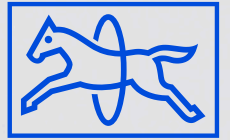


PFERD



TOOLS



Mounted points

Mounted points

- Highlights from the PFERD TOOLS range 3
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Mounted points

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Mounted points

Highlights from the PFERD TOOLS range



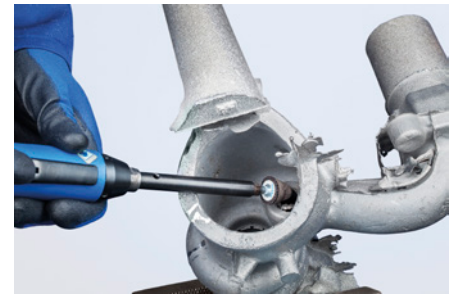
TOUGH mounted points

TOUGH type mounted points have a state-of-the-art vitrified bond comprising an aluminium oxide mixture of ceramic oxide grain and white aluminium oxide, which impresses as it is easy to break down. The mounted points have a long tool life and high stock removal performance with excellent removal rates thanks to the self-sharpening qualities of the ceramic oxide grain.

The TOUGH type is specifically designed for general use on titanium materials, nickel-based and cobalt-based alloys, hardened steel components and built-up weld deposits. TOUGH type mounted points can easily machine hardened, heat-treated steels over 1,200 N/mm² (> 38 HRC).

Its applications include weld dressing on repair welds and reworking on turbine blades during aircraft maintenance, as well as regrinding of repair welds in tool and mould-making.

Scan the QR code to find out more about the PFERD TOOLS grinding/mounted points.



Bench grinding wheels

PFERD TOOLS offers a very wide range of high-quality bench grinding wheels for work on a large variety of materials. Bench grinding wheels are very well-suited to deburring, work on edges and sharpening tools. The bench grinding wheels are available with different dimensions, grains and abrasives. The PFERD TOOLS range has been adapted to the standard bench grinders on the market.

The bench grinding wheels impress with their long tool life, high dimensional stability and high abrasive performance. Thanks to the integrated adapter sleeves, the bench grinding wheels can be mounted on almost any bench grinder spindle. Dressing the wheel on a regular basis exposes sharp grain and maintains an even grinding area.

Scan the QR code to find out more about the PFERD TOOLS bench grinding wheels.



Grinding and polishing stones

Grindstones and polishing stones are versatile tools for finish machining on moulds in tool and mould-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. They are also used for rounding and finishing.

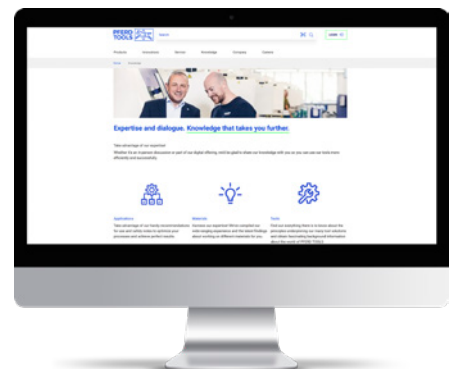
A quick-mounting handle is recommended in manual applications to make work more ergonomic. Grinding oil should be used to achieve a better surface finish. Polishing stones should be sorted by type to avoid grain being carried over.

Scan the QR code to find out more about grinding and polishing stones.



More expert information online

Scan the QR code to find out a wide range of tool and application knowledge relating to PFERD TOOLS' high-quality tools and their huge variety of materials.



The quick way to find the perfect tool

① Material group

Select the material to be machined.

② Application

Select the application.

③ Mounted point type

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

① Material group			Bond ▶		Vitrified bond									
			③ Mounted point type ▶		INOX	INOX EDGE	RUBBER	ALU	TOUGH	CAST	CAST STEEL	STEEL	STEEL EDGE	CAST EDGE
Abrasive ▶			ADW	AN	AH	CN	AWCO	ARN	ADR	ADW	AR	CU		
Rec. cutting speed ▶			35-50 m/s	35-50 m/s	5-20 m/s	20-40 m/s	30-50 m/s	30-50 m/s	25-40 m/s	30-50 m/s	25-40 m/s	30-50 m/s		
② Application ▼														
Steel, cast steel	Steels up to 1,200 N/mm ² (< 38 HRC)	Construction steels, carbon steels, tool steels, non-alloyed steels, case-hardened steels, tempering steels	Universal								●			
			Surface	○								●	○	
			Edges		○							○	●	
	Hardened, heat-treated steels over 1,200 N/mm ² (> 38 HRC)	Tool steels, tempering steels, alloyed steels	Universal									●		
			Surface					●				○		
			Edges					●						○
	Cast steel	Non-alloyed cast steel, low-alloyed cast steel	Universal								●			
			Surface	○						○	○	●	○	
			Edges		○						○	○	●	
Stainless steel (INOX)	Rust and acid-resistant steels	Austenitic and ferritic stainless steels	Surface	●	○							○		
			Edges	○	●								○	
Non-ferrous metals	Soft non-ferrous metals, non-ferrous metals	Aluminium alloys, brass, copper, zinc	Universal	○			●							
	Hard non-ferrous metals	Bronze, titanium, titanium alloys, hard aluminium alloys		●			○	●			○			
	High-temperature-resistant materials	Nickel-based and cobalt-based alloys (engine and turbine construction)		○				●						
Cast iron	Grey cast iron, white cast iron	Cast iron with flake graphite EN-GJL (GG), with nodular graphite/nodular cast iron EN-GJS (GGG), white annealed cast iron EN-GJMW (GTW), black annealed cast iron EN-GJMB (GTS)	Surface	○	○					●	○		○	
			Edges	○	○					○	○		○	●
Plastics, other materials	Fibre-reinforced plastics, thermoplastics, rubber, wood		Universal			●	○							

