

ALGUNNIR

Gungnir industry

FOCUS ON TUNGSTEN CARBIDE BURR



New Product Catalogue
www.gungnirtools.com

FACTORY INTRODUCTION

Gungnir Industry Ltd. is a renowned Chinese manufacturer that was established in 1995. We specialize in producing high-quality carbide rotary burrs, solid rods, and blanks.

Our carbide burr heads are meticulously crafted with precision using premium-grade raw carbide material. This ensures exceptional durability and optimal performance. The shanks are expertly made from a patented nickel stainless material and securely connected to the burr heads through sandwich welding. This innovative construction technique guarantees a seamless and reliable bond.

At Gungnir Industry Ltd., we take great pride in our state-of-the-art production line, which incorporates leading German technology. Through fully automated and unmanned processes, we achieve unparalleled efficiency, enabling us to deliver products of unwavering quality and remarkable cost-effectiveness. With the utilization of the world's most advanced 5-axis CNC machines and our self-developed fully automatic welding equipment, we have the capacity to produce over 60,000 carbide burrs per day.

Thanks to the unwavering dedication and contributions of our team members, Gungnir Industry Ltd. has grown into a distinguished group company. Our carbide burrs have gained international recognition and are exported worldwide, with a strong presence in markets such as the European Union, North America, South America, and Oceania.

As we continue to uphold our commitment to superior craftsmanship and customer satisfaction, Gungnir Industry Ltd. remains at the forefront of the industry. We are dedicated to providing exceptional carbide burrs that consistently meet the highest standards of quality and performance.



国家高新技术企业



Our Business philosophy are as follows:

1. Be an enterprise with trust and respect
2. Be the World's biggest Rotary tool manufacturer
3. Bring valuable products and good reputation for each customer.

TECHNOLOGICAL PROCESS



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 STYLES 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					

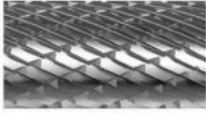
RECOMMENDED CUTTING SPEED 3									
METRIC (m/min)	420	480	540	600	660	720	780	840	900
FRACTIONAL (SFM)	1400	1600	1800	2000	2200	2400	2600	2800	3000

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	22,500	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 Gungnir industry Ltd. Customer Service to discuss your specific requirements.

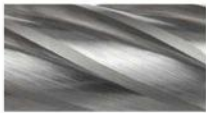
Stand Cut Types



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



Cut M - Standard cut for general applications

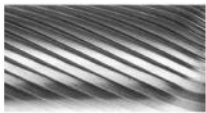


Cut W - Fast Mill cut for rapid stock removal of softer non-ferrous materials including plastics

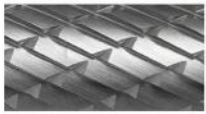
Special Cut Types



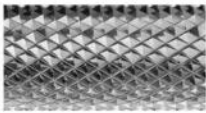
Cut C - Coarse cut for metal removal and finishing applications on non-ferrous metal alloys



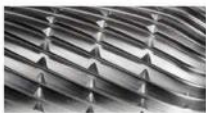
Cut F - Fine cut for improved finish on all ferrous metals



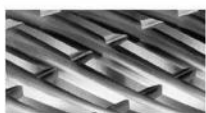
Cut ZX - Foundry cut for maximum stock removal, rough edges and foundry applications



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

Standard Cut Types

Special Cut Types

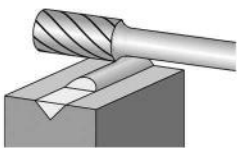
Material	Standard Cut Types			Special Cut Types					
	Cut MX	Cut M	Cut W	Cut C	Cut F	Cut ZX	Cut L	Cut MR	Cut SX
Aluminium, Plastic			●						
Brass, Copper, Cast Iron, Bronze	●	●		○	○	●	○	○	
Unhardened Steels	●	●			○	●	○		○
Hardened Steels	●	●			●	○	●	○	●
Hardened Steels, Stainless Steels, Nimonic Alloys, Titanium	●	●			●	○	●	○	

