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德州钻星刀具有限公司
Dezhou Drillstar Cutting Tool Co., Ltd

德州钻星切削刀具有限公司是一家领先的深孔切削刀具和加工设备制造商，致力于为追求卓越精度和效率的行业提供高精度解决方案。我们全面的产品系列包括枪钻、BTA钻、镗孔刀具、珩磨刀具、铰刀以及定制设计的深孔加工机床，包括枪钻机、深孔钻镗床、深孔珩磨机、深孔开槽机，可满足各行各业最具挑战性的应用需求。

我们的产品广泛应用于关键任务行业，包括：

航空航天：加工涡轮叶片、起落架和发动机部件。

军事与国防：用于枪管、液压系统和装甲车辆的精密钻孔。

石油与天然气：用于阀体、钻铤和管道部件的可靠解决方案。

汽车与能源：用于燃油喷射系统、液压缸等的高效刀具。

Dezhou Drillstar Cutting Tool Co., Ltd. is a leading manufacturer specializing in deep hole cutting tools and machining equipments, offering high-precision solutions for industries demanding exceptional accuracy and efficiency. Our comprehensive product range includes Gun Drills, BTA drills, boring tools, honing tools, reamers, and custom-designed deep hole machines including gun drilling machines, deep hole drilling and boring machines, deep hole honing machines, deep hole grooving machines, catering to the most challenging applications across diverse sectors.

Our products are widely utilized in mission-critical industries, including:

Aerospace: Machining turbine blades, landing gear, and engine components.

Military & Defense: Precision drilling for barrels, hydraulic systems, and armored vehicles.

Oil & Gas: Reliable solutions for valve bodies, drill collars, and pipeline components.

Automotive & Energy: High-efficiency tooling for fuel injection systems, hydraulic cylinders, and more.



产品篇 PRODUCTS

航天航空类 AEROSPACE

焊接刀具 WELDING TOOL

钎焊刀具 BRAZED ALLOY TOOL

PCBN/PCD复合刀具 PCBN/PDC

机夹刀 MACHINE TOOL

拉刀/高速钢刀具 BROACH / HIGH SPEED STEEL TOOL

工装夹具类 FIXTURE

直升机旋翼类/模具 ROTOR WING

其他领域 Other Field

整体合金样本 Solid Carbide tools

合金类非标刀具 CARBIDE NON-STANDARD TOOL

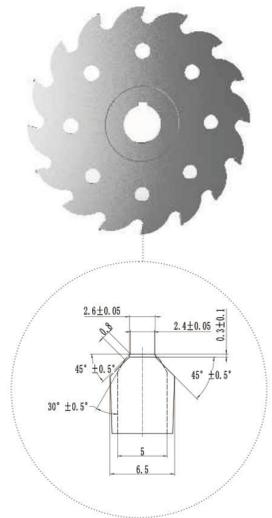
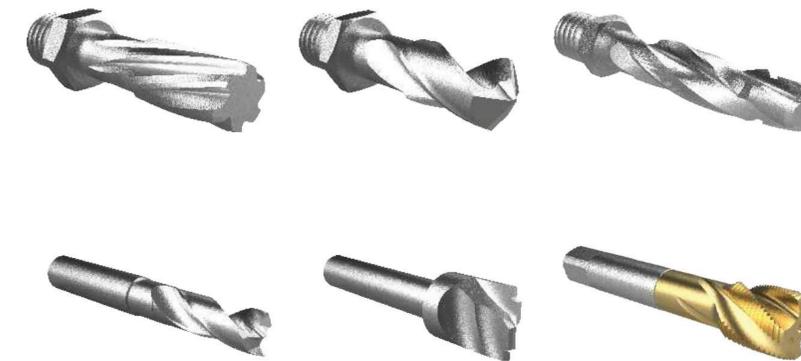


► 航空航天类

Aerospace

尤其擅长使用在高强度钢、碳纤维复合材料、钛合金(TC4), 碳纤维复镍基高温合金, 合金材料合金D406, 30CrMnSi、不锈钢及HRC45以上硬度等难加工材料。

It is especially good at using high-strength steel, carbon fiber composite materials, titanium alloy (TC4), carbon fiber nickel-based superalloy, composite material alloy D406, 30CrMnSi, stainless steel and HRC45 hardness and other difficult materials.



单齿螺纹铣刀

Single tooth thread milling cutter



合适加工打样件螺纹工件不多、螺纹规格型号多, 也可加工美制螺纹单扣牙加工阻力小、通用性强、使用方便。

Suitable processing proofing pieces thread workpiece, thread specifications and models, can also be processed American thread single-button teeth processing resistance is small, strong versatility, easy to use.

三排牙螺纹铣刀

Three row thread milling cutter



合适加工小孔径螺纹和硬度比较高的工件, 三扣牙钢性好, 强度高, 不容易断灰黑色涂层中间纳米看层结构具有较高的韧性和高的压应力。

Suitable for processing small aperture thread and relatively high hardness of the workpiece, the three buckle teeth good rigidity, high strength, not easy to break the gray black coating of the middle nano layer structure has high toughness and high compressive stress.

全齿螺纹铣刀

Full tooth thread milling cutter



合适大批量同规格生产, 螺纹规格多, 使用方便, 2倍径以内深度的工件, 加工效率高。

Suitable for mass production with the same specifications, thread specifications, easy to use, 2 times the diameter of the depth of the workpiece, high processing efficiency.

