

# SEAYAC

## PRODUCT CATALOGUE

### Tungsten Carbide Burr

#### Офис в Китае:

Anliwei (Shanghai) Business Consulting Co., Ltd.

г. Шанхай, Путоу, ул. Синцунь 2003-49

+86 132 622 56 081

#### Офис в России:

ООО Инструментальная компания

г. Уфа, Рихарда Зорге 63/6 офис 2

+7 917 413-91-92

[www.anliwei.ru](http://www.anliwei.ru) / [www.seayac.ru](http://www.seayac.ru)



+7 917 413-91-92; +86 132 6225 6081

[anliwei@sf-gc.com](mailto:anliwei@sf-gc.com)

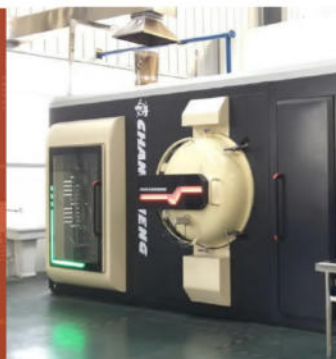
[www.anliwei.ru](http://www.anliwei.ru) / [www.seayac.ru](http://www.seayac.ru)



# TECHNOLOGY

## ◆ RAW MATERIAL

High purity and uniform particle size of WC and Co powder can get better quality and stability of mixed material, the microelement of TaC can let cemented carbide get better combination property, it also helps with welding. The aviation gasoline is more pure than regular gasoline with low impurity content. Tilting wet mill is convenient for loading and unloading materials, in order to obtain uniform particle size and fine mixed materials, the maximum ball grinding time can be up to 72 hours.



## ◆ CARBIDE BLANKS

HIP can make the cemented carbide obtain better internal structure and porosity. It has been proved that the physical and mechanical properties of cemented carbide sintered by HIP are far better than ordinary vacuum sintering.



## ◆ SEMI-FINISHED

Welding technology is one of the key factors of carbide burr quality, we use sandwich type silver welding material and automatic welding machine with infrared temperature control, control well the welding stress, stability and uniformity, refusing carbide blanks serious oxidation, keeping the steel shank after welding without significant change in hardness.



## ◆ FINISHED

The third-generation five-axis automatic CNC grinders for carbide burr with better precision control, we control well the angle of the cutting teeth, whole axial run-out, surface perfection and the consistency for each piece of carbide burr.



# QUALITY

## ◆ RAW MATERIAL QC

Each batch of material must pass through the vibrating screen, strictly control the possible uneven particles or impurities, make sure that the particle size of each batch of materials is uniform, to get the fine material everytime.



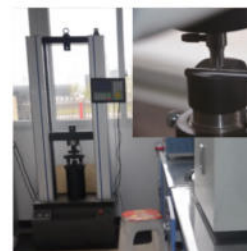
## ◆ BLANKS QC

We make sample piece for each batch of raw material, after monitoring and analysis of the sample piece, we obtained various performance parameters of this batch of raw materials, includes its density, hardness, bending strength, porosity, metallographic structure, magnetic saturation, etc., and the corresponding data will be recorded, be numbered and be archived, the retroactive period is 18 months.



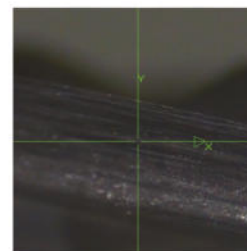
## ◆ SEMI-FINISHED QC

Inspecting the hardness of the steel shank after welding and weld strength, especially in the development of more advanced welding technology, decision based on data not just speculation.



## ◆ FINISHED QC

The tooth shape structure and angle of carbide tools will be checked by the quadratic element image measuring instrument, make sure the edge of tooth is sharp without visibly jaggy.



# » STANDARD CUTS



**M** Standard cut for general applications.



**X** Double cut for general purpose use. Improves control and reduces chips.



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



**F** Fine cut for improved finish on all ferrous metals.

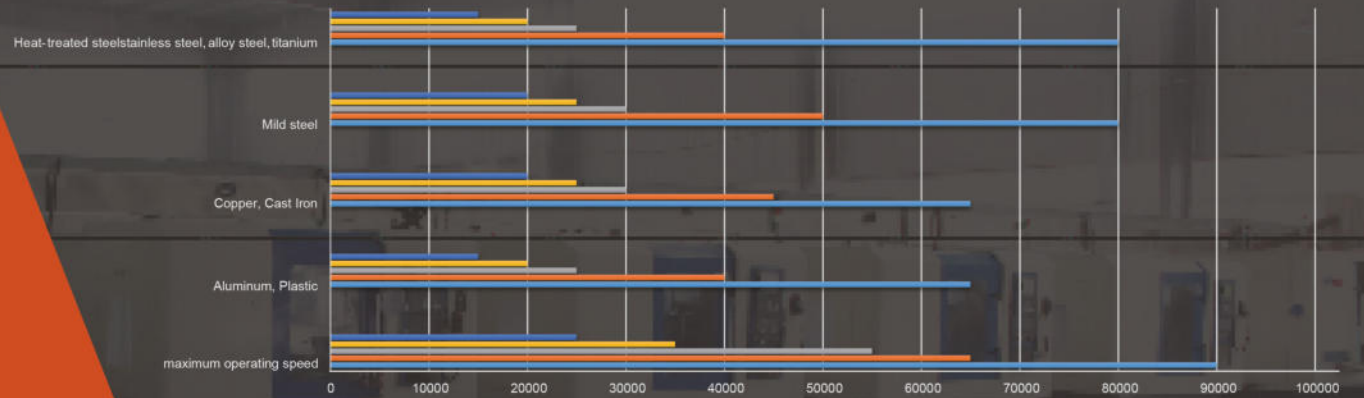


**C** Coarse cut for metal removal and finishing applications on non-ferrous.

# » CUT SELECTION GUIDE

Processed Materials	Standard Cut Types			
	STANDARD CUT (M)	STANDARD DOUBLECUT (X)	WIDECUT (C)	FINEDOUBLECUT (F)
Aluminum, Plastic				●
Brass, Copper, Cast Iron, Bronze	●	●		
Unhardened Steel	●	●		
Hardened Steel, Stainless Steels, Nimonic Alloys, Titanium	●	●		