Recommended ○

Highly Recommended ●

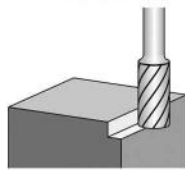


Cylinder Shape



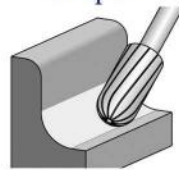
SA

Cylinder Shape With End Cut



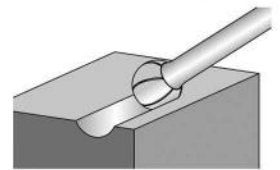
SB

Ball Nose Cylinder Shape



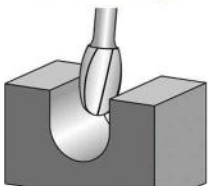
SC

Ball Shape



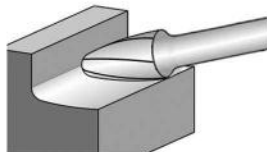
SD

Oval Shape



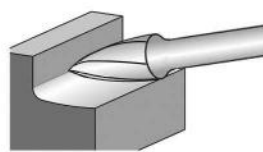
SE

Tree Shape



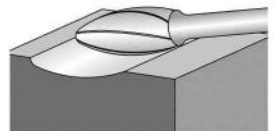
SF

Pointed Tree Shape



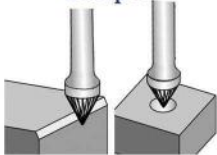
SG

Flame Shape



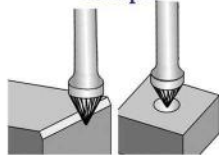
SH

60° Countersink Shape



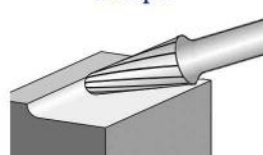
SJ

90° Countersink Shape



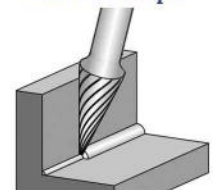
SK

Ball Nose Cone Shape



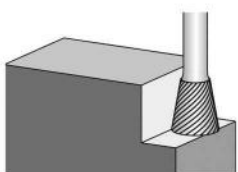
SL

Cone Shape



SM

Inverted Cone Shape



SN

ALL KINDS OF TOOTH SHAPE

APPLICABLE SCENARIOS





Features & Benefits - RADIUS LINE

FEATURES

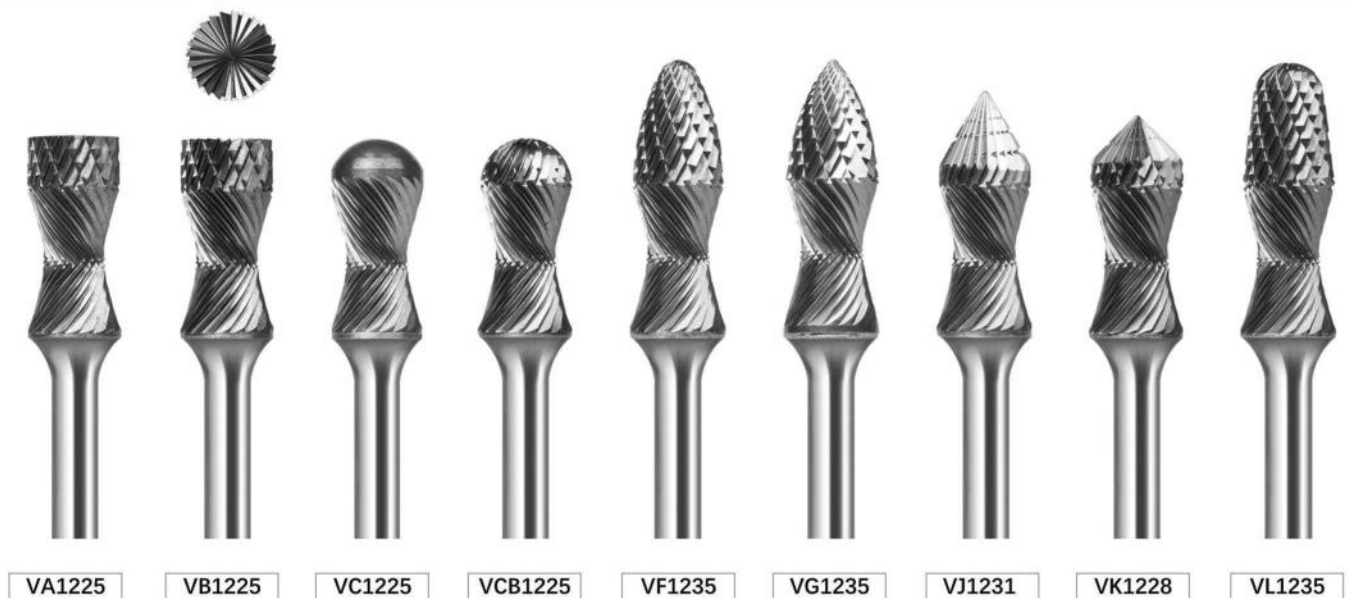
Unique guide system
Multi-application
Unique curve

BENEFITS

Easy control
Reduce downtime
Creates smooth radius

Radius Burs

Line	Description	Cut Diameter	Cut Length	Shank Diameter	Over Length
Radius Burs	VA-1225	12	25	6	70
Radius Burs	VB-1225	12	25	6	70
Radius Burs	VC-1225	12	25	6	70
Radius Burs	VCB-1225	12	25	6	70
Radius Burs	VF-1235	12	35	6	80
Radius Burs	VG-1235	12	35	6	80
Radius Burs	VJ-1231	12	31	6	76
Radius Burs	VK-1228	12	28	6	73
Radius Burs	VL-1235	12	35	6	80



Wear Hearing Protection!



Wear Eye Protection!



Obver the recommended rotational speed, especially when using burs with long shanks!

