



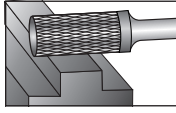


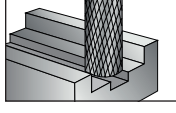

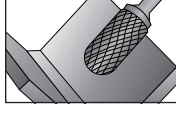

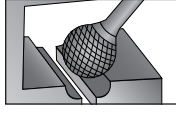
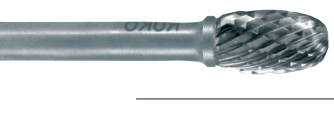
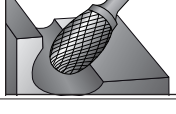

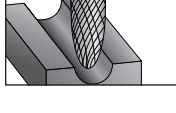

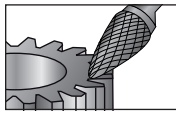
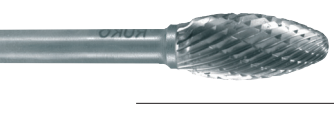
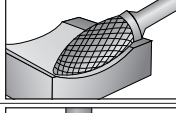

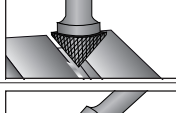

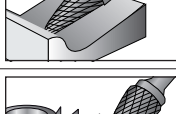
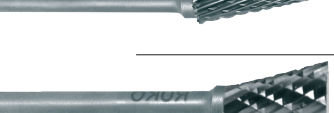
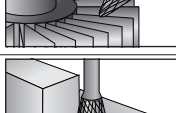

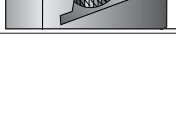
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ROTARY BURRS

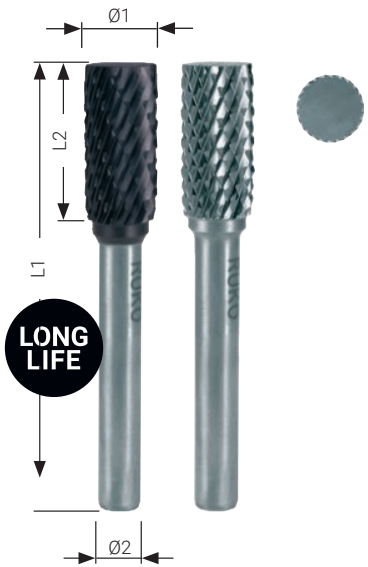
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Type and applications overview

	Tip	Application	Description	Ø mm	Item no.	Page/s
			Shape A cylinder (ZYA) – without end toothing	3,0 – 16,0	116 xxx TC 116 xxx	228
			Shape B cylinder (ZYAS) with end toothing	3,0 – 16,0 6,0 / 12,0	116 xxx TC 116 xxx 116 xxx A	228
			Shape C oval (WRC)	3,0 – 16,0 6,0 / 12,0	116 xxx TC 116 xxx 116 xxx A	229
			Shape D ball type (KUD)	3,0 – 16,0 6,0 / 12,0	116 xxx TC 116 xxx 116 xxx A	229
			Shape E tear drop (TRE)	3,0 – 16,0	116 xxx	230
			Shape F ball nose tree (RBF)	3,0 – 16,0 6,0 / 12,0	116 xxx TC 116 xxx 116 xxx A	230
			Shape G tree (SPG)	3,0 – 16,0 6,0 / 12,0	116 xxx TC 116 xxx 116 xxx A	231
			Shape H flame (FLH)	3,0 – 16,0	116 xxx	231
			Shape K cone 90° (KSK)	3,0 – 16,0	116 xxx	232
			Shape L round cone (KEL)	3,0 – 16,0 6,0 / 10,0 / 12,0	116 xxx 116 xxx A	232
			Shape M cone (SKM)	6,0 – 16 3,0 – 16,0	116 xxx TC 116 xxx	233
			Shape N angle (WKN)	3,0 – 16,0	116 xxx	233



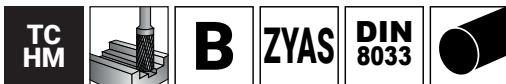
Tungsten carbide rotary burr shape A cylinder (ZYA) – without end tothing