# » ROTATE SPEED GUIDANCE

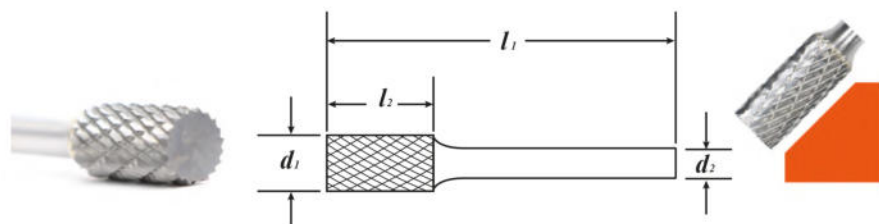


Burr head diameter (mm/in)	maximum operating speed	Aluminum, Plastic		Copper, Cast Iron		Mild steel		Heat-treated steel/stainless steel, alloy steel, titanium	
		Usable range	Recommended starting speed	Usable range	Recommended starting speed	Usable range	Recommended starting speed	Usable range	Recommended starting speed
Burr head diameter (rpm/min) 16mm (5/8")	25000	6000-20000	15000	9000-20000	20000	18000-20000	20000	12000-18000	15000
Burr head diameter (rpm/min) 12mm (1/2")	35000	7000-30000	20000	11000-30000	25000	22500-30000	25000	15000-22500	20000
Burr head diameter (rpm/min) 10mm (3/8")	55000	10000-50000	25000	15000-40000	30000	30000-40000	30000	18000-30000	25000
Burr head diameter (rpm/min) 6mm (1/4")	65000	15000-60000	40000	22500-60000	45000	45000-60000	50000	30000-45000	40000
Burr head diameter (rpm/min) 3mm (1/8")	90000	60000-80000	65000	45000-80000	65000	60000-80000	80000	60000-80000	80000

■ Burr head diameter (rpm/min) 3mm (1/8")
 ■ Burr head diameter (rpm/min) 6mm (1/4")
 ■ Burr head diameter (rpm/min) 10mm (3/8")
 ■ Burr head diameter (rpm/min) 12mm (1/2")
 ■ Burr head diameter (rpm/min) 16mm (5/8")

## Type A Carbide Burr

» Burr Shape - Cylinder Without End Cut  
Type A carbide burr is suitable for machining surface profile of workpiece.

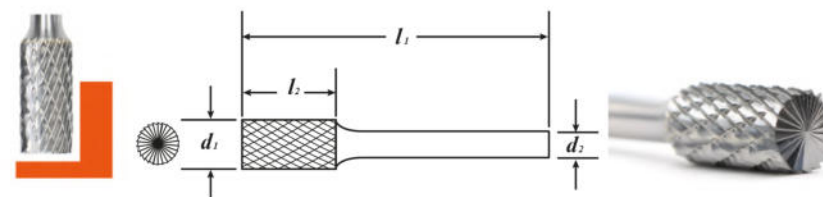


Metric Size						
Shank Diameter (mm)	Cutter Diameter(d1)	Length of Cut(L2)	Shank Diameter(d2)	Overall Length(L1)	Tool No.	Type
3.0	1.5	6.0	3.0	38.0	A1506	Solid
	2.0	11.0	3.0	38.0	A0211	Solid
	2.5	12.0	3.0	38.0	A2512	Solid
	3.0	13.0	3.0	38.0	A0313	Solid
	4.0	13.0	3.0	51.0	A0413	Brazed
	5.0	13.0	3.0	51.0	A0513	Brazed
	6.0	13.0	3.0	51.0	A0613	Brazed
	6.0	16.0	6.0	61.0	A0616	Brazed
6.0	6.0	25.0	6.0	50.0	A0625	Solid
	8.0	20.0	6.0	65.0	A0820	Brazed
	10.0	20.0	6.0	65.0	A1020	Brazed
	11.0	25.0	6.0	70.0	A1125	Brazed
	12.0	25.0	6.0	70.0	A1225	Brazed
	16.0	25.0	6.0	70.0	A1625	Brazed
	19.0	25.0	6.0	70.0	A1925	Brazed
	25.0	25.0	6.0	70.0	A2525	Brazed
8.0	12.0	25.0	8.0	70.0	A1225	Brazed
	16.0	25.0	8.0	70.0	A1625	Brazed
	19.0	25.0	8.0	70.0	A1925	Brazed
	25.0	25.0	8.0	70.0	A2525	Brazed

Inch Size						
Shank Diameter (in)	Cutter Diameter(d1)	Length of Cut(L2)	Shank Diameter(d2)	Overall Length(L1)	Tool No.	Type
1/8	1/16	1/4	1/8	1-1/2	SA-41	Solid
	3/32	3/8	1/8	1-1/2	SA-63	Solid
	1/8	1/2	1/8	1-1/2	SA-11	Solid
	3/16	1/2	1/8	2	SA-81	Brazed
1/4	1/4	1/2	1/4	2	SA-51	Solid
	1/5	5/8	1/4	2	SA-1	Brazed
	1/6	1	1/4	2	SA-1L	Solid
	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	3-1/4	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	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.