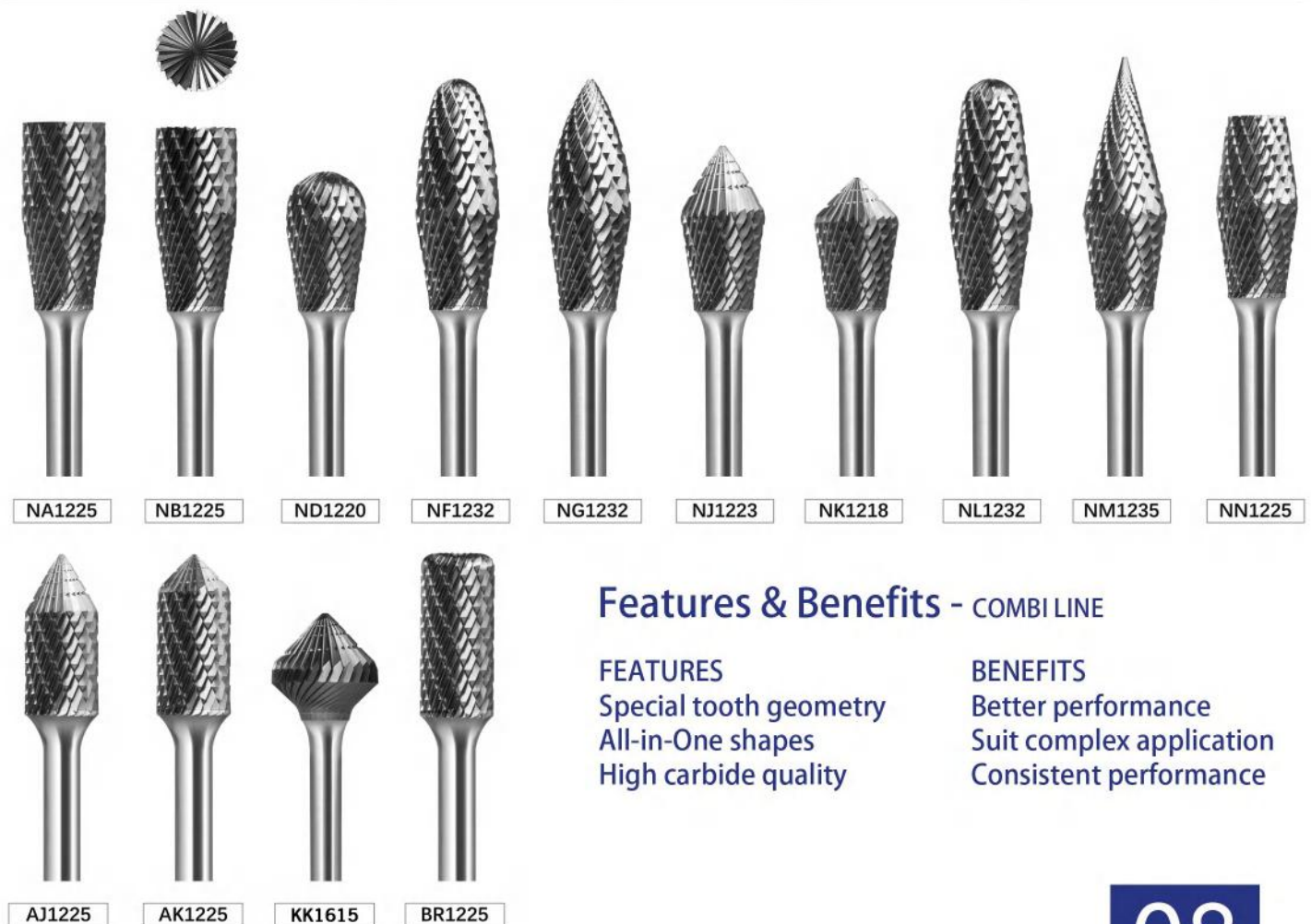


Wear Protective Gloves



Combi Burs

Line	Description	Cut Diameter	Cut Length	Shank Diameter	Over Length
Combi Burs	NA-1225	12	25	6	70
Combi Burs	NB-1225	12	25	6	70
Combi Burs	ND-1220	12	20	6	65
Combi Burs	NF-1232	12	32	6	77
Combi Burs	NG-1232	12	32	6	77
Combi Burs	NJ-1223	12	23	6	68
Combi Burs	NK-1218	12	18	6	63
Combi Burs	NL-1232	12	32	6	77
Combi Burs	NM-1235	12	35	6	80
Combi Burs	NN-1225	12	25	6	70
Combi Burs	AJ-1225	12	25	6	70
Combi Burs	AK-1225	12	25	6	70
Combi Burs	KK-1615	16	15	6	60
Combi Burs	BR-1225	12	25	6	70



