



Presse release

High-capacity burrs

Technologically and economically speaking, the best solution for any material and any application – tungsten carbide burrs from PFERD for high-performance applications

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Image 1

The best solution for any material and any application – tungsten carbide burrs from PFERD for high-performance applications

[hm-fraesstifte-hochleistungsanwendungen.jpg]

PFERD tungsten carbide burrs for high-performance applications feature high stock removal rates and long tool life. Above all, the range of cuts offers individual benefits for processing the relevant material. This makes PFERD burrs for high-performance applications highly functional, economical solutions for processing steel, INOX, aluminium, and non-ferrous metals, cast materials, titanium, and plastics. The cuts of the same name have been specially designed and developed in consideration of the stock removal properties of various materials.

Alongside material-specific TC burrs, PFERD provides high-performance solutions for the most common applications in the field of manual milling: the ALLROUND cut for multi-faceted use with the most popular materials (steel and cast steel, stainless steel (INOX), non-ferrous metals, and cast iron), for example. Its innovative cut exceeds the stock removal rate of conventional cross-cut burrs in steel processing by up to 30%.

Other specialists for popular applications are the extremely impact-resistant TOUGH and TOUGH-S cuts; the EDGE cut, which was specially developed for defined work on edges; and the MICRO cut for finishing.



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PFERD provides high-performance burrs with outstanding properties for any material and the most popular applications.

PFERDVALUE:

PFERDERGONOMICS recommends burrs for high-performance applications that support working comfortably with significantly reduced vibration and less noise.

PFERDEFFICIENCY recommends burrs for high-performance applications that involve working with low levels of fatigue whilst saving resources and achieving perfect results as quickly as possible.



Image 2

TC burrs with ALLROUND cut from PFERD for high-performance applications – one cut, any material

[awf-rbf-1225-6-allround-hicoat-2-cmyk.jpg]

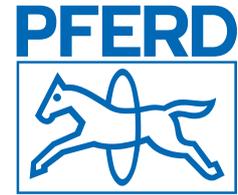
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Attached: An overview of the cuts

ALLROUND cut for versatile use

With the innovative ALLROUND cut, PFERD has developed unique burrs for versatile use on key materials such as steel and cast steel, stainless steel (INOX), non-ferrous metals and cast iron. The ALLROUND cut offers all the benefits of the tried-and-tested 3 PLUS cut, but its stock removal rate is up to 30% higher for steel. It enables comfortable working with reduced vibration and less noise. The burrs feature significant time savings and a high economic value. The ALLROUND cut is also available with a wearproof HICOAT coating.

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

STEEL cut for steel and cast steel

With the innovative STEEL cut, PFERD has developed unique burrs for working with steel and cast steel. They feature tangibly increased aggressiveness and good guidance, ensuring safe and precise work. Thanks to their extremely high stock removal rate, burrs with the STEEL cut impress users through significant time savings and their high economic value. The STEEL cut is also available with a wearproof HICOAT coating.

- Up to 50% higher stock removal rate when used on steel and cast steel in comparison to conventional cross-cut burrs.
- Tangibly more aggressive, large chips and very good chip removal through the innovative tooth geometry.
- Workpieces are protected through significantly lower thermal load.

INOX cut for stainless steel (INOX)

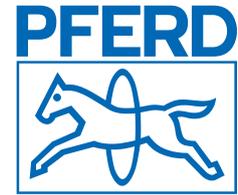
With the INOX cut, PFERD has developed innovative burrs for work on stainless steel (INOX). The INOX cut is characterized by an extremely high stock removal rate on all austenitic steels, as well as rust- and acid-resistant steels. It generates significantly less vibration than a comparable cross cut. The INOX cut is also available with a wearproof HICOAT coating.

- Outstanding stock removal rate and tool life due to innovative tooth geometry.
- Achieves high surface qualities through optimum chip formation.
- Prevents heat discolouration in the material due to reduced heat production.

ALU and NON-FERROUS cuts for aluminium and non-ferrous metals

When it comes to machining aluminium and non-ferrous metals, PFERD offers two high-performance cuts and a HICOAT coating which have been designed specifically for complex machining tasks on long-chipping and lubricating materials.

