



株洲贝特硬质合金工具有限公司

ZHUZHOU BETTER TUNGSTEN CARBIDE CO.,LTD



Carbide
Burr



About ZZBETTER

株洲贝特硬质合金工具有限公司成立于中国硬质合金发源地，亚洲最大的硬质合金生产基地——湖南株洲。公司始终秉承“工匠”精神，专注于硬质合金硬质合金圆棒、硬质合金长条、硬质合金钻齿、硬质合金模具，硬质合金旋转锉及各种非标异形件的生产。我们生产的硬质合金具有高硬度、耐高温、耐腐蚀、高韧性等优点，满足客户不同工况条件下的使用要求。

专业资深的研发团队，为客户提供创新的产品和解决方案；通过与国内国际客户的密切合作，株洲贝特不断探索未来的产品和技术的发展趋势，研发新的材料和加工的解决方案。

专业高效的24小时销售客服，严谨细致的工作态度，保证了我们的产品在国际市场具有强大的竞争力，远销全球70多个国家和地区。

Zhuzhou Better Tungsten Carbide Co., Ltd. was founded in Zhuzhou, which is the birthplace of tungsten carbide in China and also the largest tungsten carbide production base in Asia. With the spirit of "craftsmanship", we specialize in the production of tungsten carbide tools and offer a one-stop service including purchasing, R&D, producing, sales, and after-sales.

ZZbetter produces a wide range of tungsten carbide products with various grades, including carbide rods, carbide strips, carbide buttons, carbide dies, carbide burrs and various non-standard shaped parts. ZZbetter tungsten carbide products are of high hardness, high temperature resistance, high corrosion resistance, and high toughness, which can meet the requirements of different working conditions.

ZZbetter has a professional and experienced R&D team. Cooperating closely with our customers, we keep learning and innovating, insisting on improving product performance, enriching product categories, and increasing customer satisfaction.

ZZbetter owns a skilled and knowledgeable sales team providing 24-hour online services. The advanced technical equipment and sincere working attitude ensure our products have strong competitiveness in the international market. Our tungsten carbide products are exported worldwide.

株洲贝特以高要求、严标准把控产品的细节与制造工序，实验室配备先进的各类仪器设备，严格依据 ISO质量管理体系对各类产品的化学成分和物理性能进行检测，可达到国际同行先进检测水平。

面对复杂多变的世界，株洲贝特仍将不断探索硬质合金工具的更多可能，立志成为具有国际竞争力的世界一流企业。

Our laboratories are equipped with various advanced machines and equipment to control the details of each product and manufacturing process based on strict standards. The chemical compositions and physical performances are tested strictly according to the ISO Quality Management System.

Driven by the ambition to become a world-class company, ZZbetter is continuing to explore the possibilities of tungsten carbide tools. Zhuzhou Better Tungsten Carbide Company strives to be an industry leader.



Production Equipment



Wet Grinding



Pressing



Sintering



Tooth Punching



Testing



Shipping

The way to use the speed guide below:

1. Select application and material group.
2. Identify the appropriate cut style. Please refer to previous page to match your application and the appropriate cutting style.
3. Identify recommended cutting speed.
4. Select bur diameter.
5. Follow maximum rotational speed

MATERIAL GROUP 1	CUT STYLE 2										
Super Alloy Materials	Cut M/F/MX/L										
Hardened steel >45HRc		Cut M/MR/MX									
Non hardened steel <45HRc			Cut M/MR/MX								
High temperature - resistant materials	Cut M/MR/MX										
Non ferrous metals				Cut W							
Non - ferrous light metals					Cut W		Cut C/MR/MX				
Plastics, Hard rubber						Cut W/C					
Fibreglass						Cut L					

RECOMMENDED CUTTING SPEED 3

METRIC (M/MIN)	420	480	540	600	600	720	780	840	900
FRACTIONAL(SFM)	1400	1600	1800	2000	2200	2400	2600	2800	3000

BUR DIAMETER 4

MAXIMUM ROTATIONAL SPEED (RPM) 5

Imperial (Inch)	Metric (mm)										
<1/8	<3	45,000	53,000	60,000	66,000	73,000	79,000	86,000	92,500	100,000	
3/16	5	35,000	40,000	45,000	50,000	55,000	60,000	65,000	70,000	75,000	
1/4	6	26,000	30,000	33,000	37,500	41,500	45,000	49,000	52,500	55,000	
5/16	8	21,000	24,000	27,000	30,000	33,000	36,000	39,000	42,000	45,000	
3/8	10	17,500	20,000	22,000	25,000	27,500	30,000	32,500	35,000	37,500	
1/2	12	13,000	15,000	17,000	19,000	20,500	22,500	24,500	26,000	28,000	
5/8	16	10,500	12,000	13,500	15,000	16,500	18,000	19,500	21,000	22,500	
3/4	20	9,000	10,000	11,000	12,500	14,000	15,000	16,250	17,500	19,000	
1	25	6,500	7,500	8,500	9,500	10,500	11,000	12,000	13,000	14,000	

Please note that all cuts available are not displayed in this product catalogue.

Please contact ZWBETTER Carbide Customer Service to discuss your specific requirements.

