

# **CARBIDE BURRS**



**CATALOG 2025**

# **CARBIDE BURRS**



## WHAT ENABLES OUR QUALITY TO REMAIN UNBEATABLE.

### CARBIDE HEAD

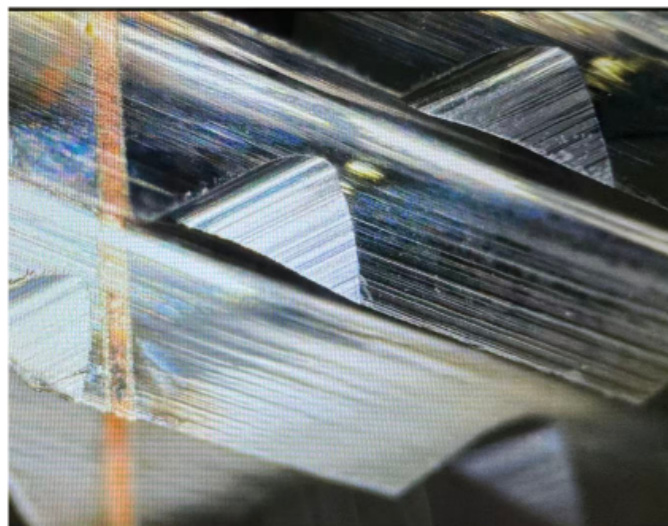
PERSISTOOLS CARBIDE HEAD ARE MANUFACTURED USING THE FINEST TUNGSTEN CARBIDE RAW MATERIALS, WITH FLAT BOTTOM.

### WELDING

WE ONLY ADOPT SILVER BRAZING TECHNOLOGY PAIRED WITH FULLY AUTOMATED WELDING SYSTEMS TO ENSURE CONSISTENT WELDING QUALITY

### TOOTH GRINDING

TOOTH ARE MACHINED BY 5-AXIS CNC, WITH ONGOING PRODUCTION PROCESS OPTIMIZATION AND STRICT QUALITY ASSURANCE.



## BURR CUT STYLES

CHOOSE THE CUT TYPE THAT DELIVERS THE FINISH YOU NEED. EACH BURR IS PRECISION-GROUND FOR SMOOTH CUTTING, REDUCED VIBRATION, AND EXTENDED TOOL LIFE.

### DOUBLE CUT

RIGHT- AND LEFT-HAND FLUTES CREATE A CHISEL-LIKE CUTTING EDGE FOR FASTER STOCK REMOVAL AND SMOOTHER CONTROL, REDUCING OPERATOR FATIGUE.



### SINGLE CUT

FEATURES RIGHT-HAND SPIRAL FLUTES FOR EFFICIENT STOCK REMOVAL AND SMOOTH FINISHES — IDEAL FOR GENERAL DEBURRING OF STEEL, CAST IRON, AND NON-FERROUS ALLOYS.



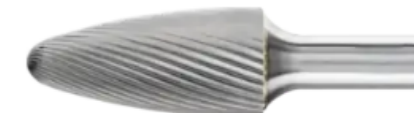
### ALUMINUM CUT

WIDE FLUTES PROVIDE EXCELLENT CHIP CLEARANCE FOR FAST MATERIAL REMOVAL — PERFECT FOR ALUMINUM, BRASS, ZINC ALLOYS, PLASTICS, AND OTHER SOFT NON-FERROUS MATERIALS.



### FINE CUT

RECOMMENDED FOR APPLICATIONS REQUIRING SUPERIOR SURFACE FINISH



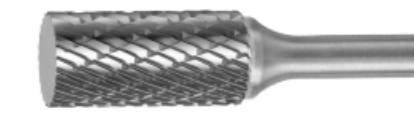
### COARSE CUT

PROVIDES FAST STOCK REMOVAL IN COPPER, BRASS, PLASTICS, RUBBER, AND OTHER EASILY MACHINED MATERIALS.