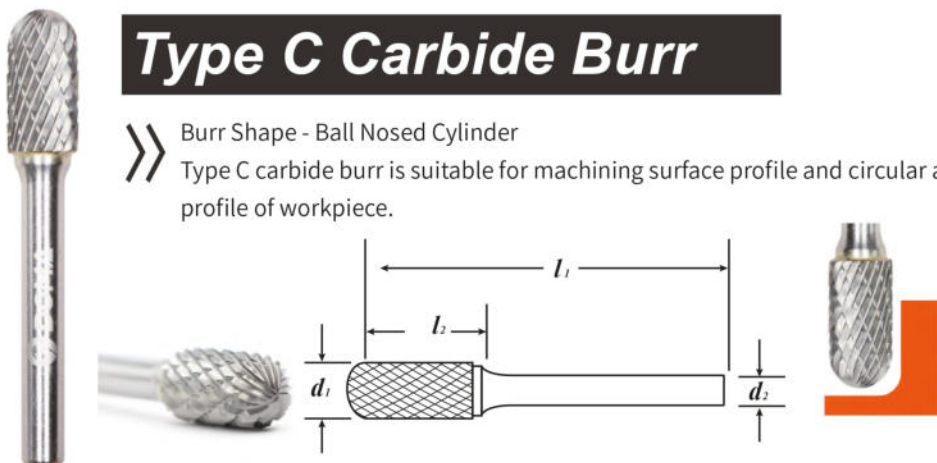


Metric Size						
Shank Diameter (mm)	Cutter Diameter(d1)	Length of Cut(L2)	Shank Diameter(d2)	Overall Length(L1)	Tool No.	Type
3.0	1.5	6.0	3.0	38	B1506	Solid
	2.0	11.0	3.0	38	B0211	Solid
	2.5	12.0	3.0	38	B2512	Solid
	3.0	13.0	3.0	38	B0314	Solid
	4.0	13.0	3.0	51	B0413	Brazed
	5.0	13.0	3.0	51	B0513	Brazed
	6.0	13.0	3.0	51	B0513	Brazed
	6.0	16.0	6.0	51	B0618	Brazed
	6.0	25.0	6.0	50	B0625	Solid
	8.0	20.0	6.0	65	B0820	Brazed
6.0	10.0	20.0	6.0	65	B1020	Brazed
	11.0	25.0	6.0	70	B1125	Brazed
	12.0	25.0	6.0	70	B1225	Brazed
	16.0	25.0	6.0	70	B1625	Brazed
	19.0	25.0	6.0	70	B1925	Brazed
	25.0	25.0	6.0	70	B2525	Brazed
	12.0	25.0	8.0	70	B1225	Brazed
	16.0	25.0	8.0	70	B1625	Brazed
8.0	19.0	25.0	8.0	70	B1925	Brazed
	25.0	25.0	8.0	70	B2525	Brazed

Inch Size						
Shank Diameter (in)	Cutter Diameter(d1)	Length of Cut(L2)	Shank Diameter(d2)	Overall Length(L1)	Tool No.	Type
3/8	7/8	1	3/8	2-3/4	*SB-8	Brazed
1/8	1/16	1/4	1/8	1-1/2	SB-41	Solid
	1/8	9/16	1/8	1-1/2	SB-43	Solid
1/4	5/32	5/8	1/4	2	SB-13	Solid
	3/16	5/8	1/4	2	SB-14	Solid
	1/4	5/8	1/4	2	SB-1	Solid
	1/4	1	1/4	2	SB-1L	Solid
	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
	1	1	1	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.

