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**PREMIUM
CUTTING TOOL**
高端切削刀具

Industrial Production Tools

工业级生产工具

INDEX 索引

SOLID CARBIDE DRILLS

整体硬质合金钻头

SOLID CARBIDE DRILLS WITH / WITHOUT COOLANT-----1
整体硬质合金内冷/外冷钻头 3/5/8/12倍径
SOLID CARBIDE DRILLS WITH COOLANT DUCTS-----1
整体硬质合金内冷钻头 15/20/25/30/40倍径
SOLID CARBIDE DRILLS WITHOUT COOLANT-----2
整体硬质合金钻头 3/5/8/12倍径
INDEXABLE DRILLS-----2
可换头钻头
U - DRILL SERIES-----3
U钻系列

SOLID CARBIDE END MILL

整体硬质合金铣刀

HSS CO PM MULTI FLUTES FLAT END MILL-----3
高速钢粉末多刃平头铣刀
SOLID CARBIDE MULTI FLUTES BALL NOSE END MILL-----4
整体硬质合金多刃球头铣刀
SOLID CARBIDE TAPPER BALL NOSE END MILL-----4
整体硬质合金锥度球头铣刀
SOLID CARBIDE MULTI FLUTES FLAT END MILL-----5
整体硬质合金多刃平头铣刀
SOLID CARBIDE BALLNOSE END MILL-----5
整体硬质合金圆鼻铣刀
SOLID CARBIDE TAPPING END MILL-----6
整体硬质合金多刃波刃铣刀
SOLID CARBIDE MICRO MILL-----6
整体硬质合金超小径铣刀

SOLID CARBIDE TAPS

整体硬质合金丝锥

SOLID CARBIDE FORMING TAPS WITH INTERNAL COOLANT-----7
整体硬质合金内冷挤压丝锥

GROUP FACTORY 1



GROUP FACTORY 2



SOLID CARBIDE FORMING TAPS-----7
整体硬质合金挤压丝锥
SOLID CARBIDE SPIRAL FLUTED TAPS WITH INTERNAL COOLANT-----8
整体硬质合金内冷螺旋丝锥
SOLID CARBIDE SPIRAL FLUTED TAPS-----8
整体硬质合金螺旋丝锥
SOLID CARBIDE STRAIGHT FLUTED TAPS WITH INTERNAL COOLANT-----9
整体硬质合金内冷直槽丝锥
SOLID CARBIDE STRAIGHT FLUTED TAPS-----9
整体硬质合金直槽丝锥
SOLID CARBIDE THREAD MILL-----10
整体硬质合金螺旋铣刀
HSS ROUND DIE / HEXAGON DIE-----10
高速钢圆板牙/高速钢六角板牙

SOLID CARBIDE REAMER

整体硬质合金铰刀

SOLID CARBIDE LEFT-HAND REAMER-----11
整体硬质合金左旋铰刀
SOLID CARBIDE RIGHT-HAND REAMER-----11
整体硬质合金右旋铰刀

AEROSPACE SOLUTIONS

航空解决方案

SOLID CARBIDE THREADED DRILL-----12
整体硬质合金螺纹接口钻头
SOLID CARBIDE THREADED REAMER-----12
整体硬质合金螺纹接口铰刀
SOLID CARBIDE DOUBLE FLUTE COUNTERSINK-----13
整体硬质合金双刃锪窝钻
PCD DOUBLE FLUTE COUNTERSINK-----13
PCD双刃锪窝钻
SOLID CARBIDE DIAMOND COATED FINE NICK ROUTE-----14
整体硬质合金金刚石涂层涂层铣刀
SOLID CARBIDE THREADED REAMER-----14
整体硬质合金粉碎体+圆刀片
SOLID CARBIDE CARBON FIBER DRILL BITS-----15
整体硬质合金碳纤维钻头

METAL CUTTING COLD SAW BLADE

金属切削冷锯

CARBIDE/CERMET COATED METAL CUTTING COLD SAW BLADE-----16
硬质合金/金属陶瓷涂层铁工冷锯
MANUAL COLD SAW BLADE-----16
手持式冷锯片
SOLID CARBIDE SLITTING SAW BLADE-----17
整体硬质合金锯片铣刀
ALUMINUM STEP FORMING FINISHING MILLS-----17
铝合金阶梯成型精铣刀

CNC INSERTS

数控刀片

PVD Coating Service-----20

PVD涂层服务

Comparison table of Materials-----21

材料对照表

GROUP FACTORY 3



SOLID CARBIDE DRILLS WITH / WITHOUT COOLANT

整体硬质合金内冷/外冷钻头 3/5/8/12倍径

3xD / 5xD / 8xD / 12xD



Suitable for materials 适用材料	P M K S	N	P M S
--------------------------------	---------	---	-------

Diameter Size: 3.0-20.0mm 1/8"-3/4"

直径尺寸: 3.0-20.0mm 1/8"-3/4"

Diameter tolerance: m7, Diameter of shank tolerance: h6

直径公差: m7 柄径公差: h6。

According to customer needs, matching the corresponding material of the processing drill bits, can accept non-standard customization.

根据客户需求, 匹配对应材料的加工钻头, 可接受非标定制。

SOLID CARBIDE DRILLS WITH COOLANT DUCTS

整体硬质合金内冷钻头 15/20/25/30/40倍径

15xD/20xD/25xD/30xD/40xD



Suitable for materials 适用材料	P M K S	N	P M S
--------------------------------	---------	---	-------

Diameter Size: 3.0-20.0mm 1/8"-3/4"

直径尺寸: 3.0-20.0mm 1/8"-3/4"

Diameter tolerance: m7, Diameter of shank tolerance: h6

直径公差: m7 柄径公差: h6。

According to customer needs, matching the corresponding material of the processing drill bits, can accept non-standard customization.