● = highly suitable ○ = suitable

Applications of mounted points



General use

For general use on surfaces and edges, the emphasis is on the balance between abrasive performance and tool life.



Surface grinding

In surface grinding, the mounted points are subject to lower loads. The mounted point bond is therefore comparatively soft and has been designed to give high stock removal rates.

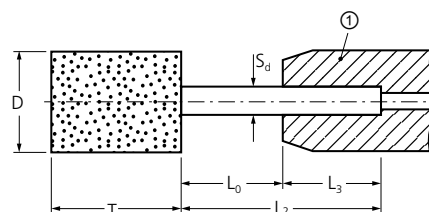


Edge grinding

In edge grinding, the mounted points must be dimensionally stable. The mounted point bond is therefore comparatively hard and designed for a long service life.

Explanation of the code system according to EN 12413

D = Mounted point outer dia.
 T = Mounted point width
 S_d = Shank dia.
 L_0 = Unsupported shank length
 L_2 = Shank length
 L_3 = Clamping length of shank (⊙ collet)



Safety notes

All PFERD TOOLS mounted points are approved for a maximum operating speed of 50 m/s. The maximum permitted rotational speeds for the various shank lengths and shank diameters are defined in DIN 69170 based on EN 12413. These must be adhered to in order to avoid buckling of the shank during use. Regardless of the shank length, the clamping length (L_3) of the shank must be at least 10 mm.

The maximum permitted rotational speed calculated according to EN 12413 is determined by the following factors:

- Shape and dimensions of the mounted point
- Diameter of the steel shank S_d
- Unsupported shank length L_0



Wear eye protection!



Wear hearing protection!



Wear a dust mask!



Wear gloves!



Observe the safety notes!

Custom-made products

If you cannot find the solution for your particular application in our extensive catalogue range, we can produce grinding and mounted points in premium PFERD TOOLS quality specifically for your application on request.

We can take into account your specifications and needs, drawings, information on dimensions and shapes, grit sizes and grain types, grain mixtures, shank diameters and shank lengths. Please speak to our sales representatives. We will be happy to advise you.

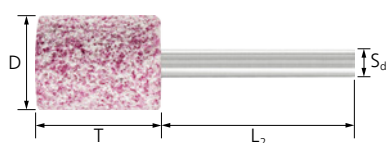


Extensions for drive spindles

Mounted points with a shank diameter of 3, 6 and 8 mm can be extended with drive spindle extensions. They allow access to hard-to-reach areas. The drive spindle extension is mounted in the collet of the tool drive (air grinder or electric grinder), or in the handpiece of the flexible shaft. In some applications, spindle extensions are an economical alternative to customized mounted points with long shanks. Further information on our drive spindle extensions can be found in catalogue section 9 "Tool drives".


3

For universal use on steel and cast steel




STEEL cylindrical mounted points

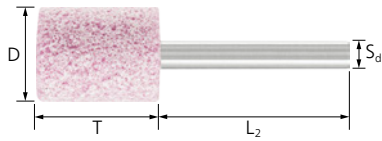
These mounted points are exceptionally well suited for grinding high-speed steel (HSS) moulded parts and weld dressing of weld seams on steel constructions. The cylindrical shape ZY is ideal for grinding bores, radii and contours.



Special features:

- High grinding performance and stock removal rate in general use on steel materials.
- Shortened grinding times and thus cost savings due to the high stock removal rate.
- Particularly suitable for work on surfaces.

S_d [mm]	L_2 [mm]	D [mm]	T [mm]	Grit size	USA type	Opt. RPM	Max. RPM		Item no.	Designation
3	30	4	8	100	-	150,000	175,100	10	31105250	ZY 0408 3 ADW 100 M5V STEEL
		5	10	100	W 153	130,000	130,700	10	31107250	ZY 0510 3 ADW 100 M5V STEEL
		6	13	100	W 163	93,600	93,600	10	31110250	ZY 0613 3 ADW 100 M5V STEEL
6	40	13	25	80	W 187	65,000	66,000	10	31125258	ZY 1325 6 ADW 80 M5V STEEL
			40	46	W 188	42,400	42,400	10	31146254	ZY 1340 6 ADW 46 M5V STEEL
		20	25	60	W 205	43,000	47,700	10	31131256	ZY 2025 6 ADW 60 M5V STEEL
			25	60	W 220	35,000	38,100	10	31134256	ZY 2525 6 ADW 60 M5V STEEL
		32	8	60	W 226	27,000	29,800	5	31325256	ZY 3208 6 ADW 60 M5V STEEL
			40	10	30	W 236	22,000	23,800	5	31328253
		20		46	-	22,000	23,800	5	31330254	ZY 4020 6 ADW 46 M5V STEEL
		40		46	W 238	16,200	16,200	5	31138254	ZY 4040 6 ADW 46 M5V STEEL
		50	25	46	W 242	17,000	19,000	5	31332254	ZY 5025 6 ADW 46 M5V STEEL




