



常州市鹏锦精密工具有限公司
Changzhou Handerk Precision Tools Co., Ltd.



2023 CATALOG

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公司简介 COMPANY PROFILE



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常州市鹏锦精密工具有限公司，地处中国工具名镇——西夏墅，环境优雅，交通便利。公司创立于2000年，专业生产CNC切削工具包括合金铣刀、合金钻头、刀片刀粒等，有较完善的产品研发、制造、销售能力，率先通过了ISO9001：2018国际质量管理体系认证。

截至目前，公司运营总资产2亿多人民币，三个分厂总面积达6000平，员工120余人。160台国产及进口设备，其中包括SAGE、WALTER、ANCA，分别生产制造不同的产品，每种产品规格库存上千。

秉承“产品和服务是企业生命力”的信念，HANDERK不断了解客户和市场需求，加强团队技术建设，提高制造技术实力，改善生产制造工艺，积极研发新产品，以提升我们的专业度和创新能力。除了提供高质量的产品和技术解决方案，我们希望为合作伙伴们提供更多业务帮助，实现共同发展、合作共赢。

“

Changzhou HANDERK Precision Tools Co., Ltd. is located in Xixashu, a famous tool town in China, with elegant environment and convenient transportation. Founded in 2000, the company specializes in the production of CNC cutting tools including Carbide End Mills, Carbide Drills, Carbide Inserts, etc. We have relatively complete product development, manufacturing, and sales capabilities, and has taken the lead in passing the ISO9001: 2018 international quality management system certification.

Up to now, HANDERK has a total asset of more than 200 million RMB, three branch factories with a total area of 6,000 square meters and over 120 employees. 160 sets of domestic and imported equipment, including SAGE, WALTER, and ANCA, manufacture different products respectively, with thousands of stocks for each product specification.

Adhering to the belief that "Products and services are the vitality of the enterprise", HANDERK is keeping to understand the needs of customers and the market, strengthens the technical construction of the team, improves the strength of manufacturing technology, production and manufacturing process, and actively develops new products to enhance our professionalism and innovation capabilities. In addition to providing high-quality products and technical solutions, we hope to provide more business assistance to our partners to achieve common development and win-win cooperation.



1.公司主要产品 / Main Products

硬质合金圆棒，钨钢平刀、钨钢球刀、钨钢圆鼻刀，铝用平刀，铝用球刀、铝用圆鼻刀，倒角刀，定点钻，合金钻头，深沟刀，粗皮刀，非标订做，常用规格备有大量现货，并可根据客户要求定制各类非标合金产品。

产品广泛应用于:航空航天业、汽车、摩托车行业、电器电子、重大机械制造行业、广告家具行业、等等

Carbide rod, Carbide Square End Mill, Ball Nose End Mill, Coner Radius End Mill, Square/Ball Nose/Corner Radius End Mill for Aluminum, Chamfer Tool, Sport Drill, Carbide Drill Bit, Long Neck End Mill, Roughing End Mill, non-standard products, common specifications are available in large quantities, and various non-standard products can be customized according to customer requirements. Products are widely used in: aerospace industry, automobile, motorcycle industry, electrical appliances and electronics, major machinery manufacturing industry, advertising furniture industry, etc.....

2.内销部分 / Domestic Sales

全国各地区线下有经销，线上淘宝天猫等7家店铺，主要销售地区为浙江、广东、河北等。

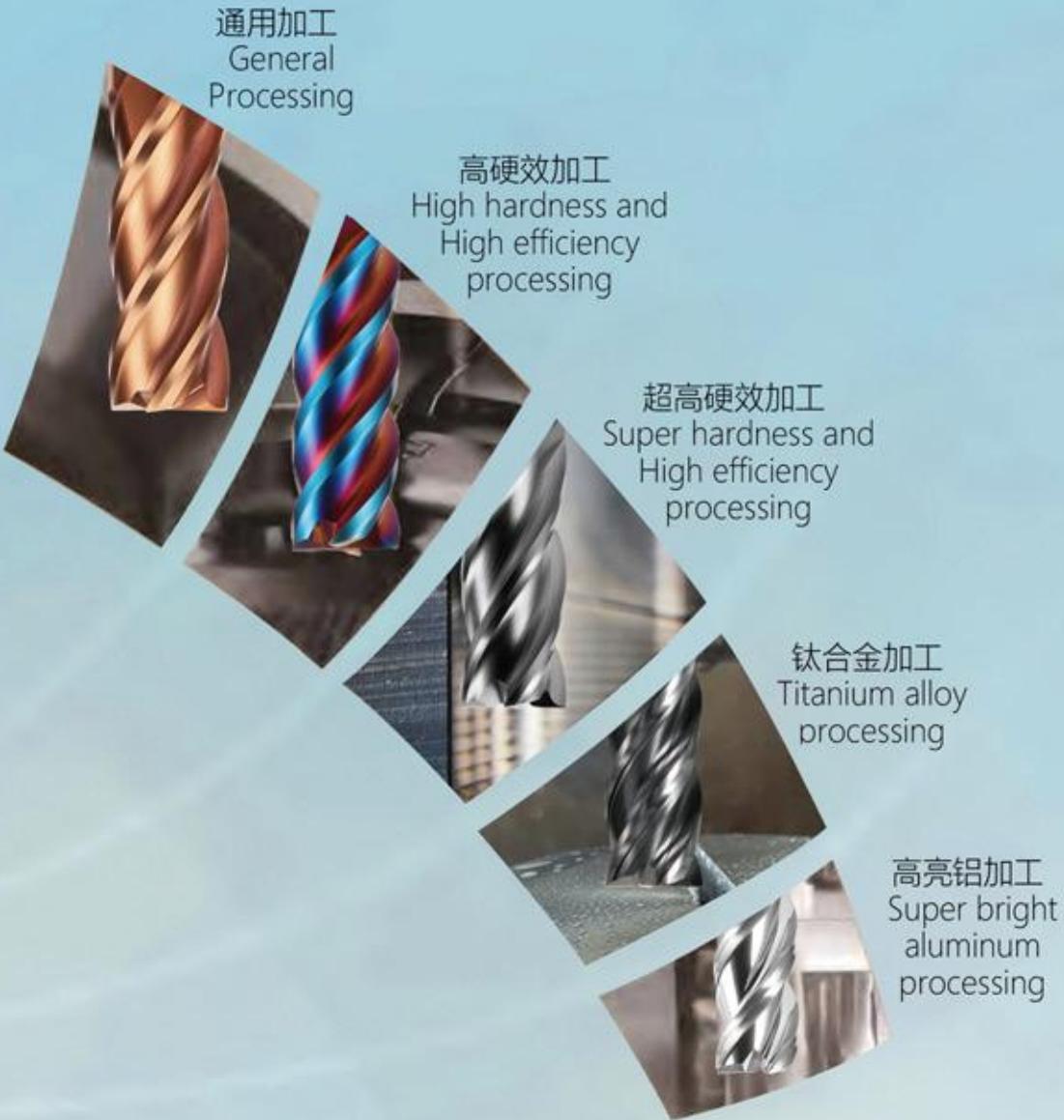
There are 7 stores including offline distribution, online Taobao and Tmall in all regions of the country. The main sales areas are Zhejiang, Guangdong, Hebei, etc.

3.出口部分 / Export Section

全球80多个国家，划分主要有: 俄罗斯、印尼、印度、美国、墨西哥、越南、马来西亚、泰国等地区。

There are more than 80 countries in the world, mainly divided into: Russia, Indonesia, India, the United States, Mexico, Vietnam, Malaysia, Thailand and other regions.





各种各样的整体立铣刀 ALL KINDS OF SOLID CARBIDE END MILLS

• 通用系列 General Series

兼具高灵活性和高经济且品种规格齐全的高性能产品。

High performance products with high flexibility, high economy and complete specifications.

• 专用系列 Special Series

满足特定需要并且具有高效，可靠和耐用特性的独特的优质刀具。

A unique quality tool that meets specific needs and has high efficiency, reliability, and durability.

• 定制解决方案 Customized Solutions

特别设计以满足高性能需求的定制产品和高级非标产品。

Specially designed to meet high performance requirements of custom products and advanced non-standard products.



HRC45-普通钢，铸铁材料的加工系列

Suitable for ordinary steel, cast iron material processing series

非常适合普通钢，铸铁材料的加工

The special tool design is very suitable for ordinary steel, cast iron material processing

切削参数

Cutting Parameters: P9-16



HRC55-各种钢材的通用加工系列

Suitable for various steels universal processing series

大的螺旋角和特殊刃型设计，非常适合各种钢材的通用加工

The design of large helix angle and special edge, very suitable for all kinds of steel general processing

切削参数

Cutting Parameters: P20-27



HRC65-不锈钢，铸铁材料的高硬效加工系列

Suitable for stainless steel, cast iron high-efficiency processing series

非常适合不锈钢，铸铁材料的加工

The special tool design is very suitable for stainless steel, cast iron material processing

切削参数

Cutting Parameters: P30-35



ST-H系列-硬钢，模具钢，热处理钢材料的高速高效加工

Suitable for hard steel, mold steel, and heat-treated steel material high-speed and efficient processing

特殊的刀具设计，非常适合硬钢，模具钢，热处理材料的高效高速加工

The special tool design is very suitable for high-efficiency and high-speed cutting of hard steel, mold steel, and heat-treated material processing

切削参数

Cutting Parameters: P38-41



ST-U系列-不锈钢，钛合金，模具钢材料的高速高效加工

Suitable for stainless steel, titanium alloy, and mold steel material high-speed and efficient processing

非常适合不锈钢，钛合金，模具钢材料的加工

The special tool design is very suitable for processing stainless steel, titanium alloy, and mold steel materials

切削参数

Cutting Parameters: P44-45



AL-超亮铝通用加工系列

Super bright aluminum processing series

适用于铝合金材料的高效超亮加工

Applicable to aluminum alloy material efficient ultra-bright processing

切削参数

Cutting Parameters: P48-55





CPD-钢，铸铁材料的粗加工系列

Rough processing for steel and cast iron material series

非常适合硬钢，铸铁材料的粗加工

Suitable for roughing of hard steel and cast iron

切削参数

Cutting Parameters: P59-61



SGXJ-高精度深沟加工系列

Suitable for High-precision micro diameter pocket machining series

XJ

微小径平头 Micropath flat head



SG

深沟平头 Deep groove flat head



XJ

微小径球头 Micropath ball head



SG

深沟球刀头 Deep groove ball head



切削参数

Cutting Parameters: P64-67



DJD-钢，铸铁材料的加工系列

Suitable for steel and cast iron material processing series

非常适合钢，铸铁材料的加工 Suitable for steel and cast iron

切削参数

Cutting Parameters: P69-71



DXZ-钢，铸铁材料的加工系列

Suitable for steel and cast iron material processing series

非常适合钢，铸铁材料的加工 Suitable for steel and cast iron

切削参数

Cutting Parameters: P73-75



NRD-钢，铸铁材料的加工系列

Suitable for steel and cast iron material processing series

非常适合钢，铸铁材料的加工 Suitable for steel and cast iron

切削参数

Cutting Parameters: P77-78





TXD-各种钢材的通用加工系列

Suitable for various steels universal processing series

非常适合各种钢材的通用加工

The special tool design is very suitable for various steels universal processing

切削参数

Cutting Parameters: P80-81



YWXD-各种钢材的通用加工系列

Suitable for various steels universal processing series

非常适合各种钢材的通用加工

The special tool design is very suitable for various steels universal processing

切削参数

Cutting Parameters: P82-83



LWXD-各种钢材的通用加工系列

Suitable for various steels universal processing series

非常适合各种钢材的通用加工

The special tool design is very suitable for various steels universal processing

切削参数

Cutting Parameters: P85-86



ZT-各种钢材的通用加工系列

Suitable for various steels universal processing series

非常适合各种钢材的通用加工

The special tool design is very suitable for various steels universal processing

切削参数

Cutting Parameters: P88-93



图标类型和标识

Icon Type And Identification

被加工材料 Processed Material

P	钢和高合金钢	Steel, high-alloyed	P
M	不锈钢	Stainless steel	M
K	灰铸铁, 可锻铸铁和球墨铸铁	Grey cast iron, spheroidal graphite iron/malleable cast iron	K
N	铝合金及其它有色金属	Aluminium and other non-ferrous metals	N
S	特殊合金, 镍基合金以及钛合金	Special, super and titanium alloys	S
H	硬化钢及硬化铸铁	Hardened steel and chilled cast iron	H

图标 Icons

切削方式 Cutting Wethod																
	侧铣 Side Milling	槽铣 Slot Milling	仿形 Profiling	台阶 Step Milling	粗加工 Roughing	螺旋 Helix	钻铣 Drilling									
涂层 Coating																
系列 Series																
柄部 Shank																
刃长 Blade Length																
	短 Short	标准 Standard	长 Long													
刃数 No. of Flutes																
	2刃 2Flute	3刃 3Flute	4刃 4Flute													
类型 Type																
	2刃平头 2Flute, Square	3刃球头 3Flute, Square	4刃球头 4Flute, Square													
	2刃球头 2Flute, Ballnose															
	2刃圆弧 2Flute, Corner-Radius	4刃圆弧 4Flute, Corner-Radius														
螺旋角 Helix																
	35°	45°														
底刃形状 Endteeth Type																
	平头 Square	圆角头 Corner-R	球头 Ballnose	刀尖倒角 Chamfer												

新型涂层 NEW COATING

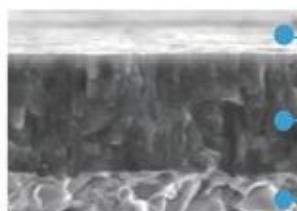
新开发的NACO4涂层具有更高的耐磨性。

涂层的平滑处理降低了切削阻力并显著改善了排屑。

这种下一代涂层在加工难切削材料时提供了更长的刀具寿命和更高的效率。

Newly-developed NACO4 coating with improved wear resistance.

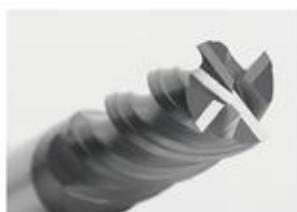
The smoothing treatment of the coating layer reduces the cutting resistance and improves chip discharge significantly. This next-generation coating offers longer tool life and higher efficiency in machining difficult-to-cut materials.



平滑表面
Smoothed Surface

新开发的NACO4涂层
Newly Developed NACO4 Coating

超精细基材
Ultrafine Substrates



独创的表面处理技术

光滑的表面和锋利的边缘得到了很好的平衡，可以顺畅地排屑并降低切削阻力，从而提高加工效率和刀具寿命。

Unique surface treatment technology

A good balance of smooth surfaces and sharp edges enables smooth chip evacuation and reduced cutting resistance, increasing machining efficiency and tool life.



彩色涂层 DLC COATING

硬度与 CVD 金刚石涂层相似，具有高附着强度。

Hardness similar to that of CVD diamond coating achieved with high adhesion strength.

古铜纳米涂层 ALTIN+TISIN COATING

该涂层耐高温性能良好，具有低磨擦系数等特点，在高速钢或硬质合金钻头上涂层，适用于深孔钻铣加工

The coating has good high temperature resistance and low friction coefficient. It is suitable for coating on high-speed steel or carbide drill bits, and is suitable for deep hole drilling and milling.

蓝纳米涂层 TIALSIN COATING

该涂层在钻铣铸铁或普通钢性能良好，减少粘刀现象。在高速钢或硬质合金钻头上涂层，适用于深孔钻铣加工

The coating has good performance in drilling and milling cast iron or ordinary steel, reducing the phenomenon of sticking. Suitable for coating on HSS or carbide drills; also suitable for deep hole drilling and milling

黑色涂层 ALTIN COATING

该涂层在切削硬度介于45HRC与50HRC等难加工材料上能发挥出优秀的性能；特别适用于高速切削加工

The coating can exert excellent performance on difficult-to-machine materials such as cutting hardness between 45HRC and 50HRC; especially suitable for high-speed cutting

APPLICATIONS 产品应用

		材料分组 Material Grouping	通用加工 General Machining	粗加工 Roughing	高效加工 Efficient Machining	微加工 Micro Machining
P	1 2 3 4	碳钢, 合金钢 (< 45HRC) Carbon Steel, Alloy Steel (< 45HRC)	HRC55 HRC65 ST-H ST-U	CPD	ST-H ST-U	SGXJ
	5	合金钢 (HRC50) Alloy Steel (HRC50)				
	6	PH马铁素体/马氏体钢 (< 45HRC) PH Ferritic, Martensitic Steel (< 45HRC)				
M	1 2 3	不锈钢 Stainless Steel	HRC65		ST-H ST-U	
K	1 2	灰铸铁, 球墨铸铁 (< 32HRC) Grey Cast Iron (< 32HRC)	HRC45 HRC55 HRC65 ST-H ST-U	CPD	ST-H ST-U	SGXJ
	3	高合金铸铁 (35~45HRC) High-Alloy Cast Iron (35~45HRC)				
N	1 2	变形铝合金, 铸造铝合金 (Si≤12%) Wrought Aluminium Alloys/Cast Aluminium Alloys (Si≤12%)	AL		AL	AL
	3	铸造铝合金 (Si > 12%) Cast Aluminium Alloys (Si > 12%)				
	4	铜合金 (< 200HB) Copper Alloys (< 200HB)				
S	1 2 3	高温合金 (< 450HB) Heat-Resistant Alloys (< 450HB)			ST-H ST-U	
	4	钛合金 (< 400HB) Titanium Alloys (< 400HB)				
H	1	高硬钢 (63HRC) High hardness steel (63HRC)			ST-H	
	2	超高硬 (65HRC) Superhard Material (65HRC)			ST-U	

HRC45加工立铣刀

普通钢，铸铁材料的加工

Suitable for processing ordinary steel
and cast iron materials



适用于低合金钢，45号钢等材料的加工

特殊的刃口的断屑槽处理

采用高性能AITIN涂层，耐高温，耐磨损

Suitable for processing low alloy steel,
No. 45 steel, ect.

Chipbreaker treatment for special
cutting edge

High-performance AITIN coating, high
temperature resistance, wear resistance



刃口耐磨性和刀具刚性提升

Improved edge wear resistance and tool rigidity

全球合作伙伴-WORLDWIDE RELIABLE PARTNER

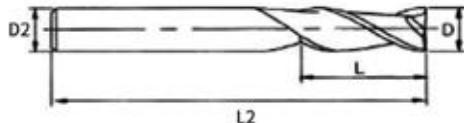
Carbide 2Flutes Square End Mill (Standard)

PD450 AITIN HRC 45 S



P	●
M	
K	●
N	
S	
H	

单位 Unit	(mm)	
D	D≤12	D>12
公差 Tol	0	0
	-0.015	-0.02



Diameter D mm	Cutting Length L mm	Shank D2 mm	Overall Length L2 mm
1	3	4	50
1.5	5	4	50
2	6	4	50
2.5	8	4	50
3	9	3	50
3	9	4	50
3.5	11	4	50
4	10	4	50
5	13	5	50
5	13	6	50
6	15	6	50
7	20	8	60
8	20	8	60
9	25	10	75
10	25	10	75
11	25	12	75
12	30	12	75
14	45	14	100
15	45	16	100
16	45	16	100
18	45	18	100
20	45	20	100

Ordering Code

PD450-2F-01030450
 PD450-2F-015050450
 PD450-2F-02060450
 PD450-2F-025080450
 PD450-2F-03090350
 PD450-2F-03090450
 PD450-2F-035110450
 PD450-2F-04120450
 PD450-2F-05130450
 PD450-2F-05130650
 PD450-2F-06150650
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 PD450-2F-08200860
 PD450-2F-09251075
 PD450-2F-10251075
 PD450-2F-11251275
 PD450-2F-12301275
 PD450-2F-144514100
 PD450-2F-154516100
 PD450-2F-164516100
 PD450-2F-184518100
 PD450-2F-204520100

ISO	被加工材料 Workpiece Material	切削量 (mm) Depth of cut	Vc m/min		刃径 Tool Diameter (mm)							
					3	4	6	8	10	12	16	20
P	碳钢合金 (<32HRC) Carbon steel alloy steel 合金钢 (50HRC) Alloy Steel	ap≤1.5D ap≤0.15D ap≤1D ap≤0.12D	180 130	转速 rate speed (min-1) 进给转速 feed velocity (mm/min) 转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	19110 1070 13800 610	14330 1030 10350 580	9550 920 6900 550	7170 930 5180 620	5730 920 4140 560	4780 860 3450 500	3580 860 2590 410	2870 860 2070 370
K	灰铸铁, 球墨铸铁 (<32HRC) Grey cast iron, nodular cast iron 高合金铸铁 (35~45HRC) High alloy cast iron	ap≤1.5D ap≤0.15D ap≤1D ap≤0.12D	160 140	转速 rate speed (min-1) 进给转速 feed velocity (mm/min) 转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	16990 850 14860 650	12740 820 11150 670	8490 820 7430 670	6370 750 5570 620	5100 700 4460 580	4250 680 3720 560	3190 610 2790 500	2550 560 2230 460

上表是侧铣加工的标准值, 刀具切槽时, 转速要以上表格的50%~70%, 进给速度要以40%~60%为标准值。

Above table is the standard cutting data for side milling machining, if for groove cutting, the VC should reach 50%~70% and the feed should reach 40%~60% based on the table.

普通钢, 铸铁 Ordinary steel, Cast iron

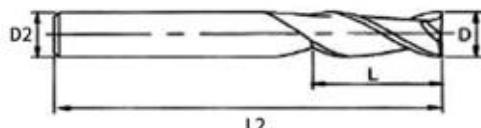
Carbide 2Flutes Square End Mill (Extra Long)

PD450 AITiN HRC 45 35° S



P	●
M	
K	●
N	
S	
H	

单位 Unit	(mm)		
	D	D≤12	D>12
公差 Tol	0	0	-0.015 -0.02



Diameter D mm	Cutting Length L mm	Shank D2 mm	Overall Length L2 mm
3	12	3	75
4	15	4	75
5	18	5	75
6	25	6	75
8	25	8	75
3	12	3	100
4	20	4	100
5	30	5	100
6	30	6	100
8	35	8	100
10	40	10	100
12	45	12	100
6	45	6	150
8	50	8	150
10	55	10	150
12	55	12	150
14	60	14	150
16	70	16	150
18	70	18	150
20	70	20	150

Ordering Code

PD450-2F-03120375
 PD450-2F-04160475
 PD450-2F-05180575
 PD450-2F-06240675
 PD450-2F-08250875
 PD450-2F-031203100
 PD450-2F-042004100
 PD450-2F-053005100
 PD450-2F-063006100
 PD450-2F-083508100
 PD450-2F-104010100
 PD450-2F-124512100
 PD450-2F-064506150
 PD450-2F-085008150
 PD450-2F-105510150
 PD450-2F-125512150
 PD450-2F-147014150
 PD450-2F-168016150
 PD450-2F-188018150
 PD450-2F-208020150

ISO	被加工材料 Workpiece Material	切削量 (mm) Depth of cut	Vc m/min		刃径 Tool Diameter (mm)							
					3	4	6	8	10	12	16	20
P	碳钢合金 (<45HRC) Carbon steel alloy steel 合金钢 (50HRC) Alloy Steel	ap≤1.5D	180	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	19110 1070	14330 1030	9550 920	7170 930	5730 920	4780 860	3580 860	2870 860
		ap≤0.15D			13800 610	10350 580	6900 550	5180 620	4140 560	3450 500	2590 410	2070 370
		ap≤1D	130	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)								
		ap≤0.12D										
K	灰铸铁, 球墨铸铁 (<32HRC) Grey cast iron, nodular cast iron 高合金铸铁 (35~45HRC) High alloy cast iron	ap≤1.5D	160	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	16990 850	12740 820	8490 750	6370 700	5100 680	4250 610	3190 560	2550 560
		ap≤0.15D			14860 650	11150 670	7430 670	5570 620	4460 580	3720 560	2790 500	2230 460
		ap≤1D	140	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)								

上表是侧铣加工的标准值，刀具切槽时，转速要以上表格的50%~70%，进给速度要以40%~60%为标准值。

Above table is the standard cutting data for side milling machining, if for groove cutting, the VC should reach 50%~70% and the feed should reach 40%~60% based on the table.



普通钢, 铸铁 Ordinary steel, Cast iron

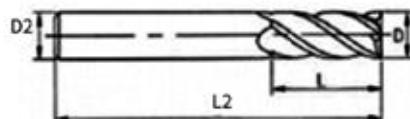
Carbide 4Flutes Square End Mill (Standard)

PD450 AITIN HRC 45 45° S



P	●
M	
K	●
N	
S	
H	

单位 Unit	(mm)		
	D	D≤12	D>12
公差 Tol	0	0	
	-0.015		-0.02



Diameter D mm	Cutting Length L mm	Shank D2 mm	Overall Length L2 mm
1	3	4	50
1.5	5	4	50
2	6	4	50
2.5	8	4	50
3	9	3	50
3	9	4	50
3.5	11	4	50
4	12	4	50
5	13	5	50
5	13	6	50
6	15	6	50
7	20	8	60
8	20	8	60
8	24	8	60
9	25	10	75
10	25	10	75
10	30	10	75
11	30	12	75
12	30	12	75
12	35	12	75
13	45	14	100
14	45	14	100
15	45	16	100
16	45	16	100
18	45	18	100
20	45	20	100

Ordering Code

- PD450-4F-01030450
- PD450-4F-015050450
- PD450-4F-02060450
- PD450-4F-025080450
- PD450-4F-03090350
- PD450-4F-03090450
- PD450-4F-035110450
- PD450-4F-04120450
- PD450-4F-05130550
- PD450-4F-05130650
- PD450-4F-06150650
- PD450-4F-07200860
- PD450-4F-08200860
- PD450-4F-08240860
- PD450-4F-09251075
- PD450-4F-10251075
- PD450-4F-10301075
- PD450-4F-11301275
- PD450-4F-12301275
- PD450-4F-12351275
- PD450-4F-134514100
- PD450-4F-144514100
- PD450-4F-154516100
- PD450-4F-164516100
- PD450-4F-184518100
- PD450-4F-204520100

ISO	被加工材料 Workpiece Material	切削量 (mm) Depth of cut	Vc m/min		刃径 Tool Diameter (mm)							
					3	4	6	8	10	12	16	20
P	碳钢合金 (<45HRC) Carbon steel alloy steel	ap≤1.5D	180	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	19110 1070	14330 1030	9550 920	7170 930	5730 920	4780 860	3580 860	2870 860
	合金钢 (50HRC) Alloy Steel	ap≤0.15D		转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	13800 610	10350 580	6900 550	5180 620	4140 560	3450 500	2590 410	2070 370
	灰铸铁, 球墨铸铁 (<32HRC) Gry cast iron, nodular cast iron	ap≤1.5D	160	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	16990 850	12740 820	8490 820	6370 750	5100 700	4250 680	3190 610	2550 560
	高合金铸铁 (35-45HRC) High alloy cast iron	ap≤0.12D	140	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	14860 650	11150 670	7430 670	5570 620	4460 580	3720 560	2790 500	2230 460

上表是侧铣加工的标准值，刀具切槽时，转速要以上表格的50%~70%，进给速度要以40%~60%为标准值。

Above table is the standard cutting data for side milling machining, if for groove cutting , the VC should reach 50%~70% and the feed should reach 40%~60% based on the table.



普通钢, 铸铁 Ordinary steel, Cast iron

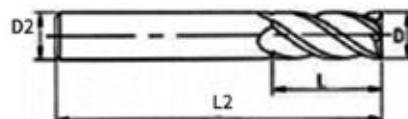
Carbide 4Flutes Square End Mill (Extra Long)

PD450 AITIN HRC 45 45° S



P	●
M	
K	●
N	
S	
H	

单位 Unit	(mm)		
	D	D≤12	D>12
公差 Tol	0	0	-0.015 -0.02



Diameter D mm	Cutting Length L mm	Shank D2 mm	Overall Length L2 mm
3	12	3	75
3.5	11	4	75
4	16	4	75
5	18	5	75
6	24	6	75
8	25	8	75
3	12	3	100
4	20	4	100
5	30	5	100
6	30	6	100
8	35	8	100
10	40	10	100
10	50	10	100
12	45	12	100
12	50	12	100
6	45	6	150
8	50	8	150
10	55	10	150
12	55	12	150
14	70	14	150
16	80	16	150
18	80	18	150
20	80	20	150
6	50	6	200
8	60	8	200
10	65	10	200
12	70	12	200
14	80	14	200
16	85	16	200
20	90	20	200

Ordering Code

PD450-4F-03120375
PD450-4F-035110475
PD450-4F-04160475
PD450-4F-05180575
PD450-4F-06240675
PD450-4F-08250875
PD450-4F-031203100
PD450-4F-042004100
PD450-4F-053005100
PD450-4F-063006100
PD450-4F-083508100
PD450-4F-104010100
PD450-4F-105010100
PD450-4F-124512100
PD450-4F-125012100
PD450-4F-064506150
PD450-4F-085008150
PD450-4F-105510150
PD450-4F-125512150
PD450-4F-147014150
PD450-4F-168016150
PD450-4F-188018150
PD450-4F-208020150
PD450-4F-065006200
PD450-4F-086008200
PD450-4F-106510200
PD450-4F-127012200
PD450-4F-148014200
PD450-4F-168516200
PD450-4F-209020200

ISO	被加工材料 Workpiece Material	切削量 (mm) Depth of cut	Vc m/min	
P	碳钢合金 (<45HRC) Carbon steel alloy steel 合金钢 (50HRC) Alloy Steel	ap≤1.5D ap≤0.15D ap≤1D ap≤0.12D	180 130	转速 rate speed (min-1) 进给转速 feed velocity (mm/min) 转速 rate speed (min-1) 进给转速 feed velocity (mm/min)
K	灰铸铁, 球墨铸铁 (<32HRC) Grey cast iron, nodular cast iron 高合金铸铁 (35-45HRC) High alloy cast iron	ap≤1.5D ap≤0.15D ap≤1D ap≤0.12D	160 140	转速 rate speed (min-1) 进给转速 feed velocity (mm/min) 转速 rate speed (min-1) 进给转速 feed velocity (mm/min)

刀具 Tool Diameter (mm)							
3	4	6	8	10	12	16	20
19110 1070	14330 1030	9550 920	7170 930	5730 920	4780 860	3580 860	2870 860
13800 610	10350 580	6900 550	5180 620	4140 560	3450 500	2590 410	2070 370
16990 850	12740 820	8490 820	6370 750	5100 700	4250 680	3190 610	2550 560
14860 650	11150 670	7430 670	5570 620	4460 580	3720 560	2790 500	2230 460

上表是侧铣加工的标准值，刀具切槽时，转速要以上表格的50%~70%，进给速度要以40%~60%为标准值。

Above table is the standard cutting data for side milling machining, if for groove cutting , the VC should reach 50%~70% and the feed should reach 40%~60% based on the table.