根据客户需求, 匹配对应材料的加工钻头, 可接受非标定制。

SOLID CARBIDE DRILLS WITHOUT COOLANT

整体硬质合金钻头 3/5/8/12倍径


3xD / 5xD / 8xD / 12xD


Suitable for materials 适用材料	P M K S	N	P M S
--------------------------------	-------------------------------------	----------	----------------------------

Diameter Size: 3.0-20.0mm 1/8"-3/4"
 直径尺寸: 3.0-20.0mm 1/8"-3/4"
 Diameter tolerance: m7, Diameter of shank tolerance: h6
 直径公差: m7 柄径公差: h6.

According to customer needs, matching the corresponding material of the processing drill bits, can accept non-standard customization.
 根据客户需求, 匹配对应材料的加工钻头, 可接受非标定制。

INDEXABLE DRILLS

可换头钻头



Suitable for materials 适用材料	P M K N S
--------------------------------	--



Insert diameter :D16-D32 standard (D12.5-D42 is non-standard)
 刀头直径: D16-D32 标准系列 (D12.5-D42 非标系列)
 Shank length: 3D/ 5D/ 7D/ 8D/ 10D/ 12D
 刀柄长度: 3D/ 5D/ 7D/ 8D/ 10D/ 12D
 Technical feature: High-alloy steel blade body with rear pulling design.
 技术特点: 高合金钢刀体, 后拉式设计。

According to customer needs, matching the corresponding material of the processing drill bits, can accept non-standard customization.

根据客户需求, 匹配对应材料的加工钻头, 可接受非标定制。

U - DRILL SERIES

U钻系列

2xD / 3xD / 4xD / 5xD / 8xD


Suitable for materials 适用材料	P M K N S
--------------------------------	--

Working depth: 2D, 3D, 4D, 5D Deep hole drill: 5D, 6.5D, 8D
 浅孔钻工作深度: 2D, 3D, 4D, 5D 深孔钻工作深度: 5D, 6.5D, 8D
 Universal holder drill: 2.25D, 3.25D; 2.5D, 3.5D
 多用刀柄: 2.25D, 3.25D; 2.5D, 3.5D

Technical feature: High drilling accuracy, good chip removal performance, sufficient rigidity, and good cooling effect.
 技术特点: 钻孔精度高, 排屑性能好, 刚性足, 冷却效果好。

We supply the matching inserts, screw and wrench.
 我们可提供与刀柄配套的刀片、螺钉和扳手。

HSS-E CPM MULTI FLUTES END MILL

高速钢及粉末多刃铣刀

2 / 3 / 4 FLUTE


dc Size: 1.0-25.0mm 1/32"-1"
 刃径尺寸: 1.0-25.0mm 1/32"-1"
 Diameter tolerance: 0~ -0.018, Diameter of shank tolerance: h6
 刃径公差: 0~ -0.021 柄径公差: h7.

Technical feature: Passivation of the cutting edge of the end mill tip to ensure the strength of it;
 High-quality matrix materials and coating extend its use-life and achieve high-quality and high-precision machining.

技术特点: 刀尖刃口的钝化处理, 确保刃口的强度; 优质的基体材质及涂层, 延长刀具寿命, 实现高品质高精度的加工。

According to customer needs, matching the corresponding material of the processing end mill, can accept non-standard customization.

根据客户需求, 匹配对应材料的加工铣刀, 可接受非标定制。

SOLID CARBIDE MULTI FLUTES BALL NOSE END MILL

整体硬质合金多刃球头铣刀



2 / 4 FLUTE



dc Size: 1.0-20.0mm 1/32"-3/4"

刃径尺寸: 1.0-20.0mm 1/32"-3/4"

Diameter tolerance: 0~ -0.018, Diameter of shank tolerance: h6

刃径公差: 0~ -0.018 柄径公差:h6。

Technical feature: 45 degrees large spiral groove, sharper, less cutting resistance.

技术特点: 45度大螺旋槽, 更锋利, 切削阻力更小。

According to customer needs, matching the corresponding material of the processing end mill, can accept non-standard customization.

根据客户需求, 匹配对应材料的加工铣刀,可接受非标定制。



SOLID CARBIDE TAPPER BALL NOSE END MILL

整体硬质合金锥度球头铣刀



2 / 4 FLUTE



dc Size: 4.0-10.0mm 5/32"-3/8"

刃径尺寸: 4.0-10.0mm 5/32"-3/8"

Diameter tolerance: 0~ -0.018, Diameter of shank tolerance: h6

刃径公差: 0~ -0.018 柄径公差:h6。

Technical feature: Very high R corner accuracy.

技术特点: 极高的R圆角精度。

According to customer needs, matching the corresponding material of the processing end mill, can accept non-standard customization.

根据客户需求, 匹配对应材料的加工铣刀,可接受非标定制。



SOLID CARBIDE MULTI FLUTES FLAT END MILL

整体硬质多刃平头铣刀

2 / 4 FLUTE



dc Size: 1.0-20.0mm 1/32"-3/4"

刃径尺寸: 1.0-20.0mm 1/32"-3/4"

Diameter tolerance: 0~ -0.018, Diameter of shank tolerance: h6

刃径公差: 0~ -0.018 柄径公差:h6。

Technical feature: High precision arc angle can prevent chipping during high speed cutting.

技术特点: 高精度圆弧角可防止高速切削时崩刃。

According to customer needs, matching the corresponding material of the processing end mill, can accept non-standard customization.

根据客户需求, 匹配对应材料的加工铣刀,可接受非标定制。



SOLID CARBIDE BALLNOSE END MILL

整体硬质圆鼻铣刀

2 / 4 FLUTE



dc Size: 1.0-20.0mm 1/32"-3/4"

刃径尺寸: 1.0-20.0mm 1/32"-3/4"

Diameter tolerance: 0~ -0.018, Diameter of shank tolerance: h6

刃径公差: 0~ -0.018 柄径公差:h6。

Technical feature: High precision arc angle can prevent chipping during high speed cutting.

技术特点: 高精度圆弧角可防止高速切削时崩刃。

According to customer needs, matching the corresponding material of the processing end mill, can accept non-standard customization.

