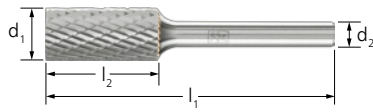


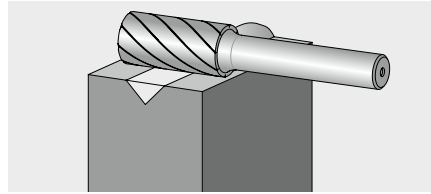
TC burrs for universal applications

For fine and coarse stock removal



Cylindrical shape ZYA without end cut

Cylindrical burrs according to DIN 8032 with cut conforming to DIN 8033 for general use on all materials. A good stock removal rate is achieved through optimum matching of tungsten carbide, geometry, cut and available coating.



Special features:

- Long tool life and high surface quality.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.
- Also available with the high-quality HICOAT coating for a much higher stock removal rate.

d ₁ [mm]	l ₂ [mm]	d ₂ [mm]	l ₁ [mm]	Cut		Item no.	Designation
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Small tungsten carbide burrs

3	13	3	43	3 PLUS HC-FEP	1	21201284	ZYA 0313/3 Z3 PLUS HC-FEP
				5 HC-FEP	1	21201254	ZYA 0313/3 Z5 HC-FEP
6	13	3	43	3 PLUS HC-FEP	1	21201484	ZYA 0613/3 Z3 PLUS HC-FEP
				5 HC-FEP	1	21201454	ZYA 0613/3 Z5 HC-FEP
2	10	3	40	3 PLUS	1	21201183	ZYA 0210/3 Z3 PLUS
				4	1	21201143	ZYA 0210/3 Z4
				5	1	21201153	ZYA 0210/3 Z5
3	13	3	43	3 PLUS	1	21201283	ZYA 0313/3 Z3 PLUS
				4	1	21201243	ZYA 0313/3 Z4
				5	1	21201253	ZYA 0313/3 Z5
6	7	3	37	3 PLUS	1	21201383	ZYA 0607/3 Z3 PLUS
				5	1	21201353	ZYA 0607/3 Z5
	13	3	43	3 PLUS	1	21201483	ZYA 0613/3 Z3 PLUS
				5	1	21201453	ZYA 0613/3 Z5

Tungsten carbide burrs

6	16	6	55	3 HC-FEP	1	21101607	ZYA 0616/6 Z3 HC-FEP
				5 HC-FEP	1	21101657	ZYA 0616/6 Z5 HC-FEP
10	20	6	60	3 HC-FEP	1	21102107	ZYA 1020/6 Z3 HC-FEP
				5 HC-FEP	1	21102157	ZYA 1020/6 Z5 HC-FEP
12	25	6	65	3 HC-FEP	1	21101907	ZYA 1225/6 Z3 HC-FEP
				5 HC-FEP	1	21101957	ZYA 1225/6 Z5 HC-FEP
4	13	6	55	3 PLUS	1	21101526	ZYA 0413/6 Z3 PLUS
				4	1	21101546	ZYA 0413/6 Z4
				5	1	21101556	ZYA 0413/6 Z5
6	16	6	55	3	1	21101606	ZYA 0616/6 Z3
				3 PLUS	1	21101626	ZYA 0616/6 Z3 PLUS
				3 PLUS HC-FEP	1	21101624	ZYA 0616/6 Z3 PLUS HC-FEP
				4	1	21101646	ZYA 0616/6 Z4
				5	1	21101656	ZYA 0616/6 Z5
8	20	6	60	3	1	21101706	ZYA 0820/6 Z3
				3 PLUS	1	21101726	ZYA 0820/6 Z3 PLUS
				4	1	21101746	ZYA 0820/6 Z4
				5	1	21101756	ZYA 0820/6 Z5
10	13	6	53	3 PLUS	1	21101826	ZYA 1013/6 Z3 PLUS
				4	1	21101846	ZYA 1013/6 Z4
				5	1	21101856	ZYA 1013/6 Z5
	20	6	60	1	1	21102116	ZYA 1020/6 Z1
				3	1	21102106	ZYA 1020/6 Z3
				3 PLUS	1	21102126	ZYA 1020/6 Z3 PLUS
				3 PLUS HC-FEP	1	21102124	ZYA 1020/6 Z3 PLUS HC-FEP

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TC burrs for universal applications

For fine and coarse stock removal



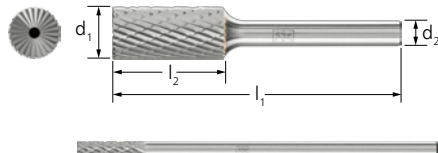
d ₁ [mm]	l ₂ [mm]	d ₂ [mm]	l ₁ [mm]	Cut		Item no.	Designation
10	20	6	60	4	1	21102146	ZYA 1020/6 Z4
				5	1	21102156	ZYA 1020/6 Z5
	25	6	65	3 PLUS	1	21102226	ZYA 1025/6 Z3 PLUS
				4	1	21102246	ZYA 1025/6 Z4
12	25	6	65	1	1	21101916	ZYA 1225/6 Z1
				3	1	21101906	ZYA 1225/6 Z3
				3 PLUS	1	21101926	ZYA 1225/6 Z3 PLUS
				3 PLUS HC-FEP	1	21101924	ZYA 1225/6 Z3 PLUS HC-FEP
				4	1	21101946	ZYA 1225/6 Z4
				5	1	21101956	ZYA 1225/6 Z5
				3	1	21102006	ZYA 1625/6 Z3
16	25	6	65	3 PLUS	1	21102026	ZYA 1625/6 Z3 PLUS
				4	1	21102046	ZYA 1625/6 Z4
				3 PLUS	1	21101928	ZYA 1225/8 Z3 PLUS
16	25	8	65	3 PLUS	1	21102028	ZYA 1625/8 Z3 PLUS

Small tungsten carbide burrs with long shank, shank length SL (long steel shank)/total length GL (solid carbide)

3	13	3	75	3 PLUS	1	21201287	ZYA 0313/3 Z3 PLUS GL 75
				5	1	21201257	ZYA 0313/3 Z5 GL 75
6	13	3	88	3 PLUS	1	21201487	ZYA 0613/3 Z3 PLUS SL 75
				5	1	21201457	ZYA 0613/3 Z5 SL 75

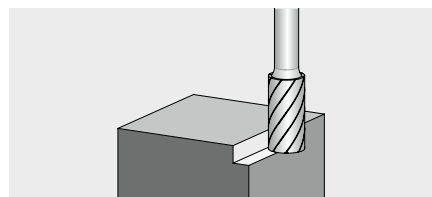
Tungsten carbide burrs with long shanks, shank length SL (long steel shank)

6	16	6	172	3 PLUS	1	21101627	ZYA 0616/6 Z3 PLUS SL 150
8	20	6	170	3 PLUS	1	21101727	ZYA 0820/6 Z3 PLUS SL 150
10	20	6	170	3 PLUS	1	21102127	ZYA 1020/6 Z3 PLUS SL 150
12	25	6	175	3 PLUS	1	21101927	ZYA 1225/6 Z3 PLUS SL 150



Cylindrical shape ZYAS with end cut

Cylindrical burr according to DIN 8032 with circumferential and end cut conforming to DIN 8033 for general use on all materials. A good stock removal rate is achieved through optimum matching of tungsten carbide, geometry, cut and available coating.



