



硬质合金旋转锉

TUNGSTEN CARBIDE ROTARY BURRS



株洲煜杰合金材料有限公司

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株洲煜杰合金材料有限公司

Zhuzhou Yujie Cemented Carbide Co.,Ltd

ZYJ Carbide

Company Profile

Zhuzhou Yujie Cemented Carbide Co.Ltd was established in 2018. With advanced production equipments and rich experience technical team,we have advantages in designing and manufacturing various carbide tools for the Automotive,Aerospace,Shipbuliding industry and so on.

The types of the products we design and manufacture include but are not limited to carbide inserts,carbide burrs,carbide end mill, carbide rod,carbide saw blade,carbide indexable woodworking inserts,carbide drill bits,carbide ball.

We place a primary focus on quality assurance.At here our quality management system concentrates on providing:

Defect free carbide products and service

Open communication with our customers in order to better understand their needs and expectations

State-of-the-art manufacturing,process control and inspection equipment

Our carbide tools mainly but are not limited to export to Mexico, USA,Peru,Russia and so on.Due to high quality and competitive price,our products are very popular in our customers' market.Any interest,welcome to send enquiry to us at any time.We will be glad to cooperate with you.

Our Mission:Quality First,Honesty and Trustworthiness,Win-win.

关于
我们



硬质合金旋转锉

Tungsten Carbide Rotary Burrs

硬质合金旋转锉，又名硬质合金高速铣刀、硬质合金模具铣刀等。在国外工业比较发达的国家，早已广泛应用，人们把它作为提高生产效率、实现钳工机械化的一个重要手段。近些年来，这种刀具在我国逐步推广应用，用户日益增多，将成为钳工及修理工的必备工具。

Carbide rotary file is also called carbide high-speed milling tool or carbide mold milling tool. In Comparatively developed countries abroad, such files have long been applied in wide fields and regarded as an important means to raise the production efficiency and realize the mechanization in bench work. In recent years, this kind of cutting tools has been gradually popularized for application with increasing users in our country and will become a necessary tool for fitters and repairmen.

硬质合金旋转锉的主要特点：

The Main Characteristics of The Carbide Rotary File Are as Follows:

- 可以加工各种金属(包括各种淬硬钢)和非金属(如大理石、玉骨)，加工工件硬度可达<HRC70
- 在极大部份工作上可取代带柄小砂轮，且无粉尘污染；
- 加工质量好，光洁度高，能加工出高精度的各种形状模具型腔；
- 使用寿命长，比高速钢刀具的耐用度高10倍，比小砂轮的耐用度高200倍以上；
- 掌握方便，使用简单，安全可靠，可减轻劳动强度，改善工作环境；
- 经济效益高，综合加工成本可降低10倍左右。硬质合金旋转锉一般用手持电动或风动工具驱动(亦可用在机床上)。电动或风动工具的转速一般为6000-50000转/分。
- It can be used to machine various metal (including all kinds of quenching steels) and nonmetal materials (such as marble, jade and bone) with hardness of the machined work piece<HRC70;
- Replace small grinding wheel with shank for a majority of work with out dust contamination;
- Giving good machining quality and high smoothness, it can be used to process mold cavities of various forms with high accuracy;
- Enjoying a long service life, it is ten times the high-speed steel cutter and more than 200 times the small grinding wheel in durability;
- It is easy to grasp and operate, safe and reliable. It can reduce labor intensity and improve working condition;
- With high economic benefit, it may have10 times reduction in cost of comprehensive process. Generally, the carbide rotary file is driven by a hand electric or pneumatic tool (can also be used on machine tools). Usually, the rotary speed of an electric or pneumatic tool is between 6,000-50,000 rpm..

