



# MILLING

## 铣削

产品概况

Product Overview

加工指南

Application Guide

铣削刀片&刀杆概况

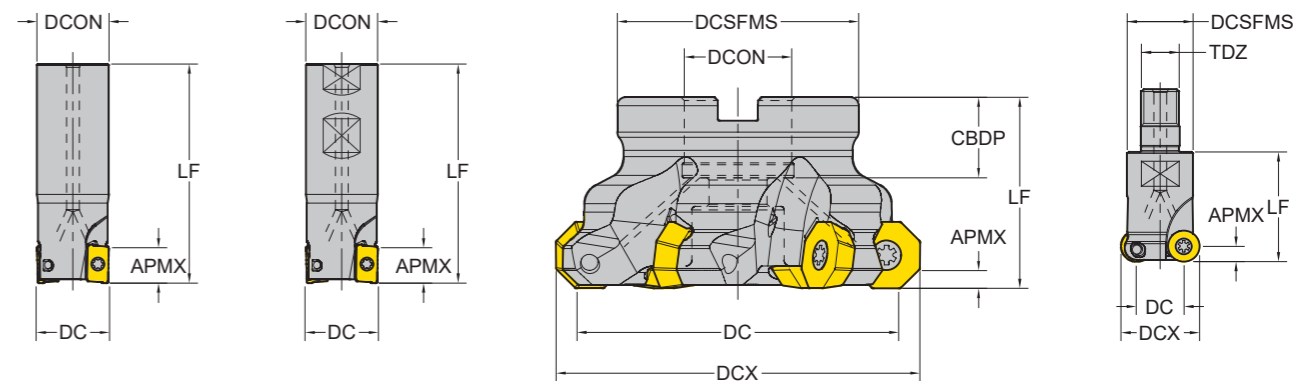
Milling Inserts & Cutter Overview

铣削刀片&刀杆

Milling Inserts & Cutter

### Code Keys - Milling Cutters

编码 - 铣削刀杆



<C> Cylindrical  
直柄

<W> Weldon  
侧固

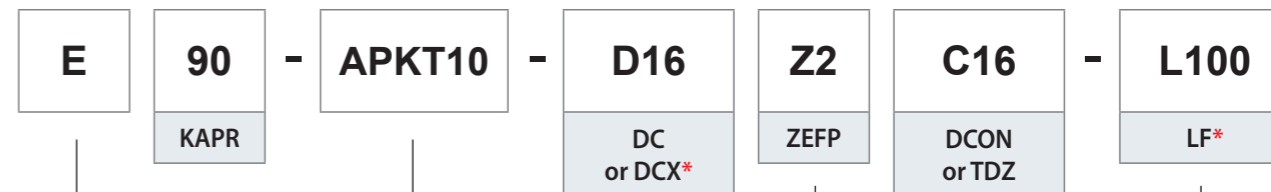
<S> Shell Mill  
刀盘

<M> Modular  
模块型

Cutting Angle  
切削角度  
(90°)

Cutter Diameter  
刀杆直径  
(Ø16)

Connection Type and Size 连接方式及尺寸  
C - Cylindrical 直柄 W - Weldon 侧固  
S - Shell Mill 刀盘 M - Modular 模块型  
(Cylindrical 直柄 Ø16)



Cutter Type 刀杆类型  
E - Endmill Type 立铣刀  
F - Facemill Type 面铣刀  
M - Modular Type 模块型

Insert Series  
刀片系列  
(APKT 10)

Number of Teeth  
刃数  
(Z=2)

Functional Length  
全长  
(100mm)

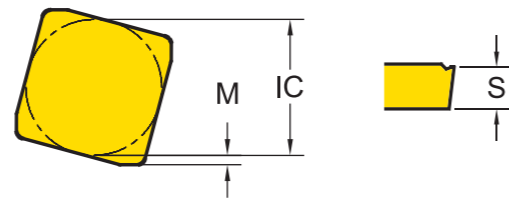
\* DCX for Round insert  
\* DCX为圆形刀片

\* Shank Type Only

|             |                             |                 |                                    |                     |                                 |                      |
|-------------|-----------------------------|-----------------|------------------------------------|---------------------|---------------------------------|----------------------|
| <b>1</b>    | <b>2</b>                    | <b>3</b>        | <b>4</b>                           | <b>5</b>            | <b>6</b>                        | <b>7</b>             |
| <b>A</b>    | <b>P</b>                    | <b>K</b>        | <b>T</b>                           | <b>16</b>           | <b>04</b>                       | <b>08</b>            |
| Shape<br>形状 | Relief Angle (AN)<br>后角(AN) | Tolerance<br>公差 | Clamping & Chipbreaker<br>夹紧 & 断屑槽 | Insert Size<br>刀片尺寸 | Insert Thickness (S)<br>刀片厚度(S) | Corner Radius<br>圆弧角 |

1 - Shape 形状

| Symbol 代码 | Shape 形状                   | Diagram |
|-----------|----------------------------|---------|
| <b>H</b>  | Hexagonal 正六边形             |         |
| <b>O</b>  | Octagonal 正八边形             |         |
| <b>P</b>  | Pentagonal 正五边形            |         |
| <b>S</b>  | Square 正方形                 |         |
| <b>T</b>  | Triangular 正三角形            |         |
| <b>V</b>  | Rhombic 35° 菱形顶角35°        |         |
| <b>W</b>  | Trigon 桃形                  |         |
| <b>L</b>  | Rectangular 长方形            |         |
| <b>A</b>  | Parallelogram 80° 平行四边形55° |         |
| <b>R</b>  | .Round 圆形                  |         |



3 - Tolerance Class 公差等级

| Symbol 代码 | Inner Circle 内接圆 IC (mm) | Nose Height 高度 M (mm) | Thickness 厚度 S (mm) |
|-----------|--------------------------|-----------------------|---------------------|
| <b>C</b>  | ± 0.025                  | ± 0.013               | ± 0.025             |
| <b>E</b>  | ± 0.025                  | ± 0.025               | ± 0.025             |
| <b>G</b>  | ± 0.025                  | ± 0.025               | ± 0.13              |
| <b>H</b>  | ± 0.013                  | ± 0.013               | ± 0.025             |
| <b>K*</b> | ± 0.05~0.15*             | ± 0.013               | ± 0.025             |
| <b>M*</b> | ± 0.05~0.15*             | ± 0.08~0.2*           | ± 0.13              |
| <b>U*</b> | ± 0.08~0.25*             | ± 0.13~0.38*          | ± 0.13              |

\* Tolerance is different by insert IC size. Please see ISO 1832  
\* 刀片IC尺寸不同公差不同, 详见ISO 1832

4 - Clamping & Chipbreaker 夹持 & 槽型

| Symbol 代码 | Clamping 夹紧         | Chipbreaker 槽型 | Figure 示意图 |
|-----------|---------------------|----------------|------------|
| <b>N</b>  | No clamping hole 无孔 | X              |            |
| <b>R</b>  |                     | One Face 单面    |            |
| <b>W</b>  | Screw Hole 螺纹孔      | X              |            |
| <b>T</b>  |                     | One Face 单面    |            |
| <b>U</b>  |                     | Both Faces 双面  |            |
| <b>X</b>  |                     | Special 订制     |            |

5 - Insert Size 刀片尺寸

\* No Standard for milling insert size  
\* 铣削刀片没有标准尺寸

6 - Insert Thickness 刀片厚度

\* No Standard for milling insert thickness  
\* 铣削刀片没有标准厚度

2 - Relief Angle (AN) 后角

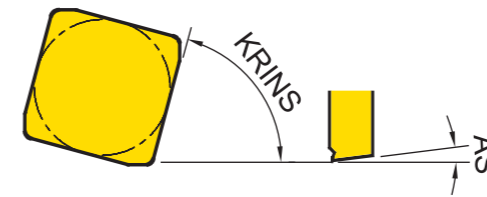
| Symbol 代码 | Relief Angle 后角 (AN) | Diagram |
|-----------|----------------------|---------|
| <b>N</b>  | No Relief Angle 无后角  |         |
| <b>B</b>  | Relief 5° 后角 5°      |         |
| <b>C</b>  | Relief 7° 后角 7°      |         |
| <b>P</b>  | Relief 11° 后角 11°    |         |
| <b>D</b>  | Relief 15° 后角 15°    |         |
| <b>E</b>  | Relief 20° 后角 20°    |         |
| <b>F</b>  | Relief 25° 后角 25°    |         |
| <b>O</b>  | Special 订制           |         |

|                         |              |
|-------------------------|--------------|
| page 99                 | page 98      |
| <b>8</b>                | <b>10</b>    |
| <b>PDTR</b>             | <b>YG602</b> |
| Corner Geometry<br>刀尖形状 | Grade<br>材质  |
| <b>9</b>                |              |
| <b>-TR</b>              |              |
| Chipbreaker<br>断屑槽      |              |