根据客户需求, 匹配对应材料的加工铣刀,可接受非标定制。



SOLID CARBIDE TAPPING END MILL

整体硬质合金多刃波刃铣刀



5 / 6 / 8 FLUTE



dc Size: 4.0~32.0mm 5/32"~1-1/4"

刃径尺寸: 4.0~32.0mm 5/32"~1-1/4"

Diameter tolerance: 0~ -0.018, Diameter of shank tolerance: h6

刃径公差: 0~ -0.018 柄径公差:h6。

Technical feature: Strong pertinence, high efficiency.

技术特点: 针对性强, 效率高。

According to customer needs, matching the corresponding material of the processing end mill, can accept non-standard customization.

根据客户需求, 匹配对应材料的加工铣刀, 可接受非标定制。



SOLID CARBIDE MICRO MILL

整体硬质合金超小径铣刀



Protection / Ball nose



dc Size: 0.2~0.9mm 1/128"~9/256"

刃径尺寸: 0.2~0.9mm 1/128"~9/256"

Diameter tolerance: 0~ -0.018, Diameter of shank tolerance: h6

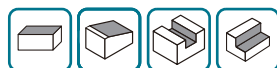
刃径公差: 0~ -0.018 柄径公差:h6。

Technical feature: 35 degree spiral design, reduce cutting resistance, cutting smoothly without chip accumulation.

技术特点: 35度螺旋设计, 减少切削阻力, 切削顺畅不积屑。

According to customer needs, matching the corresponding material of the processing end mill, can accept non-standard customization.

根据客户需求, 匹配对应材料的加工铣刀, 可接受非标定制。



SOLID CARBIDE FORMING TAPS WITH INTERNAL COOLANT

整体硬质合金内冷挤压丝锥

+long shank



Thread Size: M4x0.7 - M30x2mm

螺纹尺寸: M4x0.7 - M30x2mm

Various coating selection, suitable for Aluminum alloy, Magnesium alloy, Copper alloy, Cast Aluminum, Cast Zinc alloy.

搭配不同涂层, 适用于铝合金、镁合金、铜合金、铝合金铸件、锌合金铸件等高精度加工。

Technical feature: Suitable for high-speed, long tool life mass production.

技术特点: 可实现大批量、高速、长寿命加工。

Tolerances under 6HX standard. Other tolerances and Special tap chamfer custom are available. More details.

以上为6HX精度, 其他精度及特殊的切削锥长(引导牙), 部分规格有库存, 也可接受定制。

SOLID CARBIDE FORMING TAPS

整体硬质合金挤压丝锥

+long shank



Thread Size: M0.8x0.2 - M32x2.5mm

螺纹尺寸: M0.8x0.2 - M32x2.5mm

Various coating selection, suitable for Aluminum alloy, Magnesium alloy, Copper alloy, Cast Aluminum, Cast Zinc alloy.

搭配不同涂层, 适用于铝合金、镁合金、铜合金、铝合金铸件、锌合金铸件等高精度加工。

Technical feature: Suitable for high-speed, long tool life mass production.

技术特点: 可实现大批量、高速、长寿命加工。

Tolerances under 6H standard. Other tolerances and Special tap chamfer custom are available. More details.

以上为6H精度, 其他精度及特殊的切削锥长(引导牙), 部分规格有库存, 也可接受定制。

SOLID CARBIDE SPIRAL FLUTED TAPS WITH INTERNAL COOLANT 整体硬质合金内冷螺旋丝锥



+long shank



Thread Size: M4x0.7 – M30x3.5mm

螺纹尺寸: M4x0.7 – M30x3.5mm

Various coating selection, suitable for Aluminum alloy, Magnesium alloy, Copper alloy, Cast Aluminum, Cast Zinc alloy.

搭配不同涂层, 适用于铝合金、镁合金、铜合金、铝合金铸件、锌合金铸件等高精度加工。

Technical feature: Suitable for high-speed, long tool life mass production.

技术特点: 可实现大批量、高速、长寿命加工。

Tolerances under 6HX standard. Other tolerances and Special tap chamfer custom are available. More details.
以上为6HX精度, 其他精度及特殊的切削锥长(引导牙), 部分规格有库存, 也可接受定制。

SOLID CARBIDE SPIRAL FLUTED TAPS 整体硬质合金螺旋槽丝锥



+long shank



Thread Size: M4x0.7 – M30x3.5mm

螺纹尺寸: M4x0.7 – M30x3.5mm

Various coating selection, suitable for Aluminum alloy, Magnesium alloy, Copper alloy, Cast Aluminum, Cast Zinc alloy.

搭配不同涂层, 适用于铝合金、镁合金、铜合金、铝合金铸件、锌合金铸件等高精度加工。

Technical feature: Suitable for high-speed, long tool life mass production.

技术特点: 可实现大批量、高速、长寿命加工。

Tolerances under 6HX standard. Other tolerances and Special tap chamfer custom are available. More details.
以上为6HX精度, 其他精度及特殊的切削锥长(引导牙), 部分规格有库存, 也可接受定制。

SOLID CARBIDE STRAIGHT FLUTED TAPS WITH INTERNAL COOLANT 整体硬质合金内冷直槽丝锥

+long shank



Thread Size: M5x0.8 – M30x3.5mm

螺纹尺寸: M5x0.8 – M30x3.5mm

Various coating selection, suitable for Aluminum alloy, Magnesium alloy, Copper alloy, Cast Aluminum, Cast Zinc alloy.

搭配不同涂层, 适用于铝合金、镁合金、铜合金、铝合金铸件、锌合金铸件等高精度加工。

Technical feature: Suitable for high-speed, long tool life mass production.

技术特点: 可实现大批量、高速、长寿命加工。

Tolerances under 6HX standard. Other tolerances and Special tap chamfer custom are available. More details.
以上为6HX精度, 其他精度及特殊的切削锥长(引导牙), 部分规格有库存, 也可接受定制。

SOLID CARBIDE STRAIGHT FLUTED TAPS 整体硬质合金直槽丝锥

+long shank



Thread Size: M5x0.8 – M30x3.5mm

螺纹尺寸: M5x0.8 – M30x3.5mm

Suitable for gray cast iron, ductile cast iron mass continuous processing threading, high processing accuracy.

