



通用型钨钢铣刀系列

EMT Endmill for General Purpose



Universal End mills, Roughing & Finishing

www.unt-tools.com

广东优能特五金科技有限公司

Guangdong UNT Cutting Tools Co., Ltd.

INTRODUCTION

公司简介

广东优能特五金科技有限公司

优能特是一家CNC铣削刀具的大型制造商。

优能特在中国东莞拥有一个9,000平方米的工业园区，进口了35台澳大利亚ANCA数控磨床，5台Walter数控磨床、55个工程师和35个销售员。

我们建立了ISO9001质量控制体系，使用优质稳定的德国硬质合金棒，SWISS SOERLIKON新涂层技术以提高抗氧化性和热硬度。我们进口德国ZOLLER数字测量仪器等精密测试设备，以确保稳定的尺寸精度和优良的表面质量。

我们已经成为知名品牌工具的OEM合作伙伴15年，我们的仓库1500 SQM拥有数百万库存，可在24小时内发货给立铣刀。

优能特切削刀具已分布在欧洲，亚洲，北美和许多其他城市，热销产品包括高性能硬质合金立铣刀EMC /X5070系列，HRC55硬质合金立铣刀，EMF金刚石涂层刀具，螺纹和丝锥，冷却液钻头，超微型立铣刀，用于不锈钢的EMD等，以及各种定制尺寸的CNC铣削工具。

我们拥有提供全方位服务的设计和工程人员，以及Markets销售人员，可以根据您的特定规格构建自定义工具的多层次结构。

我们的目标是帮助每个客户获得最大的利益，建立世界一流的优质切削刀具品牌。

选择好的工具，选择“优能特”精密工具！

Guangdong UNT Cutting Tools Co., Ltd.

UNT' is a big manufacturer of CNC Milling tools.

UNT' owned an industrial park 9,000 SQM in Dongguan China, imported Australian ANCA CNC grinding machines 35 sets, Walter CNC Cutter Grinders 5 sets, and 55 engineer design teams and 30 salesmen.

We established an ISO9001 quality control system, use high-quality and stable German Carbide Rods, SWISS OERLIKON new coating technologies, to improve the oxidation resistance and hot hardness. We import Germany ZOLLER Digital Measuring Instruments, such as precision testing equipment, to ensure stable dimensional accuracy and fine surface quality.

We have been an OEM Partner for Well-known brand tools for 15 years, Our warehouse 1500 SQM with millions of in-stock, ready to shipping end mills in 24 hours.

UNT Cutting tools have been distributed in Europe, Asia, North America, and many other cities, Hot sales products include High-performance Carbide end mills EMC/X5070 series, HRC55 Carbide end mills, EMF Diamond Coated Tools, Thread & tap, Coolant drills, Super-micro end mills, EMD for Stainless steels, etc, and all kinds of custom-sized CNC Milling tools.















We have a full-service design and engineering staff, and Markets sales to build a multilevel of variations of custom tools to your specific specifications.

Our aim is to help every customer achieve maximum benefits, to build a world-class quality cutting tool brand.

Choose the good Tools, Choose "UNT" Precision Tools.



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通用型钨钢铣刀系列

CARBIDE FOR UIVERSAI MILLING CUTTER SERIES

Standard size

标准铣刀

- 2/4 Flute Square · 2/4刀平角刀
- 2/4 Flute Ball End · 2/4刀球头刀
- 2/4 Flute Corner Radius · 2/4刀圆角刀
- 3/4/5 Flute Roughing · 3/4/5刀粗皮刀

Long Reach Milling

深沟刀

- Hard Milling · 硬精铣深沟刀
- Imperial · 英制长颈刀
- Metric · 公制深沟刀
- Variable Helix · 不等分螺旋刀

Tapered End Mills

锥度刀

- Standard · 标准刀
- Long Reach · 加长深沟锥度刀
- Runner Cutter · 通道加工刀

Micro End mills

超微型刀

➢ 0.01mm~0.1mm (范围)

Specialty Profies & Custom Tools & ODM

非标定形刀& 客户定制刀&代加工

- Backing Deburring Mill · 倒角刀
- Chamfer Cutter · 定型刀
- Concave Radius End Mills · 半圆弧定形刀
- Corner Rounding End Mills · 圆角定形刀
- Double Angle Shank Cutter · 双角定形刀
- Dovetail Cutter · 燕尾刀
- Drill Mills · 钻铣刀
- Engraving Cutters · 雕刻刀
- T Slot & Keyseat Cutter · T形键位刀
- Undercutting End Mills · 底切铣刀

图标说明 — ILLUSTRATED GUIDE

材质 — MATERIALS



极细超微粒硬质合金
ULTRA MICRO GRAIN CARBIDE

螺旋角度 — HELIX ANGLE



刀数 — NUMBER OF FLUTES



涂层 — COATING



机械加工方式 — MACHINING DIRECTOR



侧铣、轮廓铣、插削铣
SIDE, PROFILE, SLOT

柄部类型 — SHANK TYPE



直柄
SHANK HA



键槽柄部
SHANK HB

刀具可加工硬度 — WORK MATERIAL HARDNESS



切削条件 — CUTTING CONDITION



切削条件 — CUTTING CONDITION



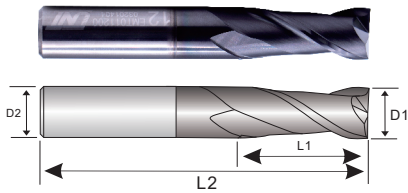
圆弧半径公差 — CUTTING RADIUS TOLERANCE



EMT 通用型钨钢二刃平底铣刀 **Carbide, Square 2 Flute End Mill, Universal style**

- ★ 设计适用于低硬度材料 (HRC45以下), 合金钢, 铬镍铁合金, 工具钢, 碳素钢, 预硬化钢, 不锈钢, 钛合金等材料的加工。
- ★ 具有出色的工件光洁度。
- ★ 适合中心加工和插削加工

- Designed to low hardness materials (under HRC45), alloy steel, inconel, tools steel, carbon steel, prehardened steel, stainless steels, titanium alloy etc.
- Excellent work piece finishes.
- Center & Slotting Cutting



| 加工材料 Material Description | | | | | | | | | | | |
|---------------------------|--------------|--------------------|-----------------|----------------------|----------|----------|-----------|----------|------------------|----------|---------|
| 碳钢 | 合金钢 | 预硬钢 | 硬化钢 | 高硬钢 | 铜 | 石墨 | 铸铁 | 铝 | 不锈钢 | 钛 | 镍钛合金 |
| Carbon Steels | Alloy Steels | Prehardened Steels | Hardened Steels | High Hardened steels | Copper | Graphite | Cast Iron | Aluminum | Stainless Steels | Titanium | Inconel |
| -HB225 | -HB225-325 | -HRC30-40 | HRC40-45 | HRC45-55 | HRc55-70 | | | | | | |
| ○ | ○ | ○ | ○ | ○ | | | ○ | | ○ | ○ | |

◎ 非常合适 ○ 适合

EMT01 SERIES

Unit:mm

| 优能特 订货代码 | 刃径 | 柄径 | 刃长 | 全长 | 刃数 |
|-------------|-------------|--------------|-----------------|-------------|--------|
| UNT EDP NO. | Mill Dia D1 | Shank Dia D2 | Flute length L1 | O. A. L. L2 | Flutes |
| EMT010024 | 0.2 | 4 | 0.4 | 50 | 2 |
| EMT010034 | 0.3 | 4 | 0.6 | 50 | 2 |
| EMT010044 | 0.4 | 4 | 0.8 | 50 | 2 |
| EMT010054 | 0.5 | 4 | 1.0 | 50 | 2 |
| EMT010064 | 0.6 | 4 | 1.2 | 50 | 2 |
| EMT010074 | 0.7 | 4 | 1.4 | 50 | 2 |
| EMT010084 | 0.8 | 4 | 1.6 | 50 | 2 |
| EMT010094 | 0.9 | 4 | 1.8 | 50 | 2 |
| EMT010104 | 1.0 | 4 | 3 | 50 | 2 |
| EMT010124 | 1.2 | 4 | 4 | 50 | 2 |
| EMT010154 | 1.5 | 4 | 4 | 50 | 2 |
| EMT010184 | 1.8 | 4 | 6 | 50 | 2 |
| EMT010204 | 2.0 | 4 | 6 | 50 | 2 |
| EMT010254 | 2.5 | 4 | 6 | 50 | 2 |
| EMT010284 | 2.8 | 4 | 8 | 50 | 2 |
| EMT010304 | 3.0 | 4 | 8 | 50 | 2 |
| EMT010354 | 3.5 | 4 | 10 | 50 | 2 |
| EMT010404 | 4.0 | 4 | 11 | 50 | 2 |
| EMT010106 | 1.0 | 6 | 3 | 50 | 2 |
| EMT010156 | 1.5 | 6 | 4 | 50 | 2 |
| EMT010206 | 2.0 | 6 | 6 | 50 | 2 |
| EMT010256 | 2.5 | 6 | 6 | 50 | 2 |
| EMT010306 | 3.0 | 6 | 8 | 50 | 2 |
| EMT010356 | 3.5 | 6 | 10 | 50 | 2 |
| EMT010406 | 4.0 | 6 | 11 | 50 | 2 |
| EMT010450 | 4.5 | 6 | 13 | 50 | 2 |
| EMT010500 | 5.0 | 6 | 13 | 50 | 2 |
| EMT010550 | 5.5 | 6 | 16 | 50 | 2 |
| EMT010600 | 6.0 | 6 | 16 | 50 | 2 |
| EMT010650 | 6.5 | 8 | 20 | 60 | 2 |
| EMT010700 | 7.0 | 8 | 20 | 60 | 2 |
| EMT010750 | 7.5 | 8 | 20 | 60 | 2 |
| EMT010800 | 8.0 | 8 | 20 | 60 | 2 |
| EMT010850 | 8.5 | 10 | 25 | 75 | 2 |
| EMT010900 | 9.0 | 10 | 25 | 75 | 2 |
| EMT010950 | 9.5 | 10 | 25 | 75 | 2 |
| EMT011000 | 10.0 | 10 | 25 | 75 | 2 |
| EMT011050 | 10.5 | 12 | 30 | 75 | 2 |
| EMT011100 | 11.0 | 12 | 30 | 75 | 2 |
| EMT011200 | 12.0 | 12 | 30 | 75 | 2 |
| EMT011600 | 16.0 | 16 | 40 | 100 | 2 |
| EMT011800 | 18.0 | 18 | 40 | 100 | 2 |
| EMT012000 | 20.0 | 20 | 40 | 100 | 2 |