普通钢, 铸铁 Ordinary steel, Cast iron

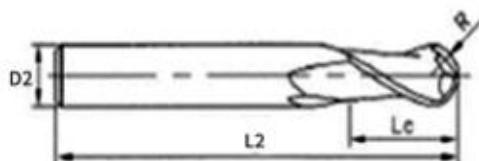
Carbide Ball Nose End Mill (Standard)

QD450 AITiN HRC 45 ② 35° B



P	●
M	
K	●
N	
S	
H	

单位 Unit	(mm)		
R	R≤1.5	1.5<R<3	R≥3
公差 Tol	0	0	0
	-0.015	-0.015	-0.02



Cutting Length L mm	Radius R mm	Shank D2 mm	Overall Length L2 mm
2	0.5	4	50
3	0.75	4	50
4	1	4	50
5	1.25	4	50
6	1.5	3	50
6	1.5	4	50
7	1.75	4	50
8	2	4	50
10	2.5	5	50
10	2.5	6	50
12	3	6	50
14	3.5	8	60
16	4	8	60
20	5	10	75
24	6	12	75
28	7	14	100
32	8	16	100
36	9	18	100
40	10	20	100

Ordering Code

QD450-2F-01020450
QD450-2F-015030450
QD450-2F-02040450
QD450-2F-025050450
QD450-2F-03060350
QD450-2F-03060450
QD450-2F-035070450
QD450-2F-04080450
QD450-2F-05100550
QD450-2F-05100650
QD450-2F-06120650
QD450-2F-07120860
QD450-2F-08160860
QD450-2F-10201075
QD450-2F-12241275
QD450-2F-142814100
QD450-2F-163216100
QD450-2F-183618100
QD450-2F-204020100

ISO	被加工材料 Workpiece Material	切削量 (mm) Depth of cut	Vc m/min		刀具直径 (mm) Tool Diameter (mm)									
					4	5	6	7	8	9	10	11	12	
P	碳钢合金 (<45HRC) Carbon steel alloy steel 含金钢 (50HRC) Alloy Steel	ap≤0.2D ap≤0.3D	160	转速 rate speed (min⁻¹) 进给转速 feed velocity (mm/min)	12740 1020	10190 1020	8490 1020	7280 1020	6370 1020	5660 1020	5100 1020	4630 1020	4250 1020	
				转速 rate speed (min⁻¹) 进给转速 feed velocity (mm/min)	9550 610	7640 640	6370 660	5460 630	4780 620	4250 610	3820 610	3470 610	3190 610	
		ap≤0.15D ap≤0.15D		转速 rate speed (min⁻¹) 进给转速 feed velocity (mm/min)	11150 780	8920 800	7430 820	6370 800	5570 790	4950 800	4460 810	4050 820	3720 820	
				转速 rate speed (min⁻¹) 进给转速 feed velocity (mm/min)	9550 610	7640 640	6370 660	5460 660	4780 670	4250 650	3820 650	3470 660	3190 670	
K	灰铸铁, 球墨铸铁 (<32HRC) Grey cast iron, nodular cast iron 高合金铸铁 (35-45HRC) High alloy cast iron	ap≤0.2D ap≤0.2D	140	转速 rate speed (min⁻¹) 进给转速 feed velocity (mm/min)	11150 780	8920 800	7430 820	6370 800	5570 790	4950 800	4460 810	4050 820	3720 820	
				转速 rate speed (min⁻¹) 进给转速 feed velocity (mm/min)	9550 610	7640 640	6370 660	5460 660	4780 670	4250 650	3820 650	3470 660	3190 670	

上表是侧铣加工的标准值, 刀具切槽时, 转速要以上表格的50%~70%, 进给速度要以40%~60%为标准值。

Above table is the standard cutting data for side milling machining, if for groove cutting, the VC should reach 50%~70% and the feed should reach 40%~60% based on the table.

普通钢, 铸铁 Ordinary steel, Cast iron

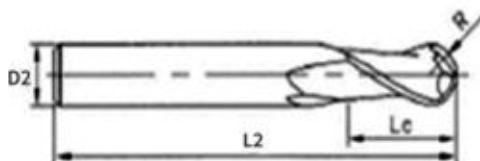
Carbide Ball Nose End Mill (Extra Long)

QD450 AITiN HRC 45



P	●
M	
K	●
N	
S	
H	

单位 Unit	(mm)			
	R	R≤1.5	1.5<R<3	R≥3
公差 To1	0	0	0	0
	-0.015	-0.015	-0.02	



Cutting Length L	Radius R	Shank D2	Overall Length L2
mm	mm	mm	mm
6	1.5	3	75
8	2	4	75
10	2.5	5	75
12	3	6	75
16	4	8	75
6	1.5	3	100
4	2	4	100
10	2.5	5	100
12	3	6	100
16	4	8	100
20	5	10	100
24	6	12	100
12	3	6	150
16	4	8	150
20	5	10	150
24	6	12	150
28	7	14	150
32	8	16	150
36	9	18	150
40	10	20	150
12	3	6	200
16	4	8	200
20	5	10	200
24	6	12	200
32	8	16	200

Ordering Code

QD450-2F-03060375
QD450-2F-04080475
QD450-2F-05100575
QD450-2F-06120675
QD450-2F-08160875
QD450-2F-030603100
QD450-2F-040804100
QD450-2F-051005100
QD450-2F-061206100
QD450-2F-081608100
QD450-2F-102010100
QD450-2F-122412100
QD450-2F-061206150
QD450-2F-081608150
QD450-2F-102010150
QD450-2F-122412150
QD450-2F-142814150
QD450-2F-163216150
QD450-2F-183618150
QD450-2F-204020150
QD450-2F-061206200
QD450-2F-081608200
QD450-2F-102010200
QD450-2F-122412200
QD450-2F-163216200

ISO	被加工材料 Workpiece Material	切削量 (mm) Depth of cut	Vc m/min	刀具直径 (mm) Tool Diameter (mm)									
				4	5	6	7	8	9	10	11	12	
P	碳钢合金 (<45HRC) Carbon steel alloy steel 合金钢 (50HRC) Alloy Steel	ap≤0.2D ap≤0.3D ap≤0.15D ap≤0.15D	160	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	12740 1020	10190 1020	8490 1020	7280 1020	6370 1020	5660 1020	5100 1020	4630 1020	4250 1020
				转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	9550 610	7640 640	6370 660	5460 630	4780 620	4250 610	3820 610	3470 610	3190 610
K	灰铸铁, 球墨铸铁 (<32HRC) Gry cast iron, nodular cast iron 高合金铸铁 (35-45HRC) High alloy cast iron	ap≤0.2D ap≤0.2D ap≤0.1D ap≤0.1D	140	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	11150 780	8920 800	7430 820	6370 800	5570 790	4950 800	4460 800	4050 810	3720 810
				转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	9550 610	7640 640	6370 660	5460 670	4780 650	4250 650	3820 650	3470 660	3190 670

上表是侧铣加工的标准值，刀具切槽时，转速要以上表格的50%~70%，进给速度要以40%~60%为标准值。

Above table is the standard cutting data for side milling machining. If for groove cutting, the VC should reach 50%~70% and the feed should reach 40%~60% based on the table.



普通钢, 铸铁 Ordinary steel, Cast iron

Carbide Corner Radius End Mill (Standard)

YB450 AITIN HRC 45   S



P	●
M	
K	●
N	
S	
H	

单位 Unit	(mm)		
	D	D≤12	D>12
公差 Tolerance	0	0	-0.015
			-0.02



Diameter D mm	Radius R mm	Cutting Length L mm	Shank D2 mm	Overall Length L2 mm
1	0.2	3	4	50
1.5	0.2	5	4	50
2	0.2	6	4	50
2	0.5	6	4	50
2.5	0.2	8	4	50
2.5	0.5	8	4	50
3	0.2	8	3	50
3	0.2	9	4	50
3	0.5	8	3	50
3	0.5	9	4	50
3.5	0.5	11	4	50
4	0.2	10	4	50
4	0.5	10	4	50
5	0.5	13	5	50
5	0.5	13	6	50
5	1	13	5	50
5	1	13	6	50
6	0.2	15	6	50
6	0.3	15	6	50
6	0.5	15	6	50
6	1	15	6	50
8	0.5	20	8	60
8	1	20	8	60
8	2	20	8	60
10	0.5	25	10	75
10	1	25	10	75
10	2	25	10	75
10	3	25	10	75
12	0.5	30	12	75
12	1	30	12	75
12	2	30	12	75
12	3	30	12	75

Ordering Code

YB450-4F-0102030450
YB450-4F-01502050450
YB450-4F-0202060450
YB450-4F-0205060450
YB450-4F-02502080450
YB450-4F-02505080450
YB450-4F-0302090350
YB450-4F-0302090450
YB450-4F-0305090350
YB450-4F-0305090450
YB450-4F-03505110450
YB450-4F-0402120450
YB450-4F-0405120450
YB450-4F-0505130550
YB450-4F-0505130650
YB450-4F-051130550
YB450-4F-051130650
YB450-4F-0602150650
YB450-4F-0603150650
YB450-4F-0605150650
YB450-4F-061150650
YB450-4F-0805200860
YB450-4F-081200860
YB450-4F-082200860
YB450-4F-1005251075
YB450-4F-101251075
YB450-4F-102251075
YB450-4F-103251075
YB450-4F-1205301275
YB450-4F-121301275
YB450-4F-122301275
YB450-4F-123301275

ISO	被加工材料 Workpiece Material	切削量 (mm) Depth of cut	Vc mm/min	
P	碳钢 (≤45HRC) Carbon steel alloy steel 合金钢 (50HRC) Alloy Steel	ap>1.5D ap>0.15D ap>1D ap>0.12D	180 130	转速 rate speed (min⁻¹) 进给率 feed velocity (mm/min) 转速 rate speed (min⁻¹) 进给率 feed velocity (mm/min)
K	灰铸铁, 模具铸铁 (>32HRC) Grey cast iron, mold cast iron 高合金铸铁 (45-49HRC) High alloy cast iron	ap>1.5D ap>0.15D ap>1D ap>0.12D	160 140 140	转速 rate speed (min⁻¹) 进给率 feed velocity (mm/min) 转速 rate speed (min⁻¹) 进给率 feed velocity (mm/min)

直径 (mm) Diameter (mm)							
3	4	5	6	8	10	12	16
19110 1070 13800 610	14330 1030 10350 580	9550 930 6900 550	7170 920 5180 520	5730 860 4140 500	4780 860 3450 410	3580 860 2590 370	2870 860 2070 370
16990 850 14860 650	12740 820 11150 670	8490 750 7480 670	6370 700 5570 520	5100 680 4460 580	4250 610 3720 540	3190 560 2790 460	2550 560 2220 460

上表是侧铣加工的基准数据，刀具切削时，转速要以上表的50%~70%，进给速度要以40%~60%为标准值。
Above table is the standard cutting data for side milling machining, if for groove cutting , the VC should reach 50%~70% and the feed should reach 40%~60% based on the table.

普通钢, 铸铁 Ordinary steel, Cast iron

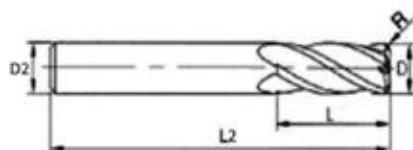
Carbide Corner Radius End Mill (Extra Long)

YB450 ALTiN HRC 45 S



P	●
M	
K	●
N	
S	
H	

单位 Unit	(mm)	
D	D≤12	D>12
公差 Tol	0	0
	-0.015	-0.02



Diameter D	Radius R	Cutting Length L	Shank D2	Overall Length L2
mm	mm	mm	mm	mm
3	0.5	12	3	75
4	0.5	15	4	75
5	0.5	25	5	75
6	0.5	25	6	75
8	0.5	25	8	75
4	0.5	20	4	100
4	1	20	4	100
5	0.5	30	5	100
5	1	30	5	100
6	0.5	30	6	100
6	1	30	6	100
8	0.5	35	8	100
8	1	35	8	100
10	0.5	40	10	100
10	1	40	10	100
12	0.5	45	12	100
12	1	45	12	100
8	0.5	50	8	150
8	1	50	8	150
10	0.5	55	10	150
10	1	55	10	150
12	0.5	60	12	150
12	1	60	12	150

Ordering Code

YB450-4F-0305120375
YB450-4F-0405160475
YB450-4F-0505180575
YB450-4F-0605240675
YB450-4F-0805250875
YB450-4F-04052004100
YB450-4F-0412004100
YB450-4F-05053005100
YB450-4F-0513005100
YB450-4F-06053006100
YB450-4F-0613006100
YB450-4F-08053508100
YB450-4F-0813508100
YB450-4F-10054010100
YB450-4F-1014010100
YB450-4F-12054512100
YB450-4F-1214512100
YB450-4F-08055008150
YB450-4F-0815008150
YB450-4F-10055510150
YB450-4F-1015510150
YB450-4F-12055512150
YB450-4F-1215512150

ISO	被加工材料 Workpiece Material	切削量 (mm) Depth of cut	Vc m/min	
P	碳钢合金 (<45HRC) Carbon steel alloy steel 合金钢 (50HRC) Alloy Steel	ap≤1.5D ap≤0.15D ap≤1D ap≤0.12D	180 转速 rate speed (min-1) 进给率 feed velocity (mm/min)	19110 14330 9550 7170 5730 4780 3580 2870 1070 1030 920 930 920 860 860 860
K	灰铸铁, 球墨铸铁 (<32HRC) Grey cast iron, nodular cast iron 高合金铸铁 (35-45HRC) High alloy cast iron	ap≤1.5D ap≤0.15D ap≤1D ap≤0.12D	160 转速 rate speed (min-1) 进给率 feed velocity (mm/min)	16990 12740 8490 6370 5100 4250 3190 2550 850 820 820 750 700 680 610 560

刃倾 Tool Diameter (mm)							
3	4	6	8	10	12	16	20

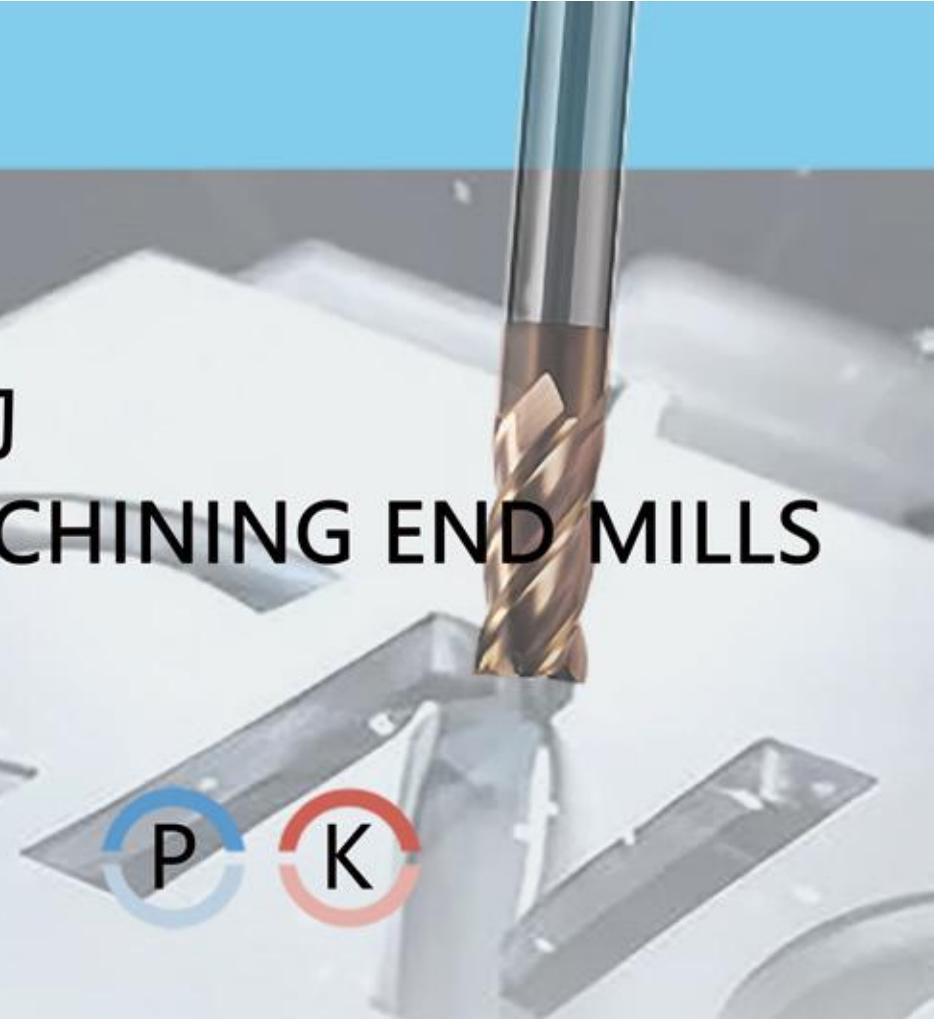
上表是侧铣加工的标准值，刀具切槽时，转速要以上表格的50%~70%，进给速度要以40%~60%为标准值。

Above table is the standard cutting data for side milling machining, if for groove cutting , the VC should reach 50%~70% and the feed should reach 40%~60% based on the table.

550古铜系列 通用加工立铣刀 GENERAL MACHINING END MILLS



New
TiSiN



- 适用于普通钢、P20、铸铁材料的加工
- 采用高性能TiSiN涂层，耐高温、耐磨损
- 采用细晶粒硬质合金基材
- Suitable for ordinary steel, P20, cast iron materials processing.
- High-performance TiSiN coating, high temperature and wear resistance.
- Ultra-fine grained carbide material.

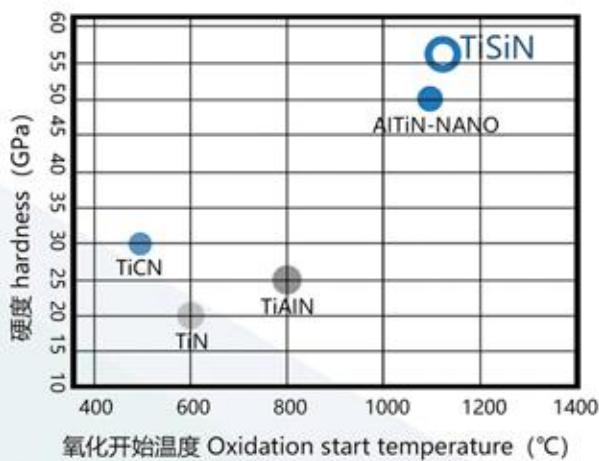


刃口耐磨性和刀具刚性提升
Improved edge wear resistance and tool rigidity

全球合作伙伴-WORLDWIDE RELIABLE PARTNER

各种钢材的通用加工: 抗沾刀能力强, 提高刀具寿命,
 35°螺旋角设计, 切削顺滑, 不积屑
 General processing of various steels
 Strong anti-sticking ability, improve tool life,
 35° helix angle design, Smooth cutting without chip accumulation

● 产品特点 Features

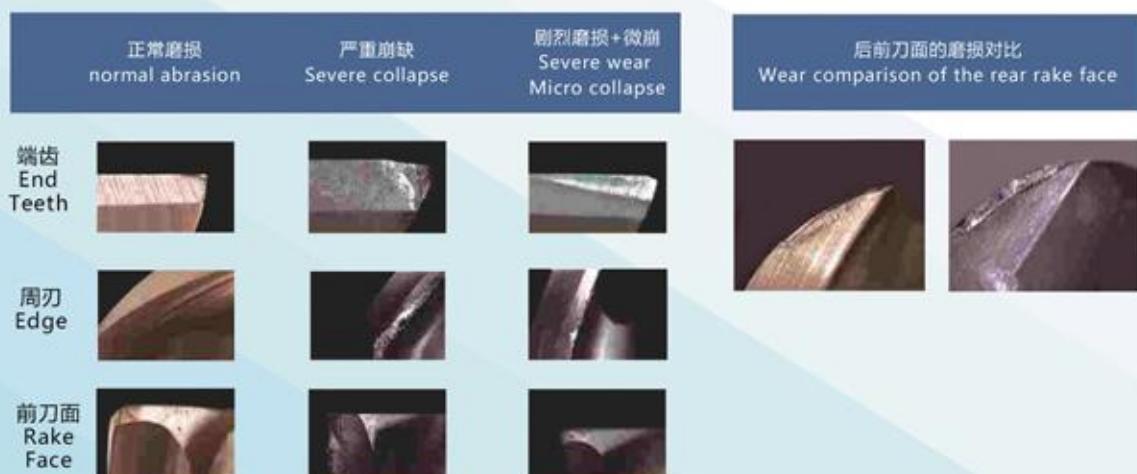


● 大螺旋角 Irregular helix angle



[震动小, 有效加工, 提高生产效率]
 [Improved productivity with effective machining due to less vibration]

● 加工后磨损状况 Wear condition after processing



采用超细硬质合金基材

特殊切刃和高性能TISIN涂层，从而实现高精度，长寿命加工

Ultra-fine cemented carbide substrate

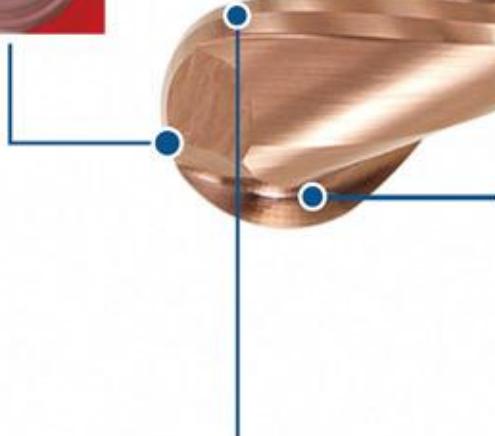
Special cutting edge and high performance TISIN coating
to achieve high precision, long life processing

特殊顶端形状实现良好的切削效果

Special end shape achieves good cutting results

弓形R刃角分散切削阻力抑制切刃的磨损

The arcuate R edge disperses the cutting resistance
to reduce the wear of the cutting edge



大容量槽 Large chip groove

即使大切深加工也可以稳定排屑

Stable chip removal even in deep cutting



刃口钝化

Edge Precision passivation

刃口钝化提高道具使用寿命和工件
表面洁度。特殊角度设计，
刃口强度极高，通用性强。

Improve tool life and workpiece
surface finish. Special angle design
and high edge strength ensure
stronger versatility.



高质量刃面 High quality blade surface

平滑锋利的切刃

优异的耐磨损性和耐熔着性

Smooth and sharp cutting edge

Excellent wear resistance and Fusion resistance





普通钢, 铸铁 Ordinary steel, Cast iron

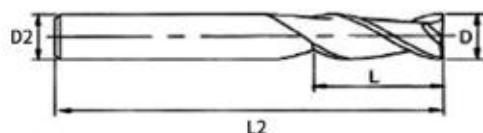
Carbide 2Flutes Square End Mill (Standard)

PD550 TISIN HRC 55 2 35° S



P	●
M	
K	●
N	
S	
H	

单位 Unit	(mm)	
D	D≤12	D>12
公差 Tol	0	0
	-0.015	-0.02



Diameter D	Cutting Length L	Shank D2	Overall Length L2
mm	mm	mm	mm
1	3	4	50
1.5	5	4	50
2	6	4	50
2.5	8	4	50
3	9	3	50
3.5	11	4	50
4	12	4	50
5	13	5	50
5	13	6	50
6	15	6	50
7	20	8	60
8	20	8	60
9	25	10	75
10	25	10	75
11	25	12	75
12	30	12	75
14	45	14	100
15	45	16	100
16	45	16	100
18	45	18	100
20	45	20	100

Ordering Code

PD550-2F-01030450
PD550-2F-015050450
PD550-2F-02060450
PD550-2F-025080450
PD550-2F-03090350
PD550-2F-03090450
PD550-2F-035110450
PD550-2F-04120450
PD550-2F-05130450
PD550-2F-05130650
PD550-2F-06150650
PD550-2F-07200860
PD550-2F-08200860
PD550-2F-09251075
PD550-2F-10251075
PD550-2F-11251275
PD550-2F-12301275
PD550-2F-144514100
PD550-2F-154516100
PD550-2F-164516100
PD550-2F-184518100
PD550-2F-204520100

ISO	被加工材料 Workpiece Material	切削量 (mm) Depth of cut	Vc m/min	刃径 Tool Diameter (mm)								
				3	4	6	8	10	12	16	20	
P	碳钢合金 (<45HRC) Carbon steel alloy steel 合金钢 (50HRC) Alloy Steel	ap≤1.5D ap≤0.15D	180	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	19110 1070	14330 1030	9550 920	7170 930	5730 920	4780 860	3580 860	2870 860
			130	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	13800 610	10350 580	6900 550	5180 620	4140 560	3450 500	2590 410	2070 370
		ap≤1.5D ap≤0.15D	160	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	16990 850	12740 820	8490 750	6370 700	5100 680	4250 610	3190 610	2550 560
			140	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	14860 650	11150 670	7430 670	5570 620	4460 580	3720 560	2790 500	2230 460
K	灰铸铁, 球墨铸铁 (<32HRC) Grey cast iron, nodular cast iron 高合金铸铁 (35-45HRC) High alloy cast iron	ap≤1.5D ap≤0.15D	160	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	16990 850	12740 820	8490 750	6370 700	5100 680	4250 610	3190 610	2550 560
			140	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	14860 650	11150 670	7430 670	5570 620	4460 580	3720 560	2790 500	2230 460

上表是侧铣加工的标准值，刀具切槽时，转速要以上表格的50%~70%，进给速度要以40%~60%为标准值。

Above table is the standard cutting data for side milling machining, if for groove cutting , the VC should reach 50%-70% and the feed should reach 40%-60% based on the table.



普通钢, 铸铁 Ordinary steel, Cast iron

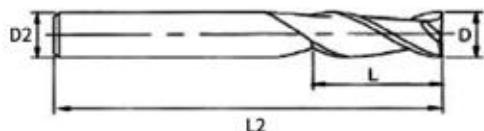
Carbide 2Flutes Square End Mill (Extra Long)

PD550 TISIN HRC 55 2° S



P	●
M	
K	●
N	
S	
H	

单位 Unit	(mm)	
D	D≤12	D>12
公差 Tol	0	0
	-0.015	-0.02



Diameter D mm	Cutting Length L mm	Shank D2 mm	Overall Length L2 mm
3	12	3	75
4	16	4	75
5	18	5	75
6	24	6	75
8	25	8	75
3	12	3	100
4	20	4	100
5	30	5	100
6	30	6	100
8	35	8	100
10	40	10	100
12	45	12	100
6	45	6	150
8	50	8	150
10	55	10	150
12	55	12	150
14	70	14	150
16	80	16	150
18	80	18	150
20	80	20	150

Ordering Code

PD550-2F-03120375
PD550-2F-04160475
PD550-2F-05180575
PD550-2F-06240675
PD550-2F-08250875
PD550-2F-031203100
PD550-2F-042004100
PD550-2F-053005100
PD550-2F-063006100
PD550-2F-083508100
PD550-2F-104010100
PD550-2F-124512100
PD550-2F-064506150
PD550-2F-085008150
PD550-2F-105510150
PD550-2F-125512150
PD550-2F-147014150
PD550-2F-168016150
PD550-2F-188018150
PD550-2F-208020150

ISO	被加工材料 Workpiece Material	切削量 (mm) Depth of cut	Vc m/min	刃径 Tool Diameter (mm)								
				3	4	6	8	10	12	16	20	
P	碳钢合金 (<45HRC) Carbon steel alloy steel	ap≤1.5D ap≤0.15D	180	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	19110 1070	14330 1090	9550 920	7170 930	5730 920	4780 860	3580 860	2870 860
	含金钢 (50HRC) Alloy Steel	ap≤1D ap≤0.12D	130	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	13800 610	10350 580	6900 550	5180 620	4140 560	3450 500	2590 410	2070 370
K	灰铸钢, 球墨铸铁 (<32HRC) Gry cast iron, nodular cast iron	ap≤1.5D ap≤0.15D	160	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	16990 850	12740 820	8490 750	6370 700	5100 680	4250 610	3190 560	2550 560
	高合金铸铁 (35-45HRC) High alloy cast iron	ap≤1D ap≤0.12D	140	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	14860 650	11150 670	7430 670	5570 620	4460 580	3720 560	2790 500	2230 460

上表是侧铣加工的标准值, 刀具切槽时, 转速要以上表格的50%~70%, 进给速度要以40%~60%为标准值。

Above table is the standard cutting data for side milling machining, if for groove cutting , the VC should reach 50%~70% and the feed should reach 40%~60% based on the table.



普通钢, 铸铁 Ordinary steel, Cast iron

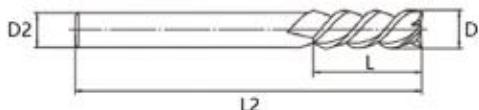
Carbide 4Flutes Square End Mill (Standard)

PD550 T15IN HRC 55 S



P	●
M	
K	●
N	
S	
H	

单位 Unit	(mm)		
D	D≤12	D>12	
公差 Tol	0	0	
	-0.015	-0.02	



Diameter D mm	Cutting Length L mm	Shank D2 mm	Overall Length L2 mm
1	3	4	50
1.5	5	4	50
2	6	4	50
2.5	8	4	50
3	9	3	50
3.5	11	4	50
4	12	4	50
5	13	5	50
5	13	6	50
6	15	6	50
7	20	8	60
8	20	8	60
8	24	8	60
9	25	10	75
10	25	10	75
10	30	10	75
11	30	12	75
12	30	12	75
12	35	12	75
13	45	14	100
14	45	14	100
15	45	16	100
16	45	16	100
18	45	18	100
20	45	20	100

Ordering Code

PD550-4F-01030450
PD550-4F-015050450
PD550-4F-02060450
PD550-4F-025080450
PD550-4F-03090350
PD550-4F-03090450
PD550-4F-035110450
PD550-4F-04120450
PD550-4F-05130550
PD550-4F-05130650
PD550-4F-06150650
PD550-4F-07200860
PD550-4F-08200860
PD550-4F-08240860
PD550-4F-09251075
PD550-4F-10251075
PD550-4F-10301075
PD550-4F-11301275
PD550-4F-12301275
PD550-4F-12351275
PD550-4F-134514100
PD550-4F-144514100
PD550-4F-154516100
PD550-4F-164516100
PD550-4F-184518100
PD550-4F-204520100

ISO	被加工材料 Workpiece Material	切削量 (mm) Depth of cut	Vc m/min	刃径 Tool Diameter (mm)								
				3	4	6	8	10	12	16	20	
P	碳钢合金 (<45HRC) Carbon steel alloy steel 合金钢 (50HRC) Alloy Steel	ap≤1.5D ap≤0.15D	180	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	19110 1070	14330 1030	9550 920	7170 930	5730 920	4780 860	3580 860	2870 860
				转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	13800 610	10350 580	6900 550	5180 620	4140 560	3450 500	2590 410	2070 370
		ap≤1.5D ap≤0.15D	160	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	16990 850	12740 820	8490 820	6370 750	5100 700	4250 680	3190 610	2550 560
				转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	14860 650	11150 670	7430 670	5570 620	4460 580	3720 560	2790 500	2230 460
K	灰铸铁, 球墨铸铁 (<32HRC) Gry cast iron, nodular cast iron 高合金铸铁 (35-45HRC) High alloy cast iron	ap≤1.5D ap≤0.15D	140	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	16990 850	12740 820	8490 820	6370 750	5100 700	4250 680	3190 610	2550 560
				转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	14860 650	11150 670	7430 670	5570 620	4460 580	3720 560	2790 500	2230 460

上表是侧铣加工的标准值, 刀具切槽时, 转速要以上表格的50%~70%, 进给速度要以40%~60%为标准值。

Above table is the standard cutting data for side milling machining, if for groove cutting , the VC should reach 50%~70% and the feed should reach 40%~60% based on the table.



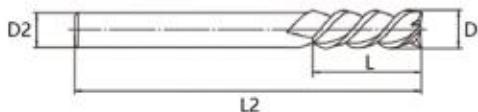
普通钢, 铸铁 Ordinary steel, Cast iron

Carbide 4Flutes Square End Mill (Extra Long)

PD550 TISIN HRC 55 35° S



P	●
M	
K	●
N	
S	
H	



单位 Unit	(mm)		
	D	D≤12	D>12
公差 Tol	0	0	
	-0.015	-0.02	

Diameter D mm	Cutting Length L mm	Shank D2 mm	Overall Length L2 mm
3	12	3	75
3.5	11	4	75
4	16	4	75
5	18	5	75
6	24	6	75
8	25	8	75
3	12	3	100
4	20	4	100
5	30	5	100
6	30	6	100
8	35	8	100
10	40	10	100
10	50	10	100
12	45	12	100
12	50	12	100
6	45	6	150
8	50	8	150
10	55	10	150
12	55	12	150
14	70	14	150
16	80	16	150
18	80	18	150
20	80	20	150
6	50	6	200
8	60	8	200
10	65	10	200
12	70	12	200
14	80	14	200
16	85	16	200
20	90	20	200

Ordering Code

PD550-4F-03120375
PD550-4F-035110475
PD550-4F-04160475
PD550-4F-05180575
PD550-4F-06240675
PD550-4F-08250875
PD550-4F-031203100
PD550-4F-042004100
PD550-4F-053005100
PD550-4F-063006100
PD550-4F-083508100
PD550-4F-104010100
PD550-4F-105010100
PD550-4F-124512100
PD550-4F-125012100
PD550-4F-064506150
PD550-4F-085008150
PD550-4F-105510150
PD550-4F-125512150
PD550-4F-147014150
PD550-4F-168016150
PD550-4F-188018150
PD550-4F-208020150
PD550-4F-065006200
PD550-4F-086008200
PD550-4F-106510200
PD550-4F-127012200
PD550-4F-148014200
PD550-4F-168516200
PD550-4F-209020200

ISO	被加工材料 Workpiece Material	切削量 (mm) Depth of cut	Vc m/min	刃径 Tool Diameter (mm)								
				3	4	6	8	10	12	16	20	
P	碳钢 (<45HRC) Carbon steel alloy steel 合金钢 (50HRC) Alloy Steel	ap≤1.5D ap≤0.15D	180	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	19110 1070	14330 1030	9550 920	7170 930	5730 920	4780 860	3580 860	2870 860
			130	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	13800 610	10350 580	6900 550	5180 620	4140 560	3450 500	2590 410	2070 370
		ap≤1.5D ap≤0.15D	160	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	16990 850	12740 820	8490 820	6370 750	5100 700	4250 680	3190 610	2550 560
			140	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	14860 650	11150 670	7430 670	5570 620	4460 580	3720 560	2790 500	2230 460
K	灰铸铁, 球墨铸铁 (<32HRC) Grey cast iron, nodular cast iron 高合金铸铁 (35-45HRC) High alloy cast iron	ap≤1.5D ap≤0.15D ap≤0.12D	160	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	16990 850	12740 820	8490 820	6370 750	5100 700	4250 680	3190 610	2550 560
			140	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	14860 650	11150 670	7430 670	5570 620	4460 580	3720 560	2790 500	2230 460

3	4	6	8	10	12	16	20

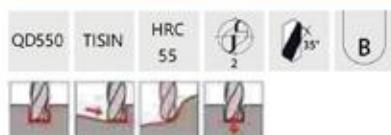
上表是侧铣加工的标准值，刀具切削时，转速要以上表格的50%~70%，进给速度要以40%~60%为标准值。

Above table is the standard cutting data for side milling machining, if for groove cutting , the VC should reach 50%~70% and the feed should reach 40%~60% based on the table.