### DIAMOND CUT

DESIGNED FOR HEAT-TREATED AND TOUGH ALLOY STEELS. PROVIDES AGGRESSIVE STOCK REMOVAL WITH STABLE CONTROL — IDEAL FOR WELD PREPARATION AND HEAVY-DUTY APPLICATIONS.



## TECHNICAL DATA GUIDE TO RUNNING SPEEDS



Recommended spindle speeds

Materials	D1				
	3mm	6mm	10mm	12mm	16mm
Steel	60000-90000	45000-60000	30000-40000	22500-30000	18000-24000
Hardened steel	60000-90000	30000-45000	19000-30000	15000-22500	12000-18000
Stainless steel	60000-90000	30000-45000	19000-30000	15000-22500	12000-18000
Cast iron	45000-90000	22500-60000	15000-40000	11000-30000	9000-24000
Titanium	60000-90000	30000-45000	19000-30000	15000-22500	12000-18000
Nickel	60000-90000	30000-45000	19000-30000	15000-22500	12000-18000
Copper alloys	45000-90000	22500-60000	15000-40000	11000-30000	9000-24000
Aluminium	30000-90000	15000-70000	10000-50000	7000-38000	6000-30000
Plastics	30000-90000	15000-70000	10000-50000	7000-38000	6000-30000
Cermet	60000-90000	30000-45000	19000-30000	15000-22500	12000-18000

Long shank burs should be run at lower RPM

## APPLICATION AND CHARACTERISTIC

Using Carbide Rotary Burrs is an effective way to realize mechanization in hand work operations, in the industries of airplane, ship building, automobile, machinery, chemistry etc. Carbide Rotary Burrs can be widely used in machining iron, steel casting, carbon steel, alloy steel, stainless steel, copper aluminium etc.

Machining various kinds of metal material including < HRC65 hardened steel.

The machines which are used for Carbide Rotary Burrs are usually hand-held, powered either by compressed air or electricity, Be careful about mounting and handling the burr correctly.

Only at high speed, can carbide rotary burrs show their remarkable performance.

### Notes:

1. It may be necessary to adjust the rates shown to achieve optimum performance.
2. Harder materials require slower speeds.
3. Smaller burrs require faster speeds.
4. Extra long burrs (>150mm long) require slower speeds.
5. Apply constant movement and light pressure when in use.
6. Running below the optimum speed will cause tooth wear.
7. Allowing the tool to become too hot may cause the brazing to melt and detach the head from the shank.
8. Using tools and collets that have become worn will encourage chipping.
9. Do not sink the burr for more than one third of its periphery.

### Safety recommendations:

Operation:

Must wear protection cover when operating or cut.

Extending cutter should be moderated when operating.

Adopt different speeds of level according to processing materials.



Wear face shield



wear defenders



wear protective gloves



wear safety glasses



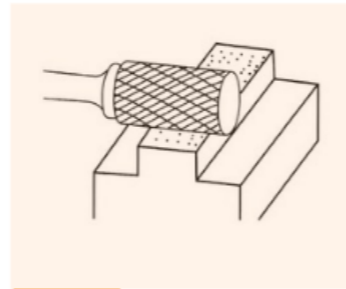
wear protective mask



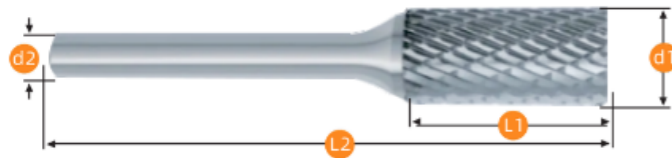
read instructions

## SA

CYLINDER WITHOUT  
END CUT



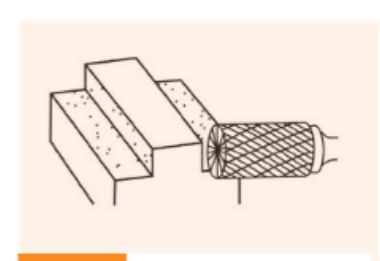
应用  
Application  
去毛刺  
Deburring



Tool No.	d1	L1	d2	L2
A0316M03	3	16	3	38
A0413M03	4	13	3	50
A0513M03	5	13	3	50
A0613M03	6	13	3	50
A0616M06	6	16	6	56
A0820M06	8	20	6	60
A1020M06	10	20	6	60
A1225M06	12	25	6	65
A1425M06	14	25	6	68
A1625M06	16	25	6	65