以上产品未列明细的非标规格尺寸或产品参数, 可根据客户需求订制作。
Non-standard size or product parameters not listed above, can be customized according to customer needs.

| MILL DIA. TOLERANCE (mm) 刃径公差 (mm) | | SHANK DIA. TOLERANCE 柄径公差 |
|---------------------------------------|-------------|------------------------------|
| DIAMETER直径 | TOLERANCE公差 | |
| ~26以下 | -0.015~0 | H6 |
| ≥26 | -0.020~0 | |

EMT 通用型钨钢二刃加长平底铣刀

Carbide, Square 2 Flute End Mill, Long Length

- ★ 设计适用于低硬度材料 (HRC45以下), 合金钢, 铬镍铁合金, 工具钢, 碳素钢, 预硬化钢, 不锈钢, 钛合金等材料的加工。
- ★ 具有出色的工件光洁度。
- ★ 适合中心加工和插削加工

- Designed to low hardness materials (under HRC45), alloy steel, inconel, tools steel, carbon steel, prehardened steel, stainless steels, titanium alloy etc.
- Excellent work piece finishes.
- Center & Slotting Cutting



| 加工材料 Material Description | | | | | | | | | | | |
|---------------------------|--------------|--------------------|-----------------|----------------------|--------|----------|-----------|----------|------------------|----------|---------|
| 碳钢 | 合金钢 | 预硬钢 | 硬化钢 | 高硬钢 | 铜 | 石墨 | 铸铁 | 铝 | 不锈钢 | 钛 | 镍钛合金 |
| Carbon Steels | Alloy Steels | Prehardened Steels | Hardened Steels | High Hardened steels | Copper | Graphite | Cast Iron | Aluminum | Stainless Steels | Titanium | Inconel |
| ~HB225 | ~HB225-325 | ~HRc30-40 | HRc40-45 | HRc45-55 | | | | | | | |
| ○ | ○ | ○ | ○ | ○ | | | ○ | | ○ | ○ | |

○ 非常合适 ○ 适合

EMT02 SERIES

Unit:mm

| 优能特 订货代码 | 刃径 | 柄径 | 刃长 | 全长 | 刃数 |
|--------------|----------------|-----------------|--------------------|----------------|--------|
| UNT EDP NO. | Mill Dia D1 | Shank Dia D2 | Flute length L1 | O. A. L. L2 | Flutes |
| EMT02010075 | 1.0 | 4 | 5 | 75 | 2 |
| EMT02015075 | 1.5 | 4 | 6 | 75 | 2 |
| EMT02020075 | 2.0 | 4 | 8 | 75 | 2 |
| EMT02025075 | 2.5 | 4 | 8 | 75 | 2 |
| EMT02030075 | 3.0 | 4 | 10 | 75 | 2 |
| EMT02040075 | 4.0 | 4 | 12 | 75 | 2 |
| EMT02040100 | 4.0 | 4 | 12 | 100 | 2 |
| EMT020100756 | 1.0 | 6 | 5 | 75 | 2 |
| EMT020150756 | 1.5 | 6 | 6 | 75 | 2 |
| EMT020200756 | 2.0 | 6 | 8 | 75 | 2 |
| EMT020250756 | 2.5 | 6 | 8 | 75 | 2 |
| EMT020300756 | 3.0 | 6 | 10 | 75 | 2 |
| EMT020400756 | 4.0 | 6 | 12 | 75 | 2 |
| EMT02050075 | 5.0 | 6 | 16 | 75 | 2 |
| EMT02060075 | 6.0 | 6 | 25 | 75 | 2 |
| EMT02060100 | 6.0 | 6 | 30 | 100 | 2 |
| EMT02080100 | 8.0 | 8 | 35 | 100 | 2 |
| EMT02100100 | 10.0 | 10 | 40 | 100 | 2 |
| EMT02120100 | 12.0 | 12 | 45 | 100 | 2 |
| EMT02060150 | 6.0 | 6 | 35 | 150 | 2 |
| EMT02080150 | 8.0 | 8 | 35 | 150 | 2 |
| EMT02100150 | 10.0 | 10 | 40 | 150 | 2 |
| EMT02120150 | 12.0 | 12 | 45 | 150 | 2 |
| EMT02160150 | 16.0 | 16 | 60 | 150 | 2 |
| EMT02200150 | 20.0 | 20 | 70 | 150 | 2 |

以上产品未列明明的非标规格尺寸或产品参数, 可根据客户需求定制制作。

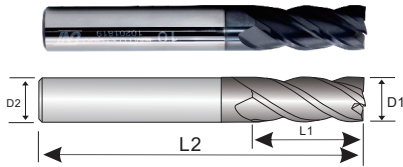
Non-standard size or product parameters not listed above, can be customized according to customer needs.

| MILL DIA. TOLERANCE (mm) 刃径公差 (mm) | | SHANK DIA. TOLERANCE 柄径公差 |
|--|----------------------|---------------------------------|
| DIAMETER直径 | TOLERANCE公差 | |
| ~∅6以下 ∅6超过 | -0.015~0 -0.020~0 | H6 |

EMT 通用型钨钢四刃平底铣刀 **Carbide, HRC 45 Router bits 4 Flute, Universal style**

- ★ 设计适用于低硬度材料 (HRC45以下), 合金钢, 铬镍铁合金, 工具钢, 碳素钢, 预硬化钢, 不锈钢, 钛合金等材料的加工。
- ★ 具有出色的工件光洁度。
- ★ 4刃铣刀, 刃部具有刚性, 广泛适用于浅槽加工, 异形铣削, 精加工。

- Designed to low hardness materials (under HRC45), alloy steel, inconel, tools steel, carbon steel, prehardened steel, stainless steels, titanium alloy etc.
- Excellent work piece finishes.
- 4 Flutes, high rigidity, widely used in shallow slot, profile milling, and finish machining.



| 加工材料 Material Description | | | | | | | | | | | |
|---------------------------|--------------|--------------------|-----------------|----------------------|----------|----------|-----------|----------|------------------|----------|---------|
| 碳钢 | 合金钢 | 预硬钢 | 硬化钢 | 高硬钢 | 铜 | 石墨 | 铸铁 | 铝 | 不锈钢 | 钛 | 铂镍铁合金 |
| Carbon Steels | Alloy Steels | Prehardened Steels | Hardened Steels | High Hardened steels | Copper | Graphite | Cast Iron | Aluminum | Stainless Steels | Titanium | Inconel |
| -HB225 | -HB225-325 | -HRC30-40 | HRC40-45 | HRC45-55 | HRC55-70 | | | | | | |
| ● | ● | ● | ● | ● | ● | | ○ | | ○ | ○ | |