Special features:

- Long tool life and high surface quality.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.
- Also available with the high-quality HICOAT coating for a much higher stock removal rate.

d ₁ [mm]	l ₂ [mm]	d ₂ [mm]	l ₁ [mm]	Cut		Item no.	Designation
3	13	3	43	3 PLUS HC-FEP	1	21200285	ZYAS 0313/3 Z3 PLUS HC-FEP
				5 HC-FEP	1	21200254	ZYAS 0313/3 Z5 HC-FEP
6	7	3	37	3 PLUS HC-FEP	1	21200384	ZYAS 0607/3 Z3 PLUS HC-FEP
				3 PLUS HC-FEP	1	21200485	ZYAS 0613/3 Z3 PLUS HC-FEP
				5 HC-FEP	1	21200454	ZYAS 0613/3 Z5 HC-FEP
2	10	3	40	3 PLUS	1	21200183	ZYAS 0210/3 Z3 PLUS
				4	1	21200143	ZYAS 0210/3 Z4
				5	1	21200153	ZYAS 0210/3 Z5
3	13	3	43	3 PLUS	1	21200283	ZYAS 0313/3 Z3 PLUS
				4	1	21200243	ZYAS 0313/3 Z4
				5	1	21200253	ZYAS 0313/3 Z5

Continued on next page

TC burrs for universal applications

For fine and coarse stock removal



2



d ₁ [mm]	l ₂ [mm]	d ₂ [mm]	l ₁ [mm]	Cut		Item no.	Designation
6	7	3	37	3 PLUS	1	21200383	ZYAS 0607/3 Z3 PLUS
				5	1	21200353	ZYAS 0607/3 Z5
	13	3	43	3 PLUS	1	21200483	ZYAS 0613/3 Z3 PLUS
				4	1	21200443	ZYAS 0613/3 Z4
				5	1	21200453	ZYAS 0613/3 Z5

Tungsten carbide burrs

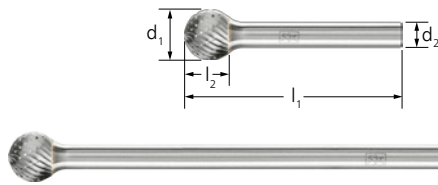
6	16	6	55	3 HC-FEP	1	21100207	ZYAS 0616/6 Z3 HC-FEP
				5 HC-FEP	1	21100257	ZYAS 0616/6 Z5 HC-FEP
10	20	6	60	3 HC-FEP	1	21100707	ZYAS 1020/6 Z3 HC-FEP
				5 HC-FEP	1	21100757	ZYAS 1020/6 Z5 HC-FEP
12	25	6	65	3 HC-FEP	1	21100507	ZYAS 1225/6 Z3 HC-FEP
				5 HC-FEP	1	21100557	ZYAS 1225/6 Z5 HC-FEP
4	13	6	55	3 PLUS	1	21100126	ZYAS 0413/6 Z3 PLUS
				4	1	21100146	ZYAS 0413/6 Z4
				5	1	21100156	ZYAS 0413/6 Z5
6	16	6	55	3	1	21100206	ZYAS 0616/6 Z3
				3 PLUS	1	21100226	ZYAS 0616/6 Z3 PLUS
				4	1	21100246	ZYAS 0616/6 Z4
				5	1	21100256	ZYAS 0616/6 Z5
8	20	6	60	3	1	21100306	ZYAS 0820/6 Z3
				3 PLUS	1	21100326	ZYAS 0820/6 Z3 PLUS
				4	1	21100346	ZYAS 0820/6 Z4
				5	1	21100356	ZYAS 0820/6 Z5
10	13	6	53	3 PLUS	1	21100426	ZYAS 1013/6 Z3 PLUS
				3	1	21100706	ZYAS 1020/6 Z3
				3 PLUS	1	21100726	ZYAS 1020/6 Z3 PLUS
				4	1	21100746	ZYAS 1020/6 Z4
	20	6	60	5	1	21100756	ZYAS 1020/6 Z5
				3 PLUS	1	21100826	ZYAS 1025/6 Z3 PLUS
				4	1	21100846	ZYAS 1025/6 Z4
12	25	6	65	3	1	21100506	ZYAS 1225/6 Z3
				3 PLUS	1	21100526	ZYAS 1225/6 Z3 PLUS
				4	1	21100546	ZYAS 1225/6 Z4
				5	1	21100556	ZYAS 1225/6 Z5
16	25	6	65	3	1	21100606	ZYAS 1625/6 Z3
				3 PLUS	1	21100626	ZYAS 1625/6 Z3 PLUS
				4	1	21100646	ZYAS 1625/6 Z4
				5	1	21100656	ZYAS 1625/6 Z5
12	25	8	65	3 PLUS	1	21100528	ZYAS 1225/8 Z3 PLUS

Small tungsten carbide burrs with long shank, total length GL (solid carbide)

3	13	3	75	3 PLUS	1	21200287	ZYAS 0313/3 Z3 PLUS GL 75
				5	1	21200257	ZYAS 0313/3 Z5 GL 75

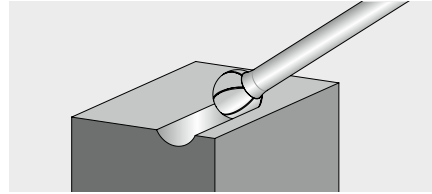
TC burrs for universal applications

For fine and coarse stock removal



Ball shape KUD

Ball-shaped burr according to DIN 8032 with cut conforming to DIN 8033 for general use on all materials. A good stock removal rate is achieved through optimum matching of tungsten carbide, geometry, cut and available coating.