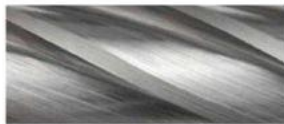
Standard Cut Types



Cut MX - Double cut for general purpose use. Improves control and reduces chips

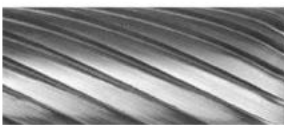


Cut M - Standard cut for general applications

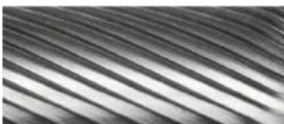


Cut W - Fast Mill cut for rapid stock removal of softer non-ferrous materials including plastics

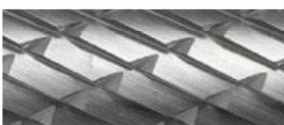
Special Cut Types



Cut C - Coarse cut for metal removal and finishing applications on non-ferrous metal alloys



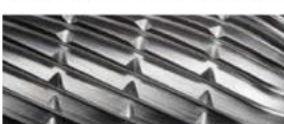
Cut F - Fine cut for improved finish on all ferrous metals-



Cut ZX - Foundry cut for maximum stock removal, rough edges and foundry applications



Cut L - Diamond cut for hardest materials and best finishes



Cut MR - Chipbreaker cut for fast stock removal. Improves control and surface finish



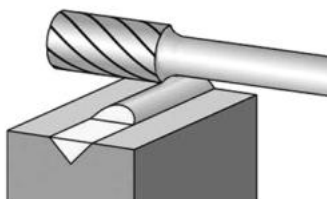
Cut SX - Aggressive cutting form for increased stock removal

Recommendation for Cut Types

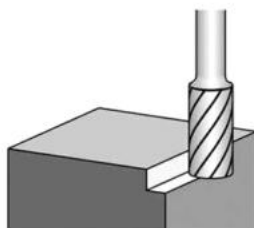
● Highly Recommended

Material	Cut MX	Cut M	Cut W
Aluminium, Plastic			●
Brass, Copper, Cast Iron, Bronze	●	●	
Unhardened Steels	●	●	
Hardened Steels	●	●	
Hardened Steels, Stainless Steels, Nimonic Alloys, Titanium	●	●	

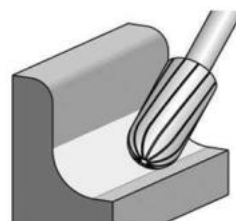
All Kinds of Tooth Shape



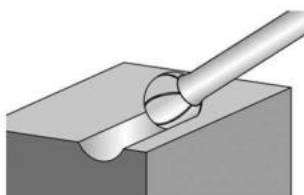
SA Cylinder Shape



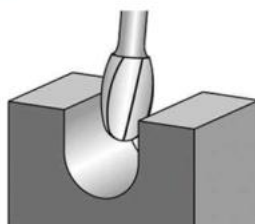
SB Cylinder Shape With End Cut



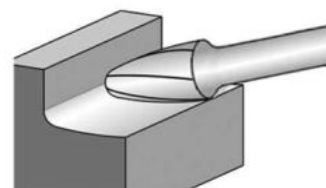
SC Ball Nose Cylinder Shape



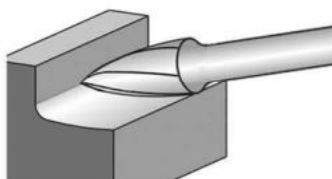
SD Ball Shape



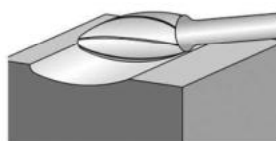
SE Oval Shape



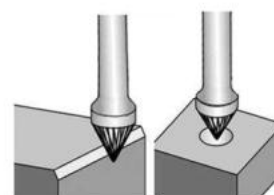
SF Tree Shape



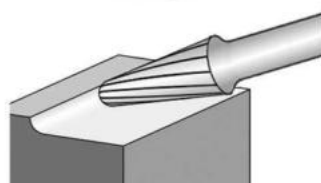
SG Pointed Tree Shape



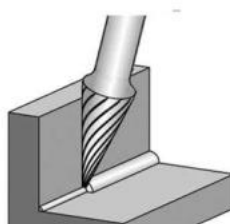
SH Flame Shape



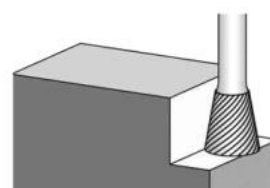
SK Countersink Shape



SL Ball Nose Cone Shape



SM Cone Shape



SN Inverted Cone Shape

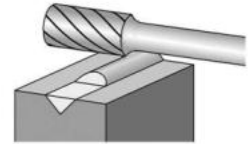
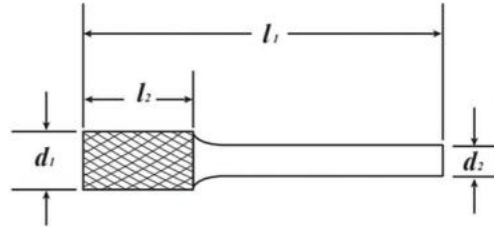


Type A Carbide Burr



Burr shape-cylinder

Type A carbide burr is suitable for machining surface profile of workpiece



Metric Size

Shank Diameter (mm)	Cutter Diameter (d_1)	Length of cut (l_2)	Shank Diameter (d_2)	Overall Length (l_1)	Tool No.	Type
3.0	3	14	3	38	SA30314	Solid
	4	13	3	51	SA30413	Brazed
	5	13	3	51	SA30513	Brazed
	6	13	3	51	SA30613	Brazed
6.0	6	16	6	50	SA60616	Solid
	6	16	6	61	SA60616	Brazed
	8	20	6	65	SA60820	Brazed
	10	20	6	70	SA61020	Brazed
	11	25	6	70	SA61125	Brazed
	12	25	6	70	SA61225	Brazed
	16	25	6	70	SA61625	Brazed
	20	25	6	70	SA62025	Brazed
8.0	25	25	6	70	SA62525	Brazed
	10	20	8	65	SA81020	Brazed
	11	25	8	70	SA81125	Brazed
	12	25	8	70	SA81225	Brazed
	16	25	8	70	SA81625	Brazed
	20	25	8	70	SA82025	Brazed
	25	25	8	70	SA82525	Brazed

