

Mounted points



Mounted points

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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.

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



Bench grinding wheels

PFERD offers a very wide range of high-quality bench grinding wheels for working with a large variety of materials and for many different applications. Bench grinding wheels are available with different dimensions, grains and abrasives.

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



Grinding and polishing stones

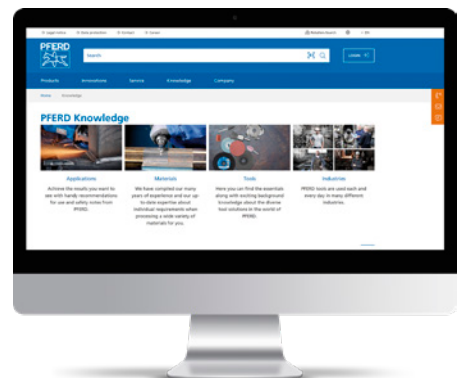
PFERD grinding and polishing stones are versatile tools for finish machining on forms in tool and die-making. They are used for step-by-step fine grinding after machining or after electrical discharge machining (EDM) to grind in a brushed finish/polish in the demoulding direction or to prepare for high-gloss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

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



Find additional in-depth information online

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



Mounted points

Quick product selection guide



Quick product selection guide

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 appropriate type is shown in the horizontal row.

3



| ① Material group | | Bond ▶ | Resinoid bond | | Vitrified bond | | | | | | | | |
|---------------------------|--|--|--|---|---|--|---|--|--|--|---|---|---|
| | | | INOX | INOX EDGE | RUBBER | ALU | TOUGH | CAST | CAST STEEL | STEEL | STEEL EDGE | CAST EDGE | |
| ③ Mounted point type ▶ | | Abrasive ▶ | ADW  | AN  | AH  | CN  | AWCO  | ARN  | ADR  | ADW  | AR  | CU  | |
| Rec. peripheral speed ▶ | | 6,900–9,800 SFPM | 6,900–9,800 SFPM | 1,000–4,000 SFPM | 4,000–7,800 SFPM | 6,900–9,800 SFPM | 6,900–9,800 SFPM | 6,900–9,800 SFPM | 6,900–9,800 SFPM | 5,000–7,800 SFPM | 6,900–9,800 SFPM | | |
| ② Application ▼ | | | | | | | | | | | | | |
| Steel, cast steel | Steels up to 370 HV (< 38 HRC) | Construction steels, carbon steels, tool steels, non-alloyed steels, case-hardened steels, tempering steels | Universal | | | | | | | ● | | | |
| | | | Surface | ○ | | | | | | | ● | ○ | |
| | | | Edges | | ○ | | | | | | | ○ | ● |
| | Hardened, heat-treated steels over 370 HV (> 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 | Aluminum alloys, brass, copper, zinc | Universal | ○ | | | ● | | | | | | |
| | Hard non-ferrous metals | Bronze, titanium, titanium alloys, hard aluminum 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, with nodular graphite/nodular cast iron, white annealed cast iron, black annealed cast iron | Surface | ○ | ○ | | | | ● | ○ | | ○ | |
| | | | Edges | ○ | ○ | | | | | ○ | ○ | | ○ |
| Plastics, other materials | Fibre-reinforced plastics, rubber, wood | Fibre-reinforced plastics, thermoplastics, rubber, wood | Universal | | | ● | ○ | | | | | | |

● = highly recommended ○ = recommended

Mounted points

General information



Applications of mounted points



3

General use

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

Surface grinding

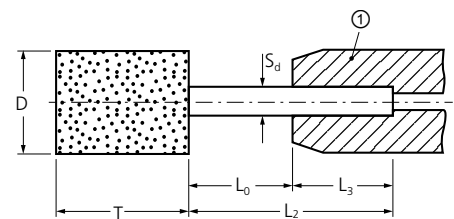
In surface grinding, the mounted points are subject to lower loads. The mounted point bond is comparatively soft and has been designed to give high stock removal rates.

Edge grinding

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

Dimensional specifications

- 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 mounted points are approved for a maximum operating speed of 9,800 SFPM. The maximum permitted rotational speeds for the various shank lengths and shank diameters are defined in DIN 69170 based on EN 12413.

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



Wear eye protection!



Wear gloves!



Wear hearing protection!



Observe the safety notes!



Wear dust respirators!

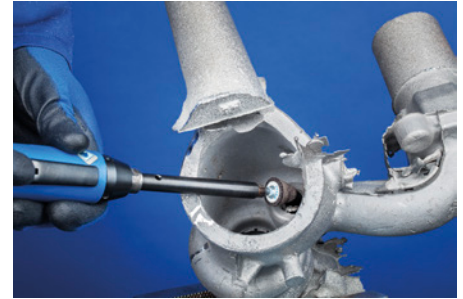
Custom-made products

If you cannot find the solution for your particular application in our extensive catalogue range, we can produce mounted points to meet your requirements in premium PFERD quality specifically for your application upon request. Contact your local sales representatives who will be happy to assist you.

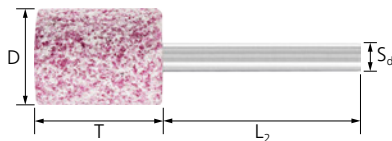


Extensions for drive spindles

Mounted points with a shank diameter of 1/8" and 1/4" 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 power tool (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.



For universal use on steel and cast steel




STEEL cylindrical mounted points

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



Special features:

- Good grinding performance and stock removal rate in universal use on steel workpieces.
- High stock removal rate results in increased productivity.
- Particularly suitable for work on surfaces.

| USA type | D [Inch] | T [Inch] | Grit size | Opt. RPM 1/2" overhang | Max. RPM 1/2" overhang | Max. RPM 1" overhang |  | Item no. | EDP no. |
|---|----------|----------|-----------|------------------------|------------------------|----------------------|---|----------|---------|
| Shank diameter 1/4" x 1-1/2" [S_d x L₂] | | | | | | | | | |
| W 187 | 1/2 | 1 | 46 | 40,500 | 40,500 | 30,000 | 10 | 39101636 | 33694 |
| W 189 | 1/2 | 2 | 46 | 24,000 | 24,000 | 18,750 | 10 | 39101638 | 33724 |
| W 208 | 3/4 | 2 | 30 | 18,750 | 18,750 | 15,370 | 10 | 39101648 | 34006 |
| W 220 | 1 | 1 | 30 | 25,500 | 25,500 | 19,120 | 10 | 39101653 | 34186 |
| W 222 | 1 | 2 | 30 | 15,900 | 15,900 | 12,370 | 10 | 39101655 | 34216 |
| W 236 | 1-1/2 | 1/2 | 30 | 22,600 | 25,470 | 25,470 | 5 | 39101657 | 34426 |
| W 239 | 1-1/2 | 2 | 30 | 12,750 | 12,750 | 9,900 | 5 | 39101998 | 34471 |
| W 242 | 2 | 1 | 46 | 17,200 | 17,200 | 19,100 | 5 | 39101318 | 34512 |

Mounted points

For universal use on steel and cast steel




Series A STEEL

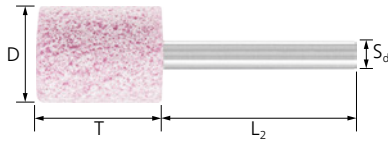
These mounted points are ideal for grinding high-speed steel (HSS) moulded parts and weld dressing of weld seams on a wide range of different contours on steel constructions.

Special features:

- Good grinding performance and stock removal rate in universal use on steel workpieces.
- High stock removal rate results in increased productivity.
- Particularly suitable for work on surfaces.



| USA type | D [Inch] | T [Inch] | Grit size | Opt. RPM 1/2" overhang | Max. RPM 1/2" overhang | Max. RPM 1" overhang |  | Item no. | EDP no. |
|---|----------|----------|-----------|---------------------------|---------------------------|-------------------------|---|----------|---------|
| Shank diameter 1/4" x 1-1/2" [S_d x L₂] | | | | | | | | | |
| A 1 | 3/4 | 2-1/2 | 30 | 19,800 | 19,800 | 16,500 | 10 | 39105041 | 31000 |
| A 2 | 1 | 1-1/4 | 30 | 34,400 | 38,200 | 32,620 | 10 | 39101552 | 31010 |
| A 3 | 1 | 2-3/4 | 30 | 16,100 | 16,100 | 13,080 | 10 | 39101950 | 31020 |
| A 4 | 1-1/4 | 1-1/4 | 30 | 26,900 | 30,560 | 24,750 | 5 | 39101692 | 31030 |
| A 5 | 3/4 | 1-1/8 | 30 | 45,000 | 45,000 | 33,750 | 10 | 39101598 | 31040 |
| A 11 | 7/8 | 2 | 30 | 19,860 | 19,860 | 15,100 | 10 | 39105047 | 31060 |
| A 12 | 11/16 | 1-1/4 | 30 | 48,000 | 48,000 | 35,250 | 10 | 39101600 | 31070 |
| A 25 | 1 | 1 | 30 | 34,400 | 35,620 | 27,370 | 10 | 39101996 | 31150 |
| A 31 | 1-3/8 | 1 | 30 | 24,600 | 27,780 | 26,250 | 5 | 39101601 | 31170 |
| A 38 | 1 | 1 | 30 | 34,400 | 34,500 | 26,250 | 10 | 39101603 | 31240 |




STEEL EDGE cylindrical mounted points

These mounted points are particularly ideal 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 is ideal for grinding bores, radii and contours.