Special features:

- Long tool life and high surface quality.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.
- Also available with the high-quality HICOAT coating for a much higher stock removal rate.



d ₁ [mm]	l ₂ [mm]	d ₂ [mm]	l ₁ [mm]	Cut		Item no.	Designation
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Small tungsten carbide burrs

3	2	3	33	3 PLUS HC-FEP	1	21211085	KUD 0302/3 Z3 PLUS HC-FEP
				5 HC-FEP	1	21211054	KUD 0302/3 Z5 HC-FEP
4	3	3	45	3 PLUS HC-FEP	1	21212585	KUD 0403/3 Z3 PLUS HC-FEP
				5 HC-FEP	1	21212554	KUD 0403/3 Z5 HC-FEP
6	5	3	35	3 PLUS HC-FEP	1	21213085	KUD 0605/3 Z3 PLUS HC-FEP
				5 HC-FEP	1	21213054	KUD 0605/3 Z5 HC-FEP
1.5	1	3	33	3 PLUS	1	21211013	KUD 01,51/3 Z3 PLUS
				5	1	21211015	KUD 01,51/3 Z5
2	1.5	3	33	3 PLUS	1	21211023	KUD 021,5/3 Z3 PLUS
				5	1	21211025	KUD 021,5/3 Z5
3	2	3	33	3 PLUS	1	21211083	KUD 0302/3 Z3 PLUS
				4	1	21211043	KUD 0302/3 Z4
				5	1	21211053	KUD 0302/3 Z5
4	3	3	34	3 PLUS	1	21212583	KUD 0403/3 Z3 PLUS
				4	1	21212543	KUD 0403/3 Z4
				5	1	21212553	KUD 0403/3 Z5
6	5	3	35	3 PLUS	1	21213083	KUD 0605/3 Z3 PLUS
				4	1	21213043	KUD 0605/3 Z4
				5	1	21213053	KUD 0605/3 Z5

Tungsten carbide burrs

6	5	6	45	3 HC-FEP	1	21112537	KUD 0605/6 Z3 HC-FEP
				5 HC-FEP	1	21112557	KUD 0605/6 Z5 HC-FEP
10	9	6	49	3 HC-FEP	1	21112707	KUD 1009/6 Z3 HC-FEP
				5 HC-FEP	1	21112757	KUD 1009/6 Z5 HC-FEP
12	10	6	51	3 HC-FEP	1	21112807	KUD 1210/6 Z3 HC-FEP
				5 HC-FEP	1	21112857	KUD 1210/6 Z5 HC-FEP
16	14	6	54	3 HC-FEP	1	21112907	KUD 1614/6 Z3 HC-FEP
				5 HC-FEP	1	21112957	KUD 1614/6 Z5 HC-FEP
4	3	6	45	3 PLUS	1	21112026	KUD 0403/6 Z3 PLUS
				5	1	21112056	KUD 0403/6 Z5
6	5	6	45	1	1	21112516	KUD 0605/6 Z1
				3	1	21112536	KUD 0605/6 Z3
				3 PLUS	1	21112526	KUD 0605/6 Z3 PLUS
				3 PLUS HC-FEP	1	21112524	KUD 0605/6 Z3 PLUS HC-FEP
				4	1	21112546	KUD 0605/6 Z4
				5	1	21112556	KUD 0605/6 Z5
8	7	6	47	1	1	21112616	KUD 0807/6 Z1
				3	1	21112636	KUD 0807/6 Z3
				3 PLUS	1	21112626	KUD 0807/6 Z3 PLUS
				4	1	21112646	KUD 0807/6 Z4

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TC burrs for universal applications

For fine and coarse stock removal



2



d ₁ [mm]	l ₂ [mm]	d ₂ [mm]	l ₁ [mm]	Cut		Item no.	Designation
8	7	6	47	5	1	21112656	KUD 0807/6 Z5
10	9	6	49	1	1	21112716	KUD 1009/6 Z1
				3	1	21112706	KUD 1009/6 Z3
				3 PLUS	1	21112726	KUD 1009/6 Z3 PLUS
				3 PLUS HC-FEP	1	21112724	KUD 1009/6 Z3 PLUS HC-FEP
				4	1	21112746	KUD 1009/6 Z4
				5	1	21112756	KUD 1009/6 Z5
12	10	6	51	3	1	21112806	KUD 1210/6 Z3
				3 PLUS	1	21112826	KUD 1210/6 Z3 PLUS
				3 PLUS HC-FEP	1	21112824	KUD 1210/6 Z3 PLUS HC-FEP
				4	1	21112846	KUD 1210/6 Z4
				5	1	21112856	KUD 1210/6 Z5
16	14	6	54	1	1	21112916	KUD 1614/6 Z1
				3 PLUS	1	21112926	KUD 1614/6 Z3 PLUS
				4	1	21112946	KUD 1614/6 Z4
				5	1	21112956	KUD 1614/6 Z5
20	18	6	58	3	1	21113006	KUD 2018/6 Z3
				3 PLUS	1	21113026	KUD 2018/6 Z3 PLUS
12	10	8	51	3 PLUS	1	21112828	KUD 1210/8 Z3 PLUS
16	14	8	54	3 PLUS	1	21112928	KUD 1614/8 Z3 PLUS
20	18	8	58	3 PLUS	1	21113028	KUD 2018/8 Z3 PLUS

Small tungsten carbide burrs with long shank, shank length SL (long steel shank)/total length GL (solid carbide)

3	2	3	75	3 PLUS	1	21211087	KUD 0302/3 Z3 PLUS GL 75
				5	1	21211057	KUD 0302/3 Z5 GL 75
6	5	3	80	3 PLUS	1	21213087	KUD 0605/3 Z3 PLUS SL 75
				5	1	21213057	KUD 0605/3 Z5 SL 75

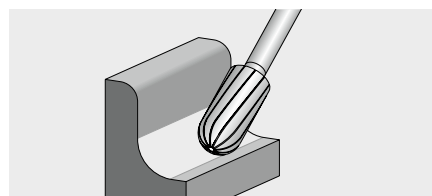
Tungsten carbide burrs with long shanks, shank length SL (long steel shank)

6	5	6	155	3 PLUS	1	21112527	KUD 0605/6 Z3 PLUS SL 150
8	7	6	157	3 PLUS	1	21112627	KUD 0807/6 Z3 PLUS SL 150
10	9	6	159	3 PLUS	1	21112727	KUD 1009/6 Z3 PLUS SL 150
12	10	6	160	3 PLUS	1	21112827	KUD 1210/6 Z3 PLUS SL 150



Cylindrical shape with radius end WRC

Cylindrical burr with radius end according to DIN 8032 with cut conforming to DIN 8033 for general use on all materials. A good stock removal rate is achieved through optimum matching of tungsten carbide, geometry, cut and available coating.



