



NOAHS ARK PRECISION INDIA PVT LTD

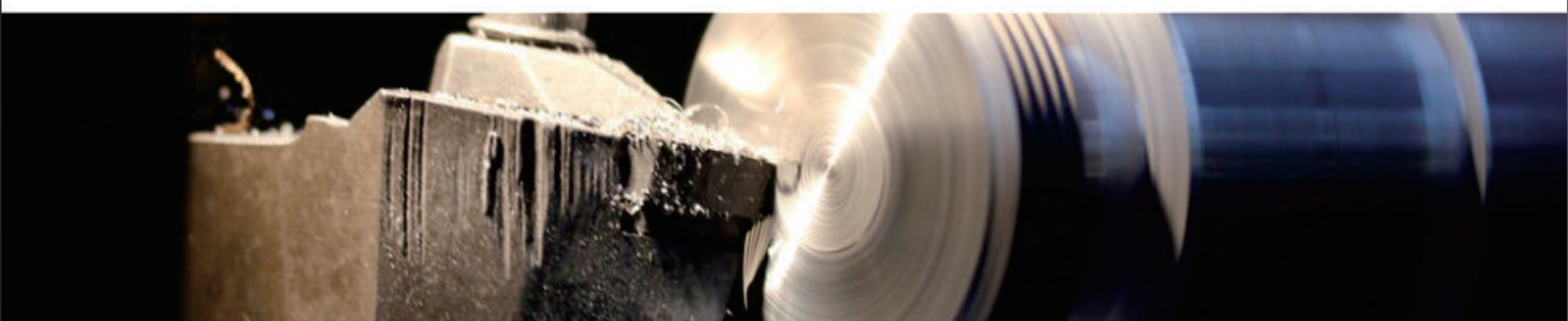


**SOLID END MILLS**

**整体硬质合金立铣刀**  
**SOLID CARBIDE ENDMILLS**



NOAHS ARK PRECISION INDIA PVT LTD



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## TM 550 通用加工立铣刀 General Machining End Mill

- 适用于普通钢、铸铁材料的加工
- 采用高性能TiSin涂层，耐高温、耐磨损
- 采用细晶粒硬质合金基材
- High performance TiSin coating
- High temperature resistance and high wear resistance
- Ultra- fine grained carbide material



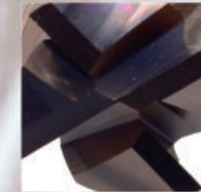
- 采用超细硬质合金基材
- 特殊切刃和高性能TiSin 涂层，从而实现高精度、长寿命加工
- Ultra-fine cemented carbide substrate
- Special cutting edge and high performance TiSin coating to achieve high precision, long life processing

特殊顶端形状实现良好的切削效果

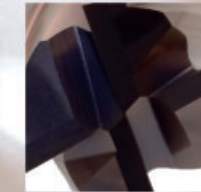
Special end shape achieves good cutting results

弓形R刃分散切削阻力抑制切刃的磨损

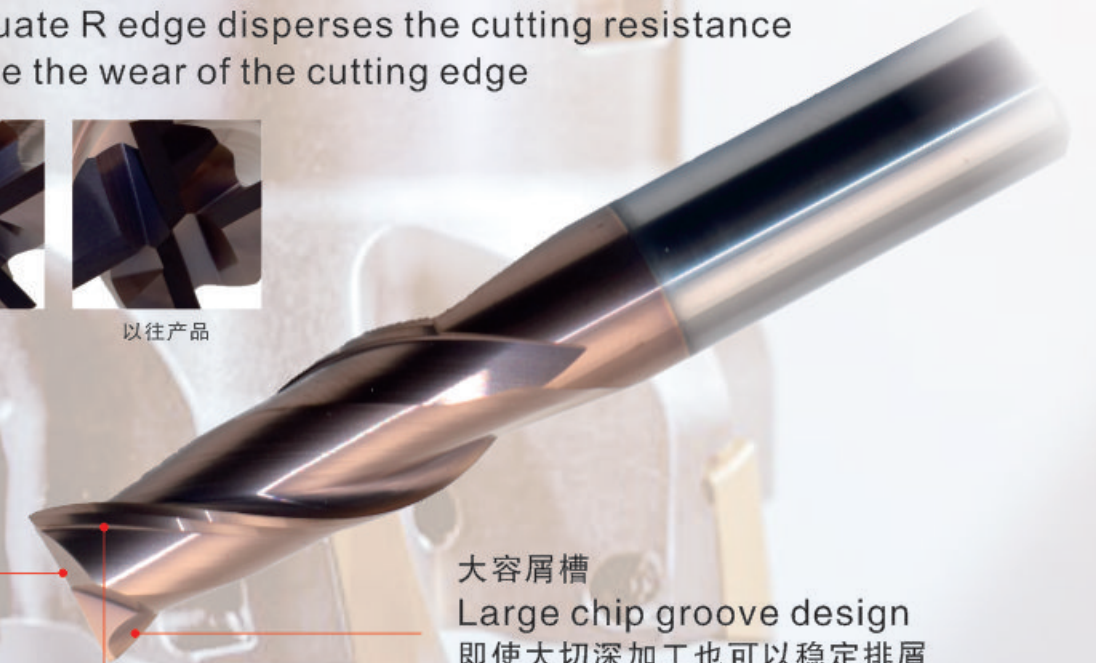
The arcuate R edge disperses the cutting resistance to reduce the wear of the cutting edge