STEEL EDGE cylindrical mounted points

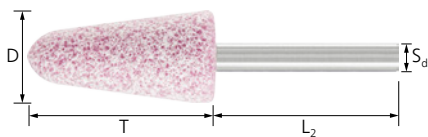
These mounted points are particularly suitable for edge grinding and for deburring work, as well as for grinding chamfers for weld seam preparation and weld dressing on contours. The cylindrical shape ZY is ideal for grinding bores, radii and contours.



Special features:

- Long tool life and low tool wear due to hard, dimensionally stable bond.
- Economical to use due to the high edge stability even on low-speed tool drives.
- Particularly well suited to work on edges.

S_d [mm]	L_2 [mm]	D [mm]	T [mm]	Grit size	USA type	Opt. RPM	Max. RPM		Item no.	Designation
3	30	3	13	100	W 146	95,400	95,400	10	35806270	ZY 0313 3 AR 100 O5V STEEL EDGE
		6	19	100	W 164	64,500	64,500	10	35824270	ZY 0619 3 AR 100 O5V STEEL EDGE
6	40	20	25	30	W 205	33,000	47,700	10	31131273	ZY 2025 6 AR 30 O5V STEEL EDGE
		25	25	30	W 220	26,000	38,100	10	31134273	ZY 2525 6 AR 30 O5V STEEL EDGE
		32	6	46	W 225	21,000	30,000	5	35985274	ZY 3206 6 AR 46 O5V STEEL EDGE
		40	10	30	W 236	16,000	23,800	5	31328273	ZY 4010 6 AR 30 O5V STEEL EDGE




STEEL EDGE, tapered type

These mounted points are particularly suitable for edge grinding and for deburring work, as well as for grinding chamfers for weld seam preparation and weld dressing on contours. The conical shape KE is designed for a comfortable working position when smoothing out a ridge on a surface.



Special features:

- Long tool life and low tool wear due to hard, dimensionally stable bond.
- Economical to use due to the high edge stability even on low-speed tool drives.
- Particularly well suited to work on edges.

S_d [mm]	L_2 [mm]	D [mm]	T [mm]	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
6	40	16	45	46	42,000	52,000	10	32210274	KE 1645 6 AR 46 O5V STEEL EDGE



STEEL EDGE cups

These mounted points are particularly suitable for edge grinding and for deburring work, as well as for grinding chamfers for weld seam preparation and weld dressing on contours. The cup shape TO is ideal for work on profiles, planar surfaces and ledges, without the cylindrical surface being damaged.

Special features:

- Long tool life and low tool wear due to hard, dimensionally stable bond.
- Economical to use due to the high edge stability even on low-speed tool drives.
- Particularly well suited to work on edges.

S_d [mm]	L_2 [mm]	D [mm]	T [mm]	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
6	40	32	25	46	21,000	29,800	5	32903274	TO 3225 6 AR 46 O5V STEEL EDGE

Mounted points

For edge grinding on steel and cast steel




Series A STEEL EDGE

These mounted points are particularly suitable for edge grinding and for deburring work, as well as for grinding chamfers for weld seam preparation and weld dressing on a wide range of different contours.

Special features:

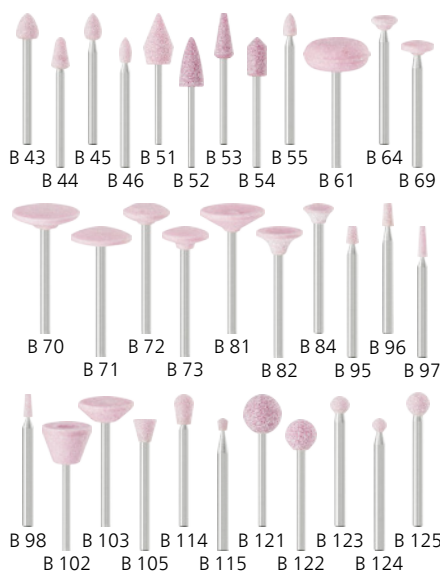
- Long tool life and low tool wear due to hard, dimensionally stable bond.
- Economical to use due to the high edge stability even on low-speed tool drives.
- Particularly well suited to work on edges.