Special features:

- Long tool life and high surface quality.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.
- Also available with the high-quality HICOAT coating for a much higher stock removal rate.

d ₁ [mm]	l ₂ [mm]	d ₂ [mm]	l ₁ [mm]	Cut		Item no.	Designation
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Small tungsten carbide burrs

3	13	3	43	3 PLUS HC-FEP	1	21205185	WRC 0313/3 Z3 PLUS HC-FEP
				5 HC-FEP	1	21205154	WRC 0313/3 Z5 HC-FEP
6	13	3	43	3 PLUS HC-FEP	1	21205285	WRC 0613/3 Z3 PLUS HC-FEP
				5 HC-FEP	1	21205254	WRC 0613/3 Z5 HC-FEP
2	10	3	40	3 PLUS	1	21205083	WRC 0210/3 Z3 PLUS

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TC burrs for universal applications

For fine and coarse stock removal



d ₁ [mm]	l ₂ [mm]	d ₂ [mm]	l ₁ [mm]	Cut		Item no.	Designation
2	10	3	40	4	1	21205043	WRC 0210/3 Z4
				5	1	21205053	WRC 0210/3 Z5
3	13	3	43	3 PLUS	1	21205183	WRC 0313/3 Z3 PLUS
				4	1	21205143	WRC 0313/3 Z4
				5	1	21205153	WRC 0313/3 Z5
6	13	3	43	3 PLUS	1	21205283	WRC 0613/3 Z3 PLUS
				4	1	21205243	WRC 0613/3 Z4
				5	1	21205253	WRC 0613/3 Z5

Tungsten carbide burrs

6	16	6	55	3 HC-FEP	1	21105007	WRC 0616/6 Z3 HC-FEP
				5 HC-FEP	1	21105057	WRC 0616/6 Z5 HC-FEP
10	20	6	60	3 HC-FEP	1	21105207	WRC 1020/6 Z3 HC-FEP
				5 HC-FEP	1	21105257	WRC 1020/6 Z5 HC-FEP
12	25	6	65	3 HC-FEP	1	21105307	WRC 1225/6 Z3 HC-FEP
				5 HC-FEP	1	21105357	WRC 1225/6 Z5 HC-FEP
4	13	6	55	3 PLUS	1	21104926	WRC 0413/6 Z3 PLUS
				4	1	21104946	WRC 0413/6 Z4
6	16	6	55	1	1	21105016	WRC 0616/6 Z1
				3	1	21105006	WRC 0616/6 Z3
				3 PLUS	1	21105026	WRC 0616/6 Z3 PLUS
				3 PLUS HC-FEP	1	21105024	WRC 0616/6 Z3 PLUS HC-FEP
				4	1	21105046	WRC 0616/6 Z4
				5	1	21105056	WRC 0616/6 Z5
8	20	6	60	1	1	21105116	WRC 0820/6 Z1
				3	1	21105106	WRC 0820/6 Z3
				3 PLUS	1	21105126	WRC 0820/6 Z3 PLUS
				4	1	21105146	WRC 0820/6 Z4
				5	1	21105156	WRC 0820/6 Z5
10	20	6	60	1	1	21105216	WRC 1020/6 Z1
				3	1	21105206	WRC 1020/6 Z3
				3 PLUS	1	21105226	WRC 1020/6 Z3 PLUS
				3 PLUS HC-FEP	1	21105224	WRC 1020/6 Z3 PLUS HC-FEP
				4	1	21105246	WRC 1020/6 Z4
				5	1	21105256	WRC 1020/6 Z5
	25	6	65	3	1	21105506	WRC 1025/6 Z3
				3 PLUS	1	21105526	WRC 1025/6 Z3 PLUS
				4	1	21105546	WRC 1025/6 Z4
12	25	6	65	1	1	21105316	WRC 1225/6 Z1
				3	1	21105306	WRC 1225/6 Z3
				3 PLUS	1	21105326	WRC 1225/6 Z3 PLUS
				3 PLUS HC-FEP	1	21105324	WRC 1225/6 Z3 PLUS HC-FEP
				4	1	21105346	WRC 1225/6 Z4
				5	1	21105356	WRC 1225/6 Z5
16	25	6	65	1	1	21105416	WRC 1625/6 Z1
				3	1	21105406	WRC 1625/6 Z3
				3 PLUS	1	21105426	WRC 1625/6 Z3 PLUS
				4	1	21105446	WRC 1625/6 Z4
10	20	8	60	3 PLUS	1	21105228	WRC 1020/8 Z3 PLUS
12	25	8	65	3 PLUS	1	21105328	WRC 1225/8 Z3 PLUS
16	25	8	65	3 PLUS	1	21105428	WRC 1625/8 Z3 PLUS

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TC burrs for universal applications

For fine and coarse stock removal



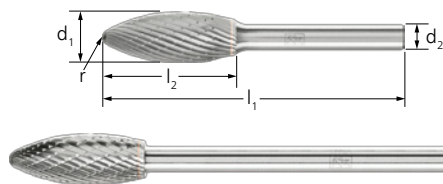
d ₁ [mm]	l ₂ [mm]	d ₂ [mm]	l ₁ [mm]	Cut		Item no.	Designation
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Small tungsten carbide burrs with long shank, shank length SL (long steel shank)/total length GL (solid carbide)

3	13	3	75	3 PLUS	1	21205187	WRC 0313/3 Z3 PLUS GL 75
				5	1	21205157	WRC 0313/3 Z5 GL 75
6	13	3	88	3 PLUS	1	21205287	WRC 0613/3 Z3 PLUS SL 75
				5	1	21205257	WRC 0613/3 Z5 SL 75

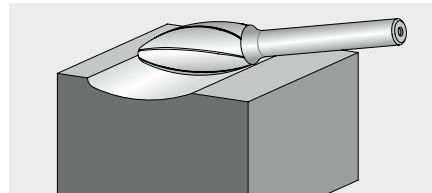
Tungsten carbide burrs with long shanks, shank length SL (long steel shank)

6	16	6	172	3 PLUS	1	21105027	WRC 0616/6 Z3 PLUS SL 150
8	20	6	170	3 PLUS	1	21105127	WRC 0820/6 Z3 PLUS SL 150
10	20	6	170	3 PLUS	1	21105227	WRC 1020/6 Z3 PLUS SL 150
12	25	6	175	3 PLUS	1	21105327	WRC 1225/6 Z3 PLUS SL 150



Flame-shaped B

Flame-shaped burr according to ISO 7755/8 with cut conforming to DIN 8033 for general use on all materials. A good stock removal rate is achieved through optimum matching of tungsten carbide, geometry, cut and available coating.