硬质合金旋转锉的用途：

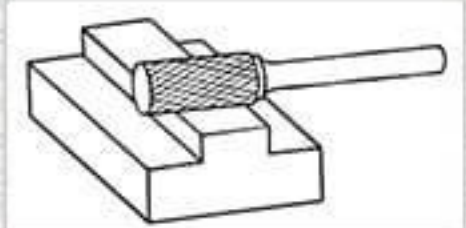
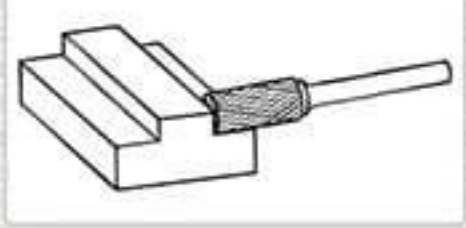
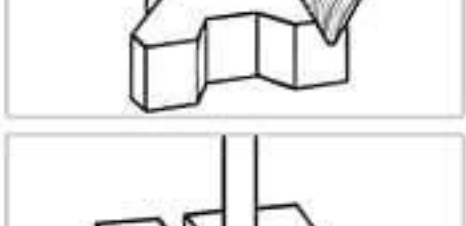
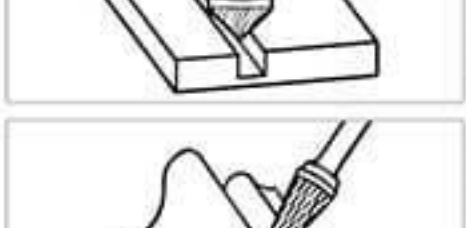
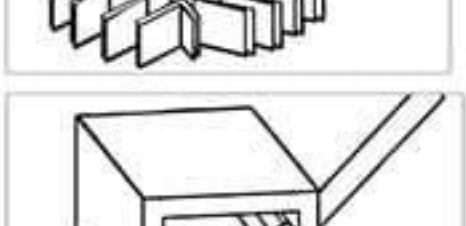
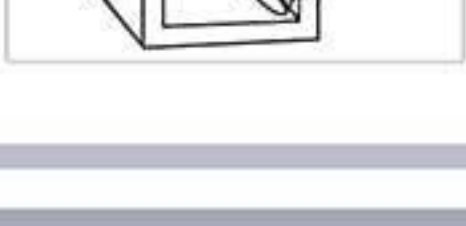
Applications of the Carbide Rotary File:

- 清理铸、锻、焊件的飞件、毛刺和焊缝。
- 精加工各种金属模具。
- 叶轮流道的光整加工。
- 各种机械零件的倒角、倒圆和沟槽加工。
- 精加工机械零件内孔表面。
- 各种金属和非金属之工艺雕刻。
- Trimming flash edges, burrs and welding lines of casting, forging and welding parts;
- Finish machining various kinds of metal molds;
- Finishing cast gates of vane wheel;
- Chamfering, rounding and channeling of various kinds of machinery parts;
- Finish machining the surface of inner bore of machinery parts;
- Artistic engraving of all kinds of metal or nonmetal parts.

硬质合金旋转锉的选择：

Choosing carbide rotary file:

	粗刀齿: 用于INOX钢, 工具钢和焊接件的力切除。 Coarse cutter tooth for effective cutting removal of INOX steel, tool steel and welding parts.
	标准齿: 用于不锈钢, 淬火钢和铸铁的精加工。 Standard tooth for finish machining of stainless steel, hardened steel and cast iron.
	通用切齿: 可交替用于软硬材料的切削。 General-purpose cutter tooth may be alternatively used for cutting soft and hard materials.
	特殊刀齿: 用于铜、青铜和铝合金切削。 Special cutter tooth for cutting copper, bronze and aluminum alloy.
	菱形齿: 对极硬合金, 焊缝, 铸铁的粗加工和精加工特别有效。粉碎的切削, 可避免对操纵者的伤害。 Rhombic tooth is especially effective for rough machining and finish machining of extra hard alloy, welding line and cast iron. Smashing cut may avoid hurt to the operator.
	断屑刀齿: 用于未淬硬钢焊缝加工。 Discontinuous chip cutter tooth for machining non-hardened hard steel and cast steel welding lines.

