

CARBIDE TOOLS

2015 - 2016

Carbide Micro End Mills

微小径铣刀

Cutters for Plastics, Aluminum, SUS

塑胶、铝、不锈钢产品加工类刀具

Cutters for Graphite, Electrode copper, Moulds

石墨、电极铜、模具加工类刀具

Drills, Reamers, Special tools, Profile cutters

钻头、铰刀、成型刀具





OSK
 HM R5 $\varnothing 10 \times 7.5 \times 10$
 12120805

OSK
 KM DB $\varnothing 8 \times 20 \times 8 \times 8$
 12120806

OSK
 PC D10 $\varnothing 10 \times 10 \times 10$
 12120807

OSK
 CUTTING TOOL SYSTEM



Balance - Wheel Balancing

Set the Marker

- Set Marker
- Enter RPM/C
- No Weight
- Calibrate
- With Weight

No Weight Amplitude:
 Amplitude (old val):
 Phase:
 Offset:
 Spindle RPM:
 C-Axis Position:
 Standard Weight:

Place the wheel into the holder so that the mark on the wheel-pack lock nut lines up with the mark on the spindle front lock nut.





OSK Precision Tools Co., Ltd., established in 2006, is specialized in the manufacturing and sales of tungsten carbide drills, reamers, end mills and other cutting tools. Products are mainly used in aerospace and aviation, automobile, machinery, electronics, mould processing, and other industries, especially advantageous in the high-speed processing of high-hardness and difficult-to-cut material.

Now, the Company has several CNC cutter grinding machines from Swiss ROLLOMATIC, German WALTER and Australian ANCA, as well as several testing equipment from German ZOLLER and Japanese Mitutoyo. All these machines and equipment are the guarantee for a stable product quality. Different types of machines are flexible for production, especially convenient for special profile cutters for product parts.

Recently, the new factory plant was completed and put into use, which improves the integrated use of the Company's software and hardware. The introduction of DMG machining-center and the establishment of cutter testing and cutting technology application center will continuously conduct cutting tests and improve the quality of cutters manufactured by the Company, as well as will provide customers with accurate data and premium cutting results.

In the future, the Company will focus on the research and development of new products, continuously introduce high-precision equipment, recruit senior technicians, gradually consummate an independent R & D center, and step up technical cooperation with world-class manufacturers. We are going to improve quality, develop "OSK" to be a world-class cutter supplier, and make contribution to the acceleration and localization process of metal processing industry in China.

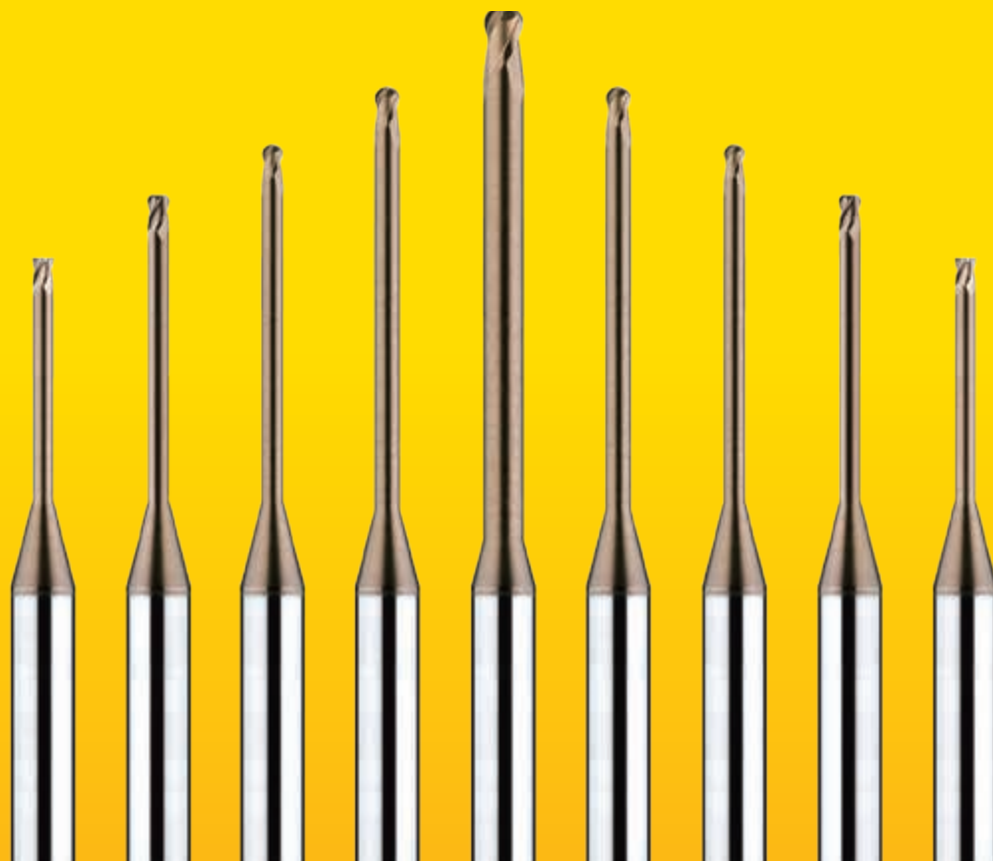
欧思克精密工具有限公司成立于 2006 年，专精于碳化钨钻头、铰刀、铣刀等切削刀具的生产与销售。产品主要应用于航空航天、汽车、机械、电子、模具加工等领域，特别针对高速高硬度和难切削材料的加工更具优势。