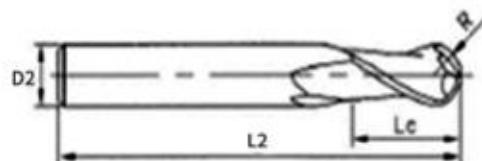
普通钢, 铸铁 Ordinary steel, Cast iron

Carbide Ball Nose End Mill (Standard)



P	●
M	
K	●
N	
S	
H	

单位 Unit	(mm)		
	R R≤1.5	1.5<R<3	R≥3
公差Tol	0	0	0
	-0.015	-0.015	-0.02



Cutting Length L	Radius R	Shank D2	Overall Length L2
mm	mm	mm	mm
2	0.5	4	50
3	0.75	4	50
4	1	4	50
5	1.25	4	50
6	1.5	3	50
6	1.5	4	50
7	1.75	4	50
8	2	4	50
10	2.5	5	50
10	2.5	6	50
12	3	6	50
14	3.5	8	60
16	4	8	60
20	5	10	75
24	6	12	75
28	7	14	100
32	8	16	100
36	9	18	100
40	10	20	100

Ordering Code

QD550-2F-01020450
QD550-2F-015030450
QD550-2F-02040450
QD550-2F-025050450
QD550-2F-03060350
QD550-2F-03060450
QD550-2F-035070450
QD550-2F-04080450
QD550-2F-05100550
QD550-2F-05100650
QD550-2F-06120650
QD550-2F-07140860
QD550-2F-08160860
QD550-2F-10201075
QD550-2F-12241275
QD550-2F-142814100
QD550-2F-163216100
QD550-2F-183618100
QD550-2F-204020100

ISO	被加工材料 Workpiece Material	切削量 (mm) Depth of cut	Vc m/min		刃径 Tool Diameter (mm)								
					4	5	6	7	8	9	10	11	12
P	碳钢合金 (<45HRC) Carbon steel alloy steel 含金铜 (50HRC) Alloy Steel	ap≤0.2D ap≤0.3D	160	转速 rate speed (min-1) 进给率 feed velocity (mm/min)	12740 1020	10190 1020	8490 1020	7280 1020	6370 1020	5660 1020	5100 1020	4630 1020	4250 1020
				转速 rate speed (min-1) 进给率 feed velocity (mm/min)	9550 610	7640 640	6370 660	5460 630	4780 620	4250 610	3820 610	3470 610	3190 610
		ap≤0.15D ap≤0.1D	120	转速 rate speed (min-1) 进给率 feed velocity (mm/min)	11150 780	8920 800	7430 820	6370 800	5570 790	4950 800	4460 810	4050 820	3720 820
				转速 rate speed (min-1) 进给率 feed velocity (mm/min)	9550 610	7640 640	6370 660	5460 660	4780 670	4250 650	3820 650	3470 660	3190 670
K	灰铸铁, 球墨铸铁 (<32HRC) Grey cast iron, nodular cast iron 高合金铸铁 (35-45HRC) High alloy cast iron	ap≤0.2D ap≤0.2D	140	转速 rate speed (min-1) 进给率 feed velocity (mm/min)	11150 780	8920 800	7430 820	6370 800	5570 790	4950 800	4460 810	4050 820	3720 820
				转速 rate speed (min-1) 进给率 feed velocity (mm/min)	9550 610	7640 640	6370 660	5460 660	4780 670	4250 650	3820 650	3470 660	3190 670

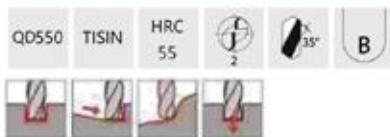
上表是侧铣加工的标准值，刀具切槽时，转速要以上表格的50%~70%，进给速度要以40%~60%为标准值。

Above table is the standard cutting data for side milling machining, if for groove cutting , the VC should reach 50%~70% and the feed should reach 40%~60% based on the table.



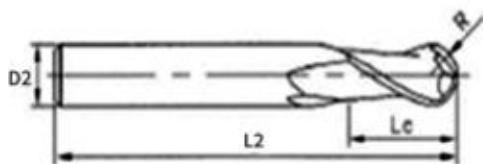
普通钢, 铸铁 Ordinary steel, Cast iron

Carbide Ball Nose End Mill (Extra Long)



P	●
M	
K	●
N	
S	
H	

单位 Unit	(mm)		
R	R≤1.5	1.5<R<3	R≥3
公差 Tol	0	0	0
	-0.015	-0.015	-0.02



Cutting Length L mm	Radius R mm	Shank D2 mm	Overall Length L2 mm
6	1.5	3	75
8	2	4	75
10	2.5	5	75
12	3	6	75
16	4	8	75
6	1.5	3	100
8	2	4	100
10	2.5	5	100
12	3	6	100
16	4	8	100
20	5	10	100
24	6	12	100
12	3	6	150
16	4	8	150
20	5	10	150
24	6	12	150
28	7	14	150
32	8	16	150
36	9	18	150
40	10	20	150
12	3	6	200
16	4	8	200
20	5	10	200
24	6	12	200
32	8	16	200

Ordering Code

QD550-2F-03060375
QD550-2F-04080475
QD550-2F-05100575
QD550-2F-06120675
QD550-2F-08160875
QD550-2F-030603100
QD550-2F-040804100
QD550-2F-051005100
QD550-2F-061206100
QD550-2F-081608100
QD550-2F-102010100
QD550-2F-122412100
QD550-2F-061206150
QD550-2F-081608150
QD550-2F-102010150
QD550-2F-122412150
QD550-2F-142814150
QD550-2F-163216150
QD550-2F-183618150
QD550-2F-204020150
QD550-2F-061206200
QD550-2F-081608200
QD550-2F-102010200
QD550-2F-122412200
QD550-2F-163216200

ISO	被加工材料 Workpiece Material	切削量 (mm) Depth of cut	Vc m/min	刃具直径 (mm)									
				4	5	6	7	8	9	10	11	12	
P	碳钢合金 (<45HRC) Carbon steel alloy steel 合金钢 (50HRC) Alloy Steel	ap≤0.2D ap≤0.3D ap≤0.15D ap≤0.15D	160	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	12740 1020	10190 1020	8490 1020	7280 1020	6370 1020	5660 1020	5100 1020	4630 1020	4250 1020
				转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	9550 610	7640 640	6370 660	5460 630	4780 620	4250 610	3820 610	3470 610	3190 610
K	灰铸铁, 球墨铸铁 (<32HRC) Gry cast iron, nodular cast iron 高合金铸铁 (35~45HRC) High alloy cast iron	ap≤0.2D ap≤0.2D ap≤0.1D ap≤0.1D	140	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	11150 780	8920 800	7430 820	6370 800	5570 790	4950 800	4460 810	4050 820	3720 820
				转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	9550 610	7640 640	6370 660	5460 650	4780 670	4250 650	3820 650	3470 660	3190 670

上表是侧铣加工的标准值, 刀具切槽时, 转速要以上表格的50%~70%, 进给速度要以40%~60%为标准值。

Above table is the standard cutting data for side milling machining, if for groove cutting , the VC should reach 50%~70% and the feed should reach 40%~60% based on the table.



普通钢, 铸铁 Ordinary steel, Cast iron

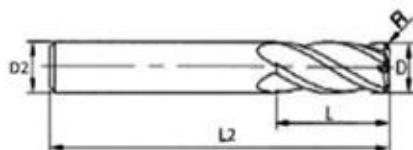
Carbide Corner Radius End Mill (Standard)

YB550 T15IN HRC 55 S



P	●
M	
K	●
N	
S	
H	

单位 Unit	(mm)	
D	D≤12	D>12
公差 Tol	0	0
	-0.015	-0.02



Diameter D mm	Radius R mm	Cutting Length L mm	Shank D2 mm	Overall Length L2 mm
1	0.2	3	4	50
1.5	0.2	5	4	50
2	0.2	6	4	50
2	0.5	6	4	50
2.5	0.2	8	4	50
2.5	0.5	8	4	50
3	0.2	8	3	50
3	0.2	9	4	50
3	0.5	8	3	50
3	0.5	9	4	50
3.5	0.5	11	4	50
4	0.2	10	4	50
4	0.5	10	4	50
5	0.5	13	5	50
5	0.5	13	6	50
5	1	13	5	50
5	1	13	6	50
6	0.2	15	6	50
6	0.3	15	6	50
6	0.5	15	6	50
6	1	15	6	50
8	0.5	20	8	60
8	1	20	8	60
8	2	20	8	60
10	0.5	25	10	75
10	1	25	10	75
10	2	25	10	75
10	3	25	10	75
12	0.5	30	12	75
12	1	30	12	75
12	2	30	12	75
12	3	30	12	75

Ordering Code

YB550-4F-0102030450
YB550-4F-01502050450
YB550-4F-0202060450
YB550-4F-0205060450
YB550-4F-02502080450
YB550-4F-02505080450
YB550-4F-0302090350
YB550-4F-0302090450
YB550-4F-0305090350
YB550-4F-0305090450
YB550-4F-03505110450
YB550-4F-0402120450
YB550-4F-0405120450
YB550-4F-0505130550
YB550-4F-0505130650
YB550-4F-051130550
YB550-4F-051130650
YB550-4F-0602150650
YB550-4F-0603150650
YB550-4F-0605150650
YB550-4F-061150650
YB550-4F-0805200860
YB550-4F-081200860
YB550-4F-082200860
YB550-4F-1005251075
YB550-4F-101251075
YB550-4F-102251075
YB550-4F-103251075
YB550-4F-1205301275
YB550-4F-121301275
YB550-4F-122301275
YB550-4F-123301275

ISO	被加工材料 Workpiece Material	切削量 (mm) Depth of cut	Vc m/min	
P	碳钢 (45HRC) Carbon steel alloy steel 合金钢 (50HRC) Alloy Steel	apx 1.5D apx 0.15D apx 1D apx 0.12D	160	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)
K	灰铸铁, 非球形铸件 (45HRC) Grey cast iron, nodular cast iron 高合金铸铁 (45-49HRC) High alloy cast iron	apx 1.5D apx 0.15D apx 1D apx 0.12D	160	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)

刀具直径 (mm)							
3	4	6	8	10	12	16	20
10110 1070 13800 610	14330 1030 10350 580	9550 920 6900 550	7170 720 5180 620	5730 520 4140 560	4780 460 3450 500	3580 360 2590 410	2870 2860 2070 370
16990 850 14860 650	12740 750 11150 670	8490 700 7430 620	6370 620 5570 580	5100 610 4460 560	4250 610 3720 500	3190 560 2790 300	2550 360 2230 460

上表是侧铣加工的标准值。刀具切槽时，转速要以以上表格的50%~70%，进给速度要以40%~60%为标准值。
Above table is the standard cutting data for side milling machining. If for groove cutting, the VC should reach 50%~70% and the feed should reach 40%~60% based on the table.



普通钢, 铸铁 Ordinary steel, Cast iron

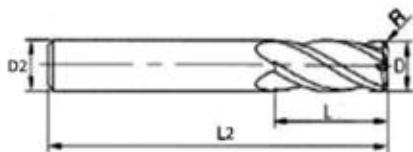
Carbide Corner Radius End Mill (Extra Long)

YB550 TISIN HRC 55 S



P	●
M	
K	●
N	
S	
H	

单位 Unit	(mm)	
	D ≤ 12	D > 12
公差 Tol	0	0
	-0.015	-0.02



Diameter D	Radius R	Cutting Length L	Shank D2	Overall Length L2
mm	mm	mm	mm	mm
3	0.5	12	3	75
4	0.5	15	4	75
5	0.5	25	5	75
6	0.5	25	6	75
8	0.5	25	8	75
4	0.5	20	4	100
4	1	20	4	100
5	0.5	30	5	100
5	1	30	5	100
6	0.5	30	6	100
6	1	30	6	100
8	0.5	35	8	100
8	1	35	8	100
10	0.5	40	10	100
10	1	40	10	100
12	0.5	45	12	100
12	1	45	12	100
8	0.5	50	8	100
8	1	50	8	150
10	0.5	55	10	150
10	1	55	10	150
12	0.5	60	12	150
12	1	60	12	150

MÃ ĐẶT HÀNG

YB550-4F-0305120375
YB550-4F-0405160475
YB550-4F-0505180575
YB550-4F-0605240675
YB550-4F-0805250875
YB550-4F-04052004100
YB550-4F-0412004100
YB550-4F-05053005100
YB550-4F-0513005100
YB550-4F-06053006100
YB550-4F-0613006100
YB550-4F-08053508100
YB550-4F-0813508100
YB550-4F-10054010100
YB550-4F-1014010100
YB550-4F-12054512100
YB550-4F-1214512100
YB550-4F-08055008150
YB550-4F-0815008150
YB550-4F-10055510150
YB550-4F-10155510150
YB550-4F-12055512150
YB550-4F-12155512150

ISO	被加工材料 Workpiece Material	切削量 (mm) Depth of cut	Vc m/min		刀径 Tool Diameter (mm)							
					3	4	6	8	10	12	16	20
P	碳钢合金 (<45HRC) Carbon steel alloy steel 合金钢 (50HRC) Alloy Steel	ap≤1.5D ap≤0.15D	180	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	19110 1070	14330 1030	9550 920	7170 930	5730 920	4780 860	3580 860	2870 860
				转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	13800 610	10350 580	6900 550	5180 620	4140 560	3450 500	2590 410	2070 370
		ap≤1.5D ap≤0.15D	160	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	16990 850	12740 820	8490 820	6370 750	5100 700	4250 680	3190 610	2550 560
				转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	14860 650	11150 670	7430 670	5570 620	4460 580	3720 560	2790 500	2230 460
K	灰铸铁, 球墨铸铁 (<32HRC) Grey cast iron, nodular cast iron 高合金铸铁 (35-45HRC) High alloy cast iron	ap≤1.5D ap≤0.15D	140	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	16990 650	12740 670	8490 670	6370 5570	5100 4460	4250 3720	3190 2790	2550 2230
				转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	14860 650	11150 670	7430 670	5570 580	4460 560	3720 560	2790 500	2230 460

上表是侧铣加工的标准值，刀具切槽时，转速要以上表格的50%~70%，进给速度要以40%~60%为标准值。

Above table is the standard cutting data for side milling machining, if for groove cutting , the VC should reach 50%~70% and the feed should reach 40%~60% based on the table.

HRC65系列 HIGH PERFORMANCE



HRC65高硬度高效加工立铣刀

HRC65 High hardness and high efficiency
machining end milling cutter



END



- 适用于高硬度钢件的高效加工
- 可加工不锈钢，调质钢和一般经过热处理的钢材
- 适用于精加工
- Suitable for efficient processing of high-hardness steel parts
- Can process stainless steel, quenched and tempered steel and generally heat-treated steel.
- Suitable for finishing



卓越的抗震能力
Excellent vibration resistance

全球合作伙伴-WORLDWIDE RELIABLE PARTNERS

0.4μm微晶粒尺寸，可加工不锈钢，
大多数钢和经过热处理的钢材。

0.4μm micro grain size, can process stainless steel,
most modulated steel and general steel after heat treatment.

●产品特点 Features

●大螺旋角Lang Helix Angle

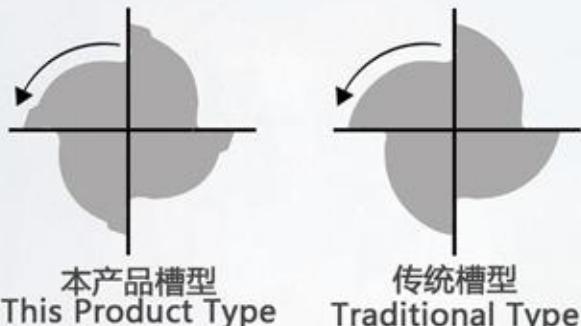
大螺旋角：抑制振动，完全面良好
Lage Helix Angle: vibration suppression,
good finfish surface

采用高性能复合涂层
HIGH-PERFORMANCE COMPOSITE COATING



[振动小，有效加工，提高生产效率]
[Improved productivity with effective machining due to less vibration]

●槽型经过特殊设计，能够更好的改善
切削流动和卷曲，以及降低切屑力。
The groove is specially designed to
better improve chip flow and curl,
and reduce cutting force.



●加工效果 Machining Effect

加工时间 processing time	50min			
刀具磨损 Tool wear				
刀具型号 Tool type	HRC65-S4-D6.0	A公司同类产品 Similar products of company A	B公司同类产品 Similar products of company B	HRC65-S4-D6.0



不锈钢, 铸铁 Stainless steel, Cast iron

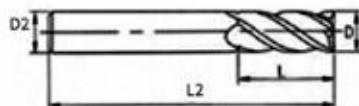
Carbide 4Flutes Square End Mill (Standard)

PD650 NACO HRC 65 45° S



P	●
M	●
K	●
N	●
S	●
H	●

单位 Unit	(mm)	
	D	D≤12
公差 Tol	0	0
	-0.015	-0.02



Diameter D mm	Cutting Length L mm	Shank D2 mm	Overall Length L2 mm
1	3	4	50
1.5	4	4	50
2	6	4	50
2.5	8	4	50
3	8	3	50
3	8	4	50
3.5	10	4	50
4	12	4	50
5	13	5	50
5	13	6	50
6	15	6	50
7	20	8	60
8	20	8	60
9	25	10	75
10	25	10	75
11	30	12	75
12	30	12	75
14	45	14	100
16	45	16	100
18	45	18	100
20	45	20	100

Ordering Code

- PD650-4F-01030450
- PD650-4F-015040450
- PD650-4F-02060450
- PD650-4F-025080450
- PD650-4F-03080350
- PD650-4F-03080450
- PD650-4F-035100450
- PD650-4F-04120450
- PD650-4F-05130550
- PD650-4F-05130650
- PD650-4F-06150650
- PD650-4F-07200860
- PD650-4F-08200860
- PD650-4F-09251075
- PD650-4F-10251075
- PD650-4F-11301275
- PD650-4F-12301275
- PD650-4F-144514100
- PD650-4F-164516100
- PD650-4F-184518100
- PD650-4F-204520100

ISO	被加工材料 Workpiece Material	切削量 (mm) Depth of cut	Vc m/min	
H	合金钢、淬硬钢(<60HRC) Alloy steel, hardened steel	ap≤1D ap≤0.05D	120	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)
	合金钢、淬硬钢(65HRC) Alloy steel, hardened steel	ap≤0.7D ap≤0.03D	90	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)

刃径 Tool Diameter (mm)						
2	4	6	8	10	12	
19110 380	9550 380	6370 380	7170 930	4780 380	3490 360	
15920 260	11940 360	7960 370	5180 620	4780 370	3980 340	

上表是侧铣加工的标准值，刀具切槽时，转速要以上表格的50%~70%，进给速度要以40%~60%为标准值。

Above table is the standard cutting data for side milling machining. If for groove cutting, the VC should reach 50%~70% and the feed should reach 40%~60% based on the table.



不锈钢, 铸铁 Stainless steel, Cast iron

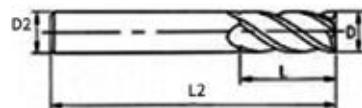
Carbide 4Flutes Square End Mill (Extra Long)

PD650 NACO HRC 65 S



P	●
M	●
K	●
N	●
S	●
H	●

单位 Unit	(mm)	
D	D≤12	D>12
公差 Tol	0	0
	-0.015	-0.02



Diameter D mm	Cutting Length L mm	Shank D2 mm	Overall Length L2 mm
3	12	3	75
4	16	4	75
5	18	5	75
6	24	6	75
8	25	8	75
3	12	3	100
4	20	4	100
5	30	5	100
6	30	6	100
8	35	8	100
10	40	10	100
12	45	12	100
6	45	6	150
8	50	8	150
10	55	10	150
12	55	12	150
14	70	14	150
16	70	16	150
20	70	20	150

Ordering Code

PD650-4F-03120375
PD650-4F-04160475
PD650-4F-05180575
PD650-4F-06240675
PD650-4F-08250875
PD650-4F-031203100
PD650-4F-042004100
PD650-4F-053005100
PD650-4F-063006100
PD650-4F-083508100
PD650-4F-104010100
PD650-4F-124512100
PD650-4F-064506150
PD650-4F-085008150
PD650-4F-105510150
PD650-4F-125512150
PD650-4F-147014150
PD650-4F-167016150
PD650-4F-207020150

ISO	被加工材料 Workpiece Material	切削量 (mm) Depth of cut	Vc m/min	
H	合金钢, 淬硬钢(<60HRC) Alloy steel, hardened steel	ap≤1D ap≤0.05D	120	转速 rote speed (min-1) 进给转速 feed velocity (mm/min)
	合金钢, 淬硬钢(65HRC) Alloy steel, hardened steel	ap≤0.7D ap≤0.03D	90	转速 rote speed (min-1) 进给转速 feed velocity (mm/min)

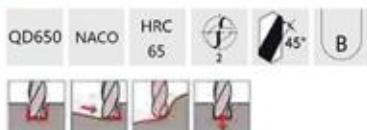
刀具 Tool Diameter (mm)						
2	4	6	8	10	12	
19110 380	9550 380	6370 380	7170 930	4780 380	3490 360	
15920 260	11940 360	7960 370	5180 620	4780 370	3980 340	

上表是侧铣加工的标准值，刀具切槽时，转速要以上表格的50%~70%，进给速度要以40%~60%为标准值。

Above table is the standard cutting data for side milling machining, if for groove cutting , the VC should reach 50%~70% and the feed should reach 40%~60% based on the table.t

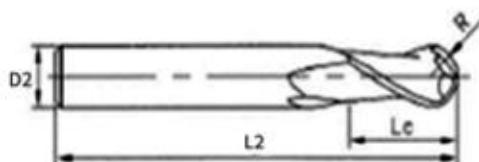


Carbide Ball Nose End Mill (Standard)



P	●
M	●
K	●
N	
S	
H	●

单位 Unit	(mm)		
	R R≤1.5	1.5<R<3	R≥3
公差Tol	0	0	0
	-0.015	-0.015	-0.02



Cutting Length L mm	Radius R mm	Shank D2 mm	Overall Length L2 mm
2	0.5	4	50
3	0.75	4	50
4	1	4	50
5	1.25	4	50
6	1.5	3	50
6	1.5	4	50
7	1.75	4	50
12	2	4	50
12	2.5	5	50
12	2.5	6	50
12	3	6	50
16	4	8	60
20	5	10	75
24	6	12	75
28	7	14	100
32	8	16	100
36	9	18	100
40	10	20	100

Ordering Code

QD650-2F-01020450
 QD650-2F-015030450
 QD650-2F-02040450
 QD650-2F-025050450
 QD650-2F-03060350
 QD650-2F-03060450
 QD650-2F-035070450
 QD650-2F-04080450
 QD650-2F-05100550
 QD650-2F-05100650
 QD650-2F-06120650
 QD650-2F-08160860
 QD650-2F-10201075
 QD650-2F-12241275
 QD650-2F-142814100
 QD650-2F-163216100
 QD650-2F-183618100
 QD650-2F-204020100

ISO	被加工材料 Workpiece Material	切削量 (mm) Depth of cut	Vc m/min	刃径 Tool Diameter (mm)						
				2	4	6	8	10	12	
H	合金钢、淬硬钢(<60HRC) Alloy steel, hardened steel	ap≤1D ap≤0.05D	120	19110 380	9550 380	6370 380	7170 930	4780 380	3490 360	
	合金钢、淬硬钢(65HRC) Alloy steel, hardened stee	ap≤0.7D ap≤0.03D	90	15920 260	11940 360	7960 370	5180 620	4780 370	3980 340	

上表是侧铣加工的标准值，刀具切槽时，转速要以上表格的50%~70%，进给速度要以40%~60%为标准值。

Above table is the standard cutting data for side milling machining, if for groove cutting , the VC should reach 50%~70% and the feed should reach 40%~60% based on the table.



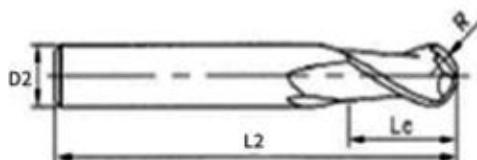
Carbide Ball Nose End Mill (Extra Long)

QD650 NACO HRC 65 B



P	●
M	●
K	●
N	
S	
H	●

单位 Unit	(mm)		
	R	R≤1.5	1.5<R<3
公差 Tol	0	0	0
	-0.015	-0.015	-0.02



Cutting Length L	Radius R	Shank D2	Overall Length L2
mm	mm	mm	mm
6	1.5	3	75
8	2	4	75
10	2.5	5	75
12	3	6	75
16	4	8	75
8	2	4	100
12	2.5	5	100
12	3	6	100
16	4	8	100
20	5	10	100
24	6	12	100
12	3	6	150
16	4	8	150
20	5	10	150
24	6	12	150
28	7	14	150
32	8	16	150
40	10	20	150

Ordering Code

QD650-2F-03060375
 QD650-2F-04080475
 QD650-2F-05100575
 QD650-2F-06120675
 QD650-2F-08160875
 QD650-2F-040804100
 QD650-2F-051005100
 QD650-2F-061206100
 QD650-2F-081608100
 QD650-2F-102010100
 QD650-2F-122412100
 QD650-2F-061206150
 QD650-2F-081608150
 QD650-2F-102010150
 QD650-2F-122412150
 QD650-2F-142814150
 QD650-2F-163216150
 QD650-2F-204020150

ISO	被加工材料 Workpiece Material	切削量 (mm) Depth of cut	Vc m/min		刀具直径 Tool Diameter (mm)							
					2	4	6	8	10	12		
H	合金钢、淬硬钢(<60HRC) Alloy steel, hardened steel	ap≤1D ap≤0.05D	120	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	19110 380	9550 380	6370 380	7170 930	4780 380	3490 360		
	合金钢、淬硬钢(65HRC) Alloy steel, hardened steel	ap≤0.7D ap≤0.03D	90	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	15920 260	11940 360	7960 370	5180 620	4780 370	3980 340		

上表是侧铣加工的标准值，刀具切槽时，转速要以上表格的50%~70%，进给速度要以40%~60%为标准值。

Above table is the standard cutting data for side milling machining, if for groove cutting , the VC should reach 50%~70% and the feed should reach 40%~60% based on the table.



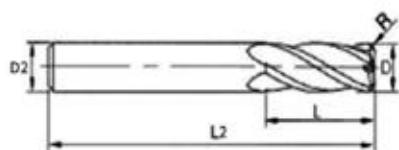
Carbide Corner Radius End Mill (Standard)

YB650 NACO HRC 65 S



P	●
M	●
K	●
N	●
S	●
H	●

单位 Unit	(mm)	
	D	D≤12 D>12
公差Tol	0	0
	-0.015	-0.02



Diameter D mm	Radius R mm	Cutting Length L mm	Shank D2 mm	Overall Length L2 mm
1	0.2	3	4	50
1.5	0.2	5	4	50
2	0.2	6	4	50
2	0.5	6	4	50
2.5	0.2	8	4	50
2.5	0.5	8	3	50
3	0.5	8	3	50
3	0.2	9	4	50
3	0.5	9	4	50
4	0.2	10	4	50
4	0.5	10	4	50
4	1	10	4	50
5	0.5	13	5	50
5	1	13	5	50
5	0.5	13	6	50
5	1	13	6	50
6	0.2	15	6	50
6	0.5	15	6	50
6	1	15	6	50
8	0.5	20	8	60
8	1	20	8	60
10	0.5	25	10	75
10	1	25	10	75
12	0.5	30	12	75
12	1	30	12	75

Ordering Code

YB650-4F-0102030450
YB650-4F-01502050450
YB650-4F-0202060450
YB650-4F-0205060450
YB650-4F-02502080450
YB650-4F-02505080350
YB650-4F-0305090350
YB650-4F-0302090450
YB650-4F-0305090450
YB650-4F-0402120450
YB650-4F-0405120450
YB650-4F-041120450
YB650-4F-0505130550
YB650-4F-051130550
YB650-4F-0505130650
YB650-4F-051130650
YB650-4F-0602150650
YB650-4F-0605150650
YB650-4F-061150650
YB650-4F-0805200860
YB650-4F-081200860
YB650-4F-1005251075
YB650-4F-101251075
YB650-4F-1205301275
YB650-4F-121301275

ISO	被加工材料 Workpiece Material	切削量 (mm) Depth of cut	Vc m/min	
H	合金钢、淬硬钢(<60HRC) Alloy steel, hardened steel	ap≤1D ap≤0.05D	120	转速 rate speed (min-1) 进给速度 feed velocity (mm/min)
	合金钢、淬硬钢(65HRC) Alloy steel, hardened steel	ap≤0.7D ap≤0.03D	90	转速 rate speed (min-1) 进给速度 feed velocity (mm/min)

刃径 Tool Diameter (mm)						
2	4	6	8	10	12	
19110 380	9550 380	6370 380	7170 930	4780 380	3490 360	
15920 260	11940 360	7960 370	5180 620	4780 370	3980 340	

上表是侧铣加工的标准值，刀具切槽时，转速要以上表格的50%~70%，进给速度要以40%~60%为标准值。

Above table is the standard cutting data for side milling machining, if for groove cutting , the VC should reach 50%~70% and the feed should reach 40%~60% based on the table.



不锈钢, 铸铁 Stainless steel, Cast iron

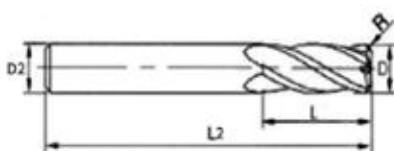
Carbide Corner Radius End Mill (Extra Long)

YB650 NACO HRC 65 S



P	●
M	●
K	●
N	
S	
H	●

单位 Unit	(mm)	
	D	D≤12 D>12
公差Tol	0	0
	-0.015	-0.02



Diameter D	Radius R	Cutting Length L	Shank D2	Overall Length L2
mm	mm	mm	mm	mm
4	0.5	15	4	75
6	0.5	25	6	75
6	1	25	6	75
8	0.5	30	8	75
8	1	30	8	75
4	0.5	20	4	100
4	1	20	4	100
6	0.5	30	6	100
6	1	30	6	100
8	0.5	35	8	100
8	1	35	8	100
10	0.5	40	10	100
10	1	40	10	100
12	0.5	45	12	100
12	1	45	12	100

Ordering Code

YB650-4F-0405160475
 YB650-4F-0605240675
 YB650-4F-061240675
 YB650-4F-0805250875
 YB650-4F-081250875
 YB650-4F-04052004100
 YB650-4F-0412004100
 YB650-4F-06053006100
 YB650-4F-0613006100
 YB650-4F-08053508100
 YB650-4F-0813508100
 YB650-4F-10054010100
 YB650-4F-1014010100
 YB650-4F-12054512100
 YB650-4F-1214512100

ISO	被加工材料 Workpiece Material	切削量 (mm) Depth of cut	Vc m/min		刃倾 Tool Diameter (mm)							
					2	4	6	8	10	12		
H	合金钢、淬硬钢(<60HRC) Alloy steel, hardened steel	ap≤1D ap≤0.05D	120	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	19110 380	9550 380	6370 380	7170 930	4780 380	3490 360		
	合金钢、淬硬钢(65HRC) Alloy steel, hardened steel	ap≤0.7D ap≤0.03D	90	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	15920 260	11940 360	7960 370	5180 620	4780 370	3980 340		

上表是侧铣加工的标准值，刀具切槽时，转速要以上表格的50%~70%，进给速度要以40%~60%为标准值。

Above table is the standard cutting data for side milling machining, if for groove cutting , the VC should reach 50%~70% and the feed should reach 40%~60% based on the table.

