TUNGSTEN CARBIDE BURR

PRODUCT CATALOGUE

PRODUCT CATALOGUE

Factory & Company Introduction	P1-3
Technological Process	P4
Carbide Burr	**P5-6**
Carbide Burrs Cut Types	P7
Carbide Burrs Series of Sets	P8
Carbide Burrs All Shape	P9
Carbide Burrs Type A & B	P10-11
Carbide Burrs Type C & D	P12-13
Carbide Burrs Type E & F	P14-15
Carbide Burrs Type G & H	P16-17
Carbide Burrs Type J & K	P18-19
Carbide Burrs Type L & M & N	P20-22
Carbide Burrs Long Shank	P23-26
Carbide End Mill	**P27-28**
Carbide End Mills Introduction	P29
Carbide Flat / Square End Mill	P30
Carbide Ball Nose End Mill	P31
Carbide Corner / Bull Nose End Mill	P32
Carbide Aluminium End Mill	P33
Carbide Rods	**P34**
Product Display	P35
Product Application Scenarios	P36
Recommendation For Use	P37
Certification	P38














How to Choose the Most Suitable Carbide Burrs ?

Step One: Chose Device

- ◯ Machine
- ◯ Hand Device

Step Two: Applied Material

Material Type: Stainless steel, iron, copper, aluminum

_____

Step Three: Operating Speed

Maximum Revolutions Per Minute

_____

_____

Step Four: Carbide Burrs Shape

_____

Step Five: Cut Type

- ◯ Standard Cut Types
  Cut MX / Cut M / Cut W
- ◯ Special Cut Types
  Cut C / Cut F / Cut ZX / Cut D
  Cut MR / Cut SX / Cut INOX

Refer to P7 for details

Step Six: Standard Cut Diameter

- ◯ Metric Size
  3mm — 25mm _____
- ◯ Inch Size
  1/8" — 1" _____

Step Seven: Standard Shank Diameter

- ◯ Metric Size
  3mm / 6mm / 8mm _____
- ◯ Inch Size
  1/8" — 1/4" _____

Step Eight: Standard Shank Type

- ◯ Solid Carbide (Overall Dia*Overall Length)
  3*38mm _____
  6*50mm _____
- ◯ Brazed Carbide (shank Dia* Shank Length)
  3*38mm _____
  6*45mm _____
  8*45mm _____

Step Nine: Customized Shank Length

- ◯ Metric Size Carbide Shank Length - Brazed
  L4-100mm _____
  L6-150mm _____
  L8-200mm _____
- ◯ Inch Size Carbide Shank Length - Brazed
  L4 - 4'' _____
  L6 - 6'' _____
  L8 - 8'' _____

Step Ten: Contact Us — Joint Carbide

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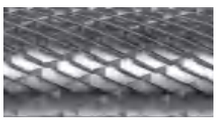
CARBIDE BURR

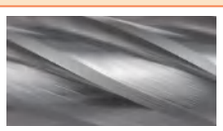
STANDARD BURRS CATALOGUE

Standard Cut Types



CUT MX
Double Cut - suitable for machining stainless steel, steel with hardness less than HRC60 and high-temperature-resistant materials

CUT M
Single Cut - suitable for machining cast iron, steel and stainless steel with hardness less than HRC60

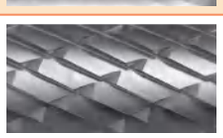


CUT W
Aluminium Cut - suitable for machining aluminium, aluminium alloys, non-ferrous metals and plastics

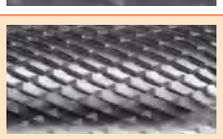
Special Cut Types

CUT C
Coarse Cut - suitable for fine machining of soft metals, non-ferrous metals, steel and cast iron

CUT F
Fine Cut - suitable for fine machining of cast iron, steel with hardness less than HRC60 and stainless steel



CUT ZX
Tough Cut - suitable for machining welding scar, steel and cast iron



CUT D
Diamond Cut - suitable for fine machining of all materials with hardness less than HRC60

CUT MR
Chip Breaker Cut - suitable for machining stainless steel, steel and cast iron

CUT SX
Steel Cut - suitable for steel and cast iron machining with better chip evacuation

CUT INOX
INOX Cut - suitable for stainless steel and soft titanium alloys

Cut Diameter in Inch	Cut Diameter in Metric	Cutting Speed(m/min)				
		240	360	450	600	900
		Cutting Rotational Speed(RPM)				
1/8	3	26000	38000	48000	64000	95500
3/16	5	18000	26000	32200	40300	61000
1/4	6	13400	20500	24200	32000	48000
5/16	8	9600	15500	18400	24000	36500
3/8	10	8200	12500	14500	21500	29500
1/2	12	6500	10500	12200	16500	24500
5/8	16	5200	8500	9000	12000	18100
3/4	20	4100	7100	8300	11000	14500
1	25	3200	5200	6100	8200	11500

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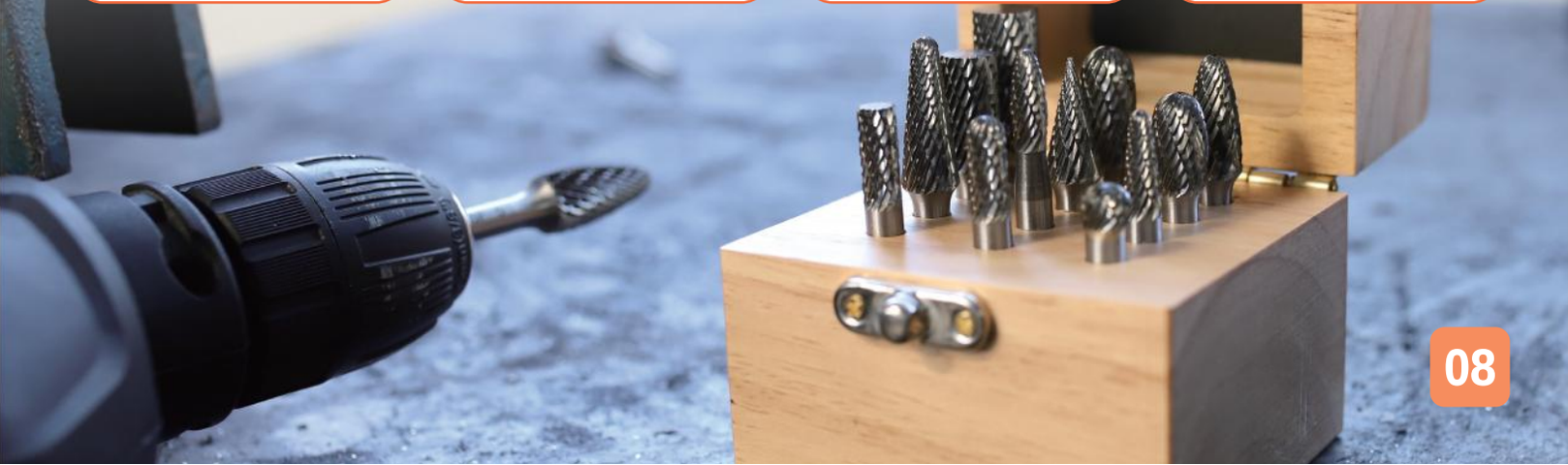
SERIES OF SETS