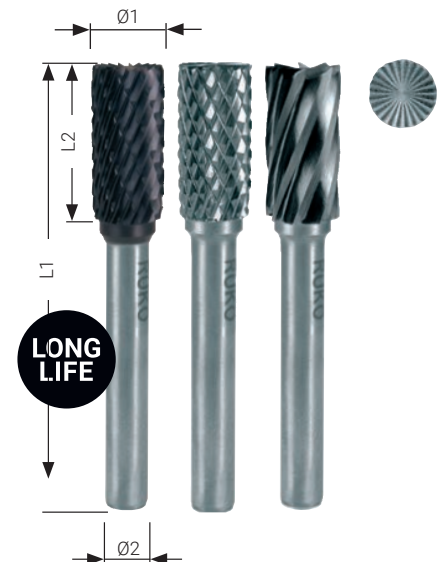
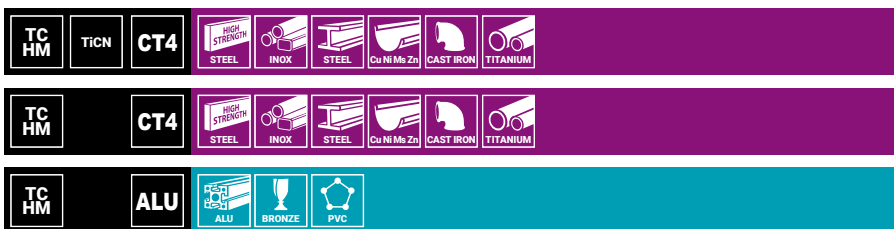
Packaging: plastic tube

Ø mm	L2 mm	L1 mm	L2 mm	TC / HM TiCN, CT 4		TC / HM CT 4	
3.0	14.0	38.0	3.0	—		116 046	1
6.0	18.0	58.0	6.0	116 010 TC	1	116 010	1
8.0	18.0	60.0	6.0	116 011 TC	1	116 011	1
10.0	20.0	60.0	6.0	116 012 TC	1	116 012	1
12.0	25.0	65.0	6.0	116 013 TC	1	116 013	1
16.0	25.0	65.0	6.0	116 014 TC	1	116 014	1

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Tungsten carbide rotary burr shape B cylinder (ZYAS) – with end tothing

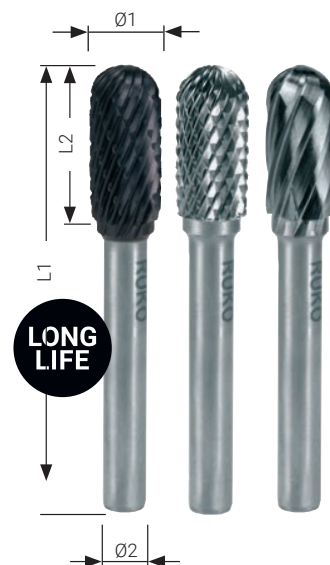
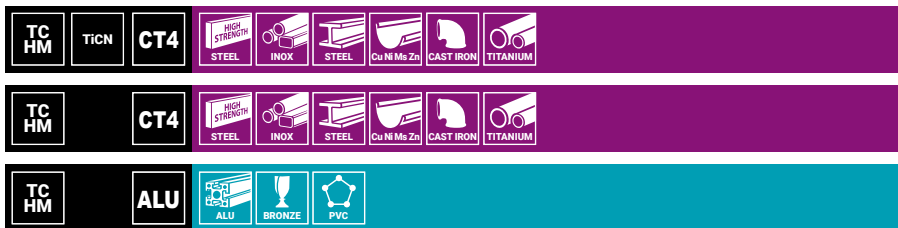


Packaging: plastic tube

Ø mm	L2 mm	L1 mm	L2 mm	TC / HM TiCN, CT 4		TC / HM CT 4		TC / HM ALU	
3.0	14.0	38.0	3.0	—		116 047	1	—	
6.0	18.0	58.0	6.0	116 015 TC	1	116 015	1	116 015 A	1
8.0	18.0	60.0	6.0	116 016 TC	1	116 016	1	—	
10.0	20.0	60.0	6.0	116 017 TC	1	116 017	1	—	
12.0	25.0	65.0	6.0	116 018 TC	1	116 018	1	116 018 A	1
16.0	25.0	65.0	6.0	116 019 TC	1	116 019	1	—	