Special features:

- Long service life and low tool wear due to hard, dimensionally stable bond.
- Cost-effective due to high edge stability, even on low-speed power tools.
- Ideal for work on edges.

| USA type | D [Inch] | T [Inch] | Grit size | Opt. RPM 1/2" overhang | Max. RPM 1/2" overhang | Max. RPM 1" overhang |  | Item no. | EDP no. |
|---|----------|----------|-----------|------------------------|------------------------|----------------------|---|----------|---------|
| Shank diameter 1/8" x 1-1/4" [S_d x L₂] | | | | | | | | | |
| W 154 | 3/16 | 1/2 | 60 | 70,500 | 70,500 | 45,600 | 10 | 39101679 | 33203 |
| W 163 | 1/4 | 1/2 | 60 | 60,000 | 60,000 | 38,020 | 10 | 39101535 | 33338 |
| | | | 100 | 60,000 | 60,000 | 38,020 | 10 | 39101936 | 33344 |
| W 170 | 5/16 | 1/2 | 80 | 52,500 | 52,500 | 33,000 | 10 | 35330278 | 33446 |
| Shank diameter 1/4" x 1-1/2" [S_d x L₂] | | | | | | | | | |
| W 179 | 3/8 | 1-1/4 | 46 | 45,750 | 45,750 | 33,750 | 10 | 39101527 | 33575 |
| W 187 | 1/2 | 1 | 46 | 40,500 | 40,500 | 30,000 | 10 | 39101492 | 33695 |
| W 189 | 1/2 | 2 | 46 | 24,000 | 24,000 | 18,750 | 10 | 39101329 | 33725 |
| W 205 | 3/4 | 1 | 60 | 34,500 | 34,500 | 25,870 | 10 | 39101501 | 33968 |
| W 207 | 3/4 | 1-1/2 | 30 | 24,000 | 24,000 | 18,520 | 10 | 39101304 | 33992 |
| W 215 | 1 | 1/8 | 60 | 26,700 | 38,200 | 38,200 | 10 | 39101740 | 34118 |
| W 220 | 1 | 1 | 30 | 25,500 | 25,500 | 19,120 | 10 | 39105059 | 34187 |
| W 221 | 1 | 1-1/2 | 30 | 19,120 | 19,120 | 14,620 | 10 | 39101305 | 34202 |
| | | | 60 | 15,900 | 15,900 | 12,370 | 10 | 39101079 | 34217 |
| W 222 | 1 | 2 | 30 | 15,900 | 15,900 | 12,370 | 10 | 39101291 | 34223 |
| | | | 60 | 15,900 | 15,900 | 12,370 | 10 | 39101291 | 34223 |
| W 237 | 1-1/2 | 1 | 30 | 16,700 | 22,500 | 17,620 | 5 | 39100968 | 34442 |
| W 238 | 1-1/2 | 1-1/2 | 30 | 15,600 | 15,600 | 12,000 | 5 | 39101375 | 34457 |
| | | | 60 | 15,600 | 15,600 | 12,000 | 5 | 39101340 | 34463 |
| W 239 | 1-1/2 | 2 | 30 | 12,750 | 12,750 | 9,900 | 5 | 39101833 | 34472 |
| W 242 | 2 | 1 | 30 | 19,100 | 19,100 | 13,400 | 5 | 39100997 | 34517 |
| | | | 60 | 19,100 | 19,100 | 13,400 | 5 | 39101290 | 34523 |



Mounted points

For edge grinding on steel and cast steel



Series A STEEL EDGE


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

Special features:

- Long service life and low tool wear due to hard, dimensionally stable bond.
- Cost-effective due to high edge stability, even on low-speed power tools.
- Ideal for work on edges.

3



| USA type | D [Inch] | T [Inch] | Grit size | Opt. RPM 1/2" overhang | Max. RPM 1/2" overhang | Max. RPM 1" overhang |  | Item no. | EDP no. |
|---|----------|----------|-----------|---------------------------|---------------------------|-------------------------|---|----------|---------|
| Shank diameter 1/4" x 1-1/2" [S_d x L₂] | | | | | | | | | |
| A 1 | 3/4 | 2-1/2 | 30 | 19,800 | 19,800 | 16,500 | 10 | 39105042 | 31001 |
| A 2 | 1 | 1-1/4 | 30 | 26,000 | 38,200 | 32,620 | 10 | 39105043 | 31011 |
| A 3 | 1 | 2-3/4 | 30 | 16,100 | 16,100 | 13,080 | 10 | 39105044 | 31021 |
| A 4 | 1-1/4 | 1-1/4 | 30 | 21,000 | 30,560 | 24,750 | 5 | 39105045 | 31031 |
| A 5 | 3/4 | 1-1/8 | 30 | 35,200 | 45,000 | 33,750 | 10 | 39105046 | 31041 |
| A 6 | 3/4 | 1-1/8 | 30 | 35,200 | 39,000 | 29,700 | 10 | 39101553 | 31051 |
| A 11 | 7/8 | 2 | 30 | 19,860 | 19,860 | 15,100 | 10 | 39105048 | 31061 |
| A 12 | 11/16 | 1-1/4 | 30 | 40,000 | 48,000 | 35,250 | 10 | 39105050 | 31071 |
| A 15 | 1/4 | 1-1/16 | 60 | 72,750 | 72,750 | 47,620 | 10 | 39105051 | 31104 |
| A 21 | 1 | 1 | 30 | 26,000 | 34,500 | 26,250 | 10 | 39105052 | 31111 |
| A 24 | 1/4 | 3/4 | 60 | 76,500 | 76,500 | 49,500 | 10 | 39105053 | 31144 |
| A 26 | 5/8 | 5/8 | 30 | 41,800 | 61,120 | 46,500 | 10 | 39101960 | 31161 |
| A 36 | 1-5/8 | 3/8 | 60 | 16,000 | 23,520 | 23,520 | 5 | 39105055 | 31224 |
| A 37 | 1-1/4 | 1/4 | 30 | 21,000 | 30,560 | 30,560 | 5 | 39105056 | 31234 |
| A 38 | 1 | 1 | 30 | 26,700 | 34,500 | 26,250 | 10 | 39101605 | 31241 |
| | | | 60 | 26,700 | 34,500 | 26,250 | 10 | 39101292 | 31244 |




Series B STEEL EDGE

These mounted points are ideal for edge grinding and for deburring work, 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 service life and low tool wear due to hard, dimensionally stable bond.
- Cost-effective due to high edge stability, even on low-speed power tools.
- Ideal for work on edges.

| USA type | D [Inch] | T [Inch] | Grit size | Opt. RPM 1/2" overhang | Max. RPM 1/2" overhang | Max. RPM 1" overhang |  | Item no. | EDP no. |
|---|----------|----------|-----------|------------------------|------------------------|----------------------|---|----------|---------|
| Shank diameter 1/8" x 1-1/4" [S_d x L₂] | | | | | | | | | |
| B 42 | 1/2 | 3/4 | 46 | 33,750 | 33,750 | 23,250 | 10 | 39101704 | 32310 |
| B 43 | 1/4 | 5/16 | 100 | 81,370 | 81,370 | 51,000 | 10 | 39101796 | 32328 |
| B 51 | 7/16 | 3/4 | 80 | 45,370 | 45,370 | 28,500 | 10 | 39101846 | 32375 |
| B 52 | 3/8 | 3/4 | 46 | 45,370 | 45,370 | 28,500 | 10 | 39101836 | 32380 |
| | | | 80 | 45,370 | 45,370 | 28,500 | 10 | 39102034 | 32385 |
| B 53 | 5/16 | 5/8 | 60 | 60,000 | 60,000 | 38,020 | 10 | 39101673 | 32392 |
| B 54 | 1/4 | 1/2 | 100 | 60,000 | 60,000 | 38,020 | 10 | 39101565 | 32408 |
| B 97 | 1/8 | 3/8 | 100 | 105,000 | 105,000 | 64,500 | 10 | 39102036 | 32658 |
| B 121 | 1/2 | 1/2 | 80 | 45,370 | 45,370 | 28,500 | 10 | 39102031 | 32785 |
| B 122 | 3/8 | 3/8 | 80 | 61,650 | 61,650 | 37,720 | 10 | 39101932 | 32795 |
| B 123 | 3/16 | 3/16 | 100 | 104,250 | 104,250 | 61,820 | 10 | 39105057 | 32808 |
| B 124 | 1/8 | 1/8 | 100 | 105,000 | 105,000 | 64,500 | 10 | 39102011 | 32818 |
| B 125 | 1/4 | 1/4 | 100 | 81,370 | 81,370 | 51,000 | 10 | 39105058 | 32827 |
| B 131 | 1/2 | 1/2 | 80 | 34,500 | 34,500 | 22,500 | 10 | 39101334 | 32835 |
| B 132 | 3/8 | 1/2 | 46 | 45,370 | 45,370 | 28,500 | 10 | 39101402 | 32840 |
| B 135 | 1/4 | 1/2 | 100 | 60,000 | 60,000 | 38,020 | 10 | 39101295 | 32878 |



23-piece STEEL EDGE mounted point set


The set is exceptionally well suited for grinding high-speed steel (HSS) moulded parts and weld dressing of weld seams on steel constructions. It contains 23 mounted points with 1/4" shank diameter in the most common shapes and dimensions.

Contents:

Contains five each of the following mounted points: A 1, A 3, A 11, W 222 and three mounted points of type W 242.