现在，公司拥有瑞士 ROLLOMATIC、德国 WALTER 和澳大利亚 ANCA 多台 CNC 刀具磨床，以及德国的 ZOLLER 和日本 Mitutoyo 的检测设备，为产品的稳定性提供了保证。机种众多，应变灵活，尤其是产品零件加工的成型刀具生产更加方便。

近期，新厂房全面投入使用，更加发挥了公司软硬件的配套作用。DMG 加工中心的引进以及刀具测试和切削技术应用中心的成立，可不断地对公司生产的刀具进行切削实验并改良提升，同时为客户提供准确的数据和最佳的切削效果。

未来，公司将侧重于新产品的开发和研究，不断地引进高精设备，吸纳高级技术人才，逐步完善独立的研发中心，加强与世界级大品牌的技术合作。提升品质，将“OSK”打造为世界一流的刀具品牌供应商，为加快金属加工行业的高速化和国产化进程做出卓越的贡献。





Carbide Micro-diameter End Mills 超硬小径铣刀

2 Flutes End Mills; 2 Flutes Ball End Mills

Size: $\varnothing 0.1$ - $\varnothing 3.0$; Radius: R0.05-R1.5

Applications: All kinds of moulds; All kinds of product; IT industry

Applicable Materials: Die steel; Carbon steel; Alloy steel; Tool steel; Electrode copper; Cast iron; Heat-treated steel

Product Features: 1) Multiple purposes, High precision, High speed
2) High hardness; Exceptional cutting performance