7 - Corner Radius (RE) 圆弧角

| Symbol 代码 | Thickness 厚度 - S (mm) | Symbol 代码 | Thickness 厚度 - S (mm) |
|-----------|-----------------------|-----------|-----------------------|
| <b>04</b> | 0.4                   | <b>16</b> | 1.6                   |
| <b>08</b> | 0.8                   | <b>20</b> | 2.0                   |
| <b>12</b> | 1.2                   | <b>24</b> | 2.4                   |

8 - Corner Geometry 刀尖形状



| 8-1                                       | 8-2                                     | 8-3                    | 8-4                    |
|---|---|------------------------|------------------------|
| <b>P</b>                                  | <b>D</b>                                | <b>T</b>               | <b>R</b>               |
| Cutting Edge Angle (KRINS)<br>主偏角 (KRINS) | Wiper Edge Clearance (AS)<br>修光刃后角 (AS) | Edge Condition<br>刃部处理 | Feed Direction<br>切削方向 |

\* Refer to page. 99 for -AL, -ST, -TR... types  
\* 参考99页-AL, -ST, -TR... 槽型

8-1 - Cutting Edge Angle (KRINS) 主偏角

| Symbol 代码 | Cutting Edge Angle 主偏角 (KRINS) |
|-----------|--------------------------------|
| <b>P</b>  | 90°                            |
| <b>A</b>  | 45°                            |
| <b>D</b>  | 60°                            |
| <b>E</b>  | 75°                            |
| <b>F</b>  | 85°                            |
| <b>Z</b>  | Special 订制                     |

8-2 - Wiper Edge Clearance (AS) 修光刃后角

| Symbol 代码 | Wiper Edge Clearance 修光刃后角 (AS) |
|-----------|---------------------------------|
| <b>N</b>  | 0°                              |
| <b>P</b>  | 11°                             |
| <b>D</b>  | 15°                             |
| <b>E</b>  | 20°                             |
| <b>F</b>  | 25°                             |
| <b>Z</b>  | Special 订制                      |

8-3 - Edge Condition 刃部处理

| Symbol 代码 | Edge Condition 刃部处理         | Diagram |
|-----------|-----------------------------|---------|
| <b>F</b>  | Sharp 锋利                    |         |
| <b>E</b>  | Rounded 圆角                  |         |
| <b>T</b>  | Chamfered 倒角                |         |
| <b>S</b>  | Chamfered and Rounded 倒角及圆角 |         |

8-4 - Feed Direction 切削方向

| Symbol 代码 | Feed Direction 切削方向    | Diagram |
|-----------|------------------------|---------|
| <b>R</b>  | Right-hand Insert 右手刀片 |         |
| <b>N</b>  | Neutral Insert 右, 左手刀片 |         |
| <b>L</b>  | Left-hand Insert 左手刀片  |         |

## Milling Grades and Chipbreakers

## 铣削材质及断屑槽

### Milling Grades 铣削材质

| Milling Grades<br>铣削 材质 | P Steel<br>钢 |     |     |     |     | M Stainless steel<br>不锈钢 |     |     |     | K Cast iron<br>铸铁 |      |     |     | N Non-ferrous<br>非铁金属 |     |     |     | S Superalloys<br>超耐热合金 |     |     |     |     |
|-------------------------|--------------|-----|-----|-----|-----|--------------------------|-----|-----|-----|-------------------|------|-----|-----|-----------------------|-----|-----|-----|------------------------|-----|-----|-----|-----|
|                         | P05          | P15 | P25 | P35 | P45 | M05                      | M15 | M25 | M35 | K05               | K15  | K25 | K35 | N05                   | N15 | N25 | N35 | S05                    | S15 | S25 | S35 |     |
| PVD                     | YG602        |     | 602 |     |     |                          |     | 602 |     |                   |      | 602 |     |                       |     |     |     |                        | 602 |     |     |     |
|                         | YG622        |     |     | 622 |     |                          |     |     |     |                   |      | 622 |     |                       |     |     |     |                        |     |     |     |     |
|                         | YG712        |     | 712 |     |     |                          |     |     |     |                   |      |     |     |                       |     |     |     |                        |     |     |     |     |
|                         | YG603        |     |     |     | 603 |                          |     |     | 603 |                   |      |     |     |                       |     |     |     |                        |     |     |     | 603 |
|                         | YG501        |     |     |     |     |                          |     |     |     |                   |      | 501 |     |                       |     |     |     |                        |     |     |     |     |
| CVD                     | YG5020       |     |     |     |     |                          |     |     |     |                   | 5020 |     |     |                       |     |     |     |                        |     |     |     |     |
| Uncoated                | YG50         |     |     |     |     |                          |     |     |     |                   |      |     |     | 50                    |     |     |     |                        |     |     |     |     |

|  |  |   |   |
|--|--|---|---|
| <b>YG602</b><br>P20 - P35 M20 - M40<br>K20 - K40 S15 - S25 |  | <b>Universal grade for General Milling Application</b><br>• Ultra Dense PVD Coating with optimal thermal resistance & strength<br>• Sub-Micron substrate designed for demanding application   | <b>通用型, 适用于普通铣削工况</b><br>• 超高密度PVD涂层具有出色的耐磨性<br>• 亚微米基层设计用于苛刻工况         |
| <b>YG622</b><br>P20 - P40<br>K20 - K40                     |  | <b>Optimized Grade for High Alloyed or Prehardened Steel</b><br>Excellent hot hardness and oxidation resistance at high speed   | <b>最佳材质为高合金或预硬钢</b><br>在告诉加工上卓越耐热性及耐酸化性                                 |
| <b>YG712</b><br>P10 - P30                                  |  | <b>General Milling Grade for Steel</b>  | <b>钢件普通铣削材质</b>   |
| <b>YG603</b><br>P30 - P50 M30 - M40<br>S30                 |  | <b>Tough Milling grade for Stainless Steel</b><br>• New coating layer with high toughness and lubrication on ultra fine grain substrate with high toughness.<br>• The toughest substrates provides excellent cutting performance in stainless steel | <b>适应于不锈钢粗铣</b><br>• 在具有高韧性的超细晶粒基底上具有高韧性和润滑的新涂层。<br>• 在有硬度的不锈钢加工方面有卓越表现 |
| <b>YG501</b><br>K05 - K25<br>H05 - H25                     |  | <b>Hard Milling grade for Cast Iron</b><br>• Substrate especially designed for high wear resistance<br>• Excellent wear resistance in cast iron milling application   | <b>适应于铸铁粗铣</b><br>• 特别的高耐磨性设计的基体<br>• 在铸铁铣削应用中具有优异的耐磨性+                 |
| <b>YG5020</b><br>K01-K30                                   |  | <b>CVD Milling grade for Cast Iron</b><br>• CVD coating for Excellent wear resistance<br>• Improved Toughness for chipping resistance   | <b>铸铁CVD涂层铣削</b><br>• CVD涂层具有优异的耐磨性<br>• 提高抗碎屑的韧性                       |
| <b>YG50</b><br>N05 - N20                                   |  | <b>Uncoated Milling Grade for Aluminium</b><br>• Submicron carbide substrate for high wear resistance<br>• Preventing built up edge with shining surface  | <b>铝的无涂层铣削等级</b><br>• 用于高耐磨性的亚微米碳化物基材<br>• 防止因表面光亮而形成的边缘                |

## Milling Grades and Chipbreakers

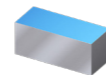
### Milling Chipbreakers 铣削断屑槽

|   |  |  |                          |
|---|--|--|--------------------------|
| <b>-AL</b>  |  | • For Aluminum<br>• Very Sharp Geometry                | • 铝加工<br>• 特别锋利形状        |
| <b>-ST</b>  |  | • For Stainless Steel, Super Alloy<br>• Sharp Geometry | • 不锈钢, 超耐热合金加工<br>• 锋利形状 |
| <b>General Inserts</b><br>(No Description)<br>普通型 (无断屑槽名) |  | • First Choice for General Application                 | • 普通工况的首选                |
| <b>-TR</b>  |  | • For Hardened Steels<br>• Reinforced Geometry         | • 高硬度钢件加工<br>• 增强型形状     |
| <b>...W / ...N</b>  |  | • For Hardened Material and Cast Irons                 | • 高硬度钢件及铸铁加工             |