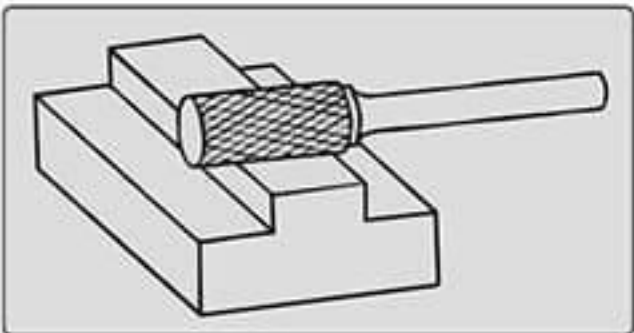
头部形状 Head Shape	头型 Head Stules	头码 Head Code	图示 Diagram	应用 Application
	平头圆柱形 Cylindrical Plain End	A		去毛刺 Deburring
	顶头带齿圆柱形 Cylindrical With End Cut	B		内部轮廓的工作, 外围设备和端面铣削。 Interior contour work, peripheral and face milling.
	圆柱形球头 Cylindrical Ball Nose	C		去毛刺, 轮廓加工。 Deburring, Comtouring.
	圆球形 Ball	D		轮廓加工, 去毛刺。 Contouring; Bore deburring, Milling in preparation of build-up welding.
	椭圆形 Oval	E		轮廓加工 Comtouring
	弧形圆头 Arch Ball Nose	F		内部轮廓的工作, 外围设备和端面铣削。 Interior contour work, peripheral and face milling.
	弧形尖头 Arch Pointed Nose	G		加工狭窄的轮廓, 加工锐角。 Work on narrow contours, Milling of acute-angled surfaces.
	火炬形 Flame	H		加工狭窄的轮廓。 Work on narrow contours.
	60° 圆锥形 60° Cone	J		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
	90° 圆锥形 90° Cone	K		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
	锥形球头 Conical Ball Nose	L		加工狭窄的轮廓; 表面加工 Work on narrow contours and surfaces; Surface machining
	锥形尖头 Conical Pointed Nose	M		加工狭窄的轮廓; 表面加工 Work on narrow contours; Surface machining
	倒锥形 Inverted Cone	N		加工难以触及的后缘部位。 Edge machining from the rear in hard to reach areas.

平头圆柱形
 Cylindrical Plain End

形状:
 Shape:

A

推荐 Recommended for



应用: 去毛刺。
 Application: Deburring.



产品编码 Product code	货描 (单位 : mm) Cargo description (unit : mm)			
	头部直径 Head diameter	头部长度 Head length	柄径 Shank diameter	总长 Total length
A0313-SC	3	13	3	38
A0616-SC	6	16	6	61
A0820-SC	8	20	6	65
A1020-SC	10	20	6	65
A1225-SC	12	25	6	70
A1625-SC	16	25	6	70
A0313-SM	3	13	3	38
A0616-SM	6	16	6	61
A0820-SM	8	20	6	65
A1020-SM	10	20	6	65
A1225-SM	12	25	6	70
A1625-SM	16	25	6	70
A0313-AC	3	13	3	38
A0616-AC	6	16	6	61
A0820-AC	8	20	6	65
A1020-AC	10	20	6	65
A1225-AC	12	25	6	70
A1625-AC	16	25	6	70

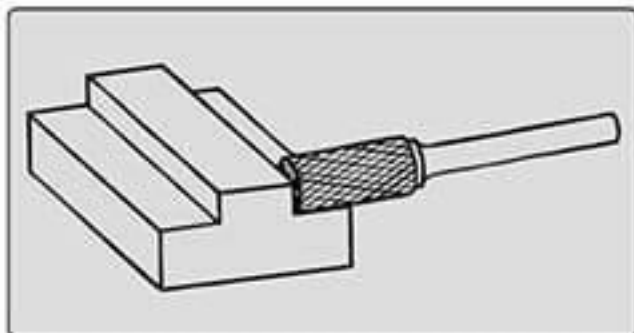
注：可用于非标准尺寸
 Note : Non standard size availabl.

顶头带齿圆柱形
 Cylindrical With End Cut

形状:
 Shape:

B

推荐 Recommended for



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



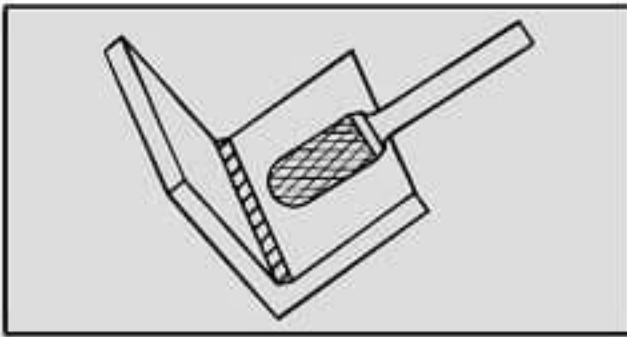
产品编码 Product code	货描 (单位 : mm) Cargo description (unit : mm)			
	头部直径 Head diameter	头部长度 Head length	柄径 Shank diameter	总长 Total length
B0313-SC	3	13	3	38
B0616-SC	6	16	6	61
B0820-SC	8	20	6	65
B1020-SC	10	20	6	65
B1225-SC	12	25	6	70
B1625-SC	16	25	6	70
B0313-SM	3	13	3	38
B0616-SM	6	16	6	61
B0820-SM	8	20	6	65
B1020-SM	10	20	6	65
B1225-SM	12	25	6	70
B1625-SM	16	25	6	70
B0313-AC	3	13	3	38
B0616-AC	6	16	6	61
B0820-AC	8	20	6	65
B1020-AC	10	20	6	65
B1225-AC	12	25	6	70
B1625-AC	16	25	6	70

