

New in the PFERD product range 202

TC burrs for finishing



Pointed tree-shaped burr according to DIN 8032, flattened tip.

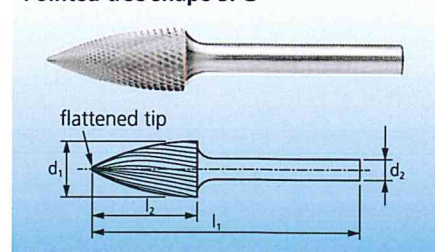
Ordering example:



EAN 4007220003916

SPG 0618/6 MICRO

Please complete the description with the desired cut.

Pointed tree shape SPG



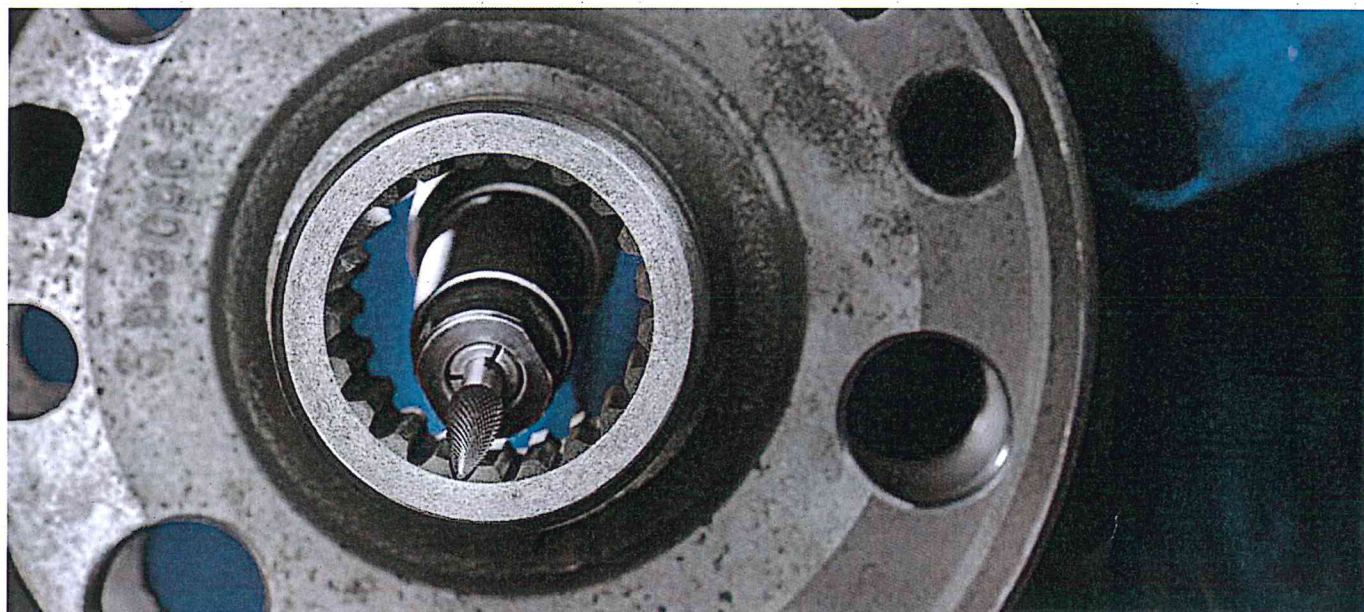
Description	Cut MICRO 	Shank dia. d_2 [mm]	Burr dia. x length d_1 x l_2 [mm]	Overall length l_1 [mm]	
EAN 4007220					

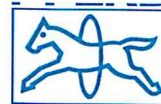
Shank dia. 3 mm

N! SPG 0307/3	003886	3	3 x 7	37	1
N! SPG 0313/3	003893	3	3 x 13	43	1
N! SPG 0613/3	003909	3	6 x 13	43	1

Shank dia. 6 mm

N! SPG 0618/6	003916	6	6 x 18	55	1
N! SPG 0820/6	003923	6	8 x 20	60	1
N! SPG 1020/6	003930	6	10 x 20	60	1
N! SPG 1225/6	003954	6	12 x 25	65	1





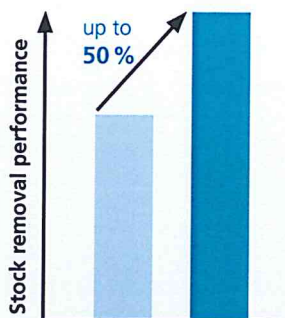
Cut STEEL



With the innovative STEEL cut, PFERD has developed burrs for working with steel and cast steel. They are characterized by a significantly increased aggressiveness and good guidability.

Thus they ensure safe and precise work. The extremely high stock removal performance makes these burrs with cut STEEL impressive, with significant time savings and high economic value.

Performance values for applications on steel and cast steel



■ Conventional burrs with cross cut
■ Tungsten carbide burrs, STEEL cut



Advantages:

- Up to 50 % higher stock removal performance when used on steel and cast steel in comparison to conventional cross cut burrs
- Significantly increased aggressiveness, large chips and very good chip removal through the innovative tooth geometry
- Protection of the workpiece and tool through much lower thermal load

PFERDERGONOMICS® recommends burrs with STEEL cut as an innovative tool solution for comfortable working with reduced vibration and lower noise.



PFERDEFFICIENCY® recommends burrs with STEEL cut for long, fatigue-free and resource-saving work, with perfect results in the shortest possible time



Recommended rotational speed range

To determine the recommended rotational speed range, please proceed as follows:

- 1 Refer to the table for the cutting speed
- 2 Select the required burr diameter.

- 3 The cutting speed range and the burr diameter determine the recommended rotational speed range

Material groups			Application	Cut	1 Cutting speed
Steel, cast steel	Non-hardened, non-heat-treated steels up to 1,200 N/mm ² (< 38 HRC)	Construction steels, carbon steels, tool steels, non-alloyed steels, casehardened steels, cast steel	Coarse stock removal	STEEL	450–750 m/min
	Hardened, heat-treated steels over 1,200 N/mm ² (> 38 HRC)	Tool steels, tempering steels, alloyed steel, cast steel			

Example:

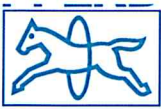
TC burr,
Cut STEEL,
Burr dia. 12 mm.
Cutting speed: 450–750 m/min
Rotational speed: 12,000–20,000 RPM

2 Burr dia. [mm]	3 Cutting speed [m/min]	
	450	750
	Rotational speed [RPM]	
6	24,000	40,000
8	18,000	30,000
10	14,000	24,000
12	12,000	20,000
16	9,000	15,000