EMT03 SERIES

Unit:mm

| 优能特 订货代码 | 刃径 | 柄径 | 刃长 | 全长 | 刃数 |
|-------------|-------------|--------------|-----------------|-------------|--------|
| UNT EDP NO. | Mill Dia D1 | Shank Dia D2 | Flute length L1 | O. A. L. L2 | Flutes |
| MET030103 | 1.0 | 3 | 3 | 50 | 4 |
| EMT030153 | 1.5 | 3 | 4 | 50 | 4 |
| EMT030203 | 2.0 | 3 | 6 | 50 | 4 |
| EMT030253 | 2.5 | 3 | 6 | 50 | 4 |
| EMT030303 | 3.0 | 3 | 8 | 50 | 4 |
| EMT030104 | 1.0 | 4 | 3 | 50 | 4 |
| EMT030114 | 1.1 | 4 | 4 | 50 | 4 |
| EMT030124 | 1.2 | 4 | 4 | 50 | 4 |
| EMT030134 | 1.3 | 4 | 4 | 50 | 4 |
| EMT030144 | 1.4 | 4 | 4 | 50 | 4 |
| EMT030154 | 1.5 | 4 | 6 | 50 | 4 |
| EMT030164 | 1.6 | 4 | 6 | 50 | 4 |
| EMT030174 | 1.7 | 4 | 6 | 50 | 4 |
| EMT030184 | 1.8 | 4 | 6 | 50 | 4 |
| EMT030194 | 1.9 | 4 | 6 | 50 | 4 |
| EMT030204 | 2.0 | 4 | 6 | 50 | 4 |
| EMT030254 | 2.5 | 4 | 6 | 50 | 4 |
| EMT030304 | 3.0 | 4 | 6 | 50 | 4 |
| EMT030354 | 3.5 | 4 | 6 | 50 | 4 |
| EMT030404 | 4.0 | 4 | 6 | 50 | 4 |
| EMT030106 | 1.0 | 6 | 6 | 50 | 4 |
| EMT030156 | 1.5 | 6 | 6 | 50 | 4 |
| EMT030206 | 2.0 | 6 | 6 | 50 | 4 |
| EMT030216 | 2.1 | 6 | 6 | 50 | 4 |
| EMT030226 | 2.2 | 6 | 6 | 50 | 4 |
| EMT030236 | 2.3 | 6 | 6 | 50 | 4 |
| EMT030246 | 2.4 | 6 | 6 | 50 | 4 |
| EMT030256 | 2.5 | 6 | 6 | 50 | 4 |
| EMT030266 | 2.6 | 6 | 8 | 50 | 4 |
| EMT030276 | 2.7 | 6 | 8 | 50 | 4 |
| EMT030286 | 2.8 | 6 | 8 | 50 | 4 |
| EMT030296 | 2.9 | 6 | 8 | 50 | 4 |
| EMT030306 | 3.0 | 6 | 8 | 50 | 4 |
| EMT030326 | 3.2 | 6 | 10 | 50 | 4 |
| EMT030356 | 3.5 | 6 | 10 | 50 | 4 |
| EMT030406 | 4.0 | 6 | 11 | 50 | 4 |
| EMT030456 | 4.5 | 6 | 13 | 50 | 4 |
| EMT030486 | 4.8 | 6 | 13 | 50 | 4 |
| EMT030506 | 5.0 | 6 | 13 | 50 | 4 |
| EMT030556 | 5.5 | 6 | 16 | 50 | 4 |
| EMT030606 | 6.0 | 6 | 20 | 50 | 4 |
| EMT030658 | 6.5 | 8 | 20 | 60 | 4 |
| EMT030708 | 7.0 | 8 | 20 | 60 | 4 |
| EMT030758 | 7.5 | 8 | 20 | 60 | 4 |
| EMT030808 | 8.0 | 8 | 20 | 60 | 4 |
| EMT030858 | 8.5 | 10 | 25 | 75 | 4 |
| EMT030908 | 9.0 | 10 | 25 | 75 | 4 |
| EMT030958 | 9.5 | 10 | 25 | 75 | 4 |
| EMT030108 | 10.0 | 10 | 25 | 75 | 4 |
| EMT030118 | 11.0 | 12 | 30 | 75 | 4 |
| EMT030128 | 12.0 | 12 | 30 | 75 | 4 |
| EMT030148 | 14.0 | 14 | 40 | 100 | 4 |
| EMT030168 | 16.0 | 16 | 40 | 100 | 4 |
| EMT030188 | 18.0 | 18 | 40 | 100 | 4 |
| EMT030208 | 20.0 | 20 | 40 | 100 | 4 |

● 非常适合 ○ 适合

以上产品未列明细的非标规格尺寸或产品参数, 可根据客户需求订制作。

Non-standard size or product parameters not listed above, can be customized according to customer needs.

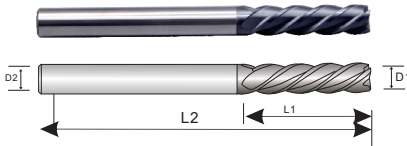
| | |
|--------------------------|----------------------|
| MILL DIA. TOLERANCE (mm) | SHANK DIA. TOLERANCE |
| 直径公差 (mm) | 柄径公差 |
| ~26以下 | -0.015-0 |
| ≥26以上 | -0.020-0 |
| | H6 |

EMT 通用型钨钢四刃加长平底铣刀

Carbide, HRC 45 Router bits 4 Flute, Long Length

- ★ 设计适用于低硬度材料 (HRC45以下), 合金钢, 铬镍铁合金, 工具钢, 碳素钢, 预硬化钢, 不锈钢, 钛合金等材料的加工。
- ★ 具有出色的工件光洁度。
- ★ 4刃铣刀, 刃部具有刚性, 广泛适用于浅槽加工, 异形铣削, 精加工。

- Designed to low hardness materials (under HRC45), alloy steel, inconel, tools steel, carbon steel, prehardened steel, stainless steels, titanium alloy etc.
- Excellent work piece finishes.
- 4 Flutes, high rigidity, widely used in shallow slot, profile milling, and finish machining.



| 加工材料 Material Description | | | | | | | | | | | |
|---------------------------|--------------|--------------------|-----------------|----------------------|----------|----------|-----------|----------|------------------|----------|---------|
| 碳钢 | 合金钢 | 预硬钢 | 硬化钢 | 高硬钢 | 铜 | 石墨 | 铸铁 | 铝 | 不锈钢 | 钛 | 镍钛合金 |
| Carbon Steels | Alloy Steels | Prehardened Steels | Hardened Steels | High Hardened steels | Copper | Graphite | Cast Iron | Aluminum | Stainless Steels | Titanium | Inconel |
| ~HB225 | ~HB225-325 | ~HRc30-40 | HRc40-45 | HRc45-55 | HRc55-70 | | | | | | |
| ○ | ○ | ○ | ○ | ○ | | | ○ | | ○ | ○ | |

◎ 非常合适 ○ 适合

EMT04 SERIES

Unit:mm

| 优能特 订货代码 | 刀径 | 柄径 | 刃长 | 全长 | 刃数 |
|--------------|-------------|--------------|-----------------|-------------|--------|
| UNT EDP NO. | Mill Dia D1 | Shank Dia D2 | Flute length L1 | O. A. L. L2 | Flutes |
| EMT04010075 | 1.0 | 4 | 5 | 75 | 4 |
| EMT04015075 | 1.5 | 4 | 6 | 75 | 4 |
| EMT04020075 | 2.0 | 4 | 8 | 75 | 4 |
| EMT04025075 | 2.5 | 4 | 8 | 75 | 4 |
| EMT04030075 | 3.0 | 4 | 10 | 75 | 4 |
| EMT04040075 | 4.0 | 4 | 12 | 75 | 4 |
| EMT04040100 | 4.0 | 4 | 12 | 100 | 4 |
| EMT040100756 | 1.0 | 6 | 5 | 75 | 4 |
| EMT040150756 | 1.5 | 6 | 6 | 75 | 4 |
| EMT040200756 | 2.0 | 6 | 8 | 75 | 4 |
| EMT040250756 | 2.5 | 6 | 8 | 75 | 4 |
| EMT040300756 | 3.0 | 6 | 10 | 75 | 4 |
| EMT040400756 | 4.0 | 6 | 12 | 75 | 4 |
| EMT04050075 | 5.0 | 6 | 16 | 75 | 4 |
| EMT04050100 | 5.0 | 6 | 16 | 100 | 4 |
| EMT04060075 | 6.0 | 6 | 20 | 75 | 4 |
| EMT04060100 | 6.0 | 6 | 30 | 100 | 4 |
| EMT04080075 | 8.0 | 8 | 25 | 75 | 4 |
| EMT04080100 | 8.0 | 8 | 35 | 100 | 4 |
| EMT04100100 | 10.0 | 10 | 40 | 100 | 4 |
| EMT04120100 | 12.0 | 12 | 45 | 100 | 4 |
| EMT04060150 | 6.0 | 6 | 35 | 150 | 4 |
| EMT04080150 | 8.0 | 8 | 40 | 150 | 4 |
| EMT04100150 | 10.0 | 10 | 50 | 150 | 4 |
| EMT04120150 | 12.0 | 12 | 50 | 150 | 4 |
| EMT04160150 | 16.0 | 16 | 70 | 150 | 4 |

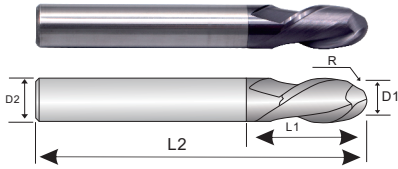
以上产品未列明细的非标规格尺寸或产品参数, 可根据客户需求订制作。
Non-standard size or product parameters not listed above, can be customized according to customer needs.