ST-H系列 铣刀

ST-H SERIES ENDMILL

通用加工立铣刀 · GENERAL MACHINING END MILLS

P M H K

多功能刀具，适用材料最广泛，工况适应性最优性价比之王，高速加工，精粗两用，高效率加工

Multifunctional tool, applicable to the widest range of materials, the best adaptability to working conditions, the king of cost performance, high-speed machining, both fine and rough, high-efficiency machining



高硬度 高韧性基材

High hardness and high toughness base material

全球合作伙伴-WORLDWIDE RELIABLE PARTNERS

通用加工·抗粘刀能力强，提升刀具寿命

General machining, strong anti-sticking ability, extended tool life

■ 稳定的排屑量。芯厚大，高刚性

Stable chip evacuation. Large core thickness, high rigidity.

在切槽·高进给加工中发挥威力

Play a powerful role in slotting
and high feed processing

抗振刀性·抗弯能力强

Vibration resistance strong bending resistance

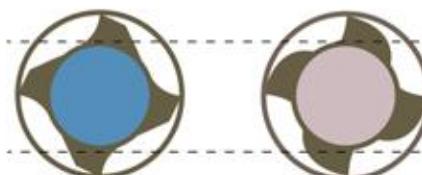
芯厚对比 The core thickness contrast



UP
30%

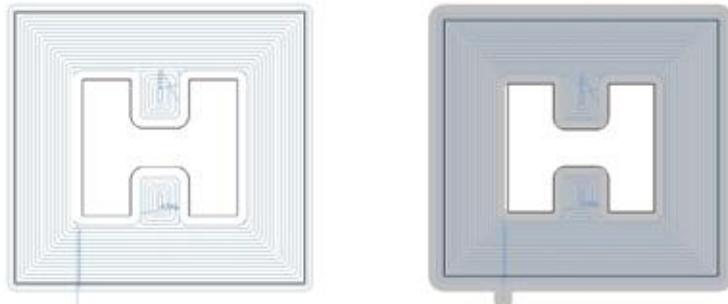
S4

其他公司产品B
Other company products B



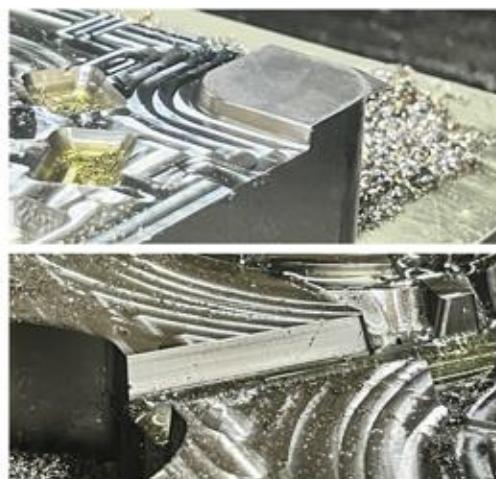
ST-H系列案例 ST-H SERIES CASE

侧面铣削 Side milling



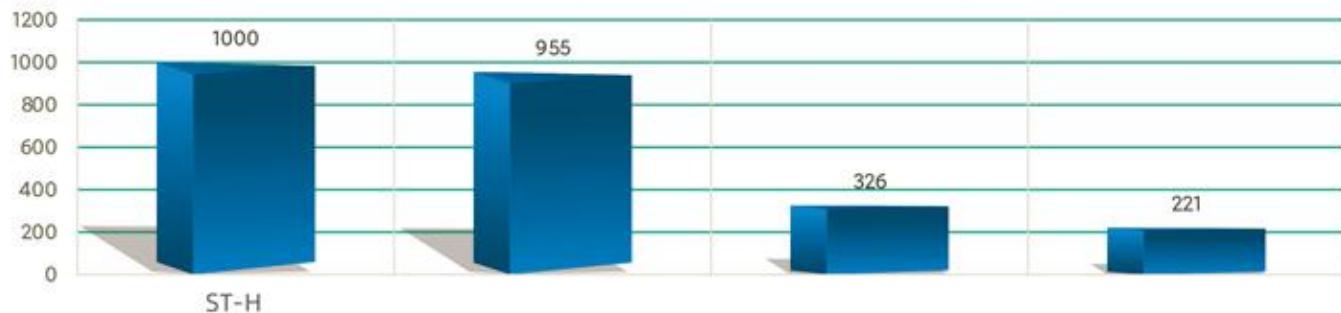
压铸热处理后: H13钢 HRC55-60 应用规格: 8R0.5x60mm
转速: 7700 进给: 2500 切深: 10μm

After die casting heat treatment: H13 steel HRC55-60
Application specifications: 8R0.5x60mm
Rotation speed: 7700 Feed: 2500 Depth of cut: 10μm



(加工效果 Processing effect)

刀具寿命对比 (件数)
Tool life comparison (number of pieces)

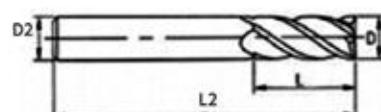


Carbide 4Flutes Square End Mill (Standard)

ST-H ALCrSiN HRC 68   S


P	●
M	●
K	●
N	
S	●
H	●

单位 Unit	(mm)	
	D	D≤12
公差 Tol	0	0
	-0.005	-0.005



Diameter D mm	Cutting Length L mm	Shank D2 mm	Overall Length L2 mm
1	3	4	50
1.5	5	4	50
2	6	4	50
2.5	8	4	50
3	9	4	50
4	12	4	50
5	13	6	50
6	18	6	50
8	20	8	60
10	30	10	75
12	36	12	75
14	40	14	100
16	45	16	100
18	50	18	100
20	50	20	100

Ordering Code

ST-H-4F-01030450
ST-H-4F-015050450
ST-H-4F-02060450
ST-H-4F-025080450
ST-H-4F-03090450
ST-H-4F-04120450
ST-H-4F-05130650
ST-H-4F-06180650
ST-H-4F-08200860
ST-H-4F-10301075
ST-H-4F-12361275
ST-H-4F-144014100
ST-H-4F-164516100
ST-H-4F-185018100
ST-H-4F-205020100

ISO	被加工材料 Workpiece Material	切削量 (mm) Depth of cut	Vc m/min		刃径 Tool Diameter (mm)							
					3	4	6	8	10	12	16	20
P	碳钢 (≤45HRC) Carbon steel alloy steel 合金钢 (50HRC) Alloy Steel	ap≤1.5D ap≤0.15D ap≤1D ap≤0.12D	200	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	21230 2040	15920 1960	10620 1690	7960 1670	6370 1620	5310 1590	3980 1490	3190 1480
M	不锈钢 stainless steel	ap≤1.5D ap≤0.15D	150	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	15920 1580	10350 1330	7960 1150	5970 1220	4780 1130	3980 1080	2900 900	2390 820
K	灰铸铁, 球墨铸铁 (<32HRC) Gry cast iron, nodular cast iron 高合金铸铁 (35-45HRC) High alloy cast iron	ap≤1.5D ap≤0.15D ap≤1D ap≤0.12D	170 150	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	18050 1620	13540 1500	9020 1440	6770 1330	5410 1200	4510 1150	3380 1020	2710 930
H	合金钢、淬硬钢 (<60HRC) Alloy steel, hardened steel	ap≤1D ap≤0.05D	120	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	15920 1290	11940 1250	7960 1190	5970 1090	4780 1000	3980 960	2990 850	2390 770
					16710 380	9550 380	6370 380	4780 380	3820 370	3190 360	2390 310	1910 290

上表是侧铣加工的标准值，刀具切槽时，转速要以上表的50%~70%，进给速度要以40%~60%为标准值。

Above table is the standard cutting data for side milling machining, if for groove cutting the VC should reach 50%-70% and the feed should reach 40%-60% based on the table.

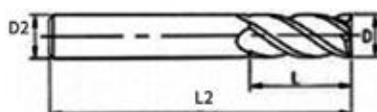
Carbide 4Flutes Square End Mill (Extra Long)

ST-H ALCrSiN HRC 68 45° S



P	●
M	●
K	●
N	
S	●
H	●

单位 Unit	(mm)	
D	D≤12	D>12
公差 Tol	0	0
	-0.005	-0.005



Diameter D mm	Cutting Length L mm	Shank D2 mm	Overall Length L2 mm
3	12	4	75
4	16	4	75
5	20	6	75
6	25	6	75
8	32	8	75
3	12	4	100
4	16	4	100
6	25	6	100
8	32	8	100
10	40	10	100
12	50	12	100
6	45	6	150
8	50	8	150
10	55	10	150
12	60	12	150
16	65	16	150
20	80	20	150

Ordering Code

ST-H-4F-03120475
ST-H-4F-04160475
ST-H-4F-05200675
ST-H-4F-06250675
ST-H-4F-08320875
ST-H-4F-031204100
ST-H-4F-041604100
ST-H-4F-062506100
ST-H-4F-083208100
ST-H-4F-104010100
ST-H-4F-125012100
ST-H-4F-064506150
ST-H-4F-085008150
ST-H-4F-105510150
ST-H-4F-126012150
ST-H-4F-166516150
ST-H-4F-208020150

ISO	被加工材料 Workpiece Material	切削量 (mm) Depth of cut	Vc m/min		刃径 Tool Diameter (mm)							
					3	4	6	8	10	12	16	20
P	碳钢合金 (<45HRC) Steel alloy steel 合金钢 (50HRC) Alloy Steel	ap≤1.5D ap≤0.15D	200	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	21230 2040	15920 1960	10620 1690	7960 1670	6370 1620	5310 1590	3980 1490	3190 1480
				转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	15920 1290	10350 1180	7960 1080	5970 1160	4780 1050	3980 930	2990 760	2390 680
		ap≤1.5D ap≤0.15D	150	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	15920 1580	11940 1330	49600 1150	5970 1220	4780 1130	3980 1080	2900 900	2390 820
				转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	18050 1620	13540 1500	9020 1440	6770 1330	5410 1200	4510 1150	3380 1020	2710 930
M	不锈钢 stainless steel	ap≤1.5D ap≤0.15D	150	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	15920 1580	11940 1330	7960 1150	5970 1220	4780 1130	3980 1080	2900 900	2390 820
				转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	15920 1290	11940 1250	7960 1190	5970 1090	4780 1000	3980 960	2990 850	2390 770
		ap≤1.5D ap≤0.15D	170	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	18050 1620	13540 1500	9020 1440	6770 1330	5410 1200	4510 1150	3380 1020	2710 930
				转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	15920 1580	11940 1330	7960 1150	5970 1220	4780 1130	3980 1080	2900 900	2390 820
K	灰铸铁, 球墨铸铁 (<32HRC) Gry cast iron, nodular cast iron 高合金铸铁 (35-45HRC) High alloy cast iron	ap≤1.5D ap≤0.15D	170	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	18050 1620	13540 1500	9020 1440	6770 1330	5410 1200	4510 1150	3380 1020	2710 930
				转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	15920 1290	11940 1250	7960 1190	5970 1090	4780 1000	3980 960	2990 850	2390 770
		ap≤1D ap≤0.05D	150	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	16710 1380	9550 380	6370 380	4780 380	3820 370	3190 360	2390 310	1910 290
				转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	16710 1380	9550 380	6370 380	4780 380	3820 370	3190 360	2390 310	1910 290
H	合金钢、淬硬钢(<60HRC) Alloy steel, hardened steel	ap≤1D ap≤0.05D	120	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	16710 1380	9550 380	6370 380	4780 380	3820 370	3190 360	2390 310	1910 290
				转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	16710 1380	9550 380	6370 380	4780 380	3820 370	3190 360	2390 310	1910 290

上表是侧铣加工的标准值，刀具切槽时，转速要以上表的50%~70%，进给速度要以40%~60%为标准值。

Above table is the standard cutting data for side milling machining, if for groove cutting the VC should reach 50%-70% and the feed should reach 40%-60% based on the table.

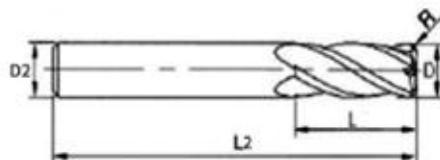
Carbide Corner Radius End Mill (Standard)

ST-H
YB AlCrSiN HRC 68  45° S



P	●
M	●
K	●
N	
S	●
H	●

单位 Unit	(mm)		
	D	D≤12	D>12
公差 Tol	0	0	
	-0.005	-0.005	



Diameter D mm	Radius R mm	Cutting Length L mm	Shank D2 mm	Overall Length L2 mm
1	R0.2	3	4	50
1.5	R0.2	4	4	50
2	R0.2	5	4	50
2.5	R0.2	7	4	50
2.5	R0.5	7	4	50
3	R0.2	8	4	50
3	R0.5	8	4	50
3	R1	8	4	50
3.5	R0.5	8	4	50
4	R0.2	10	4	50
4	R1	10	4	50
5	R0.2	13	6	50
5	R0.5	13	5	50
5	R0.5	13	6	50
5	R1	13	6	50
6	R0.2	15	6	50
6	R0.5	15	6	50
6	R1	15	6	50
8	R0.5	20	8	60
8	R1	20	8	60
10	R0.5	25	10	75
10	R1	25	10	75
12	R0.5	30	12	75
12	R1	30	12	75

Ordering Code

ST-H-4F-YB01002030450
ST-H-4F-YB015002040450
ST-H-4F-YB02002050450
ST-H-4F-YB025002074050
ST-H-4F-YB025005070450
ST-H-4F-YB03002080450
ST-H-4F-YB03005080450
ST-H-4F-YB0301080450
ST-H-4F-YB035005080450
ST-H-4F-YB04002100450
ST-H-4F-YB0401100450
ST-H-4F-YB05002130650
ST-H-4F-YB05005130550
ST-H-4F-YB05005130650
ST-H-4F-YB0501130650
ST-H-4F-YB06002150650
ST-H-4F-YB06005150650
ST-H-4F-YB0601150650
ST-H-4F-YB08005200860
ST-H-4F-YB0801200860
ST-H-4F-YB10005251075
ST-H-4F-YB1001251075
ST-H-4F-YB12005301275
ST-H-4F-YB1201301275

ISO	被加工材料 Workpiece Material	切削量 (mm) Depth of cut	Vc m/min	
P	碳钢合金 (<45HRC) Carbon steel alloy steel	ap≤1.5D ap≤0.15D	200	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)
	合金钢 (50HRC) Alloy Steel	ap≤1D ap≤0.12D	150	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)
M	不锈钢 stainless steel	ap≤1.5D ap≤0.15D	150	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)
K	灰铸铁, 球墨铸铁 (<32HRC) Grey cast iron, nodular cast iron	ap≤1.5D ap≤0.15D	170	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)
	高合金铸铁 (35-45HRC) High alloy cast iron	ap≤1D ap≤0.12D	150	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)
H	合金钢, 淬硬钢 (<60HRC) Alloy steel, hardened steel	ap≤1D ap≤0.05D	120	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)

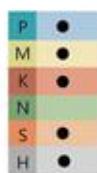
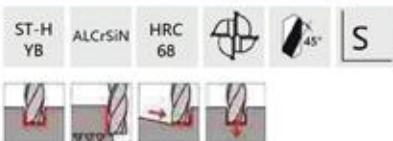
刃径 Tool Diameter (mm)							
3	4	6	8	10	12	16	20
							
21230 2040	15920 1960	10620 1690	7960 1670	6370 1620	5310 1590	3980 1490	3190 1480
15920 1290	10350 1180	7960 1080	5970 1160	4780 1050	3980 930	2990 760	2390 680
							
15920 1580	11940 1330	49600 1150	5970 1220	4780 1130	3980 1080	2900 900	2390 820
							
18050 1620	13540 1500	9020 1440	6770 1330	5410 1200	4510 1150	3380 1020	2710 930
15920 1290	11940 1250	7960 1190	5970 1090	4780 1000	3980 960	2990 850	2390 770
							
16710 380	9550 380	6370 380	4780 380	3820 370	3190 360	2390 310	1910 290

上表是侧铣加工的标准值，刀具切削时，转速要以上表的50%~70%，进给速度要以40%~60%为标准值。

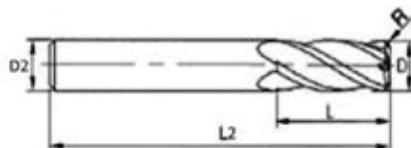
Above table is the standard cutting data for side milling machining, if for groove cutting the VC should reach 50%-70% and the feed should reach 40%-60% based on the table.



Carbide Corner Radius End Mill (Extra Long)



单位 Unit	(mm)	
	D	D≤12 D>12
公差 Tol	0	0
	-0.005	-0.005



Diameter D mm	Radius R mm	Cutting Length L mm	Shank D2 mm	Overall Length L2 mm
4	R0.5	10	4	75
4	R1	10	4	75
5	R0.5	13	5	75
6	R0.5	15	6	75
6	R1	15	6	75
8	R0.5	50	8	75
8	R1	20	8	75
4	R0.5	10	4	100
4	R1	10	4	100
6	R0.5	15	6	100
6	R1	15	6	100
8	R0.5	20	8	100
8	R1	20	8	100
10	R0.5	25	10	100
10	R1	25	10	100
12	R0.5	30	12	100
12	R1	30	12	100
10	R0.5	40	10	150
10	R1	40	10	150
12	R0.5	48	12	150

Ordering Code

ST-H-4F-YB04005100475
ST-H-4F-YB0401100475
ST-H-4F-YB05005130575
ST-H-4F-YB06005150675
ST-H-4F-YB0601150675
ST-H-4F-YB08005500875
ST-H-4F-YB0801200875
ST-H-4F-YB040051004100
ST-H-4F-YB04011004100
ST-H-4F-YB060051506100
ST-H-4F-YB06011506100
ST-H-4F-YB080052008100
ST-H-4F-YB08012008100
ST-H-4F-YB100052510100
ST-H-4F-YB10012510100
ST-H-4F-YB120053012100
ST-H-4F-YB12013012100
ST-H-4F-YB100054010150
ST-H-4F-YB10014010150
ST-H-4F-YB120054812150

ISO	被加工材料 Workpiece Material	切削量 (mm) Depth of cut	Vc m/min		刃径 Tool Diameter (mm)							
					3	4	6	8	10	12	16	20
P	碳钢合金 (<45HRC) Carbon steel alloy steel 合金钢 (50HRC) Alloy Steel	ap≤1.5D ap≤0.15D ap≤1D ap≤0.12D	200 150	转速 rate speed (min-1) 进给转速 feed velocity (mm/min) 转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	21230 2040	15920 1960	10620 1690	7960 1670	6370 1620	5310 1590	3980 1490	3190 1480
					15920 1290	10350 1180	7960 1080	5970 1160	4780 1050	3980 930	2990 760	2390 680
M	不锈钢 stainless steel	ap≤1.5D ap≤0.15D	150	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	15920 1580	11940 1330	49600 1150	5970 1220	4780 1130	3980 1080	2900 900	2390 820
					18050 1620	13540 1500	9020 1440	6770 1330	5410 1200	4510 1150	3380 1020	2710 930
K	灰铸铁, 球墨铸铁 (<32HRC) Grey cast iron, nodular cast iron 高合金铸铁 (35-45HRC) High alloy cast iron	ap≤1.5D ap≤0.15D ap≤1D ap≤0.12D	170 150	转速 rate speed (min-1) 进给转速 feed velocity (mm/min) 转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	15920 1290	11940 1250	7960 1190	5970 1090	4780 1000	3980 960	2990 850	2390 770
					16710 380	9550 380	6370 380	4780 380	3820 370	3190 360	2390 310	1910 290

上表是侧铣加工的标准值，刀具切槽时，转速要以上表的50%~70%，进给速度要以40%~60%为标准值。

Above table is the standard cutting data for side milling machining, if for groove cutting the VC should reach 50%-70% and the feed should reach 40%-60% based on the table.

高性能ST-U系列铣刀

HIGH PERFORMANCE ST-U SERIES ENDMILL

超高硬高效立铣刀

EXTREMELY HIGH HARDNESS AND
HIGH PERFORMANCE END MILL

- 底刃不等分，大螺旋角设计，减少震动，加工表面光洁度高
- 特殊的刀具设计，非常适合加工各种难加工硬钢
- Variable bottom edges and large helix angle to reduce vibration and improve surface finish.
- The tool design is especially suitable for machining high hardness steel.



不等分特殊刃形，减少震动，表面光洁度高

Specially uneven blade shape, reduced vibration, high surface gloss

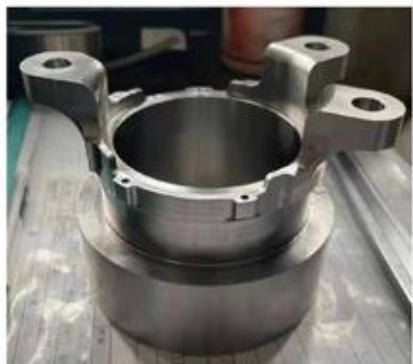
全球合作伙伴-WORLDWIDE RELIABLE PARTNERS



底刃不等分，大幅度抑制振动，减少震动，可实现稳定加工
The bottom edge is not equally divided, greatly inhibit vibration, reduce vibration, can realize stable processing

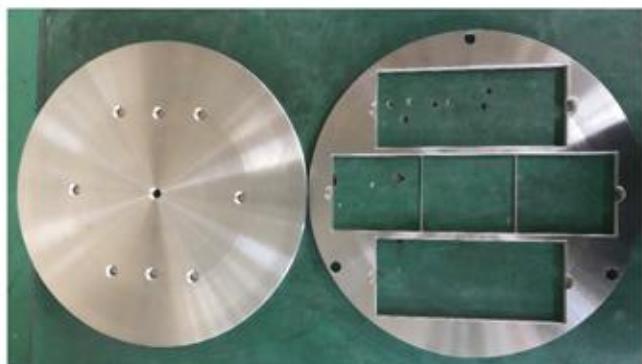
特殊的容屑槽形状，即使在沟槽及型腔加工中也能表现出优异的性能

Special chip groove shape, even in the groove and cavity machining can also show excellent performance.



加工材料: TC18 钛合金
刀具规格: MS4CD10四刃平刀
加工参数: S=2000 F=1000 动态铣削
切削量: Ap: 20.0mm Ae: 02~0.3mm

Processing material: TC18 titanium alloy
Tool specifications: MS4CD10 four-edged flat knife
Processing parameters: S=2000 F=1000 dynamic milling
Cutting amount: Ap: 20.0mm Ae: 02~0.3mm



T2 纯钛 加工案例

使用机械:常准(TMV-11H)

加工材料:T2纯钛

工件尺寸:

直径350mm, 厚度7mm

刀具规格:

MS4C D6 四刃平刀

切削速度:

VC=85

加工参数:

S=4500 F=1800开槽切槽

切削量:Ap:0.25mm Ae:6.0mm

T2 pure titanium processing case

Machine used: Changsha (TMV-11H)

Processing material: T2 pure titanium

Work piece size:

Diameter 350mm, thickness 7mm

Tool specifications:

MS4C D6 four-edged flat knife

Cutting speed:

VC=85

Processing parameters:

S=4500 F=1800 grooving and grooving

Cutting amount: Ap: 0.25mm Ae: 6.0mm



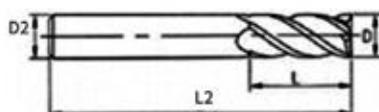
Carbide 4Flutes Square End Mill (Standard)

ST-U ALCrSiN HRC 68 42° S



P	●
M	●
K	●
N	●
S	●
H	●

单位 Unit	(mm)	
D	D≤12	D>12
公差 Tol	0	0
	-0.005	-0.005



Diameter D mm	Cutting Length L mm	Shank D2 mm	Overall Length L2 mm
1	3	4	50
1.5	5	4	50
2	6	4	50
2.5	8	4	50
3	9	4	50
4	11	4	50
5	13	6	50
6	15	6	50
8	20	8	60
10	25	10	75
12	30	12	75
16	45	16	100

Ordering Code

ST-U-4F-01030450
 ST-U-4F-015050450
 ST-U-4F-02060450
 ST-U-4F-025080450
 ST-U-4F-03090450
 ST-U-4F-04110450
 ST-U-4F-051360550
 ST-U-4F-06150650
 ST-U-4F-08200860
 ST-U-4F-10251075
 ST-U-4F-12301275
 ST-U-4F-164516100

Carbide 4Flutes Square End Mill (Extra Long)

Diameter D mm	Cutting Length L mm	Shank D2 mm	Overall Length L2 mm
4	12	4	75
6	18	6	75
8	24	8	75
6	18	6	100
8	24	8	100
10	30	10	100
12	36	12	100

Ordering Code

ST-U-4F-04120475
 ST-U-4F-06180675
 ST-U-4F-08240875
 ST-U-4F-061806100
 ST-U-4F-082408100
 ST-U-4F-103010100
 ST-U-4F-123612100

ISO	被加工材料 Workpiece Material	切削量 (mm) Depth of cut	Vc m/min		刃倾 Tool Diameter (mm)							
					3	4	6	8	10	12	16	20
P	碳钢 (45HRC) Carbon steel alloy steel 合金钢 (50HRC) Alloy Steel	ap≤1.5D ap≤0.15D ap≤1D ap≤0.12D	200 150	转速 rate speed (min-1) 进给转速 feed velocity (mm/min) 转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	21230 2040 15920 1290	15920 1960 10350 1180	10620 1690 7960 1080	7960 1670 5970 1160	6370 1620 4780 1050	5310 1590 3980 930	3980 1490 2990 760	3190 1480 2390 680
M	不锈钢 stainless steel	ap≤1.5D ap≤0.15D	150	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	15920 1580	11940 1330	49600 1150	5970 1220	4780 1130	3980 1080	2900 900	2390 820
K	灰铸铁, 球墨铸铁 (<32HRC) Grey cast iron, nodular cast iron 高合金铸铁 (35-45HRC) High alloy cast iron	ap≤1.5D ap≤0.15D ap≤1D ap≤0.12D	170 150	转速 rate speed (min-1) 进给转速 feed velocity (mm/min) 转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	18050 1620 15920 1290	13540 1500 11940 1250	9020 1440 7960 1190	6770 1330 5970 1090	5410 1200 4780 1000	4510 1150 3980 960	3380 1020 2990 850	2710 930 2390 770
H	合金钢、淬硬钢 (<60HRC) Alloy steel, hardened steel	ap≤1D ap≤0.05D	120	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	16710 380	9550 380	6370 380	4780 370	3820 370	3190 360	2390 310	1910 290

上表是侧铣加工的标准值，刀具切槽时，转速要以上表的50%~70%，进给速度要以40%~60%为标准值。

Above table is the standard cutting data for side milling machining, if for groove cutting the VC should reach 50%-70% and the feed should reach 40%-60% based on the table.

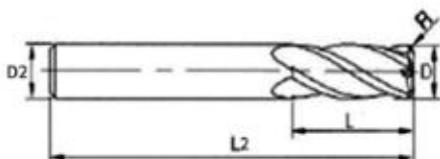
Carbide Corner Radius End Mill (Standard)

ST-U
YB AlCrSiN HRC 68 42° 30° S



P	●
M	●
K	●
N	●
S	●
H	●

单位 Unit	(mm)		
	D	D≤12	D>12
公差 Tol	0	0	-0.005
			-0.005



Diameter D mm	Radius R mm	Cutting Length L mm	Shank D2 mm	Overall Length L2 mm
1	R0.2	3	4	50
1.5	R0.2	4	4	50
2	R0.2	5	4	50
3	R0.2	9	4	50
3	R0.5	9	4	50
4	R0.2	11	4	50
4	R0.5	11	4	50
5	R0.5	13	6	50
5	R1	13	6	50
5	R0.2	13	6	50
6	R0.2	15	15	50
6	R0.5	15	15	50
6	R1	15	15	50
8	R0.5	20	20	60
8	R1	20	20	60
10	R0.5	25	25	75
10	R1	25	25	75
12	R0.5	30	30	75
12	R1	30	30	75

Ordering Code

ST-U-4F-YB0100200450
ST-U-4F-YB015002040450
ST-U-4F-YB02002050450
ST-U-4F-YB03002090450
ST-U-4F-YB03005090450
ST-U-4F-YB04002110450
ST-U-4F-YB04005110450
ST-U-4F-YB05005130650
ST-U-4F-YB0501130650
ST-U-4F-YB05002130650
ST-U-4F-YB06002150650
ST-U-4F-YB06005150650
ST-U-4F-YB06011150650
ST-U-4F-YB08005200860
ST-U-4F-YB0801200860
ST-U-4F-YB1000521075
ST-U-4F-YB1001251075
ST-U-4F-YB12005301275
ST-U-4F-YB120131275

ISO	被加工材料 Workpiece Material	切削量 (mm) Depth of cut	Vc m/min		刃径 Tool Diameter (mm)							
					3	4	6	8	10	12	16	20
P	硬质合金 (<45HRC) Carbon steel alloy steel 合金钢 (50HRC) Alloy Steel	ap≤1.5D ap≤0.15D ap≤1D ap≤0.12D	200 150	转速 rate speed (min-1) 进给转速 feed velocity (mm/min) 转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	21230 2040	15920 1960	10620 1690	7960 1670	6370 1620	5310 1590	3980 1490	3190 1480
					15920 1290	10350 1180	7960 1080	5970 1160	4780 1050	3980 930	2990 760	2390 680
M	不锈钢 stainless steel	ap≤1.5D ap≤0.15D	150	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	15920 1580	11940 1330	49600 1150	5970 1220	4780 1130	3980 1080	2900 900	2390 820
					18050 1620	13540 1500	9020 1440	6770 1330	5410 1200	4510 1150	3380 1020	2710 930
K	灰铸铁, 球墨铸铁 (<32HRC) Gry cast iron, nodular cast iron 高合金铸铁 (35-45HRC) High alloy cast iron	ap≤1.5D ap≤0.15D ap≤1D ap≤0.12D	170 150	转速 rate speed (min-1) 进给转速 feed velocity (mm/min) 转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	15920 1290	11940 1250	7960 1190	5970 1090	4780 1000	3980 960	2990 850	2390 770
					16710 380	9550 380	6370 380	4780 370	3820 360	3190 310	2390 290	1910 290
H	合金钢, 淬硬钢(<60HRC) Alloy steel, hardened steel	ap≤1D ap≤0.05D	120	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	16710 380	9550 380	6370 380	4780 370	3820 360	3190 310	2390 290	1910 290

上表是侧铣加工的标准值, 刀具切槽时, 转速要以上表的50%~70%, 进给速度要以40%~60%为标准值。

Above table is the standard cutting data for side milling machining, if for groove cutting the VC should reach 50%-70% and the feed should reach 40%-60% based on the table.

AL系列

超亮铝加工立铣刀

Super Bright Aluminum Processing Series



高光·HIGHLIGHT

- 适用于铝合金材料的高效超亮加工
- 底刃变分度，独特螺旋角设计，拥有卓越的抗震性能，加工表面精度高
- It is suitable for high-efficiency super bright processing of aluminum alloy materials.
- The variable indexing of the bottom edge, the unique design of the helix angle, has excellent anti-seismic performance and high precision of the processed surface.

特殊的刃口设计，有效解决刀具刃口沾屑问题
Special edge design, effectively solve the problem of sticky

全球合作伙伴-WORLDWIDE RELIABLE PARTNERS

铝合金材料的高效超亮加工

Aluminum alloy material efficient ultra-bright processing



抑制毛刺 Inhibition of burr

大前角和小棱边实现优秀的切削效果。

Large front angle and small edge achieve excellent cutting effect.