注：1、编码中SC表示为单刃，使用时更锋利，加工下来的金属呈丝状。
 2、编码中SM表示为双刃，散热效果良好，加工下来的金属呈颗粒状，更安全。
 3、编码中AC表示为粗刃，用于打磨铝、铜等材料较软的有色金属。
 Note : 1、SC: Single flute. Application: sharp, filamentous when cutting metal.
 2、SM: Double flute, Application: excellent heat dissipation, more safe when cutting.
 3、AC: Rough flute. Application: burnishing for aluminum, copper and other softer non-ferrous metal.

圆柱形球头
 Cylindrical Ball Nose

形状: **C**
 Shape:

推荐 Recommended for



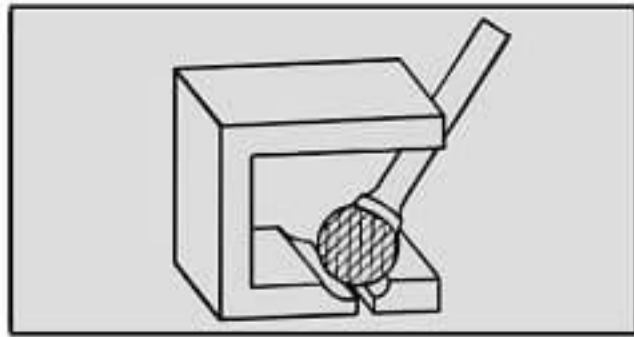
应用: 去毛刺, 轮廓加工。
 Application: Deburring.
 Comtouring.



圆球形
 Ball

形状: **D**
 Shape:

推荐 Recommended for



应用: 轮廓加工, 去毛刺。
 Application:
 • Contouring
 • Bore deburring
 • Milling in preparation of build-up welding



产品编码 Product code	货描 (单位 : mm) Cargo description (unit : mm)			
	头部直径 Head diameter	头部长度 Head length	柄径 Shank diameter	总长 Total length
C0313-SC	3	13	3	38
C0616-SC	6	16	6	61
C0820-SC	8	20	6	65
C1020-SC	10	20	6	65
C1225-SC	12	25	6	70
C1625-SC	16	25	6	70
C0313-SM	3	13	3	38
C0616-SM	6	16	6	61
C0820-SM	8	20	6	65
C1020-SM	10	20	6	65
C1225-SM	12	25	6	70
C1625-SM	16	25	6	70
C0313-AC	3	13	3	38
C0616-AC	6	16	6	61
C0820-AC	8	20	6	65
C1020-AC	10	20	6	65
C1225-AC	12	25	6	70
C1625-AC	16	25	6	70

注 : 可用于非标准尺寸
 Note : Non standard size availabl.

产品编码 Product code	货描 (单位 : mm) Cargo description (unit : mm)			
	头部直径 Head diameter	头部长度 Head length	柄径 Shank diameter	总长 Total length
D0303-SC	3	3	3	38
D0605-SC	6	5	6	50
D0807-SC	8	7	6	52
D1009-SC	10	9	6	54
D1210-SC	12	10	6	55
D1614-SC	16	14	6	60
D0303-SM	3	3	3	38
D0605-SM	6	5	6	50
D0807-SM	8	7	6	52
D1009-SM	10	9	6	54
D1210-SM	12	10	6	55
D1614-SM	16	14	6	60
D0303-AC	3	3	3	38
D0605-AC	6	5	6	50
D0807-AC	8	7	6	52
D1009-AC	10	9	6	54
D1210-AC	12	10	6	55
D1614-AC	16	14	6	60