Tungsten carbide rotary burr shape C oval (WRC)

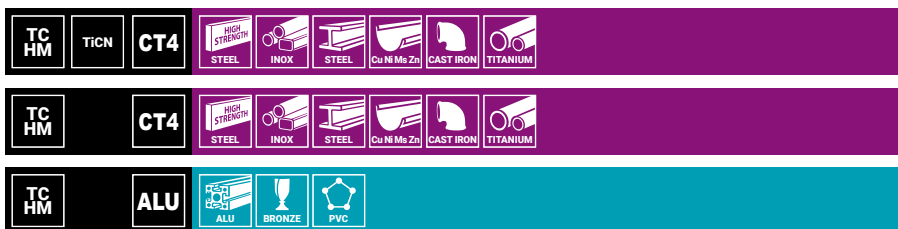


Packaging: plastic tube

Ø mm	L2 mm	L1 mm	L2 mm	TC / HM	📦	TC / HM	📦	TC / HM	📦
				TiCN, CT 4		CT 4		ALU	
3.0	14.0	43.0	3.0	—		116 048	1	—	
6.0	16.0	56.0	6.0	116 020 TC	1	116 020	1	116 020 A	1
8.0	16.0	56.0	6.0	116 021 TC	1	116 021	1	—	
10.0	20.0	60.0	6.0	116 022 TC	1	116 022	1	—	
12.0	25.0	65.0	6.0	116 023 TC	1	116 023	1	116 023 A	1
16.0	25.0	65.0	6.0	116 024 TC	1	116 024	1	—	



Tungsten carbide rotary burr shape D ball type (KUD)



Packaging: plastic tube

Ø mm	L2 mm	L1 mm	L2 mm	TC / HM	📦	TC / HM	📦	TC / HM	📦
				TiCN, CT 4		CT 4		ALU	
3.0	2.7	33.0	3.0	—		116 052	1	—	
6.0	5.4	45.0	6.0	116 041 TC	1	116 041	1	116 041 A	1
8.0	7.2	47.0	6.0	116 042 TC	1	116 042	1	—	
10.0	9.0	49.0	6.0	116 043 TC	1	116 043	1	—	
12.0	11.0	51.0	6.0	116 044 TC	1	116 044	1	116 044 A	1
16.0	14.4	54.0	6.0	116 045 TC	1	116 045	1	—	

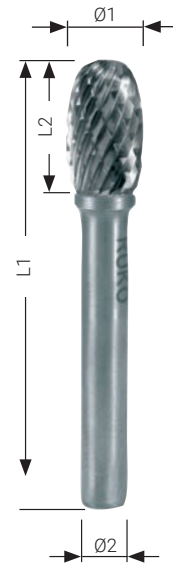


Tungsten carbide rotary burr shape E tear drop (TRE)



Packaging: plastic tube

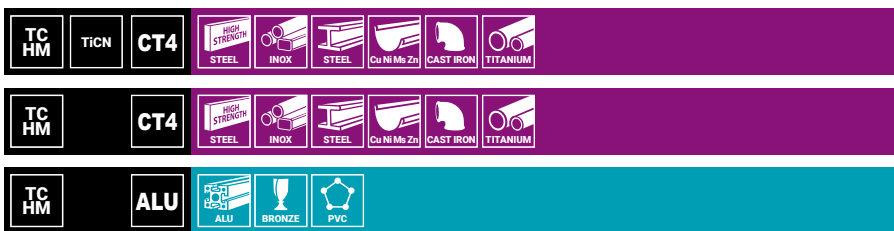
Ø mm	L2 mm	L1 mm	L2 mm	TC / HM CT 4	
3.0	7.0	37.0	3.0	116 210	1
6.0	10.0	50.0	6.0	116 211	1
8.0	13.0	53.0	6.0	116 212	1
10.0	16.0	56.0	6.0	116 213	1
12.0	20.0	60.0	6.0	116 214	1
16.0	25.0	65.0	6.0	116 215	1