Special features:

- Long tool life and high surface quality.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.
- Also available with the high-quality HICOAT coating for a much higher stock removal rate.

d ₁ [mm]	l ₂ [mm]	d ₂ [mm]	l ₁ [mm]	r [mm]	Cut		Item no.	Designation
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Small tungsten carbide burrs

3	7	3	37	0.8	3 PLUS HC-FEP	1	21202534	B 0307/3 Z3 PLUS HC-FEP
					5 HC-FEP	1	21202554	B 0307/3 Z5 HC-FEP
6	13	3	43	1	3 PLUS HC-FEP	1	21203634	B 0613/3 Z3 PLUS HC-FEP
					5 HC-FEP	1	21203654	B 0613/3 Z5 HC-FEP
3	7	3	37	0.8	3 PLUS	1	21202533	B 0307/3 Z3 PLUS
					5	1	21202553	B 0307/3 Z5
6	13	3	43	1	3 PLUS	1	21203633	B 0613/3 Z3 PLUS
					5	1	21203653	B 0613/3 Z5

Tungsten carbide burrs

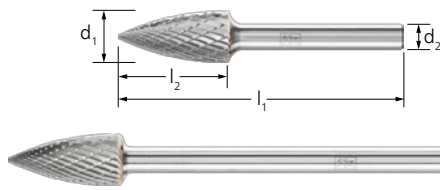
8	20	6	60	1.5	3	1	21103106	B 0820/6 Z3
					3 PLUS	1	21103126	B 0820/6 Z3 PLUS
10	25	6	65	1.7	3 PLUS	1	21103226	B 1025/6 Z3 PLUS
					3 PLUS HC-FEP	1	21103224	B 1025/6 Z3 PLUS HC-FEP
12	30	6	70	2.1	3	1	21103306	B 1230/6 Z3
					3 HC-FEP	1	21103307	B 1230/6 Z3 HC-FEP
					3 PLUS	1	21103326	B 1230/6 Z3 PLUS
					3 PLUS HC-FEP	1	21103324	B 1230/6 Z3 PLUS HC-FEP
16	35	6	75	2.6	3 PLUS	1	21103426	B 1635/6 Z3 PLUS

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

8	20	6	170	1.5	3 PLUS	1	21103127	B 0820/6 Z3 PLUS SL 150
10	25	6	175	1.7	3 PLUS	1	21103287	B 1025/6 Z3 PLUS SL 150
12	30	6	180	2.1	3 PLUS	1	21103327	B 1230/6 Z3 PLUS SL 150

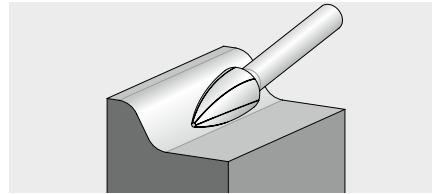
TC burrs for universal applications

For fine and coarse stock removal



Pointed tree shape SPG Z5 HC-FEP

Pointed tree-shaped burr according to DIN 8032 with cut conforming to DIN 8033 and flattened tip for general use on all materials. A good stock removal rate is achieved through optimum matching of tungsten carbide, geometry, cut and available coating.



Special features:

- Long tool life and high surface quality.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.
- Also available with the high-quality HICOAT coating for a much higher stock removal rate.

d ₁ [mm]	l ₂ [mm]	d ₂ [mm]	l ₁ [mm]	Cut		Item no.	Designation
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Small tungsten carbide burrs

3	7	3	37	3 PLUS HC-FEP	1	21222585	SPG 0307/3 Z3 PLUS HC-FEP
				5 HC-FEP	1	21222554	SPG 0307/3 Z5 HC-FEP
	13	3	43	3 PLUS HC-FEP	1	21222685	SPG 0313/3 Z3 PLUS HC-FEP
				5 HC-FEP	1	21222654	SPG 0313/3 Z5 HC-FEP
6	13	3	43	3 PLUS HC-FEP	1	21222785	SPG 0613/3 Z3 PLUS HC-FEP
				5 HC-FEP	1	21222754	SPG 0613/3 Z5 HC-FEP
3	7	3	37	3 PLUS	1	21222583	SPG 0307/3 Z3 PLUS
				4	1	21222543	SPG 0307/3 Z4
				5	1	21222553	SPG 0307/3 Z5
	13	3	43	3 PLUS	1	21222683	SPG 0313/3 Z3 PLUS
				4	1	21222643	SPG 0313/3 Z4
6	13	3	43	5	1	21222653	SPG 0313/3 Z5
				3 PLUS	1	21222783	SPG 0613/3 Z3 PLUS
				4	1	21222743	SPG 0613/3 Z4
				5	1	21222753	SPG 0613/3 Z5

Tungsten carbide burrs

6	18	6	55	3 HC-FEP	1	21122507	SPG 0618/6 Z3 HC-FEP
				5 HC-FEP	1	21122557	SPG 0618/6 Z5 HC-FEP
10	20	6	60	3 HC-FEP	1	21122607	SPG 1020/6 Z3 HC-FEP
				5 HC-FEP	1	21122657	SPG 1020/6 Z5 HC-FEP
12	25	6	65	3 HC-FEP	1	21122707	SPG 1225/6 Z3 HC-FEP
				5 HC-FEP	1	21122757	SPG 1225/6 Z5 HC-FEP
6	18	6	55	1	1	21122516	SPG 0618/6 Z1
				3	1	21122506	SPG 0618/6 Z3
				3 PLUS	1	21122526	SPG 0618/6 Z3 PLUS
				3 PLUS HC-FEP	1	21122524	SPG 0618/6 Z3 PLUS HC-FEP
				4	1	21122546	SPG 0618/6 Z4
				5	1	21122556	SPG 0618/6 Z5
8	20	6	60	3 PLUS	1	21122589	SPG 0820/6 Z3 PLUS
				5	1	21122595	SPG 0820/6 Z5
10	20	6	60	1	1	21122616	SPG 1020/6 Z1
				3	1	21122606	SPG 1020/6 Z3
				3 PLUS	1	21122626	SPG 1020/6 Z3 PLUS
				3 PLUS HC-FEP	1	21122624	SPG 1020/6 Z3 PLUS HC-FEP
				4	1	21122646	SPG 1020/6 Z4
				5	1	21122656	SPG 1020/6 Z5
12	25	6	65	1	1	21122716	SPG 1225/6 Z1
				3	1	21122706	SPG 1225/6 Z3
				3 PLUS	1	21122726	SPG 1225/6 Z3 PLUS

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TC burrs for universal applications

