Solid Carbide End Mills
硬质合金铣刀

ZLY® 深圳市卓苹宇精密工具有限公司

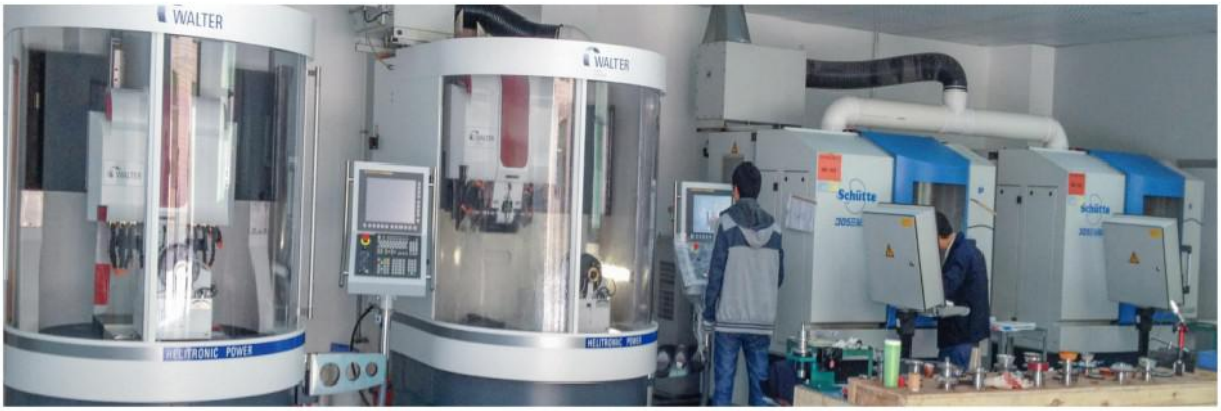
公司介绍

深圳市卓荦宇精密工具有限公司成立于 2006 年，是一家国内领先的自主研发，生产及销售高精密切削工具的国家级高新技术企业，拥有自己的品牌 ZLY-TOOLS。

公司秉承“顾客至上、精益求精”的经营理念，一切围绕客户需求提供及时有效的服务。主要生产切削工具，包括标准和非标准系列的铣刀，钻头，丝锥，镗刀，锯片，特殊刀具，枪钻，刀杆，刀粒等，可为您提供强大的售前售后服务。

卓荦宇刀具专注于切削工具行业将近二十年，客户遍及全球，并得到了客户的一致好评。我们的产品荣获多项国家专利，并广泛应用于消费电子，汽车，航空航天，医疗，模具以及其它加工制造领域。

公司质量方针是： 以品质求生存，以信誉求发展，持续满足顾客要求。







Company Profile

Founded in 2006, Shenzhen Zhuoluoyu Precision Tool Co., Ltd is a leading Chinese high-tech enterprise that independently develops, manufactures and sells high-precision cutting tools with its own brand - ZLY-TOOLS.

The main product is cutting tools, including standard and non-standard series of milling cutters, drills, taps, boring tools, saw blades, special tools, gun drills, tool holders, indexable inserts, etc. We can provide you strong pre-sales and after-sales service.

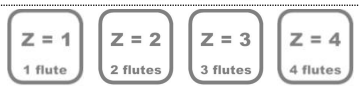
Zhuoluoyu Precision Tool has been focusing on the cutting tool industry for nearly 20 years and has been well accepted by customers all over the world. Our products have been awarded a number of national patents and are widely used in consumer electronics, automotive Industry, aerospace, medical, mold and other machining industries.

Our Quality Policy is: Survive by quality, develop by reputation, and continuously meet customer requirements.

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PB212	ball nose end mill, 2 flutes	4	二刃球头铣刀
PR214	corner radius end mill, 4 flutes	5	四刃圆鼻铣刀
For stainless steel up to HB 280			**HB280 以内不锈钢用**
MS204	square end mill, 4 flutes	7	四刃平底铣刀
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MS304	Square end mill for finishing, 4 flutes	10	四刃精铣平底铣刀
For Aluminum and Copper alloys, plastic			**铝、铜合金和非金属用**
NS102	square end mill, 2 flutes	11	二刃平底铣刀
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NS163	square end mill, good surface, 3 flutes	13	三刃高光平底铣刀
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NB102	ball nose end mill, 2 flutes	15	二刃球头铣刀
NR102	corner radius end mill, 2 flutes	16	二刃圆鼻铣刀
NR103	corner radius end mill, 3 flutes	17	三刃圆鼻铣刀
For hardened steel			**淬硬钢用**
HS164	square end mill, 4 flutes	18	四刃平底铣刀
HB162	ball nose end mill, 2 flutes	19	二刃球头铣刀
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Icon Illustration　图标说明

Helix angle		螺旋角
Coating		涂层
Number of teeth		刃数
Workpiece material		被加工材料
Edge prepared		刃部钝化
groove polished		沟槽抛光
Face milling		平面铣
Shoulder milling		方肩铣
Profile milling		仿形铣
Main application		主要应用
Minor application		次要应用
Roughing		粗加工
Pre finishing		半精加工
Finishing		精加工

Workpiece Material Group

Steel		钢材
Stainless Steel		不锈钢
Cast Iron		铸铁
Al,Cu,Mg alloys and other Non-fe metal		铝、铜、镁及合金，非金属
Heat resistant & Ti Alloys		高温合金、钛合金
Ultra Hard Steel		淬火钢

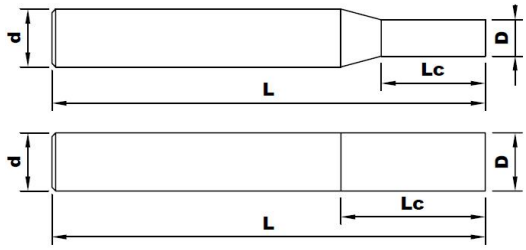
Series description / 系列介绍

Series 系列	Description 介绍	P	M	K	N	S	H
P 21 PS21 PB21 PR21	Suitable for steel and cast iron with hardness under HRC 45 With a heat resistant, durable, low-friction coating No dry machining; all coolant type permitted 适合于 HRC45 以内的钢材、铸铁的通用加工 涂层耐高温、耐磨损、摩擦系数低 不适合干切；但可适应所有冷却形式						
M 20 MS20 MB20 MR20	Universal machining of stainless steel Special treated edge leading to lower chip sticking Enough water or oil base coolant is necessary 适合不锈钢通用加工 刃口处理工艺可有效防止粘屑 需要水性或油性冷却液充分冷却						
M 30 MS30	For stainless steel milling with good surface Only for low chip volume side and face milling Enough water or oil base coolant is necessary 不锈钢精加工铣刀，仅提供方肩铣系列 适合小余量侧铣或面铣 需要水性或油性冷却液充分冷却						
N 10 NS10 NB10 NR10	Universal machining of Al, Cu, Mg alloys and non-metal materials Polished edge leading to a lower chip sticking Water base coolant recommended 铝、铜、镁合金及非金属材料的通用型加工 切削刃抛光处理，不容易粘屑 适合于水性冷却液						
N 16 NS16	Finishing of Al, Cu, Mg alloys Special structure decreases the machining chattering Aggressive rake angle and polished chip groove help to yield good workpiece surface 适合铝、铜、镁合金材料的方肩铣 前刀面和后背经过精心设计，有效防止震动 大前角和切削刃抛光设计，保证工件表面高质量						
H 16 HS16 HB16 HR16	Suitable for hardened steel with HRC 45 to 55 Micro-grain rod material with good toughness balances the tool life and machining safety 适合高硬度（HRC45-55）钢材加工 基材颗粒细，韧性好，实现高硬和高安全性加工的完美平衡 适合于油雾冷却或空气冷却						