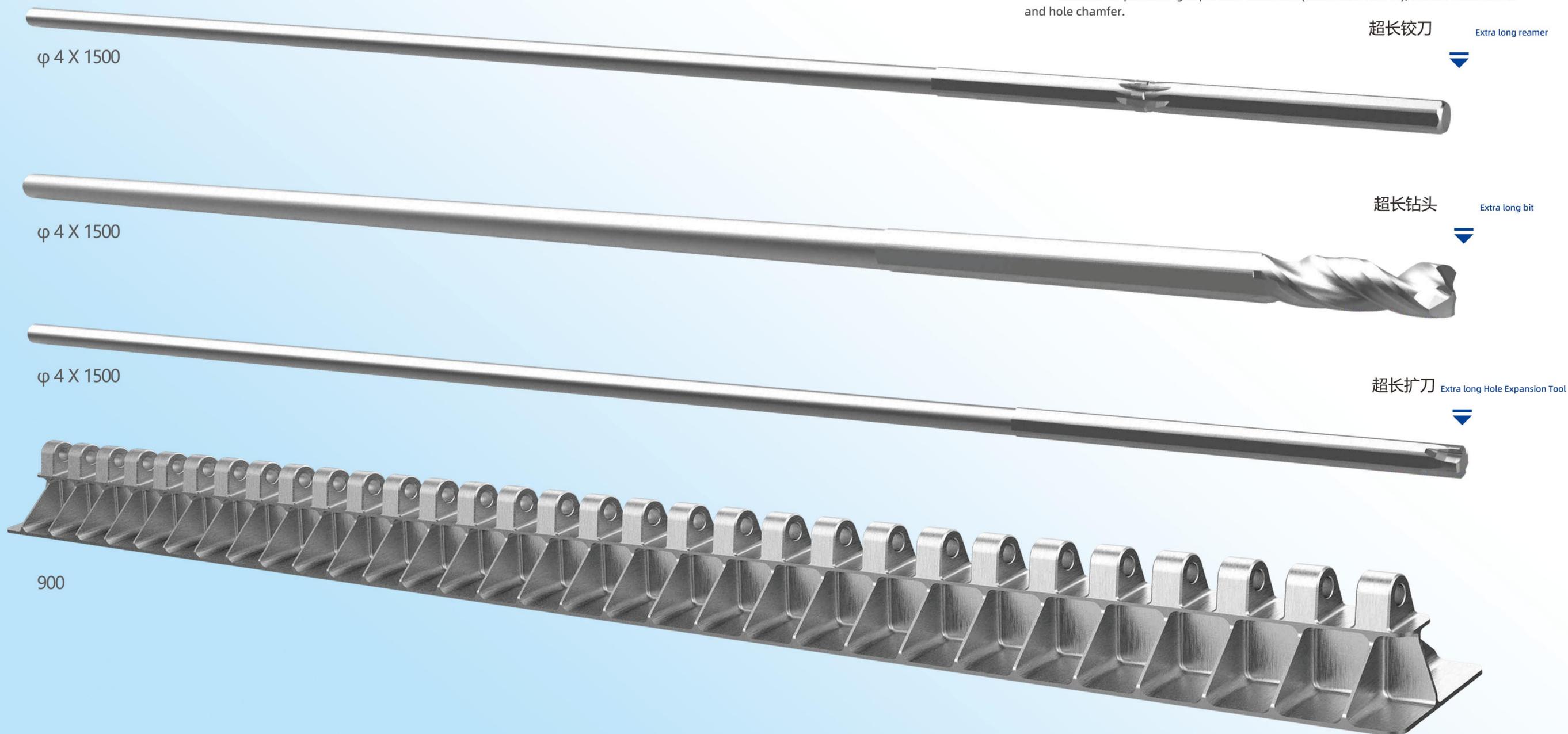
► 航空航天超长类多排孔加工方案

Aerospace Ultra-Long Type Multi-Row Hole Machining Solution

结构特点 Structural characteristics

冷却方式
Cooling mode 外冷却; 前后双导向导向
External cooling; Front and rear dual guide.

产品特点
Product characteristics 可根据加工材质提供HSS-Co及刃部整体合金结构。
适用于加工超硬材料 (硬度 > HRC45)、螺纹底孔及孔口倒角。
HSS-Co and the overall alloy structure of the blade can be provided according to the machining material.
Suitable for processing superhard materials (hardness >HRC45), thread bottom hole and hole chamfer.



► 钎焊刀具

Brazing tool

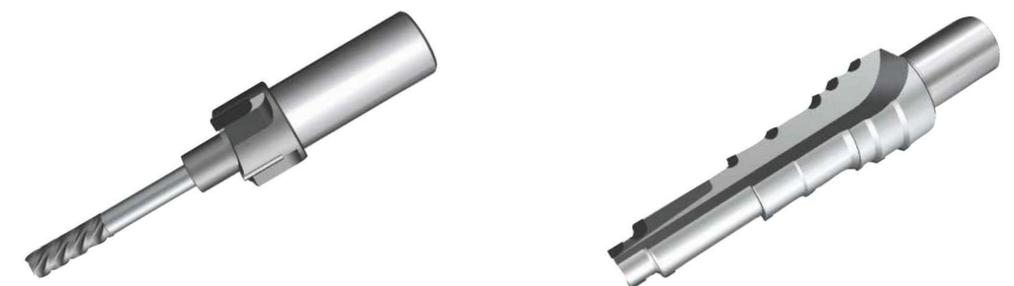
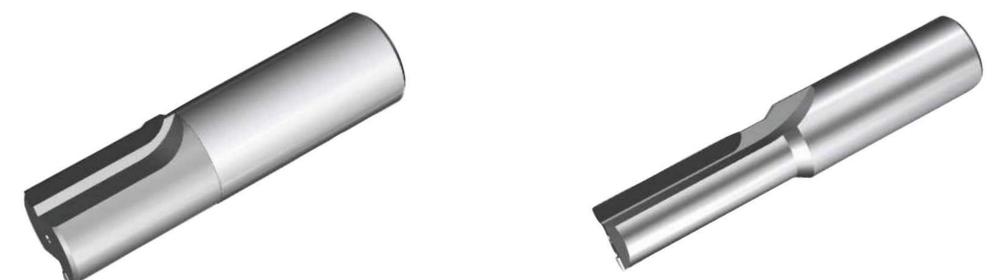
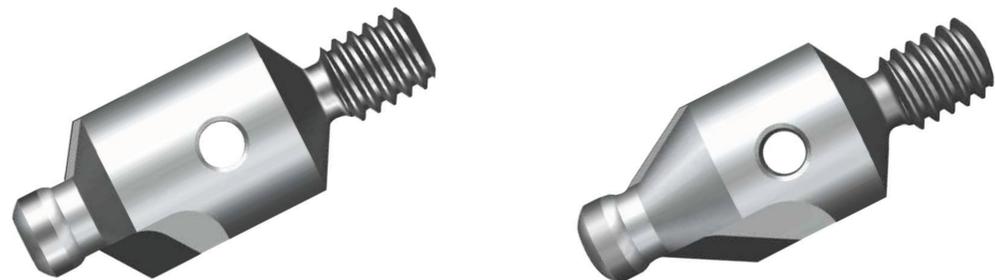
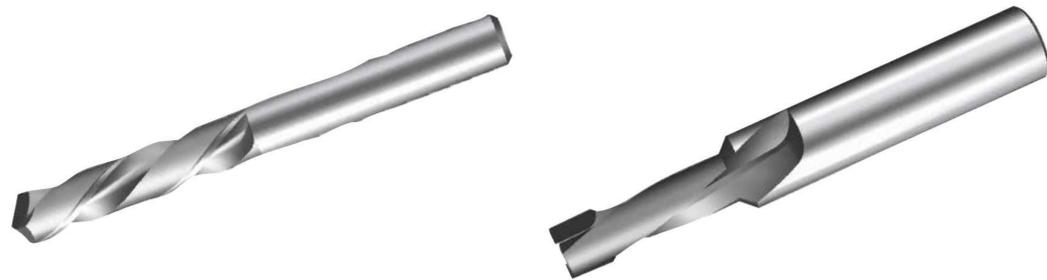


▶ PCBN/PCD复合刀具

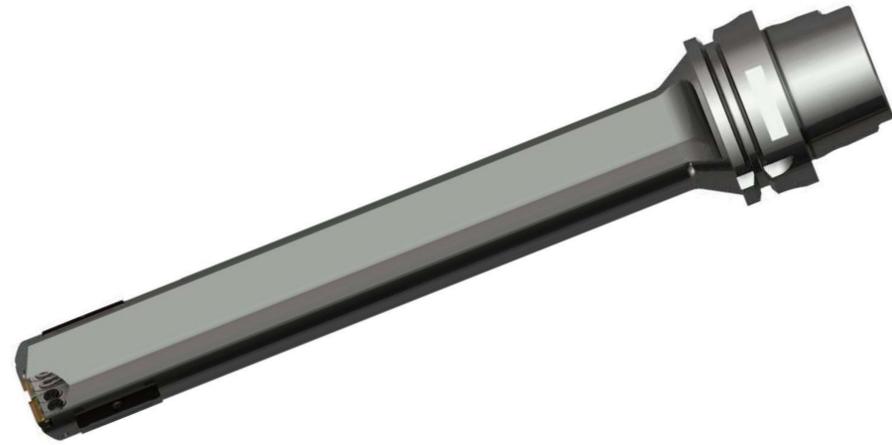
PCBN/PCD composite tool

PCBN/PCD复合刀具，采用国外进口超细颗粒材质及进口高端设备，可以刃磨出极高的刃口质量，更加锋利的切削刃，经过刃口细化处理，使刀具在加工过程中拥有更高的使用寿命和表面质量及稳定性，替代进口。

PCBN/PCD composite tool, the use of imported ultrafine particle material and imported high-end equipment, can be sharpened to a very high cutting edge quality, more sharp cutting edge, after the edge refinement treatment, so that the tool in the processing process has a higher service life and surface quality and stability, instead of imports.