**Milling Overview**

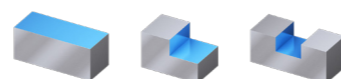
铣削概况

**Face Milling 面铣削**



| Negative Octagonal 负角型 八角形 |         | Negative Square 负角型 正方形 |     |
|----------------------------|---------|-------------------------|-----|
| <b>Cutter</b>              |         |                         |     |
| <b>APMX</b>                | 5.5     | 6                       |     |
| <b>DC</b>                  | Ø63~315 | Ø50~200                 |     |
| <b>page</b>                | p. 103  | p. 104                  |     |
| Positive Octagonal 正角型 八角形 |         | Positive Square 正角型 正方形 |     |
| <b>Cutter</b>              |         |                         |     |
| <b>APMX</b>                | 3.5     | 5                       |     |
| <b>DC</b>                  | Ø63~125 | Ø63~160                 |     |
| <b>page</b>                | p. 105  | p. 105                  |     |
| Positive Square 正角型 正方形    |         |                         | ISO |
| <b>Cutter</b>              |         |                         |     |
| <b>APMX</b>                | 6       | 8                       |     |
| <b>DC</b>                  | Ø40~160 | Ø50~200                 |     |
| <b>page</b>                | p. 106  | p. 107                  |     |

**Shoulder Milling 方肩铣削**

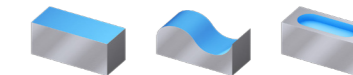


| 2 Corner Positive 2刀尖 正角型 |           |
|---------------------------|-----------|
| <b>Cutter</b>             |           |
| <b>APMX</b>               | 10        |
| <b>DC</b>                 | Ø16~100   |
| <b>page</b>               | p.120-121 |
| <b>ISO</b>                |           |
| <b>Cutter</b>             |           |
| <b>APMX</b>               | 12        |
| <b>DC</b>                 | Ø50~125   |
| <b>page</b>               | p. 124    |

**Milling Overview**

铣削概况

**Profiling 仿形铣削**



| Round Positive 圆形 正角型 |         |
|-----------------------|---------|
| <b>Cutter</b>         |         |
| <b>APMX</b>           | 0802    |
| <b>DCX</b>            | 4       |
| <b>page</b>           | p. 131  |
|                       | 10T3    |
|                       | 5       |
|                       | Ø20~63  |
|                       | p. 131  |
|                       | 1204    |
|                       | 6       |
|                       | Ø25~100 |
|                       | p. 132  |

**High Feed Milling 高进给铣削**



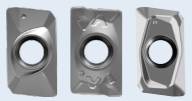






| Negative 4 Corner 负角型 4刀尖 |        | Positive 4 Corner 正角型 4刀尖 |         |
|---------------------------|--------|---------------------------|---------|
| <b>Cutter</b>             |        |                           |         |
| <b>APMX</b>               | 0.9    | 1.8                       |         |
| <b>DCX</b>                | Ø16~18 | Ø20~50                    | Ø32~100 |
| <b>page</b>               | p. 137 | p. 138                    |         |

**Modular Shank 模块型**

| Modular Shank for Modular Head 模块柄为模块头 |        |
|--|--------|
| <b>Cutter</b>                          |        |
| <b>page</b>                            | p. 141 |

Milling Inserts Overview

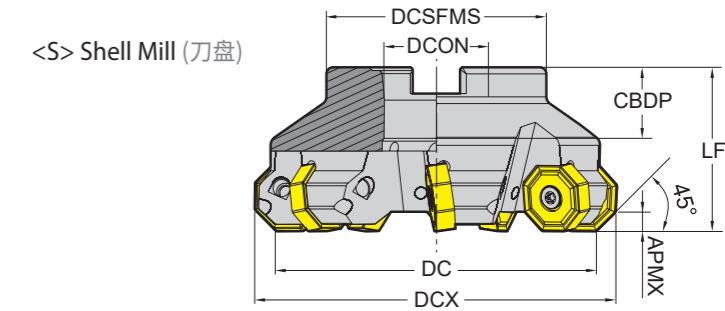
铣削刀片概况

|  |   |                         |  |        |
|--|---|-------------------------|--|--------|
| <b>A</b><br>2 Corner<br>2刀尖<br>Positive<br>正角型   |    | ADKT                    | ADKT 1505  | p. 125 |
|  |   | AOMT                    | AOMT 1236  | p. 125 |
|  |   | APKT                    | APKT 1003, 1604  | p. 126 |
|  |   | APMT                    | APMT 1135, 1504, 1604                                      | p. 127 |
|  |   | APXT                    | APXT 1604  | p. 128 |
| <b>E</b><br>4 Corner<br>4刀尖<br>Negative<br>负角型   |    | ENMX                    | ENMX, ENMX-TR  | P. 139 |
| <b>O</b><br>Octagon<br>八角形<br>Positive<br>正角型  |    | ODMT / ODMW             | ODMT / ODMW 0605   | p. 108 |
|  |   | OFER                    | OFER 0704  | p. 109 |
|  |   | OFMT                    | OFMT 05T3  |        |
| <br>Negative<br>负角型 | ONMU / ONHU   | ONMU / ONHU 0806        | p. 110   |        |
| <b>R</b><br>Round<br>圆形<br>Positive Round<br>正角型 圆形<br>Positive 3 Corner<br>正角型 3刀尖                  |   | RDKT / RDKW             | RDKT 0802, 10T3, 1204<br>RDKW 0501, 0702, 0802, 10T3, 1204 | p. 133 |
|  |   | RDMT / RDMW             | RDMT 0802, 0803, 10T3, 1204<br>RDMW 0802, 10T3, 1204       | p. 134 |
|  |   | RPMT / RPMW             | RPMT 08T2, 10T3, 1204<br>RPMW 1003, 1204                   | p. 135 |
|  |   | RBEX50                  | RBEX50   | p. 136 |
|  |   | SDMT / SDMW             | SDMT 1204, SDMW 1204                                       | p. 140 |
| <b>S</b><br>Square<br>正方形<br>Positive<br>正角型<br>ISO<br>Negative<br>负角型                               |  | SEKT                    | SEKT 12T3, 1204  | p. 113 |
|  |   | SEGT                    | SEGT12T3, 1204   | p. 114 |
|  |   | SEMT                    | SEMT1204, 13T3   | p. 115 |
|  |   | SPMT                    | SPMT 1204  | p. 118 |
|  |   | SDKN, SDCN (45°)        | SDKN, SDCN 1203, 1504                                      | p. 111 |
|  |   | SEKN / SEKR (45°)       | SEKR, SEKN 1203  | p. 112 |
|  |   | SPKN / SPKR / SPCN(75°) | SPKN 1203, 1504<br>SPKR 1203<br>SPCN 1203, 1504            | p. 117 |
|  |   | SPUN                    | SPUN 1203  | p. 119 |
|  |   | SNMX                    | SNMX1206   | p. 116 |
| <b>T</b><br>Triangle<br>三角形<br>ISO   |  | TPKN / TPKR / TPCN(90°) | TPKN 1603, 2204<br>TPKR 1603, 2204<br>TPCN 2204            | p. 129 |
|  |   | TPUN                    | TPUN 160308  | p. 130 |

Milling - Face Milling - Cutter  
Cutters for ONMU

铣削 - 面铣削 - 刀杆  
刀杆为ONMU

Cutting Angle(切削角) : 45°  
16 Corner Negative (刀尖 负角型)



ZEFP : Effective Number of Cutting Edges ZEFP: 有效刃数  
CICT : Number of Inserts CICT: 刀片数  
CBDP : Connection Bore Depth CBDP: 刀柄连接孔深度