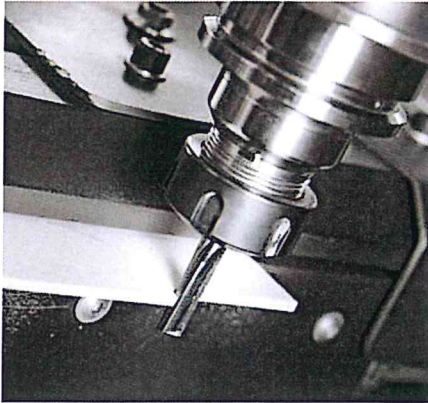
PFERDVIDEO

You will receive more information here or at www.pferd.com



New in the PFERD product range 202

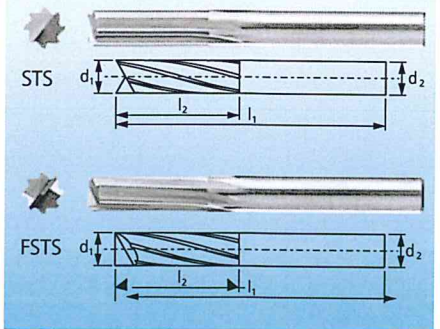
TC burrs for GRP/CRP





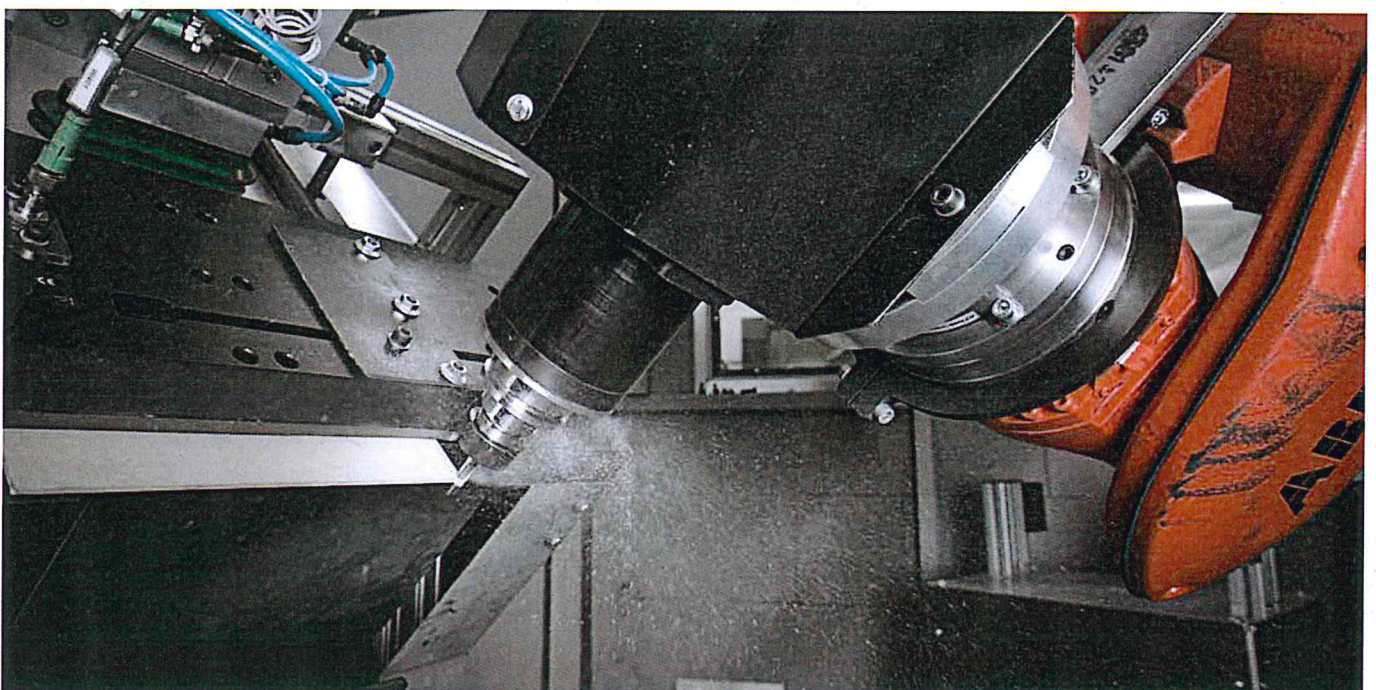
Cylindrical burr.

Ordering example:
 EAN 4007220003107
 ZYA 0625/6 STS PLAST
 Please complete the description with the desired cut.

Cylindrical shape ZYA

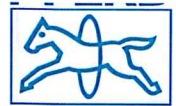


Description	Cut PLAST  EAN 4007220	Shank dia. d_2 [mm]	Burr dia. x length $d_1 \times l_2$ [mm]	Overall length l_1 [mm]	
Shank dia. 6 mm with end cut (STS)					
N! ZYA 0625/6 STS	003107	6	6 x 25	65	1
Shank dia. 8 mm with end cut (STS)					
N! ZYA 0825/8 STS	003121	8	8 x 25	65	1
Shank dia. 6 mm with flat end cut (FSTS)					
N! ZYA 0625/6 FSTS	003138	6	6 x 25	65	1
Shank dia. 8 mm with flat end cut (FSTS)					
N! ZYA 0825/8 FSTS	003152	8	8 x 25	65	1

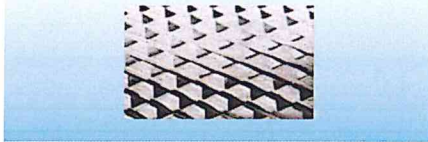


New in the PFERD product range 202

TC burrs for finishing



Cut MICRO



Tungsten carbide burrs with MICRO cut are specifically designed for finishing. They are well suited for manual and machine applications and are characterized by good stock removal and a high surface quality.

The MICRO cut can be used for work on almost all materials up to a hardness of 68 HRC. Tungsten carbide burrs with MICRO cut can be used in areas in which mounted points are usually used, but where a high stock removal is also required. They work with less noise and low vibrations.

Application examples:

- Finishing
- Very fine cleaning work
- Corrections in tool and mould construction
- Sharpening of cutting tools

Advantages:

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

PFERDERGONOMICS® recommends burrs with MICRO cut as an innovative tool solution for comfortable working with significantly reduced vibration and lower noise.



Recommended rotational speed range

To determine the recommended cutting speed range [m/min], please proceed as follows:

- ① Select the material group to be machined
- ② Establish the cutting speed range

To determine the recommended rotational speed range, please proceed as follows:

- ③ Select the required burr diameter
- ④ The cutting speed range and the burr diameter determine the recommended rotational speed range

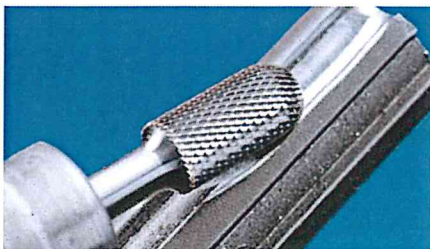
PFERDEFFICIENCY® recommends burrs with MICRO cut for long, fatigue-free work, with perfect results in the shortest possible time.