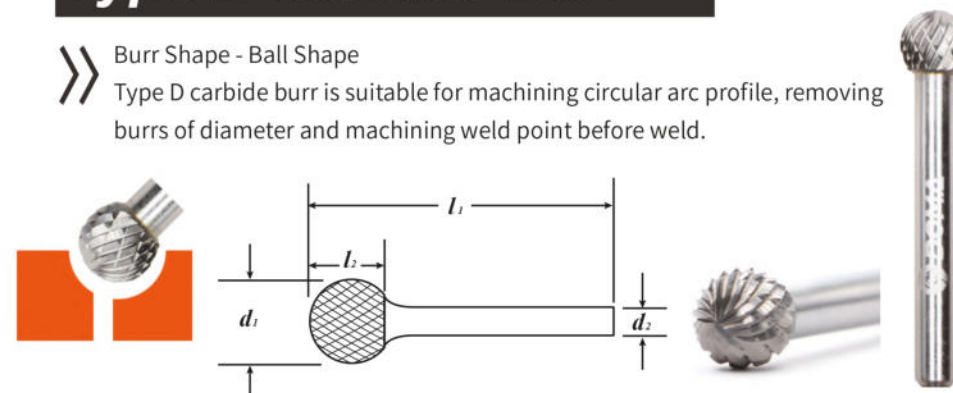


Metric Size						
Shank Diameter (mm)	Cutter Diameter(d <sub>1</sub> )	Length of Cut(l <sub>2</sub> )	Shank Diameter(d <sub>2</sub> )	Overall Length(l <sub>1</sub> )	Tool No.	Type
3.0	2.0	11.0	3.0	38.0	C0211	Solid
	2.5	11.0	3.0	38.0	C2511	Solid
	3.0	13.0	3.0	38.0	C0313	Solid
	5.0	13.0	3.0	38.0	C0513	Brazed
	6.0	13.0	3.0	45.0	C0613	Brazed
	6.0	16.0	6.0	51.0	C0616	Brazed
	6.0	25.0	6.0	50.0	C0625	Solid
6.0	8.0	20.0	6.0	65.0	C0820	Brazed
	10.0	20.0	6.0	65.0	C1020	Brazed
	11.0	25.0	6.0	70.0	C1125	Brazed
	12.0	25.0	6.0	70.0	C1225	Brazed
	16.0	25.0	6.0	70.0	C1625	Brazed
	19.0	25.0	6.0	70.0	C1925	Brazed
	25.0	25.0	6.0	70.0	C2525	Brazed
8.0	12.0	25.0	8.0	70.0	C1225	Brazed
	16.0	25.0	8.0	70.0	C1625	Brazed
	19.0	25.0	8.0	70.0	C1925	Brazed
	25.0	25.0	8.0	70.0	C2525	Brazed
	25.0	25.0	8.0	70.0	C2525	Brazed

Inch Size							
Shank Diameter (in)	Cutter Diameter(d <sub>1</sub> )	Length of Cut(l <sub>2</sub> )	Shank Diameter(d <sub>2</sub> )	Overall Length(l <sub>1</sub> )	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	
	3/16	9/32	1/4	2	SC-14	Solid	
	1/4	5/8	1/4	2	SC-1	Solid	
	1/4	1	1/4	2	SC-1L	Solid	
	5/16	3/4	1/4	2-1/2	SC-2	Brazed	
	3/8	3/4	1/4	2-1/2	SC-3	Brazed	
1/4	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	
	3/8	1	1	3/8	2-3/4	*SC-9	Brazed
	3/8	1	1	3/8	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.



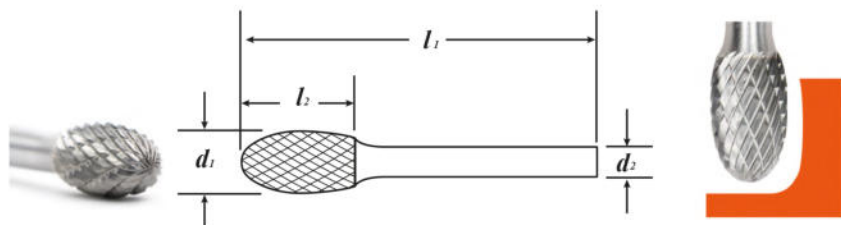
Metric Size						
Shank Diameter (mm)	Cutter Diameter(d <sub>1</sub> )	Length of Cut(l <sub>2</sub> )	Shank Diameter(d <sub>2</sub> )	Overall Length(l <sub>1</sub> )	Tool No.	Type
3.0	2.0	1.8	3.0	38.0	D0202	Solid
	2.5	2.3	3.0	38.0	D2525	Solid
	3.0	2.5	3.0	38.0	D0325	Solid
	4.0	3.0	3.0	41.0	D0403	Brazed
	5.0	4.0	3.0	42.0	D0504	Brazed
	6.0	5.0	3.0	43.0	D0605	Brazed
	6.0	5.0	6.0	50.0	D0605	Brazed
6.0	8.0	7.0	6.0	52.0	D0807	Brazed
	10.0	9.0	6.0	54.0	D1009	Brazed
	12.0	10.0	6.0	55.0	D1210	Brazed
	16.0	14.0	6.0	59.0	D1614	Brazed
	19.0	18.0	6.0	63.0	D1918	Brazed
	25.0	21.0	6.0	66.0	D2521	Brazed
	12.0	10.0	8.0	56.0	D1210	Brazed
8.0	16.0	14.0	8.0	59.0	D1614	Brazed
	19.0	18.0	8.0	63.0	D1918	Brazed
	25.0	21.0	8.0	66.0	D2521	Brazed

Inch Size						
Shank Diameter (in)	Cutter Diameter(d <sub>1</sub> )	Length of Cut(l <sub>2</sub> )	Shank Diameter(d <sub>2</sub> )	Overall Length(l <sub>1</sub> )	Tool No.	Type
1/8	1/8	1/8	1/8	1-1/2	SD-42	Solid
	3/16	5/32	1/8	1-1/2	SD-53	Brazed
	1/4	7/32	1/8	1-3/4	SD-51	Brazed
	3/16	1/8	1/4	2	SD-14	Solid
	1/4	7/32	1/4	2.0	SD-1	Solid
1/4	5/16	1/4	1/4	2.0	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
	1	15/16	1/4	2/3	*SD-9	Brazed

## Type E Carbide Burr

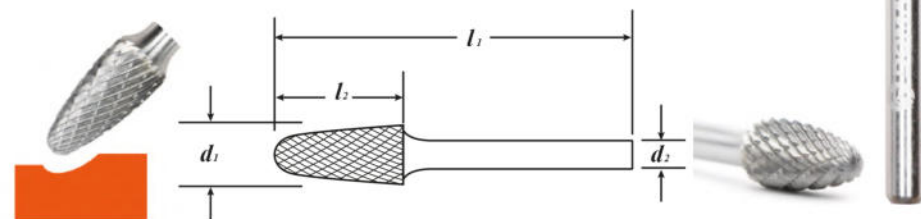


- » Burr Shape - Oval Shape
- » Type E carbide burr is suitable for machining circular arc profile of workpiece.



