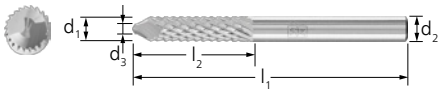
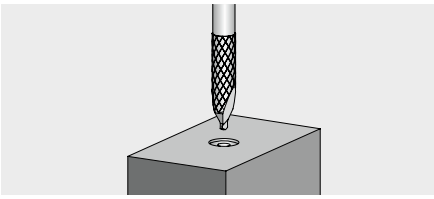
TC burrs for high-performance applications
FVK and FVKS cuts for GRP/CRP



Cylindrical shape ZYA with centre drill (ZBS)

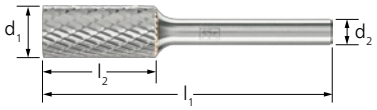
Cylindrical burr with centre drill (ZBS) for general use on hard duroplastics (also GRP and CRP with > 40% fibre content).



Special features:
- For combined drilling and milling work in manual, machine and robot applications.

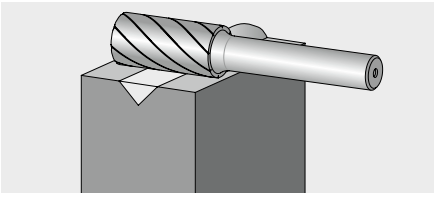
d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	Cut	RPM		Item no.	Designation
Tungsten carbide burrs								
6	25	6	65	FVK	24,000 – 48,000	1	21457696	ZYA 0625/6 FVK ZBS
				FVKS	24,000 – 48,000	1	21457697	ZYA 0625/6 FVKS ZBS

TOUGH and TOUGH-S cuts for tough applications



Cylindrical shape ZYA without end cut

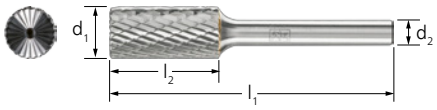
Cylindrical burr according to DIN 8032 for tough applications in dockyards, foundries and steel construction. The extremely impact-resistant cut minimizes tooth chipping/breakage, splintering and burr failure. Ideal for use as long-shank variants.



Special features:
- Can also be used in low rotational speed ranges.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

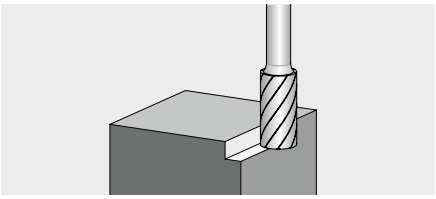
d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	Cut		Item no.	Designation
Tungsten carbide burrs							
8	20	6	60	TOUGH	1	*21000013*	ZYA 0820/6 TOUGH
10	20	6	60	TOUGH	1	*21000015*	ZYA 1020/6 TOUGH
12	25	6	65	TOUGH	1	*21000016*	ZYA 1225/6 TOUGH
				TOUGH-S	1	*21000017*	ZYA 1225/6 TOUGH-S

Discontinued product



Cylindrical shape ZYAS with end cut

Cylindrical burr according to DIN 8032 with circumferential and end cut for tough applications in dockyards, foundries and steel construction. The extremely impact-resistant cut minimizes tooth chipping/breakage, splintering and burr failure. Ideal for use as long-shank variants.

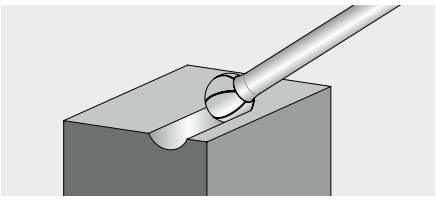


Special features:
- Can also be used in low rotational speed ranges.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	Cut		Item no.	Designation
Tungsten carbide burrs							
8	20	6	60	TOUGH	1	21000003	ZYAS 0820/6 TOUGH
10	20	6	60	TOUGH	1	21000005	ZYAS 1020/6 TOUGH
12	25	6	65	TOUGH	1	21000007	ZYAS 1225/6 TOUGH
		8	65	TOUGH	1	*21000006*	ZYAS 1225/8 TOUGH

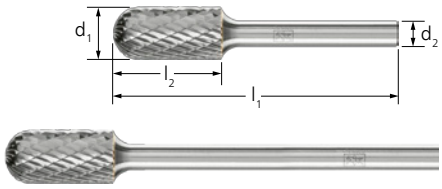
Ball shape KUD

Ball-shaped burr according to DIN 8032 for tough applications in dockyards, foundries and steel construction. The extremely impact-resistant cut minimizes tooth chipping/breakage, splintering and burr failure. Ideal for use as long-shank variants.