▶ 机夹刀
Machine tool



► 拉刀/高速钢刀具
Broach/high speed steel tool



► 工装夹具类

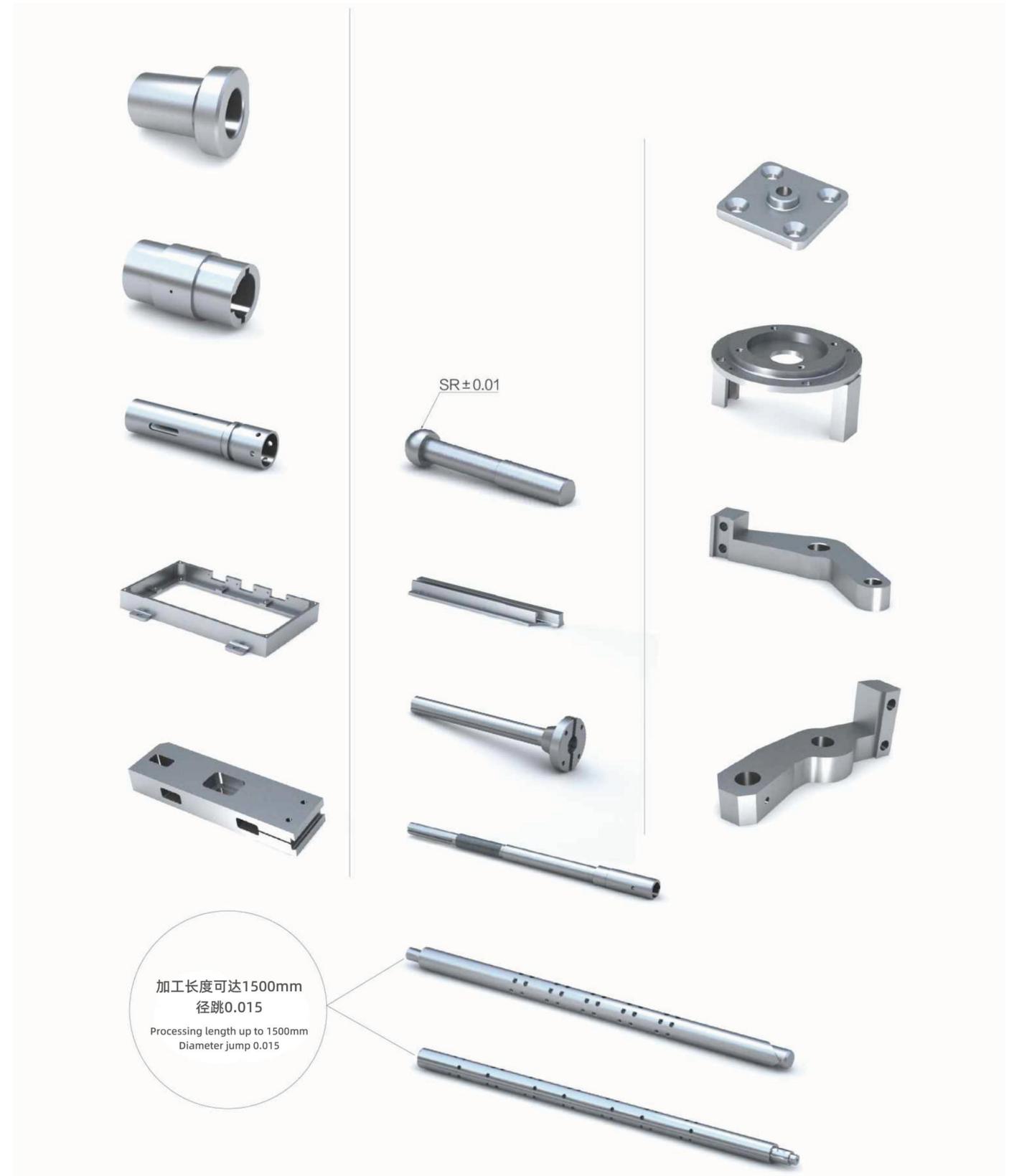
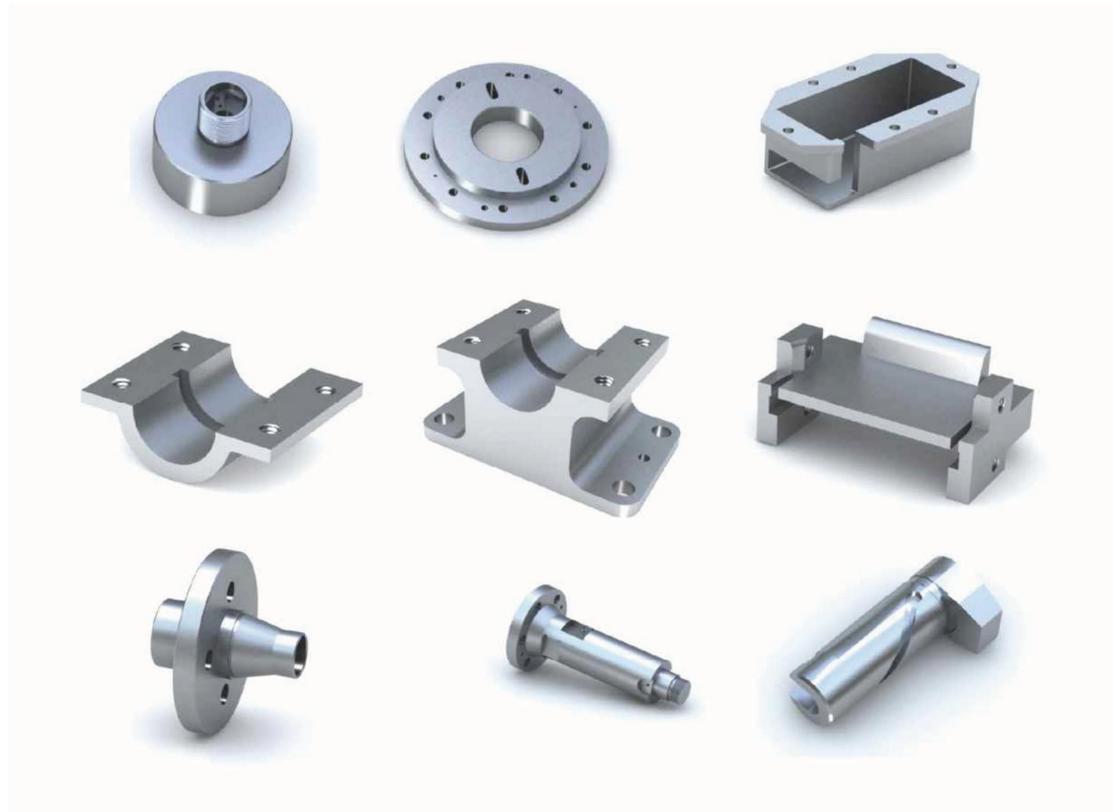
Fixture class