Inch Size

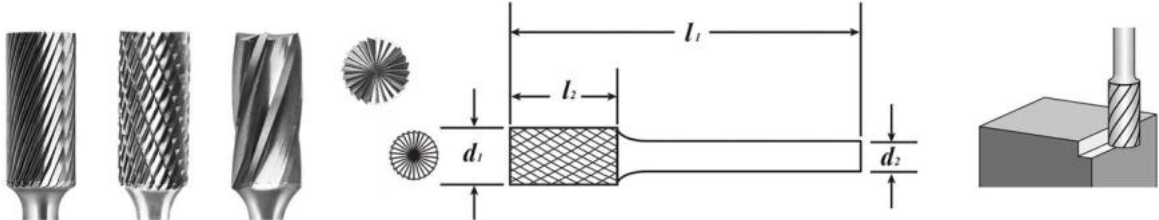
Shank Diameter (mm)	Cutter Diameter (d_1)	Length of cut (l_2)	Shank Diameter (d_2)	Overall Length (l_1)	Tool No.	Type
1/8	1/8	1/2	1/8	1-1/2	SA-43	Solid
	1/4	1/2	1/8	2	SA-51	Brazed
1/4	1/4	5/8	1/4	2	SA-1	Solid
	1/4	5/8	1/4	2-3/8	SA-1	Brazed
	5/16	3/4	1/4	2-1/2	SA-2	Brazed
	3/8	3/4	1/4	2-1/2	SA-3	Brazed
	7/16	1	1/4	2-3/4	SA-4	Brazed
	1/2	1	1/4	2-3/4	SA-5	Brazed
	5/8	1	1/4	2-3/4	SA-6	Brazed
	3/4	1	1/4	2-3/4	SA-7	Brazed
	7/8	1	1/4	2-3/4	SA-8	Brazed
	1	1	1/4	2-3/4	SA-9	Brazed
	/	/	/	/	/	/

Type B Carbide Burr



Burr shape-cylinder with end cut

Type B carbide burr is suitable for machining surface profile and the interchange of two right angle surface of workpiece



Metric Size

Shank Diameter (mm)	Cutter Diameter (d ₁)	Length of cut (l ₂)	Shank Diameter (d ₂)	Overall Length (l ₁)	Tool No.	Type
3.0	3	14	3	38	SB30314	Solid
	4	13	3	51	SB30413	Brazed
	5	13	3	51	SB30513	Brazed
	6	13	3	51	SB30613	Brazed
6.0	6	16	6	50	SB60616	Solid
	6	16	6	61	SB60616	Brazed
	8	20	6	65	SB60820	Brazed
	10	20	6	70	SB61020	Brazed
	11	25	6	70	SB61125	Brazed
	12	25	6	70	SB61225	Brazed
	16	25	6	70	SB61625	Brazed
	20	25	6	70	SB62025	Brazed
8.0	25	25	6	70	SB62525	Brazed
	10	20	8	65	SB81020	Brazed
	11	25	8	70	SB81125	Brazed
	12	25	8	70	SB81225	Brazed
	16	25	8	70	SB81625	Brazed
	20	25	8	70	SB82025	Brazed
	25	25	8	70	SB82525	Brazed

Inch Size

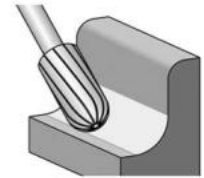
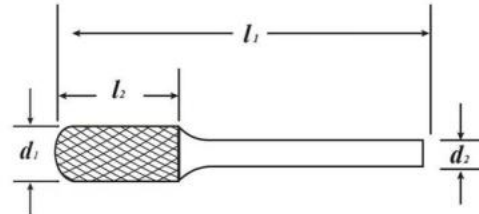
Shank Diameter (mm)	Cutter Diameter (d ₁)	Length of cut (l ₂)	Shank Diameter (d ₂)	Overall Length (l ₁)	Tool No.	Type
1/8	1/8	1/2	1/8	1-1/2	SB-43	Solid
	1/4	1/2	1/8	2	SB-51	Brazed
1/4	1/4	5/8	1/4	2	SB-1	Solid
	1/4	5/8	1/4	2-3/8	SB-1	Brazed
	5/16	3/4	1/4	2-1/2	SB-2	Brazed
	3/8	3/4	1/4	2-1/2	SB-3	Brazed
	7/16	1	1/4	2-3/4	SB-4	Brazed
	1/2	1	1/4	2-3/4	SB-5	Brazed
	5/8	1	1/4	2-3/4	SB-6	Brazed
	3/4	1	1/4	2-3/4	SB-7	Brazed
	7/8	1	1/4	2-3/4	SB-8	Brazed
	1	1	1/4	2-3/4	SB-9	Brazed
	/	/	/	/	/	/

Type C Carbide Burr



Burr shape-ball nosed cylinder

Type C carbide burr is suitable for machining surface profile and circular arc profile of workpiece



Metric Size

Shank Diameter (mm)	Cutter Diameter (d_1)	Length of cut (l_2)	Shank Diameter (d_2)	Overall Length (l_1)	Tool No.	Type
3.0	3	14	3	38	SC30314	Solid
	4	13	3	51	SC30413	Brazed
	5	13	3	51	SC30513	Brazed
	6	13	3	51	SC30613	Brazed
6.0	6	16	6	50	SC60616	Solid
	6	16	6	61	SC60616	Brazed
	8	20	6	65	SC60820	Brazed
	10	20	6	70	SC61020	Brazed
	11	25	6	70	SC61125	Brazed
	12	25	6	70	SC61225	Brazed
	16	25	6	70	SC61625	Brazed
	20	25	6	70	SC62025	Brazed
8.0	25	25	6	70	SC62525	Brazed
	10	20	8	65	SC81020	Brazed
	11	25	8	70	SC81125	Brazed
	12	25	8	70	SC81225	Brazed
	16	25	8	70	SC81625	Brazed
	20	25	8	70	SC82025	Brazed
	25	25	8	70	SC82525	Brazed