PS214

Square End Mill, 4 flutes, for steel up to HRC45
Extra long version upon request

平底立铣刀，4 刃，加工 HRC45 以内钢材
加长型按需生产







D	≤12	>12
Tolerance/公差	0 -0.02	0 -0.03

Part Number 订货号	D	Lc	L	d	In Stock 库存
PS214-00501	0.5	1	50	4	●
PS214-00802	0.8	2	50	4	●
PS214-01003	1	3	50	4	●
PS214-01505	1.5	5	50	4	●
PS214-02006	2	6	50	4	●
PS214-02508	2.5	8	50	4	●
PS214-03009	3	9	50	4	●
PS214-04010	4	10	50	4	●
PS214-05013	5	13	50	6	●
PS214-06015	6	15	50	6	●
PS214-08020	8	20	60	8	●
PS214-10025	10	25	75	10	●
PS214-12030	12	30	75	12	●
PS214-03012-L075	3	12	75	4	◎
PS214-04015-L075	4	15	75	4	◎
PS214-06016-L075	6	16	75	6	◎
PS214-08020-L100	8	20	100	8	◎
PS214-10030-L100	10	30	100	10	◎
PS214-12035-L100	12	35	100	12	◎

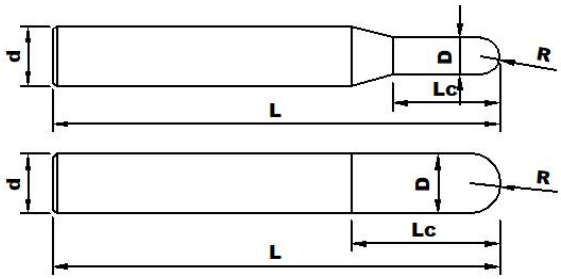
●In stock　◎Upon request　　●库存　◎按需生产

Workpiece Material / Application　工件材质 / 应用					
P	M	K	N	S	H
					

PB212

Ball nose end mill, 2 flutes, for steel up to HRC45
Extra long version upon request

球头立铣刀，2 刃，加工 HRC45 以内钢材
加长型可按需生产







R	⩽1.5	1.5＜R＜3	R⩾3
Tolerance/公差	0 -0.01	0 -0.015	0 -0.02

Part Number 订货号	D	R	Lc	L	d	In Stock 库存
PB212-01002	1	0.5	2	50	4	●
PB212-01503	1.5	0.75	3	50	4	●
PB212-02004	2	1	4	50	4	●
PB212-02505	2.5	1.25	5	50	4	●
PB212-03006	3	1.5	6	50	4	●
PB212-04008	4	2	8	50	4	●
PB212-05010	5	2.5	10	50	6	●
PB212-06012	6	3	12	50	6	●
PB212-08014	8	4	14	60	8	●
PB212-10018	10	5	18	75	10	●
PB212-12022	12	6	22	75	12	●
PB212-02004-L075	2	1	4	75	4	◎
PB212-03006-L075	3	1.5	6	75	4	◎
PB212-04008-L075	4	2	8	75	4	◎
PB212-06012-L075	6	3	12	75	6	◎
PB212-08014-L075	8	4	14	75	8	◎
PB212-08014-L100	8	4	14	100	8	◎
PB212-10018-L100	10	5	18	100	10	◎
PB212-12022-L100	12	6	22	100	12	◎

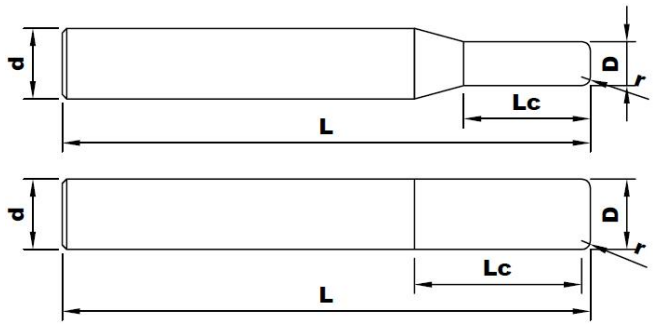
●In stock　◎Upon request　　●库存　◎按需生产

Workpiece Material / Application　工件材质 / 应用					
P	M	K	N	S	H
					

PR214

Corner Radius End Mill, 4 flutes, for steel up to HRC45
Extra long version see next page

圆鼻立铣刀，4 刃，加工 HRC45 以内钢材
加长型见下页







D	⩽12
Tolerance/公差	0 -0.02

Part Number 订货号	D	r	Lc	L	d	In Stock 库存
PR214-01002	1	0.2	2	50	4	●
PR214-01502	1.5	0.2	5	50	4	●
PR214-02002	2	0.2	6	50	4	●
PR214-03002	3	0.2	9	50	4	●
PR214-03005	3	0.5	9	50	4	●
PR214-04002	4	0.2	11	50	4	●
PR214-04005	4	0.5	11	50	4	●
PR214-06005	6	0.5	16	50	6	●
PR214-06010	6	1	16	50	6	●
PR214-08005	8	0.5	20	60	8	●
PR214-08010	8	1	20	60	8	●
PR214-01005	10	0.5	25	75	10	●
PR214-01010	10	1	25	75	10	●
PR214-01205	12	0.5	30	75	12	●
PR214-01210	12	1	30	75	12	●

●In stock　◎Upon request　　●库存　◎按需生产

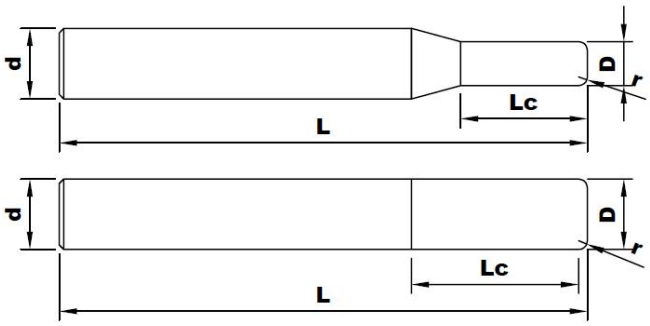
Workpiece Material / Application　工件材质 / 应用					
P	M	K	N	S	H
					

PR214-L - Extra Long

加长型

Corner Radius End Mill, 4 flutes, for steel up to HRC45, Extra-Long version

圆鼻立铣刀，4 刃，加工 HRC45 以内钢材，加长







D	≤12
Tolerance/公差	0 -0.02

Part Number 订货号	D	r	Lc	L	d	In Stock 库存
PR214-03005-L075	3	0.5	9	75	4	◎
PR214-04005-L075	4	0.5	11	75	4	◎
PR214-06005-L075	6	0.5	16	75	6	◎
PR214-06010-L075	6	1	16	75	6	◎
PR214-08005-L100	8	0.5	20	100	8	◎
PR214-08010-L100	8	1	20	100	8	◎
PR214-10005-L100	10	0.5	25	100	10	◎
PR214-10010-L100	10	1	25	100	10	◎
PR214-12005-L100	12	0.5	30	100	12	◎
PR214-12010-L100	12	1	30	100	12	◎

●In stock ◎Upon request

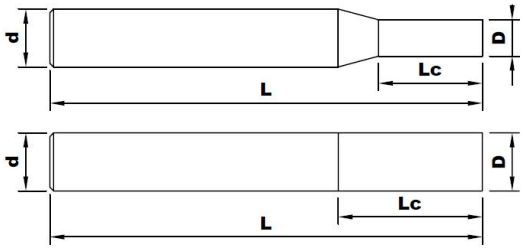
●库存 ◎按需生产

Workpiece Material / Application 工件材质 / 应用					
P	M	K	N	S	H

MS204

For stainless steel up to HB280, 4 flutes
Short flute version available

HB280 以内不锈钢专用立铣刀，4 刃，通用型
短刃型可供应







D	≤12
Tolerance/公差	0 -0.02

Part Number 订货号	D	Lc	L	d	In Stock 库存
MS204-00501	0.5	1	50	4	●
MS204-00802	0.8	2	50	4	●
MS204-01003	1	3	50	4	●
MS204-01504	1.5	4	50	4	●
MS204-02006	2	6	50	4	●
MS204-02508	2.5	8	50	4	●
MS204-03009	3	9	50	4	●
MS204-04010	4	10	50	4	●
MS204-05013	5	13	50	5	●
MS204-06015	6	15	50	6	●
MS204-08020	8	20	60	8	●
MS204-10025	10	25	75	10	●
MS204-12030	12	30	75	12	●
Short flute version see below					以下为短刃型
MS204-02004	2	4	50	4	◎
MS204-03004	3	4	50	4	◎
MS204-04006	4	6	50	4	◎
MS204-06009	6	9	50	6	◎
MS204-08010	8	10	60	8	◎
MS204-10012	10	12	75	10	◎
MS204-12016	12	16	75	12	◎