## 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 <sub>1</sub> )	Length of Cut(l <sub>2</sub> )	Shank Diameter(d <sub>2</sub> )	Overall Length(l <sub>1</sub> )	Tool No.	Type
3.0	3.0	7.0	3.0	38.0	E0306	Solid
	5.0	8.0	3.0	46.0	E0508	Brazed
	6.0	10.0	3.0	48.0	E0610	Brazed
6.0	6.0	10.0	6.0	50.0	E0610	Brazed
	8.0	13.0	6.0	58.0	E0813	Brazed
	10.0	16.0	6.0	61.0	E1016	Brazed
	12.0	20.0	6.0	65.0	E1220	Brazed
	16.0	25.0	6.0	70.0	E1625	Brazed
	19.0	25.0	6.0	70.0	E1925	Brazed
8.0	12.0	20.0	8.0	65.0	E1220	Brazed
	16.0	25.0	8.0	70.0	E1625	Brazed
	19.0	25.0	8.0	70.0	E1925	Brazed

**Metric Size**

Shank Diameter (mm)	Cutter Diameter(d <sub>1</sub> )	Length of Cut(l <sub>2</sub> )	Shank Diameter(d <sub>2</sub> )	Overall Length(l <sub>1</sub> )	Tool No.	Type
3.0	3.0	13.0	3.0	38.0	F0313	Solid
	5.0	13.0	3.0	51.0	F0513	Brazed
	6.0	13.0	3.0	51.0	F0613	Brazed
6.0	6.0	18.0	6.0	63.0	F0618	Brazed
	8.0	20.0	6.0	65.0	F0820	Brazed
	10.0	20.0	6.0	65.0	F1020	Brazed
	11.0	25.0	6.0	70.0	F1125	Brazed
	12.0	25.0	6.0	70.0	F1225	Brazed
	16.0	25.0	6.0	70.0	F1625	Brazed
	19.0	25.0	6.0	70.0	F1925	Brazed
	12.0	25.0	8.0	70.0	F1225	Brazed
8.0	16.0	25.0	8.0	70.0	F1625	Brazed
	19.0	25.0	8.0	70.0	F1925	Brazed

**Inch Size**

Shank Diameter (in)	Cutter Diameter(d <sub>1</sub> )	Length of Cut(l <sub>2</sub> )	Shank Diameter(d <sub>2</sub> )	Overall Length(l <sub>1</sub> )	Tool No.	Type
1/8	3/16	9/32	1/8	1-1/2	SE-53	Solid
	1/4	3/8	1/8	1-8/9	SE-51	Brazed
1/4	1/4	3/8	1/4	64.05mm	SE-1	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

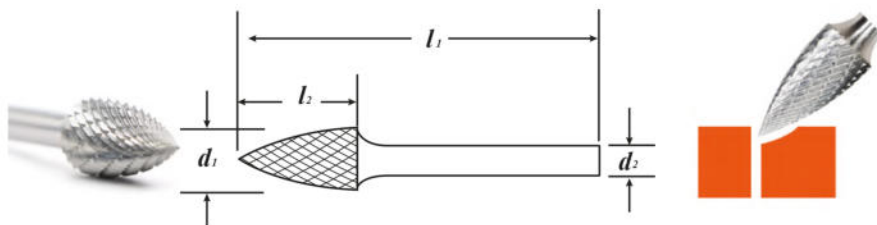
**Inch Size**

Shank Diameter (in)	Cutter Diameter(d <sub>1</sub> )	Length of Cut(l <sub>2</sub> )	Shank Diameter(d <sub>2</sub> )	Overall Length(l <sub>1</sub> )	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	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	3/4	1/4	2-1/2	SF-13	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
3/8	3/4	1-1/4	3/8	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.

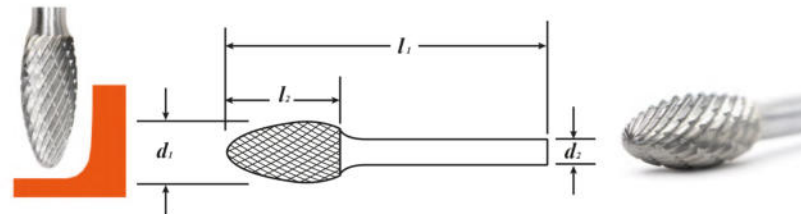


Metric Size						
Shank Diameter (mm)	Cutter Diameter(d <sub>1</sub> )	Length of Cut(l <sub>2</sub> )	Shank Diameter(d <sub>2</sub> )	Overall Length(l <sub>1</sub> )	Tool No.	Type
3.0	3.0	13.0	3.0	38.0	G0313	Solid
	5.0	13.0	3.0	51.0	G0513	Brazed
	6.0	13.0	3.0	51.0	G0613	Brazed
6.0	6.0	18.0	6.0	63.0	G0618	Brazed
	8.0	20.0	6.0	65.0	G0820	Brazed
	10.0	20.0	6.0	65.0	G1020	Brazed
	12.0	25.0	6.0	70.0	G1225	Brazed
	16.0	25.0	6.0	70.0	G1625	Brazed
8.0	19.0	25.0	6.0	70.0	G1925	Brazed
	12.0	25.0	8.0	70.0	G1225	Brazed
	16.0	25.0	8.0	70.0	G1625	Brazed
	19.0	25.0	8.0	70.0	G1925	Brazed

Inch Size						
Shank Diameter (in)	Cutter Diameter(d <sub>1</sub> )	Length of Cut(l <sub>2</sub> )	Shank Diameter(d <sub>2</sub> )	Overall Length(l <sub>1</sub> )	Tool No.	Type
1/8	1/8	1/2	1/8	1-1/2	SG-44	Solid
	1/4	1/2	1/8	57.7mm	SG-51	Brazed
1/4	5/16	3/4	1/4	2-1/2	SG2	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.