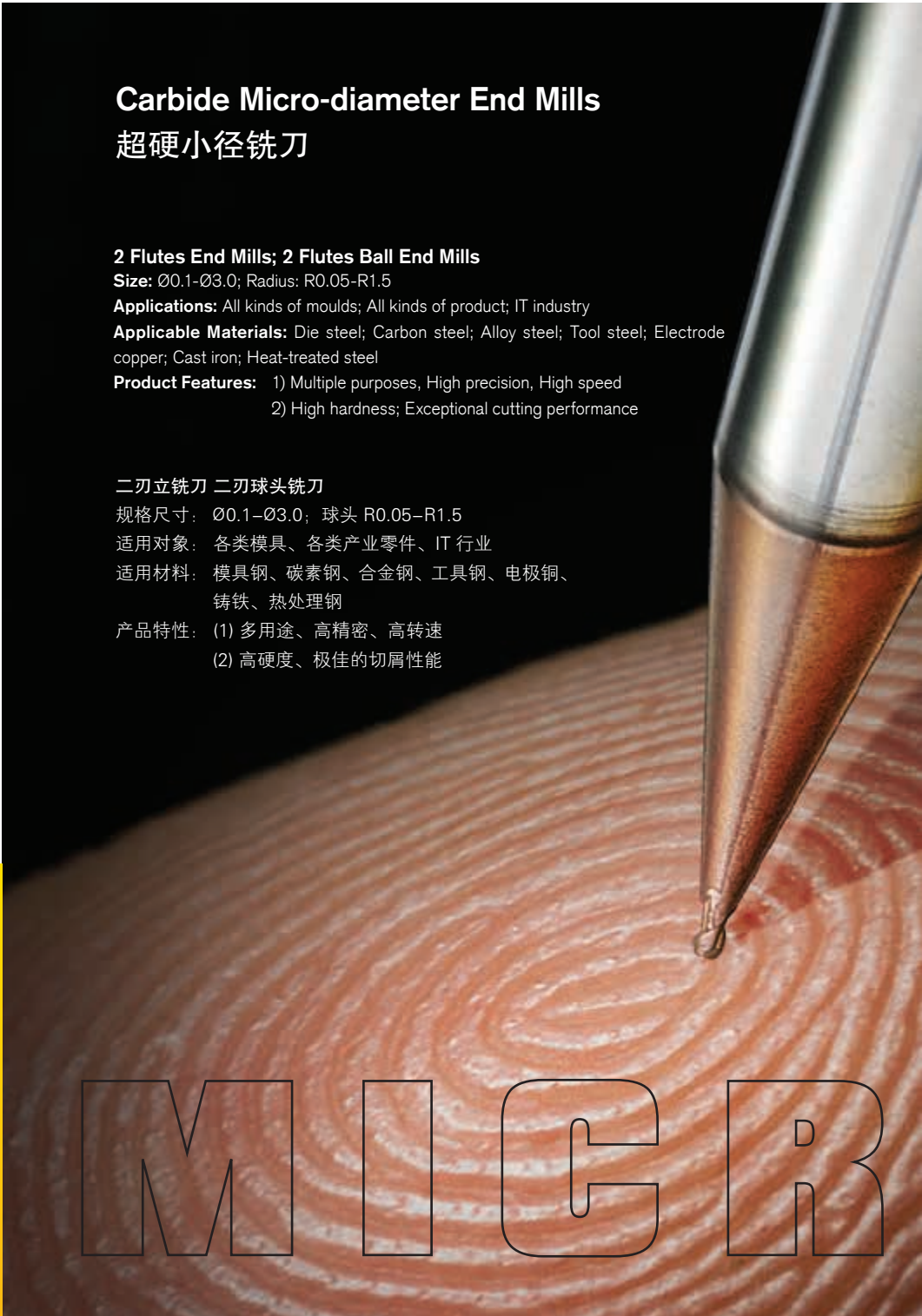
二刃立铣刀 二刃球头铣刀

规格尺寸: $\varnothing 0.1$ - $\varnothing 3.0$; 球头 R0.05-R1.5

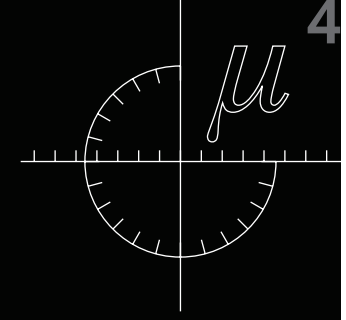
适用对象: 各类模具、各类产业零件、IT 行业

适用材料: 模具钢、碳素钢、合金钢、工具钢、电极铜、
铸铁、热处理钢

产品特性: (1) 多用途、高精度、高转速
(2) 高硬度、极佳的切屑性能



MIGER



2 Flutes Long-neck End Mills; 2 Flutes Long-neck Ball End Mills

Size: Ø0.1-Ø6.0; Radius: R0.05-R3.0;

Applications: All kinds of moulds and other parts of special dimensions

Applicable Materials: Die steel; carbon steel; alloy steel; tool steel; electrode copper; cast iron; heat-treated steel

Product Features:

- (1) Applicable to high-hardness material
- (2) New material, New coating, and Applicable to high-speed cutting
- (3) Long-neck design is Applicable to deep-flute process; exceptional cutting performance

**2 Flutes Long-neck Corner-radius End Mills;
4 Flutes Long-neck Corner-radius End Mills.**

Size: Ø0.5-Ø6.0; Corner-radius R0.05-R1.0

Applications: Precision moulds, Aerospace parts, Automobile parts, Other industrial parts

Applicable Materials: Die steel; Carbon steel; Alloy steel; Tool steel; Electrode copper; Cast iron; Heat-treated steel

Product Features:

- (1) Long-neck design is Applicable to deep-flute process; exceptional cutting performance
- (2) Applicable to high-speed processing and high-precision processing
- (3) Corner-R design may prevent cutters from breaking edges during high-speed cutting.



二刃深沟立铣刀 二刃深沟球头铣刀

规格尺寸: Ø0.1-Ø6.0 球头 R0.05-R3.0

适用对象: 各类模具及其他特殊尺寸之零件

适用材料: 模具钢、碳素钢、合金钢、工具钢、电极铜、铸铁、热处理钢

- 产品特性:**
- (1) 用于高硬度材料
 - (2) 新材料 新涂层 适合高速切削
 - (3) 长颈设计可进行深槽加工 极佳的切削性能

二刃深沟圆鼻铣刀 四刃深沟圆鼻铣刀

规格尺寸: Ø0.5-Ø6.0、圆鼻 R0.05-R1.0

适用对象: 精密模具、航太零件、汽机车零件、其他产业零件

适用材料: 模具钢、碳素钢、合金钢、工具钢、铸铁、热处理钢、焊补钢料

- 产品特性:**
- (1) 长颈设计可避免深腔加工的干涉
 - (2) 可进行高速加工、高精度加工
 - (3) R角设计可防止高速切削时崩刃





End Mills for Plastics

塑胶专用铣刀

Product Model: 1 Flute left hand helix square end mills, 1 Flute right hand helix square end mills;
2 Flutes left hand helix square end mills; 2 Flutes right hand helix square end mills; 2 Flutes ball end mills