适用于灰口铸铁、球墨铸铁材料加工, 加工精度高, 适合大批量连续加工。

Technical feature: excellent wear resistance.

技术特点: 耐磨性能优异。

Tolerances under 6HX standard. Other tolerances and Special tap chamfer custom are available. More details.
以上为6HX精度, 其他精度及特殊的切削锥长(引导牙), 部分规格有库存, 也可接受定制。

SOLID CARBIDE THREAD MILL 整体硬质合金螺纹铣刀



Thread Size: M0.6 – M30 (±0.002)
螺纹尺寸: M0.6 – M30 (±0.002)

Technical feature: Having high processing efficiency, surface quality, and dimensional accuracy; Good stability, safety and reliability, with a wider and more flexible usage and application scenarios, and advantages in processing blind holes.
技术特点: 拥有较高的加工效率、表面质量及尺寸精度; 稳定性好, 安全可靠, 具有更广泛、灵活的使用方式及应用场合, 加工盲孔有优势。

According to customer needs, matching the corresponding material of the processing end mill, can accept non-standard customization.
根据客户需求, 匹配对应材料的加工铣刀, 可接受非标定制。

HSS ROUND DIE / HEXAGON DIE 高速钢圆板牙/高速钢六方板牙



Thread Size: M8 – M66
螺纹尺寸: M8 – M66

High performance dies for energy industry. We can also accept customization for machine taps long length.
用于能源工业的高性能板牙。

Technical feature: Suitable for high-speed, long tool life mass production.
技术特点: 可实现大批量、高速、长寿命加工。

According to customer needs, matching the corresponding material of the processing die, can accept customization.

根据客户需求, 匹配对应材料的加工板牙, 可接受定制。

SOLID CARBIDE LEFT-HAND REAMER 整体硬质合金左旋铰刀



Suitable for materials
适用材料



Diameter Size: 3.0 – 16.0mm 1/8"–5/8"
直径尺寸: 3.0 – 16.0mm 1/8"–5/8"

Technical feature: Reamers Deliver High-Precision Hole Finishes.
技术特点: 提供高精度孔加工。

According to customer needs, matching the corresponding material of the processing reamers, can accept non-standard customization.
根据客户需求, 匹配对应材料的加工铰刀, 可接受非标定制。

SOLID CARBIDE RIGHT-HAND REAMER 整体硬质合金右旋铰刀



Suitable for materials
适用材料



Diameter Size: 3.0 – 16.0mm 1/8"–5/8"
直径尺寸: 3.0 – 16.0mm 1/8"–5/8"

Technical feature: Reamers Deliver High-Precision Hole Finishes.
技术特点: 提供高精度孔加工。

According to customer needs, matching the corresponding material of the processing reamers, can accept non-standard customization.
根据客户需求, 匹配对应材料的加工铰刀, 可接受非标定制。

SOLID CARBIDE THREADED DRILL

整体硬质合金螺纹接口钻头



dc Size: 3.18-10.72mm 1/8"-7/16"
直径尺寸: 3.18-10.72mm 1/8"-7/16"
Diameter tolerance: h7

刃径公差: h7.

Technical feature: For composite materials in aerospace industry and various harsh and complex conditions, it meets the requirements of high precision, ultra-high precision and high stability.

技术特点: 针对航空航天行业复合材料, 以及各类恶劣复杂条件, 满足高精度、超高精度、高稳定性要求。

According to customer needs, can accept non-standard customization.

根据客户需求, 可接受非标定制。

Suitable for materials / 被加工材料				
Aluminium alloy 铝合金	Titanium alloy 钛合金	Stainless steel 不锈钢	Alloy steel 合金钢	CFRP
●	●	●	●	

● Recommend/推荐 ○ Suitable/合适

SOLID CARBIDE THREADED REAMER

整体硬质合金螺纹接口铰刀



dc Size: 3.18-10.72mm 1/8"-7/16"
直径尺寸: 3.18-10.72mm 1/8"-7/16"
Diameter tolerance: h7

刃径公差: h7.

Technical feature: For composite materials in aerospace industry and various harsh and complex conditions, it meets the requirements of high precision, ultra-high precision and high stability.

技术特点: 针对航空航天行业复合材料, 以及各类恶劣复杂条件, 满足高精度、超高精度、高稳定性要求。

According to customer needs, can accept non-standard customization.

根据客户需求, 可接受非标定制。

Suitable for materials / 被加工材料				
Aluminium alloy 铝合金	Titanium alloy 钛合金	Stainless steel 不锈钢	Alloy steel 合金钢	CFRP
●	●	●	●	

● Recommend/推荐 ○ Suitable/合适

SOLID CARBIDE DOUBLE FLUTE COUNTERSINK

整体硬质合金双刃锪窝钻



dc Size: 11.1-25.4mm 7/16"-1"
直径尺寸: 11.1-25.4mm 7/16"-1"
Thread size: 2.38-12.7mm 3/32"-1/2"
螺纹直径: 2.38-12.7mm 3/32"-1/2"

Technical feature: For composite materials in aerospace industry and various harsh and complex conditions, it meets the requirements of high precision, ultra-high precision and high stability.

技术特点: 针对航空航天行业复合材料, 以及各类恶劣复杂条件, 满足高精度、超高精度、高稳定性要求。

According to customer needs, can accept non-standard customization.

根据客户需求, 可接受非标定制。

Suitable for materials / 被加工材料				
Aluminium alloy 铝合金	Titanium alloy 钛合金	Stainless steel 不锈钢	Alloy steel 合金钢	CFRP
●	●	●	●	

● Recommend/推荐 ○ Suitable/合适

PCD DOUBLE FLUTE COUNTERSINK

PCD双刃锪窝钻



dc Size: 11.1-25.4mm 7/16"-1"
直径尺寸: 11.1-25.4mm 7/16"-1"
Thread size: 2.38-12.7mm 3/32"-1/2"
螺纹直径: 2.38-12.7mm 3/32"-1/2"

Technical feature: For composite materials in aerospace industry and various harsh and complex conditions, it meets the requirements of high precision, ultra-high precision and high stability.