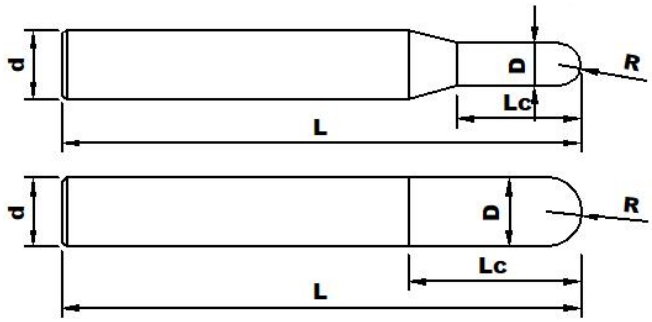
●In stock　◎Upon request　　●库存　◎按需生产

Workpiece Material / Application　工件材质 / 应用					
P	M	K	N	S	H
▽	▽	▽		▽	

MB202

For stainless steel up to HB280, 2 flutes, universal machining

HB280 以内不锈钢专用球头铣刀，2 刃，通用型







R	≤1.5	1.5＜R＜3	R≥3
Tolerance/公差	0 -0.01	0 -0.015	0 -0.02

Part Number 订货号	D	R	Lc	L	d	In Stock 库存
MB202-01002	1	0.5	2	50	4	●
MB202-01503	1.5	0.75	3	50	4	●
MB202-02004	2	1	4	50	4	●
MB202-02505	2.5	1.25	5	50	4	●
MB202-03006	3	1.5	6	50	4	●
MB202-04008	4	2	8	50	4	●
MB202-05010	5	2.5	10	50	6	●
MB202-06012	6	3	12	50	6	●
MB202-08014	8	4	14	60	8	●
MB202-10018	10	5	18	75	10	●
MB202-12022	12	6	22	75	12	●

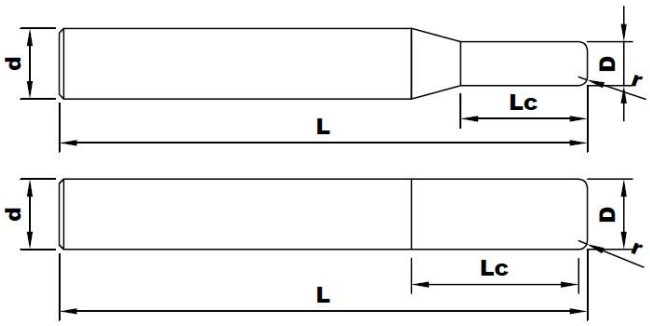
●In stock　◎Upon request　　●库存　◎按需生产

Workpiece Material / Application　工件材质 / 应用					
P	M	K	N	S	H
▽	▽	▽		▽	

MR204

Corner Radius End Mill, 4 flutes, for stainless steel up to HB280

圆鼻立铣刀，4 刃，加工 HB280 以内不锈钢







D	≤12
Tolerance/公差	0 -0.02

Part Number 订货号	D	r	Lc	L	d	In Stock 库存
MR204-01002	1	0.2	3	50	4	●
MR204-01502	1.5	0.2	5	50	4	●
MR204-02002	2	0.2	5	50	4	●
MR204-03002	3	0.2	9	50	4	●
MR204-03003	3	0.3	9	50	4	●
MR204-03005	3	0.5	9	50	4	●
MR204-04002	4	0.2	10	50	4	●
MR204-04005	4	0.5	10	50	4	●
MR204-06005	6	0.5	15	50	6	●
MR204-06010	6	1	15	50	6	●
MR204-08005	8	0.5	20	60	8	●
MR204-08010	8	1	20	60	8	●
MR204-10005	10	0.5	25	75	10	●
MR204-10010	10	1	25	75	10	●
MR204-12005	12	0.5	30	75	12	●
MR204-12010	12	1	30	75	12	●

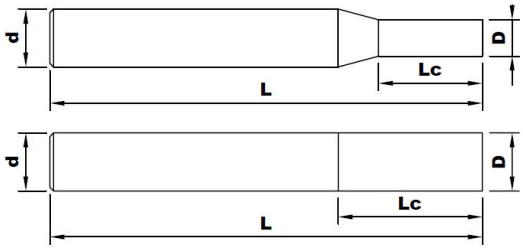
●In stock　◎Upon request　　●库存　◎按需生产

Workpiece Material / Application　工件材质 / 应用					
P	M	K	N	S	H
					

MS304

For stainless steel up to HB280, 4 flutes
For Low-volume Side wall and face milling
Extra short version also available in stock

HB280 以内不锈钢专用立铣刀，4 刃
适合小余量侧铣和面铣
短刃型为标准库存







D	≤12
Tolerance/公差	0 -0.02

Part Number 订货号	D	Lc	L	d	In Stock 库存
MS304-00501	0.5	1	50	4	●
MS304-00802	0.8	2	50	4	●
MS304-00103	1	3	50	4	●
MS304-01504	1.5	4	50	4	●
MS304-00206	2	6	50	4	●
MS304-02508	2.5	8	50	4	●
MS304-03009	3	9	50	4	●
MS304-04010	4	10	50	4	●
MS304-05013	5	13	50	6	●
MS304-06015	6	15	50	6	●
MS304-08020	8	20	60	8	●
MS304-10025	10	25	75	10	●
MS304-12030	12	30	75	12	●
Extra short version see below			以下为短刃型		
MS304-01002	1	2	50	4	●
MS304-01503	1.5	3	50	4	●
MS304-02004	2	4	50	4	●
MS304-03004	3	4	50	4	●
MS304-04006	4	6	50	4	●

●In stock　◎Upon request　　●库存　◎按需生产

Workpiece Material / Application　工件材质 / 应用					
P	M	K	N	S	H
					

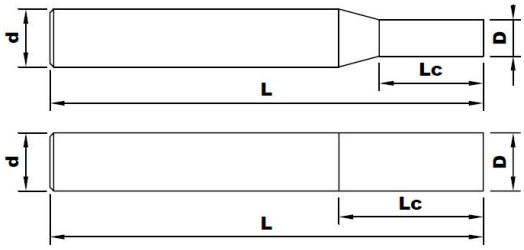
NS102

Square End Mill, 2 flutes, for Non-Ferrous metal

Extra long version upon request

平底立铣刀，2 刃，加工铝、铜合金

加长型按需生产







D	≤12
Tolerance/公差	0 -0.02

Part Number 订货号	D	Lc	L	d	In Stock 库存
NS102-01003	1	3	50	4	●
NS102-01504	1.5	4	50	4	●
NS102-02006	2	6	50	4	●
NS102-02508	2.5	8	50	4	●
NS102-03009	3	9	50	4	●
NS102-04011	4	11	50	4	●
NS102-05013	5	13	50	6	●
NS102-06015	6	15	50	6	●
NS102-08020	8	20	60	8	●
NS102-10025	10	25	75	10	●
NS102-12030	12	30	75	12	●
NS102-02008-L075	2	8	75	4	◎
NS102-03010-L075	3	10	75	4	◎
NS102-04012-L075	4	12	75	4	◎
NS102-06016-L075	6	16	75	6	◎
NS102-08020-L100	8	20	100	8	◎
NS102-10025-L100	10	25	100	10	◎
NS102-12030-L100	12	30	100	12	◎