Features & Benefits - COMBI LINE

FEATURES

- Special tooth geometry
- All-in-One shapes
- High carbide quality

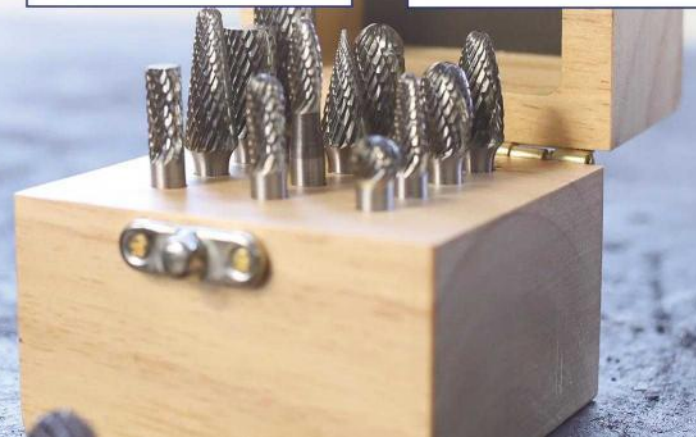
BENEFITS

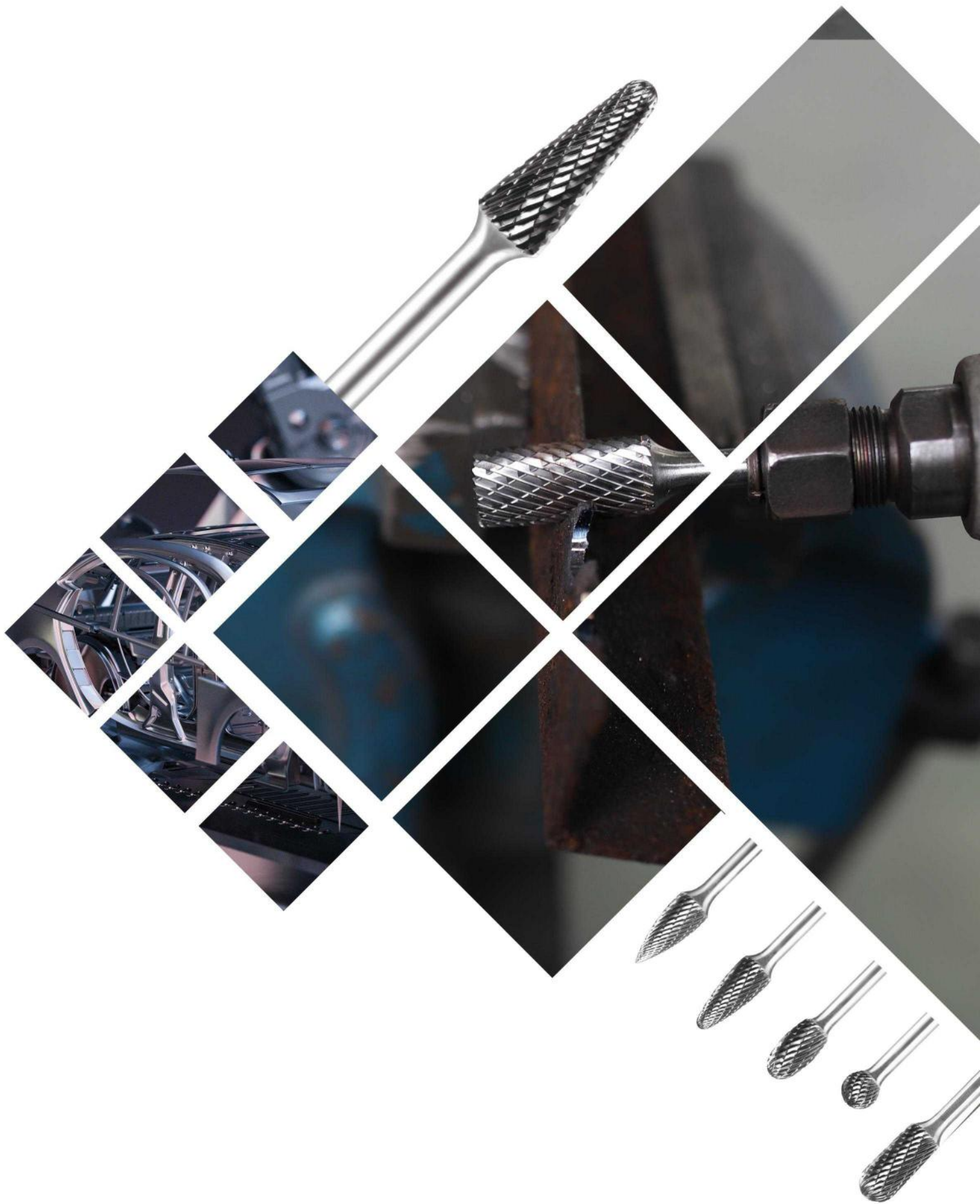
- Better performance
- Suit complex application
- Consistent performance

SERIES OF SETS

Carbide burr sets contain different sizes and shapes of burrs can match customer's different requirements on usage.

- 1、 6mm or 1/4" Shank 10PCS of Sets
- 2、 6mm or 1/4" Shank 5PCS of Sets
- 3、 6mm or 1/4" Shank 8PCS of Sets
- 4、 3mm Shank & 6mm Head 10PCS of Sets
- 5、 3mm Shank & 3mm Head 20PCS of Sets
- 6、 6mm or 1/4" Shank 12PCS of Sets



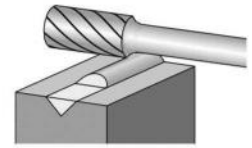
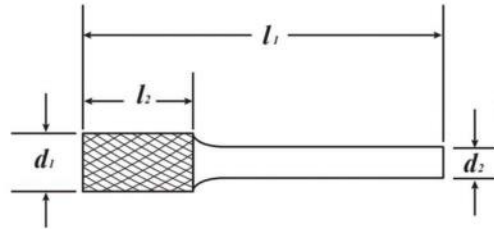




Type A Carbide Burr

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	65	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	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