□: p. 110 Unit(单位):mm

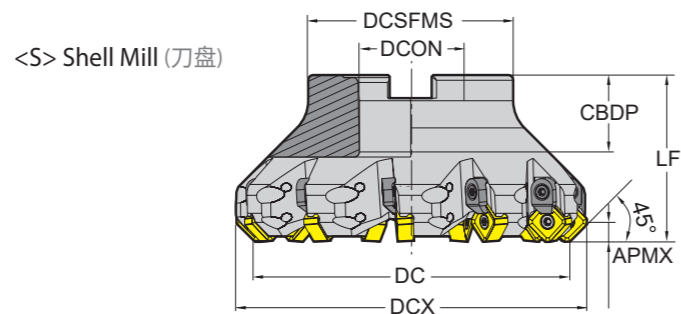
| Series                          | APMX | Designation                     | EDP 1700.. | DC  | DCX | ZEFP | LF | TYPE      | DCON  | CBDP  | DCSFMS | PCD1  | PCD2 | ⚡ |
|---------------------------------|------|---------------------------------|------------|-----|-----|------|----|-----------|-------|-------|--------|-------|------|---|
| ONMU 0806                       | 5.5  | F45 - ONMU08 - D63Z5S22         | 0493       | 63  | 75  | 5    | 40 | Shellmill | 22    | 22    | 49     | -     | -    | ● |
|                                 |      | F45 - ONMU08 - D80Z6S27         | 0494       | 80  | 92  | 6    | 50 |           | 27    | 25    | 58     | -     | -    | ● |
|                                 |      | F45 - ONMU08 - D100Z7S32        | 0495       | 100 | 112 | 7    | 50 |           | 32    | 26    | 67     | -     | -    | ● |
|                                 |      | F45 - ONMU08 - D125Z8S40 - WOC  | 0496       | 125 | 137 | 8    | 63 |           | 40    | 32    | 87     | -     | -    | X |
|                                 |      | F45 - ONMU08 - D160Z10S40 - WOC | 0497       | 160 | 172 | 10   | 63 |           | 40    | 32    | 107    | 66.7  | -    | X |
|                                 |      | F45 - ONMU08 - D200Z12S60 - WOC | 0498       | 200 | 212 | 12   | 63 |           | 60    | 40    | 130    | 101.6 | -    | X |
| F45 - ONMU08 - D315Z16S60 - WOC | 0499 | 315                             | 327        | 16  | 63  | 60   | 40 | 220       | 101.6 | 177.8 | X      |       |      |   |

▶ ONHU is Available for Wiper Insert  
▶ 可提供修光刃刀片 ONHU

Milling - Face Milling - Cutter  
**Cutters for SNMX**

铣削 - 面铣削 - 刀杆  
刀杆为SNMX

Cutting Angle(切削角) : 45°  
8 Corner Negative (刀尖 负角型)



ZEFP : Effective Number of Cutting Edges ZEFP: 有效刃数  
CICT : Number of Inserts CICT: 刀片数  
CBDP : Connection Bore Depth CBDP: 刀柄连接孔深度

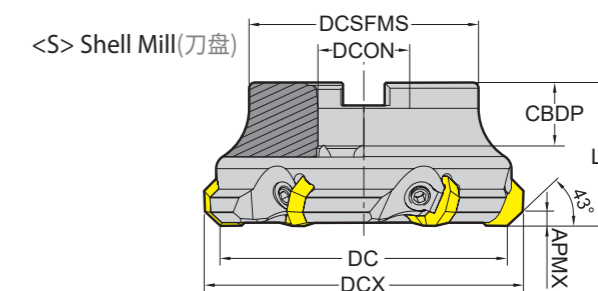
□: p. 116 Unit(单位):mm

| Series                          | APMX | Designation                     | EDP 1700.. | DC  | DCX | ZEFP | LF | TYPE      | DCON  | CBDP | DCSFMS | PCD1 | PCD2 | 🔴 |
|---------------------------------|------|---------------------------------|------------|-----|-----|------|----|-----------|-------|------|--------|------|------|---|
| SNMX 1206                       | 6.0  | F45 - SNMX12 - D50Z4S22         | 0506       | 50  | 63  | 4    | 42 | Shellmill | 22    | 22   | 42     | -    | -    | ● |
|                                 |      | F45 - SNMX12 - D50Z5S22         | 0507       | 50  | 63  | 5    | 42 |           | 22    | 22   | 42     | -    | -    | ● |
|                                 |      | F45 - SNMX12 - D63Z6S22         | 0508       | 63  | 76  | 6    | 42 |           | 22    | 22   | 48     | -    | -    | ● |
|                                 |      | F45 - SNMX12 - D63Z7S22         | 0509       | 63  | 76  | 7    | 42 |           | 22    | 22   | 48     | -    | -    | ● |
|                                 |      | F45 - SNMX12 - D80Z7S27         | 0510       | 80  | 93  | 7    | 52 |           | 27    | 25   | 58     | -    | -    | ● |
|                                 |      | F45 - SNMX12 - D80Z8S27         | 0511       | 80  | 93  | 8    | 52 |           | 27    | 25   | 58     | -    | -    | ● |
|                                 |      | F45 - SNMX12 - D100Z10S32       | 0512       | 100 | 113 | 10   | 52 |           | 32    | 26   | 67     | -    | -    | ● |
|                                 |      | F45 - SNMX12 - D100Z8S32        | 0513       | 100 | 113 | 8    | 52 |           | 32    | 26   | 67     | -    | -    | ● |
|                                 |      | F45 - SNMX12 - D125Z11S40 - WOC | 0514       | 125 | 138 | 11   | 65 |           | 40    | 32   | 80     | -    | -    | X |
|                                 |      | F45 - SNMX12 - D160Z12S40 - WOC | 0515       | 160 | 173 | 12   | 65 |           | 40    | 32   | 110    | 66.7 | -    | X |
| F45 - SNMX12 - D200Z14S60 - WOC | 0516 | 200                             | 213        | 14  | 65  | 60   | 40 | 130       | 101.6 | -    | X      |      |      |   |

Milling - Face Milling - Cutter  
**Cutters for OFER**

铣削 - 面铣削 - 刀杆  
刀杆为OFER

Cutting Angle(切削角) : 43°  
8 Corner Positive(刀尖 正角型)



ZEFP : Effective Number of Cutting Edges ZEFP: 有效刃数  
CICT : Number of Inserts CICT: 刀片数  
CBDP : Connection Bore Depth CBDP: 刀柄连接孔深度

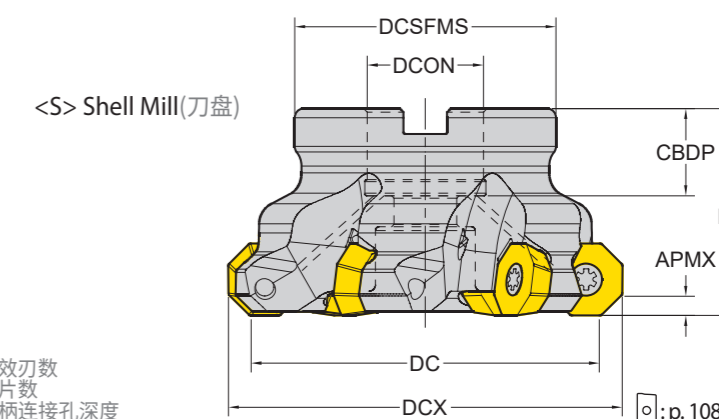
□: p. 109 Unit(单位):mm

| Series    | APMX | Designation                    | EDP 1700.. | DC  | DCX | ZEFP | LF | TYPE      | DCON | CBDP | DCSFMS | PCD1 | PCD2 | 🔴 |
|-----------|------|--------------------------------|------------|-----|-----|------|----|-----------|------|------|--------|------|------|---|
| OFER 0704 | 5.0  | F43 - OFER07 - D63Z4S22 - WOC  | 0484       | 63  | 75  | 4    | 45 | Shellmill | 22   | 22   | 48     | -    | -    | X |
|           |      | F43 - OFER07 - D80Z5S27 - WOC  | 0485       | 80  | 92  | 5    | 50 |           | 27   | 25   | 58     | -    | -    | X |
|           |      | F43 - OFER07 - D100Z6S32 - WOC | 0486       | 100 | 112 | 6    | 50 |           | 32   | 26   | 80     | -    | -    | X |
|           |      | F43 - OFER07 - D125Z8S40 - WOC | 0487       | 125 | 137 | 8    | 63 |           | 40   | 32   | 85     | -    | -    | X |
|           |      | F43 - OFER07 - D160Z9S40 - WOC | 0488       | 160 | 172 | 9    | 63 |           | 40   | 32   | 110    | 66.7 | -    | X |

Milling - Face Milling - Cutter  
**Cutters for ODMT, ODMW**

铣削 - 面铣削 - 刀杆  
刀杆为ODMT, ODMW

Cutting Angle(切削角) : 43°  
8 Corner Positive(刀尖 正角型)



ZEFP : Effective Number of Cutting Edges ZEFP: 有效刃数  
CICT : Number of Inserts CICT: 刀片数  
CBDP : Connection Bore Depth CBDP: 刀柄连接孔深度