●In stock　◎Upon request　　●库存　◎按需生产

Workpiece Material / Application　工件材质 / 应用					
P	M	K	N	S	H
					

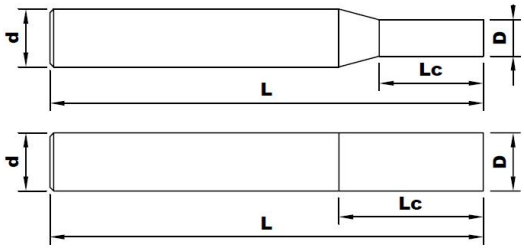
NS103

Square End Mill, 3 flutes, for Non-Ferrous metal

Extra long version upon request

平底立铣刀，3 刃，加工铝、铜合金

加长型按需生产







D	≤12
Tolerance/公差	0 -0.02

Part Number 订货号	D	Lc	L	d	In Stock 库存
NS103-01003	1	3	50	4	●
NS103-01504	1.5	4	50	4	●
NS103-02006	2	6	50	4	●
NS103-02508	2.5	8	50	4	●
NS103-03009	3	9	50	4	●
NS103-04011	4	11	50	4	●
NS103-05013	5	13	50	6	●
NS103-06015	6	15	50	6	●
NS103-08020	8	20	60	8	●
NS103-10025	10	25	75	10	●
NS103-12030	12	30	75	12	●
NS102-02008-L075	2	8	75	4	◎
NS102-03010-L075	3	10	75	4	◎
NS102-04012-L075	4	12	75	4	◎
NS102-06016-L075	6	16	75	6	◎
NS102-08020-L100	8	20	100	8	◎
NS102-10025-L100	10	25	100	10	◎
NS102-12030-L100	12	30	100	12	◎

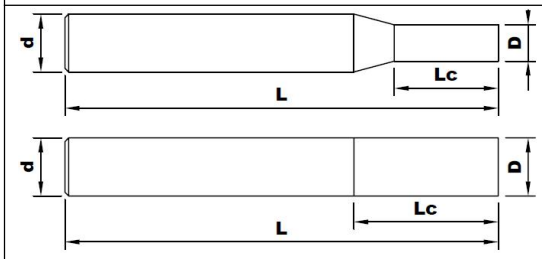
●In stock　◎Upon request　　●库存　◎按需生产

Workpiece Material / Application　工件材质 / 应用					
P	M	K	N	S	H
					

NS163

Square End Mill, 3 flutes, for Non-Ferrous metal, good surface

平底立铣刀，3 刃，加工铝、铜合金，表面粗糙度好





Z = 3 3 flutes　40°　ALU Si≤8%　ALU Si 8-12%　Cu

D	≤10	>10
Tolerance/公差	0 -0.01	0 -0.02

Part Number 订货号	D	Lc	L	d	In Stock 库存
NS164-01003	1	3	50	4	●
NS164-01504	1.5	4	50	4	●
NS164-02006	2	6	50	4	●
NS164-02508	2.5	8	50	4	●
NS164-03009	3	9	50	4	●
NS164-04010	4	10	50	4	●
NS164-05013	5	13	50	6	●
NS164-06015	6	15	50	6	●
NS164-08020	8	20	60	8	●
NS164-10025	10	25	75	10	●
NS164-12030	12	30	75	12	●

●In stock　◎Upon request　　●库存　◎按需生产

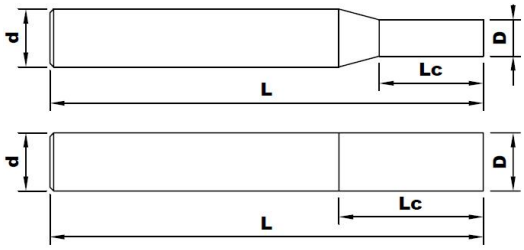
Workpiece Material / Application　工件材质 / 应用

P	M	K	N	S	H

NS164

Square End Mill, 4 flutes, for Non-Ferrous metal, good surface

平底立铣刀，4 刃，加工铝、铜合金，表面粗糙度好







D	≤10	>10
Tolerance/公差	0 -0.01	0 -0.02

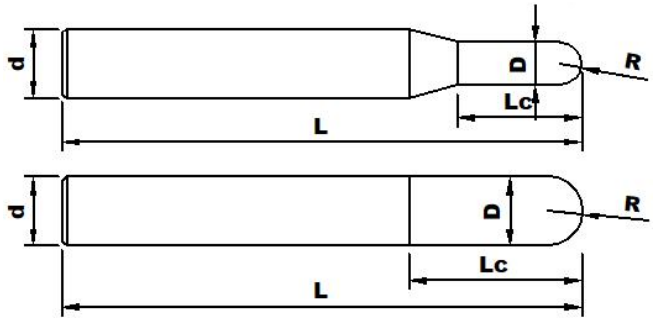
Part Number 订货号	D	Lc	L	d	In Stock 库存
NS164-01003	1	3	50	4	●
NS164-01504	1.5	4	50	4	●
NS164-02006	2	6	50	4	●
NS164-02508	2.5	8	50	4	●
NS164-03009	3	9	50	4	●
NS164-04010	4	10	50	4	●
NS164-05013	5	13	50	6	●
NS164-06015	6	15	50	6	●
NS164-08020	8	20	60	8	●
NS164-10025	10	25	75	10	●
NS164-12030	12	30	75	12	●

●In stock ◎Upon request ●库存 ◎按需生产

Workpiece Material / Application 工件材质 / 应用					
P	M	K	N	S	H

NB102

Ball nose end mill, 2 flutes, for Non-Ferrous metal　球头立铣刀，2 刃，加工铝、铜合金







R	≤1.5	1.5＜R＜3	R≥3
Tolerance/公差	0 -0.01	0 -0.015	0 -0.02

Part Number 订货号	D	R	Lc	L	d	In Stock 库存
NB102-01002	1	0.5	2	50	4	●
NB102-02004	2	1	4	50	4	●
NB102-03006	3	1.5	6	50	4	●
NB102-04008	4	2	8	50	4	●
NB102-05010	5	2.5	10	50	6	●
NB102-06012	6	3	12	50	6	●
NB102-08014	8	4	14	60	8	●
NB102-10018	10	5	18	75	10	●
NB102-12022	12	6	22	75	12	●

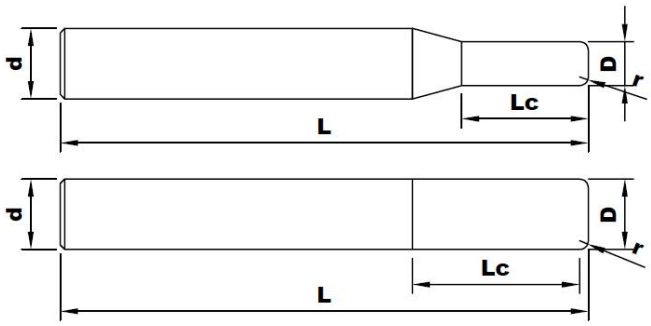
●In stock　◎Upon request　●库存　◎按需生产

Workpiece Material / Application　工件材质 / 应用					
P	M	K	N	S	H

NR102

Corner Radius End Mill, 2 flutes, for Non-Ferrous metal
Extra long version upon request

圆鼻立铣刀，2 刃，加工铝、铜合金
加长型按需生产







D	≤12
Tolerance/公差	0 -0.02

Part Number 订货号	D	R	Lc	L	d	In Stock 库存
NR102-02002	2	0.2	6	50	4	●
NR102-03002	3	0.2	9	50	4	●
NR102-03005	3	0.5	9	50	4	●
NR102-04002	4	0.2	11	50	4	●
NR102-04005	4	0.5	11	50	4	●
NR102-05005	5	0.5	13	50	6	●
NR102-06005	6	0.5	16	50	6	●
NR102-08005	8	0.5	20	60	8	●
NR102-10005	10	0.5	25	75	10	●
NR102-12005	12	0.5	30	75	12	●
Extra long version see below						以下为加长型
NR102-06005-L075	6	0.5	16	75	6	◎
NR102-06010-L075	6	1	16	75	6	◎
NR102-08005-L100	8	0.5	20	100	8	◎
NR102-08010-L100	8	1	20	100	8	◎
NR102-10005-L100	10	0.5	25	100	10	◎
NR102-10010-L100	10	1	25	100	10	◎
NR102-12005-L100	12	0.5	30	100	12	◎
NR102-12010-L100	12	1	30	100	12	◎