- Extremely high stock removal rate.
- Reduced material adhesion.
- Long tool life and smooth running.



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CAST cut for cast iron

With the CAST cut, PFERD has developed innovative burrs especially for work on cast iron. They feature an extremely high stock removal rate on cast iron and impress with their smooth milling performance, considerably reduced vibration, and less noise.

- Up to 100% higher stock removal rate when used on cast iron due to the innovative tooth geometry, when compared with conventional cross-cut burrs.
- Significantly more aggressive, large chips and very good chip removal.
- Comfortable working with reduced vibration and less noise.

TITANIUM cut for titanium

The TITANIUM cut has been especially developed for work on hard titanium materials (tensile strength > 500 N/mm²). It is characterized by an extremely high stock removal rate on this material group, which has very challenging stock removal properties. Tungsten carbide burrs with the TITANIUM cut impress with their smooth milling with considerably reduced vibration and less noise.

- Outstanding stock removal rate and tool life due to innovative tooth geometry.
- Significantly more aggressive, large chips and very good chip removal.
- Comfortable working with reduced vibration and less noise.

PLAST, FVK and FVK-S cuts for GRP/CRP

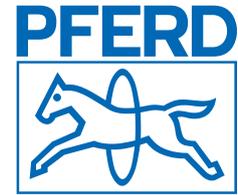
Tungsten carbide burrs with PLAST, FVK, and FVKS cuts are ideal for the trimming and contour milling of a wide range of GRP and CRP fibre-reinforced plastics. Burrs with a drill cut (BS) or with a centre drill (ZBS) allow combined drilling and milling work. Burrs with an end cut (two teeth, STS) enable holes to be drilled with minimal burr formation, whilst the version with a flat end cut (two teeth, FSTS) is used to mill grooves and pockets. The STS and FSTS versions are suitable only for machine and robot applications. The special tooth geometry allows high feed rates due to low resistance. In addition, these burrs are characterized by smooth milling.

- Tungsten carbide burrs with FVK and PLAST cuts are ideal for combined drilling and milling work in manual and robot applications.
- The PLAST cut is particularly suitable for use on softer **duroplastics** and **thermoplastics** with or without fibre reinforcement (with a fibre content of up to 40%), whilst the FVK cut is designed for use on hard **duroplastics** with or without fibre reinforcement (with a fibre content of greater than 40 %).
- The drill cut (BS) version is suitable for machine and robot applications. The version with a centre drill (ZBS) is ideal for manual application.

TOUGH and TOUGH-S cuts for tough applications

The TOUGH and TOUGH-S cuts have been specially designed for tough operating conditions in dockyards, foundries and steel construction. They are also ideal for use in all manufacturing sectors where, due to the difficult production environment, tooth breakages or other damage to conventional burrs is a frequent occurrence.

- Innovative, special cuts providing exceptional impact resistance.
- Minimized tooth chipping/breakage, splintering and burr failures due to very robust, high-performance cuts.
- Can also be used in low rotational speed ranges.
- Due to their extreme impact resistance, they are ideal for use as long-shank types.



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MICRO cut for finishing

Tungsten carbide burrs with the MICRO cut are specifically designed for finishing and are used in areas in which mounted grinding points are usually used. They offer a higher stock removal rate and produce a high surface quality, particularly compared with conventionally milled surfaces. They also operate with low vibration and little noise. They maintain their geometry over their entire tool life, and are well suited to manual and machine applications. Almost all materials up to a hardness of 68 HRC can be machined.

- High surface quality.
- Unlike with mounted grinding points, there is no change in geometry due to wear and tear.
- Use on almost all materials up to 68 HRC.

EDGE cut for work on edges

Tungsten carbide burrs with the EDGE cut have been especially developed for defined work on edges. The special design allows the burr to run directly along the edges without damaging the workpiece. Exact edge shapes can therefore be created in a single step – with either defined chamfers of 30° or 45°, or to a defined radius of 3.0 mm. Among other things, rounding edges is a precautionary measure for anti-corrosion protection according to: ISO 129443, ISO 85013, SOLAS XII/6.3 (Ref. T4/3.01 MSC.1/Circ.1198).

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