TM-B2



以往产品



大容屑槽

Large chip groove design

即使大切深加工也可以稳定排屑

Stable chip removal even in deep cutting

高质量刃面

High quality blade surface

平滑锋利的切刃，优异的耐磨性和耐熔着性

Smooth and sharp cutting edge

Excellent wear resistance and fusion resistance

## TM 系列各种钢材的通用加工

### General processing of various steels

- 适用于低合金钢、淬火钢、铸铁等材料的加工
- 采用高性能TiSin 涂层，耐高温、耐磨损
- 采用超细硬质合金基材
- Suitable for low alloy steel, hardened steel, cast iron and other materials.
- High-performance TiSin coating, high temperature resistance, wear resistance,
- Ultra-fine cemented carbide substrate



特殊角度设计，刃口强度极高，通用性更强

Special angle design and high edge strength ensures stronger versatility

各种钢材的通用加工，抗粘刀能力强，提升刀具寿命  
不等分特殊刀形设计，减少加工震动

General processing of various steels

Strong anti-sticking ability, improve tool life

Unequal special edge design, reduce machining vibration

#### 产品特点

##### Features

- 不规则的分度角  
Irregular indexing angle
- 不规则的槽间距：减少振动  
irregular flute spacing : Decreased vibration
- 大螺旋角  
irregular helix angle
- 振动小，有效加工，提高生产效率  
Improved productivity with effective machining due to less vibration

## Em高性能系列 EM HIGH PERFORMANCE

### EM 高硬高效加工立铣刀

### EM High hardness and high efficiency machining end milling cutter

#### Variable Helix 不等螺旋

- 适用于高硬度钢件的高效加工
- 不等螺旋角、不等齿距设计，拥有卓越的抗震能力
- 适用于大切深、大切宽的高效切屑（机床刚性好）
- Suitable for high-hardness steel high efficiency processing
- Unequal spiral angle, unequal pitch design, has excellent vibration resistance
- Suitable for high efficiency cutting with large cutting depth and width (good rigidity of machine tool)



不等螺旋角，卓越的抗震能力  
Unequal helical angle, excellent vibration resistance

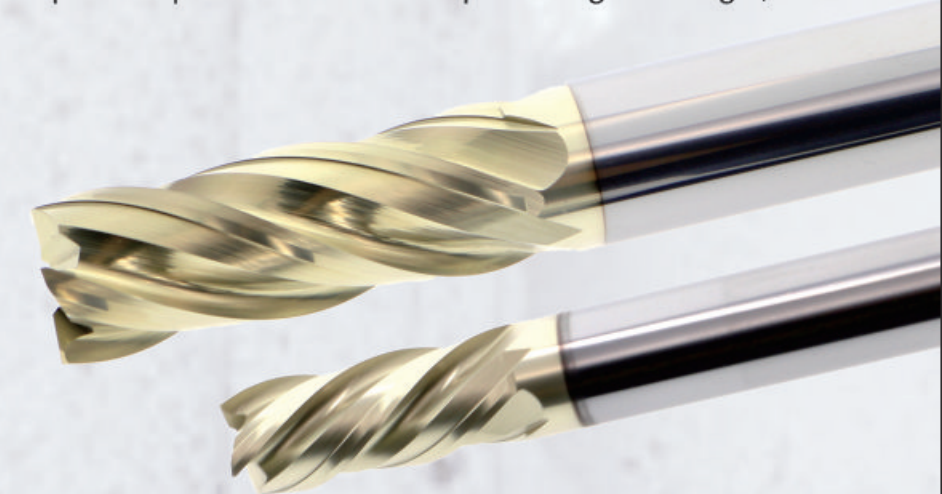
各种软钢、硬钢、不锈钢、钛合金的高速高效加工  
不等分特殊刀形和螺旋角设计，减少加工震动