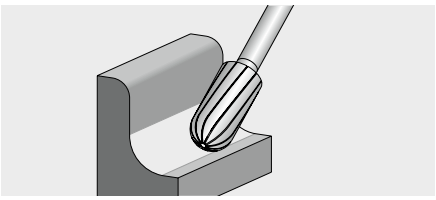
Special features:
- Can also be used in low rotational speed ranges.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	Cut		Item no.	Designation
Tungsten carbide burrs							
12	10	6	51	TOUGH	1	*21000056*	KUD 1210/6 TOUGH



Cylindrical shape with radius end WRC

Cylindrical burr with radius end according to DIN 8032 for tough applications in dockyards, foundries and steel construction. The extremely impact-resistant cut minimizes tooth chipping/breakage, splintering and burr failure. Ideal for use as long-shank variants.



Special features:
- Can also be used in low rotational speed ranges.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	Cut		Item no.	Designation
Tungsten carbide burrs							
8	20	6	60	TOUGH	1	21000033	WRC 0820/6 TOUGH
10	20	6	60	TOUGH	1	21000035	WRC 1020/6 TOUGH
12	25	6	65	TOUGH	1	21000036	WRC 1225/6 TOUGH
				TOUGH-S	1	21000038	WRC 1225/6 TOUGH-S

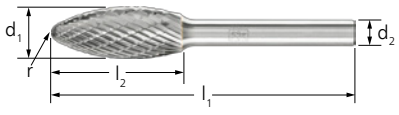
Continued on next page

Discontinued product

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	Cut		Item no.	Designation
12	25	8	65	TOUGH	1	21000037	WRC 1225/8 TOUGH

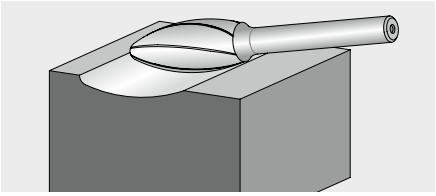
Tungsten carbide burrs with long shanks, shank length SL (long steel shank)

12	25	6	175	TOUGH	1	21000130	WRC 1225/6 TOUGH SL 150



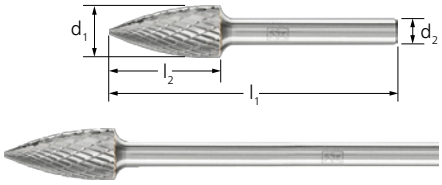
Flame-shaped B

Flame-shaped burr according to ISO 7755/8 for tough applications in dockyards, foundries and steel construction. The extremely impact-resistant cut minimizes tooth chipping/breakage, splintering and burr failure. Ideal for use as long-shank variants.



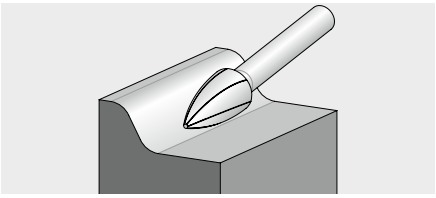
Special features:
- Can also be used in low rotational speed ranges.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	r [mm]	Cut		Item no.	Designation
Tungsten carbide burrs								
8	20	6	60	1.5	TOUGH	1	21000023	B 0820/6 TOUGH
12	30	6	70	2.1	TOUGH	1	*21000026*	B 1230/6 TOUGH
		8	70	2.1	TOUGH	1	*21000027*	B 1230/8 TOUGH



Pointed tree shape SPG Z5 HC-FEP

Pointed tree-shaped burr according to DIN 8032 with flattened tip for tough applications in dockyards, foundries and steel construction. The extremely impact-resistant cut minimizes tooth chipping/breakage, splintering and burr failure. Ideal for use as long-shank variants.

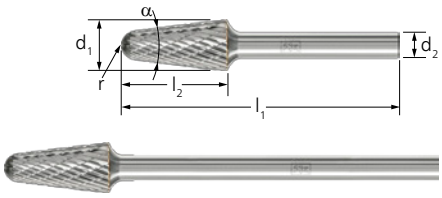


Special features:
- Can also be used in low rotational speed ranges.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	Cut		Item no.	Designation
Tungsten carbide burrs							
10	20	6	60	TOUGH	1	21000095	SPG 1020/6 TOUGH
				TOUGH-S	1	*21000096*	SPG 1020/6 TOUGH-S
12	25	6	65	TOUGH	1	21000097	SPG 1225/6 TOUGH