For fine and coarse stock removal



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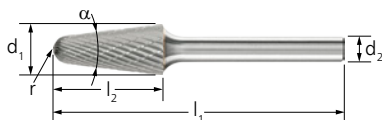
d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	Cut		Item no.	Designation
12	25	6	65	3 PLUS HC-FEP	1	21122724	SPG 1225/6 Z3 PLUS HC-FEP
				4	1	21122746	SPG 1225/6 Z4
				5	1	21122756	SPG 1225/6 Z5
	30	6	70	1	1	21123416	SPG 1230/6 Z1
				3	1	21123406	SPG 1230/6 Z3
				3 PLUS	1	21123426	SPG 1230/6 Z3 PLUS
				4	1	21123446	SPG 1230/6 Z4
				5	1	21123456	SPG 1230/6 Z5
16	30	6	70	1	1	21122816	SPG 1630/6 Z1
				3	1	21122806	SPG 1630/6 Z3
				3 PLUS	1	21122826	SPG 1630/6 Z3 PLUS
				4	1	21122846	SPG 1630/6 Z4
10	20	8	60	3 PLUS	1	21122628	SPG 1020/8 Z3 PLUS
12	25	8	65	3 PLUS	1	21122728	SPG 1225/8 Z3 PLUS
16	30	8	70	1	1	21122818	SPG 1630/8 Z1
				3 PLUS	1	21122828	SPG 1630/8 Z3 PLUS

Small tungsten carbide burrs with long shank, shank length SL (long steel shank)/total length GL (solid carbide)

3	13	3	75	3 PLUS	1	21222687	SPG 0313/3 Z3 PLUS GL 75
				5	1	21222657	SPG 0313/3 Z5 GL 75
6	13	3	88	3 PLUS	1	21222787	SPG 0613/3 Z3 PLUS SL 75
				5	1	21222757	SPG 0613/3 Z5 SL 75

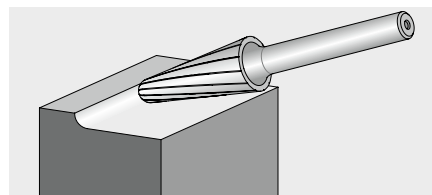
Tungsten carbide burrs with long shanks, shank length SL (long steel shank)

6	18	6	172	3 PLUS	1	21122527	SPG 0618/6 Z3 PLUS SL 150
8	20	6	170	3 PLUS	1	21122597	SPG 0820/6 Z3 PLUS SL 150
10	20	6	170	3 PLUS	1	21122627	SPG 1020/6 Z3 PLUS SL 150
12	25	6	175	3 PLUS	1	21122727	SPG 1225/6 Z3 PLUS SL 150



Conical shape with radius end KEL

Conical burr with round radius end according to DIN 8032 and cut conforming to DIN 8033 for general use on all materials. A good stock removal rate is achieved through optimum matching of tungsten carbide, geometry, cut and available coating.



Special features:

- Long tool life and high surface quality.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.
- Also available with the high-quality HICOAT coating for a much higher stock removal rate.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	α [°]	r [mm]	Cut		Item no.	Designation
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Tungsten carbide burrs

10	20	6	60	14	2.9	3 HC-FEP	1	21125007	KEL 1020/6 Z3 HC-FEP
12	30	6	70	14	2.6	3 HC-FEP	1	21125207	KEL 1230/6 Z3 HC-FEP
						5 HC-FEP	1	21125257	KEL 1230/6 Z5 HC-FEP
8	20	6	60	16	1.25	3 PLUS	1	21124996	KEL 0820/6 Z3 PLUS
						4	1	21124994	KEL 0820/6 Z4
10	20	6	60	14	2.9	3	1	21125006	KEL 1020/6 Z3
						3 PLUS	1	21125026	KEL 1020/6 Z3 PLUS
						3 PLUS HC-FEP	1	21125024	KEL 1020/6 Z3 PLUS HC-FEP
						4	1	21125046	KEL 1020/6 Z4
12	25	6	65	14	3.3	3	1	21125106	KEL 1225/6 Z3

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TC burrs for universal applications

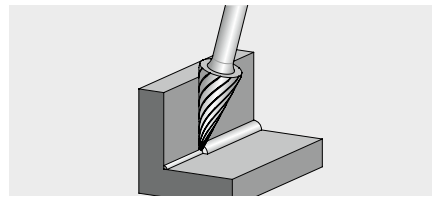
For fine and coarse stock removal

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	α [°]	r [mm]	Cut		Item no.	Designation
12	25	6	65	14	3.3	3 PLUS	1	21125126	KEL 1225/6 Z3 PLUS
						3 PLUS HC-FEP	1	21125124	KEL 1225/6 Z3 PLUS HC-FEP
						4	1	21125146	KEL 1225/6 Z4
	30	6	70	14	2.6	1	1	21125216	KEL 1230/6 Z1
						3	1	21125206	KEL 1230/6 Z3
						3 PLUS	1	21125226	KEL 1230/6 Z3 PLUS
						3 PLUS HC-FEP	1	21125224	KEL 1230/6 Z3 PLUS HC-FEP
						4	1	21125246	KEL 1230/6 Z4
						5	1	21125256	KEL 1230/6 Z5
						3 PLUS	1	21125326	KEL 1630/6 Z3 PLUS
						4	1	21125346	KEL 1630/6 Z4
12	25	8	65	14	3.3	3 PLUS	1	21125128	KEL 1225/8 Z3 PLUS
	30	8	70	14	2.6	3 PLUS	1	21125228	KEL 1230/8 Z3 PLUS



Conical pointed shape SKM

Conical pointed burr according to DIN 8032 with cut conforming to DIN 8033 and flattened tip for general use on all materials. A good stock removal rate is achieved through optimum matching of tungsten carbide, geometry, cut and available coating.



Special features:

- Long tool life and high surface quality.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.
- Also available with the high-quality HICOAT coating for a much higher stock removal rate.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	α [°]	Cut		Item no.	Designation
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Small tungsten carbide burrs

3	7	3	37	14	3 PLUS HC-FEP	1	21214084	SKM 0307/3 Z3 PLUS HC-FEP
					5 HC-FEP	1	21214054	SKM 0307/3 Z5 HC-FEP
	11	3	41	14	3 PLUS HC-FEP	1	21214184	SKM 0311/3 Z3 PLUS HC-FEP
					5 HC-FEP	1	21214154	SKM 0311/3 Z5 HC-FEP
6	13	3	43	25	3 PLUS HC-FEP	1	21215084	SKM 0613/3 Z3 PLUS HC-FEP
					5 HC-FEP	1	21215054	SKM 0613/3 Z5 HC-FEP
3	7	3	37	21	3 PLUS	1	21214083	SKM 0307/3 Z3 PLUS
					5	1	21214053	SKM 0307/3 Z5
	11	3	41	14	3 PLUS	1	21214183	SKM 0311/3 Z3 PLUS
					4	1	21214143	SKM 0311/3 Z4
					5	1	21214153	SKM 0311/3 Z5
					3 PLUS	1	21215083	SKM 0613/3 Z3 PLUS
6	13	3	43	25	5	1	21215053	SKM 0613/3 Z5