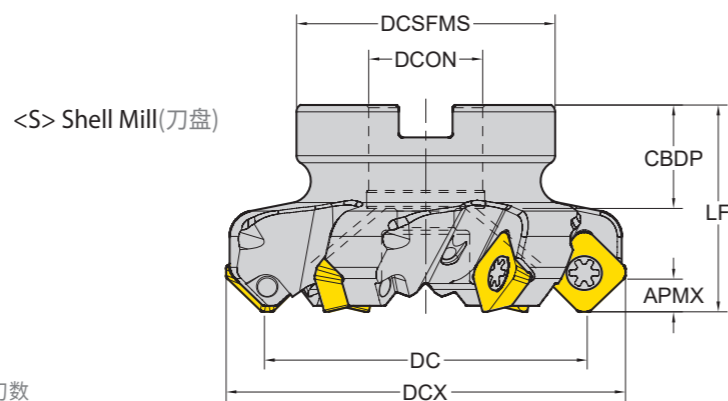
□: p. 108 Unit(单位):mm

| Series         | APMX | Designation              | EDP 1700.. | DC  | DCX | ZEFP | LF | TYPE      | DCON | CBDP | DCSFMS | PCD1 | PCD2 | 🔴 |
|----------------|------|--------------------------|------------|-----|-----|------|----|-----------|------|------|--------|------|------|---|
| ODMT ODMW 0605 | 3.5  | F43 - ODMT06 - D63Z5S22  | 0001       | 63  | 73  | 5    | 40 | Shellmill | 22   | 20   | 50     | -    | -    | ● |
|                |      | F43 - ODMT06 - D80Z6S27  | 0002       | 80  | 90  | 6    | 50 |           | 27   | 23   | 56     | -    | -    | ● |
|                |      | F43 - ODMT06 - D100Z7S32 | 0003       | 100 | 110 | 7    | 50 |           | 32   | 26   | 78     | -    | -    | ● |
|                |      | F43 - ODMT06 - D125Z8S40 | 0004       | 125 | 135 | 8    | 63 |           | 40   | 28   | 89     | -    | -    | ● |

### Milling - Face Milling - Cutter Cutters for SEKT, SEGT

铣削 - 面铣削 - 刀杆  
刀杆为SEKT, SEGT

Cutting Angle(切削角) : 45°  
4 Corner Positive(刀尖 正角型)



ZEFP : Effective Number of Cutting Edges ZEFP : 有效刃数  
CICT : Number of Inserts CICT : 刀片数  
CBDP : Connection Bore Depth CBDP : 刀柄连接孔深度

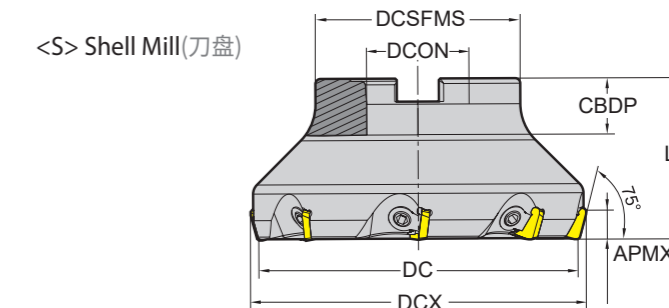
□: p. 113/114 Unit(单位):mm

| Series               | APMX | Designation                     | EDP 1700.. | DC  | DCX | ZEFP | LF | TYPE      | DCON | CBDP | DCSFMS | PCD1 | PCD2 | ☉ |
|----------------------|------|---------------------------------|------------|-----|-----|------|----|-----------|------|------|--------|------|------|---|
| SEKT<br>SEGT<br>12T3 | 6.0  | F45 - SE12T3 - D50Z4S22         | 0500       | 50  | 63  | 4    | 40 | Shellmill | 22   | 22   | 48     | -    | -    | ● |
|                      |      | F45 - SE12T3 - D63Z5S22         | 0501       | 63  | 76  | 5    | 40 |           | 22   | 22   | 48     | -    | -    | ● |
|                      |      | F45 - SE12T3 - D80Z6S27         | 0502       | 80  | 93  | 6    | 50 |           | 27   | 25   | 58     | -    | -    | ● |
|                      |      | F45 - SE12T3 - D100Z7S32        | 0503       | 100 | 113 | 7    | 50 |           | 32   | 26   | 65     | -    | -    | ● |
|                      |      | F45 - SE12T3 - D125Z8S40 - WOC  | 0504       | 125 | 138 | 8    | 63 |           | 40   | 32   | 85     | -    | -    | X |
|                      |      | F45 - SE12T3 - D160Z10S40 - WOC | 0505       | 160 | 173 | 10   | 63 |           | 40   | 32   | 110    | 66.7 | -    | X |
| SEKT<br>SEGT<br>1204 | 6.0  | F45 - SEKT12 - D40Z4S16         | 0031       | 40  | 54  | 4    | 40 | Shellmill | 16   | 18   | 32     | -    | -    | ● |
|                      |      | F45 - SEKT12 - D50Z5S22         | 0032       | 50  | 64  | 5    | 40 |           | 22   | 20   | 48     | -    | -    | ● |
|                      |      | F45 - SEKT12 - D63Z4S22         | 0033       | 63  | 77  | 4    | 40 |           | 22   | 20   | 50     | -    | -    | ● |
|                      |      | F45 - SEKT12 - D63Z6S22         | 0034       | 63  | 77  | 6    | 40 |           | 22   | 20   | 50     | -    | -    | ● |
|                      |      | F45 - SEKT12 - D80Z4S27         | 0035       | 80  | 94  | 4    | 50 |           | 27   | 22   | 56     | -    | -    | ● |
|                      |      | F45 - SEKT12 - D80Z7S27         | 0036       | 80  | 94  | 7    | 50 |           | 27   | 22   | 56     | -    | -    | ● |
|                      |      | F45 - SEKT12 - D100Z8S32        | 0037       | 100 | 114 | 8    | 50 |           | 32   | 25   | 78     | -    | -    | ● |
|                      |      | F45 - SEKT12 - D125Z10S40       | 0038       | 125 | 139 | 10   | 63 |           | 40   | 29   | 90     | -    | -    | ● |
|                      |      | F45 - SEKT12 - D160Z12S40       | 0039       | 160 | 174 | 12   | 63 |           | 40   | 30   | 114    | -    | -    | X |

### Milling - Face Milling - Cutter Cutters for SPKN, SPKR, SPCN

铣削 - 面铣削 - 刀杆  
刀杆为SPKN, SPKR, SPCN

Cutting Angle(切削角) : 75°  
4 Corner Positive(刀尖 正角型) ISO



ZEFP : Effective Number of Cutting Edges ZEFP : 有效刃数  
CICT : Number of Inserts CICT : 刀片数  
CBDP : Connection Bore Depth CBDP : 刀柄连接孔深度

□: p. 117 Unit(单位):mm

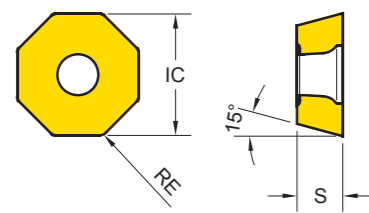
| Series                       | APMX | Designation                     | EDP 1700.. | DC  | DCX | ZEFP | LF | TYPE      | DCON | CBDP | DCSFMS | PCD1  | PCD2 | ☉ |
|------------------------------|------|---------------------------------|------------|-----|-----|------|----|-----------|------|------|--------|-------|------|---|
| SPKN<br>SPKR<br>SPCN<br>1203 | 8.0  | F75 - SPKN12 - D50Z4S22 - WOC   | 0611       | 50  | 56  | 4    | 40 | Shellmill | 22   | 22   | 42     | -     | -    | X |
|                              |      | F75 - SPKN12 - D63Z5S22 - WOC   | 0612       | 63  | 69  | 5    | 40 |           | 22   | 22   | 48     | -     | -    | X |
|                              |      | F75 - SPKN12 - D80Z6S27 - WOC   | 0613       | 80  | 86  | 6    | 50 |           | 27   | 25   | 58     | -     | -    | X |
|                              |      | F75 - SPKN12 - D100Z7S32 - WOC  | 0614       | 100 | 106 | 7    | 50 |           | 32   | 26   | 65     | -     | -    | X |
|                              |      | F75 - SPKN12 - D125Z8S40 - WOC  | 0615       | 125 | 131 | 8    | 63 |           | 40   | 32   | 80     | -     | -    | X |
|                              |      | F75 - SPKN12 - D160Z9S40 - WOC  | 0616       | 160 | 166 | 9    | 63 |           | 40   | 32   | 110    | 66.7  | -    | X |
|                              |      | F75 - SPKN12 - D200Z12S60 - WOC | 0617       | 200 | 206 | 12   | 63 |           | 60   | 40   | 130    | 101.6 | -    | X |