Special features:

- Good grinding performance and stock removal rate in universal use on steel workpieces.
- High stock removal rate results in increased productivity.
- Ideal for work on edges.

| S _d [Inch] | Grit size |  | Item no. | EDP no. |
|-----------------------|-----------|---|----------|---------|
| 1/4 | 30 | 1 | 39008833 | 39000 |

Mounted points

For edge grinding on steel and cast steel



50-piece STEEL EDGE mounted point set

The set is exceptionally well suited for edge grinding and for deburring work, as well as for grinding chamfers for weld seam preparation and weld dressing on contours. It contains 50 mounted points with 1/4" shank diameter in the most common shapes and dimensions.


Contents:

Contains five each of the following mounted points: A 1, A 4, A 12, A 15, A 21, A 24, A 37, W 189, W 215 and W 220.

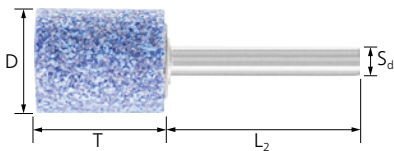
- High stock removal rate results in increased productivity.
- Ideal for work on edges.

Special features:

- Good grinding performance and stock removal rate in universal use on steel workpieces.

| S_d [Inch] | Grit size |  | Item no. | EDP no. |
|-----------------|-----------|---|----------|---------|
| 1/4 | 30/60 | 1 | 39008834 | 39005 |

For universal use on materials that are difficult to machine




TOUGH, cylindrical shape

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




Special features:

- 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.

| USA type | D [Inch] | T [Inch] | Grit size | Opt. RPM 1/2" over- hang | Max. RPM 1/2" over- hang | Max. RPM 1" overhang |  | Item no. | EDP no. |
|---|-------------|-------------|-----------|--------------------------------|--------------------------------|-------------------------|---|----------|---------|
| Shank diameter 1/8" x 1-1/4" [S_d x L_2] | | | | | | | | | |
| W 154 | 3/16 | 1/2 | 60 | 70,500 | 70,500 | 45,600 | 10 | 39102075 | 30127 |
| | 1/5 | 1/2 | 80 | 70,500 | 70,500 | 45,600 | 10 | 35314281 | 30128 |
| W 163 | 1/4 | 1/2 | 60 | 60,000 | 60,000 | 38,020 | 10 | 39102076 | 30131 |
| | | | 80 | 60,000 | 60,000 | 38,020 | 10 | 35323281 | 30132 |
| W 164 | 1/4 | 3/4 | 60 | 45,900 | 45,900 | 30,000 | 10 | 39102077 | 30133 |
| | | | 80 | 45,900 | 45,900 | 30,000 | 10 | 35324281 | 30134 |
| W 170 | 5/16 | 1/2 | 60 | 52,500 | 52,500 | 33,000 | 10 | 39102078 | 30135 |
| | | | 80 | 52,500 | 52,500 | 33,000 | 10 | 35330281 | 30136 |
| W 185 | 1/2 | 1/2 | 60 | 34,500 | 34,500 | 22,500 | 10 | 39102079 | 30145 |
| | | | 80 | 34,500 | 34,500 | 22,500 | 10 | 35345281 | 30146 |
| W 215 | 1 | 1/8 | 60 | 34,400 | 38,200 | 24,900 | 10 | 39102080 | 30165 |
| | | | 80 | 38,200 | 38,200 | 24,900 | 10 | 35375281 | 30168 |
| Shank diameter 1/4" x 1-1/2" [S_d x L_2] | | | | | | | | | |
| W 179 | 3/8 | 1-1/4 | 46 | 45,750 | 45,750 | 33,750 | 10 | 35439381 | 30141 |
| | | | 80 | 45,750 | 45,750 | 33,750 | 10 | 39102081 | 30142 |

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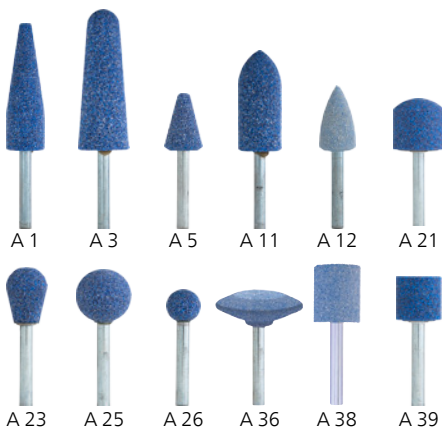
| USA type | D [Inch] | T [Inch] | Grit size | Opt. RPM 1/2" overhang | Max. RPM 1/2" overhang | Max. RPM 1" overhang |  | Item no. | EDP no. |
|----------|----------|----------|-----------|------------------------|------------------------|----------------------|---|----------|---------|
| W 189 | 1/2 | 2 | 46 | 24,000 | 24,000 | 18,750 | 10 | 35449281 | 30151 |
| | | | 80 | 24,000 | 24,000 | 18,750 | 10 | 35449279 | 30153 |
| W 218 | 1 | 1/2 | 46 | 35,000 | 38,200 | 32,770 | 10 | 35478381 | 30167 |
| | | | 80 | 35,000 | 38,200 | 32,770 | 10 | 39102082 | 30166 |
| W 220 | 1 | 1 | 46 | 25,500 | 25,500 | 19,120 | 10 | 35480281 | 30169 |
| | | | 80 | 25,500 | 25,500 | 19,120 | 10 | 39102083 | 30170 |
| W 222 | 1 | 2 | 46 | 15,900 | 15,900 | 12,370 | 10 | 35482281 | 30175 |
| | | | 80 | 15,900 | 15,900 | 12,370 | 10 | 39102084 | 30176 |
| W 236 | 1-1/2 | 1/2 | 46 | 22,000 | 25,470 | 25,470 | 5 | 39102085 | 30182 |
| | | | 80 | 22,000 | 25,470 | 25,470 | 5 | 35490279 | 30183 |
| W 239 | 1-1/2 | 2 | 46 | 12,750 | 12,750 | 9,900 | 5 | 35492281 | 30188 |
| | | | 80 | 12,750 | 12,750 | 9,900 | 5 | 39102086 | 30189 |
| W 242 | 2 | 1 | 46 | 19,100 | 19,100 | 17,200 | 5 | 35493281 | 30191 |
| | | | 80 | 19,100 | 19,100 | 17,200 | 5 | 39102087 | 30192 |




Series A TOUGH

Special features:

- The self-sharpening properties of the ceramic oxide grain provide consistent stock removal rates throughout the life of the product.
- High stock removal rate results in increased productivity.



| USA type | D [Inch] | T [Inch] | Grit size | Opt. RPM 1/2" overhang | Max. RPM 1/2" overhang | Max. RPM 1" overhang |  | Item no. | EDP no. |
|---|----------|----------|-----------|------------------------|------------------------|----------------------|---|----------|---------|
| Shank diameter 1/4" x 1-1/2" [S_d x L₂] | | | | | | | | | |
| A 1 | 3/4 | 2-1/2 | 46 | 19,800 | 19,800 | 16,500 | 10 | 35001281 | 30000 |
| | | | 80 | 19,800 | 19,800 | 16,500 | 10 | 39102088 | 30001 |
| A 3 | 1 | 2-3/4 | 46 | 16,100 | 16,100 | 13,080 | 10 | 35003281 | 30003 |
| | | | 80 | 16,100 | 16,100 | 13,080 | 10 | 39102089 | 30004 |
| A 5 | 3/4 | 1-1/8 | 46 | 45,000 | 45,000 | 33,750 | 10 | 35005281 | 30006 |
| | | | 80 | 45,000 | 45,000 | 33,750 | 10 | 39102090 | 30007 |
| A 11 | 7/8 | 2 | 46 | 19,860 | 19,860 | 15,100 | 10 | 35011281 | 30010 |
| | | | 80 | 19,860 | 19,860 | 15,100 | 10 | 39102091 | 30011 |
| A 12 | 11/16 | 1-1/4 | 46 | 48,000 | 48,000 | 35,250 | 10 | 35012281 | 30012 |
| | | | 80 | 48,000 | 48,000 | 35,250 | 10 | 39102092 | 30013 |
| A 21 | 1 | 1 | 46 | 34,400 | 34,500 | 26,250 | 10 | 35021281 | 30017 |
| | | | 80 | 34,400 | 34,500 | 26,250 | 10 | 39102093 | 30018 |
| A 23 | 3/4 | 1 | 46 | 39,370 | 39,370 | 30,370 | 10 | 35023281 | 30020 |
| | | | 80 | 39,370 | 39,370 | 30,370 | 10 | 39102094 | 30021 |
| A 25 | 1 | 1 | 46 | 34,000 | 35,620 | 27,370 | 10 | 39102095 | 30022 |
| | | | 80 | 34,000 | 35,620 | 27,370 | 10 | 35025279 | 30023 |

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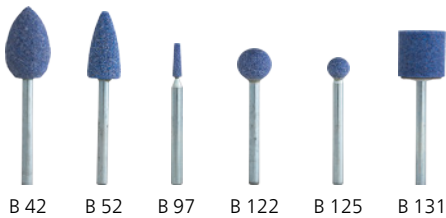
Mounted points