3

S_d [mm]	L_2 [mm]	USA type	D [mm]	T [mm]	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
6	40	A 1	19	64	30	30,400	30,400	10	35501273	A 1 6 AR 30 05V STEEL EDGE
		A 2	25	32	30	26,000	37,500	10	35502273	A 2 6 AR 30 05V STEEL EDGE
		A 3	25	70	30	18,600	18,600	10	35503273	A 3 6 AR 30 05V STEEL EDGE
		A 4	32	32	30	21,000	30,000	5	35504273	A 4 6 AR 30 05V STEEL EDGE
		A 5	19	29	30	35,000	49,900	10	35505273	A 5 6 AR 30 05V STEEL EDGE
		A 6	19	29	30	35,000	49,900	10	35506273	A 6 6 AR 30 05V STEEL EDGE
		A 11	22	50	30	27,600	27,600	10	35511273	A 11 6 AR 30 05V STEEL EDGE
		A 12	17	32	30	40,000	54,500	10	35512273	A 12 6 AR 30 05V STEEL EDGE
		A 14	17	22	30	40,000	54,500	10	35514273	A 14 6 AR 30 05V STEEL EDGE
		A 15	6	27	100	100,000	112,900	10	35515290	A 15 6 AR 100 05V STEEL EDGE
		A 21	25	25	30	26,000	37,500	10	35521273	A 21 6 AR 30 05V STEEL EDGE
		A 24	6	19	60	100,000	117,400	10	35524276	A 24 6 AR 60 05V STEEL EDGE
		A 25	25	25	30	26,000	37,500	10	35525273	A 25 6 AR 30 05V STEEL EDGE
		A 26	16	16	30	42,000	60,000	10	35526273	A 26 6 AR 30 05V STEEL EDGE
		A 36	41	10	60	16,000	23,100	5	35536276	A 36 6 AR 60 05V STEEL EDGE
		A 37	32	6	60	21,000	30,000	5	35537276	A 37 6 AR 60 05V STEEL EDGE

Mounted points

For edge grinding on steel and cast steel




Series B STEEL EDGE

These mounted points are particularly suitable for edge grinding and for deburring work, as well as for grinding chamfers for weld seam preparation and weld dressing on a wide range of different contours on smaller or more delicate components.

Special features:

- Long tool life and low tool wear due to hard, dimensionally stable bond.
- Economical to use due to the high edge stability even on low-speed tool drives.
- Particularly well suited to work on edges.

S_d [mm]	L_2 [mm]	USA type	D [mm]	T [mm]	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
3	30	B 44	6	10	100	100,000	141,100	10	35604270	B 44 3 AR 100 O5V STEEL EDGE
		B 52	10	19	80	65,000	66,200	10	35612278	B 52 3 AR 80 O5V STEEL EDGE
		B 53	6	16	100	100,000	149,200	10	35613270	B 53 3 AR 100 O5V STEEL EDGE
		B 54	6	13	100	100,000	101,500	10	35614270	B 54 3 AR 100 O5V STEEL EDGE
		B 55	3	6	100	150,000	257,000	10	35615270	B 55 3 AR 100 O5V STEEL EDGE
		B 96	3	6	100	150,000	236,100	10	35656270	B 96 3 AR 100 O5V STEEL EDGE
		B 103	16	5	80	42,000	60,000	10	35663278	B 103 3 AR 80 O5V STEEL EDGE
		B 122	10	10	80	65,000	90,200	10	35682278	B 122 3 AR 80 O5V STEEL EDGE



Mounted point set 2002 STEEL EDGE

This set is particularly suitable for edge grinding and for deburring work, as well as for grinding chamfers for weld seam preparation and weld dressing on contours. It contains 15 small mounted points in the most common shapes and dimensions for finishing work.

Contents:

Contains two each of the following mounted points: 5 x 10 mm, 8 x 10 mm, 16 x 4 mm in cylindrical shape; and one each of the following mounted points: 4 x 8 mm, 6 x 13 mm, 8 x 2 mm, 10 x 13 mm, 13 x 3 mm in cylindrical shape, 5 x 10 mm in cylindrical shape with radius end, in ball shape with dia. 5 mm,

3 x 6 mm and 8 x 16 mm in pointed tree shape.

Special features:

- Long tool life and low tool wear due to hard, dimensionally stable bond.
- Economical to use due to the high edge stability even on low-speed tool drives.
- Particularly well suited to work on edges.

S_d [mm]	Grit size		Item no.	Designation
3	fine	1	33920231	2002 O F STEEL EDGE



Mounted points

For edge grinding on steel and cast steel



Mounted point set 2001 STEEL EDGE

This set is particularly suitable for edge grinding and for deburring work, as well as for grinding chamfers for weld seam preparation and weld dressing on contours. It contains 10 mounted points in the most common shapes and dimensions.

Contents:

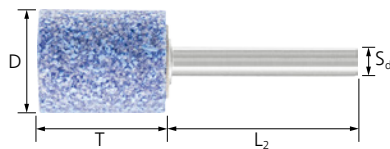
Contains one each of the following mounted points: in cylindrical shape 10 x 13 mm, 13 x 20 mm, 20 x 6 mm, 20 x 13 mm, 20 x 25 mm, in ball shape dia. 16 mm, in cylindrical shape with radius end 20 x 25 mm, in conical shape 20 x 20 mm, 20 x 32 mm and in pointed tree shape 13 x 20 mm.