High speed and high efficiency machining of various soft steel, hard steel, stainless steel, titanium alloy. Unequal & special knife and spiral angle design, reduce machining vibration.

#### 产品特点 Features

- 不规则的分度角  
Irregular indexing angle
- 不规则的槽间距：减少振动  
irregular flute spacing: Decreased vibration
- 不等螺旋角  
irregular helix angle
- 不规则的螺旋角：抑制震动，完成面良好  
Irregular spiral angle: vibration suppression, good finish surface.
- 振动小，有效加工，提高生产效率  
Improved productivity with effective machining due to less vibration
- 槽型经过特殊设计，能够更好的改善切屑流动和卷曲，以及降低切屑力  
The groove is specially designed to better improve chip flow and curl, and reduce cutting force

#### 加工效果 Machining Effect



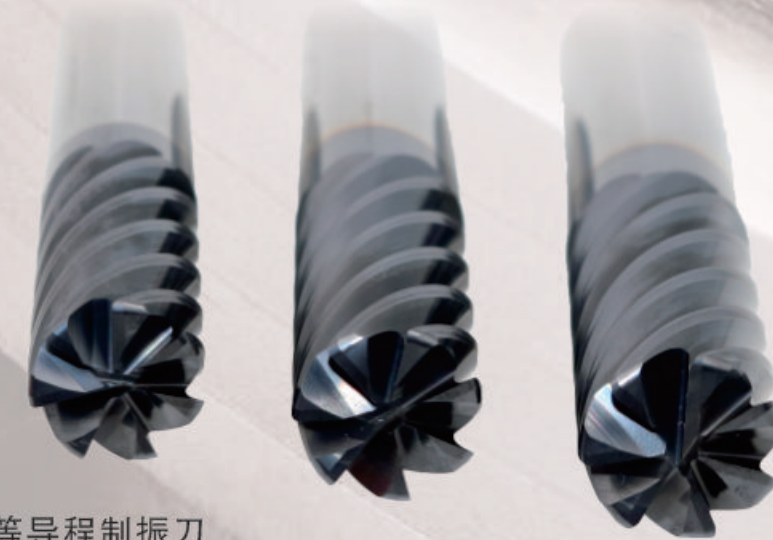
## XM超高硬高效系列

# XM Ultra-high hardness and high efficiency end mills series

- 底刃不等分，螺旋角不等分设计，减少振动，加工表面光洁度高
- 特殊的刀具设计，非常适合加工各种难加工硬钢
- Variable bottom edges and helix angles to reduce vibration and improve the surface finish.
- The special tool design is suitable for high hardness steels processing.



高硬钢材料的加工  
 抗振刀性能强，可实现稳定加工  
 Processing of high hard steel materials  
 Strong vibration resistance and stable machining can be achieved



- ▶ 不等分割，不等导程制振刀  
 Unequal segmentation, unequal lead suppression vibration cutter
- 大幅度抑制振动，可实行稳定加工  
 Vibration can be greatly suppressed and stable machining can be realized
- 台阶加工、边角部分也能顺利加工  
 Step processing, corner part can also be processed smoothly
- ▶ 稳定的排屑量，芯厚大，高刚性  
 Stable chip discharge. Core thick, high rigidity
- 在切槽，高进给加工中发挥威力  
 Play power in cutting groove and high feed processing
- 抗振刀性，抗弯能力强  
 Strong resistance to vibration and bending

# SM 系列

## 不锈钢通用加工立铣刀

### Stainless steel general processing end mill

- 适用于不锈钢的通用加工
- 特殊刃口设计，有效解决刀具刃口粘屑问题
- 不锈钢专用涂层，切削流畅，抗粘刀能力强，提升刀具寿命
- Suitable for general processing of stainless steel
- Sprical cutting edge design. Effectively solve the problem of cutting edge chip sticking
- Stainless steel special coating, cutting smooth, anti-stick tool ability, improve tool life