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Tungsten carbide rotary burr shape F ball nose tree (RBF)



Packaging: plastic tube

Ø mm	L2 mm	L1 mm	L2 mm	TC / HM TiCN, CT 4	
3.0	7.0	37.0	3.0	—	
6.0	18.0	58.0	6.0	116 030 TC	1
8.0	18.0	60.0	6.0	116 031 TC	1
10.0	20.0	60.0	6.0	116 032 TC	1
12.0	25.0	65.0	6.0	116 033 TC	1
16.0	30.0	70.0	6.0	116 034 TC	1

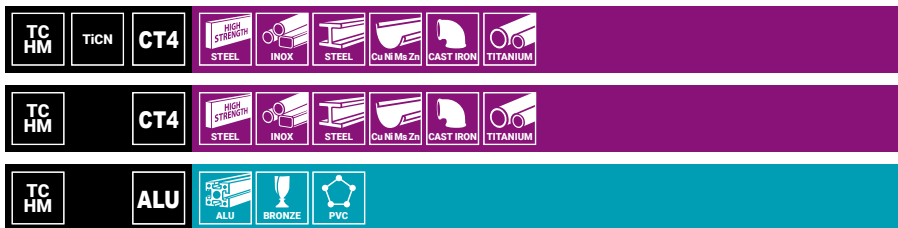


TC / HM CT 4	
116 050	1
116 030	1
116 031	1
116 032	1
116 033	1
116 034	1

TC / HM ALU	
—	
116 030 A	1
—	
—	
116 033 A	1
—	



Tungsten carbide rotary burr shape G tree (SPG)



Packaging: plastic tube

Ø mm	L2 mm	L1 mm	L2 mm	TC / HM	📦	TC / HM	📦	TC / HM	📦
				TiCN, CT 4		CT 4		ALU	
3.0	13.0	38.0	3.0	—	1	116 049	1	—	1
6.0	18.0	58.0	6.0	116 025 TC	1	116 025	1	116 025 A	1
8.0	18.0	60.0	6.0	116 026 TC	1	116 026	1	—	1
10.0	20.0	60.0	6.0	116 027 TC	1	116 027	1	—	1
12.0	25.0	65.0	6.0	116 028 TC	1	116 028	1	116 028 A	1
16.0	25.0	70.0	6.0	116 029 TC	1	116 029	1	—	1

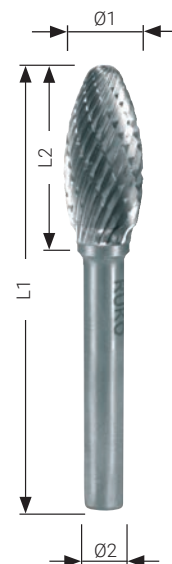


Tungsten carbide rotary burr shape H flame (FLH)



Packaging: plastic tube

Ø mm	L2 mm	L1 mm	L2 mm	TC / HM	📦
				CT 4	
3.0	14.0	38.0	3.0	116 216	1
6.0	13.0	50.0	6.0	116 217	1
8.0	20.0	65.0	6.0	116 218	1
10.0	20.0	65.0	6.0	116 219	1
12.0	30.0	75.0	6.0	116 220	1
16.0	35.0	80.0	6.0	116 221	1



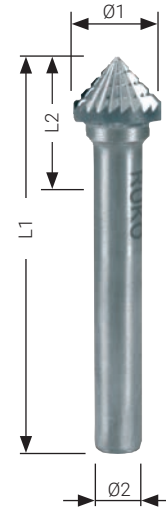


Tungsten carbide rotary burr shape K cone 90° (KSK)



Packaging: plastic tube

Ø mm	L2 mm	L1 mm	L2 mm	TC / HM CT 4	
3.0	3.0	38.0	3.0	116 227	1
6.0	5.0	50.0	6.0	116 228	1
10.0	5.0	50.0	6.0	116 229	1
12.0	8.0	53.0	6.0	116 230	1
16.0	8.0	53.0	6.0	116 231	1