Special features:

- Long tool life and low tool wear due to hard, dimensionally stable bond.
- Economical to use due to the high edge stability even on low-speed tool drives.
- Particularly well suited to work on edges.

S_d [mm]	Grit size		Item no.	Designation
6	coarse	1	33920131	2001 O G STEEL EDGE

For universal use on materials that are difficult to machine



TOUGH, cylindrical type

These mounted points are particularly suitable for weld dressing on repair welds, reworking on turbine blades during aircraft maintenance, and regrinding of repair welds in tool and mould-making. The cylindrical shape ZY is ideal for grinding bores, radii and contours.



Special features:

- Cool grinding as the grain mix is easy to break down.
- High stock removal rates and very good tool life.
- Constant stock removal rates thanks to the self-sharpening qualities of the ceramic oxide grain.

S_d [mm]	L_2 [mm]	D [mm]	T [mm]	Grit size	USA type	Opt. RPM	Max. RPM		Item no.	Designation
3	30	4	8	100	-	150,000	175,100	10	31105145	ZY 0408 3 AWCO 100 J5V TOUGH
		5	10	100	W 153	130,700	130,700	10	31107145	ZY 0510 3 AWCO 100 J5V TOUGH
		6	13	100	W 163	93,600	93,600	10	31110145	ZY 0613 3 AWCO 100 J5V TOUGH
6	40	13	25	80	W 187	65,000	66,000	10	31125340	ZY 1325 6 AWCO 80 J5V TOUGH
		20	25	60	W 205	45,000	47,700	10	31131338	ZY 2025 6 AWCO 60 J5V TOUGH
		40	20	46	-	22,000	23,800	5	31138036	ZY 4020 6 AWCO 46 J5V TOUGH

Mounted points

For universal use on materials that are difficult to machine




TOUGH, ball type

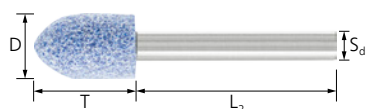
These mounted points are particularly suitable for weld dressing on repair welds, reworking on turbine blades during aircraft maintenance, and regrinding of repair welds in tool and mould-making. The ball shape KU is often used for contour grinding and backside deburring.



Special features:

- Cool grinding as the grain mix is easy to break down.
- High stock removal rates and very good tool life.
- Constant stock removal rates thanks to the self-sharpening qualities of the ceramic oxide grain.

S_d [mm]	L_2 [mm]	D [mm]	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
6	40	13	60	65,000	73,400	1	31706338	KU 13 6 AWCO 60 J5V TOUGH




TOUGH, tree type

These mounted points are particularly suitable for weld dressing on repair welds, reworking on turbine blades during aircraft maintenance, and regrinding of repair welds in tool and mould-making. The pointed tree shape SP is exceptionally well-suited for machining small holes and bores.



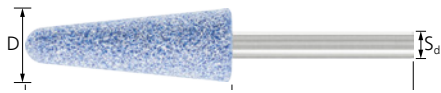
Special features:

- Cool grinding as the grain mix is easy to break down.
- High stock removal rates and very good tool life.
- Constant stock removal rates thanks to the self-sharpening qualities of the ceramic oxide grain.

S_d [mm]	L_2 [mm]	D [mm]	T [mm]	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
6	40	13	20	60	65,000	73,400	1	32107338	SP 1320 6 AWCO 60 J5V TOUGH

Mounted points

For universal use on materials that are difficult to machine



TOUGH, tapered type

These mounted points are particularly suitable for weld dressing on repair welds, reworking on turbine blades during aircraft maintenance, and regrinding of repair welds in tool and mould-making. The conical shape KE is designed for a comfortable working position during surface grinding and grinding of chamfers.

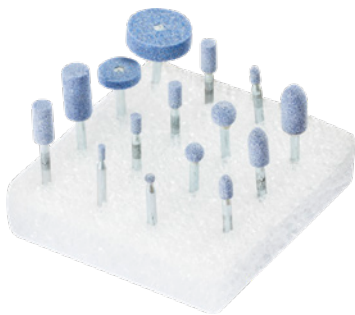


Special features:

- Cool grinding as the grain mix is easy to break down.
- High stock removal rates and very good tool life.
- Constant stock removal rates thanks to the self-sharpening qualities of the ceramic oxide grain.

3

S_d [mm]	L_2 [mm]	D [mm]	T [mm]	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
6	40	10	25	60	85,000	95,400	1	32209338	KE 1025 6 AWCO 60 J5V TOUGH
		16	45	60	52,000	52,000	10	32210338	KE 1645 6 AWCO 60 J5V TOUGH



Mounted point set 2002 TOUGH

This set is particularly suitable for weld dressing on repair welds, reworking on turbine blades during aircraft maintenance, and regrinding of repair welds in tool and mould-making. It contains 15 small mounted points with 3 mm shank diameter in the most common shapes for finishing work.