Inch Size

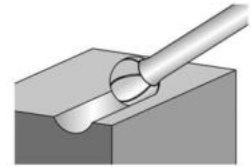
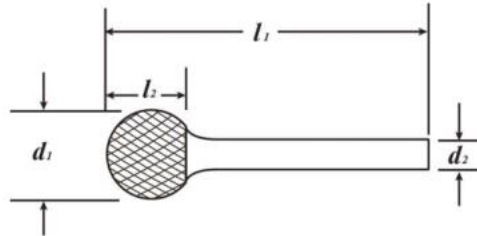
Shank Diameter (mm)	Cutter Diameter (d_1)	Length of cut (l_2)	Shank Diameter (d_2)	Overall Length (l_1)	Tool No.	Type
1/8	1/8	1/2	1/8	1-1/2	SC-43	Solid
	1/4	1/2	1/8	2	SC-51	Brazed
1/4	1/4	5/8	1/4	2	SC-1	Solid
	1/4	5/8	1/4	2-3/8	SC-1	Brazed
	5/16	3/4	1/4	2-1/2	SC-2	Brazed
	3/8	3/4	1/4	2-1/2	SC-3	Brazed
	7/16	1	1/4	2-3/4	SC-4	Brazed
	1/2	1	1/4	2-3/4	SC-5	Brazed
	5/8	1	1/4	2-3/4	SC-6	Brazed
	3/4	1	1/4	2-3/4	SC-7	Brazed
	7/8	1	1/4	2-3/4	SC-8	Brazed
	1	1	1/4	2-3/4	SC-9	Brazed
	/	/	/	/	/	/

Type D Carbide Burr



Burr shape-ball shape

Type D carbide burr is suitable for machining circular arc profile, removing burrs of diameter and machining weld point before weld.



Metric Size

Shank Diameter (mm)	Cutter Diameter (d ₁)	Length of cut (l ₂)	Shank Diameter (d ₂)	Overall Length (l ₁)	Tool No.	Type
3.0	3	2	3	38	SD30302	Solid
	4	3	3	41	SD30403	Brazed
	5	4	3	42	SD30504	Brazed
	6	5	3	43	SD30605	Brazed
6.0	6	5	6	50	SD60605	Solid
	6	5	6	50	SD60605	Brazed
	8	7	6	52	SD60807	Brazed
	10	9	6	54	SD61009	Brazed
	11	10	6	55	SD61110	Brazed
	12	10	6	55	SD61210	Brazed
	16	14	6	59	SD61614	Brazed
	20	18	6	63	SD62018	Brazed
8.0	25	21	6	66	SD62521	Brazed
	10	9	8	54	SD81009	Brazed
	11	10	8	55	SD81110	Brazed
	12	10	8	55	SD81210	Brazed
	16	14	8	59	SD81614	Brazed
	20	18	8	63	SD82018	Brazed
	25	21	8	66	SD82521	Brazed

Inch Size

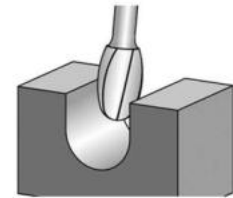
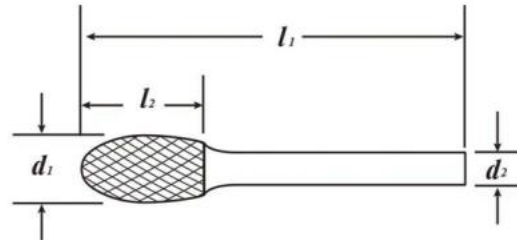
Shank Diameter (mm)	Cutter Diameter (d ₁)	Length of cut (l ₂)	Shank Diameter (d ₂)	Overall Length (l ₁)	Tool No.	Type
1/8	1/8	1/8	1/8	1-1/2	SD-43	Solid
	1/4	7/32	1/8	2	SD-51	Brazed
1/4	1/4	7/32	1/4	2	SD-1	Solid
	1/4	7/32	1/4	1-31/32	SD-1	Brazed
	5/16	1/4	1/4	2	SD-2	Brazed
	3/8	5/16	1/4	2-1/16	SD-3	Brazed
	7/16	3/8	1/4	2-1/7	SD-4	Brazed
	1/2	7/16	1/4	2-1/5	SD-5	Brazed
	5/8	9/16	1/4	2-1/3	SD-6	Brazed
	3/4	11/16	1/4	2-4/9	SD-7	Brazed
	7/8	1	1/4	2-3/4	SD-8	Brazed
	1	15/16	1/4	2-2/3	SD-9	Brazed
	/	/	/	/	/	/

Type E Carbide Burr



Burr shape-oval shape

Type E carbide burr is suitable for machining circular arc profile of workpiece



Metric Size

Shank Diameter (mm)	Cutter Diameter (d_1)	Length of cut (l_2)	Shank Diameter (d_2)	Overall Length (l_1)	Tool No.	Type
3.0	3	6	3	38	SE30306	Solid
	4	7	3	45	SE30407	Brazed
	5	8	3	46	SE30508	Brazed
	6	10	3	48	SE30610	Brazed
6.0	6	10	6	50	SE60610	Solid
	6	10	6	55	SE60610	Brazed
	8	13	6	58	SE60813	Brazed
	10	16	6	61	SE61016	Brazed
	12	20	6	65	SE61220	Brazed
	16	25	6	70	SE61625	Brazed
	20	25	6	70	SE62025	Brazed
	25	25	6	70	SE62525	Brazed
	/	/	/	/	/	/
8.0	10	16	8	61	SE81016	Brazed
	12	20	8	65	SE81220	Brazed
	16	25	8	70	SE81625	Brazed
	20	25	8	70	SE82025	Brazed
	25	25	8	70	SE82525	Brazed
	/	/	/	/	/	/

Inch Size

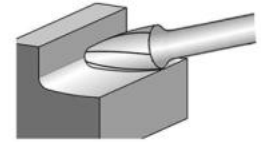
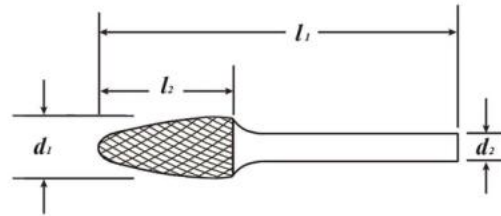
Shank Diameter (mm)	Cutter Diameter (d_1)	Length of cut (l_2)	Shank Diameter (d_2)	Overall Length (l_1)	Tool No.	Type
1/8	1/8	1/4	1/8	1-1/2	SE-41	Solid
	1/4	3/8	1/8	1-8/9	SE-51	Brazed
1/4	1/4	3/8	1/4	2	SE-1	Solid
	1/4	3/8	1/4	2-1/8	SE-1	Brazed
	5/16	1/2	1/4	2-1/4	SE-2	Brazed
	3/8	5/8	1/4	2-3/8	SE-3	Brazed
	1/2	7/8	1/4	2-5/8	SE-5	Brazed
	5/8	1	1/4	2-3/4	SE-6	Brazed
	3/4	1	1/4	2-3/4	SE-7	Brazed
	/	/	/	/	/	/
	/	/	/	/	/	/
	/	/	/	/	/	/

Type F Carbide Burr



Burr shape-ball nosed tree

Type F carbide burr is suitable for machining circular arc profile of workpiece which in confined space.