For universal use on materials that are difficult to machine



| USA type | D [Inch] | T [Inch] | Grit size | Opt. RPM 1/2" over- hang | Max. RPM 1/2" over- hang | Max. RPM 1" overhang | | Item no. | EDP no. |
|----------|----------|----------|-----------|--------------------------------|--------------------------------|-------------------------|----|----------|---------|
| A 26 | 5/8 | 5/8 | 46 | 53,700 | 61,120 | 46,500 | 10 | 35026281 | 30024 |
| | | | 80 | 53,700 | 61,120 | 46,500 | 10 | 39102096 | 30025 |
| A 36 | 1-5/8 | 3/8 | 46 | 21,000 | 23,520 | 23,520 | 10 | 35036281 | 30031 |
| | | | 80 | 21,000 | 23,520 | 23,520 | 5 | 35036279 | 30032 |
| A 38 | 1 | 1 | 46 | 34,500 | 34,500 | 26,250 | 10 | 39102097 | 30033 |
| | | | 80 | 34,500 | 34,500 | 26,250 | 10 | 35037379 | 30034 |
| A 39 | 3/4 | 3/4 | 46 | 45,200 | 47,250 | 35,250 | 10 | 35038281 | 30035 |
| | | | 80 | 45,200 | 47,250 | 35,250 | 10 | 39102098 | 30036 |

3



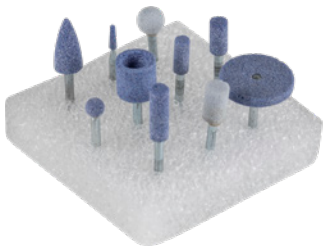
Series B TOUGH

Special features:

- 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.

| USA type | D [Inch] | T [Inch] | Grit size | Opt. RPM 1/2" over- hang | Max. RPM 1/2" over- hang | Max. RPM 1" overhang | | Item no. | EDP no. |
|---|----------|----------|-----------|--------------------------------|--------------------------------|-------------------------|----|----------|---------|
| Shank diameter 1/8" x 1-1/4" [S_d x L₂] | | | | | | | | | |
| B 42 | 1/2 | 3/4 | 60 | 33,750 | 33,750 | 23,250 | 10 | 39102099 | 30053 |
| | | | 80 | 33,750 | 33,750 | 23,250 | 10 | 35102281 | 30054 |
| B 52 | 3/8 | 3/4 | 60 | 45,370 | 45,370 | 28,500 | 10 | 39102100 | 30064 |
| | | | 80 | 45,370 | 45,370 | 28,500 | 10 | 35112281 | 30065 |
| B 97 | 1/8 | 3/8 | 60 | 105,000 | 105,000 | 64,500 | 10 | 39102101 | 30082 |
| | | | 80 | 105,000 | 105,000 | 64,500 | 10 | 35157281 | 30083 |
| B 122 | 3/8 | 3/8 | 60 | 61,650 | 61,650 | 37,720 | 10 | 39102102 | 30090 |
| | | | 80 | 61,650 | 61,650 | 37,720 | 10 | 35182281 | 30091 |
| B 125 | 1/4 | 1/4 | 60 | 81,370 | 81,370 | 51,000 | 10 | 39102103 | 30094 |
| | | | 80 | 81,370 | 81,370 | 51,000 | 10 | 35185281 | 30095 |
| B 131 | 1/2 | 1/2 | 60 | 34,500 | 34,500 | 22,500 | 10 | 39102104 | 30096 |
| | | | 80 | 34,500 | 34,500 | 22,500 | 10 | 35187281 | 30097 |



TOUGH mounted point set, 10-piece, fine

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 1/8" shank diameter in the most common shapes and dimensions for finishing work.

Contents:

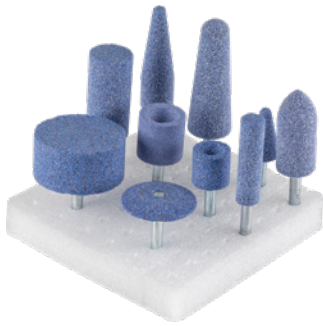
Contains one each of the following mounted points: B 52, B 97, B 122, B 125, B 131, W 154, W 163, W 134, W 170 and W 215.

Special features:

- 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.

| S _d [Inch] | Grit size | | Item no. | EDP no. |
|-----------------------|-----------|---|----------|---------|
| 1/8 | 80 | 1 | 33920205 | 39002 |



TOUGH mounted point set, 10-piece, coarse

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 a 1/4" shank diameter in the most common shapes and dimensions for coarse work.


Contents:

Contains one each of the following mounted points: A 1, A 3, A 5, A 11, A 36, A 38, A 39, W 189, W 222 and W 242.

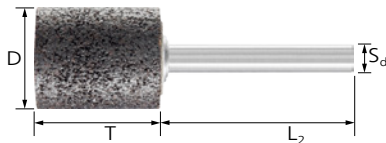
Special features:

- 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.

| S_d [Inch] | Grit size |  | Item no. | EDP no. |
|-----------------|-----------|---|----------|---------|
| 1/4 | 46 | 1 | 33920210 | 39003 |

For universal use on stainless steel (INOX)




INOX cylindrical shape

These mounted points are used for rough grinding of stainless steel (INOX) castings and grinding of moulded parts made of high-temperature-resistant alloys. The cylindrical shape is ideal for grinding bores, radii and contours.



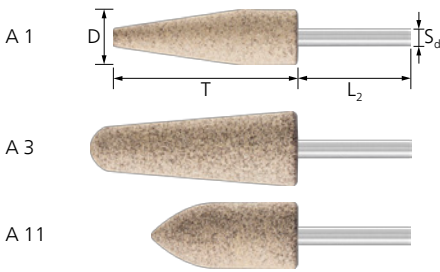
Special features:

- Ideal for use on temperature-sensitive materials due to cool-grinding properties.
- Increased operator comfort due to low vibration grinding

| USA type | D [Inch] | T [Inch] | Grit size | Opt. RPM 1/2" overhang | Max. RPM 1/2" overhang | Max. RPM 1" overhang |  | Item no. | EDP no. |
|---|-------------|-------------|-----------|---------------------------|---------------------------|-------------------------|---|----------|---------|
| Shank diameter 1/4" x 1-1/2" [S_d x L_2] | | | | | | | | | |
| W 222 | 1 | 2 | 30 | 15,900 | 15,900 | 12,370 | 10 | 39101663 | 35382 |
| W 236 | 1-1/2 | 1/2 | 30 | 22,900 | 25,470 | 25,470 | 5 | 39101664 | 35409 |

Mounted points

For universal use on stainless steel (INOX)




Series A INOX

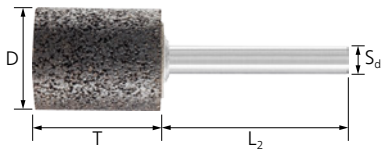
These mounted points are used for rough grinding of a wide range of different contours on stainless steel (INOX) castings and grinding of moulded parts made of high-temperature-resistant alloys.

Special features:

- Ideal for use on temperature-sensitive materials due to cool-grinding properties.
- Increased operator comfort due to low vibration grinding

| USA type | D [Inch] | T [Inch] | Grit size | Opt. RPM 1/2" overhang | Max. RPM 1/2" overhang | Max. RPM 1" overhang |  | Item no. | EDP no. |
|---|----------|----------|-----------|------------------------|------------------------|----------------------|---|----------|---------|
| Shank diameter 1/4" x 1-1/2" [S_d x L₂] | | | | | | | | | |
| A 1 | 3/4 | 2-1/2 | 30 | 19,800 | 19,800 | 16,500 | 10 | 39101658 | 35100 |
| A 3 | 1 | 2-3/4 | 30 | 16,100 | 16,100 | 13,080 | 10 | 39101659 | 35104 |
| A 11 | 7/8 | 2 | 30 | 19,860 | 19,860 | 15,100 | 10 | 39101660 | 35112 |

For edge grinding on stainless steel (INOX)




INOX EDGE, cylindrical shape

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



Special features:

- Ideal for use on temperature-sensitive materials due to cool-grinding properties.
- Increased comfort due to low-vibration grinding and high dimensional stability on edges.
- Cost-effective due to high edge stability, even on low-speed power tools.

| USA type | D [Inch] | T [Inch] | Grit size | Opt. RPM 1/2" overhang | Max. RPM 1/2" overhang | Max. RPM 1" overhang |  | Item no. | EDP no. |
|---|----------|----------|-----------|------------------------|------------------------|----------------------|---|----------|---------|
| Shank diameter 1/4" x 1-1/2" [S_d x L₂] | | | | | | | | | |
| W 189 | 1/2 | 2 | 46 | 24,000 | 24,000 | 18,750 | 10 | 39101376 | 35337 |
| W 220 | 1 | 1 | 30 | 25,500 | 25,500 | 19,120 | 10 | 39101248 | 35379 |
| W 222 | 1 | 2 | 30 | 15,900 | 15,900 | 12,370 | 10 | 39101347 | 35383 |
| W 236 | 1-1/2 | 1/2 | 30 | 22,900 | 25,470 | 25,470 | 5 | 39101547 | 35410 |




Series A INOX EDGE

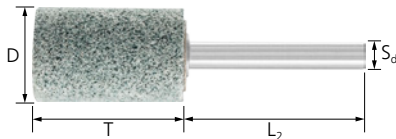
Applications include weld dressing on fillet welds, removing burrs and grinding chamfers with different contours on high-temperature resistant alloys and stainless steel components.