## SB

CYLINDER WITH END  
CUT



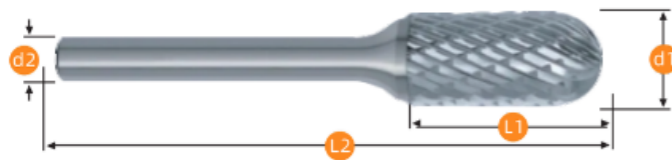
应用  
Application  
内部轮廓的工作,  
外围设备和端面铣削  
Interior contour work,  
peripheral and face milling



Tool No.	d1	L1	d2	L2
B0316M03	3	16	3	38
B0413M03	4	13	3	50
B0513M03	5	13	3	50
B0613M03	6	13	3	50
B0616M06	6	16	6	56
B0820M06	8	20	6	60
B1020M06	10	20	6	60
B1225M06	12	25	6	65
B1425M06	14	25	6	68
B1625M06	16	25	6	65

## SC

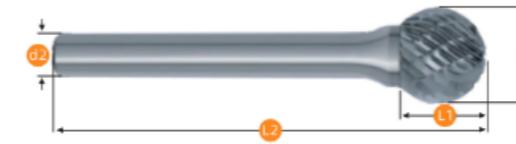
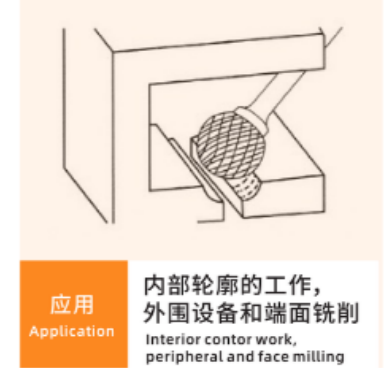
BALL NOSED  
CYLINDER



应用  
Application 轮廓加工, 去毛刺  
Deburring, contouring

## SD

BALL



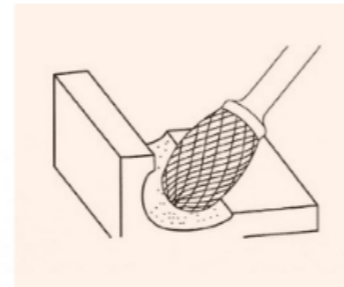
应用  
Application 内部轮廓的工作,  
外围设备和端面铣削  
Interior contour work,  
peripheral and face milling

Tool No.	d1	L1	d2	L2
C0316M03	3	16	3	38
C0413M03	4	13	3	50
C0513M03	5	13	3	50
C0613M03	6	13	3	50
C0616M06	6	16	6	56
C0820M06	8	20	6	60
C1020M06	10	20	6	60
C1225M06	12	25	6	65
C1425M06	14	25	6	68
C1625M06	16	25	6	65

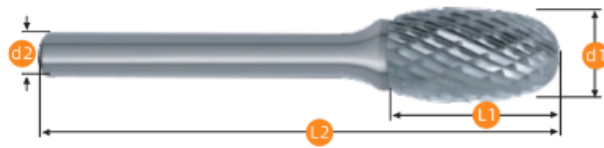
Tool No.	d1	L1	d2	L2
D0303M03	3	2.7	3	38
D0403M03	4	3.6	3	50
D0504M03	5	4	3	50
D0605M03	6	5	3	52
D0807M06	8	7.2	6	47
D1009M06	10	9	6	49
D1210M06	12	10.8	6	51
D1412M06	14	12.6	6	53
D1614M06	18	16	6	56
D1816M06	18	16	6	56