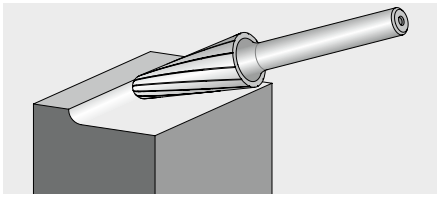
TC burrs for high-performance applications
TOUGH and TOUGH-S cuts for tough applications

PFERD TOOLS



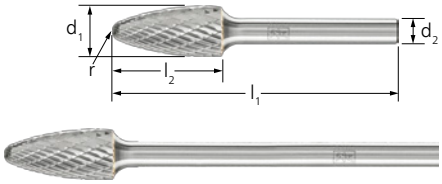
Conical shape with radius end KEL

Conical burr with round radius end according to DIN 8032 for tough applications in dockyards, foundries and steel construction. The extremely impact-resistant cut minimizes tooth chipping/ breakage, splintering and burr failure. Ideal for use as long-shank variants.



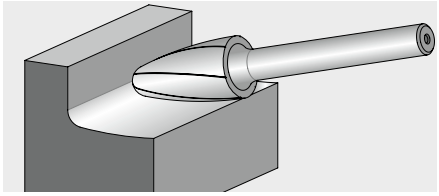
Special features:
- Can also be used in low rotational speed ranges.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	α [°]	r [mm]	Cut		Item no.	Designation
Tungsten carbide burrs									
12	25	6	65	14	3.3	TOUGH	1	21000116	KEL 1225/6 TOUGH
		8	65	14	3.3	TOUGH	1	21000117	KEL 1225/8 TOUGH
Tungsten carbide burrs with long shanks, shank length SL (long steel shank)									
12	25	6	175	14	3.3	TOUGH	1	*21000131*	KEL 1225/6 TOUGH SL 150



Tree shape with radius end RBF

Tree-shaped burr with radius end according to DIN 8032 for tough applications in dockyards, foundries and steel construction. The extremely impact-resistant cut minimizes tooth chipping/ breakage, splintering and burr failure. Ideal for use as long-shank variants.

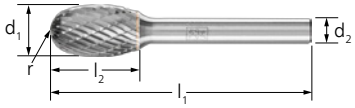


Special features:
- Can also be used in low rotational speed ranges.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	r [mm]	Cut		Item no.	Designation
Tungsten carbide burrs								
8	20	6	60	1.2	TOUGH	1	21000073	RBF 0820/6 TOUGH
10	20	6	60	2.5	TOUGH	1	21000075	RBF 1020/6 TOUGH
12	25	6	65	2.5	TOUGH	1	21000076	RBF 1225/6 TOUGH
					TOUGH-S	1	21000078	RBF 1225/6 TOUGH-S
16	25	6	65	4.9	TOUGH	1	*21000080*	RBF 1625/6 TOUGH
12	25	8	65	2.5	TOUGH	1	*21000077*	RBF 1225/8 TOUGH
					TOUGH-S	1	21000079	RBF 1225/8 TOUGH-S
Tungsten carbide burrs with long shanks, shank length SL (long steel shank)								
12	25	6	175	2.5	TOUGH	1	21000129	RBF 1225/6 TOUGH SL 150

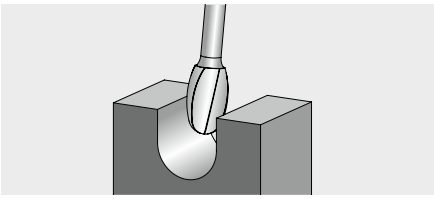
Discontinued product

TC burrs for high-performance applications
TOUGH and TOUGH-S cuts for tough applications



Oval shape TRE

Oval burr according to DIN 8032 for tough applications in dockyards, foundries and steel construction. The extremely impact-resistant cut minimizes tooth chipping/breakage, splintering and burr failure. Ideal for use as long-shank variants.



Special features:
- Can also be used in low rotational speed ranges.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	r [mm]	Cut		Item no.	Designation
Tungsten carbide burrs								
10	16	6	56	4	TOUGH	1	21000124	TRE 1016/6 TOUGH
12	20	6	60	5	TOUGH	1	21000126	TRE 1220/6 TOUGH

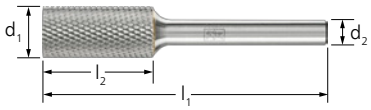
Set 1712 TOUGH

Set 1712 TOUGH contains five tungsten carbide burrs for tough applications in the most common shapes and dimensions.