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

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



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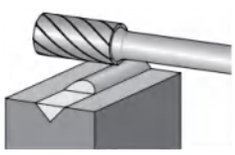
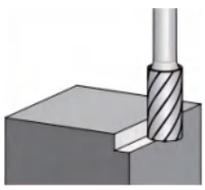
Cylinder Shape



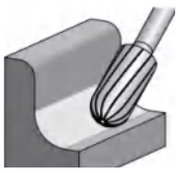
SA

Cylinder Shape With End Cut



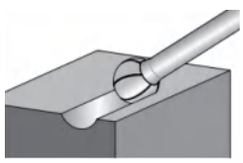
SB

Ball Nosed Cylinder Shape



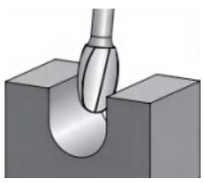
SC

Ball Shape



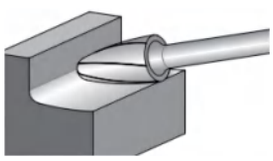
SD

Oval Shape



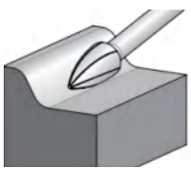
SE

Tree Shape



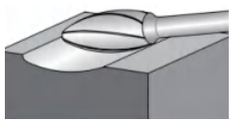
SF

Pointed Tree Shape



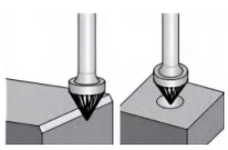
SG

Flame Shape



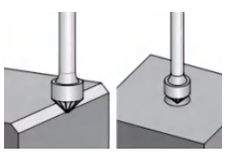
SH

60° Countersink Shape



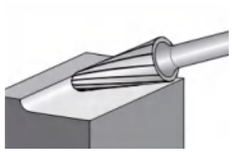
SJ

90° Countersink Shape



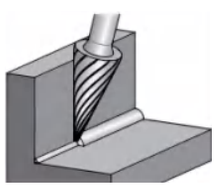
SK

Ball Nosed Cone Shape



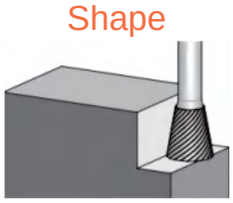
SL

Cone Shape



SM

Inverted Cone Shape



SN

ALL KINDS OF SHAPE

APPLICABLE SCENARIOS

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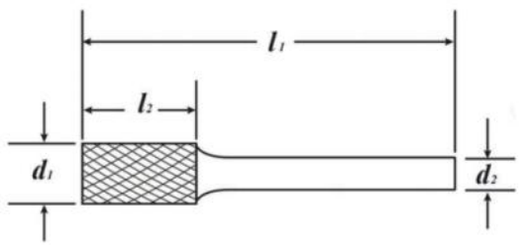
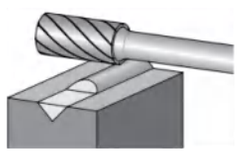
TYPE A CARBIDE BURR

Burr Shape - Cylinder

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





Metric Size

Shank Diameter(mm)	Cutting Diameter(d_1)	Cutting Length(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
	25	25	6	70	SA62525	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	Cutting Diameter(d_1)	Cutting Length(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

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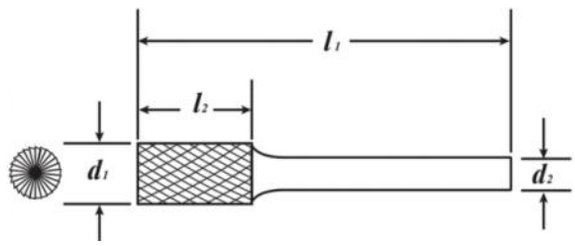
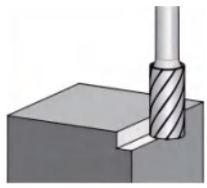
TYPE B CARBIDE BURR

Burr Shape - Cylinder With End Cut

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





Metric Size

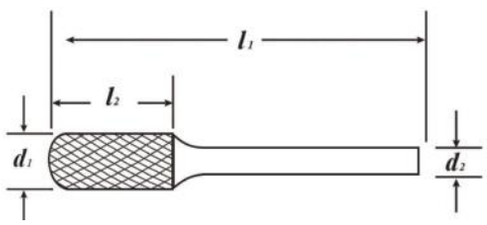
Shank Diameter(mm)	Cutting Diameter(d_1)	Cutting Length(l_2)	Shank Diameter(d_2)	Overall Length(l_1)	Tool No.	Type
3.0	3	14	3	38	SB30314	Solid
	4	13	3	51	SB30413	Brazed
	5	13	3	51	SB30513	Brazed
	6	13	3	51	SB30613	Brazed
6.0	6	16	6	50	SB60616	Solid
	6	16	6	61	SB60616	Brazed
	8	20	6	65	SB60820	Brazed
	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
	25	25	6	70	SB62525	Brazed
8.0	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

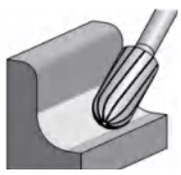
Inch Size

Shank Diameter	Cutting Diameter(d_1)	Cutting Length(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)	Cutting Diameter(d_1)	Cutting Length(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
	25	25	6	70	SC62525	Brazed
8.0	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	Cutting Diameter(d_1)	Cutting Length(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