Tungsten carbide burrs

6	18	6	55	18	3 HC-FEP	1	21115007	SKM 0618/6 Z3 HC-FEP
					5 HC-FEP	1	21115057	SKM 0618/6 Z5 HC-FEP
10	20	6	60	28	3 HC-FEP	1	21115107	SKM 1020/6 Z3 HC-FEP
					5 HC-FEP	1	21115157	SKM 1020/6 Z5 HC-FEP
12	25	6	65	26	3 HC-FEP	1	21115207	SKM 1225/6 Z3 HC-FEP
					5 HC-FEP	1	21115257	SKM 1225/6 Z5 HC-FEP
6	18	6	55	18	1	1	21115016	SKM 0618/6 Z1
					3	1	21115006	SKM 0618/6 Z3
					3 PLUS	1	21115026	SKM 0618/6 Z3 PLUS

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TC burrs for universal applications

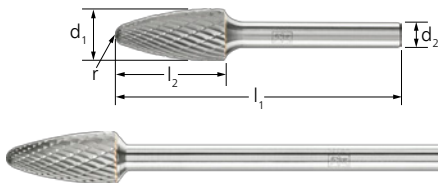
For fine and coarse stock removal



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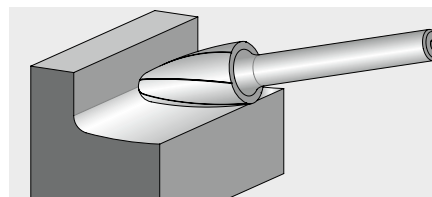


d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	α [°]	Cut		Item no.	Designation
6	18	6	55	18	3 PLUS HC-FEP	1	21115024	SKM 0618/6 Z3 PLUS HC-FEP
					4	1	21115046	SKM 0618/6 Z4
					5	1	21115056	SKM 0618/6 Z5
10	20	6	60	28	3	1	21115106	SKM 1020/6 Z3
					3 PLUS	1	21115126	SKM 1020/6 Z3 PLUS
					3 PLUS HC-FEP	1	21115124	SKM 1020/6 Z3 PLUS HC-FEP
					4	1	21115146	SKM 1020/6 Z4
					5	1	21115156	SKM 1020/6 Z5
12	25	6	65	26	1	1	21115216	SKM 1225/6 Z1
					3	1	21115206	SKM 1225/6 Z3
					3 PLUS	1	21115226	SKM 1225/6 Z3 PLUS
					3 PLUS HC-FEP	1	21115224	SKM 1225/6 Z3 PLUS HC-FEP
					4	1	21115246	SKM 1225/6 Z4
					5	1	21115256	SKM 1225/6 Z5
		8	65	26	3 PLUS	1	21115228	SKM 1225/8 Z3 PLUS



Tree shape with radius end RBF

Tree-shaped burr with radius end according to DIN 8032 with cut conforming to DIN 8033 for general use on all materials. A good stock removal rate is achieved through optimum matching of tungsten carbide, geometry, cut and available coating.



Special features:

- Long tool life and high surface quality.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.
- Also available with the high-quality HICOAT coating for a much higher stock removal rate.

d_1 [mm]	l_2 [mm]	d_2 [mm]	l_1 [mm]	r [mm]	Cut		Item no.	Designation
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Small tungsten carbide burrs

3	7	3	37	0.75	3 PLUS HC-FEP	1	21217584	RBF 0307/3 Z3 PLUS HC-FEP
					5 HC-FEP	1	21217554	RBF 0307/3 Z5 HC-FEP
	13	3	43	0.75	3 PLUS HC-FEP	1	21218134	RBF 0313/3 Z3 PLUS HC-FEP
					5 HC-FEP	1	21218154	RBF 0313/3 Z5 HC-FEP
6	13	3	43	1.5	3 PLUS HC-FEP	1	21230085	RBF 0613/3 Z3 PLUS HC-FEP
					5 HC-FEP	1	21230054	RBF 0613/3 Z5 HC-FEP
3	7	3	37	0.75	3 PLUS	1	21217583	RBF 0307/3 Z3 PLUS
					5	1	21217553	RBF 0307/3 Z5
	13	3	43	0.75	3 PLUS	1	21218133	RBF 0313/3 Z3 PLUS
					5	1	21218155	RBF 0313/3 Z5
6	13	3	43	1.5	3 PLUS	1	21230083	RBF 0613/3 Z3 PLUS
					4	1	21230043	RBF 0613/3 Z4
					5	1	21230053	RBF 0613/3 Z5

Tungsten carbide burrs

6	18	6	55	1.5	3 HC-FEP	1	21117307	RBF 0618/6 Z3 HC-FEP
					5 HC-FEP	1	21117357	RBF 0618/6 Z5 HC-FEP
10	20	6	60	2.5	3 HC-FEP	1	21117707	RBF 1020/6 Z3 HC-FEP
					5 HC-FEP	1	21117757	RBF 1020/6 Z5 HC-FEP
12	25	6	65	2.5	3 HC-FEP	1	21117807	RBF 1225/6 Z3 HC-FEP
					5 HC-FEP	1	21117857	RBF 1225/6 Z5 HC-FEP
6	18	6	55	1.5	3	1	21117306	RBF 0618/6 Z3
					3 PLUS	1	21117326	RBF 0618/6 Z3 PLUS

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TC burrs for universal applications

For fine and coarse stock removal



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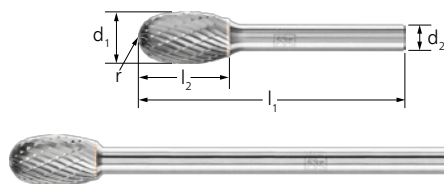
d ₁ [mm]	l ₂ [mm]	d ₂ [mm]	l ₁ [mm]	r [mm]	Cut		Item no.	Designation
6	18	6	55	1.5	3 PLUS HC-FEP	1	21117324	RBF 0618/6 Z3 PLUS HC-FEP
					4	1	21117346	RBF 0618/6 Z4
					5	1	21117356	RBF 0618/6 Z5
8	20	6	60	1.2	3	1	21117606	RBF 0820/6 Z3
					3 PLUS	1	21117626	RBF 0820/6 Z3 PLUS
					4	1	21117646	RBF 0820/6 Z4
10	20	6	60	2.5	3	1	21117706	RBF 1020/6 Z3
					3 PLUS	1	21117726	RBF 1020/6 Z3 PLUS
					3 PLUS HC-FEP	1	21117724	RBF 1020/6 Z3 PLUS HC-FEP
					4	1	21117746	RBF 1020/6 Z4
					5	1	21117756	RBF 1020/6 Z5
12	25	6	65	2.5	1	1	21117816	RBF 1225/6 Z1
					3	1	21117806	RBF 1225/6 Z3
					3 PLUS	1	21117826	RBF 1225/6 Z3 PLUS
					3 PLUS HC-FEP	1	21117824	RBF 1225/6 Z3 PLUS HC-FEP
					4	1	21117846	RBF 1225/6 Z4
16	30	6	70	3.6	5	1	21117856	RBF 1225/6 Z5
					3	1	21117906	RBF 1630/6 Z3
					3 PLUS	1	21117926	RBF 1630/6 Z3 PLUS
					4	1	21117946	RBF 1630/6 Z4
12	25	8	65	2.5	3 PLUS	1	21117828	RBF 1225/8 Z3 PLUS
16	30	8	70	3.6	3 PLUS	1	21117928	RBF 1630/8 Z3 PLUS