不等分特殊刀形，减少震动，表面光洁度高  
 Unequal special knife shape, reduce vibration, high surface finish  
 刃口钝化，提高刀具寿命和工件表面光洁度  
 Improve tool life and workpiece surface finish

不锈钢的通用加工，抗粘刀能力强，提升刀具寿命  
 不等分特殊刀形设计，减少加工震动  
 General purpose processing of stainless steel  
 Strong anti-stick tool ability, improve tool life  
 Non-uniform special tool design, reduce machining vibration

#### 产品特点 Features

- 不规则的分度角  
Irregular indexing angle
- 不规则的槽间距：减少振动  
irregular flute spacing: Decreased vibration
- 不等螺旋角  
irregular helix angle
- 不规则的螺旋角：抑制震动，完成面良好  
Irregular spiral angle: vibration suppression, good finish surface.
- 振动小，有效加工，提高生产效率  
Improved productivity with effective machining due to less vibration

#### SM立铣刀的优点 Advantage of SM Endmill

- 较高的切削速度和进给量可提高生产率  
Higher cutting speed and feed rate increase productivity
- 振动小，表面光洁度好，加工质量高  
Less vibration realizes excellent surface finish and higher quality machining



# AL 系列

## 超亮铝加工立铣刀

### Super bright aluminum processing series



#### 高光 HIGHLIGHT

- 适用于铝合金材料的高效超亮加工
- 底刃变分度、独特螺旋角设计，拥有卓越的抗震性能，加工表面精度高
- Suitable for high efficient and super bright processing of aluminum alloy materials
- Variable helix angle and differential flute pitch, reduces and eliminates vibration. High precision of machined surface.



实现高效率，高精度加工的3刃立铣刀  
有效的切削效果与高耐振刀性能兼顾。多种加工中发挥高稳定性  
Achieve high-efficiency & high-precision machining for 3-flute end mill  
Excellent cutting effect and high vibration resistance  
High stability in a variety of processing

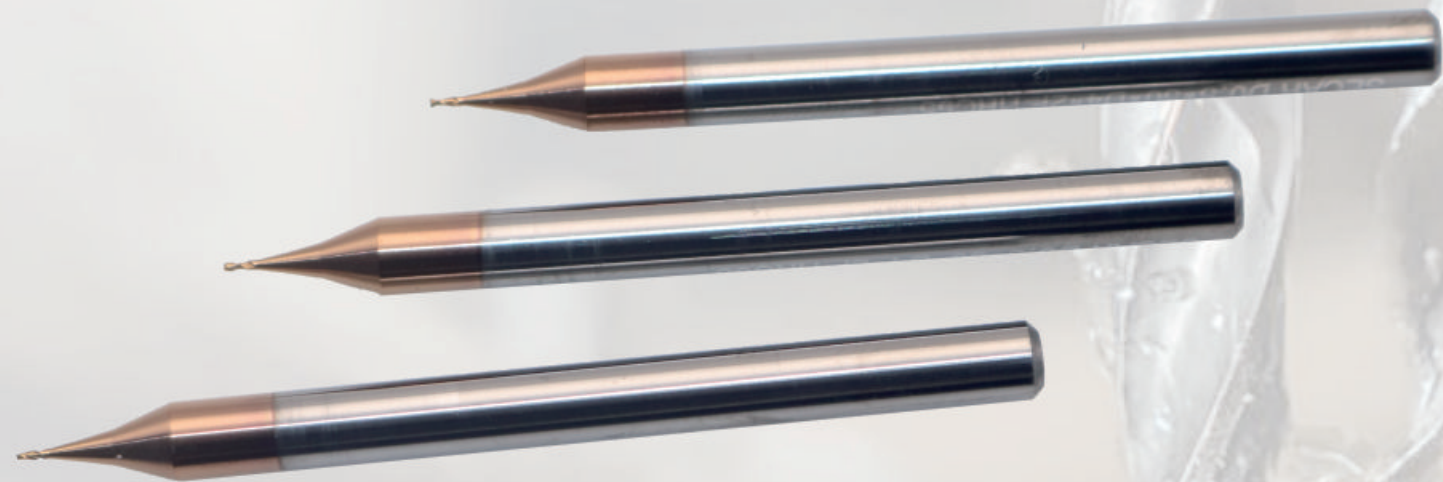


- ▶ 抑制毛刺  
Inhibition of burr
- 大前角和小棱边实现优秀的切削效果  
Large front angle and small edge achieve excellent cutting effect
- ▶ 抗振刀性强  
Strong vibration resistance
- 确保大芯厚，实现高振刀性能  
Ensure the thickness of large core, to achieve high vibration tool performance