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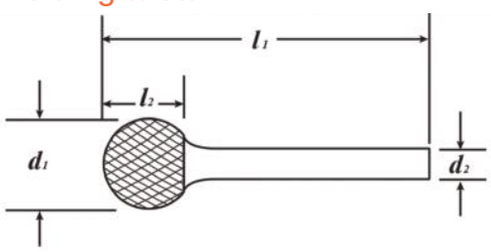
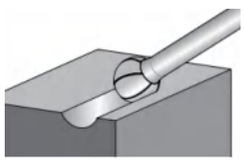
TYPE D CARBIDE BURR

Burr Shape - Ball Shape

Type D carbide burr is suitable for machining circular arc profile and removing burrs at welding area





Metric Size

Shank Diameter(mm)	Cutting Diameter(d_1)	Cutting Length(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
	25	21	6	66	SD62521	Brazed
8.0	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	Cutting Diameter(d_1)	Cutting Length(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

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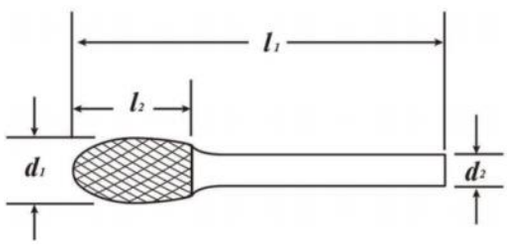
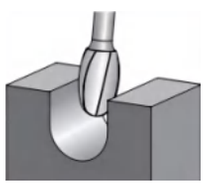
TYPE E CARBIDE BURR

Burr Shape - Oval Shape

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





Metric Size

Shank Diameter(mm)	Cutting Diameter(d_1)	Cutting Length(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	Cutting Diameter(d_1)	Cutting Length(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

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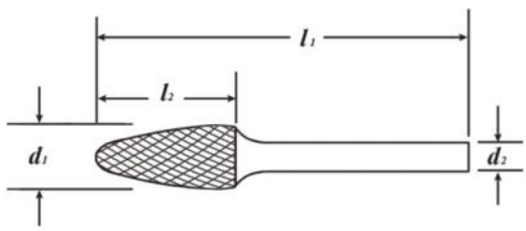
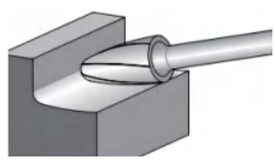
TYPE F CARBIDE BURR

Burr Shape - Tree Shape

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





Metric Size

Shank Diameter(mm)	Cutting Diameter(d_1)	Cutting Length(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
	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	Cutting Diameter(d_1)	Cutting Length(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

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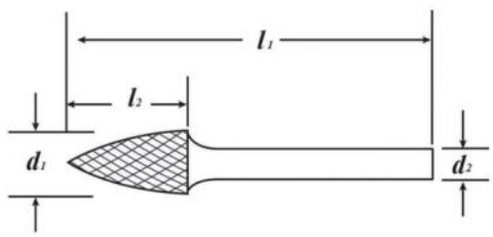
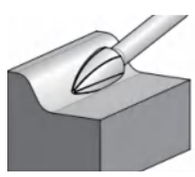
TYPE G CARBIDE BURR

Burr Shape - Pointed 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)	Cutting Diameter(d_1)	Cutting Length(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	Cutting Diameter(d_1)	Cutting Length(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

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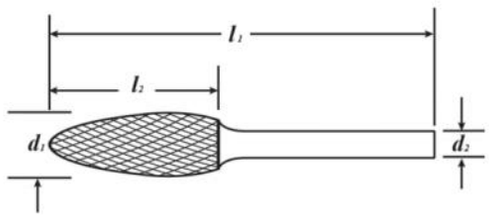
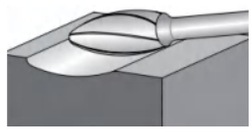
TYPE H CARBIDE BURR

Burr Shape - Flame Shape
Type H carbide burr is suitable for machining circular arc profile of workpiece





Metric Size

Shank Diameter(mm)	Cutting Diameter(d_1)	Cutting Length(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
	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

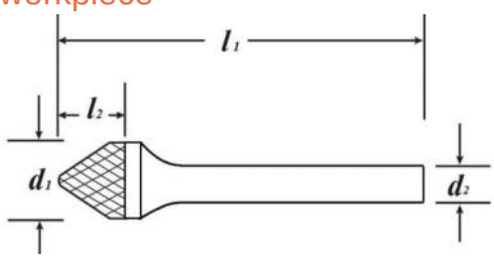
Inch Size

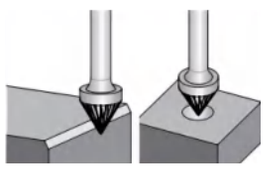
Shank Diameter	Cutting Diameter(d_1)	Cutting Length(l_2)	Shank Diameter(d_2)	Overall Length(l_1)	Tool No.	Type
1/8	1/8	1/4	1/8	1-1/2	SH-42	Solid
	1/4	1/2	1/8	2	SH-51	Brazed
1/4	1/4	5/8	1/4	2	SH-1	Solid
	1/4	5/8	1/4	2-3/8	SH-1	Brazed
	5/16	3/4	1/4	2-1/2	SH-2	Brazed
	3/8	1	1/4	2-3/4	SH-3	Brazed
	1/2	1-1/4	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)	Cutting Diameter(d_1)	Cutting Length(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

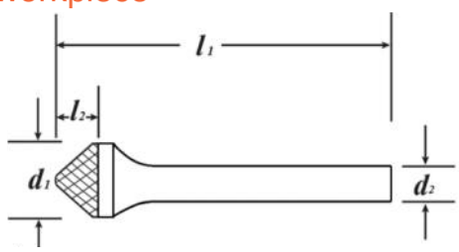
Inch Size

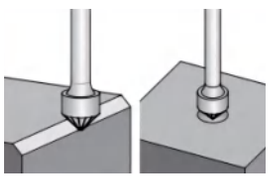
Shank Diameter	Cutting Diameter(d_1)	Cutting Length(l_2)	Shank Diameter(d_2)	Overall Length(l_1)	Tool No.	Type
1/8	1/8	3/32	1/8	1-1/2	SJ-42	Solid
1/4	1/4	3/16	1/4	2	SJ-1	Solid
	1/4	3/16	1/4	2	SJ-1	Brazed
	3/8	5/16	1/4	2-1/5	SJ-3	Brazed
	1/2	7/16	1/4	2-1/3	SJ-5	Brazed
	5/8	9/16	1/4	2-4/9	SJ-6	Brazed
	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 90° counter boring arc chamfering of workpiece