① Material groups			Application	Cut	② Cutting speed
Steel, cast steel	Non-hardened, nonheat-treated steels up to 1,200 N/mm ² (< 38 HRC)	Construction steels, carbon steels, tool steels, non-alloyed steels, case-hardened steels, cast steel	Fine stock removal	MICRO	600–750 m/min
	Hardened, heat-treated steels over 1,200 N/mm ² (> 38 HRC)	Tool steels, tempering steels, alloyed steels, cast steel			450–600 m/min
Stainless steel (INOX)	Rust- and acid-resistant steels	Austenitic and ferritic stainless steels	Fine stock removal	MICRO	450–600 m/min
Non-ferrous metals	Hard non-ferrous metals	Bronze, titanium/titanium alloys, hard aluminium alloys (high Si content)	Fine stock removal	MICRO	450–600 m/min
	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 ENGJMW (GTW), black cast iron EN-GJMB (GTS)	Fine stock removal	MICRO	600–750 m/min

Example:

TC burr,
Cut MICRO,
Burr dia. 10 mm.
Fine stock removal on non-hardened, non-heat-treated steels
Cutting speed: 600–750 m/min
Rotational speed: 19,000–24,000 RPM

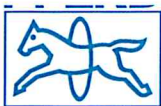


③ Burr dia. [mm]	④ Cutting speed [m/min]		
	450	600	750
	Rotational speed [RPM]		
3	48,000	64,000	80,000
6	24,000	32,000	40,000
8	18,000	24,000	30,000
10	14,000	19,000	24,000
12	12,000	16,000	20,000



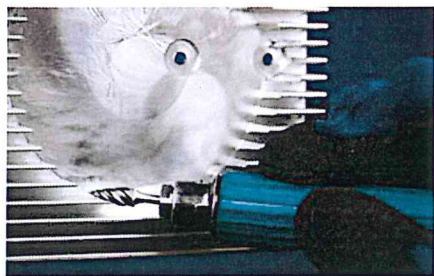
PFERDVIDEO

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New in the PFERD product range 202

TC burrs for aluminium/non-ferrous metals



Pointed tree-shaped burr according to DIN 8032, flattened tip.

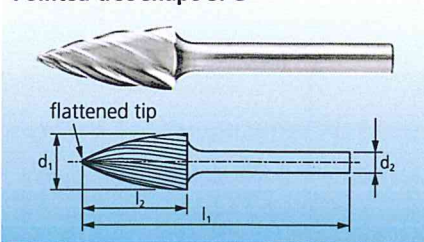
Ordering example:

EAN 4007220003503

SPG 0618/6 ALU

Please complete the description with the desired cut.

Pointed tree shape SPG



Description

Cut

ALU



EAN 4007220

Shank
dia.
 d_2
[mm]

Burr dia.
x length
 $d_1 \times l_2$
[mm]

Overall length
 l_1
[mm]



Shank dia. 3 mm

N! SPG 0307/3	003350	3	3 x 7	37	1
N! SPG 0313/3	003435	3	3 x 13	43	1
N! SPG 0613/3	003442	3	6 x 13	43	1

Shank dia. 6 mm

N! SPG 0618/6	003503	6	6 x 18	55	1
N! SPG 0820/6	003534	6	8 x 20	60	1
N! SPG 1020/6	003558	6	10 x 20	60	1
N! SPG 1225/6	003596	6	12 x 25	65	1

Set 1603 ALU contains ten tungsten carbide miniature burrs for work on aluminium in the most common shapes and dimensions. The sturdy plastic box protects the tools from dirt and damage.

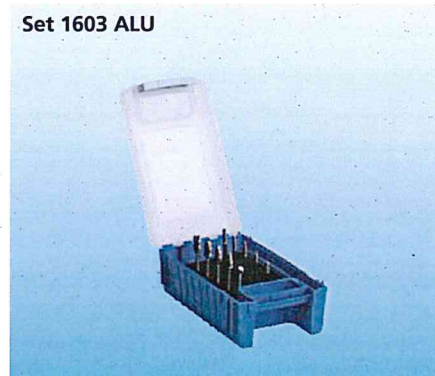
Contents:

10 tungsten carbide burrs,
shank diameter 3 mm, cut ALU

1 piece each:

SPG 0313/3 ALU	SPG 0613/3 ALU
ZYAS 0313/3 ALU	ZYAS 0613/3 ALU
RBF 0313/3 ALU	RBF 0613/3 ALU
WRC 0313/3 ALU	WRC 0613/3 ALU
KUD 0302/3 ALU	KUD 0605/3 ALU

Set 1603 ALU



Description

Cut

ALU

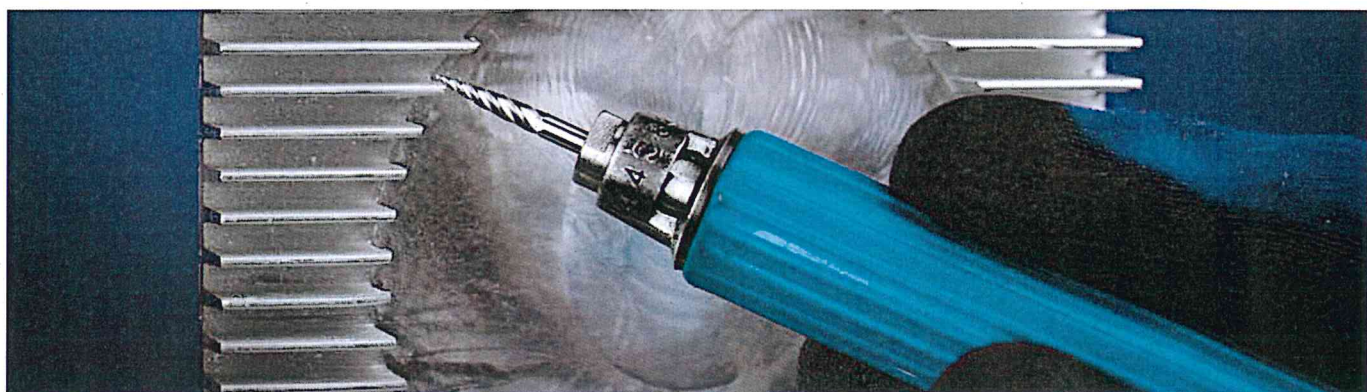


EAN 4007220



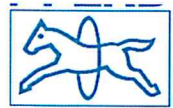
Shank dia. 3 mm

N! 1603 ALU	004401	1
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New in the PFERD product range 202

TC burrs for GRP/CRP



Tungsten carbide burrs with PLAST, FVK and FVKS cuts are suitable for trimming and contour milling of a wide range of fibre-reinforced plastics (GRP/CRP).

Burrs with end cut (BS) or with center drill (ZBS) allow combined drilling and cutting tasks.

Burrs with end cut (STS) allow the drilling of holes with little burr formation. The version with flat end cut (FSTS) is used for milling grooves and pockets. Both versions are only for use on machines and on robots.

The special tooth geometry allows high feed rates due to the low resistance. In addition these burrs are characterized by smooth milling.

Application examples:

- Trimming
- Contour milling
- Creating cut-outs
- Deburring
- Milling of slots (with FSTS)
- Drilling of blind holes (with FSTS)
- Milling with little burr formation (with STS)

Recommendations for use:

- The design with special end cut (BS) is particularly suitable for machine and robot use, while the version with center drill (ZBS) is used for manual applications. It allows secure drilling on almost all surface conditions.
- The versions with end cut (STS) and flat end cut (FSTS) are exclusively for use on machines and on robots.
- Select a burr diameter greater than the thickness of the material to be machined, to avoid impacts and chattering with the risk of damaging or breaking the tool.
- Increase the rotational speed if the tool tends to chatter.
- If necessary, reduce the rotational speed and contact pressure if melting occurs.