技术特点: 针对航空航天行业复合材料, 以及各类恶劣复杂条件, 满足高精度、超高精度、高稳定性要求。

According to customer needs, can accept non-standard customization.

根据客户需求, 可接受非标定制。

Suitable for materials / 被加工材料				
Aluminium alloy 铝合金	Titanium alloy 钛合金	Stainless steel 不锈钢	Alloy steel 合金钢	CFRP
●	●	●	●	

● Recommend/推荐 ○ Suitable/合适

SOLID CARBIDE DIAMOND COATED FINE NICK ROUTE

整体硬质合金金刚石涂层菱齿铣刀



dc Size: 4-12mm 5/32"-15/32"
直径尺寸: 4-12mm 5/32"-15/32"
Shank tolerance: h6

柄径公差: h6。

Technical feature: For composite materials in aerospace industry and various harsh and complex conditions, it meets the requirements of high precision, high durability, ultra-high precision and high stability.

技术特点: 针对航空航天行业复合材料, 以及各类恶劣复杂条件, 满足高精度、超高精度、高耐久性、高稳定性要求。

According to customer needs, can accept non-standard customization.

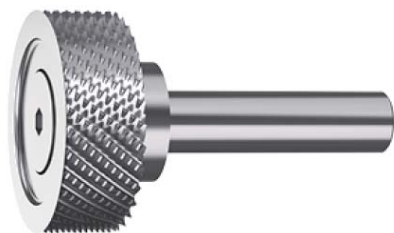
根据客户需求, 可接受非标定制。

Suitable for materials / 被加工材料				
Aluminium alloy 铝合金	Titanium alloy 钛合金	Stainless steel 不锈钢	Alloy steel 合金钢	CFRP
				●

● Recommend/推荐 ○ Suitable/合适

SOLID CARBIDE THREADED REAMER

整体硬质合金粉碎体+圆刀片



dc Size: 12.7-76.2mm 1/2"-3"
直径尺寸: 12.7-76.2mm 1/2"-3"

Shank tolerance: h6
柄径公差: h6。

Technical feature: For composite materials in aerospace industry and various harsh and complex conditions, it meets the requirements of high precision, ultra-high precision and high stability.

技术特点: 针对航空航天行业复合材料, 以及各类恶劣复杂条件, 满足高精度、超高精度、高稳定性要求。

According to customer needs, can accept non-standard customization.

根据客户需求, 可接受非标定制。

Suitable for materials / 被加工材料				
Aluminium alloy 铝合金	Titanium alloy 钛合金	Stainless steel 不锈钢	Alloy steel 合金钢	CFRP
				●

● Recommend/推荐 ○ Suitable/合适

SOLID CARBIDE STRAIGHT FLUTE CARBON FIBER DRILL BITS

整体硬质合金直槽钻头



dc Size: 2.49-12.7mm 1/10"-1/2"
直径尺寸: 2.49-12.7mm 1/10"-1/2"

Technical feature: For composite materials in aerospace industry and various harsh and complex conditions, it meets the requirements of high precision, ultra-high precision and high stability.

技术特点: 针对航空航天行业复合材料, 以及各类恶劣复杂条件, 满足高精度、超高精度、高稳定性要求。

According to customer needs, can accept non-standard customization.

根据客户需求, 可接受非标定制。

Suitable for materials / 被加工材料				
Aluminium alloy 铝合金	Titanium alloy 钛合金	Stainless steel 不锈钢	Alloy steel 合金钢	CFRP
				●

● Recommend/推荐 ○ Suitable/合适

SOLID CARBIDE TAPER FLUTE CARBON FIBER DRILL BITS

整体硬质合金斜槽钻头



dc Size: 2.49-12.7mm 1/10"-1/2"
直径尺寸: 2.49-12.7mm 1/10"-1/2"

Technical feature: For composite materials in aerospace industry and various harsh and complex conditions, it meets the requirements of high precision, ultra-high precision and high stability.

技术特点: 针对航空航天行业复合材料, 以及各类恶劣复杂条件, 满足高精度、超高精度、高稳定性要求。

According to customer needs, can accept non-standard customization.

根据客户需求, 可接受非标定制。

Suitable for materials / 被加工材料				
Aluminium alloy 铝合金	Titanium alloy 钛合金	Stainless steel 不锈钢	Alloy steel 合金钢	CFRP
				●

● Recommend/推荐 ○ Suitable/合适

CARBIDE/CERMET COATED METAL CUTTING COLD SAW BLADE 硬质合金/金属陶瓷涂层铁工冷锯



+STAINLESS STEEL

Size: 250-730mm 9-27/32"~28-3/4"规格: 250-730mm

- ★ Benefit: High hardness, strong toughness, wear resistance, impact resistance, wide application range, long service life.

产品特点: 硬度高、韧性强、耐磨损、抗冲击、应用范围广, 使用寿命长。

Parameter: V=50m/min - 70m/min, Sz=0.025mm-0.060mm

锯切参数: 高精金属圆锯机

V=50m/min - 200m/min, Sz=0.025mm-0.12mm

Material: Cermet Coated / Black Coated

刀片材质: 金属陶瓷 / 黑色涂层

- ★ Benefit: Special for stainless steel

产品特点: 不锈钢专用锯片

Parameter: V=50m/min - 70m/min, Sz=0.025mm-0.060mm

锯切参数: 高精金属圆锯机

V=50m/min - 70m/min, Sz=0.025mm-0.060mm

Material/刀片材质: Carbide Coated / 硬质合金涂层

According to customer needs, matching the corresponding material of the processing blade, can accept non-standard customization.

根据客户需求, 匹配对应材料的加工锯片, 可接受非标定制。

MANUAL COLD SAW BLADE 手持式冷锯片



Size: 255-405mm 10-1/32"~15-61/64" 规格: 255-405mm

Benefit:

- 1, Cermet teeth, harder and sharper.
- 2, Higher feeding speed and longer life, low cost per cut.
- 3, Low noise and dust-free, healthy working environment.
- 4, Smooth cutting surface and burr-free, eliminating the burring process.
- 5, Multipurpose, suitable for bar steel/channel steel/angle steel/H steel/profile steel/deformed steel bar/copper/aluminum.