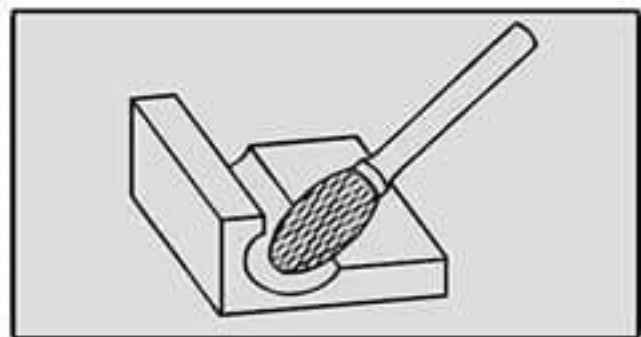
注 : 1、编码中SC表示为单刃, 使用时更锋利, 加工下来的金属呈丝状。
 2、编码中SM表示为双刃, 散热效果良好, 加工下来的金属呈颗粒状, 更安全。
 3、编码中AC表示为粗刃, 用于打磨铝、铜等材料较软的有色金属。
 Note : 1、SC: Single flute. Application: sharp, filamentous when cutting metal.
 2、SM: Double flute, Application: excellent heat dissipation, more safe when cutting.
 3、AC: Rough flute. Application: burnishing for aluminum, copper and other softer non-ferrous metal.

椭圆形
Oval

形状:
Shape:

E

推荐 Recommended for



应用: 轮廓加工。

Application: Comtouring.



产品编码 Product code	货描 (单位 : mm) Cargo description (unit : mm)			
	头部直径 Head diameter	头部长度 Head length	柄径 Shank diameter	总长 Total length
E0306-SC	3	6	3	38
E0610-SC	6	10	6	55
E0813-SC	8	13	6	58
E1016-SC	10	16	6	61
E1220-SC	12	20	6	65
E1625-SC	16	25	6	70
E0306-SM	3	6	3	38
E0610-SM	6	10	6	55
E0813-SM	8	13	6	58
E1016-SM	10	16	6	61
E1220-SM	12	20	6	65
E1625-SM	16	25	6	70
E0306-AC	3	6	3	38
E0610-AC	6	10	6	55
E0813-AC	8	13	6	58
E1016-AC	10	16	6	61
E1220-AC	12	20	6	65
E1625-AC	16	25	6	70

注：可用于非标准尺寸

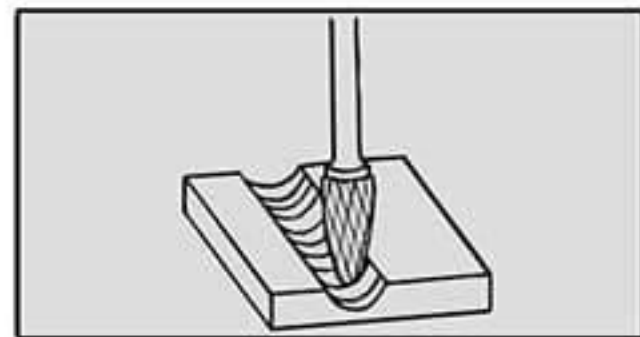
Note : Non standard size availabl.

弧形圆头
Arch Ball Nose

形状:
Shape:

F

推荐 Recommended for



应用: 内部轮廓的工作，
外围设备和端面铣削。

Application: Interior contour work,
peripheral and face milling.



产品编码 Product code	货描 (单位 : mm) Cargo description (unit : mm)			
	头部直径 Head diameter	头部长度 Head length	柄径 Shank diameter	总长 Total length
F0313-SC	3	13	3	38
F0618-SC	6	18	6	63
F0820-SC	8	20	6	65
F1020-SC	10	20	6	65
F1225-SC	12	25	6	70
F1625-SC	16	25	6	70
F0313-SM	3	13	3	38
F0618-SM	6	18	6	63
F0820-SM	8	20	6	65
F1020-SM	10	20	6	65
F1225-SM	12	25	6	70
F1625-SM	16	25	6	70
F0313-AC	3	13	3	38
F0618-AC	6	18	6	63
F0820-AC	8	20	6	65
F1020-AC	10	20	6	65
F1225-AC	12	25	6	70
F1625-AC	16	25	6	70

注：1、编码中SC表示为单刃，使用时更锋利，加工下来的金属呈丝状。

2、编码中SM表示为双刃，散热效果良好，加工下来的金属呈颗粒状，更安全。

3、编码中AC表示为粗刃，用于打磨铝、铜等材料较软的有色金属。

Note : 1、SC: Single flute. Application: sharp, filamentous when cutting metal.