Milling - Face Milling - Inserts

铣削 - 面铣削 - 刀杆

**ODMT, ODMW** - Face Milling Positive (8 Corners)

**ODMT, ODMW** - 面铣削 正角型 (8刀尖)



| Series    | IC   | S   |
|-----------|------|-----|
| ODM* 0605 | 15.9 | 5.6 |

EDP 1200..

| P25 | P30 | P20 | P40 |     |     |
|-----|-----|-----|-----|-----|-----|
| M30 |     |     | M35 |     |     |
| K30 | K30 |     | S30 | H15 | K15 |
| S20 |     |     |     |     |     |

●: Stock item 常备库存  
○: Order made item 按订单生产

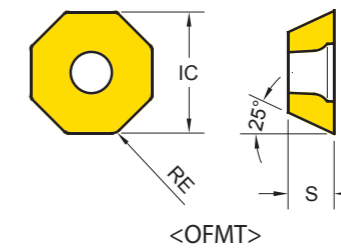
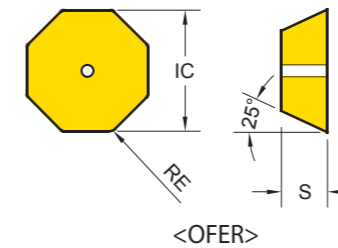
| ODMT<br>ODMW           | Designation | RE<br>(mm) | Fz<br>(mm/tooth) | BS<br>(mm) | EDP 1200.. |       |       |       |       |        |
|------------------------|-------------|------------|------------------|------------|------------|-------|-------|-------|-------|--------|
|                        |             |            |                  |            | YG602      | YG622 | YG712 | YG603 | YG501 | YG5020 |
| ODMT<br>General<br>通用型 | ODMT 060508 | 0.8        | 0.21 ~ 0.35      |            | ● 0030     |       |       |       |       |        |
|                        | ODMW 060508 | 0.8        | 0.26 ~ 0.40      |            | ● 0031     |       |       |       |       |        |

Milling - Face Milling - Inserts

铣削 - 面铣削 - 刀杆

**OFER, OFMT** - Face Milling Positive (8 Corners)

**OFER, OFMT** - 面铣削 正角型 (8刀尖)



| Series    | IC    | S    |
|-----------|-------|------|
| OFER 0704 | 18.05 | 4.78 |
| OFMT 05T3 | 12.73 | 4.06 |

EDP 1200..

| P25 | P30 | P20 | P40 |     |     |
|-----|-----|-----|-----|-----|-----|
| M30 |     |     | M35 |     |     |
| K30 | K30 |     | S30 | H15 | K15 |
| S20 |     |     |     |     |     |

●: Stock item 常备库存  
○: Order made item 按订单生产

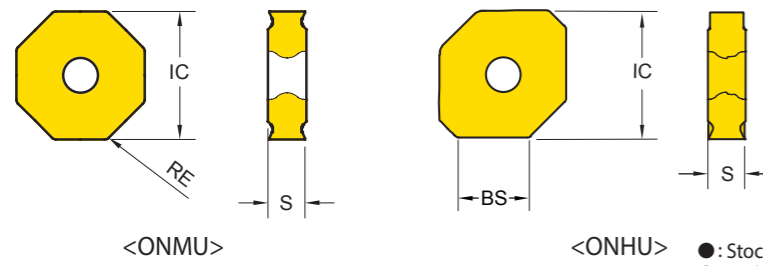
| OFER<br>OFMT           | Designation | RE<br>(mm) | Fz<br>(mm/tooth) | BS<br>(mm) | EDP 1200.. |       |       |       |       |        |
|------------------------|-------------|------------|------------------|------------|------------|-------|-------|-------|-------|--------|
|                        |             |            |                  |            | YG602      | YG622 | YG712 | YG603 | YG501 | YG5020 |
| OFER<br>General<br>通用型 | OFER 070405 | 0.5        | 0.22 ~ 0.50      |            | ● 0209     |       |       |       |       |        |
|                        | OFMT 05T308 | 0.8        | 0.15 ~ 0.25      |            | ● 0032     |       |       |       |       |        |

| Cutting Speed 切削速度 |       |                                   | Vc (m/min.) |     |       |     |       |     |       |     |       |     |        |     |
|--------------------|-------|-----------------------------------|-------------|-----|-------|-----|-------|-----|-------|-----|-------|-----|--------|-----|
| ISO                | VDI   | Sub Group 分组                      | YG602       |     | YG622 |     | YG712 |     | YG603 |     | YG501 |     | YG5020 |     |
|                    |       |                                   | Min         | Max | Min   | Max | Min   | Max | Min   | Max | Min   | Max | Min    | Max |
| P                  | 1~5   | Non-Alloyed Steel 非合金钢            | 140         | 380 | 140   | 400 | 170   | 300 | 90    | 230 | -     | -   | -      | -   |
|                    | 6~9   | Low-Alloyed Steel 低合金钢            | 120         | 300 | 120   | 320 | 180   | 250 | 70    | 210 | -     | -   | -      | -   |
|                    | 10~11 | High-Alloyed Steel 高合金钢           | 70          | 150 | 70    | 170 | 100   | 140 | 60    | 100 | -     | -   | -      | -   |
| M                  | 12~13 | Ferritic & Martensitic 铁素体&马氏体不锈钢 | 120         | 200 | -     | -   | -     | -   | 80    | 180 | -     | -   | -      | -   |
|                    | 14    | Austenitic Stainless Steel 奥氏体不锈钢 | 130         | 250 | -     | -   | -     | -   | 100   | 200 | -     | -   | -      | -   |
| K                  | 15~16 | Grey Cast Iron 灰铸铁                | 120         | 250 | 120   | 270 | -     | -   | -     | -   | 180   | 350 | 200    | 350 |
|                    | 17~18 | Nodular Cast Iron 球墨铸铁            | 130         | 220 | 130   | 240 | -     | -   | -     | -   | 120   | 270 | 150    | 300 |
| N                  | 21~30 | Non-Ferrous Metals (Al) 非铁金属      | -           | -   | -     | -   | -     | -   | -     | -   | -     | -   | -      | -   |
| S                  | 31~37 | Superalloys & Titanium 超耐热合金&钛合金  | 25          | 45  | -     | -   | -     | -   | 20    | 40  | -     | -   | -      | -   |
| H                  | 38~41 | Hard Materials 高硬度材料              | 40          | 80  | 40    | 100 | -     | -   | -     | -   | 50    | 90  | -      | -   |

| Cutting Speed 切削速度 |       |                                   | Vc (m/min.) |     |       |     |       |     |       |     |       |     |        |     |
|--------------------|-------|-----------------------------------|-------------|-----|-------|-----|-------|-----|-------|-----|-------|-----|--------|-----|
| ISO                | VDI   | Sub Group 分组                      | YG602       |     | YG622 |     | YG712 |     | YG603 |     | YG501 |     | YG5020 |     |
|                    |       |                                   | Min         | Max | Min   | Max | Min   | Max | Min   | Max | Min   | Max | Min    | Max |
| P                  | 1~5   | Non-Alloyed Steel 非合金钢            | 140         | 380 | 140   | 400 | 170   | 300 | 90    | 230 | -     | -   | -      | -   |
|                    | 6~9   | Low-Alloyed Steel 低合金钢            | 120         | 300 | 120   | 320 | 180   | 250 | 70    | 210 | -     | -   | -      | -   |
|                    | 10~11 | High-Alloyed Steel 高合金钢           | 70          | 150 | 70    | 170 | 100   | 140 | 60    | 100 | -     | -   | -      | -   |
| M                  | 12~13 | Ferritic & Martensitic 铁素体&马氏体不锈钢 | 120         | 200 | -     | -   | -     | -   | 80    | 180 | -     | -   | -      | -   |
|                    | 14    | Austenitic Stainless Steel 奥氏体不锈钢 | 130         | 250 | -     | -   | -     | -   | 100   | 200 | -     | -   | -      | -   |
| K                  | 15~16 | Grey Cast Iron 灰铸铁                | 120         | 250 | 120   | 270 | -     | -   | -     | -   | 180   | 350 | 200    | 350 |
|                    | 17~18 | Nodular Cast Iron 球墨铸铁            | 130         | 220 | 130   | 240 | -     | -   | -     | -   | 120   | 270 | 150    | 300 |
| N                  | 21~30 | Non-Ferrous Metals (Al) 非铁金属      | -           | -   | -     | -   | -     | -   | -     | -   | -     | -   | -      | -   |
| S                  | 31~37 | Superalloys & Titanium 超耐热合金&钛合金  | 25          | 45  | -     | -   | -     | -   | 20    | 40  | -     | -   | -      | -   |
| H                  | 38~41 | Hard Materials 高硬度材料              | 40          | 80  | 40    | 100 | -     | -   | -     | -   | 50    | 90  | -      | -   |