产品特点:

- 1, 陶瓷刀头, 更锋利更耐久。
- 2, 速度快, 寿命长, 综合成本更低。
- 3, 无噪音无粉尘, 工作环境更健康。
- 4, 切面光洁无毛边, 节省去毛刺工序。
- 5, 应用范围广, 可锯切圆钢、槽钢、角铁、螺纹钢、工字钢、异型钢、铜、铝等各种材料。

According to customer needs, matching the corresponding material of the processing blade, can accept non-standard customization.

根据客户需求, 匹配对应材料的加工锯片, 可接受非标定制。

SOLID CARBIDE SLITTING SAW BLADE 整体硬质合金锯片铣刀



Size: 5-160mm 3/16"~6-19/64"

规格: 5-160mm 3/16"~6-19/64"

Benefit:

Recommended for slotting the fragile and hard materials which make short chips, suitable for cutting thin-walled profiles.

产品特点:

适用于易碎、坚硬、切屑短的材料开槽, 适用于薄壁型材的切割。材料。



According to customer needs, matching the corresponding material of the processing blade, can accept non-standard customization.

根据客户需求, 匹配对应材料的加工锯片, 可接受非标定制。

ALUMINUM STEP FORMING FINISHING MILLS 铝合金阶梯成型精铣刀

Benefit:

- 1, Ultra-fine grains, high hardness, strong toughness tool materials.
- 2, Special anti-vibration and anti-wear tool structure design.
- 3, High tool surface quality, precision grinding process.
- 4, Microscopic passivation technology for tool edge.

产品特点:

- 1, 超细晶粒、高硬度、强韧性工具材料;
- 2, 特殊抗振、抗磨损刀具结构设计;
- 3, 刀具表面高光、精密磨削工艺;
- 4, 刀具刃口微观钝化技术。

According to customer needs, matching the corresponding material of the processing mill, can accept non-standard customization.

根据客户需求, 匹配对应材料的加工铣刀, 可接受非标定制。



TURNING TOOLS / 车削刀具

General Turning / 一般车削

1. CVD Coated Carbide - Extremely wear-resistance Steel - Turning CVD Grade-CP1105. / CVD涂层-极耐磨钢-车削CVD等级- CP1105.
 - Superfine Al₂O₃ and MT-TiCN coating on gradient carbide substrate provide excellent wear resistance. / 镀有超细Al₂O₃和MT-TiCN涂层, 优异的耐磨性。
 - Suitable for finishing of steel & alloy steel under stable condition. / 适用于钢及合金钢在稳定条件下的精加工。
2. CVD Coated Carbide - High versatility Cast Iron Turning CVD Grade-CK1015. / CVD涂层-高通用性铸铁车削CVD等级- CK1015.
 - MT-TiCN and thick Al₂O₃ coated on micrograin carbide substrate. Special postprocessing with excellent edge strength and ensure the stability of cutting. / 在微晶碳化物基体上涂覆MT-TiCN和Al₂O₃, 特殊处理后, 具有优异的刀口强度, 保证切削的稳定性。
 - Application: Suitable for finishing and semi-finishing of nodular irons and gray irons, in continuous and light interrupted conditions. 用途: 适用于球墨铸铁和灰铸铁的终加工和半精加工, 适用于连续和轻度间断的条件。
3. PVD Coated Carbide - High versatility Stainless Steel Turning PVD Grade-CM3020 / PVD涂层碳化物-高通用性不锈钢车削PVD等级- CM3020
 - Optimized combination of TiAlN coating and micro-grain carbide substrate with high Co content provide superior adhesion resistance and toughness. TiAlN涂层与高Co含量的微晶碳化物基体的优化组合, 提供了优异的粘附性能和韧性。
 - Application: Suitable for semi-finishing of stainless steels and threading of general materials. / 用途: 适用于不锈钢的半精加工和一般材料的螺纹加工。

PARTING AND GROOVING TOOLS / 切断和开槽刀具

1. TM Grooving and turning 2.0-8.0(mm)
2. GF Precision grooving and turning 3.0-6.0(mm)

THREADING TOOLS / 螺纹刀具

1. ISO Metric 60° External & Internal Pitch 1.0-5.0(mm)
2. Partial Profile 60° External & Internal Pitch 0.5-5.0(mm)
3. Partial Profile 55° External & Internal Pitch 48-5(TPI)
4. UN External & Internal Pitch 24-8(TPI)
5. Whitworth(W) External & Internal Pitch 19-11(TPI)
6. NPT External & Internal Pitch 27-8(TPI)
7. BSPT External & Internal Pitch 28-11(TPI)
8. Round (RD) (DIN 405) External & Internal Pitch 10-4(TPI)

PROCESSING WORKSHOP / 加工车间



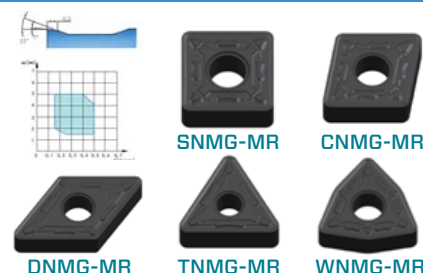
Application Summary of Turning Grades / 车削等级的应用总结

ISO TURNING TOOLS	P Steel					K Cast Iron					M Stainless Steel					N Nonferrous Metal					S HRSA				
	P01	P10	P20	P30	P40	K01	K10	K20	K30	K40	M01	M10	M20	M30	M40	N01	N10	N20	N30	N40	S01	S10	S20	S30	S40
Coated Carbide	CP1005	CP1015	CP1025	CP1030		CK1015	CK1020																		
													CM3020	CM3025								CS3015	CS3025		
Uncoated Carbide																	CN9015	CN9020					CS9025		
Cermet	CP90TF																								