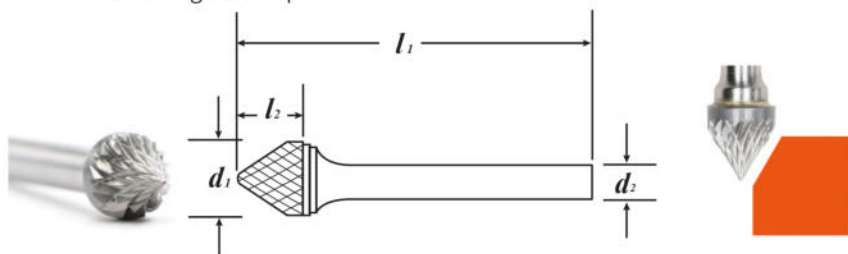
Metric Size						
Shank Diameter (mm)	Cutter Diameter(d <sub>1</sub> )	Length of Cut(l <sub>2</sub> )	Shank Diameter(d <sub>2</sub> )	Overall Length(l <sub>1</sub> )	Tool No.	Type
3.0	3.0	13.0	3.0	38.0	H0313	Solid
	5.0	13.0	3.0	51.0	H0513	Brazed
	6.0	13.0	3.0	51.0	H0613	Brazed
6.0	6.0	18.0	6.0	63.0	H0618	Brazed
	8.0	20.0	6.0	65.0	H0820	Brazed
	10.0	25.0	6.0	70.0	H1025	Brazed
	12.0	32.0	6.0	77.0	H1232	Brazed
	16.0	36.0	6.0	81.0	H1636	Brazed
8.0	19.0	41.0	6.0	86.0	H1941	Brazed
	12.0	32.0	8.0	77.0	H1232	Brazed
	16.0	36.0	8.0	81.0	H1636	Brazed
	19.0	41.0	8.0	86.0	H1941	Brazed

Inch Size						
Shank Diameter (in)	Cutter Diameter(d <sub>1</sub> )	Length of Cut(l <sub>2</sub> )	Shank Diameter(d <sub>2</sub> )	Overall Length(l <sub>1</sub> )	Tool No.	Type
1/8	1/8	1/4	1/8	1-1/2	SH-41	Solid
1/4	1/4	5/7	1/4	2	SH-1	Solid
	5/16	3/4	1/4	2-1/2	SH2	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 and chamfering of workpiece.

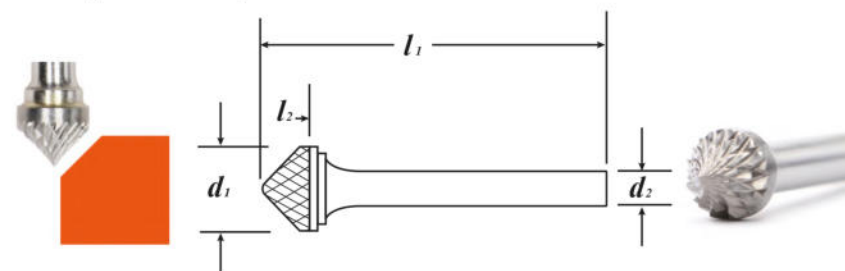


Metric Size						
Shank Diameter (mm)	Cutter Diameter(d <sub>1</sub> )	Length of Cut(l <sub>2</sub> )	Shank Diameter(d <sub>2</sub> )	Overall Length(l <sub>1</sub> )	Tool No.	Type
3.0	3.0	2.5	3.0	38.0	J30325	Solid
	6.0	7.0	6.0	52.0	J0607	Brazed
	8.0	9.0	6.0	54.0	J0809	Brazed
6.0	10.0	11.0	6.0	56.0	J1011	Brazed
	12.0	13.0	6.0	58.0	J1213	Brazed
	16.0	18.0	6.0	63.0	J1618	Brazed
	19.0	20.0	6.0	65.0	J1920	Brazed
	25.0	25.0	6.0	70.0	J2525	Brazed
	12.0	11.0	8.0	56.0	J1211	Brazed
8.0	16.0	18.0	8.0	63.0	J1618	Brazed
	19.0	20.0	8.0	65.0	J1920	Brazed
	25.0	25.0	8.0	70.0	J2525	Brazed

Inch Size						
Shank Diameter (in)	Cutter Diameter(d <sub>1</sub> )	Length of Cut(l <sub>2</sub> )	Shank Diameter(d <sub>2</sub> )	Overall Length(l <sub>1</sub> )	Tool No.	Type
1/8	1/8	3/32	1/8	1-1/2	SJ-42	Solid
	1/4	3/16	1/4	2	SJ-1	Solid
1/4	3/8	7/16	1/4	2-1/5	SJ-3	Brazed
	1/2	35/64	1/4	2-1/3	SJ-5	Brazed
	5/8	11/16	1/4	2-4/9	*SJ-6	Brazed
	3/4	51/64	1/4	2-5/9	*SJ-7	Brazed