Special features:

- Ideal for use on temperature-sensitive materials due to cool-grinding properties.
- Increased comfort due to low-vibration grinding and high dimensional stability on edges.
- Cost-effective due to high edge stability, even on low-speed power tools.

| USA type | D [Inch] | T [Inch] | Grit size | Opt. RPM 1/2" overhang | Max. RPM 1/2" overhang | Max. RPM 1" overhang |  | Item no. | EDP no. |
|---|----------|----------|-----------|------------------------|------------------------|----------------------|---|----------|---------|
| Shank diameter 1/4" x 1-1/2" [S_d x L₂] | | | | | | | | | |
| A 1 | 3/4 | 2-1/2 | 30 | 19,800 | 19,800 | 16,500 | 10 | 39101387 | 35101 |
| A 3 | 1 | 2-3/4 | 46 | 16,100 | 16,100 | 13,080 | 10 | 39100794 | 35105 |
| A 4 | 1-1/4 | 1-1/4 | 30 | 28,600 | 30,560 | 24,750 | 5 | 39101536 | 35107 |
| A 5 | 3/4 | 1-1/8 | 30 | 45,000 | 45,000 | 33,750 | 10 | 39101537 | 35109 |
| A 11 | 7/8 | 2 | 30 | 19,860 | 19,860 | 15,100 | 10 | 39105049 | 35113 |
| A 12 | 11/16 | 1-1/4 | 30 | 48,000 | 48,000 | 35,250 | 10 | 39101538 | 35115 |
| A 21 | 1 | 1 | 30 | 34,500 | 34,500 | 26,250 | 10 | 39101539 | 35123 |
| A 38 | 1 | 1 | 46 | 34,500 | 34,500 | 26,250 | 10 | 39101541 | 35149 |

For universal use on soft non-ferrous metals




ALU cylindrical mounted points

These mounted points are used to remove burrs on cast aluminum parts and for chamfering on aluminum profiles for weld-seam preparation. The cylindrical shape is ideal for grinding bores, radii and contours.



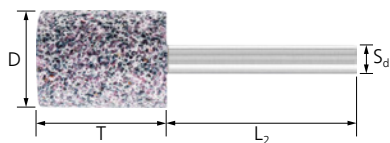
Special features:

- The unique abrasive grain formula prevents clogging when working on soft, lubricating, or tough materials.
- Excellent grinding performance and high stock removal rate.

| USA type | D [Inch] | T [Inch] | Grit size | Opt. RPM 1/2" overhang | Max. RPM 1/2" overhang | Max. RPM 1" overhang |  | Item no. | EDP no. |
|---|----------|----------|-----------|------------------------|------------------------|----------------------|---|----------|---------|
| Shank diameter 1/4" x 1-1/2" [S_d x L₂] | | | | | | | | | |
| W 222 | 1 | 2 | 80 | 15,900 | 15,900 | 12,370 | 10 | 35482310 | 34214 |

Mounted points

For surface grinding on grey and nodular cast iron




CAST cylindrical shape

These mounted points are ideal for cleaning workpieces and for grinding out shrinkage holes. The cylindrical shape is ideal for grinding bores, radii and contours.

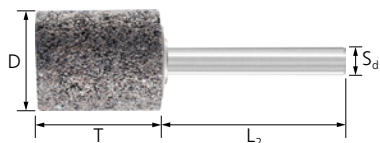


Special features:

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

| USA type | D [Inch] | T [Inch] | Grit size | Opt. RPM 1/2" overhang | Max. RPM 1/2" overhang | Max. RPM 1" overhang |  | Item no. | EDP no. |
|---|----------|----------|-----------|------------------------|------------------------|----------------------|---|----------|---------|
| Shank diameter 1/4" x 1-1/2" [S_d x L₂] | | | | | | | | | |
| W 222 | 1 | 2 | 30 | 15,900 | 15,900 | 12,370 | 10 | 35482271 | 34215 |

For edge grinding on grey and nodular cast iron




CAST EDGE cylindrical shape

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 is ideal for grinding bores, radii and contours.



Special features:

- Highly dimensionally stable due to the high bond content.
- Cost-effective due to high edge stability, even on low-speed power tools.

| USA type | D [Inch] | T [Inch] | Grit size | Opt. RPM 1/2" overhang | Max. RPM 1/2" overhang | Max. RPM 1" overhang |  | Item no. | EDP no. |
|---|----------|----------|-----------|------------------------|------------------------|----------------------|---|----------|---------|
| Shank diameter 1/4" x 1-1/2" [S_d x L₂] | | | | | | | | | |
| W 189 | 1/2 | 2 | 30 | 24,000 | 24,000 | 18,750 | 10 | 35449303 | 33726 |
| W 208 | 3/4 | 2 | 30 | 18,750 | 18,750 | 15,370 | 10 | 35468303 | 34008 |
| W 222 | 1 | 1 | 30 | 15,900 | 15,900 | 12,370 | 10 | 35482303 | 34218 |




Series A CAST EDGE

These mounted points are particularly good for edge grinding, for deburring and grinding out sand inclusions and metal contamination on a wide range of different contours on grey and nodular cast iron.

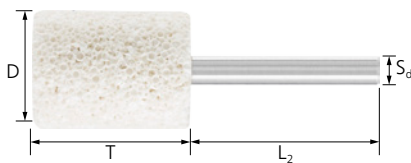


Special features:

- Highly dimensionally stable due to the high bond content.
- Cost-effective due to high edge stability, even on low-speed power tools.

| USA type | D [Inch] | T [Inch] | Grit size | Opt. RPM 1/2" overhang | Max. RPM 1/2" overhang | Max. RPM 1" overhang |  | Item no. | EDP no. |
|---|----------|----------|-----------|------------------------|------------------------|----------------------|---|----------|---------|
| Shank diameter 1/4" x 1-1/2" [S_d x L₂] | | | | | | | | | |
| A 1 | 3/4 | 2-1/2 | 30 | 19,800 | 19,800 | 16,500 | 10 | 39101992 | 31002 |
| A 3 | 1 | 2-3/4 | 30 | 16,100 | 16,100 | 13,080 | 10 | 39101924 | 31022 |
| A 5 | 3/4 | 1-1/8 | 30 | 45,000 | 45,000 | 33,750 | 10 | 35005303 | 31042 |
| A 11 | 7/8 | 2 | 30 | 19,860 | 19,860 | 15,100 | 10 | 39101951 | 31062 |

For universal use on plastic




RUBBER, cylindrical shape

The RUBBER type is specifically designed for universal use on soft materials such as rubber, plastic and wood. The fields of application include removal of burrs on plastic injection-molded parts, trimming of rubber molded parts and molded parts made of polyurethane (PUR), grinding of wooden cores and wooden shapes in model construction workshops and roughing of various adhesive joints (e.g. for repairs on conveyor belts and tires).



Special features:

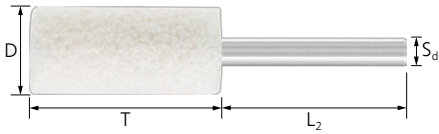
- Open structure and large chip spaces due to bubble grain aluminum oxide.
- Machining of temperature-sensitive materials without the addition of cooling lubricant due to large chip spaces.
- Excellent grinding performance.

| USA type | D [Inch] | T [Inch] | Grit size | Opt. RPM 1/2" overhang | Max. RPM 1/2" overhang | Max. RPM 1" overhang |  | Item no. | EDP no. |
|---|----------|----------|-----------|------------------------|------------------------|----------------------|---|----------|---------|
| Shank diameter 1/4" x 1-1/2" [S_d x L₂] | | | | | | | | | |
| W 222 | 1 | 2 | 30 | 15,900 | 15,900 | 12,370 | 10 | 35482352 | 34213 |



Mounted points

TOOL STEEL mounted points




W TOOL STEEL series

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

Special features:

- Good grinding performance and stock removal rate in universal use on steel workpieces.
- High stock removal rate results in increased productivity.

| USA type | D [Inch] | T [Inch] | Grit size | Opt. RPM 1/2" overhang | Max. RPM 1/2" overhang | Max. RPM 1" overhang |  | Item no. | EDP no. |
|---|----------|----------|-----------|---------------------------|---------------------------|-------------------------|---|----------|---------|
| Shank diameter 1/4" x 1-1/2" [S_d x L₂] | | | | | | | | | |
| W 222 | 1 | 2 | 60 | 15,900 | 15,900 | 12,370 | 10 | 39102106 | 34212 |

3



Safety notes

- The maximum permitted peripheral speed is 6,900 SFPM.
- For safety reasons, the maximum permitted rotational speed indicated must never be exceeded.
- Before clamping, the grinding wheel must be ring tested to make sure that it does not have any cracks (undamaged grinding wheels give a clear tone).



Wear eye protection!



Wear hearing protection!



Wear dust respirators!



Wear gloves!



Observe the safety notes!



Do not use if damaged!