## SE

OVAL



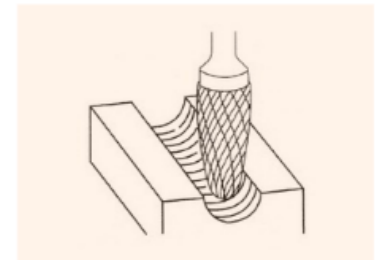
应用  
Application  
轮廓加工  
Contouring



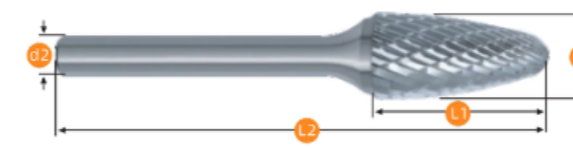
Tool No.	d1	L1	d2	L2
E0307M03	3	7	3	38
E0407M03	4	7	3	50
E0508M03	5	8	3	50
E0610M03	6	10	3	50
E0610M06	6	10	3	51
E0813M06	8	13	6	53
E1016M06	10	16	4	56
E1220M06	12	20	6	60
E1422M06	14	22	6	65
E1625M06	16	25	6	65

## SF

BALL NOSED TREE



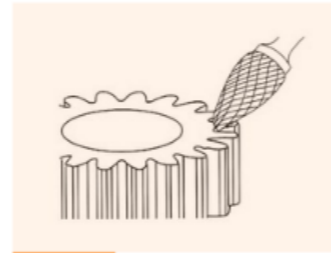
应用  
Application  
内部轮廓的工作,  
外围设备和端面铣削  
Interior contour work,  
peripheral and face milling



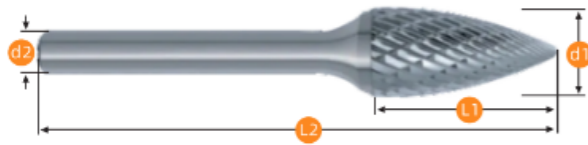
Tool No.	d1	L1	d2	L2
F0316M03	3	16	3	38
F0413M03	4	13	3	50
F0513M03	5	13	3	50
F0613M03	6	13	3	52
F0618M03	6	18	6	58
F0818M06	8	18	6	58
F1020M06	10	20	6	50
F1225M06	12	25	6	65
F1425M06	16	25	6	65
F1625M06	16	25	6	65

## SG

### POINTED TREE



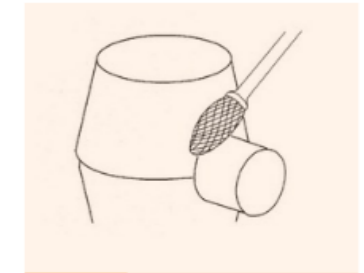
**应用**  
Application  
加工狭窄的轮廓，  
加工锐角  
Work on narrow contours,  
milling of acute-angled  
surfaces



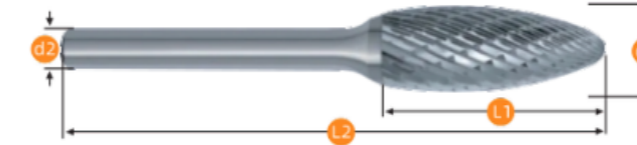
Tool No.	d1	L1	d2	L2
G0316M03	3	16	3	38
G0413M03	4	13	3	50
G0513M03	5	13	3	50
G0613M03	6	13	3	52
G0618M06	6	18	6	56
G0817M06	8	17	6	57
G1020M06	10	20	6	60
G1225M06	12	25	6	65
G1425M06	14	25	6	65
G1625M06	16	25	6	65