## MM 微小径

# MM SUITABLE FOR MICRO DIAMETER POCKET MILLING

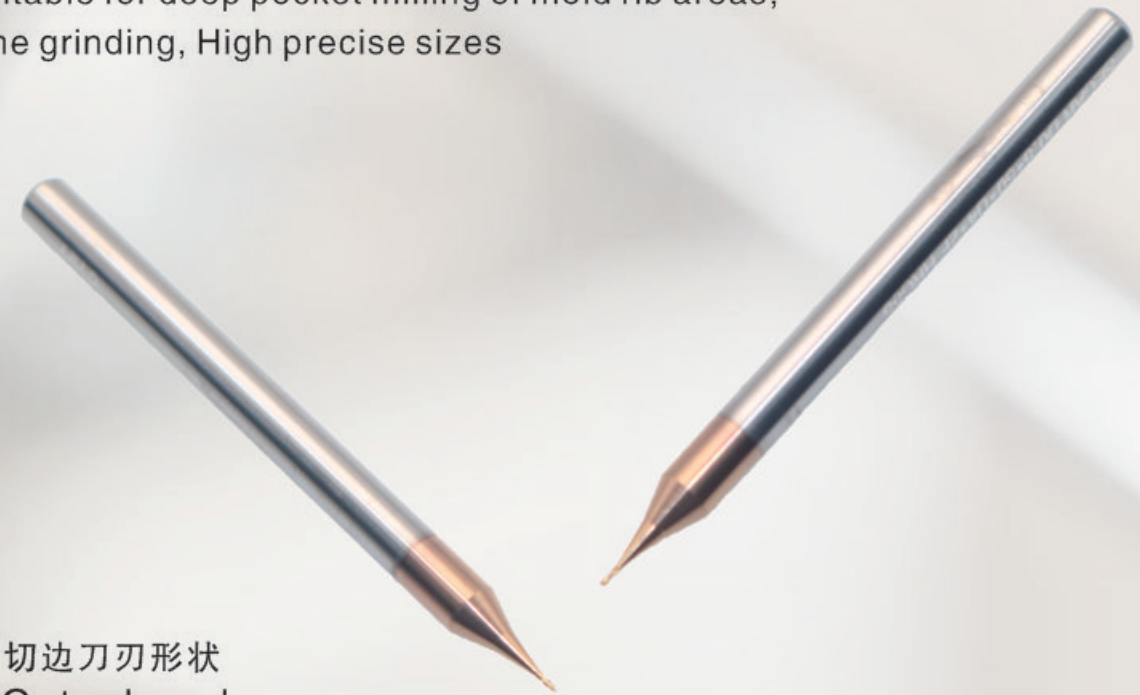


- 适用于各种钢件、铸铁的深沟槽加工
- 采用高性能TiSin涂层，耐高温，耐磨损
- 长颈避免深腔加工干涉，适用于模具肋槽的深腔加工
- Suitable for deep groove processing various steel and cast iron
- High-performance TiSin coating for high temperature and wear resistance
- Long neck design avoid collisions with workpiece  
Suitable for deep pocket milling of mold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



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

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



- ▶ 切边刀刃形状  
Cut edge shape
- 刃口精准钝化  
Accurate passivation of cutting edge, improve tool life
- 提高刀具使用寿命  
Can suppress the unevenness of the surface and ensure perfect finish
- ▶ 球头端齿  
The ball head end teeth
- 刀具刃型优化，精细研磨，尺寸精准  
Knife edge optimization, fine grinding, precise size
- 球点形状的切削刃提供优良的耐磨性和切削性能  
Cutting edges of the ball point shape provide excellent wear resistance and cutting performance



# TMR 系列

## 粗加工立铣刀

## Endmills for roughing application



- 适用于普通钢、铸铁材料的粗加工，特殊的刃口断屑槽处理，适用于工件的沟槽和侧壁粗加工。采用AlTiN涂层
- Suitable for roughing normal steel & cast iron, special chip breaker cutting edge for groove and side machining. AlTiN coating.