Metric Size

Shank Diameter(mm)	Cutting Diameter(d_1)	Cutting Length(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	SK81005	Brazed
	12	6	8	54	SK81206	Brazed
	16	8	8	57	SK81608	Brazed
	19	9	8	58	SK81909	Brazed
	25	12	8	61	SK82512	Brazed

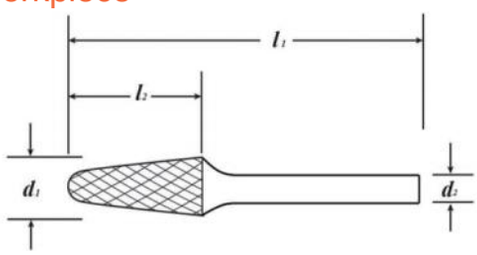
Inch Size

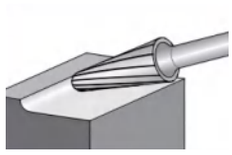
Shank Diameter	Cutting Diameter(d_1)	Cutting Length(l_2)	Shank Diameter(d_2)	Overall Length(l_1)	Tool No.	Type
1/8	1/8	1/16	1/8	1-1/2	SK-42	Solid
1/4	1/4	1/8	1/4	2	SK-1	Solid
	1/4	1/8	1/4	2	SK-1	Brazed
	3/8	3/16	1/4	2-1/16	SK-3	Brazed
	1/2	1/4	1/4	2-1/9	SK-5	Brazed
	5/8	5/16	1/4	2-1/4	SK-6	Brazed
	3/4	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 Nosed Cone

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





Metric Size

Shank Diameter(mm)	Cutting Diameter(d_1)	Cutting Length(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

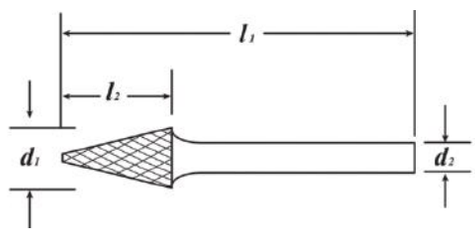
Inch Size

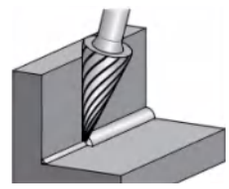
Shank Diameter	Cutting Diameter(d_1)	Cutting Length(l_2)	Shank Diameter(d_2)	Overall Length(l_1)	Tool No.	Type
1/8	1/8	1/2	1/8	1-1/2	SL-42	Solid
	1/4	1/2	1/8	2	SL-51	Brazed
1/4	1/4	5/8	1/4	2	SL-1	Solid
	1/4	5/8	1/4	2-3/8	SL-1	Brazed
	5/16	7/8	1/4	2-3/4	SL-2	Brazed
	3/8	1-1/16	1/4	2-15/16	SL-3	Brazed
	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)	Cutting Diameter(d_1)	Cutting Length(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	19	6	50	SM60619	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	SM62025	Brazed
	22	25	6	70	SM62525	Brazed
8.0	10	20	8	65	SM81020	Brazed
	12	25	8	70	SM81225	Brazed
	16	25	8	70	SM81625	Brazed
	19	25	8	70	SM82025	Brazed
	22	25	8	70	SM82525	Brazed

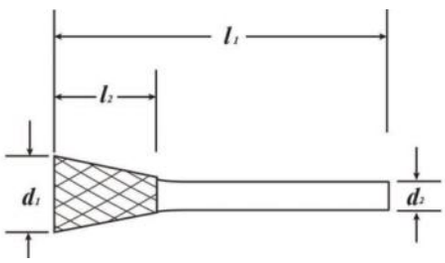
Inch Size

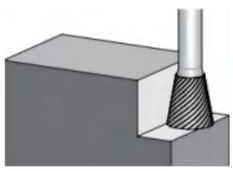
Shank Diameter	Cutting Diameter(d_1)	Cutting Length(l_2)	Shank Diameter(d_2)	Overall Length(l_1)	Tool No.	Type
1/8	1/8	7/16	1/8	1-1/2	SM-42	Solid
	1/4	1/2	1/8	2	SM-51	Brazed
1/4	1/4	1/2	1/4	2	SM-1	Solid
	1/4	5/8	1/4	2-3/8	SM-1	Brazed
	1/4	3/4	1/4	2-1/2	SM-2	Brazed
	1/4	1	1/4	2-3/4	SM-3	Brazed
	3/8	5/8	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 - Inverted Cone

Type N carbide burr is suitable for machining the internal chamfers of workpiece





Metric Size

Shank Diameter(mm)	Cutting Diameter(d_1)	Cutting Length(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	Cutting Diameter(d_1)	Cutting Length(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

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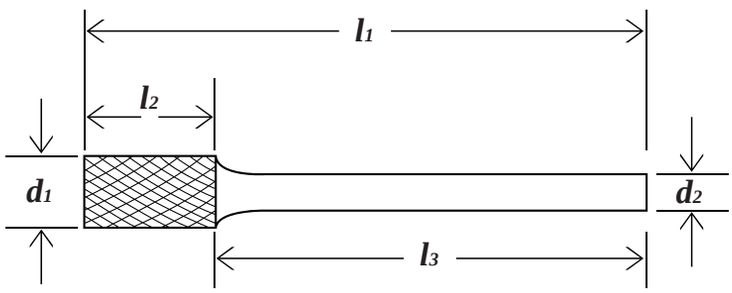
CARBIDE BURR LONG SHANK

10 shapes standard carbide burrs long shanks

Shank length (Metric - Inch)

L4'' - 100MM

L6'' - 150MM



A - Cylinder Shape

Shank Diameter	Cutting Diameter(d_1)	Cutting Length(l_2)	Shank Diameter(d_2)	Shank Length(l_3)	Overall Length(l_1)	Tool No.
L4	6	16	6	100	116	SA60616-L4
	8	20	6	100	120	SA60820-L4
	10	20	6	100	120	SA61020-L4
	12	25	6	100	125	SA61225-L4
L6	6	16	6	150	166	SA60616-L6
	8	20	6	150	170	SA60820-L6
	10	20	6	150	170	SA61020-L6
	12	25	6	150	175	SA61225-L6