Cut PLAST



Tungsten carbide burrs with the PLAST cut are particularly suitable for use on less hard glass- and carbon-fibre-reinforced duroplastics (GRP and CRP ≤ 40 % fibre content) and fibre-reinforced thermoplastics.

The cut (similar to PCD milling) minimizes delamination and fraying.

Advantages:

- Particularly suitable for GRP and CRP ≤ 40 % fibre content
- Minimizes delamination and fraying due to the special cut that is similar to PCD mills
- Very suitable for machine use and robot use
- Very low cutting force
- High feed rates

PFERDERGONOMICS® recommends burrs with PLAST cut as an innovative tool solution for comfortable working with significantly reduced vibration and lower noise.



PFERDEFFICIENCY® recommends burrs with PLAST cut for long, fatigue-free and resource-saving work, with perfect results in the shortest possible time.



Cut FVK



Cut FVKS



Tungsten carbide burrs with FVK and FVKS cuts can be used on hard glass- and carbonfibre-reinforced duroplastics (GRP and CRP > 40 % fibre content).

Due to its high concentricity, the FVK cut is suitable for tool machines and manual applications.

The FVKS cut is suitable for use on machines and robots with high feed rates. It is characterized by smooth milling and produces a smooth cut edge.

Advantages:

- Particularly suitable for GRP and CRP > 40 % fibre content
- The FVKS cut produces smooth edges and is characterized by smooth milling



More PFERD tools and a large number of application tips on working with plastics can be found in our PRAXIS brochure "PFERD tools for use on plastics". Please contact us.



PFERDVIDEO

You will receive more information here or at www.pferd.com

Recommended rotational speed range

To determine the recommended rotational speed range, please proceed as follows:

- ① Select the material group to be machined
- ② Select the cut
- ③ Refer to the table for the cutting speed range

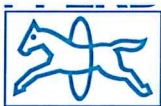
- ④ Select the required burr diameter
- ⑤ The cutting speed range and the burr diameter determine the recommended rotational speed range

① Material groups	Application	② Cut	③ Cutting speed
Plastics, other materials	Trimming, contour milling, creating cut-outs, deburring	PLAST	450–900 m/min
		FVK	
		FVKS	

Example:

TC burr,
Cut PLAST,
Burr dia. 8 mm.
Trimming of plastics.
Cutting speed: 450–900 m/min
Rotational speed: 18,000–36,000 RPM

① Burr dia. [mm]	⑤ Cutting speed [m/min]	
	450	900
	Rotational speed [RPM]	
6	24,000	48,000
8	18,000	36,000



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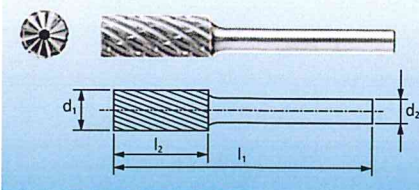
TC burrs for steel and cast steel





Cylindrical burr according to DIN 8032.
Shape ZYAS with circumferential and end cut.

Ordering example:
EAN 4007220937198
ZYA 0616/6 STEEL
Please complete the description with the desired cut.

Cylindrical shape ZYA
Cylindrical shape ZYAS with end cut

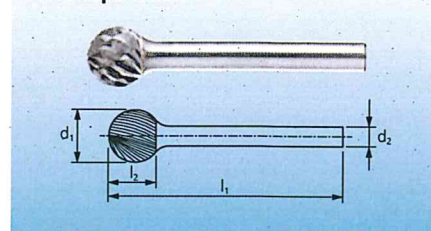




Description	Cut STEEL 	Shank dia. d_2 [mm]	Burr dia. x length $d_1 \times l_2$ [mm]	Overall length l_1 [mm]	
EAN 4007220					
Shank dia. 6 mm without end cut					
ZYA 0616/6	937198	6	6 x 16	55	1
ZYA 0820/6	937211	6	8 x 20	60	1
ZYA 1020/6	937235	6	10 x 20	60	1
ZYA 1225/6	937242	6	12 x 25	65	1
N! ZYA 1625/6	002360	6	16 x 25	65	1
Shank dia. 6 mm with end cut					
ZYAS 0616/6	937259	6	6 x 16	55	1
ZYAS 0820/6	937266	6	8 x 20	60	1
ZYAS 1020/6	937310	6	10 x 20	60	1
ZYAS 1225/6	937341	6	12 x 25	65	1
N! ZYAS 1625/6	002889	6	16 x 25	65	1

Ball-shaped burr according to DIN 8032.

Ordering example:
EAN 4007220936832
KUD 0605/6 STEEL
Please complete the description with the desired cut.

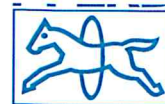
Ball shape KUD



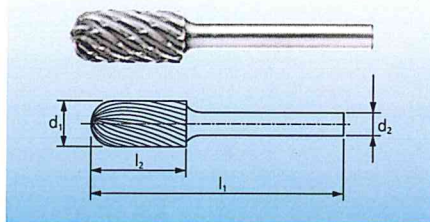
Description	Cut STEEL 	Shank dia. d_2 [mm]	Burr dia. x length $d_1 \times l_2$ [mm]	Overall length l_1 [mm]	
EAN 4007220					
Shank dia. 6 mm					
KUD 0605/6	936832	6	6 x 5	45	1
KUD 0807/6	936849	6	8 x 7	47	1
KUD 1009/6	936863	6	10 x 9	49	1
KUD 1210/6	936870	6	12 x 10	51	1
N! KUD 1614/6	003008	6	16 x 14	54	1

New in the PFERD product range 202

TC burrs for steel and cast steel



Cylindrical shape with radius end WRC



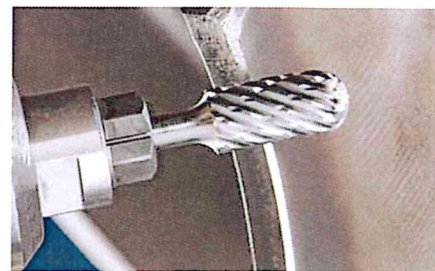
Cylindrical burr with radius end according to DIN 8032. Combination of cylindrical and ball-shaped geometries.

Ordering example:

EAN 4007220937129

WRC 0616/6 STEEL

Please complete the description with the desired cut.



Description

Cut

STEEL



EAN 4007220

Shank
dia.
 d_2
[mm]

Burr dia.
x length
 $d_1 \times l_2$
[mm]

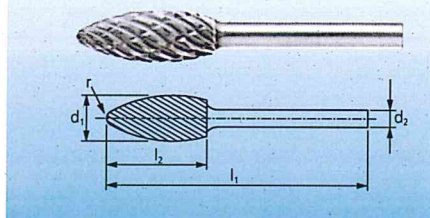
Overall length
 l_1
[mm]



Shank dia. 6 mm

WRC 0616/6	937129	6	6 x 16	55	1
WRC 0820/6	937150	6	8 x 20	60	1
WRC 1020/6	937174	6	10 x 20	60	1
WRC 1225/6	936696	6	12 x 25	65	1
N! WRC 1625/6	003022	6	16 x 25	65	1

Flame shape B



Flame-shaped burr according to ISO 7755/8.