| MILL DIA. TOLERANCE (mm) 刃径公差 (mm) | | SHANK DIA. TOLERANCE 柄径公差 |
|---------------------------------------|----------------------|------------------------------|
| DIAMETER直径 | TOLERANCE公差 | |
| ~∅6以下 ∅6超过 | -0.015~0 -0.020~0 | H6 |

EMT 通用型钨钢二刃球头铣刀 **2 Flute, Ball Nose, 35 Degree Helix, Regular Length**

- ★ 设计用于低硬度材料 (HRC45以下), 合金钢, 铬镍铁合金, 工具钢, 碳素钢, 预硬化钢, 不锈钢, 钛合金等
- ★ 4D刃部设计, 多变螺旋角设计 (约35°), 有效的改善插削加工和粗加工。
- ★ 切削直径小至0.01mm
- ★ 适合适用于轮廓加工, 插削加工, 倒角加工, 易于安装。

- Designed to low hardness materials (under HRC45), alloy steel, inconel, tools steel, carbon steel, prehardened steel, stainless steels, titanium alloy etc.
- 4D flute, variable helix design (Approx, 35°) for improved slotting and roughing.
- Cutter diameter down to 0.01mm
- Profile, Slot, Chamfer design, easy to install.



| 加工材料 Material Description | | | | | | | | | | | |
|---------------------------|--------------|--------------------|-----------------|----------------------|--------|----------|-----------|----------|------------------|----------|---------|
| 碳钢 | 合金钢 | 预硬钢 | 硬化钢 | 高硬钢 | 铜 | 石墨 | 铸铁 | 铝 | 不锈钢 | 钛 | 镍钴合金 |
| Carbon Steels | Alloy Steels | Prehardened Steels | Hardened Steels | High Hardened Steels | Copper | Graphite | Cast Iron | Aluminum | Stainless Steels | Titanium | Inconel |
| ~HB225 | ~HB225-325 | ~HRC30-40 | HRC40-45 | HRC45-55 | | | | | | | |
| ○ | ○ | ○ | ○ | ○ | | | ○ | | ○ | ○ | |

◎ 非常适合 ○ 适合

EMT05 SERIES

Unit:mm

| 优能特 订货代码 | 刀径 | 半径 | 柄径 | 刃长 | 全长 | 刃数 |
|-------------|-------------|----------|--------------|-----------------|-------------|--------|
| UNT EDP NO. | Mill Dia D1 | Radius R | Shank Dia D2 | Flute length L1 | O. A. L. L2 | Flutes |
| EMT050103 | 1.0 | R0.5 | 3 | 2 | 50 | 2 |
| EMT050153 | 1.5 | R0.75 | 3 | 3 | 50 | 2 |
| EMT050203 | 2.0 | R1.0 | 3 | 4 | 50 | 2 |
| EMT050303 | 3.0 | R1.5 | 3 | 6 | 50 | 2 |
| EMT050034 | 0.3 | R0.15 | 4 | 0.6 | 50 | 2 |
| EMT050044 | 0.4 | R0.2 | 4 | 0.8 | 50 | 2 |
| EMT050054 | 0.5 | R0.25 | 4 | 1.0 | 50 | 2 |
| EMT050064 | 0.6 | R0.3 | 4 | 1.2 | 50 | 2 |
| EMT050074 | 0.7 | R0.35 | 4 | 1.4 | 50 | 2 |
| EMT050084 | 0.8 | R0.4 | 4 | 1.6 | 50 | 2 |
| EMT050094 | 0.9 | R0.45 | 4 | 1.8 | 50 | 2 |
| EMT050104 | 1.0 | R0.5 | 4 | 2 | 50 | 2 |
| EMT050124 | 1.2 | R0.6 | 4 | 2.4 | 50 | 2 |
| EMT050144 | 1.4 | R0.7 | 4 | 2.8 | 50 | 2 |
| EMT050164 | 1.6 | R0.8 | 4 | 3.2 | 50 | 2 |
| EMT050184 | 1.8 | R0.9 | 4 | 3.6 | 50 | 2 |
| EMT050154 | 1.5 | R0.75 | 4 | 3 | 50 | 2 |
| EMT050204 | 2.0 | R1.0 | 4 | 4 | 50 | 2 |
| EMT050254 | 2.5 | R1.25 | 4 | 5 | 50 | 2 |
| EMT050304 | 3.0 | R1.5 | 4 | 6 | 50 | 2 |
| EMT050404 | 4.0 | R2.0 | 4 | 8 | 50 | 2 |
| EMT050106 | 1.0 | R0.5 | 6 | 2 | 50 | 2 |
| EMT050156 | 1.5 | R0.75 | 6 | 3 | 50 | 2 |
| EMT050206 | 2.0 | R1.0 | 6 | 4 | 50 | 2 |
| EMT050256 | 2.5 | R1.25 | 6 | 5 | 50 | 2 |
| EMT050306 | 3.0 | R1.5 | 6 | 6 | 50 | 2 |
| EMT050406 | 4.0 | R2.0 | 6 | 8 | 50 | 2 |
| EMT050500 | 5.0 | R2.5 | 6 | 10 | 50 | 2 |
| EMT050600 | 6.0 | R3.0 | 6 | 12 | 50 | 2 |
| EMT050700 | 7.0 | R3.5 | 8 | 14 | 60 | 2 |
| EMT050800 | 8.0 | R4.0 | 8 | 16 | 60 | 2 |
| EMT051000 | 10.0 | R5.0 | 10 | 20 | 75 | 2 |
| EMT051200 | 12.0 | R6.0 | 12 | 24 | 75 | 2 |
| EMT051600 | 16.0 | R8.0 | 16 | 32 | 100 | 2 |
| EMT052000 | 20.0 | R10.0 | 20 | 40 | 100 | 2 |

以上产品未列明细的非标规格尺寸或产品参数, 可根据客户需求定制制作。
Non-standard size or product parameters not listed above, can be customized according to customer needs.

| MILL DIA. TOLERANCE (mm) 刃径公差 (mm) | | SHANK DIA. TOLERANCE 柄径公差 |
|---------------------------------------|----------------------|------------------------------|
| DIAMETER直径 | TOLERANCE公差 | |
| ~Ø6以下 Ø6超过 | -0.015~0 -0.020~0 | H6 |

EMT 通用型钨钢二刃加长球头铣刀

2 Flute, Ball Nose Carbide, Long Length

- ★ 设计用于低硬度材料 (HRC45以下), 合金钢, 铬镍铁合金, 工具钢, 碳素钢, 预硬化钢, 不锈钢, 钛合金等
- ★ 4D刃部设计, 多变螺旋角设计 (约35°), 有效的改善插削加工和粗加工。
- ★ 切削直径小至0.01mm
- ★ 适合适用于轮廓加工, 插削加工, 倒角加工, 易于安装。

- Designed to low hardness materials (under HRC45), alloy steel, inconel, tools steel, carbon steel, prehardened steel, stainless steels, titanium alloy etc.
- 4D flute, variable helix design (Approx, 35°) for improved slotting and roughing.
- Cutter diameter down to 0.01mm
- Profile, Slot, Chamfer design, easy to install.



| 加工材料 Material Description | | | | | | | | | | | | |
|---------------------------|--------------|--------------------|-----------------|----------|----------------------|--------|----------|-----------|----------|------------------|----------|---------|
| 碳钢 | 合金钢 | 预硬钢 | 硬化钢 | | 高硬钢 | 铜 | 石墨 | 铸铁 | 铝 | 不锈钢 | 钛 | 镍铬铁合金 |
| Carbon Steels | Alloy Steels | Prehardened Steels | Hardened Steels | | High Hardened Steels | Copper | Graphite | Cast Iron | Aluminum | Stainless Steels | Titanium | Inconel |
| -HRC25 | +HRC25-325 | -HRC30-40 | HRc40-45 | HRc45-55 | HRc55-70 | | | | | | | |
| ○ | ○ | ○ | ○ | ○ | ○ | | | ○ | | | ○ | |