Size: $\varnothing 0.2$ - $\varnothing 12.0$; Radius R0.1-R6.0

Applicable Materials: Resin, Acrylis, Non metal (e.g. Aluminum, Cooper)

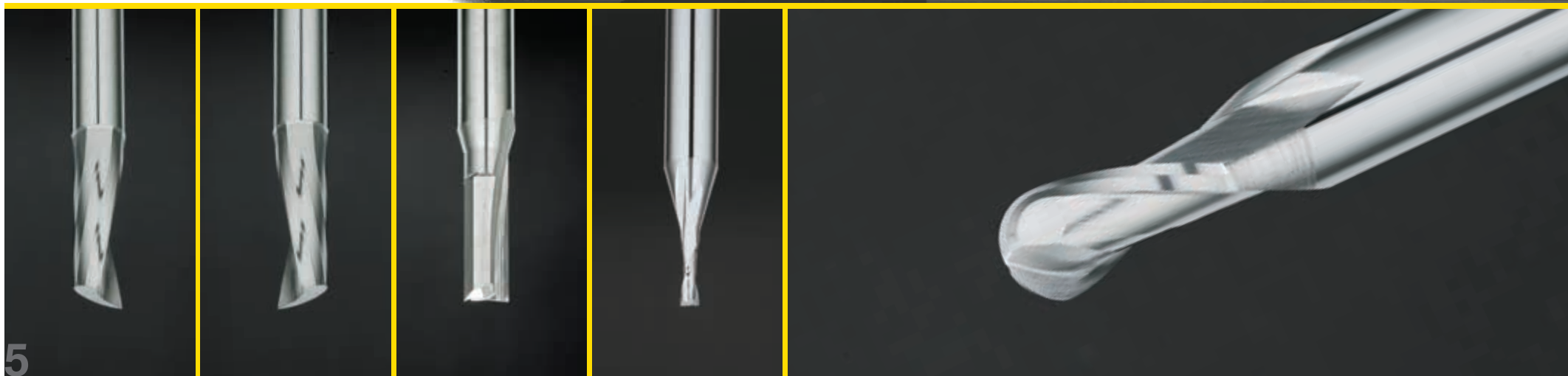
Product Features: Super-hard material; unique edge design is better for processing resins; excellent surface smoothness

产品型号：单刃左旋立铣刀、单刃右旋立铣刀、二刃左旋立铣刀、二刃右旋立铣刀、二刃球头铣刀

规格尺寸： $\varnothing 0.2$ - $\varnothing 12.0$ ；球头 R0.1-R6.0

适用材料：树脂 亚克力加工，也可用于非金属的加工，如铝，铜

产品特性：超硬度材料 独特的刃型设计更利于树脂类加工，表面光洁极佳



End Mills for Aluminum 铝专用铣刀

End Mills With Wave Edges for Aluminum

Product Model: 3 flutes end mills with wave edges; 4 flutes end mills with wave edges

Size: $\varnothing 3.0$ - $\varnothing 20.0$

Product Features: Adopts vertical edge with chip dividing flute, which reduces cutting force and can be used for semi-finishing of aluminum heavy cutting.



波刃铝专用铣刀

产品型号: 三刃波刃立铣刀、四刃波刃立铣刀

规格尺寸: $\varnothing 3.0$ - $\varnothing 20.0$

产品特性: 采用带纵向分屑槽刀刃,使切削力减小对铝材可进行重切削的半精加工



Applications: Aerospace parts; Automobile parts; Electronic and computer parts; Copper electrode; Bicycle parts; Casting moulds, etc.

Applicable Materials: Aluminum alloy; Magnesium alloy; Copper alloy

适用对象: 航太零件、汽机车零件、电子电脑零件、放电铜极、脚踏车零件、铸造模具等
适用材料: 铝合金、镁合金、铜合金

Special Cutter for General-purpose Aluminum

Product Model: 2 Flutes end mills; 3 Flutes end mills; 2 Flutes ball end mills

Size: $\varnothing 1.0$ - $\varnothing 20.0$; Radius: R0.5-R10.0

通用型铝专用铣刀

产品型号: 二刃立铣刀、三刃立铣刀、二刃球头铣刀

规格尺寸: $\varnothing 1.0$ - $\varnothing 20.0$ 球头 R0.5-R10.0

Roughing End Mills for Aluminum

Product Model: 3 Flutes roughing end mills; 3 Flutes roughing corner-radius end mills

Size: $\varnothing 3.0$ - $\varnothing 20.0$; Corner-radius: R0.5-R2.5.