Ordering example:

EAN 4007220936719

B 0820/6 STEEL

Please complete the description with the desired cut.

Description

Cut

STEEL



EAN 4007220

Shank
dia.
 d_2
[mm]

Burr dia.
x length
 $d_1 \times l_2$
[mm]

Overall length
 l_1
[mm]

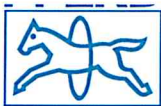
Radius
 r
[mm]



Shank dia. 6 mm

B 0820/6	936719	6	8 x 20	60	1.5	1
B 1230/6	936764	6	12 x 30	70	2.1	1
N! B 1635/6	003039	6	16 x 35	75	2.6	1





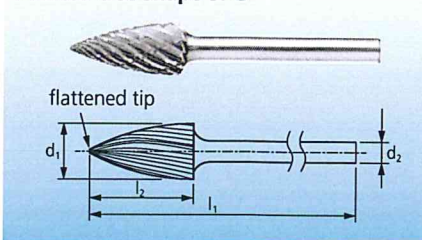
New in the PFERD product range 202



TC burrs for steel and cast steel

Pointed tree-shaped burr according to DIN 8032, flattened tip.

Ordering example:
 EAN 4007220937013
 SPG 1020/6 STEEL
 Please complete the description with the desired cut.

Pointed tree shape SPG

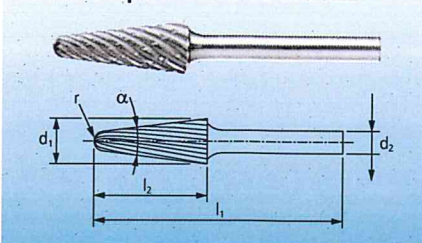




Description	Cut STEEL 	Shank dia. d_2 [mm]	Burr dia. x length $d_1 \times l_2$ [mm]	Overall length l_1 [mm]	
EAN 4007220					
Shank dia. 6 mm					
SPG 0618/6	936979	6	6 x 18	55	1
SPG 0820/6	936993	6	8 x 20	60	1
SPG 1020/6	937013	6	10 x 20	60	1
SPG 1225/6	937082	6	12 x 25	65	1
N! SPG 1630/6	003046	6	16 x 30	70	1

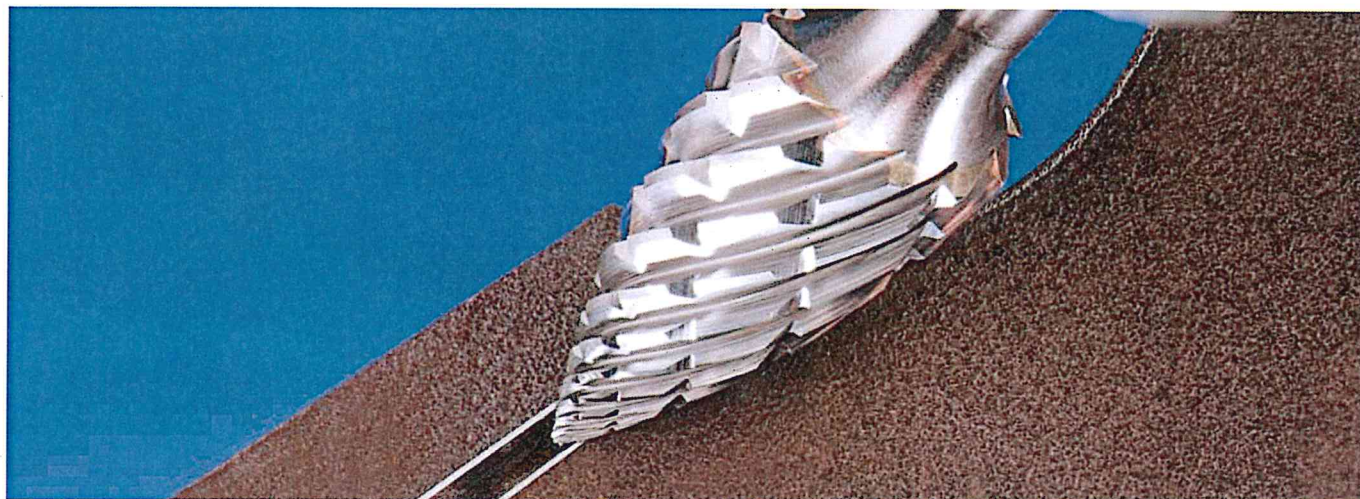
Conical burr with radius end according to DIN 8032.

Ordering example:
 EAN 4007220936818
 KEL 1230/6 STEEL
 Please complete the description with the desired cut.

Conical shape with radius end KEL

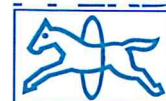


Description	Cut STEEL 	Shank dia. d_2 [mm]	Burr dia. x length $d_1 \times l_2$ [mm]	Overall length l_1 [mm]	Angle α	Radius r [mm]	
EAN 4007220							
Shank dia. 6 mm							
KEL 1020/6	936771	6	10 x 20	60	14°	2.9	1
KEL 1230/6	936818	6	12 x 30	70	14°	2.6	1
N! KEL 1630/6	003053	6	16 x 30	70	14°	4.8	1

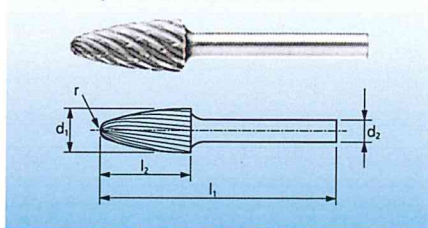


New in the PFERD product range 202

TC burrs for steel and cast steel



Tree shape with radius end RBF





Tree-shaped burr with radius end according to DIN 8032.

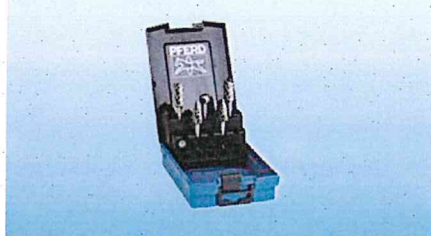
Ordering example:
EAN 4007220936887

RBF 0618/6 STEEL

Please complete the description with the desired cut.

Description	Cut STEEL	Shank dia. d_2 [mm]	Burr dia. x length $d_1 \times l_2$ [mm]	Overall length l_1 [mm]	Radius r [mm]	
						
EAN 4007220						
Shank dia. 6 mm						
RBF 0618/6	936887	6	6 x 18	55	1.5	1
RBF 0820/6	936900	6	8 x 20	60	1.2	1
RBF 1020/6	936924	6	10 x 20	60	2.5	1
RBF 1225/6	936931	6	12 x 25	65	2.5	1
N! RBF 1630/6	003060	6	16 x 30	70	3.6	1

Set 1812 STEEL



Set 1812 STEEL contains five tungsten carbide burrs for work on steel and cast steel in the most common shapes and dimensions. The sturdy plastic box protects the tools from dirt and damage.

The burrs are secured at the shanks, facilitating the selection and withdrawal of the tools.

Five further unused slots are available for other burrs.