粗加工用立铣刀、较低的切削力  
适用于粗加工的经济有效的切削刃设计

End mill for roughing, Low cutting force apply to cost-effective cutting edge design for rough machining

- ▶ 软切割  
Soft cutting
- 锯齿状的切削刃  
Serrated cutting edges
- 3R组合  
3R combination
- ▶ 较低的切削力  
Lower cutting force
- 适用于中粗切削  
Ideal for medium to rough cutting
- 特殊的边缘设计  
Special edge design
- ▶ 高质量的结果  
High quality results

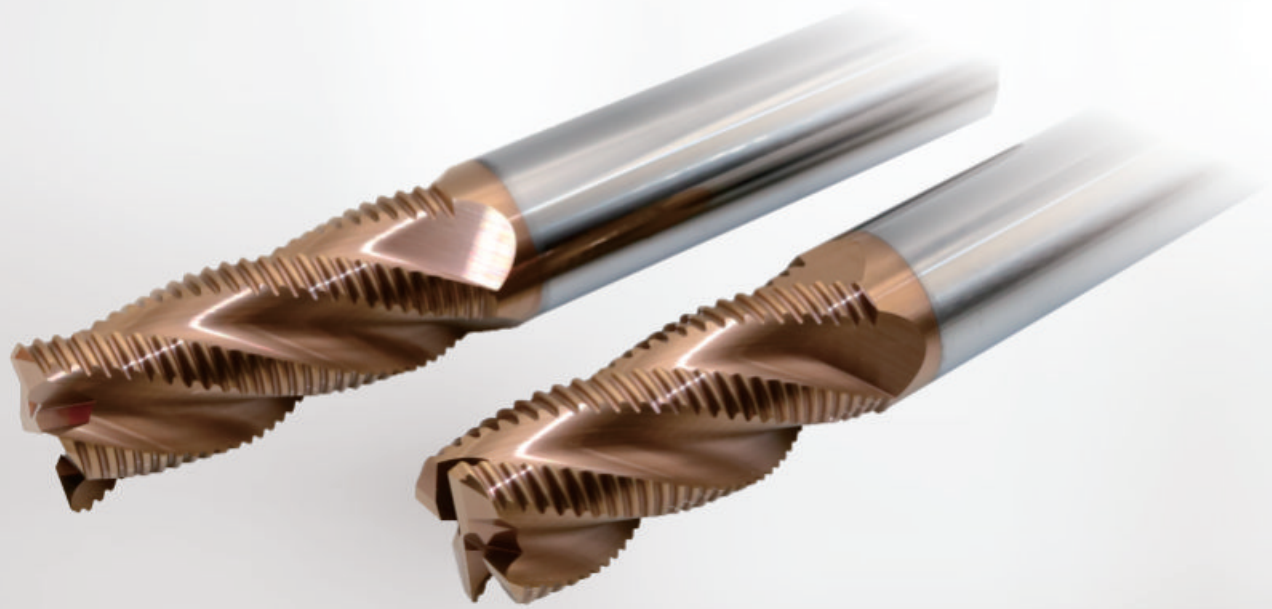




# EMR 系列

## 粗加工立铣刀

### Endmills for roughing application



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



多刃规格实现高效率、稳定加工，可对应钢、铸铁的粗加工  
 Multi-blade specifications to achieve high efficiency, stable processing, can be corresponding to steel, cast iron rough processing.



- ▶ 多刃规格实现高效率加工  
Multi-blade specification to achieve high efficiency processing
- 多刃规格。独特的刃口形状提高排屑性能  
Multi-blade specification. Unique blade shape improves chip removal performance.
- ▶ 耐崩损  
Resistance to collapse
- 特殊R角波形切刃，应力集中、抑制崩损。实现稳定加工  
Special R-angle wave cutting edge, stress concentration, suppression of chipping and achieve stable processing.
- ▶ 实现长寿命、稳定加工  
Achieve long life, stable processing
- 采用耐磨性、抗氧化性优异的(TiSiN) PVD涂层  
(TiSiN) PVD coating with excellent wear resistance and oxidation resistance