B - Cylinder Shape With End Cut

Shank Diameter	Cutting Diameter(d_1)	Cutting Length(l_2)	Shank Diameter(d_2)	Shank Length(l_3)	Overall Length(l_1)	Tool No.
L4	6	16	6	100	116	SB60616-L4
	8	20	6	100	120	SB60820-L4
	10	20	6	100	120	SB61020-L4
	12	25	6	100	125	SB61225-L4
L6	6	16	6	150	166	SB60616-L6
	8	20	6	150	170	SB60820-L6
	10	20	6	150	170	SB61020-L6
	12	25	6	150	175	SB61225-L6

C - Ball Nosed Cylinder Shape

Shank Diameter	Cutting Diameter(d_1)	Cutting Length(l_2)	Shank Diameter(d_2)	Shank Length(l_3)	Overall Length(l_1)	Tool No.
L4	6	16	6	100	116	SC60616-L4
	8	20	6	100	120	SC60820-L4
	10	20	6	100	120	SC61020-L4
	12	25	6	100	125	SC61225-L4
L6	6	16	6	150	166	SC60616-L6
	8	20	6	150	170	SC60820-L6
	10	20	6	150	170	SC61020-L6
	12	25	6	150	175	SC61225-L6

D - Ball Shape

Shank Diameter	Cutting Diameter(d_1)	Cutting Length(l_2)	Shank Diameter(d_2)	Shank Length(l_3)	Overall Length(l_1)	Tool No.
L4	6	5	6	100	105	SD60605-L4
	8	7	6	100	107	SD60807-L4
	10	9	6	100	109	SD61009-L4
	12	10	6	100	110	SD61210-L4
L6	6	5	6	150	155	SD60605-L6
	8	7	6	150	157	SD60807-L6
	10	9	6	150	159	SD61009-L6
	12	10	6	150	160	SD61210-L6

E - Oval Shape

Shank Diameter	Cutting Diameter(d_1)	Cutting Length(l_2)	Shank Diameter(d_2)	Shank Length(l_3)	Overall Length(l_1)	Tool No.
L4	6	10	6	100	110	SE60610-L4
	8	13	6	100	113	SE60813-L4
	10	16	6	100	116	SE61016-L4
	12	20	6	100	120	SE61220-L4
L6	6	10	6	150	160	SE60610-L6
	8	13	6	150	163	SE60813-L6
	10	16	6	150	166	SE61016-L6
	12	20	6	150	170	SE61220-L6

F - Tree Shape

Shank Diameter	Cutting Diameter(d_1)	Cutting Length(l_2)	Shank Diameter(d_2)	Shank Length(l_3)	Overall Length(l_1)	Tool No.
L4	6	18	6	100	118	SF60618-L4
	8	20	6	100	120	SF60820-L4
	10	20	6	100	120	SF61020-L4
	12	25	6	100	125	SF61225-L4
L6	6	18	6	150	168	SF60618-L6
	8	20	6	150	170	SF60820-L6
	10	20	6	150	170	SF61020-L6
	12	25	6	150	175	SF61225-L6

G - Pointed Tree Shape

Shank Diameter	Cutting Diameter(d_1)	Cutting Length(l_2)	Shank Diameter(d_2)	Shank Length(l_3)	Overall Length(l_1)	Tool No.
L4	6	18	6	100	118	SG60618-L4
	8	20	6	100	120	SG60820-L4
	10	20	6	100	120	SG61020-L4
	12	25	6	100	125	SG61225-L4
L6	6	18	6	150	168	SG60618-L6
	8	20	6	150	170	SG60820-L6
	10	20	6	150	170	SG61020-L6
	12	25	6	150	175	SG61225-L6

H - Flame Shape

Shank Diameter	Cutting Diameter(d_1)	Cutting Length(l_2)	Shank Diameter(d_2)	Shank Length(l_3)	Overall Length(l_1)	Tool No.
L4	6	18	6	100	118	SH60618-L4
	8	20	6	100	120	SH60820-L4
	10	25	6	100	125	SH61025-L4
	12	32	6	100	132	SH61232-L4
L6	6	18	6	150	168	SH60618-L6
	8	20	6	150	170	SH60820-L6
	10	25	6	150	175	SH61025-L6
	12	32	6	150	182	SH61232-L6

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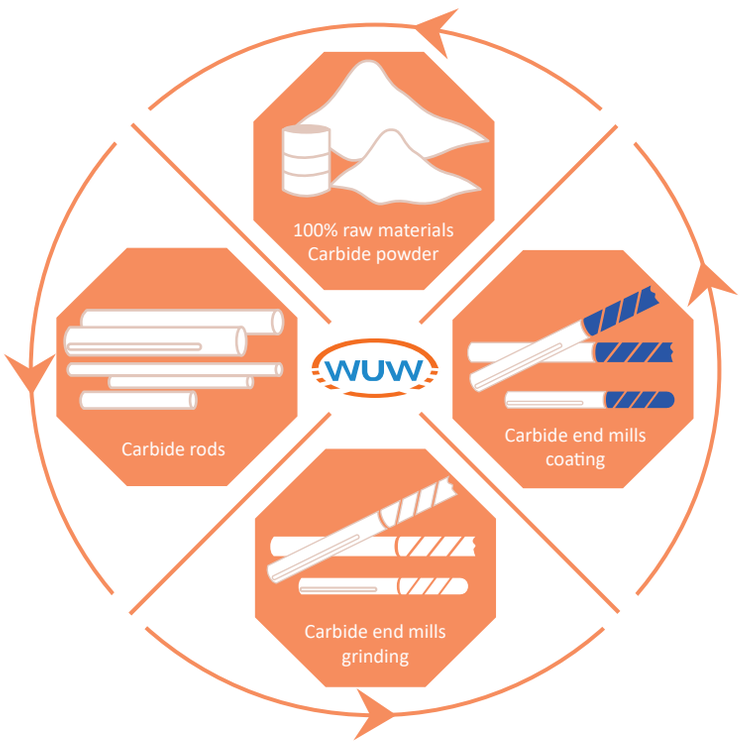
L - Ball Nosed Cone Shape