Quick product selection guide

| Material group ▼ | | Design ► | UNIVERSAL | CARBIDE |
|------------------------|--|---|-----------|---------|
| Steel | Steels up to 370 HV (< 38 HRC) | Construction steels, carbon steels, tool steels, non-alloyed steels, case-hardened steels, tempering steels | ● | |
| | Hardened, heat-treated steels over 370 HV (> 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 | Aluminum alloys, brass, copper, zinc | ● | ○ |
| | Hard non-ferrous metals | Bronze, titanium, titanium alloys, hard aluminum alloys | ○ | ○ |
| Other materials | Glass | | | ● |

● = highly recommended ○ = recommended

Bench grinding wheels

Bench grinding wheels




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 service life, high dimensional stability and high abrasive performance.
- Integrated telescopic bushings for mounting on almost any bench grinder spindle.

| D [Inch] | Included bushings | T [Inch] | H [Inch] | Grit size | Max. RPM |  | Item no. | EDP no. | | |
|-------------------------------|--|----------|----------|-----------|----------|---|----------|----------|----------|-------|
| Regular aluminum oxide | | | | | | | | | | |
| 5 | 1", 3/4", 5/8", 1/2", 25, 20, 16, 13 | 3/4 | 1-1/4 | 36 | 5,350 | 1 | 39009707 | 61670 | | |
| | | | | 60 | 5,350 | 1 | 39009716 | 61671 | | |
| 6 | 1", 3/4", 5/8", 1/2", 25, 20, 16, 13 | 5/8 | 1-1/4 | 24 | 4,500 | 1 | 39008418 | 61672 | | |
| | | | | 60 | 4,500 | 1 | 39008419 | 61673 | | |
| | | | | 3/4 | 1-1/4 | 24 | 4,500 | 1 | 39008422 | 61738 |
| | | | | | | 36 | 4,500 | 1 | 39009708 | 61739 |
| | | | | | | 46 | 4,500 | 1 | 39010114 | 61740 |
| | | | | | | 60 | 4,500 | 1 | 39008423 | 61741 |
| | | 1 | 1-1/4 | 80 | 4,500 | 1 | 39010115 | 61742 | | |
| | | | | 24 | 4,500 | 1 | 39008426 | 61743 | | |
| | | | | 36 | 4,500 | 1 | 39010116 | 61744 | | |
| | | | | 46 | 4,500 | 1 | 39010117 | 61745 | | |
| 7 | 1", 3/4", 5/8", 1/2", 25, 20, 16, 13 | 1 | 1-1/4 | 36 | 3,750 | 1 | 39009709 | 61754 | | |
| | | | | 46 | 3,750 | 1 | 39010119 | 61755 | | |
| | | 1 | 2 | 60 | 3,750 | 1 | 39009717 | 61756 | | |
| | | | | 36 | 3,750 | 1 | 39009710 | 61675 | | |
| 8 | 1", 3/4", 5/8", 1/2", 25, 20, 16, 13 | 3/4 | 2 | 24 | 3,350 | 1 | 39008435 | 61677 | | |
| | | | | 60 | 3,350 | 1 | 39008436 | 61678 | | |
| | | | | 24 | 3,350 | 1 | 39008440 | 61763 | | |
| | | 1 | 1-1/4 | 36 | 3,350 | 1 | 39009711 | 61764 | | |
| | | | | 60 | 3,350 | 1 | 39008441 | 61766 | | |
| | | 1 | 2 | 36 | 3,350 | 1 | 39009712 | 61679 | | |
| | | | | 46 | 3,350 | 1 | 39010121 | 61765 | | |
| | | | | 60 | 3,350 | 1 | 39009719 | 61680 | | |
| | | 1-1/6 | 32 | 1-1/4 | 24 | 3,350 | 1 | 39008456 | 61681 | |
| | | | | | 60 | 3,350 | 1 | 39008444 | 61682 | |
| 1-1/4 | 2 | 1-1/4 | 36 | 3,350 | 1 | 39009713 | 61683 | | | |
| | | | 60 | 3,350 | 1 | 39009720 | 61684 | | | |
| 10 | 1-1/4", 1", 3/4", 5/8", 1/2", 32, 25, 20, 16 | 1 | 2 | 24 | 2,700 | 1 | 39010123 | 61768 | | |
| | | | | 36 | 2,700 | 1 | 39010124 | 61769 | | |
| | | | | 46 | 2,700 | 1 | 39010125 | 61770 | | |
| | | | | 60 | 2,700 | 1 | 39010126 | 61771 | | |
| | | | | 80 | 2,700 | 1 | 39010127 | 61772 | | |

Continued on next page

| D [Inch] | Included bushings | T [Inch] | H [Inch] | Grit size | Max. RPM |  | Item no. | EDP no. |
|----------|--|----------|----------|-----------|----------|---|--------------------------|---------|
| 10 | 1-1/4", 1", 3/4", 5/8", 1/2", 32, 25, 20, 16 | 1-1/4 | 2 | 36 | 2,700 | 1 | 39009714 | 61685 |
| | | | | 60 | 2,700 | 1 | 39009721 | 61686 |
| 12 | 76,2, 51, 38,1, 32 | 1-1/2 | 3 | 36 | 2,250 | 1 | 39009715 | 61687 |
| | | | | 60 | 2,250 | 1 | 39009722 | 61688 |
| | | | | 24 | 2,250 | 1 | 39010128 | 61778 |
| | | 2 | 3 | 36 | 2,250 | 1 | 39010129 | 61779 |
| | | | | 60 | 2,250 | 1 | 39010130 | 61781 |
| 14 | 76,2, 51, 38,1, 32 | 2 | 3 | 24 | 1,850 | 1 | 39010131 | 61782 |




HSS design

These bench grinding wheels are ideal 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.



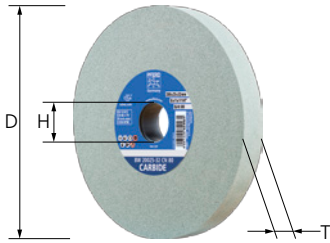
Special features:

- Long service life, high dimensional stability and high abrasive performance.
- Integrated telescopic bushings for mounting on almost any bench grinder spindle.

| D [Inch] | Included bushings | T [Inch] | H [Inch] | Grit size | Max. RPM |  | Item no. | EDP no. |
|-----------------------------|--|----------|----------|-----------|----------|---|----------|---------|
| White aluminum oxide | | | | | | | | |
| 5 | 1", 3/4", 5/8", 1/2", 25, 20, 16, 13 | 3/4 | 1-1/4 | 80 | 5,350 | 1 | 39009698 | 61717 |
| 6 | 1", 3/4", 5/8", 1/2", 25, 20, 16, 13 | 5/8 | 1-1/4 | 60 | 4,500 | 1 | 39008420 | 61718 |
| | | 3/4 | 1-1/4 | 60 | 4,500 | 1 | 39008424 | 61719 |
| | | 80 | 4,500 | 1 | 39009699 | 61720 | | |
| 7 | 1-1/4", 1", 3/4", 5/8", 1/2", 32, 25, 20, 16 | 1 | 1-1/4 | 60 | 4,500 | 1 | 39008428 | 61721 |
| 8 | 1-1/4", 1", 3/4", 5/8", 1/2", 32, 25, 20, 16 | 1 | 2 | 80 | 3,750 | 1 | 39009701 | 61723 |
| | | | | 60 | 3,350 | 1 | 39008437 | 61724 |
| | | | | 60 | 3,350 | 1 | 39008442 | 61725 |
| | | 1-1/4 | 2 | 80 | 3,350 | 1 | 39009703 | 61727 |
| 10 | 1-1/4", 1", 3/4", 5/8", 1/2", 32, 25, 20, 16 | 1-1/4 | 2 | 80 | 3,350 | 1 | 39009704 | 61729 |
| | | | | 80 | 2,700 | 1 | 39009705 | 61730 |
| 12 | 76,2, 51, 38,1, 32 | 1-1/2 | 3 | 80 | 2,250 | 1 | 39009706 | 61731 |

Bench grinding wheels

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 service life, high dimensional stability and high abrasive performance.
- Integrated telescopic bushings for mounting on almost any bench grinder spindle.

3

| D [Inch] | Included bushings | T [Inch] | H [Inch] | Grit size | Max. RPM |  | Item no. | EDP no. | |
|--|--|----------|----------|--|----------|---|--------------------------|----------|-------|
| Silicon carbide | | | | | | | | | |
| 5 | 1", 3/4", 5/8", 1/2", 25, 20, 16, 13 | 3/4 | 1-1/4 | 80 | 5,350 | 1 | 39009723 | 61689 | |
| 6 | 1", 3/4", 5/8", 1/2", 25, 20, 16, 13 | 5/8 | 1-1/4 | 120 | 4,500 | 1 | 39008421 | 61690 | |
| | | | | 60 | 4,500 | 1 | 39008570 | 61785 | |
| | | | | 80 | 4,500 | 1 | 39009724 | 61786 | |
| | | 1 | 1-1/4 | 120 | 4,500 | 1 | 39008425 | 61787 | |
| | | | | 60 | 4,500 | 1 | 39010132 | 61788 | |
| | | | | 80 | 4,500 | 1 | 39010133 | 61789 | |
| 120 | 4,500 | 1 | 39008429 | 61790 | | | | | |
| 7 | 1-1/4", 1", 3/4", 5/8", 1/2", 32, 25, 20, 16 | 1 | 2 | 80 | 3,750 | 1 | 39009726 | 61691 | |
| | | | | 120 | 3,750 | 1 | 39010134 | 61793 | |
| 8 | 1-1/4", 1", 3/4", 5/8", 1/2", 32, 25, 20, 16 | 3/4 | 2 | 80 | 3,350 | 1 | 39008438 | 61692 | |
| | | | | 120 | 3,350 | 1 | 39008439 | 61693 | |
| | | 1 | 2 | 60 | 3,350 | 1 | 39010135 | 61794 | |
| | | | | 120 | 3,350 | 1 | 39008443 | 61796 | |
| | | 1 | 32 | 25, 20, 16 | 120 | 3,350 | 1 | 39008443 | 61796 |
| | | | | 1-1/4", 1", 3/4", 5/8", 1/2", 32, 25, 20, 16 | 1 | 2 | 80 | 3,350 | 1 |
| 25, 20, 16 | 1-1/6 | 1-1/4 | 120 | 3,350 | 1 | 39008458 | 61695 | | |
| 1-1/4", 1", 3/4", 5/8", 1/2", 32, 25, 20, 16 | 1-1/4 | 2 | 80 | 3,350 | 1 | 39009728 | 61696 | | |
| 10 | 1-1/4", 1", 3/4", 5/8", 1/2", 32, 25, 20, 16 | 1-1/4 | 2 | 80 | 2,700 | 1 | 39009729 | 61697 | |
| 12 | 76,2, 51, 38,1, 32 | 1-1/2 | 3 | 80 | 2,250 | 1 | 39009730 | 61698 | |




Bench wheel bushings

PFERD bench grinder bushings provide a safe method of reducing the wheel arbor to accommodate various spindle sizes. The bushing should be flush on both sides of the wheel, and should not interfere with the flanges.