Metric Size

Shank Diameter (mm)	Cutter Diameter (d_1)	Length of cut (l_2)	Shank Diameter (d_2)	Overall Length (l_1)	Tool No.	Type
3.0	3	14	3	38	SF30314	Solid
	4	13	3	51	SF30413	Brazed
	5	13	3	51	SF30513	Brazed
	6	13	3	51	SF30613	Brazed
6.0	6	16	6	50	SF60616	Solid
	6	18	6	63	SF60618	Brazed
	8	20	6	65	SF60820	Brazed
	10	25	6	65	SF61020	Brazed
	11	25	6	70	SF61125	Brazed
	12	25	6	70	SF61225	Brazed
	16	25	6	70	SF61625	Brazed
	20	25	6	70	SF62025	Brazed
	25	25	6	70	SF62525	Brazed
8.0	10	20	8	65	SF81020	Brazed
	11	25	8	70	SF81125	Brazed
	12	25	8	70	SF81225	Brazed
	16	25	8	70	SF81625	Brazed
	20	25	8	70	SF82025	Brazed
	25	25	8	70	SF82525	Brazed

Inch Size

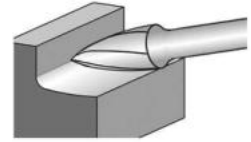
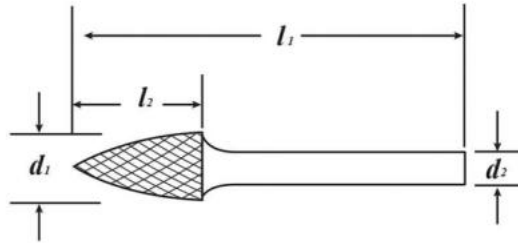
Shank Diameter (mm)	Cutter Diameter (d_1)	Length of cut (l_2)	Shank Diameter (d_2)	Overall Length (l_1)	Tool No.	Type
1/8	1/8	1/2	1/8	1-1/2	SF-42	Solid
	1/4	1/2	1/8	2	SF-51	Brazed
1/4	1/4	5/8	1/4	2	SF-1	Solid
	1/4	5/8	1/4	2-3/8	SF-1	Brazed
	5/16	3/4	1/4	2-1/2	SF-2	Brazed
	3/8	3/4	1/4	2-1/2	SF-3	Brazed
	7/16	1	1/4	2-3/4	SF-4	Brazed
	1/2	1	1/4	2-3/4	SF-5	Brazed
	5/8	1	1/4	2-3/4	SF-6	Brazed
	3/4	1	1/4	2-3/4	SF-7	Brazed
	3/4	1-1/4	1/4	3	SF-14	Brazed
	3/4	1-1/2	1/4	3-1/4	SF-15	Brazed
	/	/	/	/	/	/

Type G Carbide Burr



Burr shape-point tree

Type G carbide burr is suitable for machining circular arc profile which in confined spaces and acute-angled profile of workpiece.



Metric Size

Shank Diameter (mm)	Cutter Diameter (d_1)	Length of cut (l_2)	Shank Diameter (d_2)	Overall Length (l_1)	Tool No.	Type
3.0	3	14	3	38	SG30314	Solid
	4	13	3	51	SG30413	Brazed
	5	13	3	51	SG30513	Brazed
	6	13	3	51	SG30613	Brazed
6.0	6	16	6	50	SG60616	Solid
	6	18	6	63	SG60618	Brazed
	8	20	6	65	SG60820	Brazed
	10	20	6	65	SG61020	Brazed
	12	25	6	70	SG61225	Brazed
	16	25	6	70	SG61625	Brazed
	20	25	6	70	SG62025	Brazed
	25	25	6	70	SG62525	Brazed
	/	/	/	/	/	/
8.0	10	20	8	65	SG81020	Brazed
	12	25	8	70	SG81225	Brazed
	16	25	8	70	SG81625	Brazed
	20	25	8	70	SG82025	Brazed
	25	25	8	70	SG82525	Brazed
	/	/	/	/	/	/

Inch Size

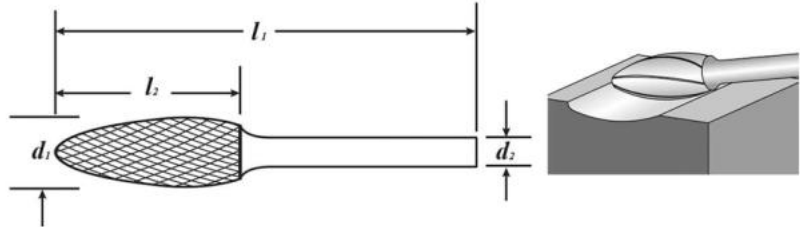
Shank Diameter (mm)	Cutter Diameter (d_1)	Length of cut (l_2)	Shank Diameter (d_2)	Overall Length (l_1)	Tool No.	Type
1/8	1/8	1/2	1/8	1-1/2	SG-44	Solid
	1/4	1/2	1/8	2	SG51	Brazed
1/4	1/4	5/8	1/4	2	SG-1	Solid
	1/4	5/8	1/4	2-3/8	SG1	Brazed
	5/16	3/4	1/4	2-1/2	SG2	Brazed
	3/8	3/4	1/4	2-1/2	SG3	Brazed
	1/2	1	1/4	2-3/4	SG5	Brazed
	5/8	1	1/4	2-3/4	SG-6	Brazed
	3/4	1	1/4	2-3/4	SG-7	Brazed
	3/4	1-1/2	1/4	3-1/4	SG-15	Brazed
	/	/	/	/	/	/
	/	/	/	/	/	/
	/	/	/	/	/	/