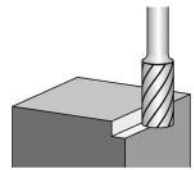
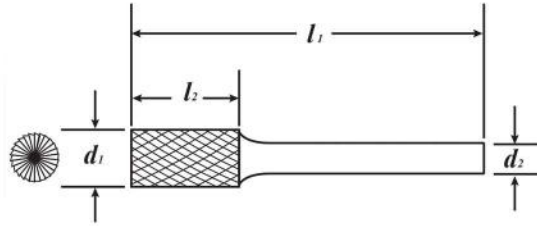
Inch Size						
Shank Diameter(In)	Cutter Diameter(d_1)	Length of Cut(l_2)	Shank Diameter(d_2)	Overall Length(l_1)	Tool No.	Type
1/8	1/8	1/2	1/8	1-1/2	SA-43	Solid
	1/4	1/2	1/8	2	SA-51	Brazed
1/4	1/4	5/8	1/4	2	SA-1	Solid
	1/4	5/8	1/4	2-3/8	SA-1	Brazed
	5/16	3/4	1/4	2-1/2	SA-2	Brazed
	3/8	3/4	1/4	2-1/2	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	65	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

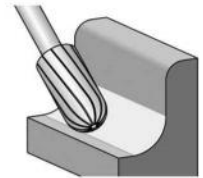
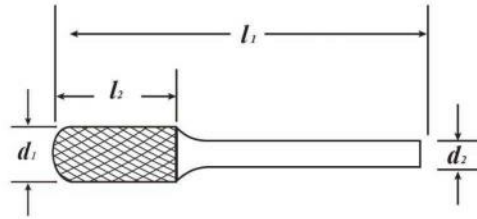
Inch Size						
Shank Diameter(In)	Cutter Diameter(d_1)	Length of Cut(l_2)	Shank Diameter(d_2)	Overall Length(l_1)	Tool No.	Type
1/8	1/8	1/2	1/8	1-1/2	SB-43	Solid
	1/4	1/2	1/8	2	SB-51	Brazed
1/4	1/4	5/8	1/4	2	SB-1	Solid
	1/4	5/8	1/4	2-3/8	SB-1	Brazed
	5/16	3/4	1/4	2-1/2	SB-2	Brazed
	3/8	3/4	1/4	2-1/2	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	65	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
8.0	20	25	8	70	SC82025	Brazed
	25	25	8	70	SC82525	Brazed

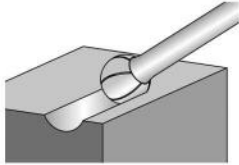
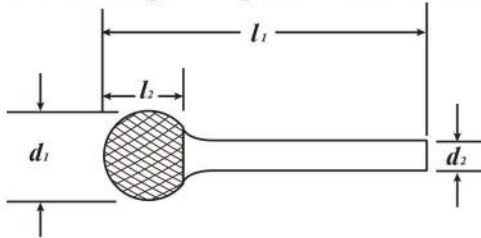
Inch Size						
Shank Diameter(In)	Cutter Diameter(d_1)	Length of Cut(l_2)	Shank Diameter(d_2)	Overall Length(l_1)	Tool No.	Type
1/8	1/8	1/2	1/8	1-1/2	SC-42	Solid
	1/4	1/2	1/8	2	SC-51	Brazed
1/4	1/4	5/8	1/4	2	SC-1	Solid
	1/4	5/8	1/4	2-3/8	SC-1	Brazed
	5/16	3/4	1/4	2-1/2	SC-2	Brazed
	3/8	3/4	1/4	2-1/2	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.



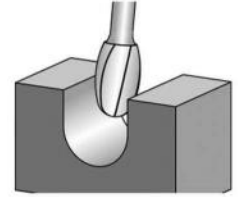
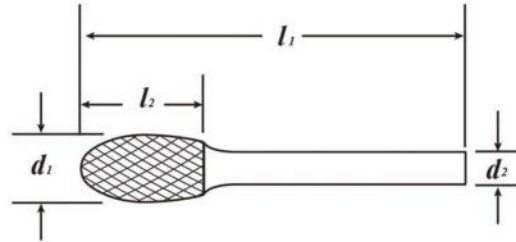
Metric Size						
Shank Diameter(mm)	Cutter Diameter(d_1)	Length of Cut(l_2)	Shank Diameter(d_2)	Overall Length(l_1)	Tool No.	Type
3.0	3	2	3	38	SD30302	Solid
	4	3	3	41	SD30403	Brazed
	5	4	3	42	SD30504	Brazed
	6	5	3	43	SD30605	Brazed
6.0	6	5	6	50	SD60605	Solid
	6	5	6	50	SD60605	Brazed
	8	7	6	52	SD60807	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(In)	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-42	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
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

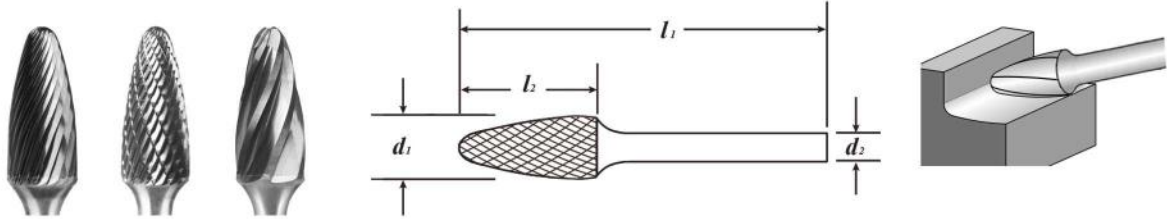
Inch Size						
Shank Diameter(In)	Cutter Diameter(d_1)	Length of Cut(l_2)	Shank Diameter(d_2)	Overall Length(l_1)	Tool No.	Type
1/8	1/8	1/4	1/8	1-1/2	SE-41	Solid
	1/4	3/8	1/8	1-8/9	SE-51	Brazed
1/4	1/4	3/8	1/4	2	SE-1	Solid
	1/4	3/8	1/4	2-1/8	SE-1	Brazed
	5/16	1/2	1/4	2-1/4	SE-2	Brazed
	3/8	5/8	1/4	2-3/8	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.