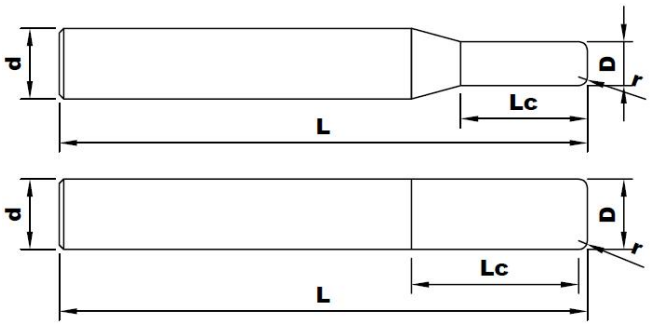
●In stock　◎Upon request　　●库存　◎按需生产

Workpiece Material / Application　工件材质 / 应用					
P	M	K	N	S	H

NR103

Corner Radius End Mill, 3 flutes, for Non-Ferrous metal
Extra long version upon request

圆鼻立铣刀，3 刃，加工铝、铜合金
加长型按需生产







D	≤12
Tolerance/公差	0 -0.02

Part Number 订货号	D	R	Lc	L	d	In Stock 库存
NR103-02002	2	0.2	6	50	4	●
NR103-03002	3	0.2	9	50	4	●
NR103-03005	3	0.5	9	50	4	●
NR103-04002	4	0.2	11	50	4	●
NR103-04005	4	0.5	11	50	4	●
NR103-05005	5	0.5	13	50	6	●
NR103-06005	6	0.5	16	50	6	●
NR103-08005	8	0.5	20	60	8	●
NR103-10005	10	0.5	25	75	10	●
NR103-12005	12	0.5	30	75	12	●
Extra long version see below						以下为加长型
NR103-06005-L075	6	0.5	16	75	6	◎
NR103-06010-L075	6	1	16	75	6	◎
NR103-08005-L100	8	0.5	20	100	8	◎
NR103-08010-L100	8	1	20	100	8	◎
NR103-10005-L100	10	0.5	25	100	10	◎
NR103-10010-L100	10	1	25	100	10	◎
NR103-12005-L100	12	0.5	30	100	12	◎
NR103-12010-L100	12	1	30	100	12	◎

●In stock　◎Upon request　　●库存　◎按需生产

Workpiece Material / Application　工件材质 / 应用					
P	M	K	N	S	H

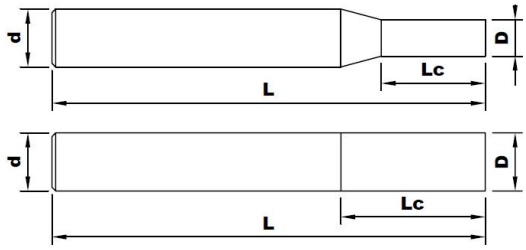
HS164

Square End Mill, 4 flutes, for steel HRC45-58

Extra long version upon request

平底立铣刀，4 刃，加工 HRC45-58 以内钢材

加长型按需生产







D	≤12
Tolerance/公差	0 -0.02

Part Number 订货号	D	Lc	L	d	In Stock 库存
HS164-00501	0.5	1	50	4	◎
HS164-00802	0.8	2	50	4	◎
HS164-01003	1	3	50	4	●
HS164-01504	1.5	4	50	4	●
HS164-02006	2	6	50	4	●
HS164-02508	2.5	8	50	4	●
HS164-03009	3	9	50	4	●
HS164-04010	4	10	50	4	●
HS164-05013	5	13	50	6	●
HS164-06015	6	15	50	6	●
HS164-08020	8	20	60	8	●
HS164-10025	10	25	75	10	●
HS164-12030	12	30	75	12	●
HS164-03012-L075	3	12	75	4	◎
HS164-04015-L075	4	15	75	4	◎
HS164-06020-L100	6	20	100	6	●
HS164-08025-L100	8	25	100	8	●
HS164-10030-L100	10	30	100	10	●
HS164-12035-L100	12	35	100	12	●

●In stock ◎Upon request

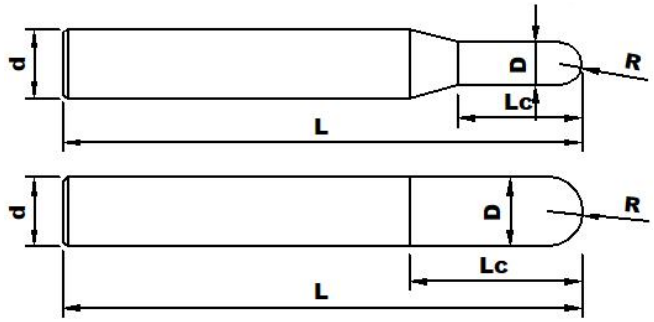
●库存 ◎按需生产

Workpiece Material / Application 工件材质 / 应用					
P	M	K	N	S	H

HB162

Ball nose end mill, 2 flutes, for steel HRC45~58

球头立铣刀，2 刃，加工 HRC45~58 的钢材







R	≤1.5	1.5＜R＜3	R≥3
Tolerance/公差	0 -0.01	0 -0.015	0 -0.02

Part Number 订货号	D	R	Lc	L	d	In Stock 库存
HB162-01002	1	0.5	2	50	4	●
HB162-01503	1.5	0.75	3	50	4	●
HB162-02004	2	1	4	50	4	●
HB162-02505	2.5	1.25	5	50	4	●
HB162-03006	3	1.5	6	50	4	●
HB162-04008	4	2	8	50	4	●
HB162-05010	5	2.5	10	50	6	●
HB162-06012	6	3	12	50	6	●
HB162-08014	8	4	14	60	8	●
HB162-10018	10	5	18	75	10	●
HB162-12022	12	6	22	75	12	●
HB162-04008-L075	4	2	8	75	4	◎
HB162-06012-L100	6	3	12	100	6	◎
HB162-08014-L100	8	4	14	100	8	◎
HB162-10018-L100	10	5	18	100	10	◎
HB162-12024-L100	12	6	24	100	12	◎

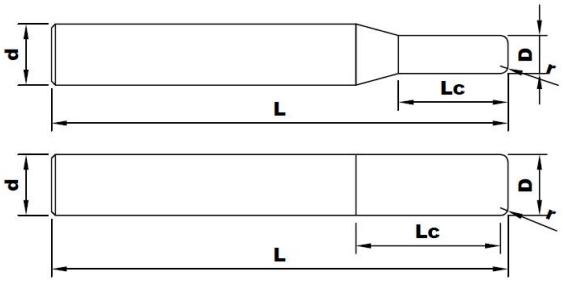
●In stock　◎Upon request　　●库存　◎按需生产

Workpiece Material / Application　工件材质 / 应用					
P	M	K	N	S	H

HR164

Corner Radius End Mill, 4 flutes, for steel HRC 45~55
Extra long version see next page

圆鼻立铣刀，4 刃，加工 HRC45~55 的高硬钢材
加长型见下页







D	≤12
Tolerance/公差	0 -0.02

Part Number 订货号	D	R	Lc	L	d	In Stock 库存
HR164-01002	1	0.2	3	50	4	●
HR164-01502	1.5	0.2	5	50	4	●
HR164-02002	2	0.2	6	50	4	●
HR164-02005	2	0.5	6	50	4	●
HR164-03002	3	0.2	9	50	4	●
HR164-03005	3	0.5	9	50	4	●
HR164-04002	4	0.2	10	50	4	●
HR164-04005	4	0.5	10	50	4	●
HR164-04010	4	1	10	50	4	●
HR164-06002	6	0.2	15	50	6	●
HR164-06005	6	0.5	15	50	6	●
HR164-06010	6	1	15	50	6	●
HR164-08005	8	0.5	20	60	8	●
HR164-08010	8	1	20	60	8	●
HR164-10005	10	0.5	25	75	10	●
HR164-10010	10	1	25	75	10	●
HR164-10020	10	2	25	75	10	●
HR164-12005	12	0.5	30	75	12	●
HR164-12010	12	1	30	75	12	●
HR164-12020	12	2	30	75	12	●