## SH

### FLAME



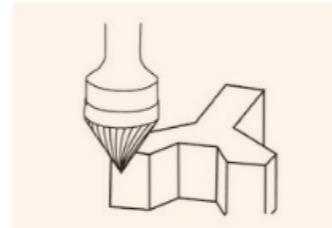
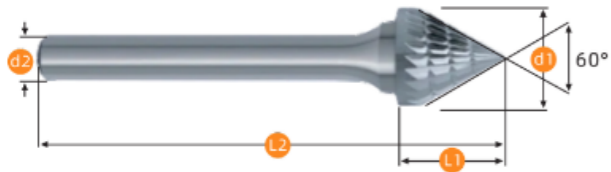
**应用**  
Application  
加工狭窄的轮廓  
Work on narrow contours



Tool No.	d1	L1	d2	L2
H0307M03	3	7	3	38
H0413M03	4	13	3	50
H0513M03	5	13	3	50
H0613M03	6	13	3	51
H0618M03	6	18	6	58
H0820M06	8	18	6	60
H1025M06	10	25	6	60
H1232M06	12	32	6	65
H1434M06	14	34	6	72
H1636M06	16	36	6	75

## SJ

### 60 COUNTERSINK

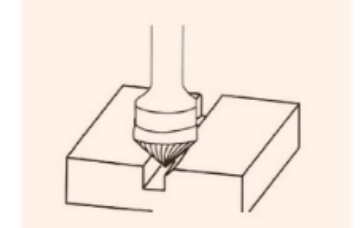
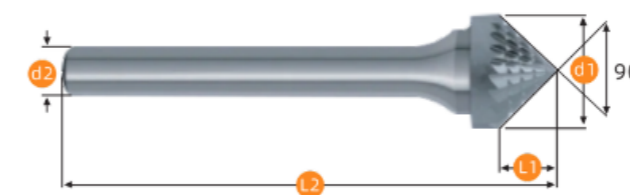


**应用**  
Application  
加工锐角领域, 扩孔, 在规定的角度坡口, 倒角  
Machining of acute-angled areas, countersinking, beveling, chamfering at defined angles

Tool No.	d1	L1	d2	L2
J0605M06	6	5.2	6	50
J0807M06	8	7	6	52
J1008M06	10	8.7	6	53
J1210M06	12	10.4	6	65
J1413M06	14	13	6	65
J1613M06	16	13.8	6	65

## SK

### 90 COUNTERSINKME

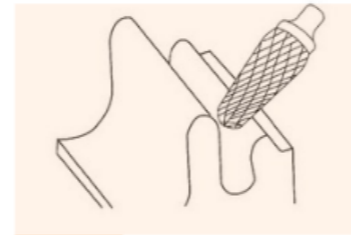


**应用**  
Application  
加工锐角领域, 扩孔, 在规定的角度坡口, 倒角  
Machining of acute-angled areas, countersinking, beveling, chamfering at defined angles

Tool No.	d1	L1	d2	L2
K0603M06	6	3	6	50
K0804M06	8	4	6	50
K1005M06	10	5	6	50
K1206M06	12	6	6	51
K1407M06	14	7	6	53
K1608M06	16	8	6	53
K1809M06	18	9	6	56
K2010M06	20	10	6	58
K2518M06	25	18	6	61

## SL

### BALL NOSE CONE



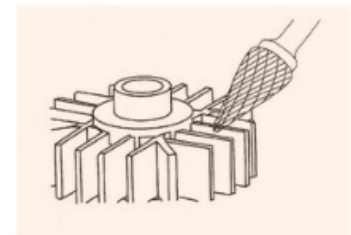
**应用**  
Application  
加工狭窄的轮廓，  
表面加工  
Work on narrow contours  
and surfaces, surface  
maching



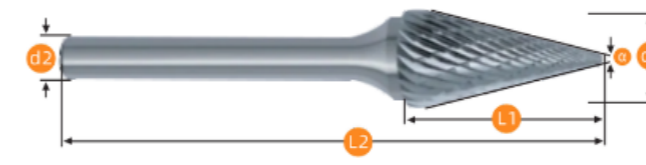
Tool No.	d1	L1	d2	L2
L0316M03	3	16	3	38
L0413M03	4	13	3	50
L0513M03	5	13	3	50
L0613M03	6	13	3	52
L0616M06	6	16	6	56
L0822M06	8	22	6	62
L1025M06	10	25	6	68
L1228M06	12	28	6	68
L1428M06	14	28	6	68
L1633M06	16	33	6	73