Shank Diameter	Cutting Diameter(d_1)	Cutting Length(l_2)	Shank Diameter(d_2)	Shank Length(l_3)	Overall Length(l_1)	Tool No.
L4	6	16	6	100	116	SL60616-L4
	8	22	6	100	122	SL60822-L4
	10	25	6	100	125	SL61025-L4
	12	28	6	100	128	SL61228-L4
L6	6	16	6	150	166	SL60616-L6
	8	22	6	150	172	SL60822-L6
	10	25	6	150	175	SL61025-L6
	12	28	6	150	178	SL61228-L6

M - Cone Shape

Shank Diameter	Cutting Diameter(d_1)	Cutting Length(l_2)	Shank Diameter(d_2)	Shank Length(l_3)	Overall Length(l_1)	Tool No.
L4	6	18	6	100	118	SM60618-L4
	8	20	6	100	120	SM60820-L4
	10	20	6	100	120	SM61020-L4
	12	25	6	100	125	SM61225-L4
L6	6	18	6	150	168	SM60618-L6
	8	20	6	150	170	SM60820-L6
	10	20	6	150	170	SM61020-L6
	12	25	6	150	175	SG61225-L6

Tungsten Carbide End Mill



How to Choose the Most Suitable Carbide End Mills ?

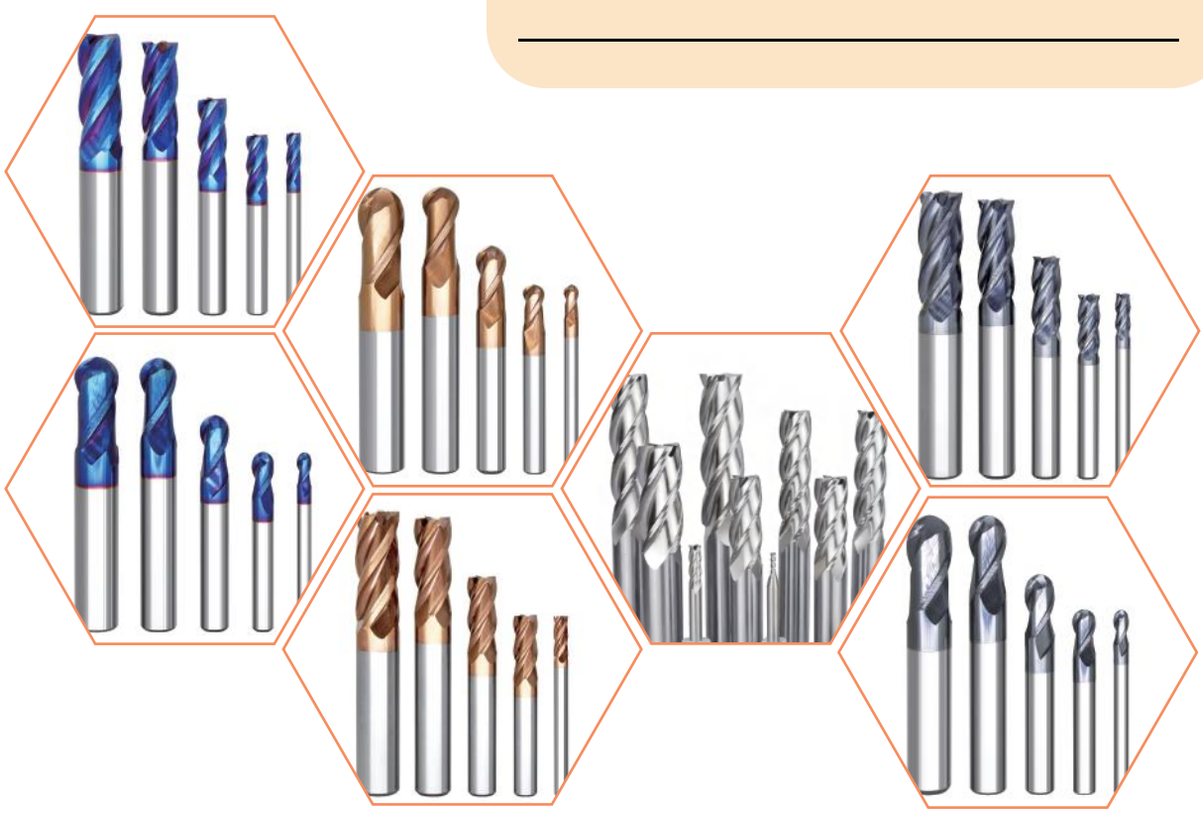
1.Applied Material:
Stainless steel, iron, bronze, copper, aluminium, titanium alloy, wood, plastic.

2.Cut Style / HRC:
Flat end mill / Ball nose end mill /
Corner Radius end mill

HRC 45 / 55 / 65

3.Diameter and Length:
Metric size: _____
Inch size: _____

4.Coating:
AlTiN (black) / TiSiN (bronze) /
TiAlSiN (nano blue)



CARBIDE END MILL

STANDARD END MILL CATALOGUE

Standard End Mill

4F FLAT/SQUARE	2F BALL NOSE	4F CORNER/BULL NOSE	3F ALUMINIUM
			

HRC & Coating Introduction

	HRC45	Black Coating	AlTiN
	HRC55	Bronze Coating	TiSiN
	HRC65	Nano Blue Coating	TiAlSiN

Rods Report

Chemical Composition		
Tungsten Carbide (WC) 88-90%	Other Carbides 1.0-2.0%	Cobalt (Total Binder content) 9-10%
Physical Properties		
A. Hardness: 1500-1650 HV30 (HRA91.2-92.2).		
B. Density: 14.9-15.0 g/cm³.		
C. Average Carbide Grain Size: 0.6-0.8 micron.		
D. Average Tungsten Carbide Grain Size(F.S.S.S): 0.6-0.8 micron.		
E. Magnetic Saturation: 134-160 Gauss cm³/g (CoM 8.4-10.0%).		
F. Coercive Force: 250-280 Oersteds (19.89-22.3 KA/m).		
G.Transverse Rupture Strength on Polished Test Piece: ≥3200N/mm².		