Small tungsten carbide burrs with long shank, shank length SL (long steel shank)/total length GL (solid carbide)

3	7	3	75	0.75	3 PLUS	1	21217587	RBF 0307/3 Z3 PLUS GL 75
					5	1	21217557	RBF 0307/3 Z5 GL 75
6	13	3	88	1.5	3 PLUS	1	21230087	RBF 0613/3 Z3 PLUS SL 75
					5	1	21230057	RBF 0613/3 Z5 SL 75

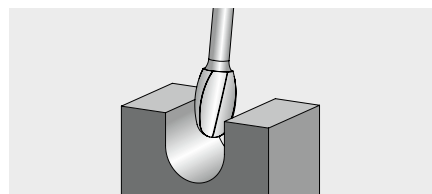
Tungsten carbide burrs with long shanks, shank length SL (long steel shank)

6	18	6	172	1.5	3 PLUS	1	21117327	RBF 0618/6 Z3 PLUS SL 150
8	20	6	170	1.2	3 PLUS	1	21117627	RBF 0820/6 Z3 PLUS SL 150
10	20	6	170	2.5	3 PLUS	1	21117727	RBF 1020/6 Z3 PLUS SL 150
12	25	6	175	2.5	3 PLUS	1	21117827	RBF 1225/6 Z3 PLUS SL 150



Oval shape TRE

Oval burr according to DIN 8032 with cut conforming to DIN 8033 for general use on all materials. A good stock removal rate is achieved through optimum matching of tungsten carbide, geometry, cut and available coating.



Special features:

- Long tool life and high surface quality.
- There is reduced wear on the tool drive due to impact-free work without chatter marks, thanks to the high concentricity.
- Also available with the high-quality HICOAT coating for a much higher stock removal rate.

d ₁ [mm]	l ₂ [mm]	d ₂ [mm]	l ₁ [mm]	r [mm]	Cut		Item no.	Designation
3	7	3	37	1.2	3 PLUS HC-FEP	1	21210084	TRE 0307/3 Z3 PLUS HC-FEP
					5 HC-FEP	1	21210054	TRE 0307/3 Z5 HC-FEP
6	10	3	40	2.8	3 PLUS HC-FEP	1	21235084	TRE 0610/3 Z3 PLUS HC-FEP
					5 HC-FEP	1	21235054	TRE 0610/3 Z5 HC-FEP

Continued on next page

TC burrs for universal applications

For fine and coarse stock removal



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d ₁ [mm]	l ₂ [mm]	d ₂ [mm]	l ₁ [mm]	r [mm]	Cut		Item no.	Designation
12	20	6	60	5	3 HC-FEP	1	21135107	TRE 1220/6 Z3 HC-FEP
3	7	3	37	1.2	3 PLUS	1	21210083	TRE 0307/3 Z3 PLUS
					5	1	21210053	TRE 0307/3 Z5
6	10	3	40	2.8	3 PLUS	1	21235083	TRE 0610/3 Z3 PLUS
					5	1	21235053	TRE 0610/3 Z5

Tungsten carbide burrs

12	20	6	60	5	5 HC-FEP	1	21135157	TRE 1220/6 Z5 HC-FEP
6	10	6	50	2.8	3 PLUS	1	21134826	TRE 0610/6 Z3 PLUS
					3 PLUS HC-FEP	1	21134824	TRE 0610/6 Z3 PLUS HC-FEP
					5	1	21134856	TRE 0610/6 Z5
8	13	6	53	3.7	3 PLUS	1	21135026	TRE 0813/6 Z3 PLUS
					4	1	21135046	TRE 0813/6 Z4
					5	1	21135056	TRE 0813/6 Z5
10	16	6	56	4	3 PLUS	1	21134926	TRE 1016/6 Z3 PLUS
					3 PLUS HC-FEP	1	21134924	TRE 1016/6 Z3 PLUS HC-FEP
					4	1	21134946	TRE 1016/6 Z4
12	20	6	60	5	1	1	21135116	TRE 1220/6 Z1
					3	1	21135106	TRE 1220/6 Z3
					3 PLUS	1	21135126	TRE 1220/6 Z3 PLUS
					3 PLUS HC-FEP	1	21135124	TRE 1220/6 Z3 PLUS HC-FEP
					4	1	21135146	TRE 1220/6 Z4
					5	1	21135156	TRE 1220/6 Z5
16	25	6	65	6.5	1	1	21135216	TRE 1625/6 Z1
					3 PLUS	1	21135226	TRE 1625/6 Z3 PLUS
					4	1	21135246	TRE 1625/6 Z4
12	20	8	60	5	3 PLUS	1	21135128	TRE 1220/8 Z3 PLUS
16	25	8	65	6.5	3 PLUS	1	21135228	TRE 1625/8 Z3 PLUS

Small tungsten carbide burrs with long shank, shank length SL (long steel shank)/total length GL (solid carbide)

3	7	3	75	1.2	3 PLUS	1	21210087	TRE 0307/3 Z3 PLUS GL 75
					5	1	21210057	TRE 0307/3 Z5 GL 75
6	10	3	85	2.8	3 PLUS	1	21235087	TRE 0610/3 Z3 PLUS SL 75
					5	1	21235057	TRE 0610/3 Z5 SL 75

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

6	10	6	160	2.8	3 PLUS	1	21134827	TRE 0610/6 Z3 PLUS SL 150
8	13	6	163	3.7	3 PLUS	1	21135027	TRE 0813/6 Z3 PLUS SL 150
10	16	6	166	4	3 PLUS	1	21134927	TRE 1016/6 Z3 PLUS SL 150
12	20	6	170	5	3 PLUS	1	21135127	TRE 1220/6 Z3 PLUS SL 150