大容屑槽 Large Chip flute

在高进给加工中，刀具的切削与排屑更加流畅。

The cutting and chip removal are more smooth and stable in the high feed processing.

锋利切削刃 Sharp cutting edge

锋利的切削刃及大螺旋角设计有效防止机屑瘤的产生

Sharp cutting edge and large spiral angle design can effectively prevent the generation of built-up edge.



特殊的刃口设计

有效解决刀具刃口粘屑问题

Special edge design

Effectively solve the sticking

高光•HIGHLIGHT



特殊的容屑槽形状，即使在沟槽及型腔加工中也能表现出优异的性能

Special chip flute shape, can show excellent performance even in groove and cavity machining.

① 大排屑空间,不易积屑

Large chip removal space, not easy to accumulate chips

② 抗震工艺,锋利月牙刃口

Anti-seismic technology, sharp crescent edge

全刃口抗震设计，能抑制加工过程中的颤振，提高加工表面质量。

Full-edge anti-vibration design can suppress vibration during processing and improve the quality of the processed surface.





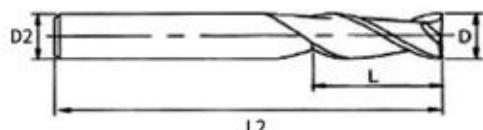
2Flutes Square End Mill For Aluminum (Standard)

LYJCD AL HRC 55 S



P
M
K
N
S
H

单位 Unit	(mm)	
D	D≤12	D>12
公差 Tol	0	0
	-0.015	-0.02



Diameter D mm	Cutting Length L mm	Shank D2 mm	Overall Length L2 mm
1	3	4	50
1.5	5	4	50
2	6	4	50
2.5	8	4	50
3	9	3	50
3.5	11	4	50
4	12	4	50
5	15	5	50
5	15	6	50
6	18	6	50
7	24	8	60
8	24	8	60
10	30	10	75
11	35	12	75
12	35	12	75
14	45	14	100
16	45	16	100
18	45	18	100
20	45	20	100

Ordering Code

LYJCD-2F-01030450
LYJCD-2F-015050450
LYJCD-2F-02060450
LYJCD-2F-025080450
LYJCD-2F-03090350
LYJCD-2F-03090450
LYJCD-2F-035110450
LYJCD-2F-04120450
LYJCD-2F-05150550
LYJCD-2F-05150650
LYJCD-2F-06180650
LYJCD-2F-07240860
LYJCD-2F-08240860
LYJCD-2F-10301075
LYJCD-2F-11351275
LYJCD-2F-12351275
LYJCD-2F-144514100
LYJCD-2F-164516100
LYJCD-2F-184518100
LYJCD-2F-204520100

ISO	被加工材料 Workpiece Material	切削量 (mm) Depth of cut	Vc m/min		刃径 tool Diameter (mm)								
					1	2	4	6	8	10	12	16	20
N	锻造及铸造铝合金(Si<12%) Forging and casting aluminum alloy 铝合金(<200HB) Copper alloy	ap≤1.5D ap≤0.2D ap≤1.5D ap≤0.2D	150 (60~350)	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	16000 580	12700 710	12000 1280	10600 1390	10000 1720	9500 2400	9280 2500	7000 2450	5600
					16000 520	12700 650	12000 1070	10600 1150	10000 1250	9500 1550	9280 2170	7000 2250	5600 2200

ISO	被加工材料 Workpiece Material	切削量 (mm) Depth of cut	Vc m/min		刃径 tool Diameter (mm)								
					1	2	4	6	8	10	12	16	20
N	锻造及铸造铝合金(Si<12%) Forging and casting aluminum alloy 铝合金(<200HB) Copper alloy	ap≤0.5D ap≤1D ap≤0.5D ap≤1D	150 (60~350)	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	16000 400	10000 500	9000 810	8000 920	7800 1100	8000 1280	6800 1300	5000 1310	4000 1200
					16000 380	10000 450	9000 800	8000 830	7800 1000	8000 1150	6800 1130	5000 1000	4000 1080



铝合金, 超高亮效 Aluminum Alloy, Super Bright High Efficient

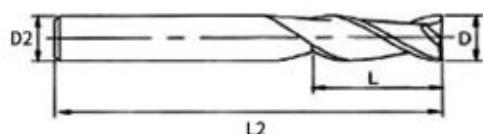
2Flutes Square End Mill For Aluminum (Extra Long)

LYJCD AL HRC 55 S



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单位 Unit	(mm)	
	D	D≤12 D>12
公差 Tol	0	0
	-0.015	-0.02



Diameter D mm	Cutting Length L mm	Shank D2 mm	Overall Length L2 mm
3	12	3	75
4	16	4	75
5	18	5	75
6	25	6	75
8	25	8	75
3	12	3	100
4	20	4	100
5	30	5	100
6	30	6	100
8	35	8	100
10	40	10	100
12	45	12	100
6	45	6	150
8	50	8	150
10	55	10	150
12	55	12	150
14	70	14	150
16	80	16	150
18	80	18	150
20	80	20	150

Ordering Code

LYJCD-2F-03120375
 LYJCD-2F-04160475
 LYJCD-2F-05180575
 YJCD-2F-06250675
 LYJCD-2F-08250875
 LYJCD-2F-031203100
 YJCD-2F-042004100
 LYJCD-2F-053005100
 LYJCD-2F-063006100
 LYJCD-2F-083508100
 YJCD-2F-104010100
 LYJCD-2F-124512100
 LYJCD-2F-064506150
 LYJCD-2F-085008150
 LYJCD-2F-105510150
 LYJCD-2F-125512150
 LYJCD-2F-147014150
 LYJCD-2F-168016150
 LYJCD-2F-188018150
 LYJCD-2F-208020150

ISO	被加工材料 Workpiece Material	切削量 (mm) Depth of cut	Vc m/min	
N	锻造及铸造铝合金(Si<12%) Forging and casting aluminum alloy 铜合金(<200HB) Copper alloy	ap≤1.5D 150 ap≤0.2D (60~350)	转速 rate speed (min-1) 16000 580 进给转速 feed velocity (mm/min) 12700 710 12000 1280 10000 1390 1720 2400 2500 2450	

刃径 tool Diameter (mm)									
1	2	4	6	8	10	12	16	20	

ISO	被加工材料 Workpiece Material	切削量 (mm) Depth of cut	Vc m/min	
N	锻造及铸造铝合金(Si<12%) Forging and casting aluminum alloy 铜合金(<200HB) Copper alloy	ap≤0.5D 150 ap≤1D (60~350) ap≤0.5D 150 ap≤1D (60~350)	转速 rate speed (min-1) 16000 400 进给转速 feed velocity (mm/min) 10000 500 8000 820 7800 1100 1280 1300 1310 1200	

刃径 tool Diameter (mm)									
1	2	4	6	8	10	12	16	20	



铝合金，超高亮效 Aluminum Alloy, Super Bright High Efficient

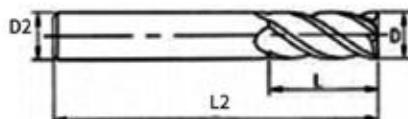
3Flutes Square End Mill For Aluminum (Standard)

LYD DLC HRC 55 S



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单位 Unit	(mm)	
D	D≤12	D>12
公差 Tol	0	0
	-0.015	-0.02



Diameter D mm	Cutting Length L mm	Shank D2 mm	Overall Length L2 mm
1	3	4	50
1.5	5	4	50
2	6	4	50
2.5	8	4	50
3	9	3	50
3	9	4	50
3.5	11	4	50
4	12	4	50
5	15	5	50
5	15	6	50
6	18	6	50
7	24	8	60
8	24	8	60
9	30	10	75
10	30	10	75
11	35	12	75
12	35	12	75
14	45	14	100
16	45	16	100
18	45	18	100
20	45	20	100

Ordering Code

LYD-3F-01030450
 LYD-3F-015050450
 LYD-3F-02060450
 LYD-3F-025080450
 LYD-3F-03090350
 LYD-3F-03090450
 LYD-3F-035110450
 LYD-3F-04120450
 LYD-3F-05150550
 LYD-3F-05150650
 LYD-3F-06180650
 LYD-3F-07240860
 LYD-3F-08240860
 LYD-3F-09301075
 LYD-3F-10301075
 LYD-3F-11351275
 LYD-3F-12351275
 LYD-3F-144514100
 LYD-3F-164516100
 LYD-3F-184518100
 LYD-3F-204520100

ISO	被加工材料 Workpiece Material	切削量 (mm) Depth of cut	Vc m/min	
N	锻造及铸造铝合金(SI<12%) Forging and casting aluminum alloy 铜合金(<200HB) Copper alloy	ap≤1.5D (60~350)	150 (60~350)	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)
		ap≤0.2D		
		ap≤1.5D (60~350)	150 (60~350)	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)
		ap≤0.2D		

刃径 tool Diameter (mm)								
1	2	4	6	8	10	12	16	20
16000	12700	12000	10600	10000	9500	9280	7000	5600
580	710	1200	1280	1390	1720	2400	2500	2450
16000	12700	12000	10600	10000	9500	9280	7000	5600
520	650	1070	1150	1250	1550	2170	2250	2200

ISO	被加工材料 Workpiece Material	切削量 (mm) Depth of cut	Vc m/min	
N	锻造及铸造铝合金(SI<12%) Forging and casting aluminum alloy 铜合金(<200HB) Copper alloy	ap≤0.5D (60~350)	150 (60~350)	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)
		ap≤1D		
		ap≤0.5D (60~350)	150 (60~350)	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)
		ap≤1D		

刃径 tool Diameter (mm)								
1	2	4	6	8	10	12	16	20
16000	10000	9000	8000	7800	8000	6800	5000	4000
400	500	810	920	1100	1280	1300	1310	1200
16000	10000	9000	8000	7800	8000	6800	5000	4000
380	450	800	830	1000	1150	1130	1000	1080



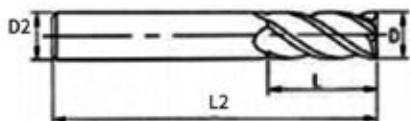
3Flutes Square End Mill For Aluminum (Extra Long)

LYD DLC HRC 55 S



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单位 Unit	(mm)	
D	D≤12	D>12
公差 Tol	0	0
	-0.015	-0.02



Diameter D mm	Cutting Length L mm	Shank D2 mm	Overall Length L2 mm
2	6	4	75
3	9	4	75
3	12	3	75
3.5	11	4	75
4	16	4	75
5	18	5	75
6	25	6	75
8	30	8	75
3	12	3	100
4	20	4	100
5	30	5	100
6	30	6	100
8	35	8	100
10	40	10	100
12	45	12	100
6	45	6	150
8	50	8	150
10	55	10	150
12	55	12	150
14	70	14	150
16	80	16	150
18	80	18	150
20	80	20	150
6	50	6	200
8	60	8	200
10	65	10	200
12	70	12	200
14	80	14	200
16	85	16	200
20	90	20	200

Ordering Code

LYD-3F-02060475
LYD-3F-03090475
LYD-3F-03120375
LYD-3F-035110475
LYD-3F-04160475
LYD-3F-05180575
LYD-3F-06250675
LYD-3F-08300875
LYD-3F-031203100
LYD-3F-042004100
LYD-3F-053005100
LYD-3F-063006100
LYD-3F-083508100
LYD-3F-104010100
LYD-3F-124512100
LYD-3F-064506150
LYD-3F-085008150
LYD-3F-105510150
LYD-3F-125512150
LYD-3F-147014150
LYD-3F-168016150
LYD-3F-188018150
LYD-3F-208020150
LYD-3F-065006200
LYD-3F-08608200
LYD-3F-106510200
LYD-3F-127012200
LYD-3F-148014200
LYD-3F-168516200
LYD-3F-209020200

ISO	被加工材料 Workpiece Material	切削量 (mm) Depth of cut	Vc m/min	
N	锻造及铸造铝合金(Si<12%) Forging and Casting aluminum alloy 有色合金(<200HB) Copper alloy	aps1.5D aps0.2D (60~350)	150 (60~350)	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)

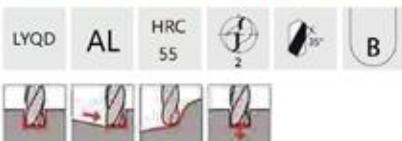
刃倾 tool Diameter (mm)								
1	2	4	6	8	10	12	16	20
16000 650 16000 720	13000 850 13000 900	12000 1430 12000 1200	10600 1530 10600 1500	10000 1670 9500 1500	9500 2050 9280 1800	9280 2800 7000 2225	7000 3000 5600 2500	5600 3150 5600 3000

ISO	被加工材料 Workpiece Material	切削量 (mm) Depth of cut	Vc m/min	
N	锻造及铸造铝合金(Si<12%) Forging and Casting aluminum alloy 有色合金(<200HB) Copper alloy	aps1.5D aps0.2D (60~350)	150 (60~350)	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)

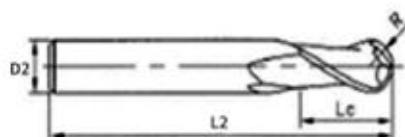
刃倾 tool Diameter (mm)								
1	2	4	6	8	10	12	16	20
16000 450 16000 450	10000 570 10000 520	9000 1050 9000 860	8000 1300 8000 830	7800 1500 7800 9600	8000 1620 8000 1240	6800 1680 6800 1500	5000 1800 5000 1510	4000 1510



Ball Nose End Mill For Aluminum (Standard)



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单位 Unit	(mm)		
	R	R≤1.5	1.5< R <3
公差 Tol	0	0	0
	-0.01	-0.015	-0.02

Cutting Length L mm	Radius R mm	Shank D2 mm	Overall Length L2 mm
2	0.5	4	50
3	0.75	4	50
4	1	4	50
5	1.25	4	50
6	1.5	3	50
6	1.5	4	50
7	1.75	4	50
12	2	4	50
12	2.5	5	50
12	2.5	6	50
12	3	6	50
16	4	8	60
20	5	10	75
24	6	12	75
28	7	14	100
32	8	16	100
36	9	18	100
40	10	20	100

Ordering Code

LYQD-2F-01020450
LYQD-2F-015030450
LYQD-2F-02040450
LYQD-2F-025050450
LYQD-2F-03060350
LYQD-2F-03060450
LYQD-2F-035070450
LYQD-2F-04080450
LYQD-2F-05100550
LYQD-2F-05100650
LYQD-2F-06120650
LYQD-2F-08160860
LYQD-2F-10201075
LYQD-2F-12241275
LYQD-2F-142814100
LYQD-2F-163216100
LYQD-2F-183618100
LYQD-2F-204020100

ISO	被加工材料 Workpiece Material	切削量 (mm) Depth of cut	Vc m/min		刃径 tool Diameter (mm)							
					1	2	4	6	8	10	12	16
N	锻造及铸造铝合金(Si<12%) Forging and casting aluminum alloy 铝合金(<200HB) Copper alloy	ap≤0.5D ap≤1D ap≤0.5D ap≤1D	150 (60~350) 150 (60~350)	转速 rate speed (min-1) 进给转速 feed velocity (mm/min) 转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	19000 950 19000 860	15900 1600 15900 1430	11900 1900 11900 1720	10600 2500 10600 2300	8000 2250 8000 2300	7950 3800 7950 2850	7950 3800 7950 3450	7000 4450 7000 4010

- 请使用高精度的机床和刀柄。
 - 请使用油冷却液。
 - 机床与工件安装刚性较差的情况下，会产生振动和异常声音，此时应将上表的转速与进给速度同比降低。
 - 在不干涉的条件下尽可能使刀具悬长最短。
1. Please use high-precision machine tools and tool holder.
 2. Pls use oil cooled cutting liquid.
 3. When the rigidity of the machine tool and the workpiece is poorly installed, vibration and abnormal sound will occur.
 At this time, the rotation speed and feed rate of the above table should be reduced.
 4. Keep the tool overhang as short as possible without interference.



铝合金, 超高亮效 Aluminum Alloy, Super Bright High Efficient

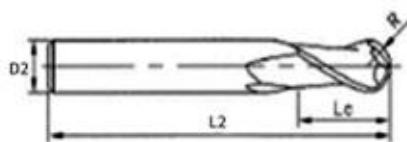
Ball Nose End Mill For Aluminum (Extra Long)

LYQD AL HRC 55 B



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单位 Unit	(mm)		
	R	R≤1.5	1.5<R<3
公差Tol	0	0	0
	-0.01	-0.015	-0.02



Cutting Length L mm	Radius R mm	Shank D2 mm	Overall Length L2 mm
6	1.5	3	75
8	2	4	75
10	2.5	5	75
12	3	6	75
16	4	8	75
6	1.5	3	100
8	2	4	100
10	2.5	5	100
12	3	6	100
16	4	8	100
20	5	10	100
24	6	12	100
12	3	6	150
16	4	8	150
20	5	10	150
24	6	12	150

Ordering Code

LYQD-2F-03060375
 LYQD-2F-04080475
 LYQD-2F-05100575
 LYQD-2F-06120675
 LYQD-2F-08160875
 LYQD-2F-030603100
 LYQD-2F-040804100
 LYQD-2F-051005100
 LYQD-2F-061206100
 LYQD-2F-081608100
 LYQD-2F-102010100
 LYQD-2F-122412100
 LYQD-2F-061206150
 LYQD-2F-081608150
 LYQD-2F-102010150
 LYQD-2F-122412150

ISO	被加工材料 Workpiece Material	切削量 (mm) Depth of cut	Vc m/min		刃径 tool Diameter (mm)							
					1	2	4	6	8	10	12	16
N	锻造及铸造铝合金(Si<12%) Forging and casting aluminum alloy 铜合金(<200HB) Copper alloy	ap≤0.5D ap≤1D ap≤0.5D ap≤1D	150 (60~350) 150 (60~350)	转速 rate speed (min-1) 进给转速 feed velocity (mm/min) 转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	19000 950 19000 860	15900 1600 11900 1430	11900 1900 10600 1720	10600 2500 8000 2300	8000 2250 7950 2300	7950 3800 7950 2850	7950 3800 7950 3450	7000 4450 7000 4010

- 1.请使用高精度的机床和刀柄。
 - 2.请使用油冷却液的切削液。
 - 3.机床与工件安装刚性较差的情况下，会产生振动和异常声音，此时应将上表的转速与进给速度同比降低。
 - 4.在不干涉的条件下尽可能使刀具悬长最短。
1. Please use high-precision machine tools and tool holder.
 2. Pls use oil cooled cutting liquid.
 3. When the rigidity of the machine tool and the workpiece is poorly installed, vibration and abnormal sound will occur.
 At this time, the rotation speed and feed rate of the above table should be reduced.
 4. Keep the tool overhang as short as possible without interference.



铝合金, 超高亮效 Aluminum Alloy, Super Bright High Efficient

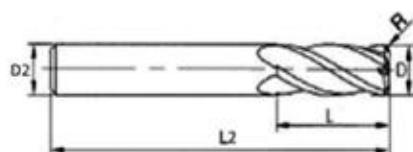
Carbide Corner Radius End Mill (Standard)

LYYB AL HRC 55 3 S



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单位 Unit	(mm)	
D	D≤12	D>12
公差 Tol	0	0
	-0.015	-0.02



Diameter D	Radius R	Cutting Length L	Shank D2	Overall Length L2
mm	mm	mm	mm	mm
1	0.2	3	4	50
1.5	0.2	4.5	4	50
2	0.2	6	4	50
2	0.5	6	4	50
3	0.2	9	4	50
3	0.5	9	4	50
3	1	9	4	50
4	0.5	12	4	50
4	1	12	4	50
5	0.5	18	6	50
5	0.5	18	5	50
5	1	18	5	50
5	1	18	6	50
6	0.5	18	6	50
6	1	18	6	50
8	0.5	24	8	60
8	1	24	8	60
8	2	24	8	60
10	0.5	30	10	75
10	1	30	10	75
12	0.5	35	12	75
12	1	35	12	75

Ordering Code

LYYB-3F-0102030450
LYYB-3F-01502050450
LYYB-3F-0202060450
LYYB-3F-0205060450
LYYB-3F-0302090450
LYYB-3F-0305090450
LYYB-3F-031090450
LYYB-3F-0405120450
LYYB-3F-041120450
LYYB-3F-0505130650
LYYB-3F-0505130550
LYYB-3F-051130550
LYYB-3F-051130650
LYYB-3F-0605150650
LYYB-3F-061150650
LYYB-3F-0805200860
LYYB-3F-081200860
LYYB-3F-082200860
LYYB-3F-1005251075
LYYB-3F-101251075
LYYB-3F-1205301275
LYYB-3F-121301275

ISO	被加工材料 Workpiece Material	切削量 (mm) Depth of cut	Vc m/min	
N	锻造及铸造铝合金(Si<12%) Forging and casting aluminum alloy 铜合金(<200HB) Copper alloy	ap≤1.5D ap≤0.2D	150 (60~350)	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)
		ap≤1.5D ap≤0.2D	150 (60~350)	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)

刃径 tool Diameter (mm)								
1	2	4	6	8	10	12	16	20
16000 650	13000 850	12000 1200	10600 1530	10000 1670	9500 2050	9280 2800	7000 3000	5600 3150

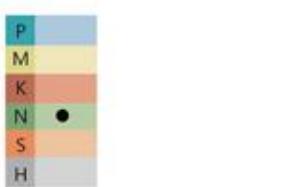
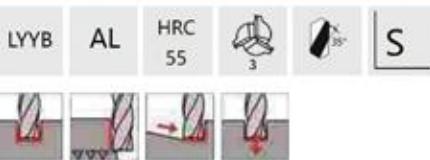
ISO	被加工材料 Workpiece Material	切削量 (mm) Depth of cut	Vc m/min	
N	锻造及铸造铝合金(Si<12%) Forging and casting aluminum alloy 铜合金(<200HB) Copper alloy	ap≤0.5D ap≤1D	150 (60~350)	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)
		ap≤0.5D ap≤1D	150 (60~350)	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)

刃径 tool Diameter (mm)								
1	2	4	6	8	10	12	16	20
16000 450	10000 570	9000 960	8000 1050	7800 1300	8000 1500	6800 1620	5000 1680	4000 1800

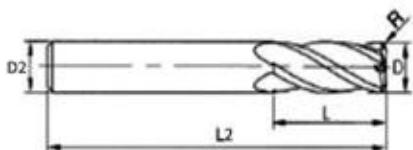


铝合金, 超高亮效 Aluminum Alloy, Super Bright High Efficient

Carbide Corner Radius End Mill (Extra Long)



单位 Unit	(mm)		
	D	D≤12	D>12
公差 Tol	0	0	-0.015
			-0.02



Diameter D	Radius R	Cutting Length L	Shank D2	Overall Length L2
mm	mm	mm	mm	mm
4	0.5	20	4	75
4	1	20	4	75
6	0.5	25	6	75
6	1	25	6	75
8	0.5	30	8	75
8	1	30	8	75
4	0.5	25	4	100
4	1	25	4	100
6	0.5	30	6	100
6	1	30	6	100
8	0.5	35	8	100
8	1	35	8	100
10	0.5	40	10	100
10	1	40	10	100
12	0.5	45	12	100
12	1	45	12	100

Ordering Code

LYYB-3F-0405160475
LYYB-3F-041160475
LYYB-3F-0605240675
LYYB-3F-061240675
LYYB-3F-0805250875
LYYB-3F-081250875
LYYB-3F-04052004100
LYYB-3F-0412004100
LYYB-3F-06053006100
LYYB-3F-061300610
LYYB-3F-08053508100
LYYB-3F-0813508100
LYYB-3F-10054010100
LYYB-3F-1014010100
LYYB-3F-12054512100
LYYB-3F-1214512100

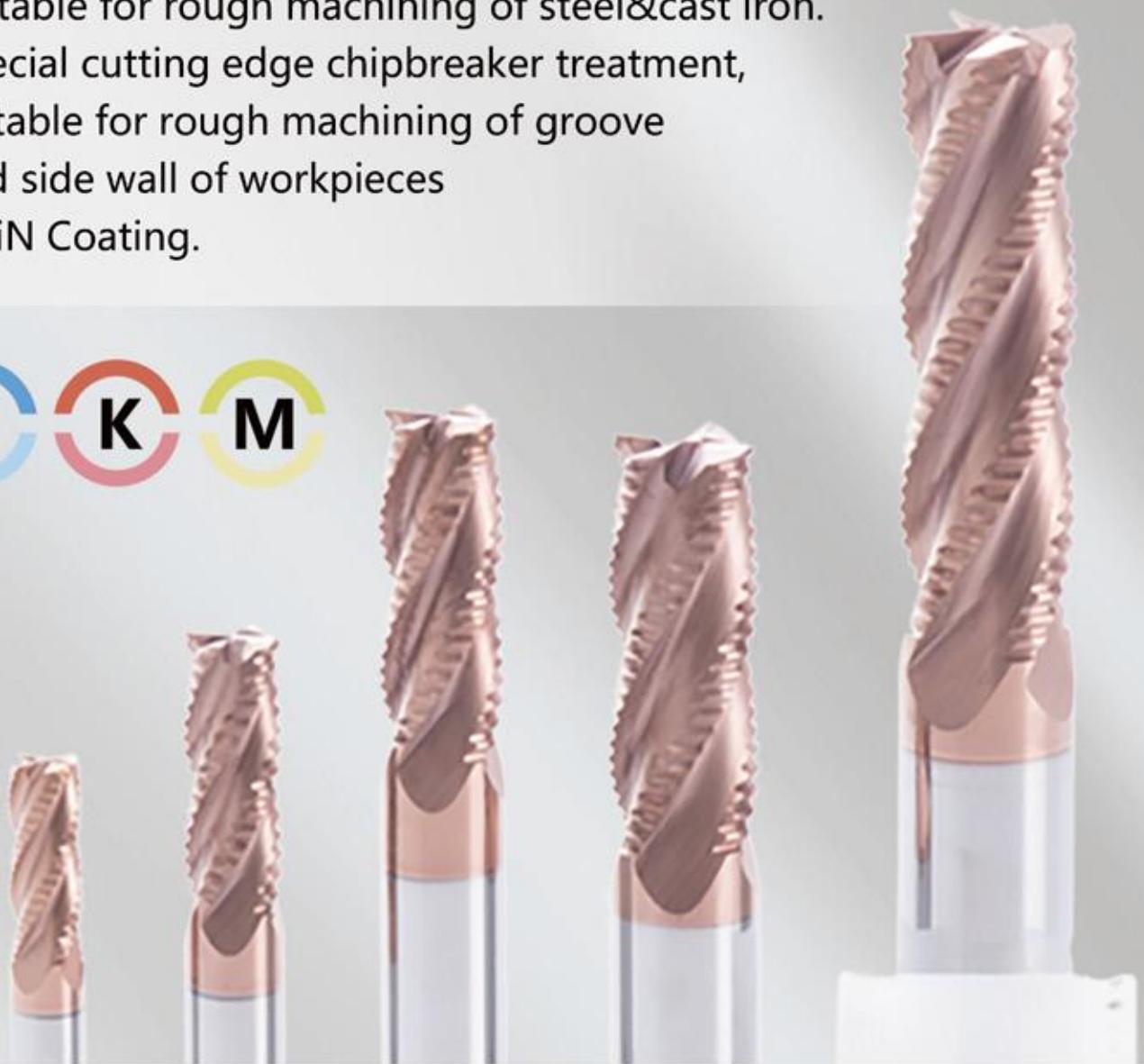
ISO	被加工材料 Workpiece Material	切削量 (mm) Depth of cut	Vc m/min		刃径 tool Diameter (mm)								
					1	2	4	6	8	10	12	16	20
N	锻造及铸造铝合金(SI<12%) Forging and casting aluminum alloy 铜合金(<200HB) Copper alloy	ap≤1.5D ap≤0.2D ap≤1.5D ap≤0.2D	150 (60~350)	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	16000 650	13000 850	12000 1200	10600 1530	10000 1670	9500 2050	9280 2800	7000 3000	5600 3150
					16000 720	13000 900	12000 1200	10600 1200	10000 1500	9500 1800	9280 2225	7000 2500	5600 3000

ISO	被加工材料 Workpiece Material	切削量 (mm) Depth of cut	Vc m/min		刃径 tool Diameter (mm)								
					1	2	4	6	8	10	12	16	20
N	锻造及铸造铝合金(SI<12%) Forging and casting aluminum alloy 铜合金(<200HB) Copper alloy	ap≤0.5D ap≤1D ap≤0.5D ap≤1D	150 (60~350)	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	16000 450	10000 570	9000 960	8000 1050	7800 1300	8000 1500	6800 1620	5000 1680	4000 1800
					16000 450	10000 520	9000 860	8000 830	7800 960	8000 1240	6800 1500	5000 1550	4000 1510

粗加工立铣刀系列

Endmills for roughing application series

- 适用于普通钢，铸铁材料的粗加工
- 特殊的刃口断屑槽处理，适用于工件的沟槽和侧壁粗加工
- 采用TiSiN涂层
- Suitable for rough machining of steel&cast iron.
- Special cutting edge chipbreaker treatment,
suitable for rough machining of groove
and side wall of workpieces
- TiSiN Coating.



刃口耐磨性和刀具刚性提升

Improved edge wear resistance and tool rigidity

全球合作伙伴-WORLDWIDE RELIABLE PARTNERS

多刃规格实现高效率，稳定加工，可应对钢，铸铁的粗加工
Multi-blade specification to achieve high efficiency, stable processing, can be corresponding to steel, cast iron rough processing.

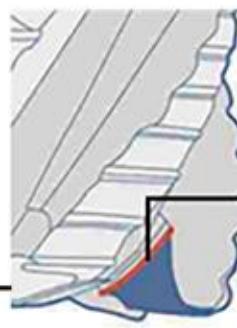
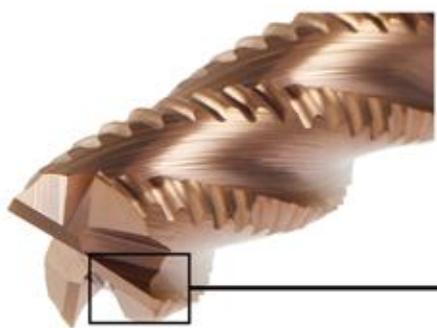
1 多刃规格实现高效率加工

Multi-blade specification to achieve high efficiency processing

多刃规格：独特的刃口形状提高排屑性能

Multi-edge specification: Unique edge shape improves chip evacuation performance

多刃规格 (Φ16-6枚刀) Multi-blade specification (Φ16-6T) 独特的刃口形状 Unique edge shape



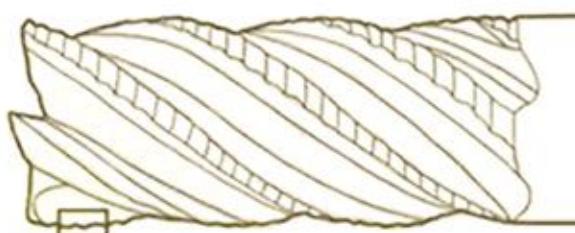
帮助向刃精排屑的螺旋刃口构造
Helical blade structure can help groove do chip removal

切屑排出性提高
Chip discharge is improved

2 耐崩损 Resistance to collapse

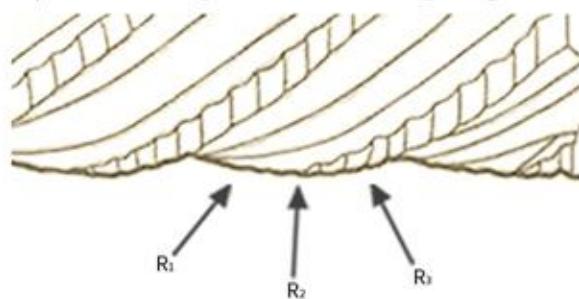
特殊R角波形切刃，应力集中，抑制崩损。实现稳定加工。

Special R-angle wave cutting edge, stress concentration, suppression of chipping, and achieve stable processing.