生产线配备曲线磨床，双柱坐标镗床，牛头刨床、龙门刨床，线切割，卧式加工中心，立式加工中心，三坐标检测仪。

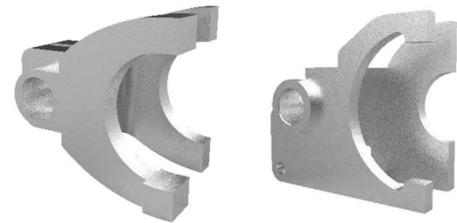
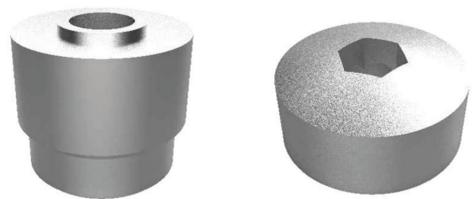
服务对象：舰船、系统工装，鱼雷、榴弹炮及航空航天零部件工装及汽车配件。

The production line is equipped with curve grinding machine, double column jig boring machine, shaper machine, gantry planer, wire cutting, horizontal machining center, vertical machining center, three coordinate detector.

Service objects: ships, system tooling, torpedoes, howitzers and aerospace parts tooling and auto parts.

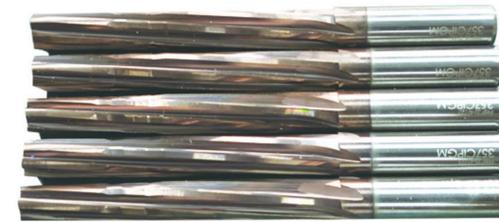


► 直升机旋翼类/模具
Helicopter rotors/molds



► 其他领域
Other fields tools

Chamber Reamer



Bullon



整体合金样本

BULK ALLOY SAMPLE

▶ 合金类非标刀具

Carbide non-standard tool



非标直槽类钻头系列

Non-standard straight groove drill series

非标螺旋槽类钻头系列

Non-standard spiral groove drill series

非标三刃钻头系列

Non-standard three-edge drill series

非标钻倒一体刀具系列

Non-standard drill inverted one tool series

非标扩孔刀系列

Non-standard reaming tool series

非标类铰刀系列

Non-standard reamer series

非标类铣刀系列

Non-standard milling cutter series

非标类T型铣刀系列

Non-standard T-type milling cutter series

非标丝锥系列

Non-standard tap series

非标V焊刀具系列

Non-standard V welding tool series

非标滚刀具系列

Non-standard hob series

▶ 非标直槽类钻头系列

Non-standard straight groove drill series



孔加工工艺要求 Hole processing technology requirements

加工孔径: _____ mm Machining aperture	加工工况: <input type="checkbox"/> 通孔 <input type="checkbox"/> 盲孔 Processing conditions Through-hole Blind hole
孔径公差: _____ mm Aperture tolerance	预 孔: <input type="checkbox"/> 有.D mm <input type="checkbox"/> 无 prehole Yes.D mm No
孔 深: _____ mm Hole depth	断差孔或斜孔: <input type="checkbox"/> 有.D mm <input type="checkbox"/> 无 Break hole or oblique hole Yes.D mm No

加工精度: 尺寸精度 _____

Machining accuracy: dimensional accuracy

: 表面粗糙度 _____

Surface roughness

刀具寿命: 新品寿命 _____ 修磨寿命 _____ 修磨次数 _____

Tool life: New product life

Grinding life

Number of grinding

寿命判断: 尺寸 负载 表面质量 其他

Life judgment:

dimension

load

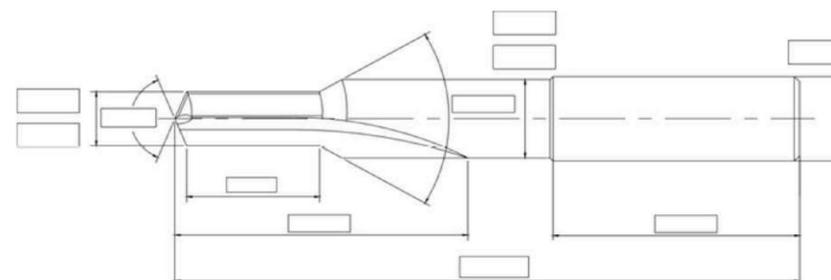
Surface quality

other

刀具信息 Tool information

涂层信息 Coating information	是Y	<input type="checkbox"/>
	否N	<input type="checkbox"/>

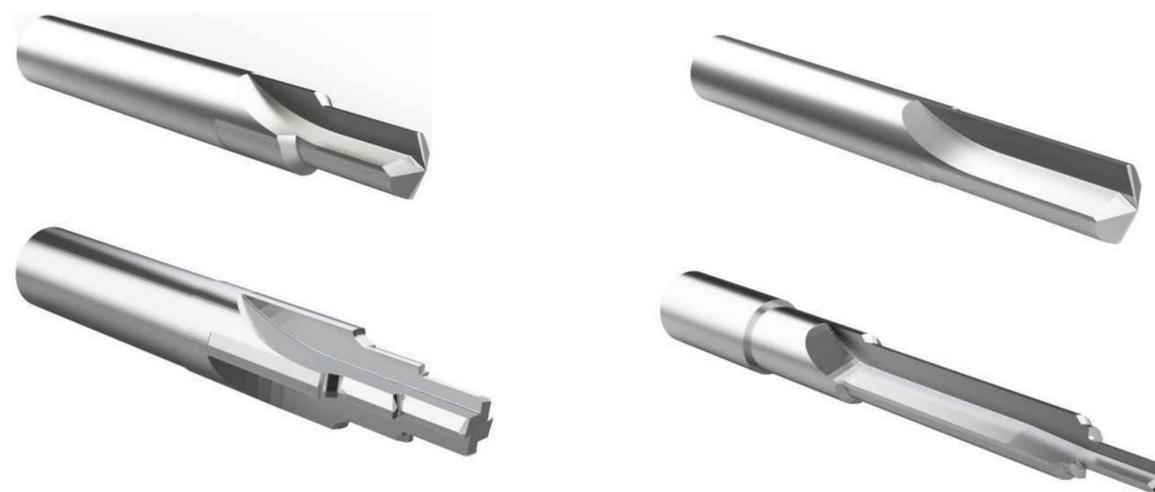
冷却条件 Cooling condition	外冷 External cooling	<input type="checkbox"/>
	内冷 Internal cooling	<input type="checkbox"/>



DIN6535	柄部形式 Stalk form	<input type="checkbox"/>
	Form HA	<input type="checkbox"/>
	Form HB	<input type="checkbox"/>
	Form HE	<input type="checkbox"/>
	普通直柄 Plain straight shank	<input type="checkbox"/>
	带扁尾柄 DIN 1809 With flat tail shank DIN 1809	<input type="checkbox"/>
	莫氏锥柄 MT Morse taper shank MT	<input type="checkbox"/>
	特殊形状 Special shape	<input type="checkbox"/>