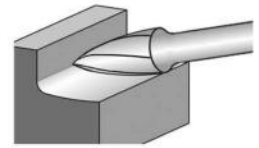
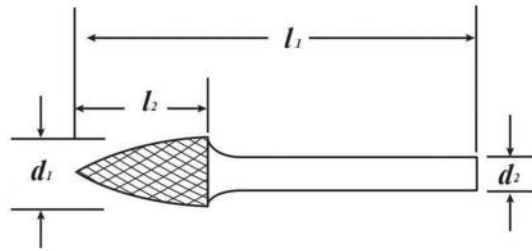
Metric Size						
Shank Diameter(mm)	Cutter Diameter(d ₁)	Length of Cut(l ₂)	Shank Diameter(d ₂)	Overall Length(l ₁)	Tool No.	Type
3.0	3	14	3	38	SF30314	Solid
	4	13	3	51	SF30413	Brazed
	5	13	3	51	SF30513	Brazed
	6	13	3	51	SF30613	Brazed
6.0	6	16	6	50	SF60616	Solid
	6	18	6	63	SF60618	Brazed
	8	20	6	65	SF60820	Brazed
	10	20	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
8.0	25	25	6	70	SF62525	Brazed
	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(In)	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.



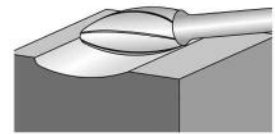
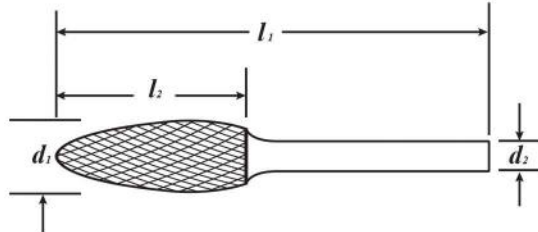
Metric Size						
Shank Diameter(mm)	Cutter Diameter(d_1)	Length of Cut(l_2)	Shank Diameter(d_2)	Overall Length(l_1)	Tool No.	Type
3.0	3	14	3	38	SG30314	Solid
	4	13	3	51	SG30413	Brazed
	5	13	3	51	SG30513	Brazed
	6	13	3	51	SG30613	Brazed
6.0	6	16	6	50	SG60616	Solid
	6	18	6	63	SG60618	Brazed
	8	20	6	65	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(In)	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	SG-51	Brazed
1/4	1/4	5/8	1/4	2	SG-1	Solid
	1/4	5/8	1/4	2-3/8	SG-1	Brazed
	5/16	3/4	1/4	2-1/2	SG-2	Brazed
	3/8	3/4	1/4	2-1/2	SG-3	Brazed
	1/2	1	1/4	2-3/4	SG-5	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



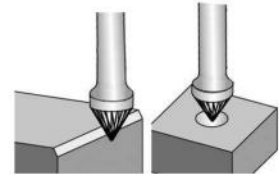
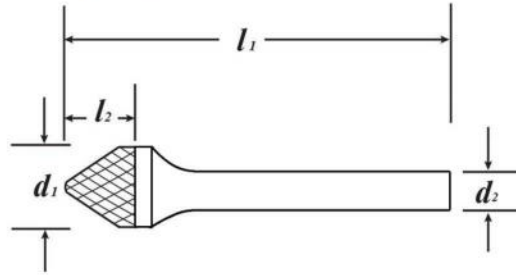
Metric Size						
Shank Diameter(mm)	Cutter Diameter(d_1)	Length of Cut(l_2)	Shank Diameter(d_2)	Overall Length(l_1)	Tool No.	Type
3.0	3	6	3	38	SH30306	Solid
	4	13	3	51	SH30413	Brazed
	5	13	3	51	SH30513	Brazed
	6	13	3	51	SH30613	Brazed
6.0	6	16	6	50	SH60616	Solid
	6	18	6	63	SH60618	Brazed
	8	20	6	65	SH60820	Brazed
	10	25	6	70	SH61025	Brazed
	12	32	6	77	SH61232	Brazed
	16	36	6	81	SH61636	Brazed
8.0	19	41	6	86	SH61941	Brazed
	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(In)	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-41	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	SH-3	Brazed
	1/2	1-1/4	1/4	3	SH-5	Brazed
	5/8	1-7/16	1/4	3-1/5	SH-6	Brazed
	3/4	1-5/8	1/4	3-3/8	SH-7	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
8.0	25	21	6	70	SJ62521	Brazed
	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