特殊R角波形切刃

Special R-angle wave cutting edge



不同的R角组合构成波形切刃（复合R角形状）

缓和应力集中，提高抗崩损性

Different R angles forms wavy cutting edges (composite R angle shape) to relieve concentration and improve the collapse resistance

加工12m后的刀尖状态
The tip state after procesng 12m

(本公司对比) (Comparison of our company)



● 良好 favorable

US



✗ 崩损 Collapse

其他公司产品B Other company products

切削参数 Cutting paramter: $n=2900\text{min}^{-1}$

$V_f=712\text{mm/min}$, $a_p*ae=5*3\text{mm}$

加工径 Processing diameter Φ10, Wet

台阶加工 Processing steps

被削材 By cutting material: Ti-6Al-4V

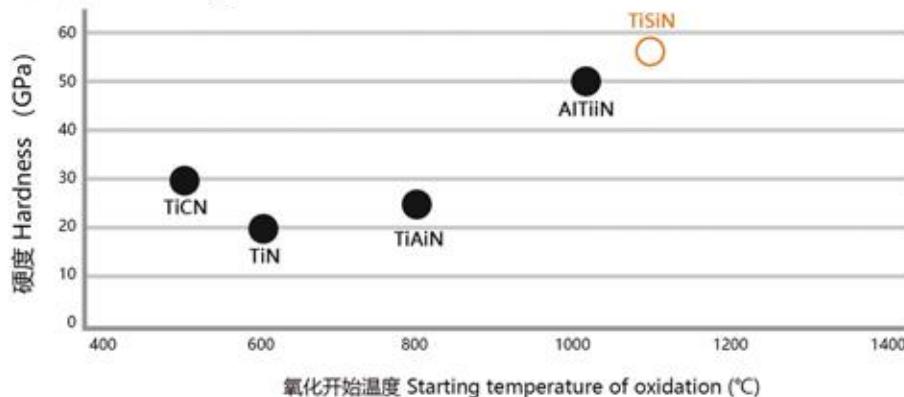
3 实现长寿命，稳定加工

Achieve long life,stable processiing

采用耐磨性、抗氧化性优异的(TiSiN)PVD涂层

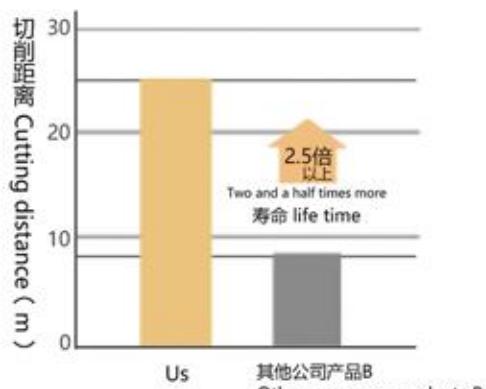
(TiSiN) PVD coating with excellent wear resistance and oxidation resistance

涂层特性 Coating Characteristics

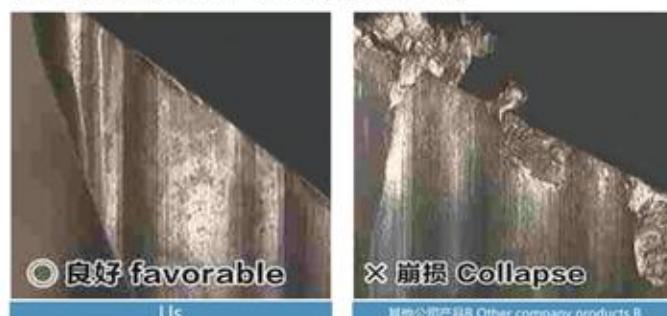


低 Low 抗氧化性 Oxidation resistance 高 High

寿命对比 compared with life
(本公司对比) (Comparison of our company)



加工8.4m后的刀尖状态
The tip state after 8.4m processing

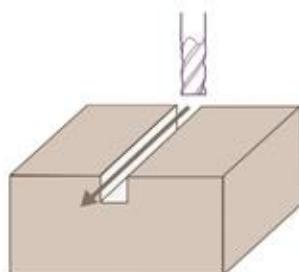


切削参数 Cutting paramter: n=3500min⁻¹, Vf=840mm/min, ap*ae=5*4mm
加工径 Processing diameter: Φ16, 台阶加工 Processing steps, Wet
被削材 By cutting material: SU304

加工实例 Processing Example

加测试件 Testware SUS304

n=1.800min⁻¹
(Vc=56m/min)
Vf=250 mm/min
(fz=0.027 mm/t)
apxae=3x10mm(切槽加工)
Grooving processing)
3走刀 3 Feed
Wet(内部给油Internal to the oil)



主轴负载
The spindle load

我们的产品
Our products

其他公司产品 C
Other company products C



该产品降低主轴负载10%切削音安静、设备振动减少、完成面良好
This product reduces spindle load by 10%. The cutting sound is quiet, the vibration of equipment is reduced, and the finished surface is good.

来自用户评价
(From user reviews)



钢, 铸铁 Steel, Cast iron

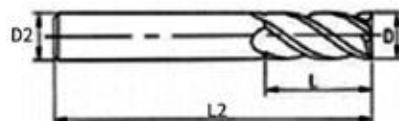
Rough End Mill (Standard)

CPD550 T15IN HRC 55 S



P	●
M	
K	●
N	
S	
H	

单位 Unit	(mm)		
	D	D≤12	D>12
公差 Tol	0	0	-0.015 -0.02



Diameter D mm	Cutting Length L mm	Shank D2 mm	Overall Length L2 mm
4	12	4	50
5	13	5	50
5	13	6	50
6	15	6	50
8	20	8	60
10	25	10	75
12	30	12	75
14	45	14	100
16	45	16	100
18	45	18	100
20	45	20	100

Ordering Code

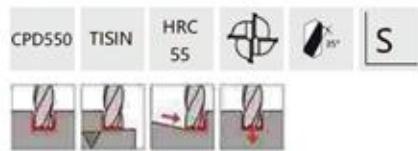
CPD550-4F-04120450
 CPD550-4F-05130550
 CPD550-4F-05130650
 CPD550-4F-06150650
 CPD550-4F-08200860
 CPD550-4F-10251075
 CPD550-4F-12301275
 CPD550-4F-144514100
 CPD550-4F-164516100
 CPD550-4F-184518100
 CPD550-4F-204520100

ISO	被加工材料 Workpiece Material	切削量 (mm) Depth of cut	Vc m/min		刃座 Tool Diameter (mm)					
					6	8	10	12	16	20
P	碳钢合金 (<45HRC) Carbon steel alloy steel 合金钢 (50HRC) Alloy Steel	ap≤1D	80	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	4250 760	3190 700	2550 660	2120 640	1590 640	1270 710
		ap≤0.5D	60	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	3190 380	2390 380	1910 380	1590 380	1190 330	960 310
K	灰铸铁, 球墨铸铁 (<32HRC) Grey cast iron, nodular cast iron 高合金铸铁 (35-45HRC) High alloy cast iron	ap≤1D	55	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	2920 370	2190 370	1750 360	1460 350	1100 310	880 280
		ap≤0.8D	55	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	2920 350	2190 350	1750 350	1460 320	1133 290	880 260

上表是倒铣加工的标准值，刀具切槽时，转速要以上表格的50%~70%，进给速度要以40%~60%为标准值。

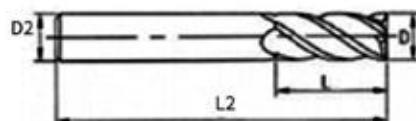
Above table is the standard cutting data for side milling machining, if for groove cutting , the VC should reach 50%~70% and the feed should reach 40%~60% based on the table.

Rough End Mill (Extra Long)



P	●
M	
K	●
N	
S	
H	

单位 Unit	(mm)		
	D	D≤12	D>12
公差 Tol	0	0	-0.015
			-0.02



Diameter D mm	Cutting Length L mm	Shank D2 mm	Overall Length L2 mm
6	24	6	75
8	25	8	75
6	30	6	100
8	35	8	100
10	40	10	100
12	45	12	100
16	70	16	150
20	70	20	150

Ordering Code

CPD550-4F-06240675
 CPD550-4F-08250875
 CPD550-4F-063006100
 CPD550-4F-083508100
 CPD550-4F-104010100
 CPD550-4F-124512100
 CPD550-4F-167016150
 CPD550-4F-207020150

ISO	被加工材料 Workpiece Material	切削量 (mm) Depth of cut	Vc m/min		刃径 Tool Diameter (mm)					
					6	8	10	12	16	20
P	碳钢合金 (<45HRC) Carbon steel alloy steel 合金钢 (50HRC) Alloy Steel	ap≤1D	80	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	4250 760	3190 700	2550 660	2120 640	1590 640	1270 710
		ap≤0.5D	60	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	3190 380	2390 380	1910 380	1590 380	1190 330	960 310
K	灰铸铁, 球墨铸铁 (<32HRC) Gry cast iron, nodular cast iron 高合金铸铁 (35-45HRC) High alloy cast iron	ap≤1D	55	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	2920 370	2190 370	1750 360	1460 350	1100 310	880 280
		ap≤0.8D	55	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	2920 350	2190 350	1750 350	1460 320	1133 290	880 260

上表是侧铣加工的标准值，刀具切槽时，转速要以上表格的50%~70%，进给速度要以40%~60%为标准值。

Above table is the standard cutting data for side milling machining, if for groove cutting , the VC should reach 50%~70% and the feed should reach 40%~60% based on the table.



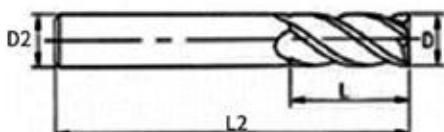
Rough End Mill (Standard)

LYCPD AL HRC 55 S



P	
M	
K	
N	●
S	
H	

单位 Unit	(mm)	
	D	D≤12 D>12
公差 Tol	0	0
	-0.015	-0.02



Diameter D mm	Cutting Length L mm	Shank D2 mm	Overall Length L2 mm
4	12	4	50
5	15	5	50
5	15	6	50
6	18	6	50
8	24	8	60
10	30	10	75
12	35	12	75
14	45	14	100
16	45	16	100
18	45	18	100
20	45	20	100

Ordering Code

LYCPD-3F-04120450
LYCPD-3F-05150550
LYCPD-3F-05150650
LYCPD-3F-06180650
LYCPD-3F-08240860
LYCPD-3F-10301075
LYCPD-3F-12351275
LYCPD-3F-144514100
LYCPD-3F-164516100
LYCPD-3F-184518100
LYCPD-3F-204520100

Rough End Mill (Extra Long)

Diameter D mm	Cutting Length L mm	Shank D2 mm	Overall Length L2 mm
6	24	6	75
8	25	8	75
6	30	6	100
8	35	8	100
10	40	10	100
12	45	12	100
14	70	14	150
16	70	16	150
20	70	20	150

Ordering Code

LYCPD-3F-06240675
LYCPD-3F-08250875
LYCPD-3F-063006100
LYCPD-3F-083508100
LYCPD-3F-104010100
LYCPD-3F-124512100
LYCPD-3F-147014100
LYCPD-3F-167016150
LYCPD-3F-207020150

ISO	被加工材料 Workpiece Material	切削量 (mm) Depth of cut	Vc m/min	刃径 tool Diameter (mm)									
				1	2	4	6	8	10	12	16	20	
N	锻造及铸造铝合金(SI<12%) Forging and casting aluminum alloy 铝合金<200Hb) Copper alloy	ap≤1.5D ap≤0.2D	150 (60~350)	转速 rate speed (min-1) 进给率 feed velocity (mm/min)	16000 650	13000 850	12000 1430	10600 1530	10000 1670	9500 2050	9280 2800	7000 3000	5600 3150
		ap≤1.5D ap≤0.2D	150 (60~350)	转速 rate speed (min-1) 进给率 feed velocity (mm/min)	16000 720	13000 900	12000 1200	10600 1200	10000 1500	9500 1800	9280 2225	7000 2500	5600 3000

P K M

微小径系列

SUITABLE FOR MICRO DIAMETER POCKET MILLING SERIES

- 适用于各种钢件，铸铁的深槽加工
- 采用高性能TiSiN涂层，耐高温，耐磨损
- 长颈避免深腔加工干涉，适用于模具肋槽的深腔加工
- Suitable for deep groove processing various steel and cast iron.
- High-performance TiSiN coating for high temperature and wear resistance.
- Long neck design avoids collision with workpiece, Suitable for deep pocket milling of mold rib.

TiSiN
耐高温，耐磨损
TiSiN coating
High temperature
and wear
resistance



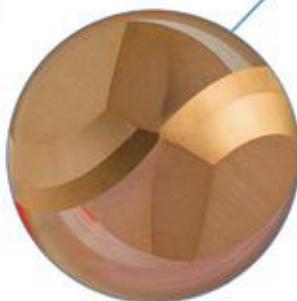
精细研磨，尺寸精准
Fine grinding, high precise sizes

全球合作伙伴-WORLDWIDE RELIABLE PARTNERS

模具肋槽的深腔加工; 精细研磨, 尺寸精准
 Suitable for deep pocket milling of mold rib areas;
 Fine grinding, High precise sizes.

切边刀刃形状 Cutting edge shape

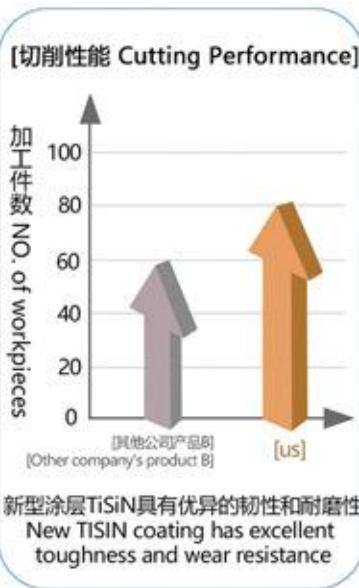
- 刀口精准钝化, 提高刀具使用寿命
- 可抑制加工表面的不均匀性, 确保优异的光洁度
- Accurate passivation of cutting edge, improve tool life.
- Can Suppresses the unevenness of the surface and ensures perfect finish.



球头端齿 The ball head end teeth

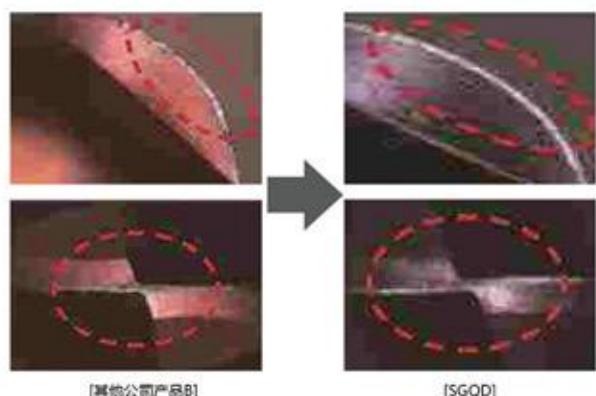
- 刀具刃型优化, 精细研磨, 尺寸精准
- 球点形状的切削提供优良的耐磨性和切削性能
- Cutting edge optimization, fine grinding, precise size.
- Cutting edge of the ball point shape provide excellent wear resistance and cutting performance.

➤➤➤➤➤ 加工案例-对比 Processing Case-Comparison



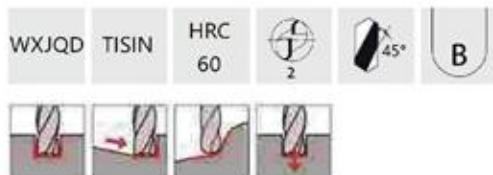
磨损对比图 Picture of abrasion comparison

- 工件 Workpiece Co-Cr
- 切削条件 Cutting conditions $v_c(m/min)=150$
 $f_z(mm/t)=0.08$
 $a_p(mm)=0.13$
 $a_e(mm)=0.7$
 wet
- 刀具 Tool SGQD



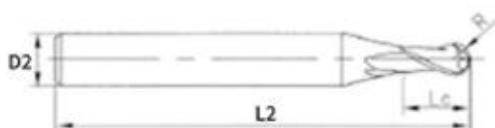


Micro Diameter Ball Nose End Mill (Standard)



单位 Unit	(mm)
R	R
公差 ToI	±0.015

P	●
M	
K	●
N	●
S	
H	



Diameter D mm	Radius R mm	Shank D2 mm	Overall Length L2 mm
0.3	0.15	4	50
0.4	0.2	4	50
0.5	0.25	4	50
0.7	0.35	4	50
0.8	0.4	4	50
0.9	0.45	4	50

Ordering Code

WXJQD-2F-0030060450
WXJQD-2F-0040080450
WXJQD-2F-005010450
WXJQD-2F-0070140450
WXJQD-2F-0080160450
WXJQD-2F-0090180450

ISO	被加工材料 Workpiece Material	切削量 (mm) Depth of cut	Vc m/min		刃径 Tool Diameter (mm)					
					0.6	0.8	1.0	1.2	1.6	2.0
P	碳钢合金 (<45HRC) Carbon steel alloy steel 合金钢 (50HRC) Alloy Steel	ap≤0.02D	80	转速 rate speed (min⁻¹) 进给转速 feed velocity (mm/min)	42460 1400	15920 1960	25480 1430	21230 1490	6370 1620	12740 1400
		ap≤0.02D	70	转速 rate speed (min⁻¹) 进给转速 feed velocity (mm/min)	37150 1190	10350 1180	22290 1160	5970 1160	4780 1050	11150 1160
		ap≤0.01D	80	转速 rate speed (min⁻¹) 进给转速 feed velocity (mm/min)	42460 1440	31850 1460	25480 1430	17520 2630	11680 2570	12740 1400
		ap≤0.01D	70	转速 rate speed (min⁻¹) 进给转速 feed velocity (mm/min)	37150 1190	27870 1170	22290 1160	17520 2450	11680 2450	11150 1160
K	灰铸钢, 球墨铸铁 (<32HRC) Grey cast iron, nodular cast iron 高合金铸铁 (35-45HRC) High alloy cast iron	ap≤0.02D	80	转速 rate speed (min⁻¹) 进给转速 feed velocity (mm/min)	42460 1440	31850 1460	25480 1430	17520 2630	11680 2570	12740 1400
		ap≤0.02D	70	转速 rate speed (min⁻¹) 进给转速 feed velocity (mm/min)	37150 1190	27870 1170	22290 1160	17520 2450	11680 2450	11150 1160

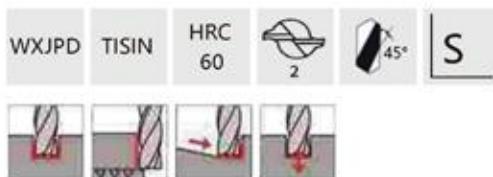
上表是侧铣加工的标准值，刀具切槽时，转速要以上表的50%~70%，进给速度要以40%~60%为标准值。

Above table is the standard cutting data for side milling machining, if for groove cutting the Vc should reach 50%-70% and the feed should reach 40%-60% based on the table.

ISO	被加工材料 Workpiece Material	切削量 (mm) Depth of cut	Vc m/min		刃径 tool Diameter (mm)							
					1	2	4	6	8	10	12	16
N	锻造及铸造铝合金(SI<12%) Forging and casting aluminum alloy 铜合金(<200HB) Copper alloy	ap≤0.5D	150	转速 rate speed (min⁻¹) 进给转速 feed velocity (mm/min)	19000 950	15900 1600	11900 1900	10600 2500	8000 2250	7950 3800	7950 3800	7000 4450
		ap≤1D	(60~350)	转速 rate speed (min⁻¹) 进给转速 feed velocity (mm/min)	19000 860	15900 1430	11900 1720	10600 2300	8000 2300	7950 2850	7950 3450	7000 4010
		ap≤0.5D	150	转速 rate speed (min⁻¹) 进给转速 feed velocity (mm/min)	19000 860	15900 1430	11900 1720	10600 2300	8000 2300	7950 2850	7950 3450	7000 4010
		ap≤1D	(60~350)	转速 rate speed (min⁻¹) 进给转速 feed velocity (mm/min)	19000 860	15900 1430	11900 1720	10600 2300	8000 2300	7950 2850	7950 3450	7000 4010

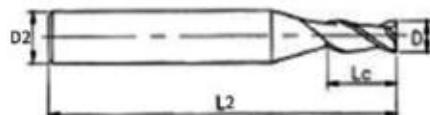


Micro Diameter Square End Mill (Standard)



单位 Unit	(mm)
D	D
公差 Tol	0
	-0.015

P	●
M	
K	●
N	●
S	
H	



Diameter D mm	Cutting Length L mm	Shank D2 mm	Overall Length L2 mm
0.2	0.4	4	50
0.3	0.6	4	50
0.4	0.8	4	50
0.5	1	4	50
0.6	1.2	4	50
0.7	1.4	4	50
0.8	1.6	4	50
0.9	1.8	4	50

Ordering Code

WXJPD-2F-0020040450
WXJPD-2F-0030060450
WXJPD-2F-0040080450
WXJPD-2F-005010450
WXJPD-2F-0060120450
WXJPD-2F-00740140450
WXJPD-2F-0080160450
WXJPD-2F-0090180450

ISO	被加工材料 Workpiece Material	切削量 (mm) Depth of cut	Vc m/min	刃径 Tool Diameter (mm)								
				0.8	0.9	1.0	1.2	1.4	1.6	1.8	2.0	
P	碳钢合金 (<45HRC) Carbon steel alloy steel	ap≤0.5D ap≤0.05D	90	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	35830 1150	31850 1150	28600 1150	23890 1100	20470 1110	17910 1070	15920 1110	5840 2800
	合金钢 (50HRC) Alloy Steel	ap≤0.5D ap≤0.05D	70	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	27870 840	24770 840	22290 850	18580 820	15920 800	13930 780	12380 820	4780 2000
K	灰铸铁, 球墨铸铁 (<32HRC) Grey cast iron, nodular cast iron	ap≤0.5D ap≤0.05D	90	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	35830 1150	31850 1150	28660 1150	23890 1100	20470 1100	17910 1070	15920 1110	5840 2530
	高合金铸铁 (35-45HRC) High alloy cast iron	ap≤0.5D ap≤0.05D	80	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	31850 830	28310 850	25480 820	21230 760	18200 800	15920 860	14150 910	5840 2440

上表是侧铣加工的标准值，刀具切槽时，转速要以上表的50%-70%，进给速度要以40%-60%为标准值。

Above table is the standard cutting data for side milling machining, if for groove cutting the VC should reach 50%-70% and the feed should reach 40%-60% based on the table.

ISO	被加工材料 Workpiece Material	切削量 (mm) Depth of cut	Vc m/min	刃径 tool Diameter (mm)								
				1	2	4	6	8	10	12	16	
N	锻造及铸造铝合金(SI<12%) Forging and casting aluminum alloy	ap≤1.5D ap≤0.2D (60~350)	150	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	16000 580	12700 710	12000 1200	10600 1280	10000 1390	9500 1720	9280 2400	7000 2500
	铜合金(<200HB) Copper alloy	ap≤1.5D ap≤0.2D (60~350)	150	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	16000 520	12700 650	12000 1070	10600 1150	10000 1250	9500 1550	9280 2170	7000 2250



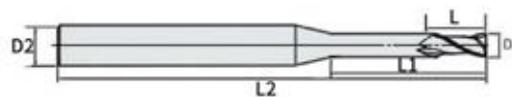
Long Neck Square End Mill (Standard)

SGPD TISIN HRC 55 2/4 35° S



P	●
M	
K	●
N	●
S	
H	

单位 Unit	(mm)	
	D	D≤12 D>12
公差 Tol	0	0
	-0.015	-0.02



Diameter D mm	Cutting Length L mm	Shank D2 mm	Effective cutting Length L1 mm	Overall Length L2 mm
0.3	0.6	4	2/3	50
0.4	0.8	4	3/4/5/6	50
0.5	1	4	2/3/4/6/8	50
0.6	1.2	4	2/3/4/6/8	50
0.7	1.4	4	3/4/6/8/10	50
0.8	1.6	4	3/4/6/8/10	50
0.9	1.8	4	3/4/6/8/10	50
1	3	4	6/8/10/12/16/20	50
1.5	4.5	4	6/8/10/12/16/20	50
2	6	4	8/10/12/16/20	50
2.5	8	4	10/12/16/20	50
3	9	4	12/16/20	50

Ordering Code

SGPD-2F-00302040250
SGPD-2F-00402040350
SGPD-2F-00502040250
SGPD-2F-00602040250
SGPD-2F-00703040350
SGPD-2F-00803040350
SGPD-2F-00903040350
SGPD-4F-0103040650
SGPD-4F-01506040650
SGPD-4F-0206040850
SGPD-4F-025080410450
SGPD-4F-0309041250

ISO	被加工材料 Workpiece Material	切削量 (mm) Depth of cut	Vc m/min	刃径 Tool Diameter (mm)								
				0.8	0.9	1.0	1.2	1.4	1.6	1.8	2.0	
P	碳钢合金 (<45HRC) Carbon steel alloy steel 合金钢 (50HRC) Alloy Steel	ap≤0.5D ap≤0.05D ap≤0.5D ap≤0.05D	90 70	转速 rate speed (min-1) 进给转速 feed velocity (mm/min) 转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	19900 400 15920 250	31850 1150 24770 840	28660 1150 22290 850	23890 370 18580 250	13270 400 10620 290	9950 410 7960 300	8850 400 7080 290	7960 400 6370 290
K	灰铸铁, 球墨铸铁 (>32HRC) Gry cast iron, nodular cast iron 高合金铸铁 (35-45HRC) High alloy cast iron	ap≤0.5D ap≤0.05D ap≤0.5D ap≤0.05D	90 80	转速 rate speed (min-1) 进给转速 feed velocity (mm/min) 转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	15920 320 11940 210	31850 1150 28310 850	28660 1150 25480 820	23890 300 21230 760	10620 310 7960 210	9100 320 6800 220	7960 320 5970 230	6370 320 4780 230

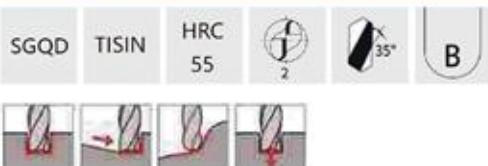
上表是侧铣加工的标准值，刀具切槽时，转速要以上表的50%~70%，进给速度要以40%~60%为标准值。

Above table is the standard cutting data for side milling machining. If for groove cutting the VC should reach 50%~70% and the feed should reach 40%~60% based on the table.

ISO	被加工材料 Workpiece Material	切削量 (mm) Depth of cut	Vc m/min	刃径 tool Diameter (mm)								
				1	2	4	6	8	10	12	16	20
N	锻造及铸造铝合金(Si<12%) Forging and casting aluminum alloy 铜合金(<200HB) Copper alloy	ap≤1.5D ap≤0.2D ap≤1.5D ap≤0.2D	150 (60~350) 150 (60~350)	转速 rate speed (min-1) 进给转速 feed velocity (mm/min) 转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	16000 580 16000 520	12700 710 12700 650	12000 1200 10600 1070	10600 1150 10000 1150	10000 1390 9500 1250	9500 1720 9280 1550	9280 2400 7000 2170	7000 2500 5600 2250

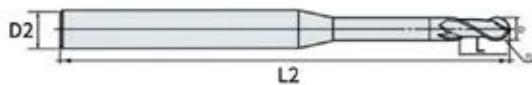


Long Neck Ball Nose End Mill (Standard)



单位 Unit	(mm)
R	R
公差 Tol	±0.015

P	●
M	
K	●
N	●
S	
H	



Radius R	Shank D2	Cutting Length L	Effective cutting Length L1	Overall Length L2
mm	mm	mm	mm	mm
0.15	4	0.6	2/3/4	50
0.2	4	0.8	2/3/4/5/6	50
0.25	4	1	2/3/4/6/8	50
0.3	4	1.2	2/3/4/6/8	50
0.35	4	1.4	3/4/6/8/10	50
0.4	4	1.6	3/4/6/8/10	50
0.5	4	2	6/8/10/12/16/20	50
0.75	4	3	6/8/10/12/16/20	50
1	4	4	6/8/10/12/16/20	50

Ordering Code

SGQD-2F-001504020250
SGOD-2F-0020404020250
SGOD-2F-00250404020250
SGQD-2F-0030404020250
SGQD-2F-003504030350
SGOD-2F-0040404030350
SGQD-2F-00504060650
SGQD-2F-007504060650
SGQD-4F-0104060650

ISO	被加工材料 Workpiece Material	切削量 (mm) Depth of cut	Vc m/min		刃径 Tool Diameter (mm)					
					0.6	0.8	1.0	1.2	1.6	2.0
P	碳钢合金 (<45HRC) Carbon steel alloy steel	ap≤0.02D	80	转速 rate speed (min-1)	42460	15920	25480	21230	6370	12740
		ap≤0.02D		进给转速 feed velocity (mm/min)	1400	1960	1430	1490	1620	1400
		ap≤0.01D	70	转速 rate speed (min-1)	37150	10350	22290	5970	4780	11150
		ap≤0.01D		进给转速 feed velocity (mm/min)	1190	1180	1160	1160	1050	1160
K	灰铸铁, 球墨铸铁 (<32HRC) Grey cast iron, nodular cast iron	ap≤0.02D	80	转速 rate speed (min-1)	42460	31850	25480	17520	11680	12740
		ap≤0.02D		进给转速 feed velocity (mm/min)	1440	1460	1430	2630	2570	1400
		ap≤0.02D	70	转速 rate speed (min-1)	37150	27870	22290	17520	11680	11150
		ap≤0.02D		进给转速 feed velocity (mm/min)	1190	1170	1160	2450	2450	1160

上表是侧铣加工的标准值，刀具切槽时，转速要以上表的50%~70%，进给速度要以40%~60%为标准值。

Above table is the standard cutting data for side milling machining, if for groove cutting the VC should reach 50%-70% and the feed should reach 40%-60% based on the table.

ISO	被加工材料 Workpiece Material	切削量 (mm) Depth of cut	Vc m/min		刃径 tool Diameter (mm)							
					1	2	4	6	8	10	12	16
N	锻造及铸造铝合金(SI<12%) Forging and casting aluminum alloy	ap≤0.5D	150	转速 rate speed (min-1)	19000	15900	11900	10600	8000	7950	7950	7000
		ap≤1D	(60~350)	进给转速 feed velocity (mm/min)	950	1600	1900	2500	2250	3800	3800	4450
		ap≤0.5D	150	转速 rate speed (min-1)	19000	15900	11900	10600	8000	7950	7950	7000
		ap≤1D	(60~350)	进给转速 feed velocity (mm/min)	860	1430	1720	2300	2300	2850	3450	4010

倒角铣削 CHAMFER CUTTERS

数控硬质合金倒角铣削
CNC Carbide Chamfering Milling

- 非常适合在小而窄的区域和平面上进行倒角和去毛刺
- 针对较大特征的轮廓和倒角进行了优化
- 端部切割，非常适合一次性混合地板和倒角墙
- Ideal for chamfering and deburring small, narrow areas and flat surfaces.
- Optimized for contours and chamfers on larger features.
- End cut, ideal for mixing floors and chamfering walls in one go.