Contents:

5 tungsten carbide burrs,
shank diameter 6 mm, cut STEEL

1 piece each:

ZYA 1225/6 STEEL



KUD 1210/6 STEEL

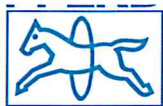
WRC 1225/6 STEEL

RBF 1225/6 STEEL

SPG 1225/6 STEEL

Description

Cut STEEL	
	
EAN 4007220	
N! 1812 STEEL	004357
	1



New in the PFERD product range 202

TC burrs for stainless steel (INOX)

Cut INOX

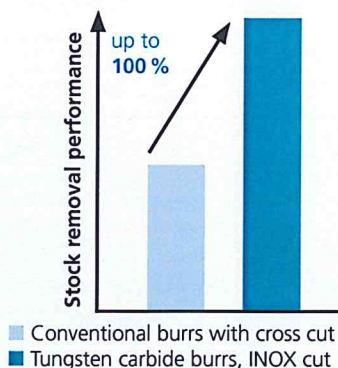


PFERD has developed innovative burrs with INOX cut for work on stainless steel (INOX). The INOX cut is characterized by an extremely high stock removal performance on all austenitic as well as rust- and acid-resistant steels. It creates significantly less vibration than a comparable cross cut.

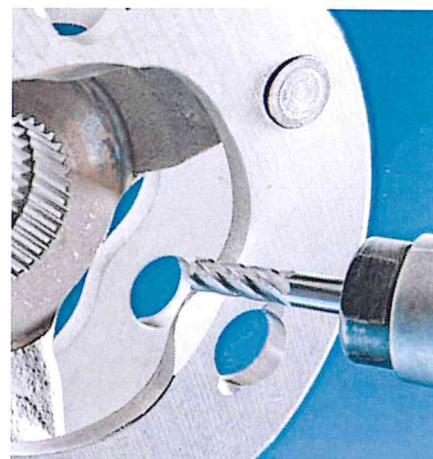
Advantages:

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

Performance values for applications on stainless steel (INOX)



PFERDERGONOMICS® recommends burrs with INOX cut as an innovative tool solution for comfortable working with significantly reduced vibration and lower noise.



PFERDEFFICIENCY® recommends burrs with INOX cut for long, fatigue-free and resource-saving work, with perfect results in the shortest possible time.



Recommended rotational speed range

To determine the recommended rotational speed range, please proceed as follows:

- 1 Select the material group to be machined
- 2 Refer to the table for the cutting speed

- 3 Select the required burr diameter
- 4 The cutting speed range and the burr diameter determine the recommended rotational speed range



PFERDVIDEO

You will receive more information here or at www.pferd.com

1 Material group			Application	Cut	2 Cutting speed
Stainless steel (INOX)	Rust- and acid-resistant steels	Austenitic and ferritic stainless steels	Coarse stock removal	INOX	450–600 m/min
Non-ferrous metals	Soft non-ferrous metals	Soft titanium alloys	Coarse stock removal	INOX	250–450 m/min

Example:

TC burr,
Cut INOX,
Burr dia. 12 mm.
Coarse stock removal on stainless steel (INOX).
Cutting speed: 450–600 m/min
Rotational speed: 12,000–16,000 RPM

3 Burr dia. [mm]	4 Cutting speed [m/min]		
	250	450	600
	Rotational speed [RPM]		
3	27,000	48,000	64,000
4	20,000	36,000	48,000
5	16,000	29,000	40,000
6	13,000	24,000	32,000
8	10,000	18,000	24,000
10	8,000	14,000	19,000
12	7,000	12,000	16,000

Note:

TC burrs with INOX cut are also suitable for processing soft titanium alloys (tensile strength <500 N/mm²). The special tooth geometry of these burrs prevents the chip spaces from clogging up, especially when machining soft, lubricating materials.

Recommendations for use:

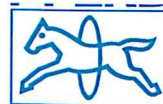
- Reduce the rotational speed when you machine titanium instead of stainless steel (INOX). A maximum rotational speed of 450 m/min is recommended.
- Determine the individual rotational speed depending on the titanium alloy to be processed.

- Reduce the rotational speed if too many flying sparks are generated. Depending on the titanium alloy to be processed, flying sparks cannot be prevented completely.

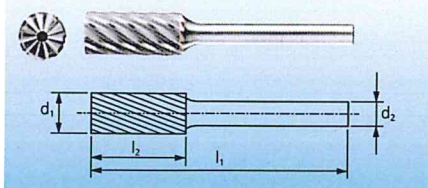
TC burrs with TITANIUM cut are suitable for titanium materials with a tensile strength of >500 N/mm² (see page 20).

New in the PFERD product range 202

TC burrs for stainless steel (INOX)



Cylindrical shape ZYA Cylindrical shape ZYAS with end cut



Cylindrical burr according to DIN 8032.


Ordering example:

EAN 4007220900499

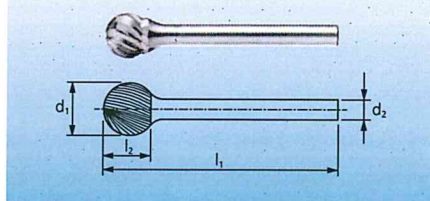
ZYA 0616/6 INOX

Please complete the description with the desired cut.



Description	Cut INOX	Shank dia. d ₂ [mm]	Burr dia. x length d ₁ x l ₂ [mm]	Overall length l ₁ [mm]	
EAN 4007220					
Shank dia. 3 mm					
ZYA 0313/3	930380	3	3 x 13	43	1
ZYA 0613/3	930403	3	6 x 13	43	1
Shank dia. 3 mm with end cut					
N! ZYAS 0313/3	034453	3	3 x 13	43	1
N! ZYAS 0613/3	034460	3	6 x 13	43	1
Shank dia. 6 mm					
ZYA 0616/6	900499	6	6 x 16	55	1
ZYA 0820/6	952245	6	8 x 20	60	1
ZYA 1020/6	952252	6	10 x 20	60	1
ZYA 1225/6	900505	6	12 x 25	65	1
Shank dia. 6 mm with end cut					
N! ZYAS 0616/6	034477	6	6 x 16	55	1
N! ZYAS 1225/6	034484	6	12 x 25	65	1

Ball shape KUD




Ball-shaped burr according to DIN 8032.

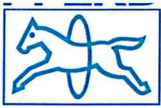
Ordering example:

EAN 4007220900536

KUD 0605/6 INOX

Please complete the description with the desired cut.

Description	Cut INOX	Shank dia. d ₂ [mm]	Burr dia. x length d ₁ x l ₂ [mm]	Overall length l ₁ [mm]	
EAN 4007220					
Shank dia. 3 mm					
KUD 0302/3	930434	3	3 x 2	33	1
N! KUD 0403/3	034439	3	4 x 3	34	1
N! KUD 0504/3	034446	3	5 x 4	35	1
KUD 0605/3	930441	3	6 x 5	35	1
Shank dia. 6 mm					
KUD 0605/6	900536	6	6 x 5	45	1
KUD 0807/6	952269	6	8 x 7	47	1
KUD 1009/6	952276	6	10 x 9	49	1
KUD 1210/6	900543	6	12 x 10	51	1



New in the PFERD product range 202

TC burrs for stainless steel (INOX)

Pointed tree-shaped burr according to DIN 8032, flattened tip.