Special features:

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

| Suitable for hole diameter [Inch] | Suitable for width [Inch] | Dia. hole included in the set |  | Item no. | EDP no. |
|-----------------------------------|---------------------------|-------------------------------|---|----------|---------|
| Standard | | | | | |
| 1-1/4 | 1/4 | 1 | 1 | 69901397 | 69012 |
| | | 7/8 | 1 | 69901399 | 69014 |
| | | 3/4 | 1 | 69901400 | 69015 |
| | | 5/8 | 1 | 69901401 | 69016 |
| | | 1/2 | 1 | 69901402 | 69017 |
| Teleskopig | | | | | |
| 1 | 1/2 | 3/4, 5/8, 1/2 | 1 | 69901403 | 69018 |
| | 3/4 | 3/4, 5/8, 1/2 | 1 | 69901404 | 69019 |
| | 1 | 3/4, 5/8, 1/2 | 1 | 69901396 | 69011 |
| 1-1/4 | 1 | 1 | 1 | 69901490 | 69025 |
| 1 1/2 | 1 | 1-1/4 | 1 | 69901489 | 69024 |



Special tools for tool and die-making

Quick product selection guide

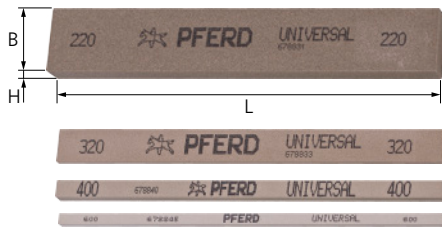


3

| Material group ▼ | | Design ► | UNIVERSAL | CARBIDE |
|------------------------|--|---|-----------|---------|
| Steel | Steels up to 370 HV (< 38 HRC) | Construction steels, carbon steels, tool steels, non-alloyed steels, case-hardened steels, tempering steels | | |
| | Hardened, heat-treated steels over 370 HV (> 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 | Aluminum alloys, brass, copper, zinc | ● | |
| | Hard non-ferrous metals | Bronze, titanium, titanium alloys, hard aluminum alloys | ● | |

● = highly recommended ○ = recommended

Grinding and polishing stones



UNIVERSAL version

The UNIVERSAL grinding and polishing stones are the all-rounders for step-by-step fine grinding in tool and die-making.




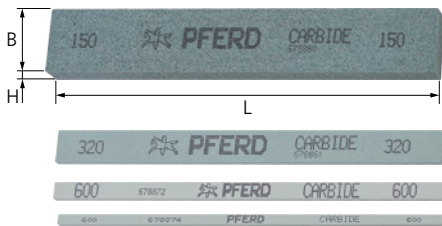
Special features:

- Long service life, high dimensional stability, high abrasive performance, uniform stock removal and fine surface finish.
- Materials: Hardened, heat-treated steels, stainless steel (INOX), aluminum, other non-ferrous metals.

| Width [Inch] | Height [Inch] | Length [Inch] | Grit size | | Item no. | EDP no. | | | |
|---------------|---------------|---------------|-----------|-----|----------|---------|---|----------|-------|
| Square | | | | | | | | | |
| 5/32 | 5/32 | 6 | 220 | 1 | 33400001 | 39050 | | | |
| | | | 320 | 1 | 33400007 | 39056 | | | |
| 1/4 | 1/8 | 6 | 220 | 1 | 33400002 | 39051 | | | |
| | | | 320 | 1 | 33400008 | 39057 | | | |
| | | | 400 | 1 | 33400014 | 39063 | | | |
| | | | 600 | 1 | 33400020 | 39069 | | | |
| | | | 1/4 | 1/4 | 6 | 220 | 1 | 33400003 | 39052 |
| | | | | | | 320 | 1 | 33400009 | 39058 |
| 1/2 | 1/8 | 6 | 220 | 1 | 33400004 | 39053 | | | |
| | | | 320 | 1 | 33400010 | 39059 | | | |
| | | | 400 | 1 | 33400016 | 39065 | | | |
| | | | 600 | 1 | 33400022 | 39071 | | | |

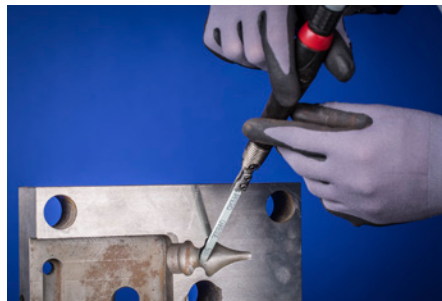
Continued on next page

| Width [Inch] | Height [Inch] | Length [Inch] | Grit size |  | Item no. | EDP no. |
|--------------|---------------|---------------|-----------|---|----------|---------|
| 1/2 | 1/4 | 6 | 220 | 1 | 33400005 | 39054 |
| | | | 600 | 1 | 33400023 | 39072 |
| 1 | 1/2 | 6 | 220 | 1 | 33400006 | 39055 |
| | | | 320 | 1 | 33400012 | 39061 |
| | | | 400 | 1 | 33400018 | 39067 |
| | | | 600 | 1 | 33400024 | 39073 |




CARBIDE design

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



Special features:

- Long service life, high dimensional stability, high abrasive performance, uniform stock removal and fine surface finish.

| Width [Inch] | Height [Inch] | Length [Inch] | Grit size |  | Item no. | EDP no. |
|---------------|---------------|---------------|-----------|---|----------|---------|
| Square | | | | | | |
| 5/32 | 5/32 | 6 | 150 | 1 | 33400025 | 39074 |
| | | | 220 | 1 | 33400031 | 39080 |
| | | | 320 | 1 | 33400037 | 39086 |
| 1/4 | 1/8 | 6 | 150 | 1 | 33400026 | 39075 |
| | | | 220 | 1 | 33400032 | 39081 |
| | | | 600 | 1 | 33400050 | 39099 |
| | 1/4 | 6 | 150 | 12 | 33400027 | 39076 |
| | | | 220 | 1 | 33400033 | 39082 |
| | | | 320 | 1 | 33400039 | 39088 |
| 1/2 | 1/8 | 6 | 220 | 1 | 33400034 | 39083 |
| | | | 320 | 12 | 33400040 | 39089 |
| | | | 400 | 1 | 33400046 | 39095 |
| | | | 600 | 1 | 33400052 | 39101 |
| | | | 600 | 1 | 33400053 | 39102 |
| | 1/4 | 6 | 150 | 1 | 33400029 | 39078 |
| | | | 220 | 1 | 33400035 | 39084 |
| | | | 320 | 1 | 33400041 | 39090 |
| | | | 400 | 1 | 33400047 | 39096 |
| 1 | 1/2 | 6 | 600 | 1 | 33400053 | 39102 |
| | | | 150 | 1 | 33400030 | 39079 |
| | | | 220 | 1 | 33400036 | 39085 |
| | | | 320 | 1 | 33400042 | 39091 |
| | | | 400 | 1 | 33400048 | 39097 |
| | | | 600 | 1 | 33400054 | 39103 |

Special tools for tool and die-making

Grinding and polishing stones




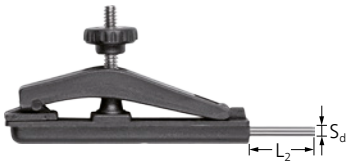
Arbor for grinding and polishing stones for two different cross sections

These arbors are ideally suited for clamping grinding and polishing stones for manual applications.

Special features:

- Can accommodate two different cross sections.

| Suitable cross sections |  | Item no. | EDP no. |
|---------------------------|---|----------|---------|
| Manual application | | | |
| 1/4" x 1/4", 1/4" x 1/2" | 1 | 33509010 | 39104 |




Variable arbor for manual filing tool for grinding and polishing stones

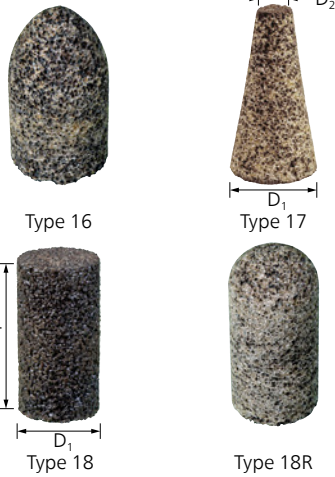
These arbors are ideally suited for clamping grinding and polishing stones for manual applications.