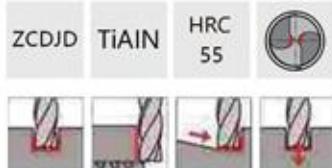
特殊的刃口设计，有效解决刀具刃口沾屑问题
Special edge design, effectively solve the problem of sticky

全球合作伙伴-WORLDWIDE RELIABLE PARTNERS



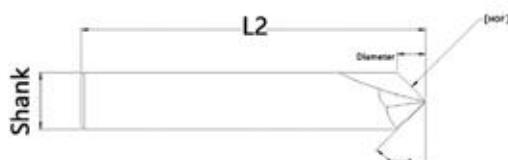
钢, 铸铁 Steel, Cast iron

Chamfer End Mill (Standard)



P	●
M	
K	●
N	
S	
H	

单位 Unit	(mm)
D	D
公差 Tol	0
	-0.015



Diameter D mm	Angle	Shank D2 mm	Overall Length L2 mm
2	60°	4	50
2	120°	4	50
3	120°	3	50
3	60°	4	50
3	120°	4	50
3	90°	3	50
4	90°	4	50
5	90°	5	50
6	90°	6	50
8	90°	8	60
10	90°	10	75
10	90°	10	75
4	60°	4	50
4	120°	4	50
4	120°	4	50
6	60°	6	50
6	60°	6	50
10	60°	10	75

Ordering Code
ZCDJD-02600450
ZCDJD-021200450
ZCDJD-031200350
ZCDJD-03600450
ZCDJD-031200450
ZCDJD-03900350
ZCDJD-04900450
ZCDJD-05900550
ZCDJD-06900650
ZCDJD-08900860
ZCDJD-10901075
ZCDJD-10901075
ZCDJD-04600450
ZCDJD-041200450
ZCDJD-041200450
ZCDJD-06600650
ZCDJD-06600650
ZCDJD-10601075

ISO	被加工材料 Workpiece Material	切削量 (mm) Depth of cut	Vc m/min		刃径 Tool Diameter (mm)							
					0.8	0.9	1.0	1.2	1.4	1.6	1.8	2.0
P	碳钢合金 (<45HRC) Carbon steel alloy steel	ap≤0.5D ap≤0.05D	90	转速 rate speed (min ⁻¹) 进给转速 feed velocity (mm/min)	35830 1150	31850 1150	28600 1150	23890 1100	20470 1110	17910 1070	15920 1110	5840 2800
	合金钢 (50HRC) Alloy Steel	ap≤0.5D ap≤0.05D		转速 rate speed (min ⁻¹) 进给转速 feed velocity (mm/min)	27870 840	24770 840	22290 850	18580 820	15920 800	13930 780	12380 820	4780 2000
K	灰铸铁, 球墨铸铁 (<32HRC) Grey cast iron, nodular cast iron	ap≤0.5D ap≤0.05D	90	转速 rate speed (min ⁻¹) 进给转速 feed velocity (mm/min)	35830 1150	31850 1150	28660 1150	23890 1100	20470 1100	17910 1070	15920 1110	5840 2530
	高合金铸铁 (35~45HRC) High alloy cast iron	ap≤0.5D ap≤0.05D		转速 rate speed (min ⁻¹) 进给转速 feed velocity (mm/min)	31850 830	28310 850	25480 820	21230 760	18200 800	15920 860	14150 910	5840 2440

上表是侧铣加工的标准值，刀具切槽时。转速要以上表的50%~70%，进给速度要以40%~60%为标准值。

Above table is the standard cutting data for side milling machining, if for groove cutting the VC should reach 50%-70% and the feed should reach 40%-60% based on the table.



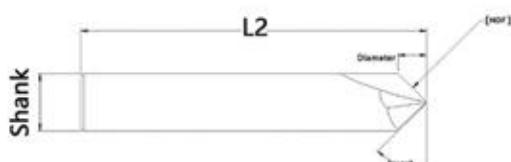
Chamfer End Mill (Standard)

DJD TiASiN HRC 65



P	●
M	●
K	●
N	
S	
H	●

单位 Unit	(mm)
D	D
公差 Tol	0
	-0.015



Diameter D mm	Angle	Shank D2 mm	Overall Length L2 mm
3	90°	3	50
3	90°	4	50
4	90°	4	50
5	90°	5	50
6	90°	6	50
8	90°	8	60
10	90°	10	75
12	90°	12	75

Ordering Code

DJD-03900350
DJD-03900450
DJD-04900450
DJD-05900550
DJD-06900650
DJD-08900875
DJD-10901275
DJD-12901275

ISO	被加工材料 Workpiece Material	切削量 (mm) Depth of cut	Vc m/min	
H	合金钢、淬硬钢(<60HRC) Alloy steel, hardened steel	ap≤1D ap≤0.05D	120	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)
	合金钢、淬硬钢(65HRC) Alloy steel, hardened steel	ap≤0.7D ap≤0.03D	90	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)

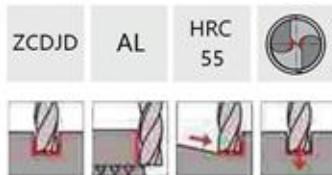
刃径 Tool Diameter (mm)						
2	4	6	8	10	12	
19110 380	9550 380	6370 380	7170 930	4780 380	3490 360	
15920 260	11940 360	7960 370	5180 620	4780 370	3980 340	

上表是侧铣加工的标准值，刀具切槽时，转速要以上表格的50%~70%，进给速度要以40%~60%为标准值。

Above table is the standard cutting data for side milling machining, if for groove cutting , the VC should reach 50%~70% and the feed should reach 40%~60% based on the table.

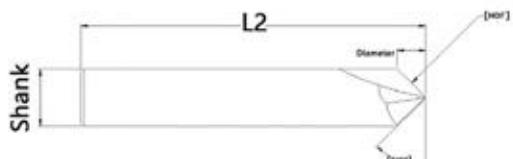


Chamfer End Mill (Standard)



P	
M	
K	
N	●
S	
H	

单位 Unit	(mm)
D	D
公差 Tol	0
	-0.015



Diameter D mm	Angle	Shank D2 mm	Overall Length L2 mm
2	60°	4	50
2	60°	4	50
3	60°	3	50
3	120°	3	50
3	60°	4	50
3	120°	4	50
3	90°	3	50
3	90°	4	50
4	90°	4	50
5	90°	5	50
6	90°	6	50
8	90°	8	60
10	90°	10	75
12	90°	12	75

Ordering Code

ZCDJD-YL-02600450
ZCDJD-YL-02600450
ZCDJD-YL-03600350
ZCDJD-YL-031200350
ZCDJD-YL-03600450
ZCDJD-YL-031200450
ZCDJD-YL-03900350
ZCDJD-YL-03900450
ZCDJD-YL-04900450
ZCDJD-YL-05900550
ZCDJD-YL-06900650
ZCDJD-YL-08900860
ZCDJD-YL-10901075
ZCDJD-YL-12901275

ISO	被加工材料 Workpiece Material	切削量 (mm) Depth of cut	Vc m/min	
N	锻造及铸造铝合金(Si<12%) Forging and casting aluminum alloy 铜合金(<200HB) Copper alloy	ap≤1.5D ap≤0.2D ap≤1.5D ap≤0.2D	150 (60~350) 150 (60~350)	转速 rate speed (min-1) 进给转速 feed velocity (mm/min) 转速 rate speed (min-1) 进给转速 feed velocity (mm/min)

刃径 tool Diameter (mm)									
1	2	4	6	8	10	12	16	20	
16000 580	12700 710	12000 1200	10600 1280	10000 1390	9500 1720	9280 2400	7000 2500	5600 2450	
16000 520	12700 650	12000 1070	10600 1150	10000 1250	9500 1550	9280 2170	7000 2250	5600 2200	

ISO	被加工材料 Workpiece Material	切削量 (mm) Depth of cut	Vc m/min	
N	锻造及铸造铝合金(Si<12%) Forging and casting aluminum alloy 铜合金(<200HB) Copper alloy	ap≤0.5D ap≤1D ap≤0.5D ap≤1D	150 (60~350) 150 (60~350)	转速 rate speed (min-1) 进给转速 feed velocity (mm/min) 转速 rate speed (min-1) 进给转速 feed velocity (mm/min)

刃径 tool Diameter (mm)									
1	2	4	6	8	10	12	16	20	
16000 400	10000 500	9000 810	8000 920	7800 1100	8000 1280	6800 1300	5000 1310	4000 1200	
16000 380	10000 450	9000 800	8000 830	7800 1000	8000 1150	6800 1130	5000 1000	4000 1080	

定心钻

硬质合金定心钻

Carbide Center Drill



- 具有高锋利性和出色耐用性的定心钻
- 钻高速钢的使用提高了跳动精度
- 优化的刀具形状可提供出色的锋利度并有助于防止磨损。
- The center drill with high sharpness and outstanding durability
- The use of cobalt HSS improving runout accuracy
- The optimized tool shape deliver excellent sharpness and help prevent breakages.

刃口耐磨性和刀具刚性提升

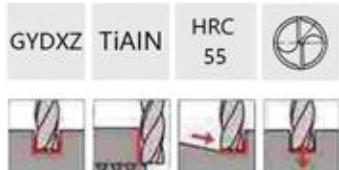
Improved edge wear resistance and tool rigidity

全球合作伙伴-WORLDWIDE RELIABLE PARTNERS



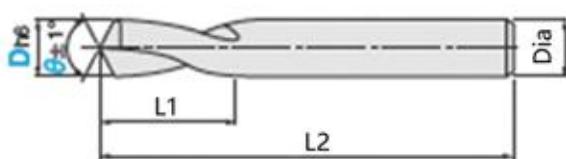
钢, 铸铁 Steel, Cast iron

Center Drill (Standard)



单位 Unit	(mm)
D	D
公差 Tol	0
	-0.015

P	●
M	
K	●
N	
S	
H	



Diameter D mm	Angle	Shank D2 mm	Overall Length L2 mm
1	90°	4	50
2.5	90°	4	50
3	90°	3	50
3	90°	4	50
4	90°	4	50
5	90°	5	50
6	90°	6	50
8	90°	8	60
10	90°	10	75
12	90°	12	75
4	90°	4	100
6	90°	6	100
8	90°	8	100
10	90°	10	100
12	90°	12	100
16	90°	16	100

Ordering Code

GYDXZ-2F-01900450
GYDXZ-2F-025900450
GYDXZ-2F-03900350
GYDXZ-2F-03900450
GYDXZ-2F-04900450
GYDXZ-2F-05900550
GYDXZ-2F-06900650
GYDXZ-2F-08900860
GYDXZ-2F-10901075
GYDXZ-2F-12901275
GYDXZ-2F-049004100
GYDXZ-2F-069006100
GYDXZ-2F-089008100
GYDXZ-2F-109010100
GYDXZ-2F-129012100
GYDXZ-2F-169016100

ISO	被加工材料 Workpiece Material	切削量 (mm) Depth of cut	Vc m/min	
P	碳钢合金 (<45HRC) Carbon steel alloy steel 合金钢 (50HRC) Alloy Steel	ap≤0.5D ap≤0.05D	90	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)
K	灰铸铁, 球墨铸铁 (<32HRC) Grey cast iron, nodular cast iron 高合金铸铁 (35-45HRC) High alloy cast iron	ap≤0.5D ap≤0.05D ap≤0.5D ap≤0.05D	90 80	转速 rate speed (min-1) 进给转速 feed velocity (mm/min) 转速 rate speed (min-1) 进给转速 feed velocity (mm/min)

刃径 Tool Diameter (mm)								
0.8	0.9	1.0	1.2	1.4	1.6	1.8	2.0	
35830 1150	31850 1150	28600 1150	23890 1100	20470 1110	17910 1070	15920 1110	5840 2800	
27870 840	24770 840	22290 850	18580 820	15920 800	13930 780	12380 820	4780 2000	
35830 1150	31850 1150	28660 1150	23890 1100	20470 1100	17910 1070	15920 1110	5840 2530	
31850 830	28310 850	25480 820	21230 760	18200 800	15920 860	14150 910	5840 2440	

上表是侧铣加工的标准值，刀具切槽时，转速要以上表的50%~70%，进给速度要以40%~60%为标准值。

Above table is the standard cutting data for side milling machining, if for groove cutting the VC should reach 50%-70% and the feed should reach 40%-60% based on the table.



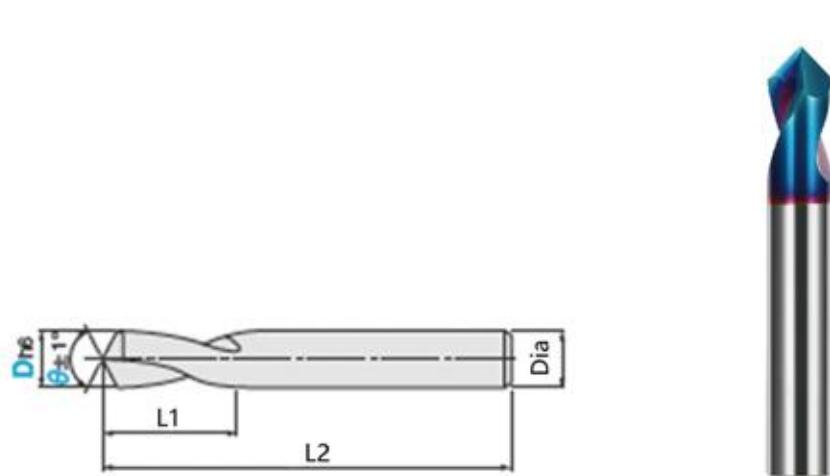
Center Drill (Standard)

DXZ TiAlSiN HRC 65



单位 Unit	(mm)
D	D
公差 Tol	0
	-0.015

P	●
M	●
K	●
N	
S	
H	●



Diameter D mm	Angle	Shank D2 mm	Overall Length L2 mm
1	90°	4	50
2	90°	4	50
3	90°	4	50
4	90°	4	50
5	90°	5	50
6	90°	6	50
8	90°	8	60
10	90°	10	75
12	90°	12	75

Ordering Code

DXZ-2F-01900450
DXZ-2F-02900450
DXZ-2F-03900450
DXZ-2F-04900450
DXZ-2F-05900550
DXZ-2F-06900650
DXZ-2F-08900860
DXZ-2F-10901075
DXZ-2F-12901275

ISO	被加工材料 Workpiece Material	切削量 (mm) Depth of cut	Vc m/min		刃径 Tool Diameter (mm)					
					2	4	6	8	10	12
H	合金钢, 淬硬钢(<60HRC) Alloy steel, hardened steel	ap≤1D ap≤0.05D	120	转速 rate speed (min-1) 进给速度 feed velocity (mm/min)	19110 380	9550 380	6370 380	7170 930	4780 380	3490 360
	合金钢, 淬硬钢(65HRC) Alloy steel, hardened steel	ap≤0.7D ap≤0.03D	90	转速 rate speed (min-1) 进给速度 feed velocity (mm/min)	15920 260	11940 360	7960 370	5180 620	4780 370	3980 340

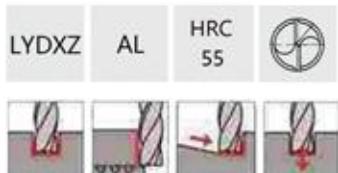
上表是侧铣加工的标准值，刀具切槽时，转速要以上表格的50%~70%，进给速度要以40%~60%为标准值。

Above table is the standard cutting data for side milling machining, if for groove cutting , the VC should reach 50%~70% and the feed should reach 40%~60% based on the table.



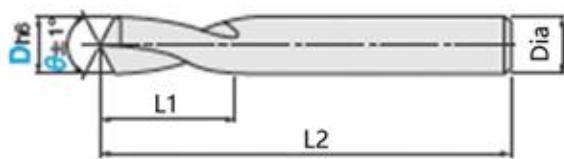
铝合金, 超高亮效 Aluminum Alloy, Super Bright High Efficient

Center Drill (Standard)



P	
M	
K	
N	●
S	
H	

单位 Unit	(mm)
D	D
公差 Tol	0
	-0.015



Diameter D mm	Angle	Shank D2 mm	Overall Length L2 mm
1	90°	4	50
2	90°	4	50
3	90°	4	50
4	90°	4	50
5	90°	5	50
6	90°	6	50
8	90°	8	60
10	90°	10	75
12	90°	12	75
4	90°	4	100
6	90°	6	100
8	90°	8	100
10	90°	10	100
12	90°	12	100
16	90°	16	100

Ordering Code
LYDXZ-2F-01900450
LYDXZ-2F-02900450
LYDXZ-2F-03900450
LYDXZ-2F-04900450
LYDXZ-2F-05900550
LYDXZ-2F-06900650
LYDXZ-2F-08900860
LYDXZ-2F-10901075
LYDXZ-2F-12901275
LYDXZ-2F-049004100
LYDXZ-2F-069006100
LYDXZ-2F-089008100
LYDXZ-2F-109010100
LYDXZ-2F-129012100
LYDXZ-2F-169016100

ISO	被加工材料 Workpiece Material	切削量 (mm) Depth of cut	Vc m/min	
N	锻造及铸造铝合金(Si<12%) Forging and casting aluminum alloy 铜合金<200HB) Copper alloy	ap≤1.5D ap≤0.2D	150 (60~350)	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)

刃径 tool Diameter (mm)									
1	2	4	6	8	10	12	16	20	
16000 580	12700 710	12000 1200	10600 1280	10000 1390	9500 1720	9280 2400	7000 2500	5600 2450	
16000 520	12700 650	12000 1070	10600 1150	10000 1250	9500 1550	9280 2170	7000 2250	5600 2200	

整体硬质合金内径立铣刀

Solid Carbide Inner R EndMill

- 适用于铜、不锈钢、合金钢、碳钢、铸铁等材料
- 适用于圆弧加工，具有光洁度高、不起毛边等特点
- 内R铣刀使用最新的超细碳化钨，具有最高的耐磨性和强度
- Suitable for copper, stainless steel, alloy steel, carbon steel, cast iron and other materials.
- It is suitable for arc processing and has the characteristics of high smoothness and no burrs.
- The inner R end mill uses the latest ultra-fine tungsten carbide, which has the highest wear resistance and strength.



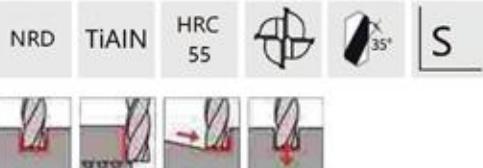
刃口耐磨性和刀具刚性提升

Improved edge wear resistance and tool steel

全球合作伙伴-WORLDWIDE RELIABLE PARTNERS

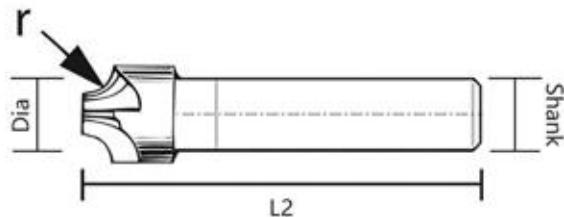


Internal R End Mill (Standard)



P	●
M	
K	●
N	
S	
H	

单位 Unit	(mm)
D	D
公差 Tol	0
	-0.015



Diameter D mm	Radius R mm	Shank D2 mm	Overall Length L2 mm
4	0.5	4	50
4	0.75	4	50
4	1	4	50
6	1.5	6	50
6	2	6	50
6	2.5	6	50
8	3	8	60
10	4	10	60
12	5	12	60
14	6	14	75
16	7	16	75

Ordering Code

NRD-4F-040050450
NRD-4F-0400750450
NRD-4F-04010450
NRD-4F-060150650
NRD-4F-06020650
NRD-4F-060250650
NRD-4F-0803060
NRD-4F-10041060
NRD-4F-12051260
NRD-4F-14061475
NRD-4F-16071675

ISO	被加工材料 Workpiece Material	切削量 (mm) Depth of cut	Vc m/min		刃径 Tool Diameter (mm)							
					3	4	6	8	10	12	16	20
P	碳钢合金 (<45HRC) Carbon steel alloy steel	ap≤1.5D	200	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	21230 2040	15920 1960	10620 1690	7960 1670	6370 1620	5310 1590	3980 1490	3190 1480
	合金钢 (50HRC) Alloy Steel	ap≤0.15D	150	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	15920 1290	10350 1180	7960 1080	5970 1160	4780 1050	3980 930	2990 760	2390 680
	灰铸铁, 球墨铸铁 (<32HRC) Grey cast iron, nodular cast iron	ap≤1.5D	170	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	18050 1620	13540 1500	9020 1440	6770 1330	5410 1200	4510 1150	3380 1020	2710 930
	高合金铸铁 (35-45HRC) High alloy cast iron	ap≤0.12D	150	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	15920 1290	11940 1250	7960 1190	5970 1090	4780 1000	3980 960	2990 850	2390 770

上表是侧铣加工的标准值, 刀具切槽时, 转速要以上表的50%~70%, 进给速度要以40%~60%为标准值。

Above table is the standard cutting data for side milling machining, if for groove cutting the VC should reach 50%-70% and the feed should reach 40%-60% based on the table.



铝合金，超高亮效 Aluminum Alloy, Super Bright High Efficient

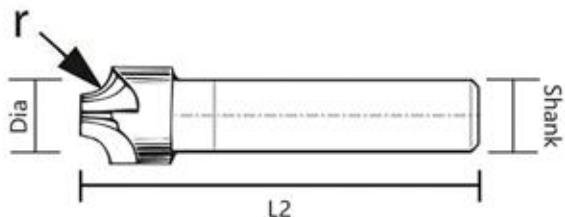
Internal R End Mill (Standard)

LYNRD AL F IRC 55 R



单位 Unit	(mm)
D	D
公差 Tol	0
	-0.015

P	
M	
K	
N	●
S	
H	



Diameter D mm	Radius R mm	Shank D2 mm	Overall Length L2 mm
4	0.5	4	50
4	0.75	4	50
4	1	4	50
6	1.5	6	50
6	2	6	50
6	2.5	6	50
8	3	8	60
10	4	10	60
12	5	12	60
14	6	14	75
16	7	16	75

Ordering Code

NRD-LY-4F-040050450
 NRD-LY-4F-0400750450
 NRD-LY-4F-04010450
 NRD-LY-4F-060150650
 NRD-LY-4F-06020650
 NRD-LY-4F-060250650
 NRD-LY-4F-08030860
 NRD-LY-4F-10041060
 NRD-LY-4F-12051260
 NRD-LY-4F-14601475
 NRD-LY-4F-16071675

ISO	被加工材料 Workpiece Material	切削量 (mm) Depth of cut	Vc m/min		刃径 tool Diameter (mm)								
					1	2	4	6	8	10	12	16	20
N	锻造及铸造铝合金(SI<12%) Forging and casting aluminum alloy 铜合金(<200HB) Copper alloy	ap≤1.5D ap≤0.2D	150 (60~350)	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	16000 650	13000 850	12000 1430	10600 1530	10000 1670	9500 2050	9280 2800	7000 3000	5600 3150
		ap≤1.5D ap≤0.2D	150 (60~350)	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	16000 720	13000 900	12000 1200	10600 1200	10000 1500	9500 1800	9280 2225	7000 2500	5600 3000

ISO	被加工材料 Workpiece Material	切削量 (mm) Depth of cut	Vc m/min		刃径 tool Diameter (mm)								
					1	2	4	6	8	10	12	16	20
N	锻造及铸造铝合金(SI<12%) Forging and casting aluminum alloy 铜合金(<200HB) Copper alloy	ap≤1.5D ap≤0.2D	150 (60~350)	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	16000 450	10000 570	9000 960	8000 1050	7800 1300	8000 1500	6800 1620	5000 1680	4000 1800
		ap≤1.5D ap≤0.2D	150 (60~350)	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	16000 450	10000 520	9000 860	8000 830	7800 9600	8000 1240	6800 1500	5000 1500	4000 1510

T型/燕尾立铣刀

T-Shaped/Dovetail End Mill



- 具有缩短的颈部，适用于长距离加工操作
- 圆角半径轮廓可提高强度
- 整体硬质合金，经久耐用
- Features shortened neck for long distance machining operations
- Rounded corner radius profile increases strength
- Solid carbide for durability

特殊的刃口设计，有效解决刀具刃口沾屑问题

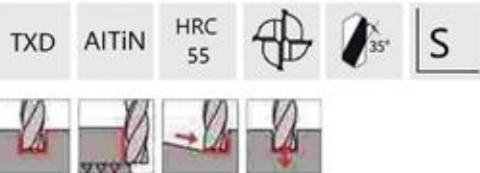
Special edge design, effectively solve the problem of sticky

全球合作伙伴-WORLDWIDE RELIABLE PARTNERS



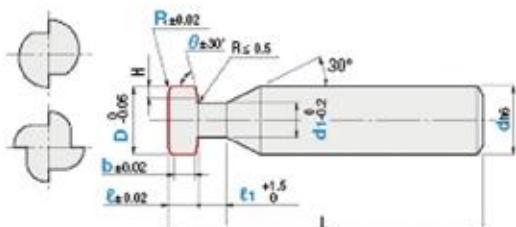
钢, 铸铁 Steel, Cast iron

T-Slot End Mill (Standard)



单位 Unit	(mm)
D	D
公差 Tol	±0.01

P	●
M	
K	●
N	
S	
H	



Diameter D mm	Blade Thickness L mm	Shank D2 mm	Overall Length L2 mm
3	0.5/1.5/2	4	50
4	0.5/1.5/2	4	50
6	0.5/1.5/2/2.5/3	6	50
8	0.5/1.5/2/2.5/3	8	50
10	1/1.5/2/2.5/3/4/5	10	60
12	1/1.5/2/2.5/3/4/5	12	60
14	1/1.5/2/2.5/3/4/5	14	75
16	1/1.5/2/2.5/3/4/5	16	75

Ordering Code

TXD-4F-030050450
TXD-4F-040050450
TXD-4F-060050650
TXD-4F-080050850
TXD-4F-10011060
TXD-4F-12041260
TXD-4F-14011475
TXD-4F-16011675

ISO	被加工材料 Workpiece Material	切削量 (mm) Depth of cut	Vc m/min		刃径 Tool Diameter (mm)							
					0.8	0.9	1.0	1.2	1.4	1.6	1.8	2.0
P	硬铜合金 (<45HRC) Carbon steel alloy steel 合金钢 (50HRC) Alloy Steel	ap≤0.5D	90	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	35830 1150	31850 1150	28600 1150	23890 1100	20470 1110	17910 1070	15920 1110	5840 2800
		ap≤0.05D		转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	27870 840	24770 840	22290 850	18580 820	15920 800	13930 780	12380 820	4780 2000
K	灰铸铁, 球墨铸铁 (<32HRC) Grey cast iron, nodular cast iron 高合金铸铁 (35-45HRC) High alloy cast iron	ap≤0.5D	90	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	35830 1150	31850 1150	28660 1150	23890 1100	20470 1100	17910 1070	15920 1110	5840 2530
		ap≤0.05D		转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	31850 830	28310 850	25480 820	21230 760	18200 800	15920 860	14150 910	5840 2440

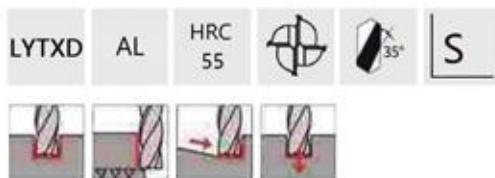
上表是侧铣加工的标准值。刀具切槽时，转速要以上表的50%~70%，进给速度要以40%~60%为标准值。

Above table is the standard cutting data for side milling machining, if for groove cutting the Vc should reach 50%-70% and the feed should reach 40%-60% based on the table.



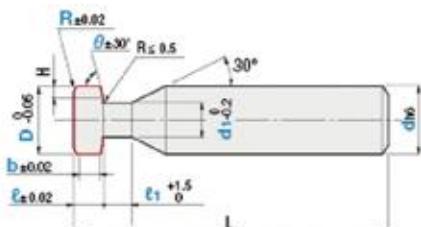
铝合金, 超高亮效 Aluminum Alloy, Super Bright High Efficient

T-Slot End Mill (Standard)



P
M
K
N
S
H

单位 Unit	(mm)
D	D
公差 Tol	±0.01



Diameter D mm	Blade Thickness L mm	Shank D2 mm	Overall Length L2 mm
3	0.5/1.5/2	4	50
4	0.5/1.5/2	4	50
6	0.5/1.5/2/2.5/3	6	50
8	0.5/1.5/2/2.5/3	8	50
10	1/1.5/2/2.5/3/4/5	10	60
12	1/1.5/2/2.5/3/4/5	12	60
14	1/1.5/2/2.5/3/4/5	14	75
16	1/1.5/2/2.5/3/4/5	16	75

Ordering Code

TXD-LY-4F-030050450
TXD-LY-4F-040050450
TXD-LY-4F-060050650
TXD-LY-4F-080050850
TXD-LY-4F-10011060
TXD-LY-4F-12041260
TXD-LY-4F-14011475
TXD-LY-4F-16011675

ISO	被加工材料 Workpiece Material	切削量 (mm) Depth of cut	Vc m/min	
N	锻造及铸造铝合金(Si<12%) Forging and casting aluminum alloy 铜合金(<200HB) Copper alloy	ap≤1.5D ap≤0.2D ap≤1.5D ap≤0.2D	150 (60~350) 150 (60~350)	转速 rate speed (min-1) 进给转速 feed velocity (mm/min) 转速 rate speed (min-1) 进给转速 feed velocity (mm/min)

刃径 tool Diameter (mm)								
1	2	4	6	8	10	12	16	20
16000 650	13000 850	12000 1430	10600 1530	10000 1670	9500 2050	9280 2800	7000 3000	5600 3150

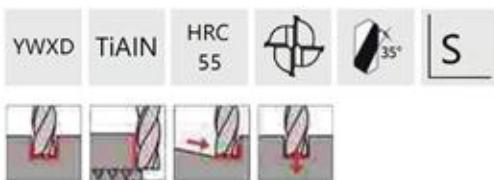
ISO	被加工材料 Workpiece Material	切削量 (mm) Depth of cut	Vc m/min	
N	锻造及铸造铝合金(Si<12%) Forging and casting aluminum alloy 铜合金(<200HB) Copper alloy	ap≤1.5D ap≤0.2D ap≤1.5D ap≤0.2D	150 (60~350) 150 (60~350)	转速 rate speed (min-1) 进给转速 feed velocity (mm/min) 转速 rate speed (min-1) 进给转速 feed velocity (mm/min)

刃径 tool Diameter (mm)								
1	2	4	6	8	10	12	16	20
16000 450	10000 570	9000 960	8000 1050	7800 1300	8000 1500	6800 1620	5000 1680	4000 1800



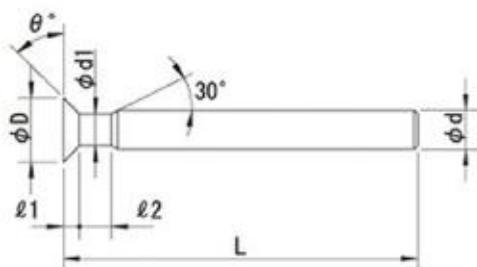
钢, 铸铁 Steel, Cast iron

Dovetail End Mill (Standard)



P	●
M	
K	●
N	
S	
H	

单位 Unit	(mm)
D	D
公差 Tol	0
	-0.015



Diameter D mm	Angle 30°	Shank D2 mm	Overall Length L2 mm
1	30°	4	50
1.5	30°	4	50
2	30°	4	50
2.5	30°	4	50
3	30°	4	50
4	30°	4	50
6	30°	6	50
8	30°	8	60
10	30°	10	75
1	45°	4	50
1.5	45°	4	50
2	45°	4	50
2.5	45°	4	50
3	45°	4	50
4	45°	4	50
6	45°	6	50
8	45°	8	60
10	45°	10	75

Ordering Code

YWXD-4F-01300450
YWXD-4F-015300450
YWXD-4F-02300450
YWXD-4F-025302450
YWXD-4F-03300450
YWXD-4F-04300450
YWXD-4F-06300350
YWXD-4F-08300860
YWXD-4F-10301075
YWXD-4F-01450450
YWXD-4F-015450450
YWXD-4F-02450450
YWXD-4F-025450450
YWXD-4F-03450450
YWXD-4F-04450450
YWXD-4F-06450650
YWXD-4F-08450860
YWXD-4F-10451075

ISO	被加工材料 Workpiece Material	切削量 (mm) Depth of cut	Vc m/min	刀具 Tool Diameter (mm)								
				3	4	6	8	10	12	16	20	
P	碳钢合金 (<45HRC) Carbon steel alloy steel 合金钢 (50HRC) Alloy Steel	ap≤1.5D ap≤0.15D ap≤1D ap≤0.12D	200	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	21230 2040	15920 1960	10620 1690	7960 1670	6370 1620	5310 1590	3980 1490	3190 1480
K	灰铸铁、球墨铸铁 (<32HRC) Grey cast iron, nodular cast iron 高合金铸铁 (35~45HRC) High alloy cast iron	ap≤1.5D ap≤0.15D ap≤1D ap≤0.12D	170 150	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	18050 1620	13540 1500	9020 1440	6770 1330	5410 1200	4510 1150	3380 1020	2710 930
				转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	15920 1290	11940 1250	7960 1190	5970 1090	4780 1000	3980 960	2990 850	2390 770

上表是侧铣加工的标准值，刀具切槽时，转速要以上表的50%~70%，进给速度要以40%~60%为标准值。

Above table is the standard cutting data for side milling machining, if for groove cutting the VC should reach 50%-70% and the feed should reach 40%-60% based on the table.