**ONMU / ONHU** - Face Milling Negative (16 Corners) **ONMU/ONHU** - 面铣削 负角型 (16刀尖)



| Series    | IC   | S   |
|-----------|------|-----|
| ON*U 0806 | 20.2 | 5.8 |

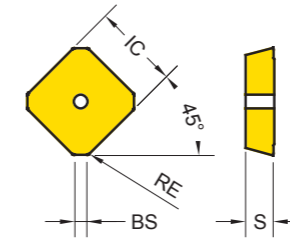
EDP 1200..

| P25 | P30 | P20 | P40 |
|-----|-----|-----|-----|
| M30 |     |     | M35 |
| K30 | K30 |     | K15 |
| S20 |     | S30 | H15 |

●: Stock item 常备库存  
○: Order made item 按订单生产

| ONMU<br>ONHU           | Designation | RE (mm) | Fz (mm/tooth) | BS (mm) | YG602  | YG622 | YG712 | YG603 | YG501 | YG5020 |
|------------------------|-------------|---------|---------------|---------|--------|-------|-------|-------|-------|--------|
| ONMU<br>General<br>通用型 | ONMU 080608 | 0.8     | 0.22~0.50     |         | ● 0233 |       |       |       |       | ● 0414 |
|                        | ONHU 080612 |         | 0.08~0.25     | 10.6    |        |       |       |       |       | ● 0482 |

**SDKN / CN** - Face Milling Positive (4 Corners ISO) **SDKN/CN** - 面铣削 正角型 (4刀尖ISO)



| Series    | AS  | IC    | S    |
|-----------|-----|-------|------|
| SD** 1203 | 15° | 12.7  | 3.18 |
| SD** 1504 | 15° | 15.88 | 4.76 |

EDP 1200..

| P25 | P30 | P20 | P40 |
|-----|-----|-----|-----|
| M30 |     |     | M35 |
| K30 | K30 |     | K15 |
| S20 |     | S30 | H15 |

●: Stock item 常备库存  
○: Order made item 按订单生产

| SDKN<br>SDCN                       | Designation         | RE (mm) | Fz (mm/tooth) | BS (mm) | YG602  | YG622 | YG712  | YG603 | YG501 | YG5020 |
|------------------------------------|---------------------|---------|---------------|---------|--------|-------|--------|-------|-------|--------|
| SDKN<br>Hard<br>Materials<br>高硬度材料 | SDKN 1203 AETN      | 0.5     | 0.22~0.35     | 1.85    | ● 0058 |       |        |       |       |        |
|                                    | SDKN 1203 AETN - PW | 0.4     | 0.22~0.35     | 1.98    | ● 0253 |       |        |       |       |        |
|                                    | SDKN 1203 AETN - GW | 1.3     | 0.22~0.35     | 1.85    | ● 0251 |       |        |       |       |        |
|                                    | SDKN 1504 AETN      | 0.45    | 0.22~0.35     | 2       | ● 0059 |       |        |       |       |        |
|                                    | SDKN 1504 AETN - PW | 0.4     | 0.22~0.40     | 1.95    | ● 0288 |       |        |       |       |        |
|                                    | SDKN 1504 AETN - GW | 1.3     | 0.22~0.40     | 2.05    | ● 0286 |       |        |       |       |        |
| SDCN<br>Ground insert<br>无槽型       | SDCN 1203 AESN - M  |         | 0.05~0.2      | 2.04    |        |       | ● 0135 |       |       |        |
|                                    | SDCN 1504 AESN - M  |         | 0.05~0.2      | 2.19    |        |       | ● 0150 |       |       |        |
|                                    | SDCN 1504 AESN - MR | 1       | 0.05~0.2      | 2.19    |        |       | ● 0201 |       |       |        |

- PW : for Improved Surface Roughness  
- GW : Ground Wiper  
- M : for Mold & Die  
- MR : for Mold & Die Roughing

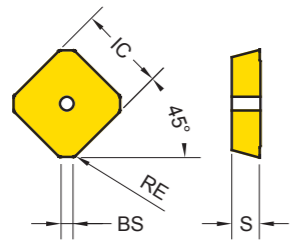
| Cutting Speed 切削速度 |       | Vc (m/min.)  |     |       |     |       |     |       |     |       |     |       |     |        |     |
|--------------------|-------|--------------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|--------|-----|
| ISO                | VDI   | Sub Group 分组 |     | YG602 |     | YG622 |     | YG712 |     | YG603 |     | YG501 |     | YG5020 |     |
|                    |       | Min          | Max | Min   | Max | Min   | Max | Min   | Max | Min   | Max | Min   | Max | Min    | Max |
| P                  | 1~5   | 140          | 380 | 140   | 400 | 170   | 300 | 90    | 230 | -     | -   | -     | -   | -      | -   |
|                    | 6~9   | 120          | 300 | 120   | 320 | 180   | 250 | 70    | 210 | -     | -   | -     | -   | -      | -   |
|                    | 10~11 | 70           | 150 | 70    | 170 | 100   | 140 | 60    | 100 | -     | -   | -     | -   | -      | -   |
| M                  | 12~13 | 120          | 200 | -     | -   | -     | -   | 80    | 180 | -     | -   | -     | -   | -      | -   |
|                    | 14    | 130          | 250 | -     | -   | -     | -   | 100   | 200 | -     | -   | -     | -   | -      | -   |
| K                  | 15~16 | 120          | 250 | 120   | 270 | -     | -   | -     | -   | 180   | 350 | 200   | 350 | -      | -   |
|                    | 17~18 | 130          | 220 | 130   | 240 | -     | -   | -     | -   | 120   | 270 | 150   | 300 | -      | -   |
| N                  | 21~30 | -            | -   | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | -      | -   |
| S                  | 31~37 | 25           | 45  | -     | -   | -     | -   | 20    | 40  | -     | -   | -     | -   | -      | -   |
| H                  | 38~41 | 40           | 80  | 40    | 100 | -     | -   | -     | -   | 50    | 90  | -     | -   | -      | -   |

| Cutting Speed 切削速度 |       | Vc (m/min.)  |     |       |     |       |     |       |     |       |     |       |     |        |     |
|--------------------|-------|--------------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|--------|-----|
| ISO                | VDI   | Sub Group 分组 |     | YG602 |     | YG622 |     | YG712 |     | YG603 |     | YG501 |     | YG5020 |     |
|                    |       | Min          | Max | Min   | Max | Min   | Max | Min   | Max | Min   | Max | Min   | Max | Min    | Max |
| P                  | 1~5   | 140          | 380 | 140   | 400 | 170   | 300 | 90    | 230 | -     | -   | -     | -   | -      | -   |
|                    | 6~9   | 120          | 300 | 120   | 320 | 180   | 250 | 70    | 210 | -     | -   | -     | -   | -      | -   |
|                    | 10~11 | 70           | 150 | 70    | 170 | 100   | 140 | 60    | 100 | -     | -   | -     | -   | -      | -   |
| M                  | 12~13 | 120          | 200 | -     | -   | -     | -   | 80    | 180 | -     | -   | -     | -   | -      | -   |
|                    | 14    | 130          | 250 | -     | -   | -     | -   | 100   | 200 | -     | -   | -     | -   | -      | -   |
| K                  | 15~16 | 120          | 250 | 120   | 270 | -     | -   | -     | -   | 180   | 350 | 200   | 350 | -      | -   |
|                    | 17~18 | 130          | 220 | 130   | 240 | -     | -   | -     | -   | 120   | 270 | 150   | 300 | -      | -   |
| N                  | 21~30 | -            | -   | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | -      | -   |
| S                  | 31~37 | 25           | 45  | -     | -   | -     | -   | 20    | 40  | -     | -   | -     | -   | -      | -   |
| H                  | 38~41 | 40           | 80  | 40    | 100 | -     | -   | -     | -   | 50    | 90  | -     | -   | -      | -   |

Milling - Face Milling - Inserts  
**SEKR / N** - Face Milling Positive (4 Corners ISO)

铣削 - 面铣削 - 刀杆

**SEKR/N** - 面铣削 正角型 (4刀尖ISO)



| Series    | AS  | IC   | S   |
|-----------|-----|------|-----|
| SEK* 1203 | 20° | 12.7 | 3.2 |

| EDP 1200.. |     |     |     |     |     |
|------------|-----|-----|-----|-----|-----|
| P25        | P30 | P20 | P40 |     |     |
| M30        |     |     | M35 |     |     |
| K30        | K30 |     | S30 | H15 | K15 |
| S20        |     |     |     |     |     |