2、SM: Double flute, Application: excellent heat dissipation, more safe when cutting.

3、AC: Rough flute. Application: burnishing for aluminum, copper and other softer non-ferrous metal.

弧形尖头
Arch Pointed Nose

形状:
Shape: **G**

推荐 Recommended for



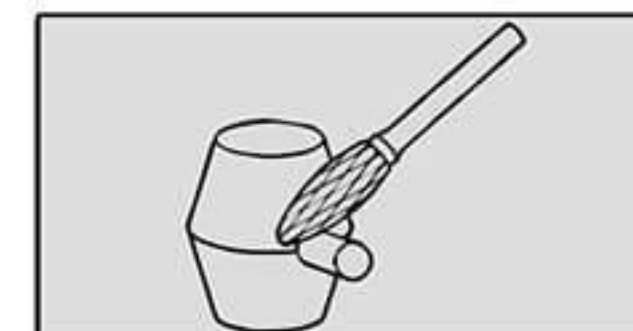
应用: 加工狭窄的轮廓, 加工锐角。
Application: Work on narrow contours.
Milling of acute-angled surfaces.



火炬形
Flame

形状:
Shape: **H**

推荐 Recommended for



应用: 加工狭窄的轮廓。
Application: Work on narrow contours.



产品编码 Product code	货描 (单位: mm) Cargo description (unit: mm)			
	头部直径 Head diameter	头部长度 Head length	柄径 Shank diameter	总长 Total length
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G0618-SC	6	18	6	63
G0820-SC	8	20	6	65
G1020-SC	10	20	6	65
G1225-SC	12	25	6	70
G1625-SC	16	25	6	70
G0313-SM	3	13	3	38
G0618-SM	6	18	6	63
G0820-SM	8	20	6	65
G1020-SM	10	20	6	65
G1225-SM	12	25	6	70
G1625-SM	16	25	6	70
G0313-AC	3	13	3	38
G0618-AC	6	18	6	63
G0820-AC	8	20	6	65
G1020-AC	10	20	6	65
G1225-AC	12	25	6	70
G1625-AC	16	25	6	70

注: 可用于非标准尺寸
Note: Non standard size availabl.

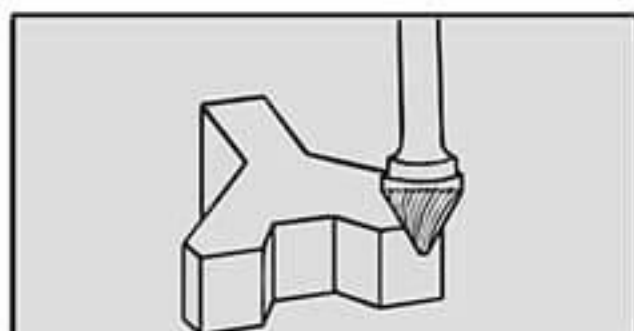
产品编码 Product code	货描 (单位: mm) Cargo description (unit: mm)			
	头部直径 Head diameter	头部长度 Head length	柄径 Shank diameter	总长 Total length
H0307-SC	3	7	3	38
H0618-SC	6	18	6	63
H0820-SC	8	20	6	65
H1025-SC	10	25	6	70
H1232-SC	12	32	6	77
H1636-SC	16	36	6	81
H0307-SM	3	7	3	52
H0618-SM	6	18	6	63
H0820-SM	8	20	6	65
H1025-SM	10	25	6	70
H1232-SM	12	32	6	77
H1636-SM	16	36	6	81
H0307-AC	3	7	3	52
H0618-AC	6	18	6	63
H0820-AC	8	20	6	65
H1025-AC	10	25	6	70
H1232-AC	12	32	6	77
H1636-AC	16	36	6	81

注: 1、编码中SC表示为单刃, 使用时更锋利, 加工下来的金属呈丝状。
2、编码中SM表示为双刃, 散热效果良好, 加工下来的金属呈颗粒状, 更安全。
3、编码中AC表示为粗刃, 用于打磨铝、铜等材料较软的有色金属。
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3、AC: Rough flute. Application: burnishing for aluminum, copper and other softer non-ferrous metal.