Product Features:

- (1) DLC coating has the function of preventing melting and fire, which makes processing work last longer.
- (2) Coarse processing of aluminum material exerts higher efficiency

铝专用粗铣刀

产品型号: 三刃粗铣刀 三刃圆鼻粗铣刀

规格尺寸: $\varnothing 3.0$ - $\varnothing 20.0$; 圆鼻 R0.5-R2.5

产品特性: (1) DLC 涂层具有防止熔着作用,加工更持久。(2) 对铝材粗加工发挥更高效率

End Mills for SUS 不锈钢专用铣刀

**3 Flutes End Mills, 4 Flutes End Mills; 3 Flutes
Corner-radius End Mills, 4 Flutes Corner-radius
End Mills;**

Size: $\varnothing 1.0\text{--}\varnothing 20.0$ Corner-radius: R0.05-R2.5

Product Features:

- (1) Ultra-fine granular heat-resistant material
- (2) Edge design is both sharp and of good rigidity
- (3) Corner-R design may prevent cutters from breaking during high-speed cutting.

三刃铣刀、四刃铣刀；三刃圆鼻铣刀、四刃圆鼻铣刀

规格尺寸： $\varnothing 1.0\text{--}\varnothing 20.0$ 圆鼻：R0.05-R2.5

产品特性： (1) 超微颗粒耐热材质

- (2) 刃部设计既锋利又有较好的强钢性
- (3) R角设计可防止高速切削时的崩刃

Heavy Duty Operation Type End Mills

Size : 3 Flutes, 4 Flutes, $\varnothing 3.0\text{--}\varnothing 20.0$

Product Features:

- (1) High-speed cutting of high-hardness steel
- (2) Greatly improved service life
- (3) Excellent chip removal
- (4) High-precision finish machining

强力铣刀

规格尺寸： 三刃、四刃 $\varnothing 3.0\text{--}\varnothing 20.0$

产品特性： (1) 高硬度钢的高速切削

- (2) 使用寿命大幅度提高
- (3) 优越的排屑性
- (4) 高精度精加工

Applications: Aerospace parts, Automobile parts, Clock and watch parts, Golf driver head
Applicable Materials: All kinds of stainless-steel machined parts; High-hardness alloy steel

适用对象：航太零件 汽机车零件 钟表零件 高尔夫球头 各类产业零件

适用材料：各类不锈钢加工件、高硬度合金钢





3 Flutes Roughing End Mills; 4 Flutes End Mills with Nicks

Size : 3 Flutes, 4 Flutes, $\varnothing 6.0$ - $\varnothing 20.0$

Product Features:

- (1) Ultra-fine granular heat-resistant material
- (2) Edge design is both sharp and of good rigidity
- (3) Fast chip removal during processing, which reduces the abrasion of cutter edges

三刃粗铣刀 四刃锯齿铣刀

规格尺寸: 三刃、四刃 $\varnothing 6.0$ - $\varnothing 20.0$

- 产品特性:
- (1) 超微颗粒耐热材质
 - (2) 刃部设计既锋利又有较好的强钢性
 - (3) 加工时排屑快速 降低刀个刃口磨耗

NEW

End Mills for Graphite

石墨用铣刀

Product Model: 2 Flutes end mills; 4 Flutes end mills; 6 Flutes end mills; 2 Flutes ball end mills

Size: $\varnothing 0.5$ - $\varnothing 16.0$; Radius: R0.25-R8.0

Applicable Materials: Graphite, Ceramics, Fiber, Aluminum, etc.

Product Features:

- (1) High surface hardness and excellent abrasion-resistant performance, which extends the service life of cutters by more than 10 times.
- (2) Make the machined surface smoother and of exceptional precision.
- (3) Applicable to high-speed light cutting, but not suitable for processing steel or heavy cutting.