制造特点 Manufacturing characteristics

- | | |
|---|--|
| 1、阶梯复合
Ladder compound | 2、直槽、抛光
Straight groove, polished |
| 3、内冷、外冷定制
Cold inside, cold outside custom | 4、横刃非标修正
Cross edge non-standard correction |
| 5、尺寸非标定制, 钻孔+倒角, 阶梯孔加工等,
Non-standard size customization, drilling + chamfering, step hole processing, etc. | |
| 6、阶梯复合
Step compound | 7、直槽, 抛光
Straight groove, polished |
| 8、内冷、外冷定制
Cold inside, cold outside custom | 9、横刃非标修正
Cross edge non-standard correction |
| 10、尺寸非标定制, E钻头主要应用于铝合金预孔加工, 薄壁件孔加工等;
Non-standard size customization, E drilling tip is mainly used in aluminum alloy pre-hole processing, thin-walled parts hole processing, etc. | |



▶ 非标螺旋槽类钻头系列

Non-standard spiral groove drill series



孔加工艺要求 Hole processing technology requirements

加工孔径: _____ mm Machining aperture	加工工况: <input type="checkbox"/> 通孔 <input type="checkbox"/> 盲孔 Processing conditions Through-hole Blind hole
孔径公差: _____ mm Aperture tolerance	预 孔: <input type="checkbox"/> 有.D mm <input type="checkbox"/> 无 prehole Yes.D mm No
孔 深: _____ mm Hole depth	断差孔或斜孔: <input type="checkbox"/> 有.D mm <input type="checkbox"/> 无 Break hole or oblique hole Yes.D mm No

加工精度: 尺寸精度 _____

Machining accuracy: dimensional accuracy

: 表面粗糙度 _____
Surface roughness

刀具寿命: 新品寿命 _____ 修磨寿命 _____ 修磨次数 _____

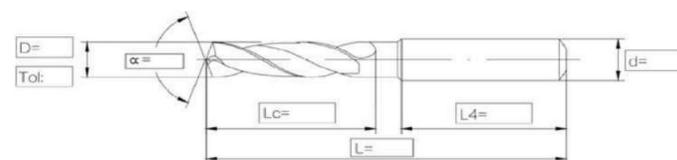
Tool life: New product life _____ Grinding life _____ Number of grinding _____

寿命判断: 尺寸 负载 表面质量 其他
Life judgment: dimension load Surface quality other

刀具信息 Tool information

涂层信息 Coating information	是Y	
	否N	

冷却条件 Cooling condition	外冷 External cooling	
	内冷 Internal cooling	



DIN6535	柄部形式
	<input type="checkbox"/> Form HA
	<input type="checkbox"/> Form HB
	<input type="checkbox"/> Form HE
	普通直柄
	带扁尾柄 DIN 1809
	莫氏锥柄 MT <input type="checkbox"/>
	特殊形状

机床与工件材料

Machine tools and workpiece materials

机床名称: _____

Machine name

机床类型: 立式加工中心 卧式加工中心 专机 数控车床 其他

Machine type Vertical machining center Horizontal machining center Private plane CNC lathe other

机床主轴类型: BT30 BT40 BT50 HSK 其他

Machine tool spindle type BT30 BT40 BT50 HSK other

夹柄型号: 弹簧夹头 液压夹头 热膨胀夹头 侧固式 专用丝锥夹头

Handle type Spring chuck Hydraulic chuck Thermal expansion chuck Side fixation Special tap chuck

钻夹头 其他

Drill chuck other

工件名称: _____

Job name

工件材料/牌号: _____

Workpiece material/grade

硬度HB/HRC: _____

Hardness HB/HRC

热处理: 是 否

Heat treatment YES NO

P	M	K	N	S	H						
低碳钢	普通钢	不锈钢	铸铁	铝合金	铜合金	石墨	木材	玻璃纤维	钛合金	高温合金	高硬钢
<input type="checkbox"/>											

加工材料 Processing material

合金铸铁, 球墨铸铁, 蠕墨铸铁, 铝合金, 钢件等材料

Alloy cast iron, nodular cast iron, vermicular cast iron, aluminum alloy, steel and other materials

制造特点 Manufacturing characteristics

1、螺旋槽

1. Spiral groove

2、内冷、外冷, 涂层定制

2. internal cold, external cold, coating customization

3、横刃非标修正

3. cross edge non-standard correction

4、尺寸非标定制, 应用于通孔, 盲孔加工, 加工深度可达 10D 孔深,

4. the size is non-standard customization, used in through hole, blind hole processing, processing depth up to 10D hole depth,



制造特点 Manufacturing characteristics

1、螺旋槽, 深孔

1. spiral groove, deep hole

2、内冷、涂层定

2. internal cooling, coating fixed

3、横刃非标修正

3. cross edge non-standard correction

4、尺寸非标定制, 应用于通孔, 盲孔加工, 孔深可达 30D;

4. non-standard size customization, used in through hole, blind hole processing, hole depth up to 30D;

▶ 非标螺旋槽类钻头系列

Non-standard spiral groove drill series



孔加工工艺要求 Hole processing technology requirements

加工孔径: _____ mm 加工工况: 通孔 盲孔
 Machining aperture Processing conditions Through-hole Blind hole

孔径公差: _____ mm 预 孔: 有.D mm 无
 Aperture tolerance prehole Yes.D mm No

孔 深: _____ mm 断差孔或斜孔: 有.D mm 无
 Hole depth Break hole or oblique hole Yes.D mm No

加工精度: 尺寸精度 _____
 Machining accuracy: dimensional accuracy

: 表面粗糙度 _____
 Surface roughness

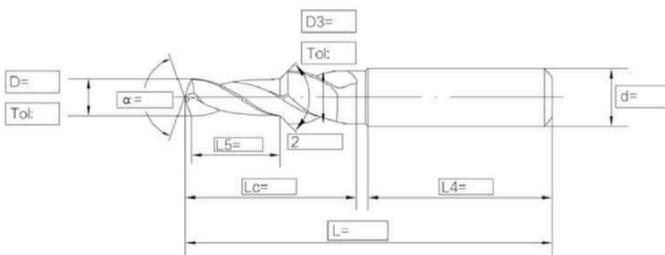
刀具寿命: 新品寿命 _____ 修磨寿命 _____ 修磨次数 _____
 Tool life: New product life Grinding life Number of grinding

寿命判断: 尺寸 负载 表面质量 其他
 Life judgment: dimension load Surface quality other

刀具信息 Tool information

涂层信息 是Y 否N
 Coating information

冷却条件 外冷 内冷
 Cooling condition External cooling Internal cooling



DIN6535	柄部形式
	<input type="checkbox"/> Form HA
	<input type="checkbox"/> Form HB
	<input type="checkbox"/> Form HE
	<input type="checkbox"/> 普通直柄
	<input type="checkbox"/> 带扁尾柄 DIN 1809
	<input type="checkbox"/> 莫氏锥柄 MT <input type="checkbox"/>
	特殊形状

机床与工件材料 Machine tools and workpiece materials

机床名称: _____
 Machine name

机床类型: 立式加工中心 卧式加工中心 专机 数控车床 其他
 Machine type Vertical machining center Horizontal machining center Private plane CNC lathe other