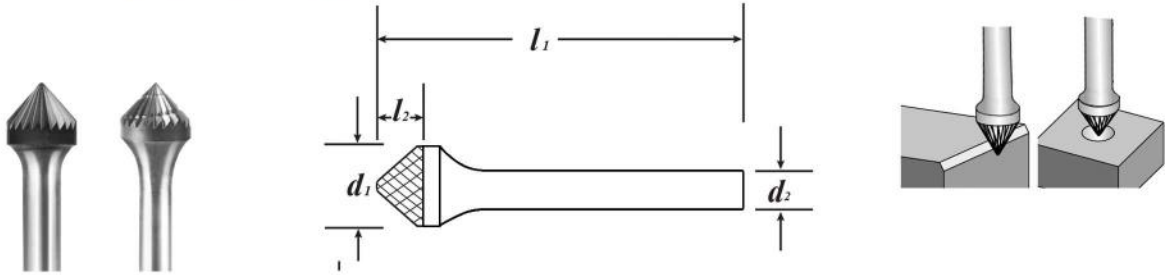
Inch Size						
Shank Diameter(In)	Cutter Diameter(d_1)	Length of Cut(l_2)	Shank Diameter(d_2)	Overall Length(l_1)	Tool No.	Type
1/8	1/8	3/32	1/8	1-1/2	SJ-42	Solid
1/4	1/4	3/16	1/4	2	SJ-1	Solid
	1/4	3/16	1/4	2	SJ-1	Brazed
	3/8	5/16	1/4	2-1/5	SJ-3	Brazed
	1/2	7/16	1/4	2-1/3	SJ-5	Brazed
	5/8	9/16	1/4	2-4/9	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



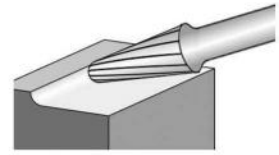
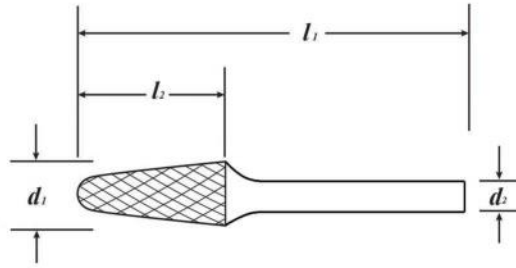
Metric Size						
Shank Diameter(mm)	Cutter Diameter(d_1)	Length of Cut(l_2)	Shank Diameter(d_2)	Overall Length(l_1)	Tool No.	Type
3.0	3	1.5	3	38	SK30315	Solid
6.0	6	3	6	50	SK60603	Solid
	6	3	6	50	SK60603	Brazed
	8	4	6	52	SK60804	Brazed
	10	5	6	53	SK61005	Brazed
	12	6	6	54	SK61206	Brazed
	16	8	6	57	SK61608	Brazed
	19	9	6	58	SK61909	Brazed
8.0	25	12	6	61	SK62512	Brazed
	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(In)	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
1/4	1/4	1/8	1/4	2	SK-1	Solid
	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



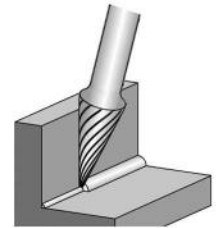
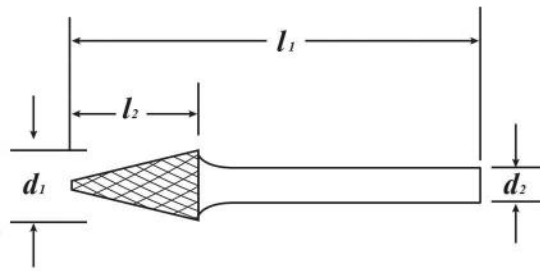
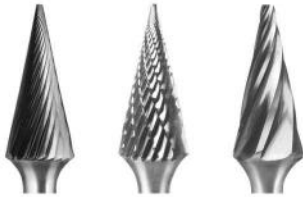
Metric Size						
Shank Diameter(mm)	Cutter Diameter(d_1)	Length of Cut(l_2)	Shank Diameter(d_2)	Overall Length(l_1)	Tool No.	Type
3.0	3	14	3	38	SL30314	Solid
	4	13	3	51	SL30413	Brazed
	5	13	3	51	SL30513	Brazed
	6	13	3	51	SL30613	Brazed
6.0	6	16	6	50	SL60616	Solid
	6	16	6	61	SL60616	Brazed
	8	22	6	67	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(In)	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



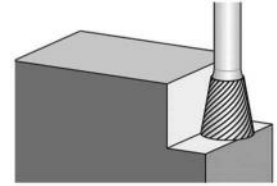
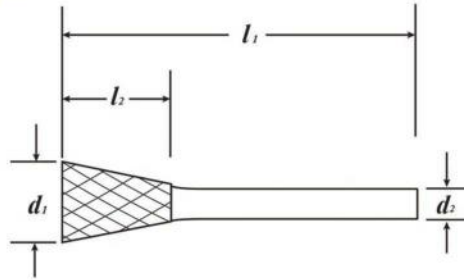
Metric Size						
Shank Diameter(mm)	Cutter Diameter(d_1)	Length of Cut(l_2)	Shank Diameter(d_2)	Overall Length(l_1)	Tool No.	Type
3.0	3	11	3	38	SM30311	Solid
	4	13	3	51	SM30413	Brazed
	5	13	3	51	SM30513	Brazed
	6	13	3	51	SM30613	Brazed
6.0	6	16	6	50	SM60616	Solid
	6	18	6	63	SM60618	Brazed
	8	20	6	65	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

Inch Size						
Shank Diameter(In)	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	SM-4	Brazed
	1/2	7/8	1/4	2-3/4	SM-5	Brazed
	5/8	1	1/4	2-8/9	SM-6	Brazed

Type N Carbide Burr

Burr Shape-Invertde 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(In)	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	1-3/4	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

PRODUCT APPLICATION SCENARIOS



Method of Application

Grinding with slowly rotating speed at start to keep the concentricity between shank and head are steady, unstable grinding and shaking during using will damage burrs fast.