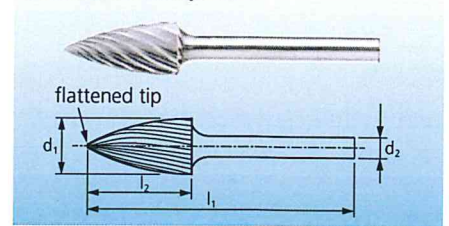
Ordering example:



EAN 4007220936948

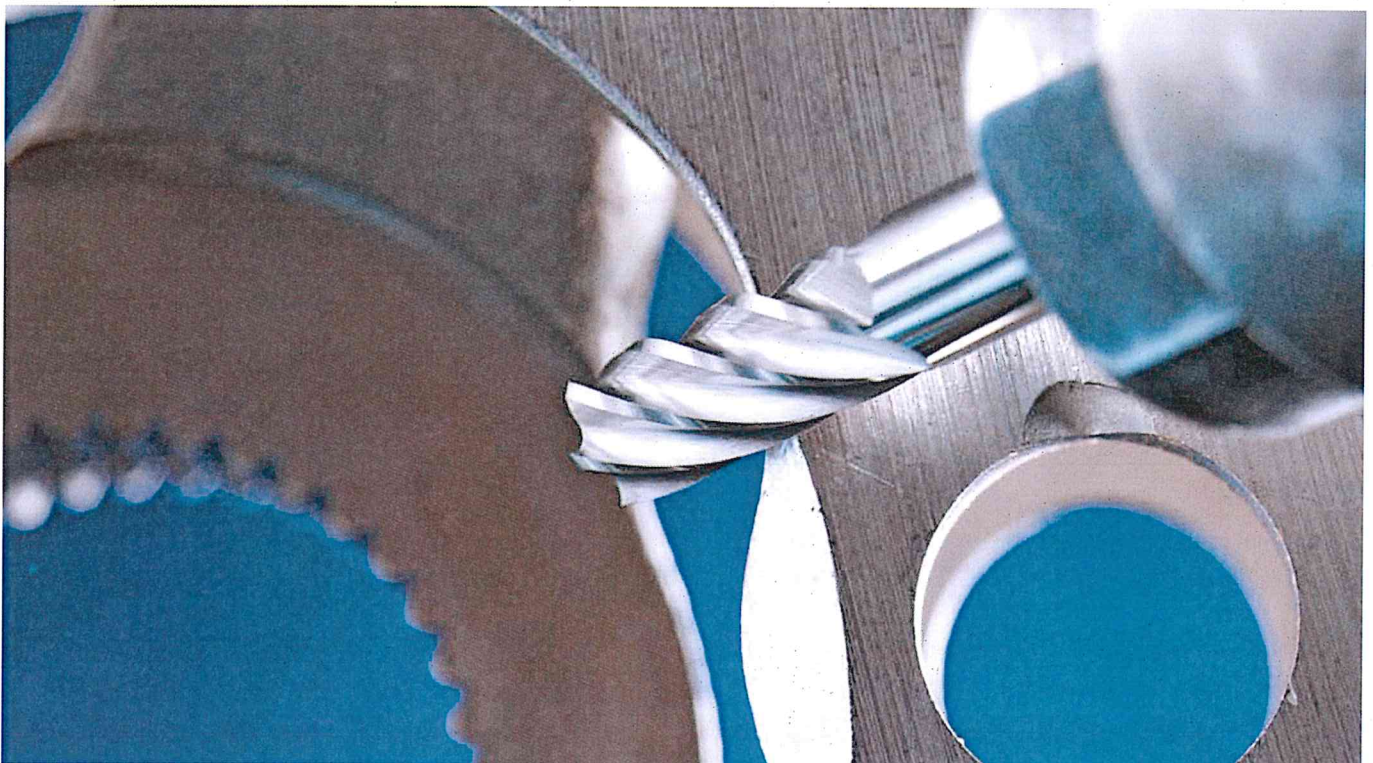
SPG 0618/6 INOX

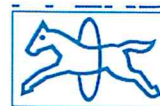
Please complete the description with the desired cut.

Pointed tree shape SPG



Description	Cut INOX 	Shank dia. d_2 [mm]	Burr dia. x length $d_1 \times l_2$ [mm]	Overall length l_1 [mm]	
EAN 4007220					
Shank dia. 3 mm					
N! SPG 0307/3	034491	6	3 x 7	37	1
N! SPG 0313/3	034507	6	3 x 13	43	1
N! SPG 0613/3	034514	6	6 x 13	43	1
Shank dia. 6 mm					
SPG 0618/6	936948	6	6 x 18	55	1
SPG 0820/6	952320	6	8 x 20	60	1
SPG 1020/6	952337	6	10 x 20	60	1
SPG 1225/6	936894	6	12 x 25	65	1





Cut TITANIUM



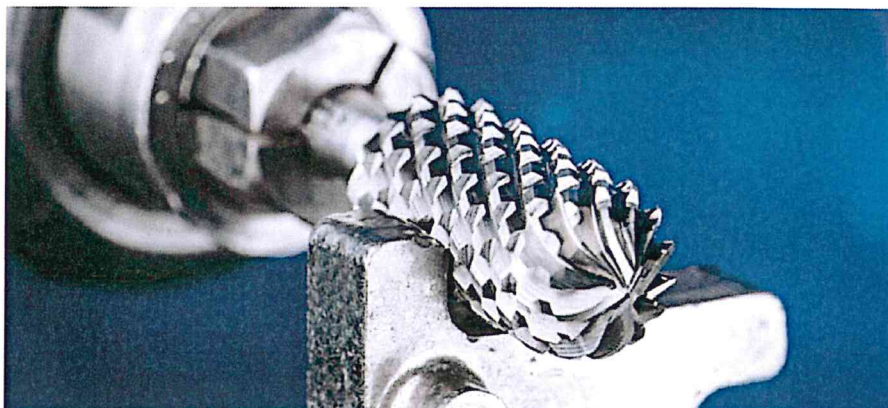
The TITANIUM cut was specially developed for machining hard titanium materials (tensile strength $>500 \text{ N/mm}^2$). It is characterized by an extremely high stock removal performance on this material group, which is very hard to machine. TC burrs with TITANIUM cut impress with smooth milling with significantly reduced vibrations and less noise.

Advantages:

- Excellent stock removal performance and tool life through innovative tooth geometry
- Significantly increased aggressiveness, large chips, very good chip removal

Recommendations for use:

- Determine the individual rotational speed depending on the titanium alloy to be processed.
- Reduce the rotational speed if too many flying sparks are generated. Depending on the titanium alloy to be processed, flying sparks cannot be prevented completely.



PFERDERGONOMICS® recommends burrs with TITANIUM cut as an innovative tool solution for comfortable working with significantly reduced vibration and lower noise.



PFERDVIDEO

You will receive more information here or at www.pferd.com

PFERDEFFICIENCY® recommends burrs with TITANIUM cut for long, fatigue-free and resource-saving work, with perfect results in the shortest possible time.