## SM

### CONE



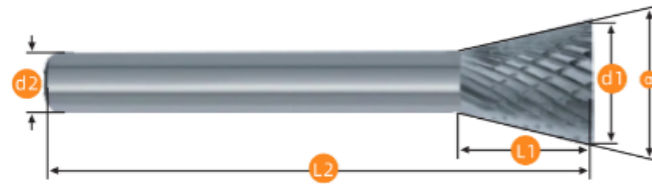
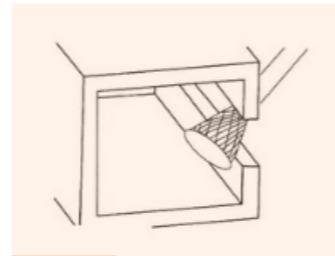
**应用**  
Application  
加工狭窄的轮廓，  
表面加工  
Work on narrow contours  
and surfaces, surface  
maching



Tool No.	d1	L1	d2	L2
M0316M03	3	16	3	38
M0413M03	4	13	3	50
M0513M03	5	13	3	50
M0613M03	6	13	3	52
M0618M06	6	18	6	58
M0817M06	8	17	6	57
M1020M06	10	20	6	60
M1225M06	12	25	6	65
M1425M06	14	25	6	68
M1625M06	16	25	6	68

## SN

INVERTED CONE

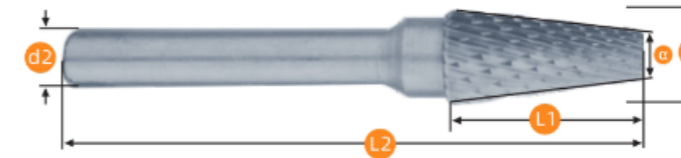
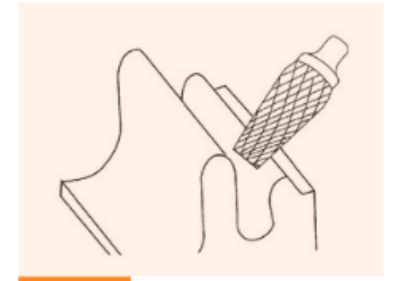


**应用**  
Application  
加工难以触及的后缘部位  
Edge machining from the rear in hard to reach areas

Tool No.	d1	L1	d2	L2
N0304M03	3	4	3	38
N0608M06	6	8	6	50
N0810M06	8	10	6	55
N1010M06	10	10	6	55
N1212M06	12	12	6	57
N1616M06	16	16	6	57
N1916M06	19	16	6	61
N2019M06	20	19	6	64

## SS

CONICAL FLAT HEAD



**应用**  
Application  
加工狭窄的轮廓，表面加工  
Work on narrow contours and surfaces, surface machining

Tool No.	d1	L1	d2	L2
S0316M03	3	16	3	38
S0413M03	4	13	3	53
S0513M03	5	13	3	53
S0613M03	6	13	6	53
S0614M03	6	14	6	54
S0817M06	8	17	8	57
S1020M06	10	20	6	60
S1220M06	12	20	6	60
S1428M06	14	28	6	68
S1205M06	12	5	6	45

## CUSTOMIZED

CUSTOM ROTARY BURRS AVAILABLE



## CARBIDE BURR SET

CUSTOMIZABLE ROTARY BURR SETS



3x3 MIXED SET



3x4 DOUBLE CUT SET



3x6 DOUBLE CUT SET



3x6 SINGLE CUT SET

## CARBIDE BURR SET

CUSTOMIZABLE ROTARY BURR SETS



8 PCS SET



5 PCS SET



10 PCS SET


## NEED SPECIAL SIZES OR TESTING SAMPLES?


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