Recommendation For Use

- Please choose the appropriate rotating speed according to recommendation before grinding

- Choosing suitable carbide burrs on shape, diameter and teeth type for different machining

- Please confirm the burr shank and chuck of die grinder be connected firmly before using

- Do not put too much pressure on burrs while grinding will causes higher temperature and shorten working life of burrs.

- Do not keep rotating when burrs are stucked in grooves or gaps of material

- Do not use burrs in a full of combustible gas enviroment

- Please wear glasses and gloves as protection before grinding

Application notes



Ear Protection



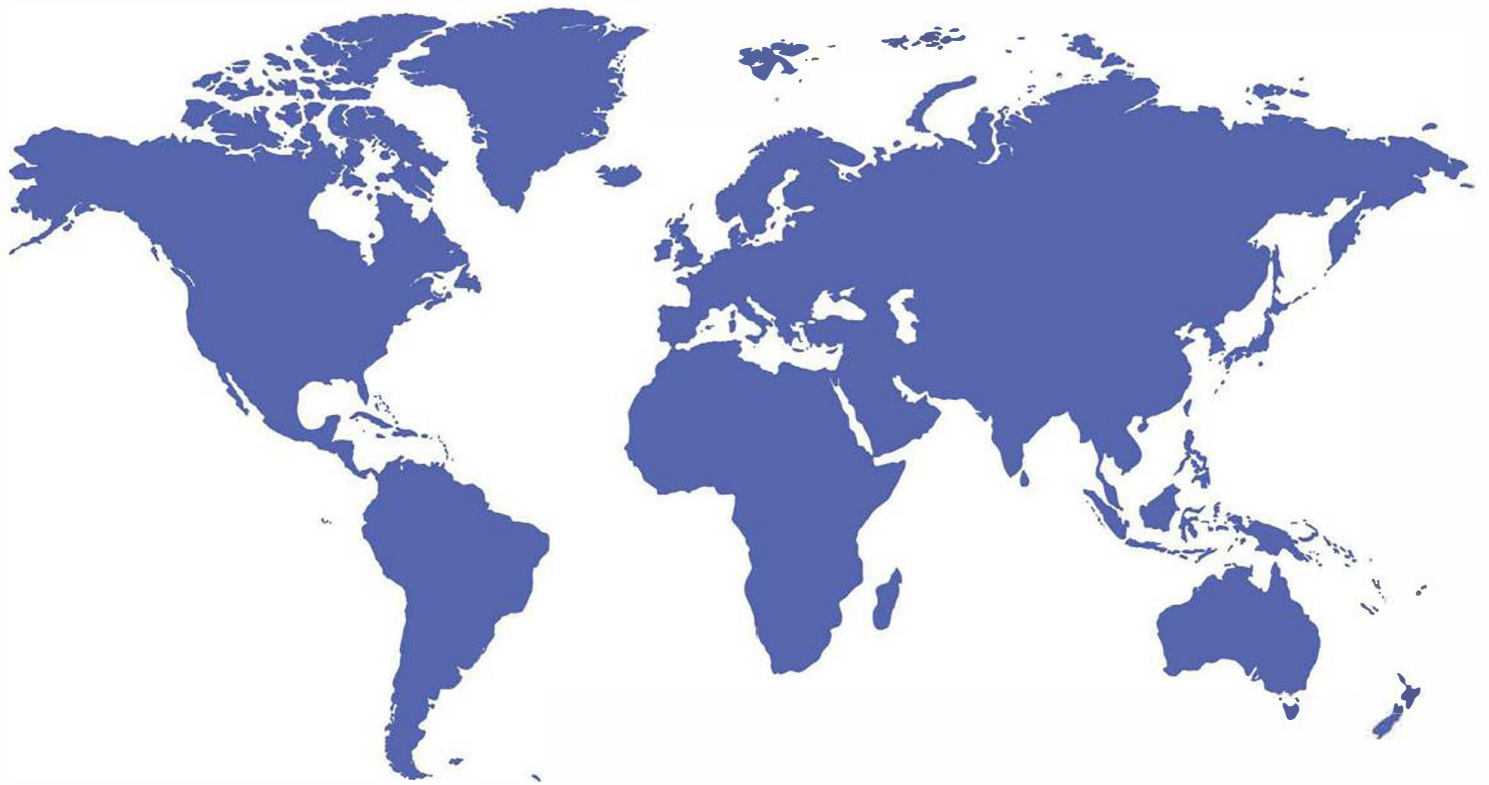
Face Mask



Safety Glasses



Protective Gloves



ALGUNNIR

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