Contents:

Contains one each of the following mounted points: in cylindrical shape 2 x 5 mm, 3 x 6 mm, 4 x 8 mm, 5 x 10 mm, 6 x 13 mm, ZY 8 x 16 mm, 13 x 3 mm, 20 x 6 mm, in ball shape dia. 3 mm, dia. 6 mm, dia. 8 mm, in pointed tree shape 3 x 6 mm, 4 x 8 mm, 6 x 13 mm, 8 x 16 mm.

Special features:

- Cool grinding as the grain mix is easy to break down.
- High stock removal rates and very good tool life.
- Constant stock removal rates thanks to the self-sharpening qualities of the ceramic oxide grain.

S_d [mm]	Grit size		Item no.	Designation
3	fine	1	33920235	2002 J F TOUGH



Mounted point set 2001 TOUGH

This set is particularly suitable for weld dressing on repair welds, reworking on turbine blades during aircraft maintenance, and regrinding of repair welds in tool and mould-making. It contains 10 mounted points with 6 mm shank diameter in the most common shapes and dimensions.

Contents:

Contains one each of the following mounted points: in cylindrical shape 10 x 13 mm, 13 x 25 mm, 16 x 20 mm, 20 x 25 mm, 20 x 40 mm, 40 x 10 mm, in ball shape dia. 13, in pointed tree shape 13 x 20 mm and in conical shape 10 x 25 mm and 16 x 45 mm.

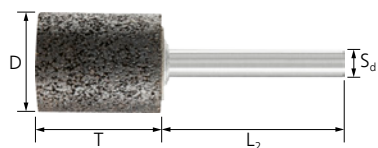
Special features:

- Cool grinding as the grain mix is easy to break down.
- High stock removal rates and very good tool life.
- Constant stock removal rates thanks to the self-sharpening qualities of the ceramic oxide grain.

S_d [mm]	Grit size		Item no.	Designation
6	coarse	1	33920135	2001 J G TOUGH

Mounted points

For edge grinding on stainless steel (INOX)




INOX EDGE, cylindrical type

Applications include weld dressing on fillet welds, removing burrs and grinding chamfers on high-temperature-resistant alloys and stainless steel components. The cylindrical shape ZY is ideal for grinding bores, radii and contours.

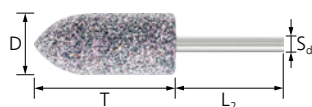


Special features:

- Due to cool grinding, particularly suitable for use on temperature-sensitive materials.
- High grinding comfort due to low-vibration grinding and high dimensional stability on edges.
- Economical to use due to the high edge stability even on low-speed tool drives.

S_d [mm]	L_2 [mm]	D [mm]	T [mm]	Grit size	USA type	Opt. RPM	Max. RPM		Item no.	Designation
6	40	13	25	46	W 187	66,000	66,000	10	31125614	ZY 1325 6 AN 46 N5B INOX EDGE
		20	50	30	W 208	25,100	25,100	10	39101106	W 208 6 AN 30 NB
		25	13	30	W 218	37,000	38,100	1	31323613	ZY 2513 6 AN 30 N5B INOX EDGE

For surface grinding on grey and nodular cast iron




Series A CAST

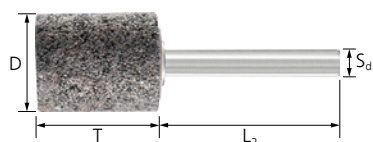
These mounted points are exceptionally well suited for cleaning workpieces and for grinding out shrinkage holes in a wide range of contours.

Special features:

- Suitable for use on surfaces and edges.
- Combined with high peripheral speeds, very well suited for surface use.
- High grinding performance and good tool life. High stock removal rates thanks to coarse grit size.

S_d [mm]	L_2 [mm]	USA type	D [mm]	T [mm]	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
6	40	A 11	22	50	30	27,600	27,600	10	35511033	A 11 6 ARN 30 K5V CAST

For edge grinding on grey and nodular cast iron




CAST EDGE cylindrical type

These mounted points are particularly good for edge grinding, for deburring and grinding out sand inclusions and metal contamination on grey and nodular cast iron. The cylindrical shape ZY is ideal for grinding bores, radii and contours.



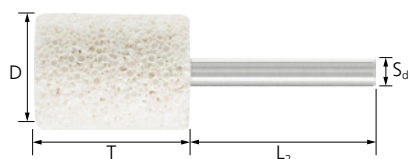
Special features:

- Highly dimensionally stable due to the high bond content.
- Economical to use due to the high edge stability even on low-speed tool drives.

S_d [mm]	L_2 [mm]	D [mm]	T [mm]	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
6	40	25	25	60	38,100	26,000	10	39101715	W 220 6 CU 60 RV

Mounted points

For universal use on plastic




RUBBER, cylindrical type

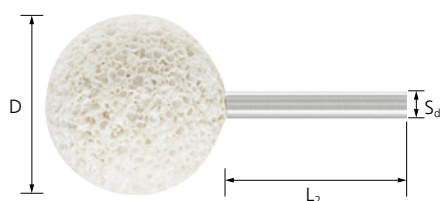
These mounted points are exceptionally well suited to removing burrs, trimming, weld dressing and roughening of soft plastics and rubber. The cylindrical shape ZY is ideal for grinding radii and contours, and for deburring work.