产品型号: 二刃立铣刀 四刃立铣刀 六刃立铣刀 二刃球头铣刀

规格尺寸: $\varnothing 0.5$ - $\varnothing 16.0$ 球头 R0.25-R8.0

适用对象: 模具 汽车零件 电子电脑零件 各类产业零件

适用材料: 石墨 陶瓷 纤维 铝等

- 产品特性:
- (1) 高表面硬度 优异的抗磨耗性能 提高刀具使用寿命 10 倍以上。
 - (2) 使加工面更光滑及精度超群。
 - (3) 可高速轻切削加工, 不适于钢及重切削加工。



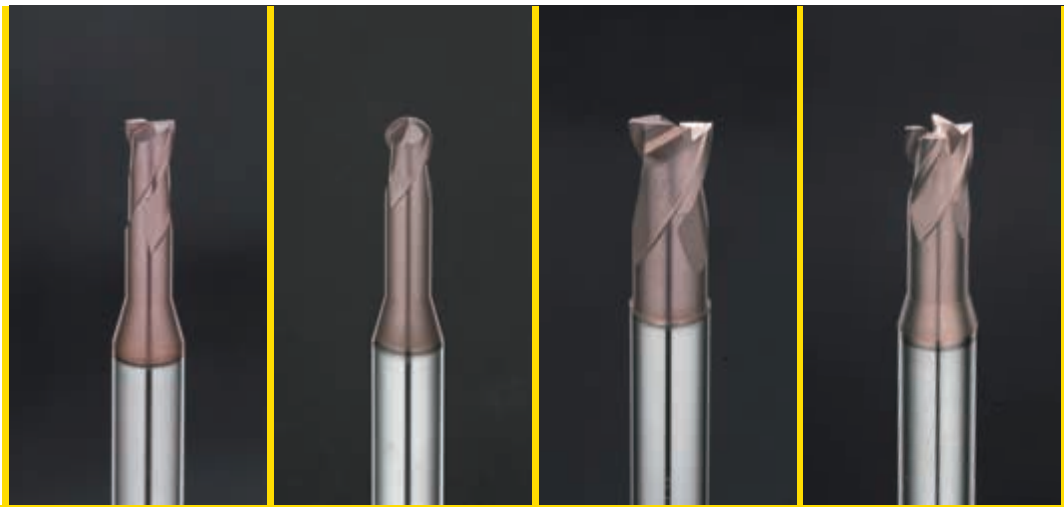
End Mills for Moulds 模具类铣刀

Applications: Plastic moulds; Forging moulds; Casting moulds. Metal plating moulds, Aerospace parts, Automobile parts, Precision moulds, and Other industrial parts

Applicable Materials: Die steel; Carbon steel; Alloy steel; Tool steel; Electrode copper; Cast iron; Heat-treated steel

Product Features:

- (1) New material, new coating, and applicable to high-speed cutting and dry cutting
- (2) Extremely high cutting efficiency and exceptional cutting performance



KPM

2 Flutes, 4 Flutes, 6 Flutes End Mills

2 Flutes Ball End Mills

Size: Ø1.0-Ø20.0

Product Features: Applicable to the cutting of high-hardness material (not greater than HRC 60°)

KPM

二刃立铣刀 四刃立铣刀 六刃立铣刀 二刃球头铣刀

规格尺寸: Ø1.0-Ø20.0

产品特性: 可用于 HRC60° 以下, 高硬度材料切削.

适用对象: 塑胶模 锻造模 压铸模 钣金模 航太零件 汽机车零件 各类产业零件

适用材料: 碳素钢 模具钢 工具钢 合金钢 不锈钢 铸铁 热处理钢

产品特性: (1) 新材料 新涂层适合高速切削, 干式切削.

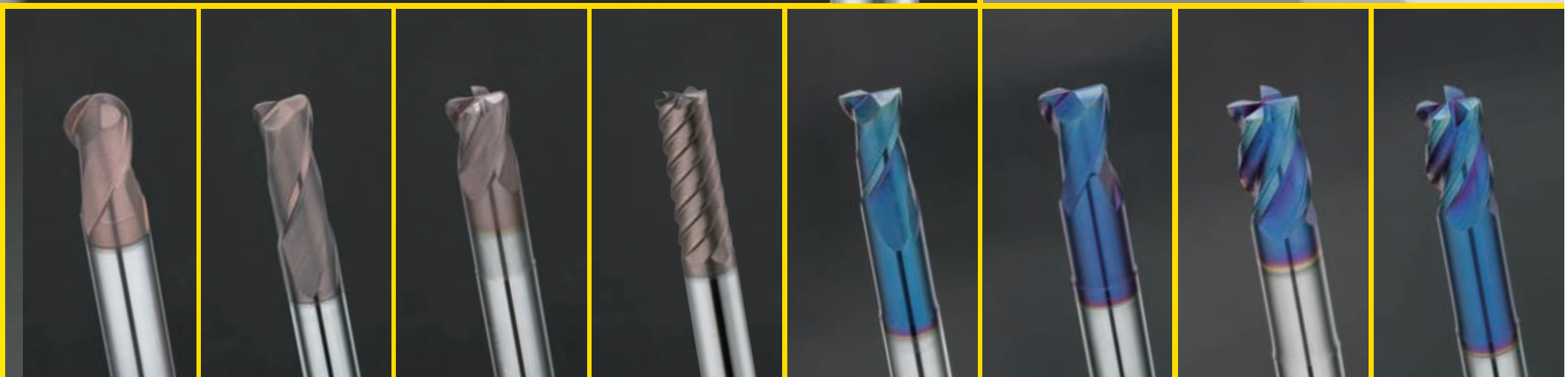
(2) 极高的切削效率, 极佳的切削性能.