60° 圆锥形
60° Cone

形状: J
Shape:

推荐 Recommended for



应用:

- 加工锐角领域
- 扩孔
- 在规定的角度坡口/倒角

Application:

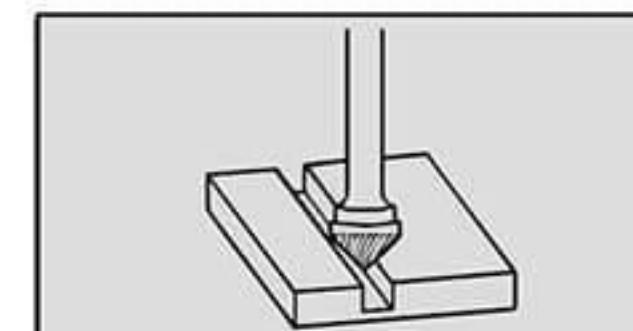
- Machining of acute-angled areas
- Countersinking
- Beveling/chamfering at defined angles



90° 圆锥形
90° Cone

形状: K
Shape:

推荐 Recommended for



应用:

- 加工锐角领域
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- 在规定的角度坡口/倒角

Application:

- Machining of acute-angled areas
- Countersinking
- Beveling/chamfering at defined angles



产品编码 Product code	货描 (单位: mm) Cargo description (unit: mm)			
	头部直径 Head diameter	头部长度 Head length	柄径 Shank diameter	总长 Total length
J0302-SC	3	2	3	38
J0605-SC	6	5	6	55
J0807-SC	8	7	6	57
J1008-SC	10	8	6	58
J1210-SC	12	10	6	60
J1613-SC	16	13	6	62
J0302-SM	3	2	3	38
J0605-SM	6	5	6	55
J0807-SM	8	7	6	57
J1008-SM	10	8	6	58
J1210-SM	12	10	6	60
J1613-SM	16	13	6	62

注: 可用于非标准尺寸
Note: Non standard size availabl.

产品编码 Product code	货描 (单位: mm) Cargo description (unit: mm)			
	头部直径 Head diameter	头部长度 Head length	柄径 Shank diameter	总长 Total length
K0301-SC	3	1.5	3	38
K0603-SC	6	3	6	51
K0804-SC	8	4	6	54
K1005-SC	10	5	6	55
K1306-SC	13	6	6	57
K1608-SC	16	8	6	60
K0301-SM	3	1.5	3	38
K0603-SM	6	3	6	51
K0804-SM	8	4	6	54
K1005-SM	10	5	6	55
K1306-SM	13	6	6	57
K1608-SM	16	8	6	60

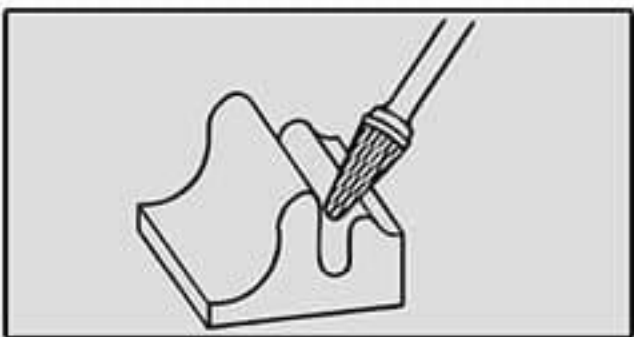
注: 1、编码中SC表示为单刃, 使用时更锋利, 加工下来的金属呈丝状。
2、编码中SM表示为双刃, 散热效果良好, 加工下来的金属呈颗粒状, 更安全。
3、编码中AC表示为粗刃, 用于打磨铝、铜等材料较软的有色金属。

Note: 1、SC: Single flute. Application: sharp, filamentous when cutting metal.
2、SM: Double flute, Application: excellent heat dissipation, more safe when cutting.
3、AC: Rough flute. Application: burnishing for aluminum, copper and other softer non-ferrous metal.