机床主轴类型: BT30 BT40 BT50 HSK 其他
 Machine tool spindle type BT30 BT40 BT50 HSK other

夹柄型号: 弹簧夹头 液压夹头 热膨胀夹头 侧固式 专用丝锥夹头
 Handle type Spring chuck Hydraulic chuck Thermal expansion chuck Side fixation Special tap chuck

钻夹头 其他
 Drill chuck other

工件名称: _____
 Job name

工件材料/牌号: _____
 Workpiece material/grade

硬度HB/HRC: _____
 Hardness HB/HRC

热处理: 是 否
 Heat treatment YES NO

<input type="checkbox"/>											
低碳钢	普通钢	不锈钢	铸铁	铝合金	铜合金	石墨	木材	玻璃纤维	钛合金	高温合金	高硬钢

制造特点 Manufacturing characteristics

- 螺旋槽, 阶梯
1, spiral groove, step
- 内冷、外冷, 涂层定制
2, internal cold, external cold, coating customization
- 横刃非标修正
3, transverse edge non-standard correction
- 尺寸非标定制, 应用于钻倒一体、钻台阶孔
4, dimension non-standard customization, used in drilling, drilling step holes



制造特点 Manufacturing characteristics

- 螺旋槽, 多阶梯
1, spiral groove, multi-step
- 内冷、外冷, 涂层定制
2, internal cold, external cold, coating customization
- 横刃非标修正
3, cross edge non-standard correction
- 尺寸非标定制, 应用于阶梯孔+倒角一体加工
4, size non-standard customization, applied to step hole + chamfer integrated processing

制造特点 Manufacturing characteristics

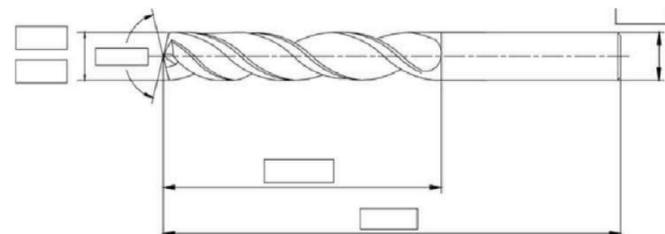
- 螺旋槽, 多阶梯, 成型
1, spiral groove, multi-step, forming
- 内冷、外冷, 涂层定制
2, internal cold, external cold, coating customization
- 横刃非标修正
3, transverse edge non-standard correction
- 尺寸非标定制, 应用于阶梯复合成型孔加工
4, size non-standard customization, applied to step composite molding hole processing

▶ 非标三刃钻头系列 Non-standard three-edge drill series



刀具信息 Tool information

涂层信息 Coating information	是Y		冷却条件 Cooling condition	外冷 External cooling	
	否N			内冷 Internal cooling	



DIN6535	柄部形式	<input type="checkbox"/>
	Form HA	<input type="checkbox"/>
	Form HB	<input type="checkbox"/>
	Form HE	<input type="checkbox"/>
	普通直柄	<input type="checkbox"/>
	带扁尾柄 DIN 1809	<input type="checkbox"/>
	莫氏锥柄 MT	<input type="checkbox"/>
	特殊形状	<input type="checkbox"/>

孔加工工艺要求 Hole processing technology requirements

加工孔径: _____ mm Machining aperture	加工工况: <input type="checkbox"/> 通孔 <input type="checkbox"/> 盲孔 Processing conditions Through-hole Blind hole
孔径公差: _____ mm Aperture tolerance	预 孔: <input type="checkbox"/> 有.D mm <input type="checkbox"/> 无 prehole Yes.D mm No
孔 深: _____ mm Hole depth	断差孔或斜孔: <input type="checkbox"/> 有.D mm <input type="checkbox"/> 无 Break hole or oblique hole Yes.D mm No

加工精度: 尺寸精度 _____
Machining accuracy: dimensional accuracy

: 表面粗糙度 _____
Surface roughness

刀具寿命: 新品寿命 _____ 修磨寿命 _____ 修磨次数 _____
Tool life: New product life Grinding life Number of grinding

寿命判断: 尺寸 负载 表面质量 其他
Life judgment: dimension load Surface quality other

加工材料 Processing material

合金铸铁, 球墨铸铁, 蠕墨铸铁, 铝合金, 钢材等材料
Alloy cast iron, nodular cast iron, vermicular cast iron, aluminum alloy, steel and other materials



制造特点 Manufacturing characteristics

- 螺旋槽, 三刃通用型
1. Spiral groove, three-blade universal type
- 内冷、外冷, 涂层定制
2. internal cold, external cold, coating customization
- 横刃非标修正
3. cross edge non-standard correction
- 尺寸非标定制, 应用于预制孔, 薄壁孔, 半孔, 交叉孔等加工。
4. size non-standard customization, used in prefabricated holes, thin wall holes, half holes, cross holes and other processing.



制造特点 Manufacturing characteristics

- 螺旋槽, 三刃 E 钻头
1. spiral groove, three-edge E drill tip
- 内冷、外冷, 涂层定制
2. internal cold, external cold, coating customization
- 横刃非标修正
3. cross edge non-standard correction
- 尺寸非标定制, 应用于实心, 预制孔, 薄壁孔, 半孔等加工。
4. size non-standard customization, used in solid, prefabricated holes, thin wall holes, half holes and other processing.



制造特点 Manufacturing characteristics

- 螺旋槽, 三刃双角度
1. spiral groove, three edge double Angle
- 刃尖双角度+R 型
2. Double Angle +R type
- 内冷、外冷, 涂层定制
3. internal cold, external cold, coating customization
- 横刃非标修正
4. cross edge non-standard correction
- 尺寸非标定制, 应用于预制孔, 薄壁孔, 半孔, 交叉孔等加工。
5. size non-standard customization, used in prefabricated holes, thin wall holes, half holes, cross holes and other processing.



制造特点 Manufacturing characteristics

- 螺旋槽, 三刃群钻多阶梯
1. spiral groove, three edge group drilling multi-step
- 内冷、外冷, 涂层定制
2. internal cold, external cold, coating customization
- 横刃非标修正
3. cross edge non-standard correction
- 尺寸非标定制, 应用于预制孔, 薄壁孔, 半孔, 交叉孔+倒角一体加工。
4. size non-standard customization, used in prefabricated holes, thin-walled holes, Half hole, cross hole + chamfer processing.