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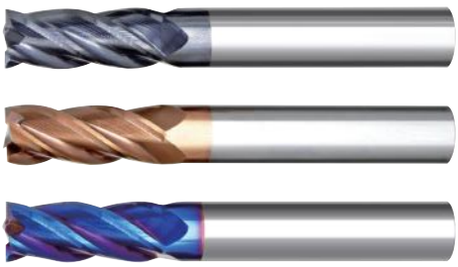
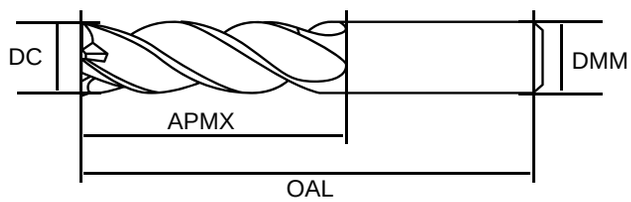
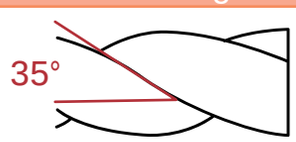


FLAT / SQUARE END MILL



4 Flutes	Helix Angle	Coating	Processing
		AlTiN TiSiN TiAlSiN	

Model	Description (mm)				Flutes (NOF)
	Cutting Diameter (DC)	Cutting Length (APMX)	Shank Diameter (DMM)	Overall Length (OAL)	
4F-3*8-4*50	3	8	4	50	4
4F-4*10-4*50	4	10	4	50	4
4F-4*16-4*75	4	16	4	75	4
4F-4*20-4*100	4	20	4	100	4
4F-5*13-5*50	5	13	5	50	4
4F-5*13-6*50	5	13	6	50	4
4F-6*15-6*50	6	15	6	50	4
4F-6*20-6*75	6	20	6	75	4
4F-6*30-6*100	6	30	6	100	4
4F-6*30-6*150	6	30	6	150	4
4F-8*20-8*60	8	20	8	60	4
4F-8*25-8*75	8	25	8	75	4
4F-8*35-8*100	8	35	8	100	4
4F-8*40-8*150	8	40	8	150	4
4F-10*25-10*75	10	25	10	75	4
4F-10*40-10*100	10	40	10	100	4
4F-10*50-10*150	10	50	10	150	4
4F-12*30-12*75	12	30	12	75	4
4F-12*45-12*100	12	45	12	100	4
4F-12*55-12*150	12	55	12	150	4
4F-14*45-14*100	14	45	14	100	4
4F-14*65-14*150	14	65	14	150	4
4F-16*45-16*100	16	45	16	100	4
4F-16*70-16*150	16	70	16	150	4

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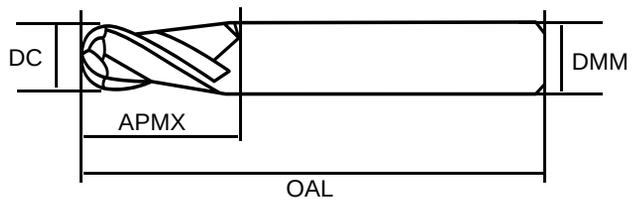
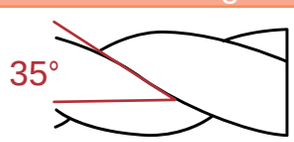
BALL NOSE END MILL



2 Flutes	Helix Angle	Coating	Processing
		AlTiN TiSiN TiAlSiN	

Model	Description (mm)				Flutes (NOF)
	Cutting Diameter (DC)	Cutting Length (APMX)	Shank Diameter (DMM)	Overall Length (OAL)	
2F-R1.5*6-4*50	3	6	4	50	2
2F-R2*8-4*50	4	8	4	50	2
2F-R2*8-4*75	4	8	4	75	2
2F-R2*8-4*100	4	8	4	100	2
2F-R2.5*10-5*50	5	10	5	50	2
2F-R2.5*10-6*50	5	10	6	50	2
2F-R3*12-6*50	6	12	6	50	2
2F-R3*12-6*75	6	12	6	75	2
2F-R3*12-6*100	6	12	6	100	2
2F-R3*12-6*150	6	12	6	150	2
2F-R4*16-8*60	8	16	8	60	2
2F-R4*16-8*75	8	16	8	75	2
2F-R4*16-8*100	8	16	8	100	2
2F-R4*16-8*150	8	16	8	150	2
2F-R5*20-10*75	10	20	10	75	2
2F-R5*20-10*100	10	20	10	100	2
2F-R5*20-10*150	10	20	10	150	2
2F-R6*24-12*75	12	24	12	75	2
2F-R6*24-12*100	12	24	12	100	2
2F-R6*24-12*150	12	24	12	150	2
2F-R7*28-14*100	14	28	14	100	2
2F-R7*28*14*150	14	28	14	150	2
2F-R8*32-16*100	16	32	16	100	2
2F-R8*32-16*150	16	32	16	150	2

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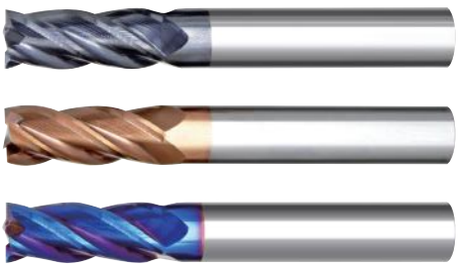
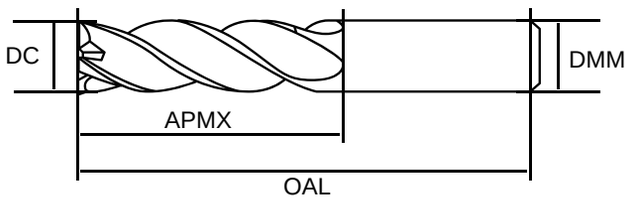
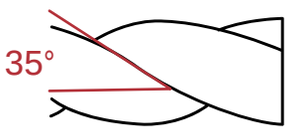