## Type K 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 <sub>1</sub> )	Length of Cut(l <sub>2</sub> )	Shank Diameter(d <sub>2</sub> )	Overall Length(l <sub>1</sub> )	Tool No.	Type
3.0	3.0	2.0	3.0	38.0	K0302	Solid
	6.0	3.0	6.0	48.0	K0603	Brazed
	8.0	4.0	6.0	52.0	K0804	Brazed
6.0	10.0	5.0	6.0	53.0	K1005	Brazed
	12.0	6.0	6.0	54.0	K1206	Brazed
	16.0	8.0	6.0	57.0	K1608	Brazed
	19.0	9.0	6.0	58.0	K1909	Brazed
	25.0	12.0	6.0	61.0	K2512	Brazed
	12.0	6.0	8.0	54.0	K1206	Brazed
8.0	16.0	8.0	8.0	57.0	K1608	Brazed
	19.0	9.0	8.0	58.0	K1909	Brazed
	25.0	12.0	8.0	61.0	K2512	Brazed

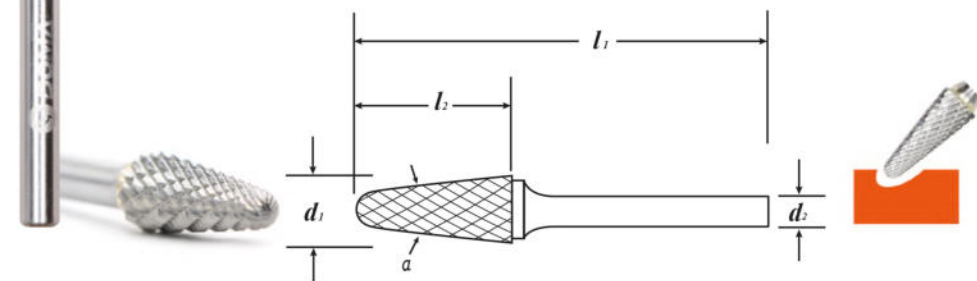
Inch Size						
Shank Diameter (in)	Cutter Diameter(d <sub>1</sub> )	Length of Cut(l <sub>2</sub> )	Shank Diameter(d <sub>2</sub> )	Overall Length(l <sub>1</sub> )	Tool No.	Type
1/8	1/8	1/16	1/8	1-1/2	SK-42	Solid
	1/4	1/8	1/4	2	SK-1	Solid
1/4	3/8	3/16	1/4	2-1/16	SK-3	Brazed
	1/2	1/4	1/4	2-1/9	SK-5	Brazed
	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.



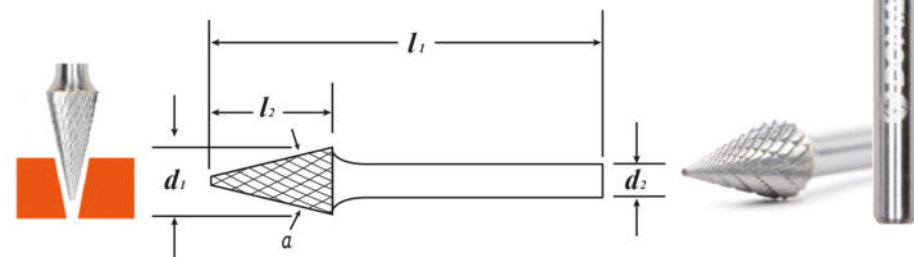
Metric Size							
Shank Diameter (mm)	Cutter Diameter(d <sub>1</sub> )	Length of Cut(l <sub>2</sub> )	Shank Diameter(d <sub>2</sub> )	Overall Length(l <sub>1</sub> )	Included Angle a	Tool No.	Type
3.0	3.0	13.0	3.0	38.0	8°	L0313	Solid
	5.0	13.0	3.0	38.0	10°	L0513	Brazed
	6.0	13.0	3.0	48.0	10°	L0613	Brazed
6.0	6.0	16.0	6.0	51.0	14°	L0616	Brazed
	8.0	22.0	6.0	70.0	14°	L08254	Brazed
	10.0	25.0	6.0	70.0	14°	L1025	Brazed
	12.0	28.0	6.0	73.0	14°	L1228	Brazed
	16.0	33.0	6.0	78.0	14°	L1633	Brazed
	19.0	38.0	6.0	83.0	14°	L1938	Brazed
8.0	12.0	28.0	8.0	73.0	14°	L1228	Brazed
	16.0	33.0	8.0	78.0	14°	L1633	Brazed
	19.0	38.0	8.0	83.0	14°	L1938	Brazed

Inch Size							
Shank Diameter (in)	Cutter Diameter(d <sub>1</sub> )	Length of Cut(l <sub>2</sub> )	Shank Diameter(d <sub>2</sub> )	Overall Length(l <sub>1</sub> )	Included Angle a	Tool No.	Type
1/8	1/8	1/2	1/8	1-1/2	8°	SL-42	Solid
	1/4	5/8	1/4	2	14°	SL-1	Brazed
	5/16	7/8	1/4	2-3/4	14°	SL-2	Brazed
1/4	3/8	1-1/16	1/4	2-15/16	14°	SL-3	Brazed
	1/2	1-1/8	1/4	73.575MM	14°	SL-4	Brazed
	1/2	1-1/4	1/4	76.75MM	14°	SL-5	Brazed
	5/8	1-5/16	1/4	3-1/16	14°	*SL-6	Brazed
	5/8	1-7/16	1/4	3-1/5	14°	*SL-5	Brazed
	3/4	1-5/8	1/4	3-3/8	14°	*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.