●In stock ◎Upon request

●库存 ◎按需生产

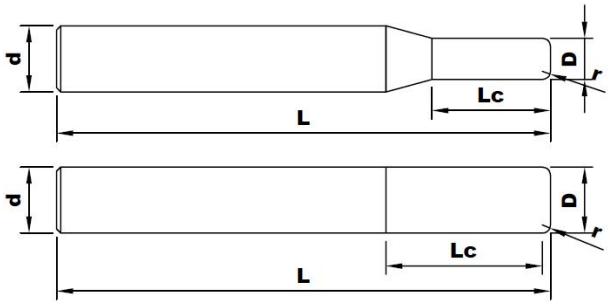
Workpiece Material / Application 工件材质 / 应用					
P	M	K	N	S	H

HR164 - Extra Long

加长型

Corner Radius End Mill, 4 flutes, for steel HRC 45~55

圆鼻立铣刀，4 刃，加工 HRC45~55 的高硬钢材







D	≤12
Tolerance/公差	0 -0.02

Part Number 订货号	D	R	Lc	L	d	In Stock 库存
HR164-04005-L075	4	0.5	10	75	4	●
HR164-06005-L075	6	0.5	15	75	6	●
HR164-06010-L075	6	1	15	75	6	◎
HR164-08005-L100	8	0.5	20	100	8	●
HR164-08010-L100	8	1	20	100	8	◎
HR164-10005-L100	10	0.5	25	100	10	●
HR164-10010-L100	10	1	25	100	10	◎
HR164-12005-L100	12	0.5	30	100	12	●
HR164-12010-L100	12	1	30	100	12	◎

●In stock ◎Upon request

●库存 ◎按需生产

Workpiece Material / Application 工件材质 / 应用					
P	M	K	N	S	H

Enquiry form for special tool without step

Please copy, complete, and return

Enquiry☐　Order☐　No. Of cutters:_____Desired delivery date:_____week(s)
Company:_____　Contact person:_____
Phone/Fax:_____　E-mail:_____

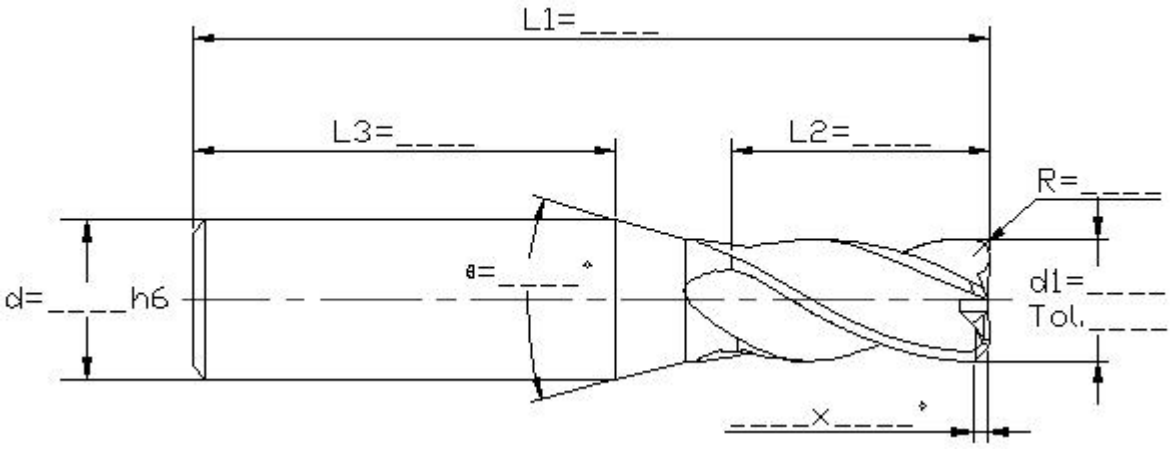
Please describe the machining and the desired special tool:

Machining:	☐Circumgerential milling	**Material to be machined:**	
	☐Slotting	☐unalloyed steel	☐Aluminium(Si-content > 12%
	☐Face milling	☐cast steel	☐Aluminium(Si-content < 12%
	☐Copy milling	☐alloyed steel	☐Copper
	☐Undersize milling	☐Inox	☐Brass
	☐Plunging	☐stainless and acid-resistant steel	☐Bronze
Application:	☐Roughing	☐grey cast iron	☐Titanium alloys
	☐Pre-finishing	☐alloyed grey cast iron	☐Nickel alloys
	☐Finishing	☐Spheroidal graphite cast iron	☐Chilled cast iron
Type of machining:	☐wet	☐Vermicular graphite cast iron	☐Hardened steel
	☐dry	☐Malleable cast iron	☐_____
	☐MQL	**Hardness(HRC,HB,etc.):**_____	**Standard:**_____
Coolant Supply:	☐External coolant	**Tensile strength(N/mm²):**_____	**Standard designation:**_____
	☐Internal coolant	**Type designation(e.g.SCM10，NAK80，if known):**_____	

Cutting direction: ☐Right　☐left
(unless specified, otherwise we assume right-cutting, right-hand helix)

Helix:☐Right　☐left
Helix angle:_____°

Coating: ☐TiN　☐TiCN　Uncoated　**No. Of teeth:**☐Z=1　☐Z=2　☐Z=3　☐Z=4　☐Z=6　☐Z=8
☑TiAlN　☐AlTiN　☐_____　**Shank type:** ☐HA(DIN6535)　☐HB(DIN6535)



Completed by:_____　**Date:**_____
(Signature)

无台阶非标铣刀订购、询价图

请复印并填写后发给我们，其他工作交给我们，谢谢！

订购☐　询价☐　刀具数量：_____　希望交期：_____个工作日
公司名：_____　联系人：_____
电话/传真：_____　手机：_____E-mail:_____

刀具应用信息:

加工方式：
☐铣侧面
☐铣平面
☐铣槽
☐仿形铣
☐精铣
☐插铣

粗/精加工用:
☐粗加工
☐半精加工
☐精加工

冷却方式:
☐湿式加工
☐干式加工
☐MQL(微量润滑)

Coolant Supply:
☐外部冷却
☐内部冷却

被加工材质信息：
☐非合金钢
☐铸钢
☐合金钢
☐不锈钢
☐灰口铸铁
☐球墨铸铁
☐蠕墨铸铁
☐可锻铸铁
☐_____

☐铝合金（Si 含量 12%以上）
☐铝合金（Si 含量 12%以下）
☐纯铜、紫铜
☐黄铜
☐钛合金
☐镍基合金及其他高温合金
☐冷硬铸铁
☐淬火钢

硬度(如 HRC,HB 硬度)：_____　**材料标准：**_____
抗拉强度(N/mm²)：_____　**标准说明：**_____
材料牌号(如 HT250, NAK80，TC4 等): _____

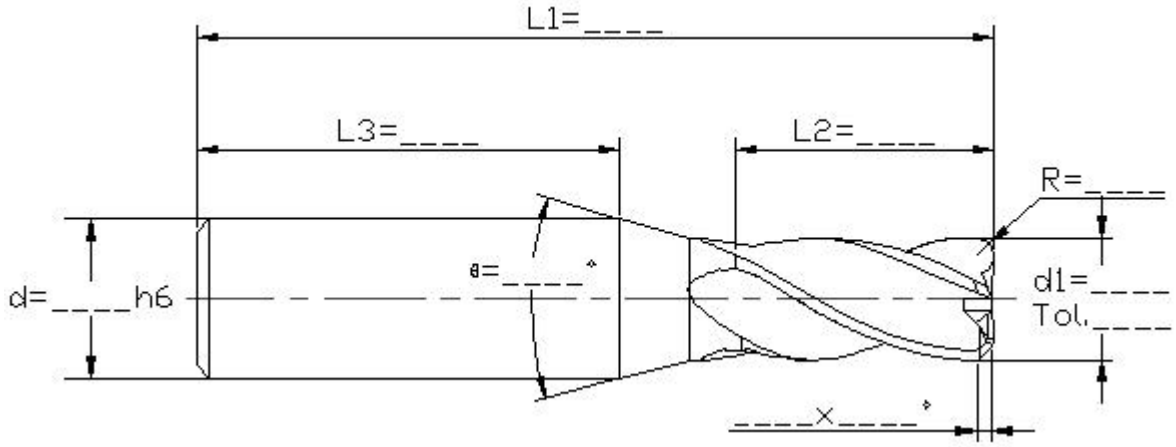
切削方向： ☐右切　☐左切
(如无说明，均采用右旋、右切）

螺旋方向：☐右旋　☐左旋
螺旋角：_____°

涂层（如需注明）: ☐TiN　☐TiCN　☐Uncoated　☐TiAlN　☐AlTiN　☐_____

切削刃数：☐Z=1　☐Z=2　☐Z=3　☐Z=4　☐Z=6　☐Z=8

柄部形式：☐HA(DIN6535 直圆柄)　☐HB(DIN6535 削平柄)