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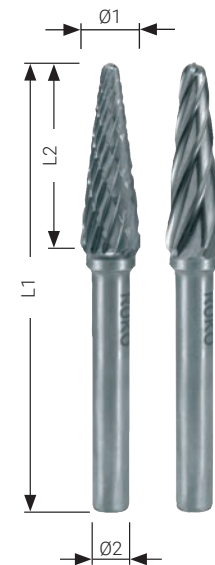


Tungsten carbide rotary burr shape L round cone (KEL)



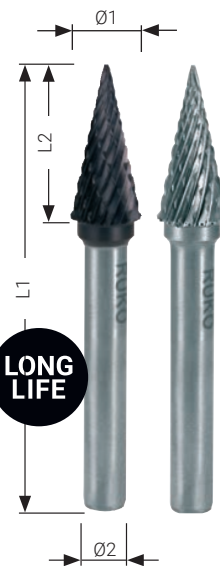
Packaging: plastic tube

Ø mm	L2 mm	L1 mm	L2 mm	TC / HM CT 4		TC / HM ALU	
3.0	12.0	38.0	3.0	116 232	1	—	
6.0	18.0	52.0	6.0	116 233	1	116 233 A	1
8.0	20.0	60.0	6.0	116 234	1	—	
10.0	20.0	60.0	6.0	116 235	1	116 235 A	1
12.0	30.0	70.0	6.0	116 236	1	116 236 A	1
16.0	30.0	70.0	6.0	116 237	1	—	





Tungsten carbide rotary burr shape M cone (SKM)



Packaging: plastic tube

Ø mm	L2 mm	L1 mm	L2 mm	TC / HM TiCN, CT 4		TC / HM CT 4	
3.0	11.0	41.0	3.0	—		116 051	1
6.0	18.0	58.0	6.0	116 035 TC	1	116 035	1
8.0	20.0	60.0	6.0	116 036 TC	1	116 036	1
10.0	20.0	60.0	6.0	116 037 TC	1	116 037	1
12.0	25.0	65.0	6.0	116 038 TC	1	116 038	1
16.0	25.0	65.0	6.0	116 039 TC	1	116 039	1

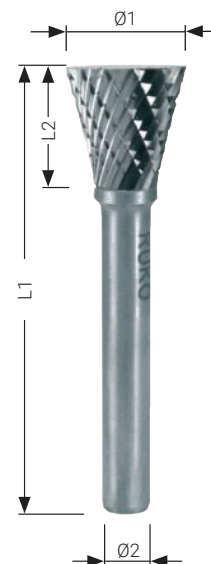


Tungsten carbide rotary burr shape N angle (WKN)



Packaging: plastic tube

Ø mm	L2 mm	L1 mm	L2 mm	TC / HM CT 4	
3.0	7,0	37,0	3,0	116 238	1
6.0	7,0	47,0	6,0	116 239	1
10.0	13,0	53,0	6,0	116 240	1
12.0	13,0	53,0	6,0	116 241	1
16.0	13,0	53,0	6,0	116 242	1





Set of tungsten carbide rotary burrs in a lockable counter display



116 008 TC

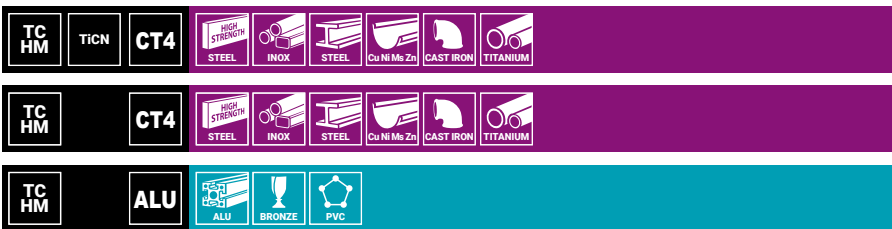


		TC / HM TiCN, CT 4	TC / HM CT 4
35 tfg./pcs.	<p>Tungsten carbide burr module 1x each Ø D1 6.0 mm 8.0 mm 10.0 mm 12.0 mm 16.0 mm</p> <p>5 burrs form A cylinder (ZYA) without face serration 5 burrs form B cylinder (ZYAS) with face tothing 5 burrs shape C cylindrical (WRC) 5 burrs shape G pointed arc (SPG) 5 burrs shape F round arch (RBF) 5 shape M pointed cone (SKM) burrs 5 shape D ball burrs (KUD)</p>	116 008 TC	116 008