Special features:

- Open structure and large chip channels due to bubble grain aluminium oxide.
- Machining of temperature-sensitive materials without the addition of coolant thanks to large chip channels.
- High grinding performance.

S_d [mm]	L_2 [mm]	D [mm]	T [mm]	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
6	40	16	32	1	12,000	51,200	10	31127901	ZY 1632 6 AH 1 D12V RUBBER
		25	32	1	8,000	32,900	10	31135901	ZY 2532 6 AH 1 D12V RUBBER
		40	20	2	5,000	23,800	5	31330901	ZY 4020 6 AH 2 D12V RUBBER



RUBBER, ball type

These mounted points are exceptionally well suited to removing burrs, trimming, weld dressing and roughening of soft plastics and rubber. The ball shape KU is often used for roughening rubber surfaces in tyre repair.



Special features:

- Open structure and large chip channels due to bubble grain aluminium oxide.
- Machining of temperature-sensitive materials without the addition of coolant thanks to large chip channels.
- High grinding performance.

S_d [mm]	L_2 [mm]	D [mm]	Grit size	Opt. RPM	Max. RPM		Item no.	Designation
6	40	40	2	5,000	19,700	5	31710520	KU 40 6 AH 2 D12V RUBBER

Safety notes

- The maximum permitted peripheral speed is 35 m/s.
- For safety reasons, the maximum permitted rotational speed indicated must never be exceeded.
- Before clamping, the grinding tool must be ring tested to make sure that it does not have any cracks (undamaged grinding tools give a clear tone).



Wear eye protection!



Wear hearing protection!



Wear a dust mask!



Wear gloves!






Observe the safety notes!



Do not use if damaged!

The quick way to find the perfect tool

Material group ▼			Design ▶	UNIVERSAL	CARBIDE	HSS
Steel	Steels up to 1,200 N/mm ² (< 38 HRC)	Construction steels, carbon steels, tool steels, non-alloyed steels, case-hardened steels, tempering steels		●		○
	Hardened, heat-treated steels over 1,200 N/mm ² (> 38 HRC)	Tool steels, tempering steels, alloyed steels		○	●	●
Stainless steel (INOX)	Rust and acid-resistant steels	Austenitic and ferritic stainless steels		●		
Tungsten carbide	–	–			●	
Non-ferrous metals	Soft non-ferrous metals, non-ferrous metals	Aluminium alloys, brass, copper, zinc		●	○	
	Hard non-ferrous metals	Bronze, titanium, titanium alloys, hard aluminium alloys		○	○	
Other materials	Glass				●	

● = highly suitable ○ = suitable






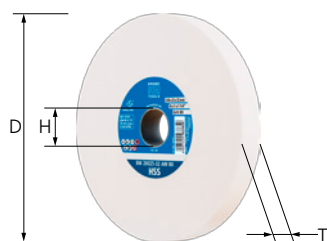
UNIVERSAL version

These bench grinding wheels are ideal for universal use in the workshop. They are suitable for working on steel, cast steel, stainless steel (INOX) and cast iron.

Special features:

- Long tool life, high dimensional stability and high abrasive performance.
- Integrated adapter sleeves for mounting on almost any bench grinder spindle.

D [mm]	Reductions [mm]	T [mm]	H [mm]	Grit size	Max. RPM		Item no.	Designation
Regular aluminium oxide (AN)								
150	1", 3/4", 5/8", 1/2", 25, 20, 16, 13	25	32	60	4,500	1	39008427	BW 15025-32 AN 60 UNIVERSAL
200	1", 3/4", 5/8", 1/2", 25, 20, 16, 13	25	51	60	3,350	1	39008441	BW 20025-51 AN 60 UNIVERSAL
250	1-1/4", 1", 3/4", 5/8", 1/2", 32, 25, 20, 16	25	51	24	2,700	1	39010123	BW 25025-51 AN 24 UNIVERSAL
				60	2,700	1	39010126	BW 25025-51 AN 60 UNIVERSAL
300	76.2, 51, 38.1, 32	50	76.2	24	2,250	1	39010128	BW 30050-76,2 AN 24 UNIVERSAL
				60	2,250	1	39010130	BW 30050-76,2 AN 60 UNIVERSAL
350	76.2, 51, 38.1, 32	50	76.2	24	1,850	1	39010131	BW 35050-76,2 AN 24 UNIVERSAL
250	1", 3/4", 5/8", 1/2", 25, 20, 16, 13	40	31.75	60	2,400	1	39008747	25040-51 AN 60 UNIVERSAL
350	1-1/4	50	38.1	60	1,800	1	39008754	35050-76,2 AN 60 UNIVERSAL




HSS design

These bench grinding wheels are exceptionally well suited for sharpening HSS pilot drills or for working on other high-alloy steels. They are suitable for working on tool steels, case-hardened steels, hardened and coated steels.