Special features:

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

| Suitable cross sections |  | Item no. | EDP no. |
|--|---|----------|---------|
| Manual filing machine shank diameter of 1/8" x 3/4" [S_d x L₂] | | | |
| All grinding and polishing stones | 1 | 33509030 | 39106 |

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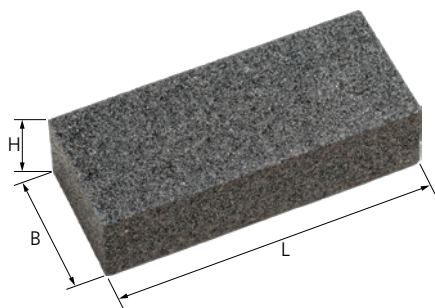
Cones and plugs, regular aluminium oxide

Cones and plugs are made of regular aluminum oxide in a high-quality resinoid bond. Because of their hardness, these products achieve good stock removal rates and are highly durable.

Special features:

- High stock removal rate.
- High level of edge and dimensional stability.
- Cool grinding reduces thermal load on the workpiece.

| D [Inch] | T [Inch] | Grit size | Thread | Opt. RPM | Max. RPM |  | Item no. | EDP no. |
|------------------|----------|-----------|--------|----------|----------|---|----------|---------|
| Type 16 | | | | | | | | |
| 1-1/2 | 2-1/2 | 16 | 3/8-24 | 24,000 | 24,100 | 10 | 39008687 | 61816 |
| | 3 | 16 | 5/8-11 | 24,000 | 24,100 | 10 | 39008688 | 61820 |
| 1-3/4 | 3 | 16 | 5/8-11 | 20,600 | 20,700 | 10 | 39008689 | 61826 |
| 2-3/4 | 3-1/2 | 16 | 5/8-11 | 13,100 | 13,200 | 10 | 39008691 | 61837 |
| 2 | 3 | 16 | 5/8-11 | 18,100 | 18,100 | 10 | 39008690 | 61829 |
| 3 | 3 | 16 | 5/8-11 | 12,000 | 12,500 | 10 | 39009857 | 61838 |
| Type 17 | | | | | | | | |
| 1-1/2 | 3 | 16 | 3/8-24 | 24,000 | 24,100 | 10 | 39008694 | 61854 |
| | | | 5/8-11 | 24,000 | 24,100 | 10 | 39008695 | 61855 |
| | 2-1/2 | 16 | 3/8-24 | 24,000 | 24,100 | 10 | 39008692 | 61850 |
| | | | 5/8-11 | 24,000 | 24,100 | 10 | 39008693 | 61851 |
| 2 | 3 | 16 | 5/8-11 | 14,500 | 18,100 | 10 | 39008696 | 61859 |
| Type 18 | | | | | | | | |
| 1-1/2 | 2-1/2 | 16 | 3/8-24 | 24,000 | 24,100 | 10 | 39008698 | 61884 |
| | | | 5/8-11 | 24,000 | 24,100 | 10 | 39008699 | 61885 |
| | 3 | 16 | 3/8-24 | 24,000 | 24,100 | 10 | 39008700 | 61888 |
| | | | 5/8-11 | 24,000 | 24,100 | 10 | 39008701 | 61889 |
| 1 | 2 | 16 | 3/8-24 | 36,100 | 36,200 | 10 | 39008697 | 61883 |
| 2 | 3 | 16 | 5/8-11 | 18,100 | 18,100 | 10 | 39008702 | 61893 |
| Type 18 R | | | | | | | | |
| 1-1/2 | 2-1/2 | 16 | 3/8-24 | 24,000 | 24,100 | 10 | 39008703 | 61927 |
| | | | 5/8-11 | 24,000 | 24,100 | 10 | 39008704 | 61928 |
| | 3 | 16 | 3/8-24 | 24,000 | 24,000 | 10 | 39008705 | 61931 |
| | | | 5/8-11 | 24,000 | 24,000 | 10 | 39008706 | 61932 |
| 2 | 3 | 16 | 5/8-11 | 18,100 | 18,100 | 10 | 39008708 | 61936 |
| 3 | 3 | 16 | 5/8-11 | 12,000 | 12,500 | 10 | 39009858 | 61937 |




Medium dressing stone, coarse

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

Special features:

- 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.

| L [Inch] | H [Inch] | B [Inch] |  | Item no. | EDP no. |
|----------|----------|----------|---|----------|---------|
| 4-3/4 | 1-1/4 | 2 | 5 | 33401001 | 39010 |




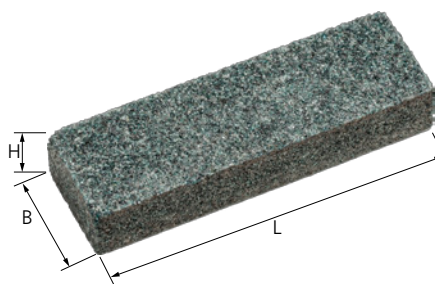
Medium dressing stone, two-sided

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

Special features:

- Two different grit sizes for dressing mounted points with different grit sizes and bonds.

| L [Inch] | H [Inch] | B [Inch] |  | Item no. | EDP no. |
|----------|----------|----------|---|----------|---------|
| 4-3/4 | 1-1/4 | 2 | 5 | 33401010 | 39011 |




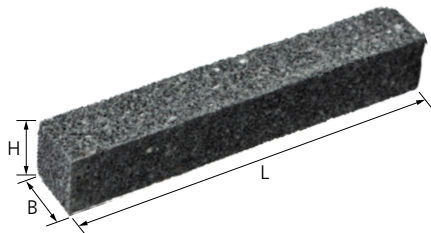
Small dressing stone, fine

Dressing stones are suitable for profiling profiling and dressing of mounted points.

Special features:

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

| L [Inch] | H [Inch] | B [Inch] |  | Item no. | EDP no. |
|----------|----------|----------|---|----------|---------|
| 2-3/4 | 7/8 | 1/2 | 5 | 33899045 | 39012 |




Dressing stone for large and coarse grinding/mounted points

Large dressing stone with coarse granulation (grain 30) for profiling and dressing of larger and coarser mounted points.

Special features:

- Ideal for dressing large and coarse grinding/mounted points.

| L [Inch] | H [Inch] | B [Inch] |  | Item no. | EDP no. |
|----------|----------|----------|---|----------|---------|
| 6 | 1 | 1 | 5 | 39008684 | 39015 |




Grinding wheel dresser

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



Special features:


- 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.
- Axis with integrated grease fitting to guarantee a long service life even at high peripheral speeds.

| Total length [Inch] | Roll width [Inch] | Roll dia. [Inch] | Max. wheel ø [Inch] | Max. wheel thickness [Inch] | Diameter [Inch] |  | Item no. | EDP no. |
|---------------------|-------------------|------------------|---------------------|-----------------------------|-----------------|---|----------|---------|
| 17 | 1-1/2 | 1 | 19-5/8 | 2-1/2 | 2-1/6 | 1 | 33300001 | 39110 |



Replacement roller for grinding wheel dresser


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

| Roll width [Inch] | Roll dia. [Inch] | Diameter [Inch] |  | Item no. | EDP no. |
|-------------------|------------------|-----------------|---|----------|---------|
| 1-1/2 | 1 | 2-1/6 | 1 | 33300002 | 39114 |



Replacement spindle for grinding wheel dresser roller

The greaseable spindle can be used to replace worn spindles.

| Roll width [Inch] | Diameter [Inch] |  | Item no. | EDP no. |
|-------------------|-----------------|---|----------|---------|
| 1-1/2 | 2-1/8 | 1 | 33300003 | 39115 |

Hand dressers

Dressing stones




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.



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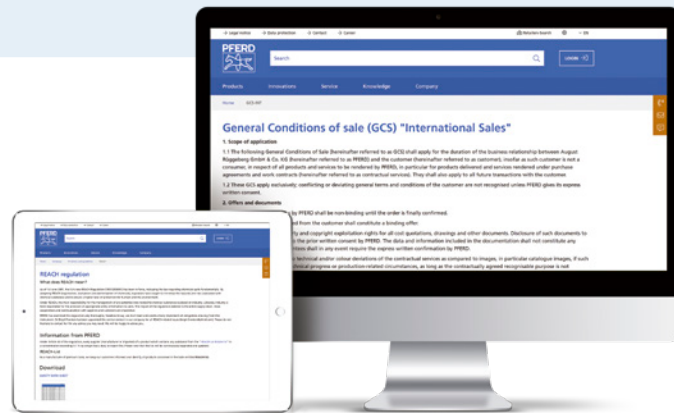
| Total length [Inch] | Diameter [Inch] |  | Item no. | EDP no. |
|---------------------|-----------------|---|----------|---------|
| 10 | 7/8 | 1 | 33300004 | 39112 |

General terms and conditions of sale

Our general terms and conditions of sale apply, which you can view at www.pferd.com/conditions.



Scan the QR code for more information about our general terms and conditions of sale.



New in the PFERD product range

Our new products have **blue** item numbers in the Tool Manual. Discontinued products are in *italics* and identified accordingly in the corresponding product tables.



Stay up to date and discover our new products digitally and online.

REACH Regulation (EC) No. 1907/2006

By adopting REACH (registration, evaluation and authorisation of chemicals), legislators have sought to minimize the hazards and risks associated with chemical substances and to ensure a higher level of protection for humans and the environment.



Information about PFERD tools in the context of the EC REACH Regulation can be found on our website www.pferd.com/reach.

PFERD repair service

Our highly experienced team at our Marienheide plant in Germany ensures that repairs are carried out quickly and looks after the provision of spare parts. Please send any queries to: pferd.power.tools@pferd.com