填写人：_____　**日期：**_____
(签名)

Enquiry form for special tool with step

Please copy, complete, and return

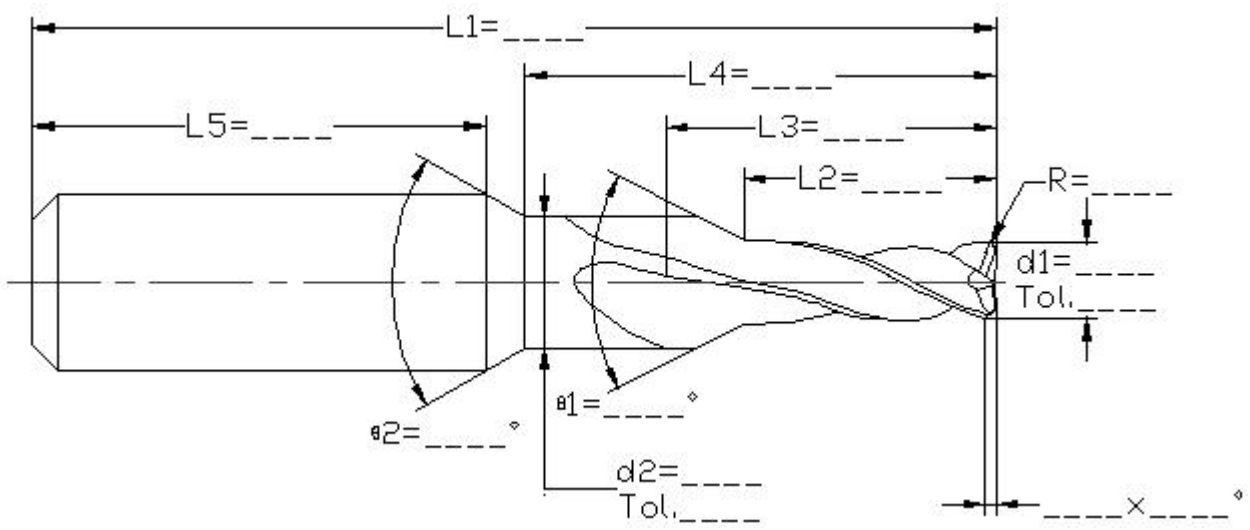
Enquiry☐　Order☐　No. Of cutters:_____Desired delivery date:_____week(s)
Company:_____　Contact person:_____
Phone/Fax:_____　E-mail:_____

Please describe the machining and the desired special tool:

Machining:	☐Circumgerential milling	**Material to be machined:**	
	☐Slotting	☐unalloyed steel	☐Aluminium(Si-content > 12%
	☐Face milling	☐cast steel	☐Aluminium(Si-content < 12%
	☐Copy milling	☐alloyed steel	☐Copper
	☐Undersize milling	☐Inox	☐Brass
	☐Plunging	☐stainless and acid-resistant steel	☐Bronze
Application:	☐Roughing	☐grey cast iron	☐Titanium alloys
	☐Pre-finishing	☐alloyed grey cast iron	☐Nickel alloys
	☐Finishing	☐Spheroidal graphite cast iron	☐Chilled cast iron
Type of machining:	☐wet	☐Vermicular graphite cast iron	☐Hardened steel
	☐dry	☐Malleable cast iron	☐_____
	☐MQL	**Hardness(HRC,HB,etc.):**_____	**Standard:**_____
Coolant Supply:	☐External coolant	**Tensile strength(N/mm²):**_____	**Standard designation:**_____
	☐Internal coolant	**Type designation(e.g.SCM10，NAK80，if known):**_____	

Cutting direction: ☐Right　☐left　**Helix:**☐Right　☐left
(unless specified, otherwise we assume right-cutting, right-hand helix)　**Helix angle:**_____°

Coating: ☐TiN　☐TiCN　Uncoated　**No. Of teeth:**☐Z=1　☐Z=2　☐Z=3　☐Z=4　☐Z=6　☐Z=8
☐TiAlN　☐AlTiN　☐_____　**Shank type:** ☐HA(DIN6535)　☐HB(DIN6535)



Completed by:_____　**Date:**_____
(Signature)

非标台阶铣刀订购、询价图

请复印并填写后发给我们，谢谢！

订购☐　询价☐　刀具数量：_____　希望交期：_____个工作日
公司名：_____　联系人：_____
电话/传真：_____　手机：_____E-mail:_____

刀具应用信息:

加工方式：
☐铣侧面
☐铣平面
☐铣槽
☐仿形铣
☐精铣
☐插铣

粗/精加工用:
☐粗加工
☐半精加工
☐精加工

冷却方式:
☐湿式加工
☐干式加工
☐MQL(微量润滑)

Coolant Supply:
☐外部冷却
☐内部冷却

被加工材质信息：
☐非合金钢
☐铸钢
☐合金钢
☐不锈钢
☐灰口铸铁
☐球墨铸铁
☐蠕墨铸铁
☐可锻铸铁
☐_____

☐铝合金（Si 含量 12%以上）
☐铝合金（Si 含量 12%以下）
☐纯铜、紫铜
☐黄铜
☐钛合金
☐镍基合金及其他高温合金
☐冷硬铸铁
☐淬火钢

硬度(如 HRC,HB 硬度)：_____　**材料标准：**_____
抗拉强度(N/mm²)：_____　**标准说明：**_____
材料牌号(如 HT250, NAK80，TC4 等): _____

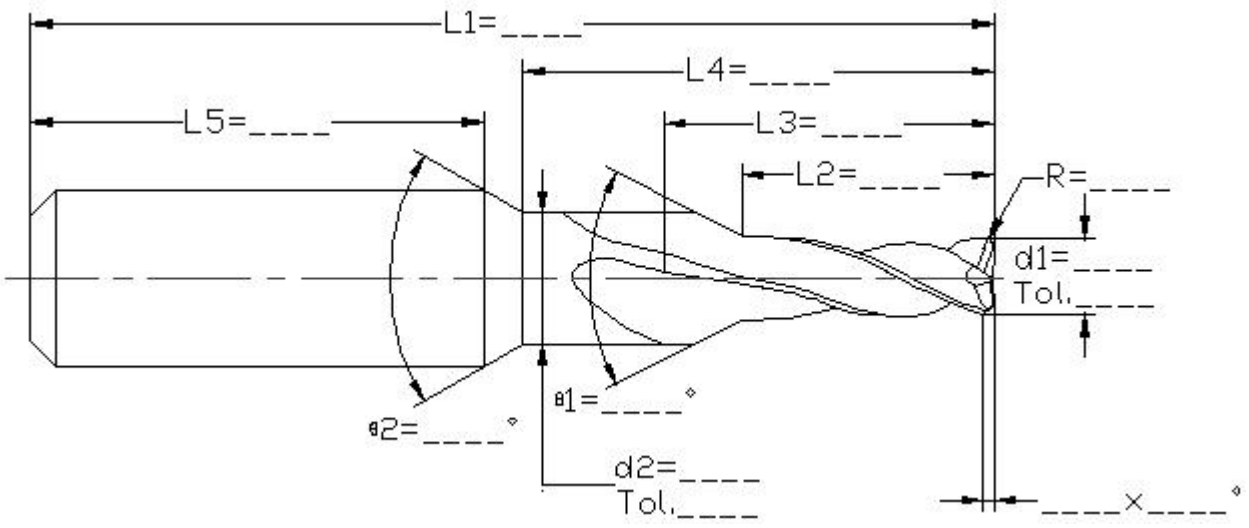
切削方向： ☐右切　☐左切
(如无说明，均采用右旋、右切）

螺旋方向：☐右旋　☐左旋
螺旋角：_____°

涂层（如需注明）: ☐TiN　☐TiCN　☐Uncoated　☐TiAlN　☐AlTiN　☐_____

切削刃数：☐Z=1　☐Z=2　☐Z=3　☐Z=4　☐Z=6　☐Z=8

柄部形式：☐HA(DIN6535 直圆柄)　☐HB(DIN6535 削平柄)