NEW



KHM
2 Flutes, 4 Flutes, 6 Flutes End Mills
2 Flutes Ball End Mills
Size: Ø1.0-Ø20.0
Product Features: Applicable to the cutting of high-hardness material (not greater than HRC 70°)

KHM
 二刃立铣刀 四刃立铣刀 六刃立铣刀 二刃球头铣刀
 规格尺寸: Ø1.0-Ø20.0
 产品特性: 可用于 HRC70° 以下, 高硬度材料切削



Carbide Drills 钨钢钻头

Applications: Aerospace parts; Marine parts, Automobile parts; Precision moulds; Other Industrial parts.

Applicable Materials: General steel, Cast irons cold rolled steel, Non-ferrous heavy metal, Non-ferrous metal austenitic stainless steel, etc.

Product Features: High-hardness material, High efficiency High performance.

适用对象：航太零件、汽机车零件、船舶零件、
各类产业零件

适用材料：一般钢材、铸铁、冷轧钢、非铁重金
属、非铁金属奥氏体不锈钢和难加
工材料

产品特性：高硬度材料，高效率，高性能

Straight shank drill

Size: $\varnothing 1.0\text{--}\varnothing 13.0$

直柄钻

规格尺寸： $\varnothing 1.0\text{--}\varnothing 13.0$

Drill with End mill-shank

Size: $\varnothing 2.0\text{--}\varnothing 25.0$

铣刀柄钻

规格尺寸： $\varnothing 2.0\text{--}\varnothing 25.0$

Drill with Internal Coolant Supply

Size: $\varnothing 4.0\text{--}\varnothing 25.0$

油路钻

规格尺寸： $\varnothing 4.0\text{--}\varnothing 25.0$

Step Drill

Size: $\varnothing 2.0\text{--}\varnothing 12.0$

阶梯钻

规格尺寸： $\varnothing 2.0\text{--}\varnothing 12.0$

Burnishing Drill

Size: $\varnothing 4.0\text{--}\varnothing 25.0$

直槽钻

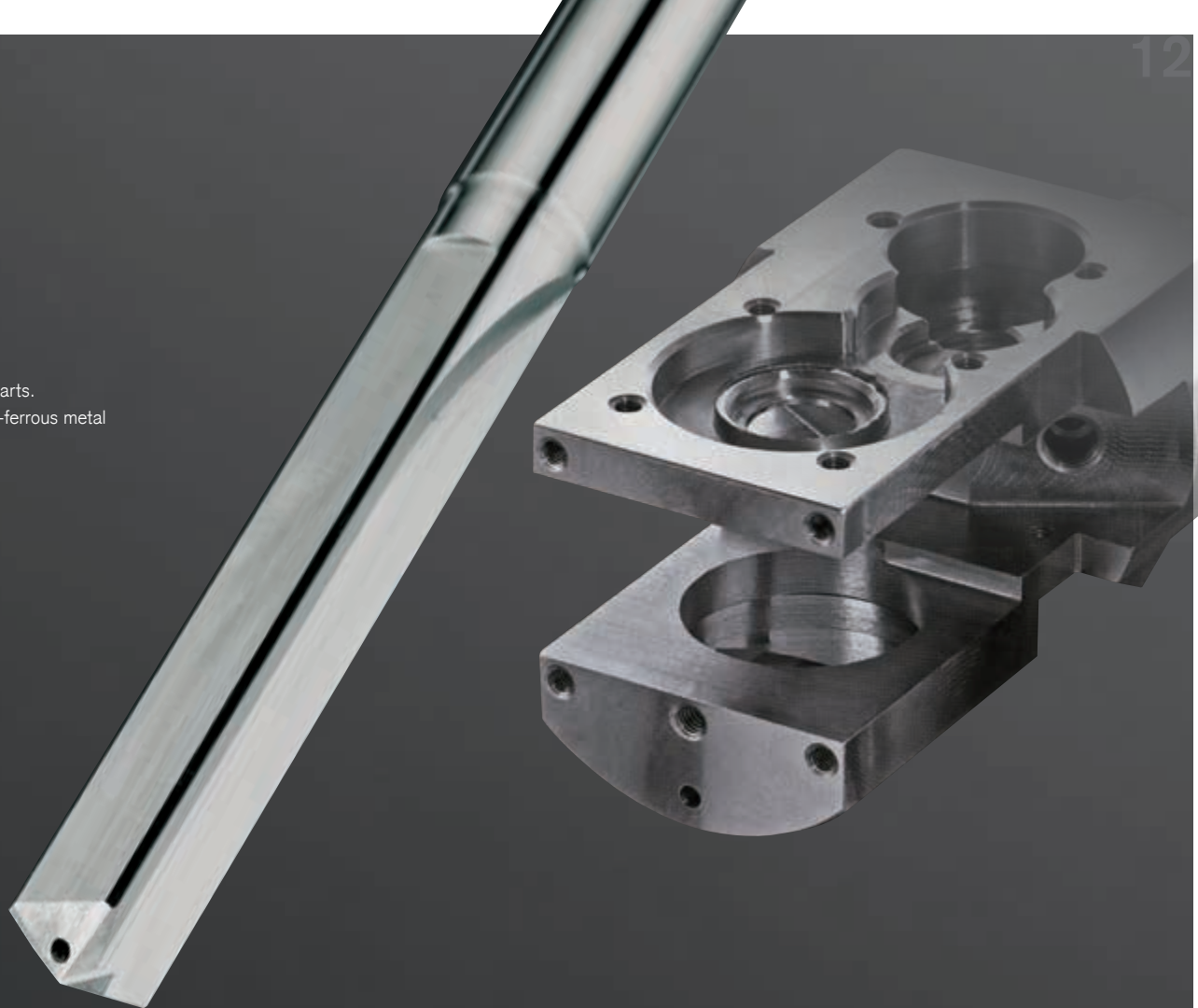
规格尺寸： $\varnothing 4.0\text{--}\varnothing 25.0$



Carbide Reamers 钨钢铰刀

Applications: Aerospace parts; Automobile parts; Precision moulds; Other industrial parts.
Applicable Materials: General steel, Cold rolled steel, Non-ferrous heavy metal, Non-ferrous metal austenitic stainless steel, etc.