Recommended rotational speed range

To determine the recommended rotational speed range, please proceed as follows:

- 1 Refer to the table for the cutting speed
- 2 Select the required burr diameter

- 3 The cutting speed range and the burr diameter determine the recommended rotational speed range

Material group			Application	Cut	1 Cutting speed
Non-ferrous metals	Hard non-ferrous metals	Hard titanium alloys	Coarse stock removal	TITANIUM	250–450 m/min

Example:

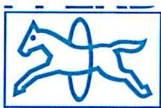
TC burr,
Cut TITANIUM,
Burr dia. 12 mm.
Coarse stock removal on hard titanium alloys.
Cutting speed: 250–450 m/min
Rotational speed: 7,000–12,000 RPM

2 Burr dia. [mm]	3 Cutting speed [m/min]	
	250	450
	Rotational speed [RPM]	
3	27,000	48,000
4	20,000	36,000
5	16,000	29,000
6	13,000	24,000
12	7,000	12,000

Note:

We recommend TC burrs with INOX cut for processing soft titanium alloys (tensile strength $<500 \text{ N/mm}^2$). The special tooth geometry of these burrs prevents the chip spaces from clogging up, especially when machining soft, lubricating materials (see page 15).





New in the PFERD product range 202

TC burrs for titanium



Cylindrical burr according to DIN 8032 with cut on circumference and end.

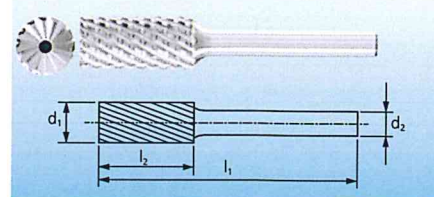
Ordering example:

EAN 4007220034217

ZYAS 0313/3 TITANIUM

Please complete the description with the desired cut.

Cylindrical shape ZYAS with end cut



Description	Cut	Shank dia. d ₂ [mm]	Burr dia. x length d ₁ x l ₂ [mm]	Overall length l ₁ [mm]	
	TITANIUM				
	EAN 4007220				

Shank dia. 3 mm with end cut

N! ZYAS 0313/3	034217	3	3 x 13	43	1
N! ZYAS 0613/3	034224	3	6 x 13	43	1

Shank dia. 6 mm with end cut

N! ZYAS 0616/6	034248	6	6 x 16	55	1
N! ZYAS 1225/6	034255	6	12 x 25	65	1



Ball-shaped burr according to DIN 8032.

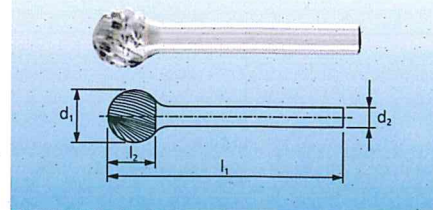
Ordering example:

EAN 4007220034194

KUD 0605/6 TITANIUM

Please complete the description with the desired cut.

Ball shape KUD



Description	Cut	Shank dia. d ₂ [mm]	Burr dia. x length d ₁ x l ₂ [mm]	Overall length l ₁ [mm]	
	TITANIUM				
	EAN 4007220				

Shank dia. 3 mm

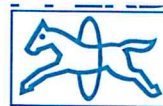
N! KUD 0302/3	034149	3	3 x 2	32	1
N! KUD 0403/3	034163	3	4 x 3	34	1
N! KUD 0504/3	034170	3	5 x 4	35	1
N! KUD 0605/3	034187	3	6 x 5	35	1

Shank dia. 6 mm

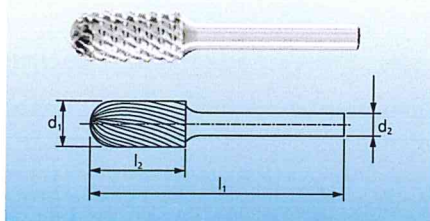
N! KUD 0605/6	034194	6	6 x 5	35	1
N! KUD 1210/6	034200	6	12 x 10	51	1

New in the PFERD product range 202

TC burrs for titanium



Cylindrical shape with radius end WRC



Cylindrical burr with radius end according to DIN 8032. Combination of cylindrical and ball-shaped geometries.



Ordering example:

EAN 4007220034330

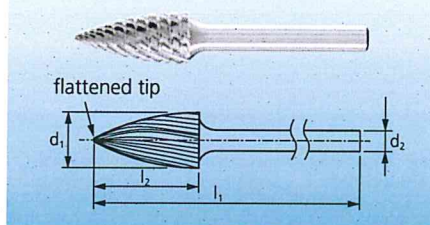
WRC 0616/6 TITANIUM

Please complete the description with the desired cut.



Description	Cut TITANIUM	Shank dia. d ₂ [mm]	Burr dia. x length d ₁ x l ₂ [mm]	Overall length l ₁ [mm]	
					
	EAN 4007220				
Shank dia. 3 mm					
N! WRC 0313/3	034309	3	3 x 13	43	1
N! WRC 0613/3	034316	3	6 x 13	43	1
Shank dia. 6 mm					
N! WRC 0616/6	034330	6	6 x 16	55	1
N! WRC 1225/6	034347	6	12 x 25	65	1

Pointed tree shape SPG





Pointed tree-shaped burr according to DIN 8032, flattened tip.

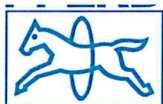
Ordering example:

EAN 4007220034323

SPG 0307/3 TITANIUM

Please complete the description with the desired cut.

Description	Cut TITANIUM	Shank dia. d ₂ [mm]	Burr dia. x length d ₁ x l ₂ [mm]	Overall length l ₁ [mm]	
					
	EAN 4007220				
Shank dia. 3 mm					
N! SPG 0307/3	034323	3	3 x 7	37	1
N! SPG 0313/3	034392	3	3 x 13	43	1
N! SPG 0613/3	034408	3	6 x 13	43	1
Shank dia. 6 mm					
N! SPG 0618/6	034415	6	6 x 18	55	1
N! SPG 1225/6	034422	6	12 x 25	65	1



New in the PFERD product range 202

TC burrs for titanium

Tree-shaped burr with radius end according to DIN 8032.

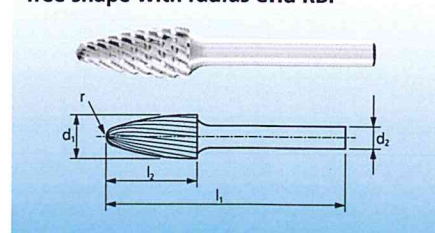
Ordering example:

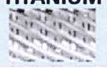

EAN 4007220034378

RBF 0618/6 TITANIUM

Please complete the description with the desired cut.

Tree shape with radius end RBF



Description	Cut	Shank dia. d_2 [mm]	Burr dia. x length d_1 x l_2 [mm]	Overall length l_1 [mm]	Radius r [mm]	
	TITANIUM					
						
	EAN 4007220					
Shank dia. 3 mm						
NI RBF 0313/3	034354	3	3 x 13	43	0.75	1
NI RBF 0613/3	034361	3	6 x 13	43	1.5	1
Shank dia. 6 mm						
NI RBF 0618/6	034378	6	6 x 18	55	1.5	1
NI RBF 1225/6	034385	6	12 x 25	65	2.5	1