CORNER / BULL NOSE END MILL



4 Flutes	Helix Angle	Coating	Processing
		AlTiN TiSiN TiAlSiN	

Model	Description (mm)				Flutes (NOF)	Corner Radius (RE)
	Cutting Diameter (DC)	Cutting Length (APMX)	Shank Diameter (DMM)	Overall Length (OAL)		
4F-3R*8-4*50	3	8	3	50	4	R (Customized)
4F-4R*10-4*50	4	10	4	50	4	
4F-4R*16-4*75	4	16	4	75	4	
4F-4R*20-4*100	4	20	4	100	4	
4F-5R*13-5*50	5	13	5	50	4	
4F-5R*13-6*50	5	13	5	50	4	
4F-6R*15-6*50	6	15	6	50	4	
4F-6R*20-6*75	6	20	6	75	4	
4F-6R*30-6*100	6	30	6	100	4	
4F-8R*20-8*60	8	20	8	60	4	
4F-8R*25-8*75	8	25	8	75	4	
4F-8R*35-8*100	8	35	8	100	4	
4F-9R*23-10*75	9	23	9	75	4	
4F-10R*25-10*75	10	25	10	75	4	
4F-10R*40-10*100	10	40	10	100	4	
4F-12R*30-12*75	12	30	12	75	4	
4F-12R*45-12*100	12	45	12	100	4	

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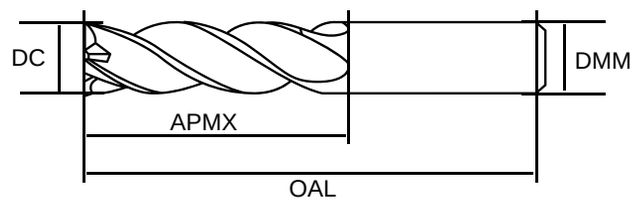
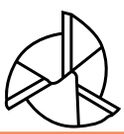
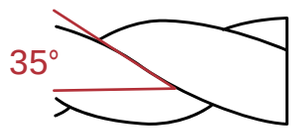
ALUMINIUM END MILL



3 Flutes	Helix Angle	Processing
		

Model	Description (mm)				Flutes (NOF)
	Cutting Diameter (DC)	Cutting Length (APMX)	Shank Diameter (DMM)	Overall Length (OAL)	
3F-3*8-4*50	3	8	4	50	3
3F-4*10-4*50	4	10	4	50	3
3F-4*16-4*75	4	16	4	75	3
3F-4*20-4*100	4	20	4	100	3
3F-5*13-5*50	5	13	5	50	3
3F-5*13-6*50	5	13	6	50	3
3F-6*15-6*50	6	15	6	50	3
3F-6*20-6*75	6	20	6	75	3
3F-6*30-6*100	6	30	6	100	3
3F-6*30-6*150	6	30	6	150	3
3F-8*20-8*60	8	20	8	60	3
3F-8*25-8*75	8	25	8	75	3
3F-8*35-8*100	8	35	8	100	3
3F-8*40-8*150	8	40	8	150	3
3F-10*25-10*75	10	25	10	75	3
3F-10*40-10*100	10	40	10	100	3
3F-10*50-10*150	10	50	10	150	3
3F-12*30-12*75	12	30	12	75	3
3F-12*45-12*100	12	45	12	100	3
3F-12*55-12*150	12	55	12	150	3
3F-14*45-14*100	14	45	14	100	3
3F-14*65-14*150	14	65	14	150	3
3F-16*45-16*100	16	45	16	100	3
3F-16*70-16*150	16	70	16	150	3

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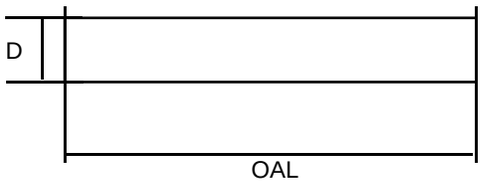
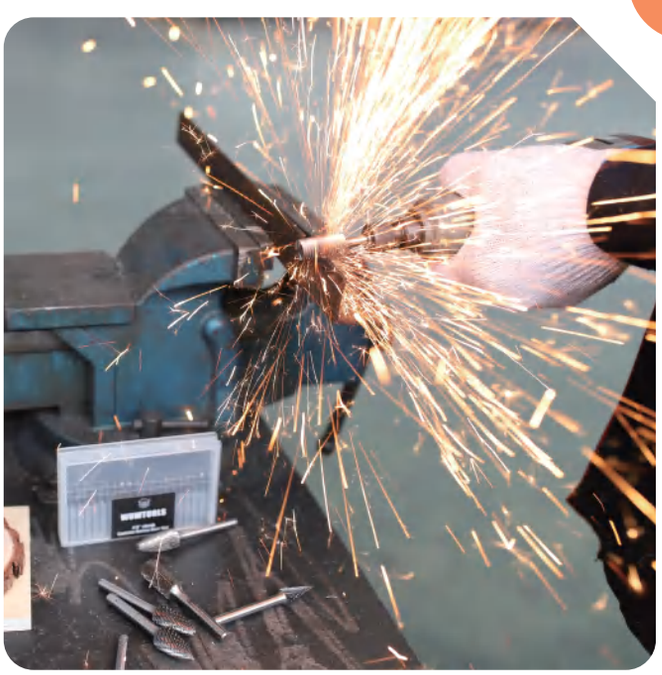
POLISHED RODS



Model	Diameter (D)	Length (OAL)	MOQ
3*50	3	50	100
3*75	3	75	100
3*100	3	100	100
3*330	3	330	100
4*50	4	50	100
4*75	4	75	100
4*100	4	100	100
4*150	4	150	100
4*330	4	330	100
5*50	5	50	100
5*100	5	100	100
5*150	5	150	100
5*330	5	330	100
6*50	6	50	100
6*75	6	75	100
6*100	6	100	100
6*150	6	150	100
6*330	6	330	100
8*60	8	60	100
8*100	8	100	100
8*150	8	150	100
8*330	8	330	100
10*75	10	75	100
10*100	10	100	100
10*150	10	150	100
10*330	10	330	100
12*100	12	100	100
12*150	12	150	100
12*330	12	330	100
14*100	14	100	100
14*150	14	150	100

PRODUCT DISPLAY

PRODUCT APPLICATION SCENARIO



RECOMMENDATION FOR USE

- Please choose the appropriate rotational speed before grinding.
- Please choose suitable burr shape, diameter and cut type for different applied material machining.
- Please confirm that the burr shank and chuck of die grinder are connected firmly before using.
- Avoid too much pressure on burrs while grinding. High temperature caused will shorten burrs' lifespan.
- Show down the machine when burrs are stuck in the material.
- Do not use burrs in the combustible gas environment.
- Please wear glasses and gloves as protection before grinding.

Application Notes


Safety Glasses


Ear Protection


Face Mask


Protective Gloves