◎ 非常合适 ○ 适合

EMT06 SERIES

Unit:mm

| 优能特 订货代码 | 刀径 | 半径 | 柄径 | 刃长 | 全长 | 刃数 |
|--------------|-------------|----------|--------------|-----------------|-------------|--------|
| UNT EDP NO. | Mill Dia D1 | Radius R | Shank Dia D2 | Flute length L1 | O. A. L. L2 | Flutes |
| EMT06010075 | 1.0 | R0.5 | 4 | 2 | 75 | 2 |
| EMT06015075 | 1.5 | R0.75 | 4 | 3 | 75 | 2 |
| EMT06020075 | 2.0 | R1.0 | 4 | 4 | 75 | 2 |
| EMT06030075 | 3.0 | R1.5 | 4 | 6 | 75 | 2 |
| EMT06040075 | 4.0 | R2.0 | 4 | 8 | 75 | 2 |
| EMT06040100 | 4.0 | R2.0 | 4 | 8 | 100 | 2 |
| EMT060100756 | 1.0 | R0.5 | 6 | 2 | 75 | 2 |
| EMT060150756 | 1.5 | R0.75 | 6 | 3 | 75 | 2 |
| EMT060200756 | 2.0 | R1.0 | 6 | 4 | 75 | 2 |
| EMT060300756 | 3.0 | R1.5 | 6 | 6 | 75 | 2 |
| EMT060400756 | 4.0 | R2.0 | 6 | 8 | 75 | 2 |
| EMT06050075 | 5.0 | R2.5 | 6 | 10 | 75 | 2 |
| EMT06050100 | 5.0 | R2.5 | 6 | 10 | 100 | 2 |
| EMT06060075 | 6.0 | R3.0 | 6 | 12 | 75 | 2 |
| EMT06060100 | 6.0 | R3.0 | 6 | 12 | 100 | 2 |
| EMT06080075 | 8.0 | R4.0 | 8 | 16 | 75 | 2 |
| EMT06080100 | 8.0 | R4.0 | 8 | 16 | 100 | 2 |
| EMT06100100 | 10.0 | R5.0 | 10 | 20 | 100 | 2 |
| EMT06120100 | 12.0 | R6.0 | 12 | 24 | 100 | 2 |
| EMT06060150 | 6.0 | R3.0 | 6 | 12 | 150 | 2 |
| EMT06080150 | 8.0 | R4.0 | 8 | 16 | 150 | 2 |
| EMT06100150 | 10.0 | R5.0 | 10 | 20 | 150 | 2 |
| EMT06120150 | 12.0 | R6.0 | 12 | 24 | 150 | 2 |
| EMT06160150 | 16.0 | R8.0 | 16 | 32 | 150 | 2 |
| EMT06200150 | 20.0 | R10.0 | 20 | 40 | 150 | 2 |

以上产品未列明细的非标规格尺寸或产品参数, 可根据客户需求定制制作。

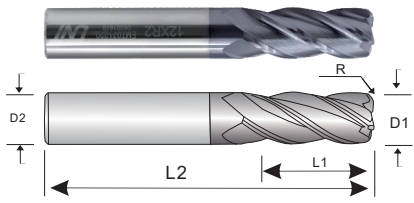
Non-standard size or product parameters not listed above, can be customized according to customer needs.

| MILL DIA. TOLERANCE (mm) 刃径公差 (mm) | | SHANK DIA. TOLERANCE 柄径公差 |
|---------------------------------------|----------------------|------------------------------|
| DIAMETER直径 | TOLERANCE公差 | |
| ~∅6以下 ∅6超过 | -0.015~0 -0.020~0 | H6 |

EMT 通用型钨钢四刃圆角铣刀 **Carbide HRC45, 4 Flute Corner Radius, Regular Length**

- ★ 设计适用于低硬度材料 (HRC45以下), 合金钢, 铬镍铁合金, 工具钢, 碳素钢, 预硬化钢, 不锈钢, 钛合金等材料的加工
- ★ 具有高速切削、高进给切削的特点, 适合用于精加工。
- ★ 4刃设计可以更好地加工工件。
- ★ 适合轮廓加工和插削加工。

- Designed to low hardness materials (under HRC45), alloy steel, inconel, tools steel, carbon steel, prehardened steel, stainless steels, titanium alloy etc.
- High speed Cutting and finish Milling with high feed rate.
- 4 flute allows for better workpieces finishes.
- Great for profile milling and slotting.



| 加工材料 Material Description | | | | | | | | | | | | |
|---------------------------|--------------|--------------------|-----------------|----------|----------------------|--------|----------|-----------|----------|------------------|----------|---------|
| 碳钢 | 合金钢 | 预硬钢 | 硬化钢 | | 高硬钢 | 铜 | 石墨 | 铸铁 | 铝 | 不锈钢 | 钛 | 铂镍钛合金 |
| Carbon Steels | Alloy Steels | Prehardened Steels | Hardened Steels | | High Hardened steels | Copper | Graphite | Cast Iron | Aluminum | Stainless Steels | Titanium | Inconel |
| -HB225 | +HB225-325 | -HRC30-40 | HRC40-45 | HRC45-55 | HRC55-70 | | | | | | | |
| ● | ● | ● | ● | ● | ● | ○ | | ○ | | ○ | ○ | ○ |

◎ 非常适合 ○ 适合

EMT07 SERIES

Unit:mm

| 优能特 订货代码 | 刀径 | R角 | 柄径 | 刃长 | 全长 | 刃数 |
|-------------|-------------|------------|--------------|-----------------|-------------|--------|
| UNT EDP NO. | Mill Dia D1 | Diameter R | Shank Dia D2 | Flute length L1 | O. A. L. L2 | Flutes |
| EMT070101 | 1 | R0.1 | 4 | 3 | 50 | 4 |
| EMT070102 | 1 | R0.2 | 4 | 3 | 50 | 4 |
| EMT070201 | 2 | R0.1 | 4 | 6 | 50 | 4 |
| EMT070202 | 2 | R0.2 | 4 | 6 | 50 | 4 |
| EMT070203 | 2 | R0.3 | 4 | 6 | 50 | 4 |
| EMT070301 | 3 | R0.1 | 4 | 8 | 50 | 4 |
| EMT070302 | 3 | R0.2 | 4 | 8 | 50 | 4 |
| EMT070303 | 3 | R0.3 | 4 | 8 | 50 | 4 |
| EMT070305 | 3 | R0.5 | 4 | 8 | 50 | 4 |
| EMT070310 | 3 | R1.0 | 4 | 8 | 50 | 4 |
| EMT070402 | 4 | R0.2 | 4 | 11 | 50 | 4 |
| EMT070403 | 4 | R0.3 | 4 | 11 | 50 | 4 |
| EMT070405 | 4 | R0.5 | 4 | 11 | 50 | 4 |
| EMT070410 | 4 | R1.0 | 4 | 11 | 50 | 4 |
| EMT070602 | 6 | R0.2 | 6 | 16 | 50 | 4 |
| EMT070603 | 6 | R0.3 | 6 | 16 | 50 | 4 |
| EMT070605 | 6 | R0.5 | 6 | 16 | 50 | 4 |
| EMT070610 | 6 | R1.0 | 6 | 16 | 50 | 4 |
| EMT070615 | 6 | R1.5 | 6 | 16 | 50 | 4 |
| EMT070620 | 6 | R2.0 | 6 | 16 | 50 | 4 |
| EMT070802 | 8 | R0.2 | 8 | 20 | 60 | 4 |
| EMT070803 | 8 | R0.3 | 8 | 20 | 60 | 4 |
| EMT070805 | 8 | R0.5 | 8 | 20 | 60 | 4 |
| EMT070810 | 8 | R1.0 | 8 | 20 | 60 | 4 |
| EMT070815 | 8 | R1.5 | 8 | 20 | 60 | 4 |
| EMT070820 | 8 | R2.0 | 8 | 20 | 60 | 4 |
| EMT071005 | 10 | R0.5 | 10 | 25 | 75 | 4 |
| EMT071010 | 10 | R1.0 | 10 | 25 | 75 | 4 |
| EMT071015 | 10 | R1.5 | 10 | 25 | 75 | 4 |
| EMT071020 | 10 | R2.0 | 10 | 25 | 75 | 4 |
| EMT071030 | 10 | R3.0 | 10 | 25 | 75 | 4 |
| EMT071205 | 12 | R0.5 | 12 | 30 | 75 | 4 |
| EMT071210 | 12 | R1.0 | 12 | 30 | 75 | 4 |
| EMT071215 | 12 | R1.5 | 12 | 30 | 75 | 4 |
| EMT071220 | 12 | R2.0 | 12 | 30 | 75 | 4 |
| EMT071230 | 12 | R3.0 | 12 | 30 | 75 | 4 |

以上产品未列明细的非标规格尺寸或产品参数, 可根据客户需求定制制作。
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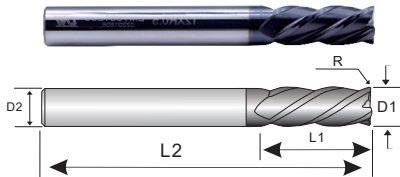
| MILL DIA. TOLERANCE (mm) 刃径公差 (mm) | | SHANK DIA. TOLERANCE 柄径公差 |
|---------------------------------------|----------------------|------------------------------|
| DIAMETER直径 | TOLERANCE公差 | |
| ~Ø6以下 Ø6超过 | -0.015~0 -0.020~0 | H6 |

EMT 通用型钨钢四刃加长圆角铣刀

Carbide HRC45, 4 Flute Corner Radius, Long Length

- ★ 设计适用于低硬度材料 (HRC45以下), 合金钢, 铬镍铁合金, 工具钢, 碳素钢, 预硬化钢, 不锈钢, 钛合金等材料的加工
- ★ 具有高速切削、高进给切削的特点, 适合用于精加工。
- ★ 4刃设计可以更好地加工工件。
- ★ 适合轮廓加工和插削加工。