▶ 非标钻倒一体刀具系列

Non-standard drill inverted one tool series

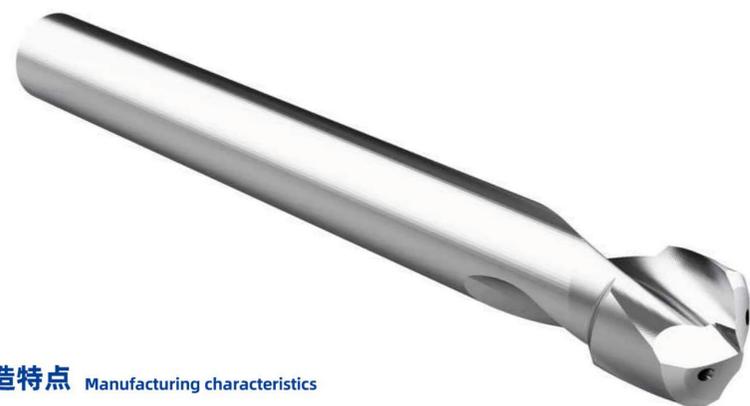


加工材料 Processing material

合金铸铁, 球墨铸铁, 蠕墨铸铁, 铝合金, 钢件等材料
Alloy cast iron, nodular cast iron, vermicular cast iron, aluminum alloy, steel and other materials

制造特点 Manufacturing characteristics

- 1、螺旋槽, 双倒角
1, spiral groove, double chamfer
- 2、横刃处非标准
2, cross edge non-standard standard
- 3、内冷、外冷, 涂层定制
3, internal cold, external cold, coating customization
- 4、尺寸非标定制, 应用于钻孔及内外端面倒角一体加工
4, size non-standard customization, used in drilling and internal and external end chamfer processing



制造特点 Manufacturing characteristics

- 1、螺旋槽, 双倒角
1, spiral groove, double chamfer
- 2、横刃处非标准
2, cross edge non-standard standard
- 3、内冷、外冷, 涂层定制
3, internal cold, external cold, coating customization
- 4、尺寸非标定制, 应用于钻孔及内外端面倒角一体加工
4, size non-standard customization, used in drilling and internal and external end chamfer processing

▶ 非标扩孔刀系列

Non-standard reaming knife series



合金铸铁, 球墨铸铁, 蠕墨铸铁, 铝合金等材料
Alloy cast iron, nodular cast iron, vermicular cast iron, aluminum alloy and other materials

制造特点 Manufacturing characteristics

- 1、直槽, 多阶梯 2、单阶梯, 多阶梯可以定制 3、内冷、外冷, 涂层定制
1, straight groove, multi-step 2, single step, multi-step can be customized 3, internal cold, external cold, coating customization
- 4、尺寸非标定制, 应用于扩孔, 扩复合孔, 扩成型孔等加工
4, size non-standard customization, used in reaming, reaming composite holes, reaming molding holes and other processing



合金铸铁, 球墨铸铁, 蠕墨铸铁, 铝合金, 钢件等材料
Alloy cast iron, nodular cast iron, vermicular cast iron, aluminum alloy, steel and other materials

制造特点 Manufacturing characteristics

- 1、螺旋, 多阶梯 2、单阶梯, 多阶梯可以定制 3、内冷、外冷, 涂层定制
1, spiral, multiple steps 2, single step, multi-step can be customized 3, internal cold, external cold, coating customization
- 4、尺寸非标定制, 应用于扩孔, 扩复合孔, 扩成型孔等加工
4, size non-standard customization, used in reaming, reaming composite holes, reaming molding holes and other processing

▶ 非标类铰刀系列 Non-standard reamer series



孔加工工艺要求 Hole processing technology requirements

加工孔径: _____ mm Machining aperture	加工工况: <input type="checkbox"/> 通孔 <input type="checkbox"/> 盲孔 Processing conditions Through-hole Blind hole
孔径公差: _____ mm Aperture tolerance	预 孔: <input type="checkbox"/> 有.D mm <input type="checkbox"/> 无 prehole Yes.D mm No
孔 深: _____ mm Hole depth	断差孔或斜孔: <input type="checkbox"/> 有.D mm <input type="checkbox"/> 无 Break hole or oblique hole Yes.D mm No

加工精度: 尺寸精度 _____
Machining accuracy: dimensional accuracy

: 表面粗糙度 _____
Surface roughness

刀具寿命: 新品寿命 _____ 修磨寿命 _____ 修磨次数 _____
Tool life: New product life Grinding life Number of grinding

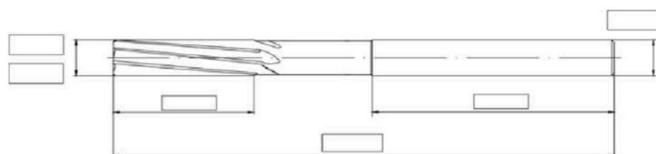
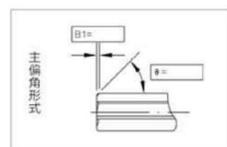
寿命判断: 尺寸 负载 表面质量 其他
Life judgment: dimension load Surface quality other

刀具信息 Tool information

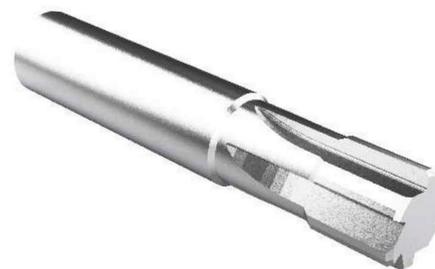
涂层信息 Coating information	是Y	
	否N	

冷却条件 Cooling condition	外冷 External cooling	
	内冷 Internal cooling	

排屑槽旋向	左旋 <input type="checkbox"/>	直槽 <input type="checkbox"/>	右旋 <input type="checkbox"/>
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DIN6535	柄部形式	<input type="checkbox"/>
	Form HA	<input type="checkbox"/>
	Form HB	<input type="checkbox"/>
	Form HE	<input type="checkbox"/>
	普通直柄	<input type="checkbox"/>
	带扁尾柄 DIN 1809	<input type="checkbox"/>
	莫氏锥柄 MT	<input type="checkbox"/>
	特殊形状	<input type="checkbox"/>



制造特点 Manufacturing characteristics

- 1、直槽, 多刃
1, straight groove, multi-blade
- 2、单阶梯, 多阶梯可以定制
2, single ladder, multi-ladder can be customized
- 3、内冷、外冷, 涂层定制
3, internal cold, external cold, coating customization
- 4、尺寸非标定制, 应用于铰孔通孔, 盲孔加工孔公差可达 H6 级, 光洁度 0.8;
4, the size is non-standard customization, applied to reaming through the hole, blind hole machining tolerance up to H6, finish 0.8;



制造特点 Manufacturing characteristics

- 1、右螺旋, 多刃
1, right spiral, multi-blade
- 2、单阶梯, 多阶梯可以定制
2, single ladder, multi-ladder can be customized
- 3、内冷、外冷, 涂层定制
3, internal cold, external cold, coating customization
- 4、尺寸非标定制, 应用于铰孔盲孔加工, 孔公差可达 H6 级, 光洁度 0.8;
4, non-standard size customization, used in reaming blind hole processing, hole tolerance up to H6, finish 0.8;



制造特点 Manufacturing characteristics

- 1、左螺旋, 多刃
1, left spiral, multi-blade
- 2、单阶梯, 多阶梯可以定制
2, single ladder, multi-ladder can be customized
- 3、内冷、外冷, 涂层定制
3, internal cold, external cold, coating customization
- 4、尺寸非标定制, 应用于铰孔通孔加工, 孔公差可达 H6 级, 光洁度 0.8;
4, non-standard size customization, applied to reaming through hole processing, hole tolerance up to H6, finish 0.8;



制造特点 Manufacturing characteristics

- 1、直槽, 多刃, 多阶梯
1, straight slot, multi-blade, multi-step
- 2、多阶梯可以方案定制
2, multi-ladder can be customized
- 3、内冷、外冷, 涂层定制
3, internal cold, external cold, coating customization
- 4、尺寸非标定制, 应用于阶梯孔的精加工多阶梯非标个性化方案定制;
4, non-standard size customization, applied to step hole machining multi-step non-standard personalized solution customization;