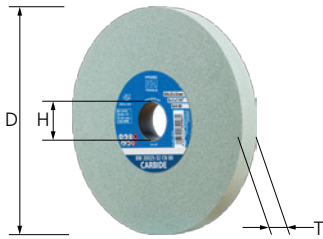
Special features:

- Long tool life, high dimensional stability and high abrasive performance.
- Integrated adapter sleeves for mounting on almost any bench grinder spindle.

D [mm]	Reductions [mm]	T [mm]	H [mm]	Grit size	Max. RPM		Item no.	Designation
White aluminium oxide (AW)								
150	1", 3/4", 5/8", 1/2", 25, 20, 16, 13	25	32	60	4,500	1	39008428	BW 15025-32 AW 60 HSS
200	1-1/4", 1", 3/4", 5/8", 1/2", 32, 25, 20, 16	25	51	60	3,350	1	39008442	BW 20025-51 AW 60 HSS

Grinding discs

Bench grinding wheels




CARBIDE design

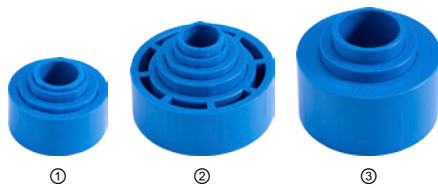
These bench grinding wheels are used on hard materials, e.g. for sharpening tungsten carbide tools and hardened steels.



Special features:

- Long tool life, high dimensional stability and high abrasive performance.
- Integrated adapter sleeves for mounting on almost any bench grinder spindle.

D [mm]	Reductions [mm]	T [mm]	H [mm]	Grit size	Max. RPM		Item no.	Designation
Silicon carbide (CN)								
150	1", 3/4", 5/8", 1/2", 25, 20, 16, 13	20	32	60	4,500	1	39008570	BW 15020-32 CN 60 CARBIDE
200	25, 20, 16	25	32	80	3,350	1	39008490	BW 20025-32 CN 80 CARBIDE
250	1", 3/4", 5/8", 1/2", 25, 20, 16, 13	25	31.75	60	2,400	1	39008767	25025-51 CN 60 CARBIDE




Reducing rings for bench grinding wheels

Reducing rings enable secure adjustment of the standard centre hole to a reduced centre hole dimension.

Special features:

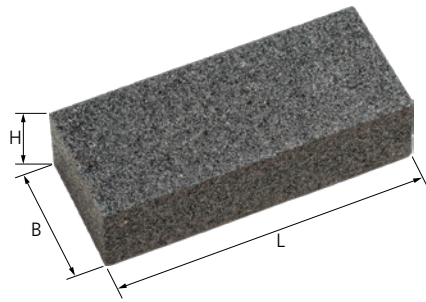
- Generally suitable for all bench grinders and bench grinding wheels.

Image	Suitable for hole diameter	Width [mm]	Dia. hole included in the set		Item no.	Designation
①	32 mm	15.4	32/25,4/19,05/15,875/12,7	1	39010150	32/25,4/19,05/15,875/12,7
②	51 mm	24.4	51/32/25,4/19,05/15,875/12,7	1	39010151	51/32/25,4/19,05/15,875/12,7
③	76.2 mm	24.4	76,2/51/38,1/32	1	39010152	76,2/51/38,1/32



Accessories for mounted points and grinding discs

Hand dressers



Dressing stone for major dressing work

The dressing stone is suitable for profiling grinding points and Poliflex mounted points.

Special features:

- For major dressing work with anti-slip rubber backing.

L [mm]	B [mm]	H [mm]		Item no.	Designation
120	50	30	5	33401001	SE 1203050 CU 30 R 5 V



Whetstone

The ceramic whetstone is particularly suitable for sharpening scythes, sickles, knives and other cutting tools.



Special features:

- The whetstone fits nicely in your hand thanks to its oval shape.
- The sharp abrasive SiC ensures very good grinding with a good surface.

L [mm]	B [mm]	H [mm]		Item no.	Designation
250	35	12	1	39009187	S 250



Roller dresser for bench grinding wheels

Ideal accessory for PFERD TOOLS bench grinding wheels if the grinding disc has become clogged or the shape of the grinding disc has changed.



Special features:

- The dressing roller is made from steel discs with U-shaped teeth.
- The curved washers between the tooth discs gives the tooth roller strength and stability.
- Axis with integrated grease fitting to guarantee a long tool life even at high peripheral speeds.

Total length [mm]	Roll width [mm]	Roll dia. [mm]	Max. wheel ø [mm]	Max. wheel thickness [mm]		Item no.	Designation
435	39	55	500	63	1	33300001	AR 55x39x12

3



Accessories for mounted points and grinding discs


Hand dressers



Rod dresser for bench grinding wheels

The SiC rod dresser is an affordable alternative for dressing bench grinding wheels. A stainless steel tube protects the SiC rod against breakage and makes the tool more robust.



Total length [mm]	Diameter [mm]		Item no.	Designation
250	22	1	33300004	AR 22x250