Contents:
The set comprises one each of the following: WRC 1225/6 TOUGH, SPG 1225/6 TOUGH, RBF 1225/6 TOUGH, KEL 1225/6 TOUGH and TRE 1220/6 TOUGH with a shank diameter of 6 mm, cut TOUGH.

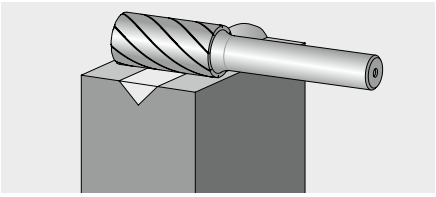
Special features:
- Five further unused slots are available for other burrs.
- The sturdy plastic box protects the tools against dirt and damage.
- The burrs are secured at the shanks, facilitating the selection and withdrawal of the tools.

Cut		Item no.	Designation
Tungsten carbide burrs			
TOUGH	1	21901712	SET 1712 TOUGH 5TLG



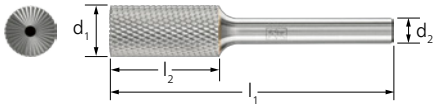
Cylindrical shape ZYA without end cut

Cylindrical burr according to DIN 8032 for fine stock removal. Burrs with the MICRO cut offer a higher stock removal rate than mounted/grinding points and impress with their high surface quality. They also operate with low vibration and little noise. Also available with wear-resistant HICOAT coating.



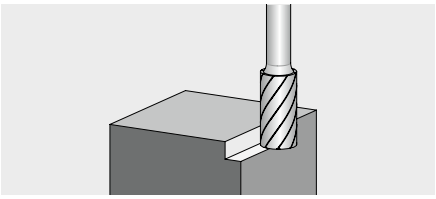
Special features:
- Unlike with mounted grinding points, there is no change in geometry due to wear and tear.
- Use on almost all materials up to 68 HRC.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	Cut		Item no.	Designation
Small tungsten carbide burrs							
3	13	3	43	MICRO HC-FEP	1	21201274	ZYA 0313/3 MICRO HC-FEP
4	13	3	43	MICRO HC-FEP	1	21201304	ZYA 0413/3 MICRO HC-FEP
6	13	3	43	MICRO HC-FEP	1	21201474	ZYA 0613/3 MICRO HC-FEP
2	10	3	40	MICRO	1	21201173	ZYA 0210/3 MICRO
3	13	3	43	MICRO	1	21201273	ZYA 0313/3 MICRO
4	13	3	43	MICRO	1	21201303	ZYA 0413/3 MICRO
6	13	3	43	MICRO	1	21201473	ZYA 0613/3 MICRO
Tungsten carbide burrs							
6	16	6	55	MICRO HC-FEP	1	21101677	ZYA 0616/6 MICRO HC-FEP
8	20	6	60	MICRO HC-FEP	1	21101777	ZYA 0820/6 MICRO HC-FEP
10	20	6	60	MICRO HC-FEP	1	21102177	ZYA 1020/6 MICRO HC-FEP
12	25	6	65	MICRO HC-FEP	1	21101977	ZYA 1225/6 MICRO HC-FEP
6	16	6	55	MICRO	1	21101676	ZYA 0616/6 MICRO
8	20	6	60	MICRO	1	21101776	ZYA 0820/6 MICRO
10	20	6	60	MICRO	1	21102176	ZYA 1020/6 MICRO
12	25	6	65	MICRO	1	21101976	ZYA 1225/6 MICRO



Cylindrical shape ZYAS with end cut

Cylindrical burr according to DIN 8032 with circumferential and end cut for fine stock removal. Burrs with the MICRO cut offer a higher stock removal rate than mounted/grinding points and impress with their high surface quality. They also operate with low vibration and little noise. Also available with wear-resistant HICOAT coating.



Special features:
- 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.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	Cut		Item no.	Designation
Tungsten carbide burrs							
6	16	6	55	MICRO HC-FEP	1	21100277	ZYAS 0616/6 MICRO HC-FEP
8	20	6	60	MICRO HC-FEP	1	21100377	ZYAS 0820/6 MICRO HC-FEP
10	20	6	60	MICRO HC-FEP	1	21100777	ZYAS 1020/6 MICRO HC-FEP
12	25	6	65	MICRO HC-FEP	1	21100577	ZYAS 1225/6 MICRO HC-FEP
6	16	6	55	MICRO	1	21100276	ZYAS 0616/6 MICRO
8	20	6	60	MICRO	1	21100376	ZYAS 0820/6 MICRO

Continued on next page

New item