▶ 非标类铣刀系列

Non-standard milling series

加工材料 Processing material

合金铸铁, 球墨铸铁, 蠕墨铸铁, 铝合金, 钢件等材料
Alloy cast iron, nodular cast iron, vermicular cast iron, aluminum alloy, steel and other materials



制造特点 Manufacturing characteristics

- 1、螺旋, 多刃, 不等分
1, spiral, multi-blade, not equal
- 2、R角, 可以缩径
2, R Angle, can be reduced
- 3、内冷、外冷, 涂层定制
3, internal cold, external cold, coating customization
- 4、尺寸非标定制, 应用于槽铣, 侧铣, 端铣等加工;
4, size non-standard customization, used in slot milling, side milling, end

milling and other processing;



制造特点 Manufacturing characteristics

- 1、螺旋, 多刃, 不等分
1, spiral, multi-blade, not equal
- 2、R角/倒角, 可以缩径
2, R Angle/chamfer, can be reduced
- 3、内冷、外冷, 涂层定制
3, internal cold, external cold, coating customization
- 4、尺寸非标定制, 应用于精加工铣削;
4, non-standard size customization, applied to finishing milling;

加工材料 Processing material

合金铸铁, 球墨铸铁, 蠕墨铸铁, 铝合金, 钢件等材料
Alloy cast iron, nodular cast iron, vermicular cast iron, aluminum alloy, steel and other materials



制造特点 Manufacturing characteristics

- 1、螺旋, 多刃, 不等分
1, spiral, multi-blade, not equal
- 2、球头, 可以缩径
2, ball head, can be reduced
- 3、内冷、外冷, 涂层定制
3, internal cold, external cold, coating customization
- 4、尺寸非标定制
4, size non-standard customization



制造特点 Manufacturing characteristics

- 1、螺旋, 多刃, 不等分
1, spiral, multi-blade, not equal
- 2、后角波纹, 可以缩径
2, back corner ripple, can be reduced
- 3、内冷、外冷, 涂层定制
3, internal cold, external cold, coating customization
- 4、尺寸非标定制, 应用于槽铣侧铣等加工;
4, non-standard size customization, used in groove milling side

milling and other processing;



制造特点 Manufacturing characteristics

- 1、螺旋, 直槽均可定制
1, spiral, straight groove can be customized
- 2、球形棒棒糖结构
2, Spherical lollipop structure
- 3、内冷、外冷, 涂层定制
3, internal cold, external cold, coating customization
- 4、尺寸非标定制, 应用于倒角球形铣等加工;
4, the size is non-standard customization, used in chamfered ball

milling and other processing;

▶ 非标类T型铣刀系列

Non-standard T type milling series

加工材料 Processing material 合金铸铁, 球墨铸铁, 蠕墨铸铁, 铝合金, 钢件等材料
Alloy cast iron, nodular cast iron, vermicular cast iron, aluminum alloy, steel and other materials



制造特点 Manufacturing characteristics

- 1、多刃
1. Multi-blade
- 2、内冷、外冷, 涂层定制
2. internal cold, external cold, coating customization
- 3、尺寸非标定制, 应用于槽铣加工
3. size non-standard customization, used in slot milling processing



制造特点 Manufacturing characteristics

- 1、多刃
1. Multi-blade
- 2、成型结构
2. forming structure
- 3、内冷、外冷, 涂层定制
3. cold inside, cold outside, custom coating
- 4、尺寸非标定制, 应用于成型类槽加工
4. the size of the non-standard customization, used in molding

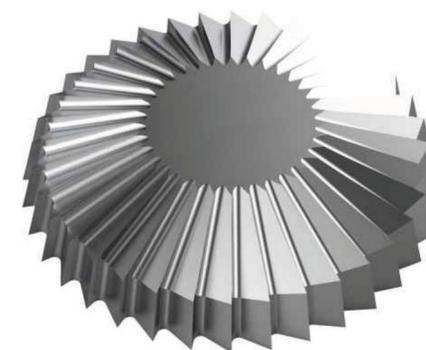
groove processing

加工材料 Processing material 合金铸铁, 球墨铸铁, 蠕墨铸铁, 铝合金, 钢件等材料
Alloy cast iron, nodular cast iron, vermicular cast iron, aluminum alloy, steel and other materials



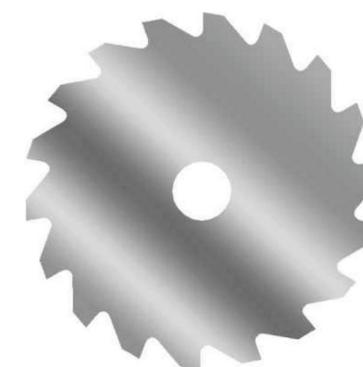
制造特点 Manufacturing characteristics

- 1、螺旋/直槽/斜齿
1. spiral/straight groove/oblique teeth
- 2、成型结构
2. forming structure
- 3、内冷、外冷, 涂层定制
3. internal cold, external cold, coating customization
- 4、尺寸非标定制, 应用于成型类尺寸加工
4. size non-standard customization, applied to molding size processing



制造特点 Manufacturing characteristics

- 1、双角度、多刃
1. double Angle, multi-blade
- 2、成型尺寸
2. molding size
- 3、涂层定制
3. coating customization
- 4、尺寸非标定制, 应用于成型类槽加工
4. the size of the non-standard customization, used in molding groove processing



制造特点 Manufacturing characteristics

- 1、直槽/错齿, 多刃
1. straight groove/wrong teeth, multi-blade
- 2、锯片刀
2. Saw blade knife
- 3、涂层定制
3. coating customization
- 4、尺寸非标定制, 应用于槽类加工
4. non-standard size customization, used in groove processing

▶ 非标丝锥系列

Non-standard tap series

加工材料

Processing material

合金铸铁, 球墨铸铁, 蠕墨铸铁, 铝合金, 钢件等材料
Alloy cast iron, nodular cast iron, vermicular cast iron, aluminum alloy, steel and other materials



制造特点 Manufacturing characteristics

- 1、直槽, 多刃
1, straight groove, multi-blade
- 2、粉末冶金/硬质合金
2, powder metallurgy/carbide
- 3、内冷、外冷, 涂层定制
3, internal cold, external cold, coating customization
- 4、尺寸非标定制, 应用于通孔, 盲孔加工
4, size non-standard customization, used in through hole, blind hole processing



制造特点 Manufacturing characteristics

- 1、螺旋, 多刃
1, spiral, multi-blade
- 2、粉末冶金/硬质合金
2, powder metallurgy/carbide
- 3、内冷、外冷, 涂层定制
3, internal cold, external cold, coating customization
- 4、尺寸非标定制, 应用于盲孔加工
4, size non-standard customization, used in blind hole processing

▶ 非标V焊刀具系列

Non-standard V welding tool series

特点 peculiarity

- (1) 切削部分用合金材料, 加持部分用钢材, 性价比高
(1) The cutting part is made of alloy material, and the holding part is made of steel, which is cost-effective
- (2) 外冷和内冷刀具均可以进行焊接
(2) Both externally cooled and internally cooled tools can be welded
- (3) 焊接后加工参数可以和整体合金参数一致;
(3) The processing parameters after welding can be consistent with the overall alloy parameters;