锥形球头
Conical Ball Nose

形状: **L**
Shape:

推荐 Recommended for



- 应用:
- 在狭窄的轮廓?表面工作
 - 表面加工
- Application:
- Work on narrow contours and surfaces
 - Surface machining



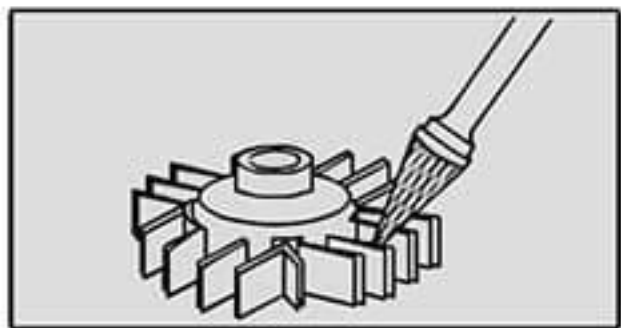
产品编码 Product code	货描 (单位 : mm) Cargo description (unit : mm)			
	头部直径 Head diameter	头部长度 Head length	柄径 Shank diameter	总长 Total length
L0313-SC	3	13	3	38
L0616-SC	6	16	6	61
L0822-SC	8	22	6	67
L1025-SC	10	25	6	70
L1228-SC	12	28	6	73
L1633-SC	16	33	6	78
L0313-SM	3	13	3	38
L0616-SM	6	16	6	61
L0822-SM	8	22	6	67
L1025-SM	10	25	6	70
L1228-SM	12	28	6	73
L1633-SM	16	33	6	78
L0313-AC	3	13	3	38
L0616-AC	6	16	6	61
L0822-AC	8	22	6	67
L1025-AC	10	25	6	70
L1228-AC	12	28	6	73
L1633-AC	16	33	6	78

注：可用于非标准尺寸
Note : Non standard size availabl.

锥形尖头
Conical Pointed Nose

形状: **M**
Shape:

推荐 Recommended for



- 应用:
- 在狭窄的轮廓
 - 表面加工
- Application:
- Work on narrow contours
 - Surface machining



产品编码 Product code	货描 (单位 : mm) Cargo description (unit : mm)			
	头部直径 Head diameter	头部长度 Head length	柄径 Shank diameter	总长 Total length
M0316-SC	3	16	3	38
M0618-SC	6	18	6	63
M0820-SC	8	17	6	62
M1020-SC	10	20	6	65
M1225-SC	12	25	6	70
M1625-SC	16	25	6	70
M0316-SM	3	16	3	38
M0618-SM	6	18	6	63
M0820-SM	8	17	6	62
M1020-SM	10	20	6	65
M1225-SM	12	25	6	70
M1625-SM	16	25	6	70
M0316-AC	3	16	3	38
M0618-AC	6	18	6	63
M0820-AC	8	17	6	62
M1020-AC	10	20	6	65
M1225-AC	12	25	6	70
M1625-AC	16	25	6	70

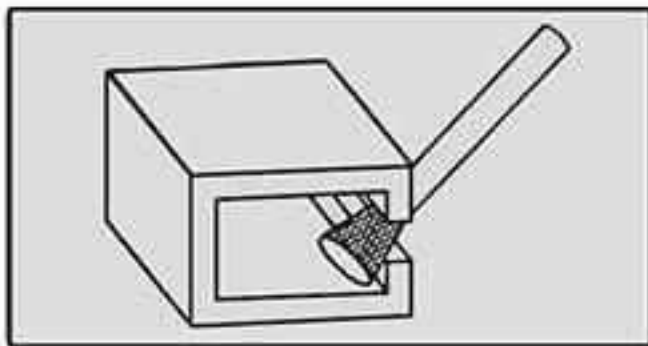
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倒锥形
Inverted Cone

形状:
Shape: **N**

推荐 Recommended for



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



产品编码 Product code	货描 (单位: mm) Cargo description (unit: mm)			
	头部直径 Head diameter	头部长度 Head length	柄径 Shank diameter	总长 Total length
N0304-SC	3	4	3	38
N0607-SC	6	7	6	52
N0809-SC	8	9	6	54
N1011-SC	10	11	6	56
N1213-SC	12	13	6	58
N1616-SC	16	16	6	61
N0304-SM	3	4	3	38
N0607-SM	6	7	6	52
N0809-SM	8	9	6	54
N1011-SM	10	11	6	56
N1213-SM	12	13	6	58
N1616-SM	16	16	6	61
N0304-AC	3	4	3	38
N0607-AC	6	7	6	52
N0809-AC	8	9	6	54
N1011-AC	10	11	6	56
N1213-AC	12	13	6	58
N1616-AC	16	16	6	61

注: 可用于非标准尺寸
Note: Non standard size availabl.



✓ **Carbide Tools**

*Carbide Burrs, End Mill, Inserts,
Blade, Drill, Rod, Ball etc.*



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as required sizes
Also other carbide tools
supplied