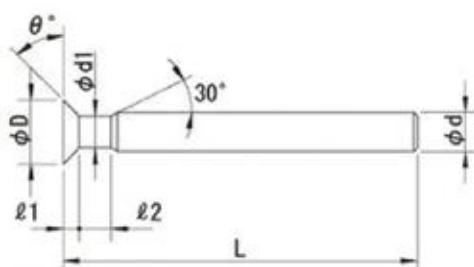


Dovetail End Mill (Standard)

YWXD AL HRC 55 S



P
M
K
N
S
H



单位 Unit	(mm)
D	D
公差 Tol	0
	-0.015

Diameter D mm	Angle 30°	Shank D2 mm	Overall Length L2 mm
1	30°	4	50
1.5	30°	4	50
2	30°	4	50
2.5	30°	4	50
3	30°	4	50
4	30°	4	50
6	30°	6	50
8	30°	8	60
10	30°	10	75
1	45°	4	50
1.5	45°	4	50
2	45°	4	50
2.5	45°	4	50
3	45°	4	50
4	45°	4	50
6	45°	6	50
8	45°	8	60
10	45°	10	75

Ordering Code

YWXD-LY-4F-01300450
YWXD-LY-4F-015300450
YWXD-LY-4F-02300450
YWXD-LY-4F-025302450
YWXD-LY-4F-03300450
YWXD-LY-4F-04300450
YWXD-LY-4F-06300350
YWXD-LY-4F-08300860
YWXD-LY-4F-10301075
YWXD-LY-4F-01450450
YWXD-LY-4F-015450450
YWXD-LY-4F-02450450
YWXD-LY-4F-025450450
YWXD-LY-4F-03450450
YWXD-LY-4F-04450450
YWXD-LY-4F-06450650
YWXD-LY-4F-08450860
YWXD-LY-4F-10451075

ISO	被加工材料 Workpiece Material	切削量 (mm) Depth of cut	Vc m/min	
N	锻造及铸造铝合金(SI<12%) Forging and casting aluminum alloy 铜合金(<200HB) Copper alloy	ap≤1.5D (60~350)	150 进给转速 feed velocity (mm/min)	转速 rate speed (min-1)

刃径 tool Diameter (mm)									
1	2	4	6	8	10	12	16	20	
16000	13000	12000	10600	10000	9500	9280	7000	5600	
650	850	1430	1530	1670	2050	2800	3000	3150	
16000	13000	12000	10600	10000	9500	9280	7000	5600	
720	900	1200	1200	1500	1800	2225	2500	3000	

ISO	被加工材料 Workpiece Material	切削量 (mm) Depth of cut	Vc m/min	
N	锻造及铸造铝合金(SI<12%) Forging and casting aluminum alloy 铜合金(<200HB) Copper alloy	ap≤1.5D (60~350)	150 进给转速 feed velocity (mm/min)	转速 rate speed (min-1)

刃径 tool Diameter (mm)									
1	2	4	6	8	10	12	16	20	
16000	10000	9000	8000	7800	8000	6800	5000	4000	
450	570	960	1050	1300	1500	1620	1680	1800	
16000	10000	9000	8000	7800	8000	6800	5000	4000	
450	520	860	830	9600	1240	1500	1500	1510	

螺纹铣刀 - 硬质合金

Thread End Mills - Carbide

- 适用于不锈钢、热处理模具钢等各种高硬钢件材料
- 结合全磨圆弧刃锋利刃口，高耐磨专业铣削设计
- Suitable for stainless steel, heat-treated mold steel and other high-hardness steel materials
- Combined with fully ground arc sharp edges, high wear-resistant professional milling design



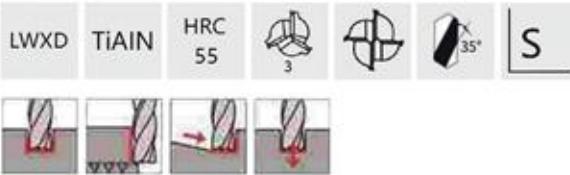
刃口耐磨性和刀具刚性提升
Improved edge wear resistance and tool rigidity

全球合作伙伴-WORLDWIDE RELIABLE PARTNERS



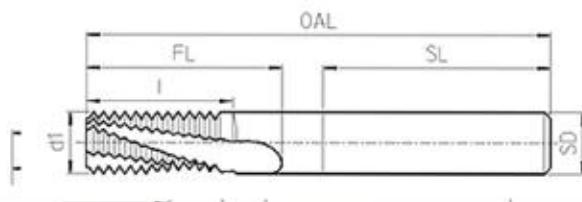
钢, 铸铁 Steel, Cast iron

Thread End Mill (standard)



单位 Unit	(mm)
D	D
公差 Tol	0
	-0.015

P	●
M	
K	●
N	
S	
H	



Model (pitch P)	Diameter D	Cutting Length L	Shank D2	Overall Length L2
	mm	mm	mm	mm
M3*P0.5	2.3	6	4	50
M6*P0.5	4	10	4	50
M8-M12*P0.5	6	13	6	60
M3.5*P0.6	2.7	7	4	50
M4*P0.7	3	8	4	50
M4.5*P0.75	3.4	9	4	50
M6*P0.75	4.8	12	6	60
M8*P0.75	6	16	6	60
M10-M12*P0.75	8	20	8	60
M5*P0.8	4	10	4	50
M6*P1	4.8	12	6	60
M8*P1	6	16	6	60
M10*P1	8	20	8	60
M12-M14*P1	10	22	10	75
M16*P1	12	30	12	75
M20-M48*P1	16	30	16	90
M8*P1.25	6	16	6	60
M10*P1.25	8	20	8	60
M12-M14*P1.25	10	25	10	75
M10*P1.5	8	20	8	60
M12-M20*P1.5	10	28	10	75
M14-M24*P1.5	12	28	12	75
M20-M48*P1.5	16	30	16	90
M12*P1.75	9.8	30	10	75
M14*P2.0	10	30	10	75
M16*P2.0	12	30	12	75
M20-M80*P2.0	16	40	16	100
M18-M20*P2.5	14	36	14	100
M20-M80*P2.5	16	40	16	100
M24*P3.0	16	42	16	100

Ordering Code								
LWXD-3F-023060450								
LWXD-3F-04100450								
LWXD-3F-06130660								
LWXD-3F-027070450								
LWXD-3F-03080450								
LWXD-3F-034090450								
LWXD-3F-048120660								
LWXD-3F-06160660								
LWXD-3F-08200860								
LWXD-3F-04100450								
LWXD-3F-048120660								
LWXD-3F-06160660								
LWXD-3F-08200860								
LWXD-4F-10221075								
LWXD-4F-12301275								
LWXD-4F-16301690								
LWXD-3F-06160660								
LWXD-3F-08200860								
LWXD-4F-10251075								
LWXD-3F-08200860								
LWXD-4F-10281075								
LWXD-4F-12281275								
LWXD-4F-16301690								
LWXD-4F-098301075								
LWXD-4F-10301075								
LWXD-4F-12301275								
LWXD-4F-164016100								
LWXD-4F-143614100								
LWXD-4F-164016100								
LWXD-4F-164216100								

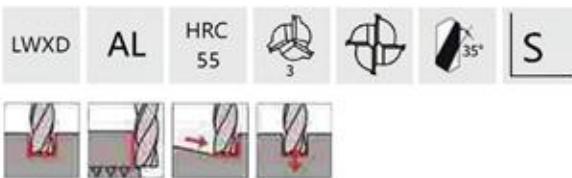
ISO	被加工材料 Workpiece Material	切削量 (mm) Depth of cut	Vc m/min	刀具直径 (mm) Tool Diameter (mm)								
				0.8	0.9	1.0	1.2	1.4	1.6	1.8	2.0	
P	碳素合金 (<45HRC) Carbon steel alloy steel	ap≤0.5D	90	转速 rate speed (min-1) 进给速度 feed velocity (mm/min)	35830 1150	31850 1150	28600 1150	23890 1100	20470 1110	17910 1070	15920 1110	5840 2800
		ap≤0.05D			27870 840	24770 840	22290 850	18580 820	15920 800	13930 780	12380 820	4780 2000
		ap≤0.5D	70	转速 rate speed (min-1) 进给速度 feed velocity (mm/min)								
		ap≤0.05D										
K	灰铸铁, 球墨铸铁 (<32HRC) Gry cast iron, nodular cast iron	ap≤0.5D	90	转速 rate speed (min-1) 进给速度 feed velocity (mm/min)	35830 1150	31850 1150	28660 1150	23890 1100	20470 1100	17910 1070	15920 1110	5840 2530
		ap≤0.05D			31850 830	28310 850	25480 820	21230 760	18200 800	15920 860	14150 910	5840 2440
		ap≤0.5D	80	转速 rate speed (min-1) 进给速度 feed velocity (mm/min)								
		ap≤0.05D										

上表是倒统加工的标准值，刀具切槽时，转速要以上表的50%~70%，进给速度要以40%~60%为标准值。

Above table is the standard cutting data for side milling machining, if for groove cutting the VC should reach 50%-70% and the feed should reach 40%-60% based on the table.

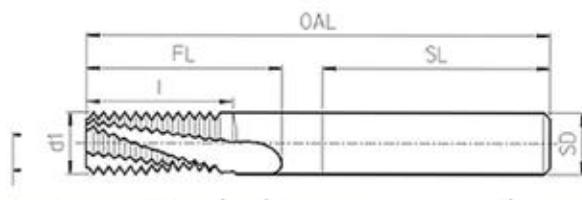


Thread End Mill (standard)



单位 Unit	(mm)
D	D
公差 Tol	0
	-0.015

P
M
K
N
S
H



Model (pitch P)	Diameter D	Cutting Length L	Shank D2	Overall Length L2
	mm	mm	mm	mm
M3*P0.5	2.3	6	4	50
M6*P0.5	4	10	4	50
M8-M12*P0.5	6	13	6	60
M3.5*P0.6	2.7	7	4	50
M4*P0.7	3	8	4	50
M4.5*P0.75	3.4	9	4	50
M6*P0.75	4.8	12	6	60
M8*P0.75	6	16	6	60
M10-M12*P0.75	8	20	8	60
M5*P0.8	4	10	4	50
M6*P1	4.8	12	6	60
M8*P1	6	16	6	60
M10*P1	8	20	8	60
M12-M14*P1	10	22	10	75
M16*P1	12	30	12	75
M20-M48*P1	16	30	16	90
M8*P1.25	6	16	6	60
M10*P1.25	8	20	8	60
M12-M14*P1.25	10	25	10	75
M10*P1.5	8	20	8	60
M12-M20*P1.5	10	28	10	75
M14-M24*P1.5	12	28	12	75
M20-M48*P1.5	16	30	16	90
M12*P1.75	9.8	30	10	75
M14*P2.0	10	30	10	75
M16*P2.0	12	30	12	75
M20-M80*P2.0	16	40	16	100
M18-M20*P2.5	14	36	14	100
M20-M80*P2.5	16	40	16	100
M24*P3.0	16	42	16	100

Ordering Code

LWXD-3F-YL023060450
 LWXD-3F-YL04100450
 LWXD-3F-YL06130660
 LWXD-3F-YL027070450
 LWXD-3F-YL03080450
 LWXD-3F-YL034090450
 LWXD-3F-YL048120660
 LWXD-3F-YL06160660
 LWXD-3F-YL08200860
 LWXD-3F-YL04100450
 LWXD-3F-YL048120660
 LWXD-3F-YL06160660
 LWXD-3F-YL08200860
 LWXD-4F-YL10221075
 LWXD-4F-YL12301275
 LWXD-4F-YL16301690
 LWXD-3F-YL06160660
 LWXD-3F-YL08200860
 LWXD-4F-YL10251075
 LWXD-3F-YL08200860
 LWXD-4F-YL10281075
 LWXD-4F-YL12281275
 LWXD-4F-YL16301690
 LWXD-4F-YL098301075
 LWXD-4F-YL10301075
 LWXD-4F-YL12301275
 LWXD-4F-YL164016100
 LWXD-4F-YL143614100
 LWXD-4F-YL164016100
 LWXD-4F-YL164216100

ISO	被加工材料 Workpiece Material	切削量 (mm) Depth of cut	Vc m/min		刃径 tool Diameter (mm)								
					1	2	4	6	8	10	12	16	20
N	锻造及铸造铝合金(Si<12%) Forging and casting aluminum alloy 铜合金(<200HB) Copper alloy	ap≤0.5D ap≤1D	150 (60~350)	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	16000 400	10000 500	9000 810	8000 920	7800 1100	8000 1280	6800 1300	5000 1310	4000 1200
		ap≤0.5D ap≤1D	150 (60~350)	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	16000 380	10000 450	9000 800	8000 830	7800 1000	8000 1150	6800 1130	5000 1000	4000 1080

钻头系列

CNC进口整体钨钢钻头

CNC imported solid tungsten steel drill



- 0.4μm微颗粒钨钢原料，具有更高的耐磨性和更高硬度的高速切削
- 适用于钢材类，铝合金，不锈钢，铸铁，短切屑有色金属及镍基合金，钛合金等大多数材料的加工。
- 0.4μm micro-particle tungsten steel raw material has higher wear resistance and higher hardness for high-speed cutting.
- Suitable for steel, aluminum alloy, stainless steel, cast iron, short-chip non-ferrous metals, nickel-based alloys, and titanium alloys.

特殊的刃口设计，有效解决刀具刃口沾屑问题

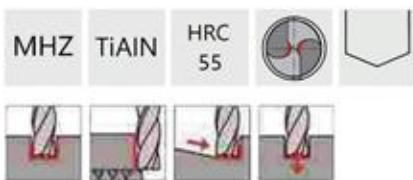
Special edge design, effectively solve the problem of sticky

全球合作伙伴-WORLDWIDE RELIABLE PARTNERS



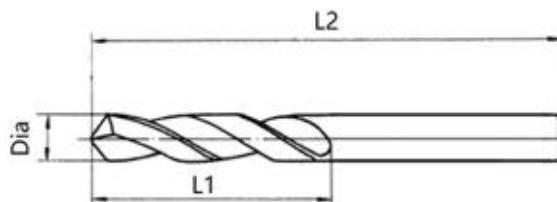
钢, 铸铁 Steel, Cast iron

Twist Drill (Standard)



P	●
M	
K	●
N	
S	
H	

单位 Unit	(mm)
D	D
公差 Tolerance	0
	-0.015



Diameter D mm	Cutting Length L1 mm	Shank D2 mm	Overall Length L2 mm
1-2		1-2	40
2.1-2.9		2.1-2.9	40
3-4		3-4	50
4.1-5		4.1-5	50
5.1-6		5.1-6	50
6.1-7.1		6.1-7.1	50
7.2-8.1		7.2-8.1	60
8.2-9.1		8.2-9.1	75
9.2-10.1		9.2-10.1	75
10.2-11.1		10.2-11.1	75
11.2-12.1		11.2-12.1	75
12.2-13.1		12.2-13.1	75
13.2-14		13.2-14	100
14.1-15.1		14.1-15.1	100
15.2-16.1		15.2-16.1	100
16.2-17.1		16.2-17.1	100
17.2-18.1		17.2-18.1	100
18.2-19.1		18.2-19.1	100
19.2-20		19.2-20	100

Ordering Code

MHZ-2F-010140
MHZ-2F-02102140
MHZ-2F-03203250
MHZ-2F-04104150
MHZ-2F-05105150
MHZ-2F-06106150
MHZ-2F-07207260
MHZ-2F-08208275
MHZ-2F-09209275
MHZ-2F-10210275
MHZ-2F-11211275
MHZ-2F-12212275
MHZ-2F-132132100
MHZ-2F-141141100
MHZ-2F-152152100
MHZ-2F-162162100
MHZ-2F-172172100
MHZ-2F-182182100
MHZ-2F-192192100

ISO	被加工材料 Workpiece Material	切削量 (mm) Depth of cut	Vc m/min	
P	碳钢合金 (<45HRC) Carbon steel alloy steel 合金钢 (50HRC) Alloy Steel	ap≤0.5D ap≤0.05D ap≤0.5D ap≤0.05D	90 70	转速 rate speed (min-1) 进给转速 feed velocity (mm/min) 转速 rate speed (min-1) 进给转速 feed velocity (mm/min)
K	灰铸铁, 球墨铸铁 (<32HRC) Grey cast iron, nodular cast iron 高合金铸铁 (35-45HRC) High alloy cast iron	ap≤0.5D ap≤0.05D ap≤0.5D ap≤0.05D	90 80	转速 rate speed (min-1) 进给转速 feed velocity (mm/min) 转速 rate speed (min-1) 进给转速 feed velocity (mm/min)

刃径 Tool Diameter (mm)								
0.8	0.9	1.0	1.2	1.4	1.6	1.8	2.0	
35830 1150	31850 1150	28600 1150	23890 1100	20470 1110	17910 1070	15920 1110	5840 2800	
27870 840	24770 840	22290 850	18580 820	15920 800	13930 780	12380 820	4780 2000	
35830 1150	31850 1150	28660 1150	23890 1100	20470 1100	17910 1070	15920 1110	5840 2530	
31850 830	28310 850	25480 820	21230 760	18200 800	15920 860	14150 910	5840 2440	

上表是侧铣加工的标准值，刀具切槽时，转速要以上表的50%~70%，进给速度要以40%~60%为标准值。

Above table is the standard cutting data for side milling machining, if for groove cutting the VC should reach 50%-70% and the feed should reach 40%-60% based on the table.



钢, 铸铁 Steel, Cast iron

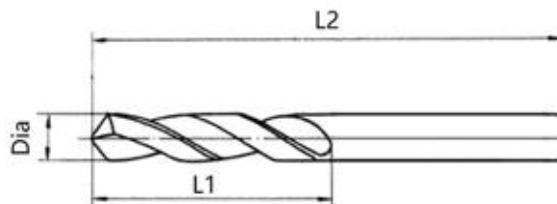
Twist Drill (Extra Long)

MHZ TiAlN HRC 55



P	●
M	
K	●
N	
S	
H	

单位 Unit	(mm)
D	D
公差 Tol	0
	-0.015



Diameter D mm	Cutting Length L1 mm	Shank D2 mm	Overall Length L2 mm
3-4	LOC=1/2 OAL	3-4	100
4.1-5		4.1-5	100
5.1-6		5.1-6	100
6.1-7.1		6.1-7.1	100
7.2-8.1		7.2-8.1	100
8.2-9.1		8.2-9.1	100
9.2-10.1		9.2-10.1	100
10.2-11.1		10.2-11.1	100
11.2-12.1		11.2-12.1	100
12.2-13.1		12.2-13.1	100

Ordering Code

MHZ-2F-0303100
 MHZ-2F-041041100
 MHZ-2F-051051100
 MHZ-2F-061061100
 MHZ-2F-072072100
 MHZ-2F-082082100
 MHZ-2F-092092100
 MHZ-2F-102102100
 MHZ-2F-112112100
 MHZ-2F-122122100

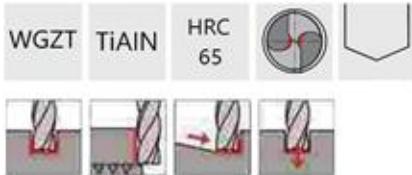
ISO	被加工材料 Workpiece Material	切削量 (mm) Depth of cut	Vc m/min		刀具直径 (mm)							
					0.8	0.9	1.0	1.2	1.4	1.6	1.8	2.0
P	碳钢合金 (<45HRC) Carbon steel alloy steel 合金钢 (50HRC) Alloy Steel	ap≤0.5D ap≤0.05D	90	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	35830 1150	31850 1150	28600 1150	23890 1100	20470 1110	17910 1070	15920 1110	5840 2800
				转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	27870 840	24770 840	22290 850	18580 820	15920 800	13930 780	12380 820	4780 2000
		ap≤0.5D ap≤0.05D	70	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	35830 1150	31850 1150	28660 1150	23890 1100	20470 1100	17910 1070	15920 1110	5840 2530
				转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	31850 830	28310 850	25480 820	21230 760	18200 800	15920 860	14150 910	5840 2440
K	灰铸铁, 球墨铸铁 (<32HRC) Grey cast iron, nodular cast iron 高合金铸铁 (35-45HRC) High alloy cast iron	ap≤0.5D ap≤0.05D	90	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	35830 1150	31850 1150	28660 1150	23890 1100	20470 1100	17910 1070	15920 1110	5840 2530
				转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	31850 830	28310 850	25480 820	21230 760	18200 800	15920 860	14150 910	5840 2440

上表是侧铣加工的标准值，刀具切槽时，转速要以上表的50%~70%，进给速度要以40%~60%为标准值。

Above table is the standard cutting data for side milling machining, if for groove cutting the VC should reach 50%-70% and the feed should reach 40%-60% based on the table.

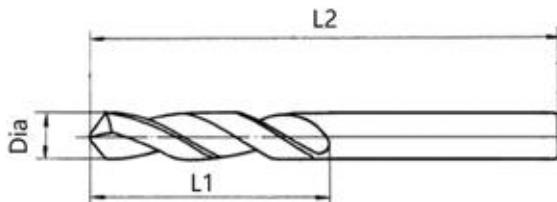


Twist Drill (Standard)



P	●
M	●
K	●
N	
S	
H	●

单位 Unit	(mm)
D	D
公差 Tol	0
	-0.015



Diameter D mm	Cutting Length L1 mm	Shank D2 mm	Overall Length L2 mm
1-2		1-2	40
2.1-2.9		2.1-2.9	40
3-4		3-4	50
4.1-5		4.1-5	50
5.1-6		5.1-6	50
6.1-7.1		6.1-7.1	50
7.2-8.1		7.2-8.1	60
8.2-9.1		8.2-9.1	75
9.2-10.1		9.2-10.1	75
10.2-11.1		10.2-11.1	75
11.2-12.1		11.2-12.1	75
12.2-13.1		12.2-13.1	75
13.2-14		13.2-14	100
14.1-15.1		14.1-15.1	100
15.2-16.1		15.2-16.1	100
16.2-17.1		16.2-17.1	100
17.2-18.1		17.2-18.1	100
18.2-19.1		18.2-19.1	100
19.2-20		19.2-20	100

Ordering Code
WGZT-2F-010140
WGZT-2F-02102140
WGZT-2F-03203250
WGZT-2F-04104150
WGZT-2F-05105150
WGZT-2F-06106150
WGZT-2F-07207260
WGZT-2F-08208275
WGZT-2F-09209275
WGZT-2F-10210275
WGZT-2F-11211275
WGZT-2F-12212275
WGZT-2F-132132100
WGZT-2F-141141100
WGZT-2F-152152100
WGZT-2F-162162100
WGZT-2F-172172100
WGZT-2F-182182100
WGZT-2F-192192100

ISO	被加工材料 Workpiece Material	切削量 (mm) Depth of cut	Vc m/min		刃径 Tool Diameter (mm)						
					2	4	6	8	10	12	
H	合金钢、淬硬钢(<60HRC) Alloy steel, hardened steel	ap≤1D ap≤0.05D	120	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	19110 380	9550 380	6370 380	7170 930	4780 380	3490 360	
	合金钢、淬硬钢(65HRC) Alloy steel, hardened steel	ap≤0.7D ap≤0.03D	90	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	15920 260	11940 360	7960 370	5180 620	4780 370	3980 340	

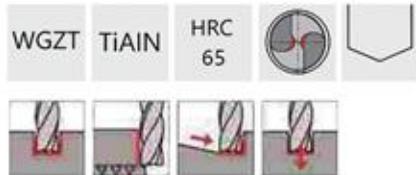
上表是侧铣加工的标准值，刀具切槽时，转速要以上表格的50%~70%，进给速度要以40%~60%为标准值。

Above table is the standard cutting data for side milling machining, if for groove cutting , the VC should reach 50%-70% and the feed should reach 40%-60% based on the table.



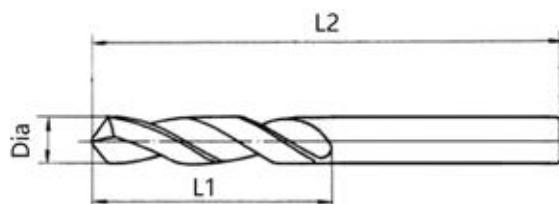
钢, 铸铁 Steel, Cast iron

Twist Drill (Extra Long)



单位 Unit	(mm)
D	D
公差 Tol	0
	-0.015

P	●
M	●
K	●
N	
S	
H	●



Diameter D mm	Cutting Length L1 mm	Shank D2 mm	Overall Length L2 mm
3-4	LOC=1/2 OAL	3-4	100
4.1-5		4.1-5	100
5.1-6		5.1-6	100
6.1-7.1		6.1-7.1	100
7.2-8.1		7.2-8.1	100
8.2-9.1		8.2-9.1	100
9.2-10.1		9.2-10.1	100
10.2-11.1		10.2-11.1	100
11.2-12.1		11.2-12.1	100
12.2-13.1		12.2-13.1	100

Ordering Code

WGZT-2F-0303100
WGZT-2F-041041100
WGZT-2F-051051100
WGZT-2F-061061100
WGZT-2F-072072100
WGZT-2F-082082100
WGZT-2F-092092100
WGZT-2F-102102100
WGZT-2F-112112100
WGZT-2F-122122100

ISO	被加工材料 Workpiece Material	切削量 (mm) Depth of cut	Vc m/min		刃径 Tool Diameter (mm)							
					2	4	6	8	10	12		
H	合金钢、淬硬钢(<60HRC) Alloy steel, hardened steel	ap≤1D ap≤0.05D	120	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	19110 380	9550 380	6370 380	7170 930	4780 380	3490 360		
	合金钢、淬硬钢(65HRC) Alloy steel, hardened steel	ap≤0.7D ap≤0.03D	90	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	15920 260	11940 360	7960 370	5180 620	4780 370	3980 340		

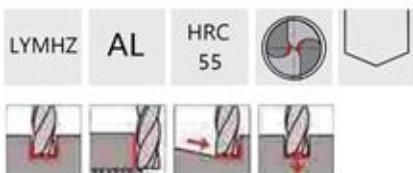
上表是侧铣加工的标准值，刀具切槽时，转速要以上表格的50%~70%，进给速度要以40%~60%为标准值。

Above table is the standard cutting data for side milling machining, if for groove cutting , the VC should reach 50%-70% and the feed should reach 40%-60% based on the table.



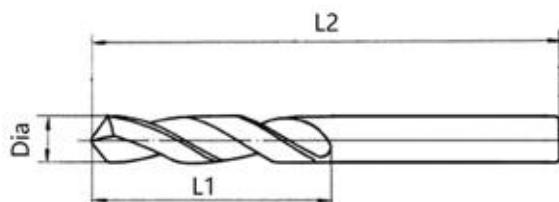
铝合金, 超高亮效 Aluminum Alloy, Super Bright High Efficient

Twist Drill (Standard)



单位 Unit	(mm)
D	D
公差 Tol	0
	-0.015

P	
M	
K	
N	●
S	
H	



Diameter D mm	Cutting Length L1 mm	Shank D2 mm	Overall Length L2 mm
1-2	LOC=1/2 OAL	1-2	40
2.1-2.9		2.1-2.9	40
3-4		3-4	50
4.1-5		4.1-5	50
5.1-6		5.1-6	50
6.1-7.1		6.1-7.1	50
7.2-8.1		7.2-8.1	60
8.2-9.1		8.2-9.1	75
9.2-10.1		9.2-10.1	75
10.2-11.1		10.2-11.1	75
11.2-12.1		11.2-12.1	75
12.2-13.1		12.2-13.1	75
13.2-14		13.2-14	100
14.1-15.1		14.1-15.1	100
15.2-16.1		15.2-16.1	100
16.2-17.1		16.2-17.1	100
17.2-18.1		17.2-18.1	100
18.2-19.1		18.2-19.1	100
19.2-20		19.2-20	100

Ordering Code

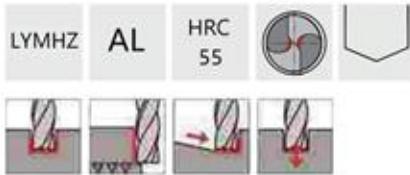
LYMHZ-2F-010140
LYMHZ-2F-02102140
LYMHZ-2F-03203250
LYMHZ-2F-04104150
LYMHZ-2F-05105150
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LYMHZ-2F-07207260
LYMHZ-2F-08208275
LYMHZ-2F-09209275
LYMHZ-2F-10210275
LYMHZ-2F-11211275
LYMHZ-2F-12212275
LYMHZ-2F-132132100
LYMHZ-2F-141141100
LYMHZ-2F-152152100
LYMHZ-2F-162162100
LYMHZ-2F-172172100
LYMHZ-2F-182182100
LYMHZ-2F-192192100

ISO	被加工材料 Workpiece Material	切削量 (mm) Depth of cut	Vc m/min		刃径 tool Diameter (mm)								
					1	2	4	6	8	10	12	16	20
N	锻造及铸造铝合金(Si<12%) Forging and casting aluminum alloy 铜合金(<200HB) Copper alloy	ap≤0.5D	150 (60~350)	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	16000 400	10000 500	9000 810	8000 920	7800 1100	8000 1280	6800 1300	5000 1310	4000 1200
		ap≤1D	150 (60~350)	转速 rate speed (min-1) 进给转速 feed velocity (mm/min)	16000 380	10000 450	9000 800	8000 830	7800 1000	8000 1150	6800 1130	5000 1000	4000 1080



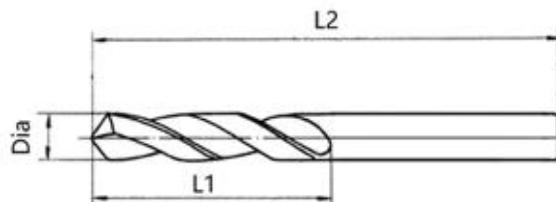
铝合金, 超高亮效 Aluminum Alloy, Super Bright High Efficient

Twist Drill (Extra Long)



单位 Unit	(mm)
D	D
公差 Tol	0
	-0.015

P	
M	
K	
N	●
S	
H	



Diameter D mm	Cutting Length L1 mm	Shank D2 mm	Overall Length L2 mm
3-4	LOC=1/2 OAL	3-4	100
4.1-5		4.1-5	100
5.1-6		5.1-6	100
6.1-7.1		6.1-7.1	100
7.2-8.1		7.2-8.1	100
8.2-9.1		8.2-9.1	100
9.2-10.1		9.2-10.1	100
10.2-11.1		10.2-11.1	100
11.2-12.1		11.2-12.1	100
12.2-13.1		12.2-13.1	100

Ordering Code

LYMHZ-2F-0303100
LYMHZ-2F-041041100
LYMHZ-2F-051051100
LYMHZ-2F-061061100
LYMHZ-2F-072072100
LYMHZ-2F-082082100
LYMHZ-2F-092092100
LYMHZ-2F-102102100
LYMHZ-2F-112112100
LYMHZ-2F-122122100

ISO	被加工材料 Workpiece Material	切削量 (mm) Depth of cut	Vc m/min		刃径 tool Diameter (mm)								
					1	2	4	6	8	10	12	16	20
N	锻造及铸造铝合金(SI<12%) Forging and casting aluminum alloy 铜合金(<200HB) Copper alloy	ap≤0.5D ap≤1D ap≤0.5D ap≤1D	150 (60~350)	转速 rote speed (min-1) 进给转速 feed velocity (mm/min)	16000 400	10000 500	9000 810	8000 920	7800 1100	8000 1280	6800 1300	5000 1310	4000 1200
					16000 380	10000 450	9000 800	8000 830	7800 1000	8000 1150	6800 1130	5000 1000	4000 1080

普通车削刀片

车削刀片型号预览

● 负角车削刀片



CNMG*-MT CMNG*-M CNMG*-GT CNMA* CNMG* CNMG*-GH CNMG*-BF CNMG*-BM CNMG*-S CNMG*-MA CNMG*-MS



DNMG*-MT DNMG*-GT DNMA* DNMG* DNMG*-BF DNMG*-BM DNMG*-S



SNMG*-MT SNMG*-M SNMG*-GT SNMA* SNMG* SNMG*-BF SNMG*-BM SNMG*-S SNMG*-MA SNMG*-MS



TNMG*-MT TNMG*-M TNMG*-GT TNMA* TNMG* TNMG*-BF TNMG*-BM TNMG*-S TNMG*-MA TNMG*-MS



VNMG*-MT VNMG*-GT VNMA* VNMG* VNMG*-BF VNMG*-BM



WNMG*-MT WNMG*-M WNMG*-GT WNMA* WNMG* WNMG*-GH WNMG*-BF WNMG*-BM

● 正角车削刀片



E-CCMT* E-DCMT-MV E-SCMT E-TCMT E-VBMT-MV



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灵山中路26号

Working Hours: 09:00 - 18:00

工作时间: 09:00 - 18:00