填写人：_____　**日期：**_____
（签名）

Enquiry form for T slot milling cutter

Please copy, complete, and return

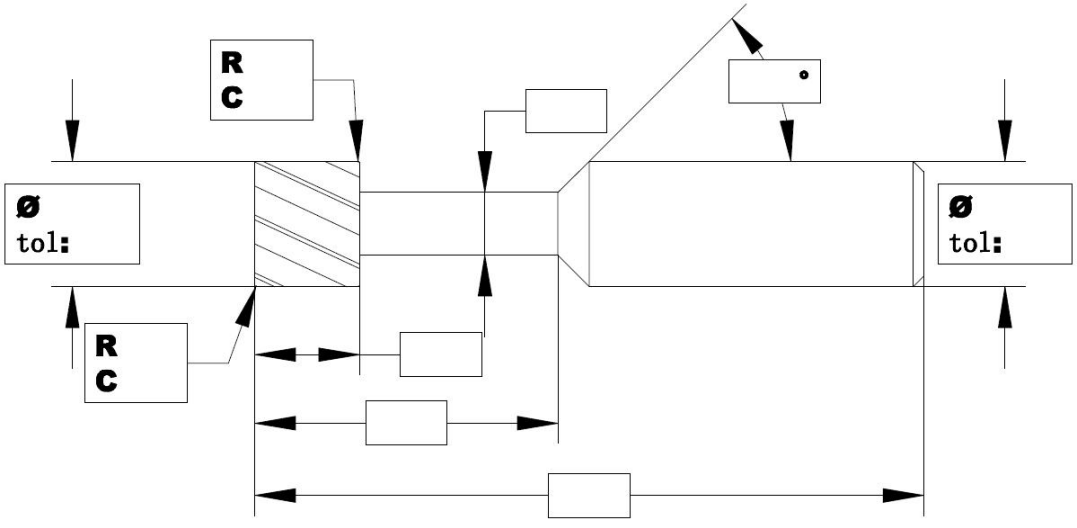
Enquiry☐　Order☐　No. Of cutters:_____Desired delivery date:_____week(s)
Company:_____　Contact person:_____
Phone/Fax:_____　E-mail:_____

Please describe the machining and the desired special tool:

Machining:	☐Circumgerential milling	**Material to be machined:**	
	☐Slotting	☐unalloyed steel	☐Aluminium(Si-content > 12%
	☐Face milling	☐cast steel	☐Aluminium(Si-content < 12%
	☐Copy milling	☐alloyed steel	☐Copper
	☐Undersize milling	☐Inox	☐Brass
	☐Plunging	☐stainless and acid-resistant steel	☐Bronze
Application:	☐Roughing	☐grey cast iron	☐Titanium alloys
	☐Pre-finishing	☐alloyed grey cast iron	☐Nickel alloys
	☐Finishing	☐Spheroidal graphite cast iron	☐Chilled cast iron
Type of machining:	☐wet	☐Vermicular graphite cast iron	☐Hardened steel
	☐dry	☐Malleable cast iron	☐_____
	☐MQL	**Hardness(HRC,HB,etc.):**_____	**Standard:**_____
Coolant Supply:	☐External coolant	**Tensile strength(N/mm²):**_____	**Standard designation:**_____
	☐Internal coolant	**Type designation(e.g.SCM10，NAK80，if known):**_____	

Cutting direction: ☐Right　☐left　**Helix:**☐Right　☐left
(unless specified, otherwise we assume right-cutting, right-hand helix)　**Helix angle:**_____°

Coating: ☐TiN　☐TiCN　Uncoated　**No. Of teeth:**☐Z=1　☐Z=2　☐Z=3　☐Z=4　☐Z=6　☐Z=8
☐TiAlN　☐AlTiN　☐_____　**Shank type:** ☐HA(DIN6535)　☐HB(DIN6535)



Completed by:_____　**Date:**_____
(Signature)

T 形槽铣刀订购、询价图

请复印并填写后发给我们，谢谢！

订购☐　询价☐　刀具数量：_____　希望交期：_____个工作日
公司名：_____　联系人：_____
电话/传真：_____　手机：_____E-mail:_____

刀具应用信息:

加工方式：
☐铣侧面
☐铣平面
☐铣槽
☐仿形铣
☐精铣
☐插铣

粗/精加工用:
☐粗加工
☐半精加工
☐精加工

冷却方式:
☐湿式加工
☐干式加工
☐MQL(微量润滑)

Coolant Supply:
☐外部冷却
☐内部冷却

被加工材质信息：

☐非合金钢	☐铸钢	☐铝合金（Si 含量 12%以上）
☐合金钢	☐不锈钢	☐铝合金（Si 含量 12%以下）
☐纯铜、紫铜	☐黄铜	☐钛合金
☐灰口铸铁	☐球墨铸铁	☐镍基合金及其他高温合金
☐蠕墨铸铁	☐可锻铸铁	☐冷硬铸铁
☐淬火钢	☐_____	

硬度(如 HRC,HB 硬度)：_____　**材料标准：**_____
抗拉强度(N/mm²)：_____　**标准说明：**_____
材料牌号(如 HT250, NAK80，TC4 等): _____

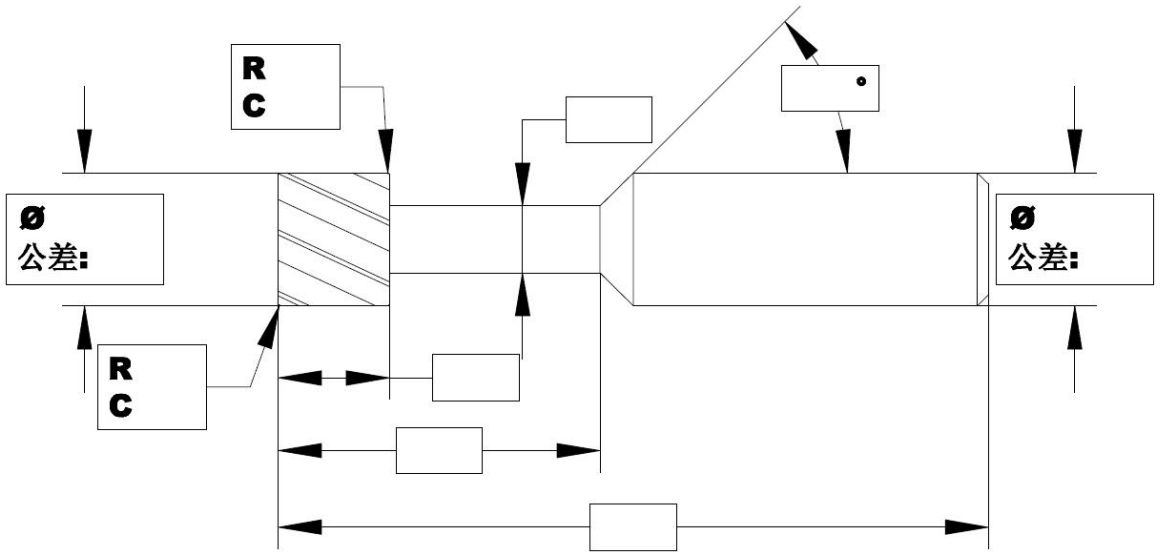
切削方向： ☐右切　☐左切
(如无说明，均采用右旋、右切）

螺旋方向：☐右旋　☐左旋
螺旋角：_____°

涂层（如需注明）: ☐TiN　☐TiCN　☐Uncoated　☐TiAlN　☐AlTiN　☐_____

切削刃数：☐Z=1　☐Z=2　☐Z=3　☐Z=4　☐Z=6　☐Z=8

柄部形式：☐HA(DIN6535 直圆柄)　☐HB(DIN6535 削平柄)



填写人：_____　**日期：**_____
（签名）



Shenzhen Zhuoluoyu Precision Tool Co., Ltd
http://www.zlytool.com