- Designed to low hardness materials (under HRC45), alloy steel, inconel, tools steel, carbon steel, prehardened steel, stainless steels, titanium alloy etc.
- High speed Cutting and finish Milling with high feed rate.
- 4 flute allows for better workpieces finishes.
- Great for profile milling and slotting.



| 加工材料 Material Description | | | | | | | | | | | | |
|---------------------------|--------------|--------------------|-----------------|----------|----------------------|--------|----------|-----------|----------|------------------|----------|---------|
| 碳钢 | 合金钢 | 预硬钢 | 硬化钢 | | 高硬钢 | 铜 | 石墨 | 铸铁 | 铝 | 不锈钢 | 钛 | 铂镍钛合金 |
| Carbon Steels | Alloy Steels | Prehardened Steels | Hardened Steels | | High Hardened steels | Copper | Graphite | Cast Iron | Aluminum | Stainless Steels | Titanium | Inconel |
| ~HB225 | ~HB225-325 | ~HRC30-40 | HRC43-45 | HRC45-55 | HRC55-70 | | | | | | | |

◎ 非常适合 ○ 适合

EMT08 SERIES

Unit:mm

| 优能特 订货代码 | 刀径 | R角 | 柄径 | 刃长 | 全长 | 刃数 |
|-------------|----------------|---------------|-----------------|--------------------|----------------|--------|
| UNT EDP NO. | Mill Dia D1 | Diameter R | Shank Dia D2 | Flute length L1 | O. A. L. L2 | Flutes |
| EMT0804075 | 4 | R0.5 | 4 | 11 | 75 | 4 |
| EMT0804100 | 4 | R0.5 | 4 | 11 | 100 | 4 |
| EMT0806075 | 6 | R0.5 | 6 | 16 | 75 | 4 |
| EMT080605 | 6 | R0.5 | 6 | 16 | 100 | 4 |
| EMT080610 | 6 | R1.0 | 6 | 16 | 100 | 4 |
| EMT080615 | 6 | R1.5 | 6 | 16 | 100 | 4 |
| EMT080620 | 6 | R2.0 | 6 | 16 | 100 | 4 |
| EMT0808051 | 8 | R0.5 | 8 | 20 | 75 | 4 |
| EMT080505 | 8 | R0.5 | 8 | 20 | 100 | 4 |
| EMT080810 | 8 | R1.0 | 8 | 20 | 100 | 4 |
| EMT080815 | 8 | R1.5 | 8 | 20 | 100 | 4 |
| EMT080820 | 8 | R2.0 | 8 | 20 | 100 | 4 |
| EMT081005 | 10 | R0.5 | 10 | 25 | 100 | 4 |
| EMT081010 | 10 | R1.0 | 10 | 25 | 100 | 4 |
| EMT081015 | 10 | R1.5 | 10 | 25 | 100 | 4 |
| EMT081020 | 10 | R2.0 | 10 | 25 | 100 | 4 |
| EMT081230 | 10 | R3.0 | 10 | 25 | 100 | 4 |
| EMT081205 | 12 | R0.5 | 12 | 30 | 100 | 4 |
| EMT081210 | 12 | R1.0 | 12 | 30 | 100 | 4 |
| EMT081215 | 12 | R1.5 | 12 | 30 | 100 | 4 |
| EMT081220 | 12 | R2.0 | 12 | 30 | 100 | 4 |
| EMT081230 | 12 | R3.0 | 12 | 30 | 100 | 4 |

以上产品未列明细的非标规格尺寸或产品参数, 可根据客户需求订制制作。

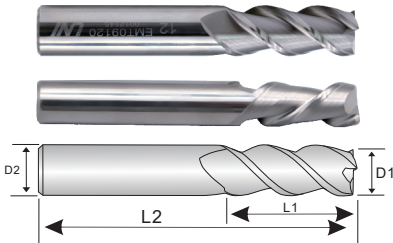
Non-standard size or product parameters not listed above, can be customized according to customer needs.

| MILL DIA. TOLERANCE (mm) 刃径公差 (mm) | | SHANK DIA. TOLERANCE 柄径公差 |
|--|----------------------|---------------------------------|
| DIAMETER直径 | TOLERANCE公差 | |
| ~∅6以下 ∅6超过 | -0.015~0 -0.020~0 | H6 |

EMT 通用型铝合金专用三刃平底铣刀 **Carbide, 3 Flutes End mills for aluminum slot drills**

- ★ 设计适用于低硬度材料 (HRc45以下), 铝, 铝压铸件, 铜, 有色合金和塑料。
- ★ 3刃“中心槽”设计-3刃均位于中心点, 表面光洁度高。
- ★ 具有高进给, 高转速, 高切屑去除率(重切削)的特点, 性能卓越。
- ★ 适用于轮廓加工, 插削加工, 倒角加工。

- Designed to low hardness materials (under HRc45), Aluminum, Aluminum Die Cast, Copper, Non-Ferrous Alloy and Plastic.
- 3 Flute design "To the center" - all 3 flutes come to the center, good surface finishes
- Excellent performance with high feed, high RPM, high chip removal (heavy cutting)
- Profile, Slot, Chamfer Cutting



| 加工材料 Material Description | | | | | | | | | | | |
|---------------------------|--------------|--------------------|-----------------|----------------------|----------|----------|-----------|----------|------------------|----------|---------|
| 碳钢 | 合金钢 | 预硬钢 | 硬化钢 | 高硬钢 | 铜 | 石墨 | 铸铁 | 铝 | 不锈钢 | 钛 | 镍钛合金 |
| Carbon Steels | Alloy Steels | Prehardened Steels | Hardened Steels | High Hardened steels | Copper | Graphite | Cast Iron | Aluminum | Stainless Steels | Titanium | Inconel |
| ~HB225 | ~HB225-325 | ~HRc30-40 | HRc40-45 | HRc45-55 | HRc55-70 | | | | | | |
| ○ | | | | | ● | | | ○ | | | ○ |

● 非常合适 ○ 适合

EMT09 SERIES

| 优能特 订货代码 | 刀径 | 柄径 | 刃长 | 全长 | 刃数 |
|-------------|-------------|--------------|-----------------|-------------|--------|
| UNT EDP NO. | Mill Dia D1 | Shank Dia D2 | Flute length L1 | O. A. L. L2 | Flutes |
| EMT09010 | 1.0 | 4 | 3 | 50 | 3 |
| EMT09015 | 1.5 | 4 | 4 | 50 | 3 |
| EMT09020 | 2.0 | 4 | 6 | 50 | 3 |
| EMT09025 | 2.5 | 4 | 6 | 50 | 3 |
| EMT090301 | 3.0 | 3 | 8 | 50 | 3 |
| EMT09030 | 3.0 | 4 | 8 | 50 | 3 |
| EMT09040 | 4.0 | 4 | 11 | 50 | 3 |
| EMT090501 | 5.0 | 5 | 13 | 50 | 3 |
| EMT09050 | 5.0 | 6 | 13 | 50 | 3 |
| EMT09060 | 6.0 | 6 | 16 | 50 | 3 |
| EMT09070 | 7.0 | 8 | 20 | 60 | 3 |
| EMT09080 | 8.0 | 8 | 20 | 60 | 3 |
| EMT09090 | 9.0 | 10 | 25 | 75 | 3 |
| EMT0909100 | 10.0 | 10 | 25 | 75 | 3 |
| EMT0909120 | 12.0 | 12 | 30 | 75 | 3 |
| EMT0909140 | 14.0 | 14 | 40 | 100 | 3 |
| EMT0909160 | 16.0 | 16 | 40 | 100 | 3 |
| EMT0909200 | 20.0 | 20 | 40 | 100 | 3 |

EMT12 SERIES

通用型铝合金专用三刃加长平底铣刀
Carbide, 3 Flutes aluminum slot drills, Long Length

| 优能特 订货代码 | 刀径 | 柄径 | 刃长 | 全长 | 刃数 |
|-------------|-------------|--------------|-----------------|-------------|--------|
| UNT EDP NO. | Mill Dia D1 | Shank Dia D2 | Flute length L1 | O. A. L. L2 | Flutes |
| EMT12010075 | 1.0 | 4 | 5 | 75 | 3 |
| EMT12015075 | 1.5 | 4 | 6 | 75 | 3 |
| EMT12020075 | 2.0 | 4 | 8 | 75 | 3 |
| EMT12025075 | 2.5 | 4 | 8 | 75 | 3 |
| EMT12030075 | 3.0 | 4 | 10 | 75 | 3 |
| EMT12040075 | 4.0 | 4 | 12 | 75 | 3 |
| EMT12040100 | 4.0 | 4 | 12 | 100 | 3 |
| EMT12050075 | 5.0 | 6 | 16 | 75 | 3 |
| EMT12050100 | 5.0 | 6 | 16 | 100 | 3 |
| EMT12060075 | 6.0 | 6 | 25 | 75 | 3 |
| EMT12060100 | 6.0 | 6 | 30 | 100 | 3 |
| EMT12080075 | 8.0 | 8 | 25 | 75 | 3 |
| EMT12080100 | 8.0 | 8 | 35 | 100 | 3 |
| EMT12100100 | 10.0 | 10 | 40 | 100 | 3 |
| EMT12120100 | 12.0 | 12 | 45 | 100 | 3 |

以上产品未列明细的非标规格尺寸或产品参数, 可根据客户需求定制制作。
Non-standard size or product parameters not listed above, can be customized according to customer needs.