Product Features:
 (1) Uses ultrafine hard alloy
 (2) Applicable to fine drilling of a wide range of materials (from cast iron to steel)

适用对象： 航太零件、汽机车零件、船舶零件、各类产业零件
 适用材料： 一般钢材、铸铁、冷轧钢、非铁重金属、非铁金属奥氏体不锈钢和难加工材料
 产品特性： (1) 使用超微粒硬度合金。
 (2) 可做铸铁到钢材广范围之孔精细加工



Straight Reamer
 Size: $\varnothing 1.00$ - $\varnothing 25.00$

直刃铰刀
 规格尺寸: $\varnothing 1.00$ - $\varnothing 25.00$

Reamer with Internal Coolant Supply
 Size: $\varnothing 4.00$ - $\varnothing 25.00$

直刃油路铰刀
 规格尺寸: $\varnothing 4.00$ - $\varnothing 25.00$

Helical Reamer
 Size: $\varnothing 1.01$ - $\varnothing 12.00$

螺旋铰刀
 规格尺寸: $\varnothing 1.01$ - $\varnothing 12.00$

High-helical Reamer
 Size: $\varnothing 3.0$ - $\varnothing 20.0$

高螺旋铰刀
 规格尺寸: $\varnothing 3.0$ - $\varnothing 20.0$

Step Reamer
 Size: $\varnothing 6.00$ - $\varnothing 16.00$

阶梯铰刀
 规格尺寸: $\varnothing 6.00$ - $\varnothing 16.00$



Special tools, Profile cutters, Made upon request

The Company, equipped with a five-axis linkage CNC grinding machine, a multi-functional software system, reasonable technique and latest tool manufacturing standards, is able to satisfy customer needs for standard cutters as well as special requirements on special profile cutters. Our products are widely used in automobile, aerospace and aviation, mould processing and other industries. We sincerely welcome your orders for special tools and your technical guidance!

非标成型刀具

公司采用先进的五轴联动 CNC 磨床，配备多功能软件系统，合理的工艺和最新的工具制造标准，既能满足不同客户对于标准刀具的需求，也能完成客户对非标成型刀具的特殊要求，已广泛用于汽车 航空航天 模具加工等领域，欢迎您的非标定制和技术指导！





www.osktool.com