Type H Carbide Burr



Burr shape-flame shape

Type H carbide burr is suitable for machining circular arc profile of workpiece



Metric Size

Shank Diameter (mm)	Cutter Diameter (d_1)	Length of cut (l_2)	Shank Diameter (d_2)	Overall Length (l_1)	Tool No.	Type
3.0	3	14	3	38	SH30306	Solid
	4	13	3	51	SH30413	Brazed
	5	13	3	51	SH30513	Brazed
	6	13	3	51	SH30613	Brazed
6.0	6	16	6	50	SH60616	Solid
	6	18	6	63	SH60618	Brazed
	8	20	6	65	SH60820	Brazed
	10	25	6	70	SH61025	Brazed
	12	32	6	77	SH61232	Brazed
	16	36	6	81	SH61636	Brazed
	19	41	6	86	SH61941	Brazed
	/	/	/	/	/	/
8.0	10	25	8	70	SH81025	Brazed
	12	32	8	77	SH81232	Brazed
	16	36	8	81	SH81636	Brazed
	19	41	8	86	SH81941	Brazed
	/	/	/	/	/	/
	/	/	/	/	/	/

Inch Size

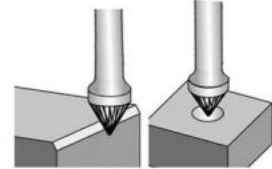
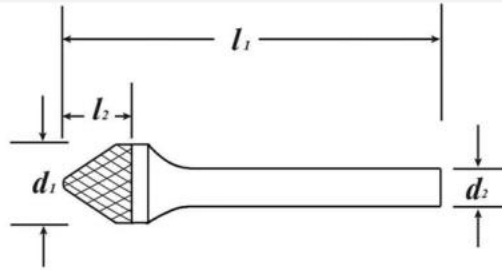
Shank Diameter (mm)	Cutter Diameter (d_1)	Length of cut (l_2)	Shank Diameter (d_2)	Overall Length (l_1)	Tool No.	Type
1/8	1/8	1/4	1/8	1-1/2	SH-44	Solid
	1/4	1/2	1/8	2	SH-51	Brazed
1/4	1/4	5/8	1/4	2	SH-1	Solid
	1/4	5/8	1/4	2-3/8	SH-1	Brazed
	5/16	3/4	1/4	2-1/2	SH-2	Brazed
	3/8	1	1/4	2-3/4	SH3	Brazed
	1/2	1-1/4	1/4	3	SH5	Brazed
	5/8	1-7/16	1/4	3-1/5	SH6	Brazed
	3/4	1-5/8	1/4	3-3/8	SH7	Brazed
	/	/	/	/	/	/
	/	/	/	/	/	/
	/	/	/	/	/	/

Type J Carbide Burr



Burr shape-60°countersink

Type J carbide burr is suitable for machining 60° counter boring arc chamfering of workpiece



Metric Size

Shank Diameter (mm)	Cutter Diameter (d ₁)	Length of cut (l ₂)	Shank Diameter (d ₂)	Overall Length (l ₁)	Tool No.	Type
3.0	3	2	3	38	SJ30302	Solid
	/	/	/	/	/	/
	/	/	/	/	/	/
	/	/	/	/	/	/
6.0	6	5	6	50	SJ60605	Solid
	6	5	6	52	SJ60605	Brazed
	8	6	6	54	SJ60806	Brazed
	10	8	6	56	SJ61008	Brazed
	12	10	6	58	SJ61210	Brazed
	16	13	6	63	SJ61613	Brazed
	19	16	6	65	SJ61916	Brazed
	25	21	6	70	SJ62521	Brazed
	/	/	/	/	/	/
8.0	10	8	8	56	SJ81008	Brazed
	12	10	8	58	SJ81210	Brazed
	16	13	8	63	SJ81613	Brazed
	19	16	8	65	SJ81916	Brazed
	25	21	8	70	SJ82521	Brazed
	/	/	/	/	/	/

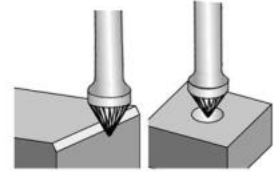
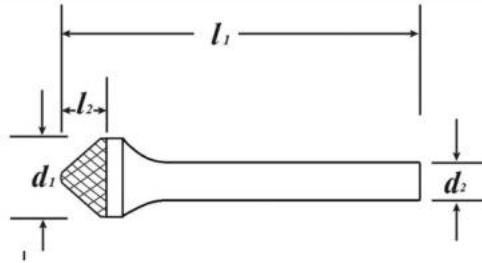
Inch Size

Shank Diameter (mm)	Cutter Diameter (d ₁)	Length of cut (l ₂)	Shank Diameter (d ₂)	Overall Length (l ₁)	Tool No.	Type
1/8	1/8	3/32	1/8	1-1/2	SJ-42	Solid
	/	/	/	/	/	/
1/4	1/4	3/16	1/4	2	SJ-1	Brazed
	1/4	3/16	1/4	2	SJ-1	Brazed
	3/8	5/16	1/4	2-1/5	SJ-3	Brazed
	1/2	7/16	1/4	2-1/3	SJ-5	Brazed
	5/8	9/16	1/4	2-4/9	SJ-6	Brazed
	3/4	11/16	1/4	2-5/9	SJ-7	Brazed
	1	15/16	1/4	2-7/9	SJ-9	Brazed
	/	/	/	/	/	/
	/	/	/	/	/	/
	/	/	/	/	/	/

Type K Carbide Burr



Burr shape-90° countersink
 Type K carbide burr is suitable for machining circular arc profile of workpiece