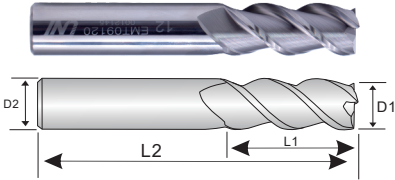
| MILL DIA. TOLERANCE (mm) 刃径公差 (mm) | | SHANK DIA. TOLERANCE 柄径公差 |
|---------------------------------------|----------------------|------------------------------|
| DIAMETER直径 | TOLERANCE公差 | |
| ~∅6以下 ∅6超过 | -0.015~0 -0.020~0 | H6 |

EMT 通用型铝合金专用二刃平底铣刀

Square 2 Flutes aluminum slot drills, Universal style

- ★ 设计适用于低硬度材料 (HRc45以下), 铝, 铝压铸件, 铜, 有色金属和塑料。
- ★ 3刃“中心槽”设计-3刃均位于中心点, 表面光洁度高。
- ★ 具有高进给, 高转速, 高切屑去除率(重切削)的特点, 性能卓越。
- ★ 适用于轮廓加工, 插削加工, 倒角加工。

- Designed to low hardness materials (under HRc45), Aluminum, Aluminum Die Cast, Copper, Non-Ferrous Alloy and Plastic.
- 3 Flute design "To the center" - all 3 flutes come to the center, good surface finishes
- Excellent performance with high feed, high RPM, high chip removal (heavy cutting)
- Profile, Slot, Chamfer Cutting



| 加工材料 Material Description | | | | | | | | | | | | |
|---------------------------|----------------------|--------------------|-----------------|----------|----------------------|--------|----------|-----------|----------|------------------|----------|---------|
| 碳钢 | 合金钢 | 预硬钢 | 硬化钢 | | 高硬钢 | 铜 | 石墨 | 铸铁 | 铝 | 不锈钢 | 钛 | 镍钴钛合金 |
| Carbon Steels | Alloy Steels | Prehardened Steels | Hardened Steels | | High Hardened steels | Copper | Graphite | Cast Iron | Aluminum | Stainless Steels | Titanium | Inconel |
| ○ | ~HB225 ~HB225-325 | ~HRc30-40 | HRc40-45 | HRc45-55 | HRc55-70 | ○ | | ○ | ○ | | ○ | |

○ 非常适合 ○ 适合

EMT10 SERIES

Unit:mm

| 优能特 订货代码 | 刀径 | 柄径 | 刃长 | 全长 | 刃数 |
|-------------|----------------|-----------------|--------------------|----------------|--------|
| UNT EDP NO. | Mill Dia D1 | Shank Dia D2 | Flute length L1 | O. A. L. L2 | Flutes |
| EMT10010 | 1.0 | 4 | 3 | 50 | 2 |
| EMT10015 | 1.5 | 4 | 4 | 50 | 2 |
| EMT10020 | 2.0 | 4 | 6 | 50 | 2 |
| EMT10025 | 2.5 | 4 | 6 | 50 | 2 |
| EMT10030 | 3.0 | 4 | 8 | 50 | 2 |
| EMT10040 | 4.0 | 4 | 11 | 50 | 2 |
| EMT10050 | 5.0 | 6 | 13 | 50 | 2 |
| EMT10060 | 6.0 | 6 | 16 | 50 | 2 |
| EMT10070 | 7.0 | 8 | 20 | 60 | 2 |
| EMT10080 | 8.0 | 8 | 20 | 60 | 2 |
| EMT10090 | 9.0 | 10 | 25 | 75 | 2 |
| EMT10100 | 10.0 | 10 | 25 | 75 | 2 |
| EMT10120 | 12.0 | 12 | 30 | 75 | 2 |
| EMT10140 | 14.0 | 14 | 40 | 100 | 2 |
| EMT10160 | 16.0 | 16 | 40 | 100 | 2 |
| EMT10200 | 20.0 | 20 | 40 | 100 | 2 |

以上产品未列明细的非标规格尺寸或产品参数, 可根据客户需求订制制作。

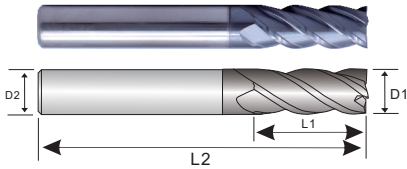
Non-standard size or product parameters not listed above, can be customized according to customer needs.

| MILL DIA. TOLERANCE (mm) 刃径公差 (mm) | | SHANK DIA. TOLERANCE 柄径公差 |
|--|----------------------|---------------------------------|
| DIAMETER直径 | TOLERANCE公差 | |
| ~Ø6以下 Ø6超过 | -0.015~0 -0.020~0 | H6 |

EMT 通用型不锈钢四刃平底铣刀 **Square 4 Flute for Stainless steels, Universal style**

- ★ 设计适用于低硬度材料 (HRC45以下), 不锈钢, 钛合金, 合金钢, 碳钢, 预硬化钢等低硬度材料
- ★ 4D刃部设计, 多变螺旋角设计 (约35°), 有效的改善插削加工和粗加工。

- Designed to low hardness materials (under HRC45), stainless steel, titanium alloy, alloy steel, carbon steel, prehardened steel, etc low hardness materials.
- 4D flute, variable helix design (Approx, 35°) for improved slotting and roughing.



| 加工材料 Material Description | | | | | | | | | | | | |
|---------------------------|--------------|--------------------|-----------------|----------|----------------------|--------|----------|-----------|----------|------------------|----------|---------|
| 碳钢 | 合金钢 | 预硬钢 | 硬化钢 | | 高硬钢 | 铜 | 石墨 | 铸铁 | 铝 | 不锈钢 | 钛 | 铂镍钛合金 |
| Carbon Steels | Alloy Steels | Prehardened Steels | Hardened Steels | | High Hardened steels | Copper | Graphite | Cast Iron | Aluminum | Stainless Steels | Titanium | Inconel |
| ~HB225 | +HB225-325 | +HRC30-40 | HRC40-45 | HRC45-55 | HRC55-70 | | | | | | | |
| ○ | ○ | ○ | ○ | ○ | ○ | | | | ○ | | ○ | |

◎ 非常适合 ○ 适合

EMT11 SERIES

Unit:mm

| 优能特 订货代码 | 刀径 | 柄径 | 刃长 | 全长 | 刃数 |
|-------------|-------------|--------------|-----------------|-------------|--------|
| UNT EDP NO. | Mill Dia D1 | Shank Dia D2 | Flute length L1 | O. A. L. L2 | Flutes |
| EMT110104 | 1.0 | 4 | 3 | 50 | 4 |
| EMT110154 | 1.5 | 4 | 4 | 50 | 4 |
| EMT110204 | 2.0 | 4 | 6 | 50 | 4 |
| EMT110254 | 2.5 | 4 | 6 | 50 | 4 |
| EMT110304 | 3.0 | 4 | 8 | 50 | 4 |
| EMT110354 | 3.5 | 4 | 10 | 50 | 4 |
| EMT110404 | 4.0 | 4 | 11 | 50 | 4 |
| EMT110106 | 1.0 | 6 | 3 | 50 | 4 |
| EMT110156 | 1.5 | 6 | 4 | 50 | 4 |
| EMT110206 | 2.0 | 6 | 6 | 50 | 4 |
| EMT110256 | 2.5 | 6 | 6 | 50 | 4 |
| EMT110306 | 3.0 | 6 | 8 | 50 | 4 |
| EMT110356 | 3.5 | 6 | 10 | 50 | 4 |
| EMT110406 | 4.0 | 6 | 11 | 50 | 4 |
| EMT110450 | 4.5 | 6 | 13 | 50 | 4 |
| EMT110500 | 5.0 | 6 | 13 | 50 | 4 |
| EMT110550 | 5.5 | 6 | 16 | 50 | 4 |
| EMT110600 | 6.0 | 6 | 16 | 50 | 4 |
| EMT110650 | 6.5 | 8 | 20 | 60 | 4 |
| EMT110700 | 7.0 | 8 | 20 | 60 | 4 |
| EMT110750 | 7.5 | 8 | 20 | 60 | 4 |
| EMT110800 | 8.0 | 8 | 20 | 60 | 4 |
| EMT110850 | 8.5 | 10 | 25 | 75 | 4 |
| EMT110900 | 9.0 | 10 | 25 | 75 | 4 |
| EMT110950 | 9.5 | 10 | 25 | 75 | 4 |
| EMT111000 | 10.0 | 10 | 25 | 75 | 4 |
| EMT111050 | 10.5 | 12 | 30 | 75 | 4 |
| EMT111100 | 11.0 | 12 | 30 | 75 | 4 |
| EMT111200 | 12.0 | 12 | 30 | 75 | 4 |
| EMT111400 | 14.0 | 14 | 30 | 90 | 4 |
| EMT111600 | 16.0 | 16 | 40 | 100 | 4 |
| EMT112000 | 20.0 | 20 | 40 | 100 | 4 |

以上产品未列明细的非标规格尺寸或产品参数, 可根据客户需求订制制作。
Non-standard size or product parameters not listed above, can be customized according to customer needs.