TM Grooving and turning Width:2.0-8.0(mm)
TM 开槽和车削 / 宽度 :2.0-8.0(mm)



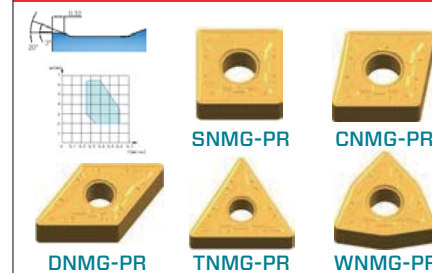
- MR for rough cutting action of Stainless
- MR用于不锈钢的粗切作业。



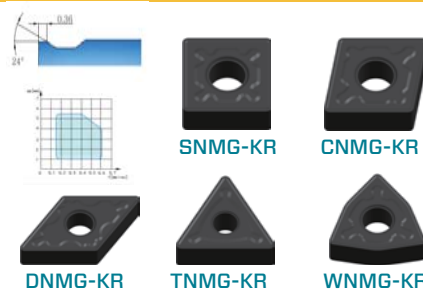
GF Precision grooving and turning/Width:3.0-6.0(mm)
GF 精密开槽和车削 / 宽度 :3.0-6.0(mm)



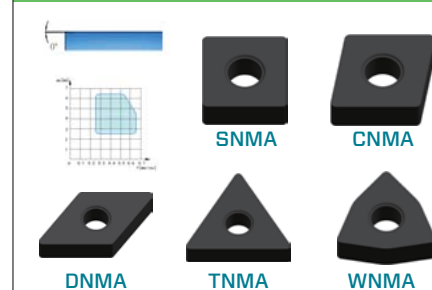
- PR for rough cutting action of carbon steel, cast steel and alloy steel.
- MR用于碳钢、铸钢、合金钢的粗切作业。



- KR for cast iron heavy cutting.
- Strong cutting edge and wide land for improved performance.
- KR适用铸铁重切削, 强力刃口和宽阔切面提高性能。



- Without chipbreaker. • For Cast Iron.
- Stable placement.
- 无断屑/适用于铸铁/稳定夹持。



- Range of PCBN Tuening Inserts
- PCBN 车削刀片范围



- Range of PCD Turning Inserts
- PCD车削刀片范围



CORTOOL Coating Advantages CORTOOL涂层优势

High abrasive resistance 耐磨性高
Excellent coating density 涂层致密
Low friction coefficient 摩擦系数低
Environment friendly 环保

The coating temperature is lower than most steels tempering temperature.

涂层工艺温度低于大多数钢材的最终热处理回火温度。

Do not affect the size of the parts as the coating thickness can be controlled precisely by micron.

涂层厚度能精确控制在微米级，不影响零件尺寸。

Flexible solutions of a single coating or composite coating to meet customer demand.

根据客户需求，灵活选择单一涂层或复合涂层，满足客户需求。

Application Areas Of CORTOOL Coating CORTOOL涂层应用范围

CORTOOL coating can be widely used in the fields of al cutting tools, dies and components,etc.

CORTOOL涂层可广泛用于金属切削刀具、模具、零部件等领域。

Metal cutting tools: shank tools, inserts, hobs.

金属切削刀具：各杆状类刀具、刀片、滚刀。

Dies: punching and forming molds, plastic molds, casting dies.

模具：冲压成型模具，塑胶模具，压铸模具。

Components: Friction parts require wearing resistance, anti-corrosion or without lubrication.

零部件：需要耐磨防腐以及无油润滑的摩擦件。

Coating Types

Coating Types	Structure	Main Ingredient	Colour	HV	Coefficient Of Friction	Working Temperatur	Thickness
Super I	Monolayer	TiN	Gold	2200	0.4	700	2-3um
Super F	Monolayer	TiAlN	Blue Black	3300	0.4	900	2-3um
Super T	Monolayer +top	TiAlN	Blue Black	3300	< 0.3	900	2-3um
Super J	Multi-layer	C based	Grey	2300	< 0.3	700	1.5um
Super H	Multi-layer	Si based	Copper	3400	< 0.4	1100	1.5-3um
Die composite coating	Multi-layer	AlCr based	Grey	3300	< 0.4	1100	1.5-4um
Super X	Monolayer	AlCr based	Black	3300	< 0.4	1100	1.5-4um
Super C	Monolayer	AlCr based	Grey	3300	< 0.4	1100	1.5-4um
DLC Coating	Multi-layer	C based	Black	2200	< 0.05	350	1-3um 3-5um
XT Coating	Multi-layer	TiAlN based	Blue Black	3300	< 0.3	1000	1.5-3um

Contact us for the best coating solutions.