Metric Size

Shank Diameter (mm)	Cutter Diameter (d ₁)	Length of cut (l ₂)	Shank Diameter (d ₂)	Overall Length (l ₁)	Tool No.	Type
3.0	3	1.5	3	38	SK30315	Solid
	/	/	/	/	/	/
	/	/	/	/	/	/
	/	/	/	/	/	/
6.0	6	3	6	50	SK60603	Solid
	6	3	6	50	SK60603	Brazed
	8	4	6	52	SK60804	Brazed
	10	5	6	53	SK61005	Brazed
	12	6	6	54	SK61206	Brazed
	16	8	6	57	SK61608	Brazed
	19	9	6	58	SK61909	Brazed
	25	12	6	61	SK62512	Brazed
	/	/	/	/	/	/
8.0	10	5	8	53	SK81008	Brazed
	12	6	8	54	SK81210	Brazed
	16	8	8	57	SK81613	Brazed
	19	9	8	58	SK81916	Brazed
	25	12	8	61	SK82521	Brazed
	/	/	/	/	/	/

Inch Size

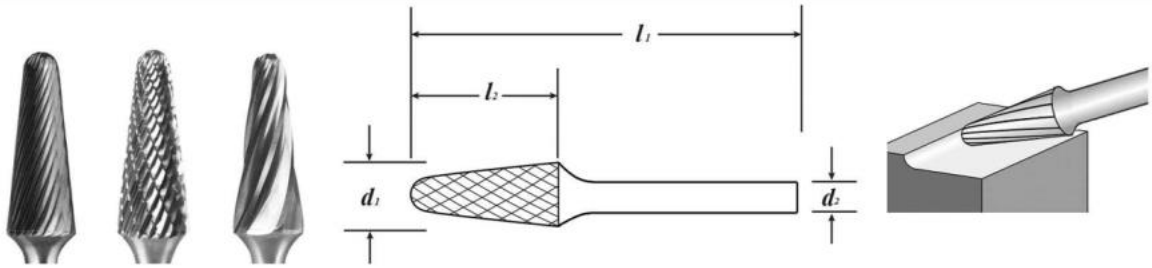
Shank Diameter (mm)	Cutter Diameter (d ₁)	Length of cut (l ₂)	Shank Diameter (d ₂)	Overall Length (l ₁)	Tool No.	Type
1/8	1/8	1/16	1/8	1-1/2	SK-42	Solid
	/	/	/	/	/	Solid
1/4	1/4	1/8	1/4	2	SK-1	Brazed
	1/4	1/8	1/4	2	SK-1	Brazed
	3/8	3/16	1/4	2-1/16	SK-3	Brazed
	1/2	1/4	1/4	2-1/9	SK-5	Brazed
	5/8	5/16	1/4	2-1/4	SK-6	Brazed
	3/4	3/8	1/4	2-1/3	SK-7	Brazed
	1	1/2	1/4	2-3/8	SK-9	Brazed
	/	/	/	/	/	/
	/	/	/	/	/	/
	/	/	/	/	/	/

Type L Carbide Burr



Burr shape-ball nose cone

Type L carbide burr is suitable for machining narrow profile and surface profile of workpiece



Metric Size

Shank Diameter (mm)	Cutter Diameter (d ₁)	Length of cut (l ₂)	Shank Diameter (d ₂)	Overall Length (l ₁)	Tool No.	Type
3.0	3	14	3	38	SL30314	Solid
	4	13	3	51	SL30413	Brazed
	5	13	3	51	SL30513	Brazed
	6	13	3	51	SL30613	Brazed
6.0	6	16	6	50	SL60616	Solid
	6	16	6	61	SL60616	Brazed
	8	22	6	67	SL60822	Brazed
	10	25	6	70	SL61025	Brazed
	12	28	6	73	SL61228	Brazed
	16	33	6	78	SL61633	Brazed
	20	31	6	76	SL62031	Brazed
	25	45	6	90	SL62545	Brazed
	/	/	/	/	/	/
8.0	10	25	8	70	SL81025	Brazed
	12	28	8	73	SL81228	Brazed
	16	33	8	78	SL81633	Brazed
	20	31	8	76	SL82031	Brazed
	25	45	8	90	SL82545	Brazed
	/	/	/	/	/	/

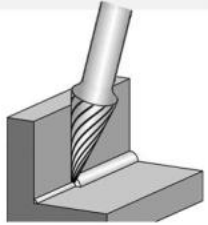
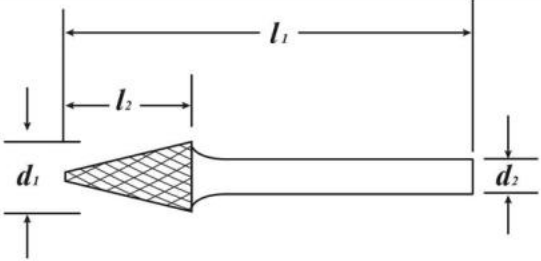
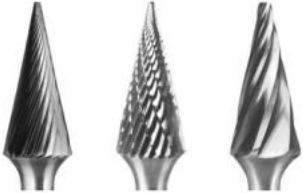
Inch Size

Shank Diameter (mm)	Cutter Diameter (d ₁)	Length of cut (l ₂)	Shank Diameter (d ₂)	Overall Length (l ₁)	Tool No.	Type
1/8	1/8	1/2	1/8	1-1/2	SL-42	Solid
	1/4	1/2	1/8	2	SL-51	Brazed
1/4	1/4	5/8	1/4	2	SL-1	Solid
	1/4	5/8	1/4	2-3/8	SL-1	Brazed
	5/16	7/8	1/4	2-3/4	SL-2	Brazed
	3/8	1-1/16	1/4	2-15/16	SL-3	Brazed
	1/2	1-1/8	1/4	3	SL-4	Brazed
	5/8	1-3/16	1/4	3-1/16	SL-5	Brazed
	5/8	1-5/16	1/4	3-1/5	SL-6	Brazed
	3/4	1-1/2	1/4	3-3/8	SL-7	Brazed
	/	/	/	/	/	/
	/	/	/	/	/	/
	/	/	/	/	/	/

Type M Carbide Burr



Burr shape-cone shape
 Type M carbide burr is suitable for machining narrow profile and surface profile of workpiece