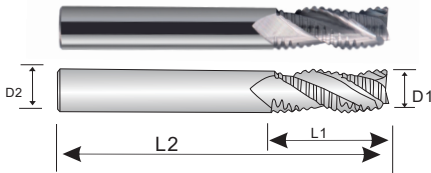
| MILL DIA. TOLERANCE (mm) 刃径公差 (mm) | | SHANK DIA. TOLERANCE 柄径公差 |
|---------------------------------------|----------------------|------------------------------|
| DIAMETER直径 | TOLERANCE公差 | |
| ~Ø6以下 Ø6超过 | -0.015~0 -0.020~0 | H6 |

EMT通用型铝合金专用三刃粗皮铣刀

Carbide, 3 Flutes/3 Alu Power Rougher Tools

- ★ 适用于加工机械铝合金/铜合金/石墨/树脂和非铁材料。
- ★ 3刃设计，能够很好的减少切削阻力。
- ★ 特殊的产品形状设计，可在加工过程中实现高进给率和重切削。
- ★ 适合于产品的粗加工。

- High performance in machine Aluminum Alloy / Copper Alloy / Graphite / Resin and non-Ferrous Material.
- 3 Flute Roughing tooth profile to reduce cutting forces.
- Special tool geometry for high feed rate and heavy cutting.
- Rougher Cutting



| 加工材料 Material Description | | | | | | | | | | | | |
|---------------------------|--------------|--------------------|-----------------|----------|----------------------|--------|----------|-----------|----------|------------------|----------|---------|
| 碳钢 | 合金钢 | 预硬钢 | 硬化钢 | | 高硬钢 | 铜 | 石墨 | 铸铁 | 铝 | 不锈钢 | 钛 | 镍钨合金 |
| Carbon Steels | Alloy Steels | Prehardened Steels | Hardened Steels | | High Hardened Steels | Copper | Graphite | Cast Iron | Aluminum | Stainless Steels | Titanium | Inconel |
| ~HB235 | ~HB225-325 | ~HRc30-40 | HRc40-45 | HRc45-55 | HRc55-70 | ○ | | | ○ | | ○ | |

◎ 非常适合 ○ 适合

EMT15 SERIES

Unit:mm

| 优能特 订货代码 | 刀径 | 柄径 | 刃长 | 全长 | 刃数 |
|-------------|-------------|--------------|-----------------|-------------|--------|
| UNT EDP NO. | Mill Dia D1 | Shank Dia D2 | Flute length L1 | O. A. L. L2 | Flutes |
| EMT15030 | 3.0 | 4 | 8 | 50 | 3 |
| EMT15030075 | 3.0 | 6 | 10 | 75 | 3 |
| EMT150306 | 3.0 | 6 | 8 | 50 | 3 |
| EMT15040 | 4.0 | 4 | 11 | 50 | 3 |
| EMT15040100 | 4.0 | 6 | 12 | 100 | 3 |
| EMT150406 | 4.0 | 6 | 11 | 50 | 3 |
| EMT15050 | 5.0 | 6 | 13 | 50 | 3 |
| EMT15050100 | 5.0 | 6 | 16 | 100 | 3 |
| EMT15060 | 6.0 | 6 | 16 | 50 | 3 |
| EMT15060100 | 6.0 | 6 | 30 | 100 | 3 |
| EMT15080 | 8.0 | 6 | 20 | 60 | 3 |
| EMT15080100 | 8.0 | 6 | 35 | 100 | 3 |
| EMT15100 | 10.0 | 10 | 25 | 75 | 3 |
| EMT15100100 | 10.0 | 10 | 40 | 100 | 3 |
| EMT15120 | 12.0 | 12 | 30 | 75 | 3 |
| EMT15120100 | 12.0 | 12 | 45 | 100 | 3 |
| EMT15140 | 14.0 | 14 | 40 | 100 | 3 |
| EMT15160 | 16.0 | 16 | 40 | 100 | 3 |
| EMT15160150 | 16.0 | 16 | 60 | 150 | 3 |
| EMT15200 | 20.0 | 20 | 40 | 100 | 3 |

以上产品未列明细的非标规格尺寸或产品参数，可根据客户需求订制作。

Non-standard size or product parameters not listed above, can be customized according to customer needs.

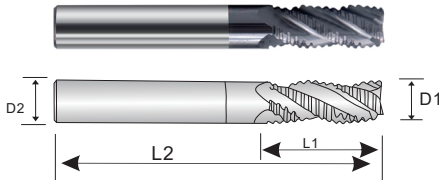
| MILL DIA. TOLERANCE (mm) 刀径公差 (mm) | | SHANK DIA. TOLERANCE 柄径公差 |
|------------------------------------|-------------|---------------------------|
| DIAMETER直径 | TOLERANCE公差 | |
| ~φ6以下 | -0.015-0 | H6 |
| φ6超过 | -0.020-0 | |

EMT通用型铝用金专用三刃粗皮铣刀

Carbide, 3 Flutes/3 Alu Power Rougher Tools

- ★ 适用于切削模具和模具的预硬钢，碳素钢，合金钢，硬度低于HRC45和机械零件。
- ★ 特殊的产品形状设计，可在加工过程中实现高进给率和重切削。
- ★ 坚韧的刃部设计，适用于插削铣和深腔铣。
- ★ 适合用于干磨和湿磨的加工环境。
- ★ 具有高速排屑的特性。

- Designed to Cutting Prehardened steel, carbon steel, alloy steels of molds and dies, up to HRC45 and machine parts.
- Special tool geometry for high feed rate and heavy cutting.
- Strong end tooth design for the plunge and pocket milling.
- For dry and wet milling.
- Fast chip ejection.



| 加工材料 Material Description | | | | | | | | | | | |
|---------------------------|--------------|--------------------|-------------------|----------------------|--------|----------|-----------|----------|------------------|----------|---------|
| 碳钢 | 合金钢 | 预硬钢 | 硬化钢 | 高硬钢 | 铜 | 石墨 | 铸铁 | 铝 | 不锈钢 | 钛 | 镍钴钛合金 |
| Carbon Steels | Alloy Steels | Prehardened Steels | Hardened Steels | High Hardened steels | Copper | Graphite | Cast Iron | Aluminum | Stainless Steels | Titanium | Inconel |
| ~HB225 | +HB225-325 | ~HRc30-40 | HRc40-45 HRc45-55 | HRc55-70 | | | | | | | |
| ○ | ○ | ○ | ○ | ○ | | | ○ | | ○ | ○ | |

◎ 非常合适 ○ 适合

EMT16 SERIES

Unit:mm

| 优能特 订货代码 | 刀径 | 柄径 | 刃长 | 全长 | 刃数 |
|-------------|-------------|--------------|-----------------|-------------|--------|
| UNT EDP NO. | Mill Dia D1 | Shank Dia D2 | Flute length L1 | O. A. L. L2 | Flutes |
| EMT16040 | 4.0 | 4 | 11 | 50 | 4F |
| EMT160406 | 4.0 | 6 | 11 | 50 | 4F |
| EMT16050 | 5.0 | 6 | 13 | 50 | 4F |
| EMT16060 | 6.0 | 6 | 16 | 50 | 4F |
| EMT16060100 | 6.0 | 6 | 30 | 100 | 4F |
| EMT16080 | 8.0 | 8 | 20 | 60 | 4F |
| EMT16080100 | 8.0 | 8 | 35 | 100 | 4F |
| EMT16100 | 10.0 | 10 | 25 | 75 | 4F |
| EMT16100100 | 10.0 | 10 | 40 | 100 | 4F |
| EMT16120 | 12.0 | 12 | 30 | 75 | 4F |
| EMT16120100 | 12.0 | 13 | 45 | 100 | 4F |
| EMT16160 | 16.0 | 16 | 40 | 100 | 4F |
| EMT16160150 | 16.0 | 16 | 60 | 150 | 4F |

以上产品未列明细的非标规格尺寸或产品参数，可根据客户需求订制作。
Non-standard size or product parameters not listed above, can be customized according to customer needs.

| MILL DIA. TOLERANCE (mm) 刀径公差 (mm) | | SHANK DIA. TOLERANCE 柄径公差 |
|------------------------------------|-------------|---------------------------|
| DIAMETER直径 | TOLERANCE公差 | |
| ~φ6以下 | -0.015~0 | H6 |
| φ6以上 | -0.020~0 | |

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