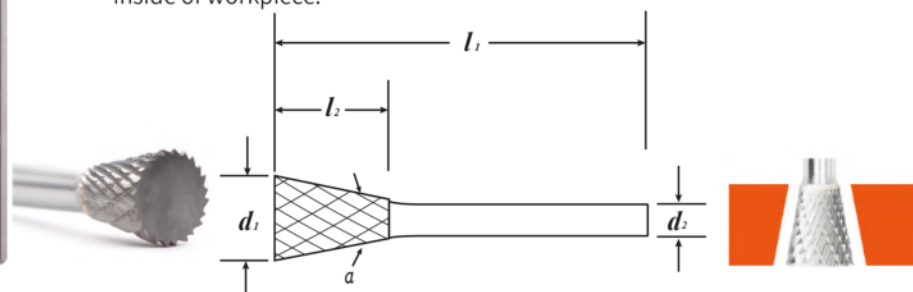
Metric Size							
Shank Diameter (mm)	Cutter Diameter(d <sub>1</sub> )	Length of Cut(l <sub>2</sub> )	Shank Diameter(d <sub>2</sub> )	Overall Length(l <sub>1</sub> )	Included Angle a	Tool No.	Type
3.0	3.0	11.0	3.0	38.0	14°	M0311	Solid
	5.0	13.0	3.0	51.0	14°	M0513	Brazed
	6.0	13.0	3.0	51.0	14°	M0613	Brazed
6.0	6.0	18.0	6.0	53.0	14°	M0618	Brazed
	6.0	25.0	6.0	50.0	14°	M0625	Solid
	8.0	20.0	6.0	65.0	25°	M0820	Brazed
	10.0	20.0	6.0	65.0	25°	M1020	Brazed
	12.0	25.0	6.0	70.0	25°	M1225	Brazed
	16.0	25.0	6.0	70.0	31°	M1625	Brazed
8.0	12.0	25.0	8.0	70.0	25°	M1225	Brazed
	16.0	25.0	8.0	70.0	31°	M1625	Brazed

Inch Size							
Shank Diameter (in)	Cutter Diameter(d <sub>1</sub> )	Length of Cut(l <sub>2</sub> )	Shank Diameter(d <sub>2</sub> )	Overall Length(l <sub>1</sub> )	Included Angle a	Tool No.	Type
1/8	1/8	7/16	1/8	1-1/2	14°	SM-42	Solid
	1/4	1/2	1/4	2	22°	SM	Solid
1/4	1/4	5/8	1/4	60.875MM	22°	SM1	Brazed
	1/4	1	1/4	2	10°	SM-3	Solid
	3/8	3/4	1/4	2-9/16	28°	SM-4	Brazed
	1/2	1	1/4	2-3/4	28°	SM-5	Brazed
	5/8	1	1/4	2-3/4	31°	*SM-6	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 <sub>1</sub> )	Length of Cut(l)	Shank Diameter(d <sub>2</sub> )	Overall Length(l <sub>1</sub> )	Included Angle a	Tool No.	Type
3.0	3.0	4.0	3.0	38.0	10°	N0304	Solid
	5.0	6.0	3.0	44.0	10°	N0506	Brazed
	6.0	7.0	3.0	45.0	10°	N0607	Brazed
6.0	6.0	7.0	6.0	52.0	10°	N0607	Brazed
	8.0	9.0	6.0	54.0	10°	N0809	Brazed
	10.0	10.0	6.0	55.0	20°	N1010	Brazed
	12.0	13.0	6.0	58.0	20°	N1213	Brazed
	16.0	16.0	6.0	61.0	20°	N1616	Brazed
	19.0	16.0	6.0	61.0	30°	N1916	Brazed
8.0	12.0	13.0	8.0	58.0	20°	N1213	Brazed
	16.0	16.0	8.0	61.0	20°	N1616	Brazed
	19.0	16.0	8.0	61.0	30°	N1916	Brazed

### Inch Size

Shank Diameter (in)	Cutter Diameter(d <sub>1</sub> )	Length of Cut(l)	Shank Diameter(d <sub>2</sub> )	Overall Length(l <sub>1</sub> )	Included Angle a	Tool No.	Type
1/8	1/8	3/16	1/8	1-1/2	10°	SN-42	Solid
1/4	1/4	1/4	1/4	51.35mm	10°	SN-51	Brazed
	3/8	3/8	1/4	54.525mm	13°	SN-2	Brazed
	1/2	1/2	1/4	2-1/4	28°	SN-4	Brazed
	5/8	3/4	1/4	2-1/2	18°	*SN-6	Brazed
	3/4	5/8	1/4	2-3/8	30°	*SN-7	Brazed

## Operating Principles of Carbide Burr

**01**

Before the operation, first, you need to choose the appropriate speed range according to the usage speed (please refer to the recommended starting speed condition).

**02**

Choose suitable carbide burr shape, diameter and tooth shape for different machining.

**03**

Choose the matched electric grinder with stable performance, preferably brand products.

**04**

The exposed part of the shank out of the chuck shall be at most 10mm. (except lengthened handle, Because it has a different speed requirement.)

**05**

Keeping it idling before use to make sure the concentricity of the carbide burr is good, eccentricity and vibration can cause premature wear of carbide burr and damage the workpiece.

**06**

Do not use too much pressure, too much pressure will reduce the life of carbide burr and its use efficiency.

**07**

Before use, please check that the workpiece is fixed or not and the chuck of electric grinder is correct and tight or not.

**08**

Wear appropriate protective glasses when using.

## » Always Remember To Wear



Face Mask



Safety Goggles



Ear Protection



Protective Gloves

## Application notes

Do not let the speed exceeds the maximum operating speed range.

Do not let the speed is too low.

Do not let carbide burr stuck in grooves and crevices when use.

Do not use too much pressure for carbide burr, lead to its working temperature is too high.

Do not run a burr in full of combustible gas conditions.