Set of tungsten carbide rotary burrs




116 003 RO



		TC / HM TiCN, CT 4	TC / HM CT 4	TC / HM ALU
10 tfg./pcs.	<p>Tungsten carbide burr sets</p> <p>2 x form A cylinder (ZYA) without face gear Ø D1 10.0 / 12.0 mm 2 x form C cylindrical round (WRC) Ø D1 10.0 / 12.0 mm 2 x Form G pointed bend (SPG) Ø D1 10.0 / 12.0 mm 2 x shape F round bend (RBF) Ø D1 10.0 / 12.0 mm 1 x shape M pointed cone (SKM) Ø D1 12.0 mm 1 x shape D ball (KUD) Ø D1 12.0 mm</p>	116 003 TCRO	116 003 RO	
10 tfg./pcs.	<p>Tungsten carbide burr set for aluminium applications</p> <p>2 x form B cylinder (ZYAS) with face tothing Ø D1 6.0 / 12.0 mm 2 x form C cylindrical round (WRC) Ø D1 6.0 / 12.0 mm 2 x Form G pointed bend (SPG) Ø D1 6.0 / 12.0 mm 2 x Form F round bend (RBF) Ø D1 6.0 / 12.0 mm 2 x shape D ball (KUD) Ø D1 6.0 / 12.0 mm</p>			116 103 ARO

Set of tungsten carbide rotary burrs



		TC / HM
3 tfg./pcs.	Set of tungsten carbide rotary burrs TC each 1x Ø 10.0 mm 1x shape B, cylinder (ZYAS) with end tothing 1x shape G, pionted arch (SPG) 1x shape D, cone (KUD)	116 001
10 tfg./pcs.	Set of tungsten carbide rotary burrs TC each 1x Ø 6.0 + Ø 12.0 mm 2x shape B, cylinder (ZYAS) with end tothing 2x shape C, oval (WRC) 2x shape G, pionted arch (SPG) 2x shape F, ball nose tree (RBF) 2x shape D, cone (KUD)	116 002
5 tfg./pcs.	Set of tungsten carbide rotary burrs TC each 1x Ø 10.0 mm 1x shape B, cylinder (ZYAS) with end tothing 1x shape C, oval (WRC) 1x shape G, pionted arch (SPG) 1x shape F, ball nose tree (RBF) 1x shape D, cone (KUD)	116 004
5 tfg./pcs.	Set of tungsten carbide rotary burrs TC each 1x Ø 12.0 mm 1x shape B, cylinder (ZYAS) with end tothing 1x shape C, oval (WRC) 1x shape G, pionted arch (SPG) 1x shape F, ball nose tree (RBF) 1x shape D, cone (KUD)	116 005



Speed guide values for carbide burrs – by diameter

Cutting speed V _c = m/min	250	300	350	400	450	500	600	900
Ø mm	r.p.m.	r.p.m.	r.p.m.	r.p.m.	r.p.m.	r.p.m.	r.p.m.	r.p.m.
3.0	27.000	32.000	37.000	44.000	48.000	54.000	64.000	95.000
4.0	20.000	24.000	28.000	32.000	36.000	40.000	48.000	72.000
6.0	13.000	16.000	19.000	21.000	24.000	27.000	32.000	48.000
8.0	10.000	12.000	14.000	16.000	18.000	20.000	24.000	36.000
10.0	8.000	10.000	11.000	13.000	14.000	16.000	19.000	29.000
12.0	7.000	8.000	9.000	11.000	12.000	13.000	16.000	24.000
16.0	5.000	6.000	7.000	8.000	9.000	10.000	12.000	18.000