Metric Size						
Shank Diameter (mm)	Cutter Diameter (d ₁)	Length of cut (l ₂)	Shank Diameter (d ₂)	Overall Length (l ₁)	Tool No.	Type
3.0	3	11	3	38	SM30311	Solid
	4	13	3	51	SM30413	Brazed
	5	13	3	51	SM30513	Brazed
	6	13	3	51	SM30613	Brazed
6.0	6	16	6	50	SM60616	Solid
	6	18	6	63	SM60618	Brazed
	8	20	6	65	SM60820	Brazed
	10	20	6	65	SM61020	Brazed
	12	25	6	70	SM61225	Brazed
	16	25	6	70	SM61625	Brazed
	19	25	6	70	SM61925	Brazed
	22	25	6	70	SM62225	Brazed
/	/	/	/	/	/	/
8.0	10	20	8	70	SM81020	Brazed
	12	25	8	73	SM81225	Brazed
	16	25	8	78	SM81625	Brazed
	19	25	8	76	SM81925	Brazed
	22	25	8	90	SM82225	Brazed
	/	/	/	/	/	/

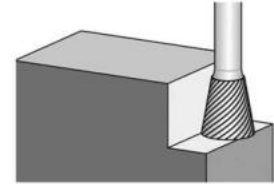
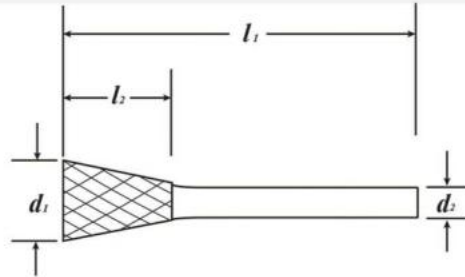
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Shank Diameter (mm)	Cutter Diameter (d ₁)	Length of cut (l ₂)	Shank Diameter (d ₂)	Overall Length (l ₁)	Tool No.	Type	
1/8	1/8	7/16	1/8	1-1/2	SM-42	Solid	
	1/4	1/2	1/8	2	SM-51	Brazed	
1/4	1/4	1/2	1/4	2	SM-1	Solid	
	1/4	5/8	1/4	2-3/8	SM-1	Brazed	
	1/4	3/4	1/4	2-1/2	SM-2	Brazed	
	1/4	1	1/4	2-3/4	SM-3	Brazed	
	3/8	5/8	1/4	2-1/2	SM4	Brazed	
	1/2	7/8	1/4	2-3/4	SM5	Brazed	
	5/8	1	1/4	2-8/9	SM6	Brazed	
	/	/	/	/	/	/	/
	/	/	/	/	/	/	/
	/	/	/	/	/	/	/

Type N Carbide Burr



Burr shape-inverted cone

Type N carbide burr is suitable for machining the chamfering of inside of workpiece



Metric Size

Shank Diameter (mm)	Cutter Diameter (d ₁)	Length of cut (l ₂)	Shank Diameter (d ₂)	Overall Length (l ₁)	Tool No.	Type
3.0	3	4	3	38	SN30304	Solid
	4	5	3	43	SN30405	Brazed
	5	6	3	44	SN30506	Brazed
	6	7	3	45	SN30607	Brazed
6.0	6	7	6	50	SN60607	Solid
	6	7	6	52	SN60607	Brazed
	8	9	6	54	SN60809	Brazed
	10	10	6	55	SN61010	Brazed
	12	13	6	58	SN61213	Brazed
	16	16	6	61	SN61616	Brazed
	/	/	/	/	/	/
	/	/	/	/	/	/
8.0	10	10	8	55	SN81010	Brazed
	12	13	8	58	SN81213	Brazed
	16	16	8	61	SN81616	Brazed
	/	/	/	/	/	/
	/	/	/	/	/	/
	/	/	/	/	/	/

Inch Size

Shank Diameter (mm)	Cutter Diameter (d ₁)	Length of cut (l ₂)	Shank Diameter (d ₂)	Overall Length (l ₁)	Tool No.	Type	
1/8	1/8	3/16	1/8	1-1/2	SN-42	Solid	
	1/4	1/4	1/8	2	SN-51	Brazed	
1/4	1/4	5/16	1/4	2	SN-1	Solid	
	1/4	5/16	1/4	2-1/16	SN-1	Brazed	
	3/8	3/8	1/4	2-1/9	SN-2	Brazed	
	1/2	1/2	1/4	2-1/4	SN-4	Brazed	
	5/8	3/4	1/4	2-1/2	SN-6	Brazed	
	3/4	5/8	1/4	2-3/8	SN-7	Brazed	
	/	/	/	/	/	/	Brazed
	/	/	/	/	/	/	/
	/	/	/	/	/	/	/
	/	/	/	/	/	/	/

Other Types of Carbide Burrs

Irregular shapes carbide burr



Long shank carbide burr

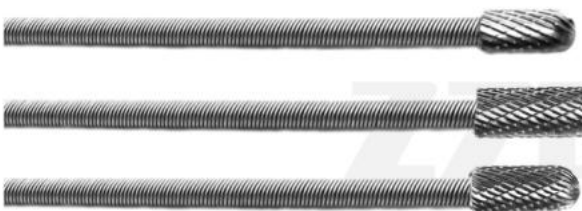
Shank length 100mm, 150 mm, etc



Semi-finished carbide burr



Flexible shank carbide burr



Carbide burr set





株洲贝特硬质合金工具有限公司

ZHUZHOU BETTER TUNGSTEN CARBIDE CO;LTD

国内销售部: Domestic sales Department

邮箱: sales@zzbetter.com

电话: 0731-28705418

手机: 18173362238

网址: www.zzbetter.com

地址: 湖南省株洲市天元区黄河北路1318号

国际销售部: International Sales Department

Mail: sales8@zzbetter.com

Tel: 0086 731 28705418

Mobile/Whatsapp: 0086 18173392980

Web: www.zzbetter.com

Add: Huanghe North Road, Tianyuan District,
Zhuzhou City, Hunan Province, China 412000

