLUS-CURVE ALU
	A SG TX-INOX





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Tool Manual 23		
Picture	New description	Tool Manual 23 Page
	Z SGP CURVE STEELOX	38
	CO SGP CURVE STEELOX	39
	A SGP CURVE ALU	39
	TX INOX+ALU, catalogue section 4	114 of catalogue section 4

Cut-off wheels

	A 46/60 P PSF
	A 24/46/60 P PSF-INOX
	A 24/30/46/60 S SG
	A 24/46/60 R SG-INOX
	A 24/30/46/60 N SG-ALU
	A 24/30/46/60 T SG-PLUS
	A 24/46/60 S SGP-INOX

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	PSF STEEL	12
	PSF STEELOX	13
	SG STEEL	15
	SG STEELOX	16
	SG ALU	18
	Discontinued product, replaced by CERAMIC SGP STEEL	19
	SGP STEELOX	20

Cut-off wheels for die grinders








	A 46/60 S SG-PLUS-INOX
	A 24/36/60 P PSF

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	Discontinued product, replaced by SG STEELOX	24
	SG STEELOX	24

Tool Manual 22		Tool Manual 23			
Picture	Previous description	>>	Picture	New description	Tool Manual 23 Page
Cut-off wheels for circular metal cutting saws					
	A 24 S SG	>>		SG STEELOX	21
	A 46 S SG-PLUS-INOX	>>		Discontinued product	N/A
	A 36/60 P PSF	>>		Discontinued product	N/A
Cut-off wheels for portable gas saws					
	A 24 S SG	>>		SG STEEL	22
	C 24 R SG	>>		SG STONE	23
	AC 24 Q SG	>>		SG CAST+STONE	23
	A 24 T SG-DECKING	>>		Discontinued product, replaced by SG STEEL	22
Catalogue section 7					
Cut-off wheels for stationary applications					
	A 36 K PSF-CHOP	>>		PSF CHOP STEEL	9
	A 36 K SG-CHOP	>>		SG CHOP STEEL	10
	A 36 K SG-CHOP-INOX	>>		SG CHOP STEELOX	10

Tool Manual 22			Tool Manual 23		
Picture	Previous description	>>	Picture	New description	Tool Manual 23 Page
	A 36 K SG-STUD	>>		SG STUD STEEL	11
	A 30 L SG-CHOP-HD	>>		SG CHOP HD STEEL	12
	A 24 Q SG-RAIL	>>		SG RAIL STEEL	13
	ZA 24 R SG-HD	>>		ZIRKON SGP-HD CAST+STEEL	15
	A 24/36 N/Q/S SG-HD	>>		SGP HD STEEL	14

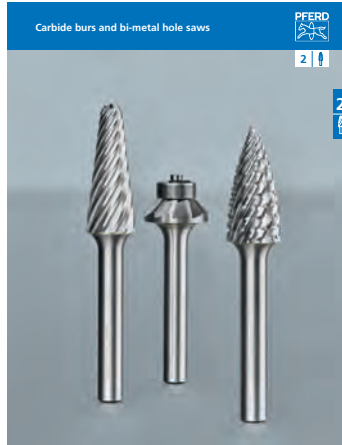
TOOL MANUAL 23 at-a-glance

Quality tools from a single source



Catalogue section 1

Files



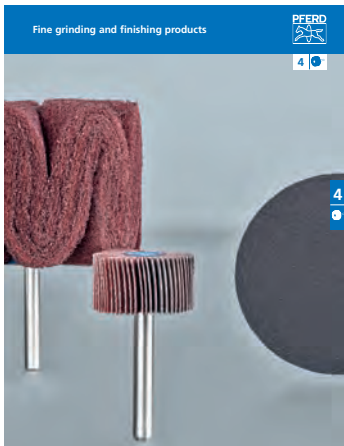
Catalogue section 2

Carbide burs and bi-metal hole saws



Catalogue section 3

Mounted points, cones and plugs, bench grinding wheels



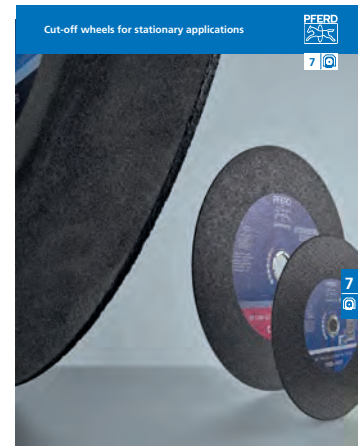
Catalogue section 4

Fine grinding and polishing tools



Catalogue section 6

Cut-off wheels, flap discs and grinding wheels



Catalogue section 7

Cut-off wheels for stationary applications



Catalogue section 8

Power and maintenance brushes



Catalogue section 9

Power tools

PFERD INC.

9201 W. Heather Ave.
Milwaukee, WI 53224
Phone: (262) 255-3200
Toll-Free: (800) 342-9015
Fax: (262) 255-2840
e-mail: sales@pferdusa.com

PFERD CANADA INC.

5570 McAdam Road
Mississauga, ONT L4Z 1P1
Phone: (905) 501-1555
Toll-Free: (866) 245-1555
Fax: (905) 501-1554
e-mail: sales@pferdcanada.ca