Code	Range of application-material 应用范围 (材料)	Material examples 材料举例
P	Steel material 钢件材料	
	1.1 Cold-extrusion steels 冷轧钢	DC01,SPCE,ST15
	Low-carbon steels 低碳钢	S235JR,(S137-2),20#,1008
	Free-cutting steels,etc. 易切钢等	10SPb20,Y15Pb,SUN23
	2.1 Construction steels 结构钢	E360,(S170-2),20Cr,MnTi
	Case-hardened steels 渗碳钢、表面硬化钢	16MnCr5
	Steel casting,etc. 铸钢等	GS-25CrMo4,ZG1Cr13,C47H
	3.1 Case-hardened steels 渗碳钢、表面硬化钢	20MnCr3,SCM415,SAE5120
	Heat-treated steels 调质钢	42CrMo4,4135
	Mid or high carbon steels, etc. 中、高碳素钢等	102Cr6,CK45,70#
M	Heat-treatable steels 特殊热处理钢	50CrMo4,35CrMoV
	4.1 Cold work steels,etc. 冷作工具钢	X45NiCrMo4
	Nitriding steels,etc. 渗氮钢等	31CrMo12,38CrMoAl
	High-alloyed steels 高合金钢	X38CrMoV5-3,80S2MnA,50CrVA
	5.1 Hot work steels 热作工具钢	X100CrMoV8-1,1.85CrNiTi4
	Mold steels,etc. 模具钢等	Cr9WMoVSi,20Cr2Mo2WVNiCo
	Stainless steel materials 不锈钢材料	
	1.1 Ferritic, martensitic 铁素体结构、马氏体结构	X2CrTi12,SS439,SS45,9Cr18
	2.1 Austenitic 奥氏体结构	X6CrNiMoTi17-12-2,0Cr18Ni9,SS316
	3.1 Austenitic-ferritic(Duplex) 奥氏体-铁素体结构	X2CrNiMoN22-5-3,00Cr23Ni4N,SAF2507
K	4.1 Austenitic-ferritic(Super Duplex) 奥氏体-马氏体耐热钢	UNS S32550,S32750,00Cr25Ni7Mo4N
	Cast materials 铸铁材料	
	1.1 Cast iron with lamellar graphite(GJL)片状石墨铸铁	EN-GJL-200(GG20),HT250
	1.2 Cast iron with nodular graphite(GJS) 球墨铸铁	EN-GJL-300(GG30),HT350
	2.1 Cast iron with nodular graphite(GJS) 球墨铸铁	350-500N/mm²
	2.2 Cast iron with nodular graphite(GJS) 球墨铸铁	500-900N/mm²
	3.1 Cast iron with vermicular graphite(GJV) 蠕墨铸铁	EN-GJS-400-15(GGG40),QT400
	3.2 Cast iron with vermicular graphite(GJV) 蠕墨铸铁	EN-GJS-700-2(GGG70),QT700
	4.1 Cast iron with vermicular graphite(GJV) 蠕墨铸铁	GJV300,RuT380
	4.2 Cast iron with vermicular graphite(GJV) 蠕墨铸铁	400-500N/mm²
N	Malleable cast iron(GTMW,GTMB) 可锻铸铁	GJV450,RuT420
	5.1 Malleable cast iron(GTMW,GTMB) 可锻铸铁	EN-GJMW-350-4(GTW-35),KTH330
	5.2 Malleable cast iron(GTMW,GTMB) 可锻铸铁	500-800N/mm²
	5.3 Malleable cast iron(GTMW,GTMB) 可锻铸铁	EN-GJMB-450-6(GTS-45),KTZ700
	Non-ferrous materials 有色金属	
	1.1 Aluminium alloys 铝合金	
	1.2 Fine aluminium 纯铝	A199,98R,1A99
	1.3 Wrought aluminium alloys 形变铝合金	EN AW-ALMgSi,2A80,AK8
	1.4 Casting aluminium alloys 铸铝合金	EN AW-AZn5Mg3Cu,6061,7075
	1.5 Casting aluminium alloys 铸铝合金	EN AC-ALMg5,ZL101
S	1.6 Casting aluminium alloys 铸铝合金	7% < Si ≤ 12% 12% < Si ≤ 17% EN AC-AISi9Cu3,ZAISi12,ZL111 GD-AISi17Cu4FeMg,ADC14
	Copper alloys 铜合金	
	2.1 Pure copper,low-alloyed copper 纯铜、低合金铜	E-Cu 57
	2.2 Copper-zinc alloys(brass,long-clipping) 铜锌合金	CuZn37(Ms63)
	2.3 Copper-zinc alloys(brass,short-clipping) 铜锌合金	CuZn36Pb3(Ms58)
	2.4 Copper-aluminium alloys(alu bronze,long-clipping) 铜铝合金	CuAl10Ni5Fe4
	2.5 Copper-tin alloys(tin bronze,long-clipping) 铜锡合金	CuSn8P
	2.6 Copper-tin alloys(tin bronze,short-clipping) 铜锡合金	CuSn7 ZnPb(Rg7)
	2.7 Special copper alloys 特殊铜合金	(AMPCO®8)
	2.8 Special copper alloys 特殊铜合金	(AMPCO®45)
H	Magnesium alloys 镁合金	
	3.1 Wrought magnesium alloys 锻镁合金	MgAl6Zn
	3.2 Casting magnesium alloys 铸镁合金	EN-MCMgAl9Zn1
	Synthetics 合成材料	
	4.1 Duroplastics(short-chipping) 热固性塑料 (短屑)	Bakelit,Pertinax
	4.2 Thermoplastics(long-clipping) 热塑性塑料 (长屑)	PMMA,POM,PVC
	4.3 Fibre-reinforced synthetics(fibre contents>30%) 纤维强化合成材料 (纤维含量>30%)	GFK,CFK,AFK
	4.4 Fibre-reinforced synthetics(fibre content > 30%) 纤维强化合成材料 (纤维含量 > 30%)	GFK,CFK,AFK
	Special materials 特殊材料	
	5.1 Graphite 石墨	C 8000
H	Special materials 特殊材料	
	Titanium alloys 钛合金	
	1.1 Pure titanium 纯钛	Ti1
	1.2 Titanium alloys 钛合金	TiAl6V4
	1.3 Titanium alloys 钛合金	TiAl4Mo4Sn2
	Nickel alloys,cobalt alloys and iron alloys 镍基合金、钴基合金和铁基合金	
	2.1 Pure nickel 纯镍	Ni 99.6
	2.2 Nickel-based alloys 镍基合金	Monel 400
	2.3 Nickel-based alloys 镍基合金	Inconel 718
	2.4 Cobalt-based alloys 钴基合金	Udimet 605
H	2.5 Iron-based alloys 铁基合金	Haynes 25
	2.6 Iron-based alloys 铁基合金	Inconel 800
	Hard materials 硬材料	
	1.1 Hard materials 硬材料	44-50HRC
	1.2 Hard materials 硬材料	50-55HRC
	1.3 Hard materials 硬材料	55-60HRC
	1.4 Hard materials 硬材料	60-63HRC
	1.5 Hard materials 硬材料	63-66HRC
	Hard materials 硬材料	Weldox 1100
	Hard materials 硬材料	Hardox 550
H	Hard materials 硬材料	Armax 600T
	Hard materials 硬材料	Ferro-Titanit
	Hard materials 硬材料	HSSE
	Hard materials 硬材料	
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