●: Stock item 常备库存  
○: Order made item 按订单生产

| SEKR<br>SEKN                       | Designation       | RE (mm) | Fz (mm/tooth) | BS (mm) | YG602  | YG622 | YG712 | YG603 | YG501 | YG5020 |
|------------------------------------|-------------------|---------|---------------|---------|--------|-------|-------|-------|-------|--------|
| SEKR<br>General<br>通用型             | SEKR 1203 AFTN    | 0.4     | 0.14~0.30     | 1.4     | ● 0051 |       |       |       |       |        |
|                                    | SEKR 1203 AFTN-PW | 0.4     | 0.14~0.30     | 1.4     | ● 0296 |       |       |       |       |        |
| SEKN<br>Hard<br>Materials<br>高硬度材料 | SEKN 1203 AFTN    | 0.4     | 0.22~0.35     | 1.4     | ● 0054 |       |       |       |       |        |
|                                    | SEKN 1203 AFTN-PW | 0.4     | 0.22~0.35     | 1.4     | ● 0297 |       |       |       |       |        |
|                                    | SEKN 1203 AFTN-GW | 0.4     | 0.23~0.35     | 2       | ● 0304 |       |       |       |       |        |

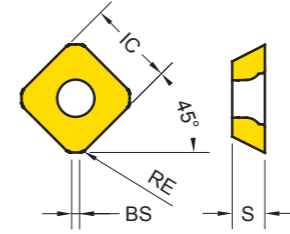
- PW : for Improved Surface Roughness - PW : 提高表面粗糙度  
- GW : Ground Wiper - GW : 修光刃

| Cutting Speed 切削速度 |       |                                   | Vc (m/min.) |     |       |     |       |     |       |     |       |     |        |     |
|--------------------|-------|-----------------------------------|-------------|-----|-------|-----|-------|-----|-------|-----|-------|-----|--------|-----|
| ISO                | VDI   | Sub Group 分组                      | YG602       |     | YG622 |     | YG712 |     | YG603 |     | YG501 |     | YG5020 |     |
|                    |       |                                   | Min         | Max | Min   | Max | Min   | Max | Min   | Max | Min   | Max | Min    | Max |
| P                  | 1~5   | Non-Alloyed Steel 非合金钢            | 140         | 380 | 140   | 400 | 170   | 300 | 90    | 230 | -     | -   | -      | -   |
|                    | 6~9   | Low-Alloyed Steel 低合金钢            | 120         | 300 | 120   | 320 | 180   | 250 | 70    | 210 | -     | -   | -      | -   |
|                    | 10~11 | High-Alloyed Steel 高合金钢           | 70          | 150 | 70    | 170 | 100   | 140 | 60    | 100 | -     | -   | -      | -   |
| M                  | 12~13 | Ferritic & Martensitic 铁素体&马氏体不锈钢 | 120         | 200 | -     | -   | -     | -   | 80    | 180 | -     | -   | -      | -   |
|                    | 14    | Austenitic Stainless Steel 奥氏体不锈钢 | 130         | 250 | -     | -   | -     | -   | 100   | 200 | -     | -   | -      | -   |
| K                  | 15~16 | Grey Cast Iron 灰铸铁                | 120         | 250 | 120   | 270 | -     | -   | -     | -   | 180   | 350 | 200    | 350 |
|                    | 17~18 | Nodular Cast Iron 球墨铸铁            | 130         | 220 | 130   | 240 | -     | -   | -     | -   | 120   | 270 | 150    | 300 |
| N                  | 21~30 | Non-Ferrous Metals (Al) 非铁金属      | -           | -   | -     | -   | -     | -   | -     | -   | -     | -   | -      | -   |
| S                  | 31~37 | Superalloys & Titanium 超耐热合金&钛合金  | 25          | 45  | -     | -   | -     | -   | 20    | 40  | -     | -   | -      | -   |
| H                  | 38~41 | Hard Materials 高硬度材料              | 40          | 80  | 40    | 100 | -     | -   | -     | -   | 50    | 90  | -      | -   |

Milling - Face Milling - Inserts  
**SEKT** - Face Milling Positive (4 Corners)

铣削 - 面铣削 - 刀杆

**SEKT** - 面铣削 正角型 (4刀尖)



| Series    | IC   | S   |
|-----------|------|-----|
| SEKT 1204 | 12.7 | 4.9 |
| SEKT 12T3 | 13.4 | 4   |

| EDP 1200.. |     |     |     |     |     |
|------------|-----|-----|-----|-----|-----|
| P25        | P30 | P20 | P40 |     |     |
| M30        |     |     | M35 |     |     |
| K30        | K30 |     | S30 | H15 | K15 |
| S20        |     |     |     |     |     |

●: Stock item 常备库存  
○: Order made item 按订单生产

| SEKT 1204                   | Designation    | RE (mm) | Fz (mm/tooth) | BS (mm) | YG602  | YG622 | YG712 | YG603 | YG501 | YG5020 |
|-----------------------------|----------------|---------|---------------|---------|--------|-------|-------|-------|-------|--------|
| SEKT 1204<br>General<br>通用型 | SEKT 1204 AFTN | 1.1     | 0.20~0.35     | 1.18    | ● 0055 |       |       |       |       |        |
|                             | SEKT 1204 -ST  | 1.1     | 0.08~0.30     | 1.18    | ● 0257 |       |       |       |       |        |

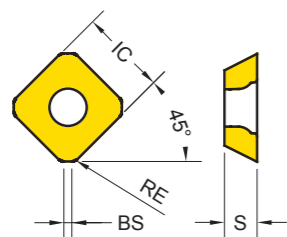
| SEKT 12T3                   | Designation    | RE (mm) | Fz (mm/tooth) | BS (mm) | YG602  | YG622 | YG712 | YG603 | YG501 | YG5020 |
|-----------------------------|----------------|---------|---------------|---------|--------|-------|-------|-------|-------|--------|
| SEKT 12T3<br>General<br>通用型 | SEKT 12T3 AGTN | 1.5     | 0.15~0.30     | 1.3     | ● 0056 |       |       |       |       |        |
|                             | SEKT 12T3 -ST  | 1.5     | 0.08~0.30     | 1.3     | ● 0271 |       |       |       |       |        |

| Cutting Speed 切削速度 |       |                                   | Vc (m/min.) |     |       |     |       |     |       |     |       |     |        |     |
|--------------------|-------|-----------------------------------|-------------|-----|-------|-----|-------|-----|-------|-----|-------|-----|--------|-----|
| ISO                | VDI   | Sub Group 分组                      | YG602       |     | YG622 |     | YG712 |     | YG603 |     | YG501 |     | YG5020 |     |
|                    |       |                                   | Min         | Max | Min   | Max | Min   | Max | Min   | Max | Min   | Max | Min    | Max |
| P                  | 1~5   | Non-Alloyed Steel 非合金钢            | 140         | 380 | 140   | 400 | 170   | 300 | 90    | 230 | -     | -   | -      | -   |
|                    | 6~9   | Low-Alloyed Steel 低合金钢            | 120         | 300 | 120   | 320 | 180   | 250 | 70    | 210 | -     | -   | -      | -   |
|                    | 10~11 | High-Alloyed Steel 高合金钢           | 70          | 150 | 70    | 170 | 100   | 140 | 60    | 100 | -     | -   | -      | -   |
| M                  | 12~13 | Ferritic & Martensitic 铁素体&马氏体不锈钢 | 120         | 200 | -     | -   | -     | -   | 80    | 180 | -     | -   | -      | -   |
|                    | 14    | Austenitic Stainless Steel 奥氏体不锈钢 | 130         | 250 | -     | -   | -     | -   | 100   | 200 | -     | -   | -      | -   |
| K                  | 15~16 | Grey Cast Iron 灰铸铁                | 120         | 250 | 120   | 270 | -     | -   | -     | -   | 180   | 350 | 200    | 350 |
|                    | 17~18 | Nodular Cast Iron 球墨铸铁            | 130         | 220 | 130   | 240 | -     | -   | -     | -   | 120   | 270 | 150    | 300 |
| N                  | 21~30 | Non-Ferrous Metals (Al) 非铁金属      | -           | -   | -     | -   | -     | -   | -     | -   | -     | -   | -      | -   |
| S                  | 31~37 | Superalloys & Titanium 超耐热合金&钛合金  | 25          | 45  | -     | -   | -     | -   | 20    | 40  | -     | -   | -      | -   |
| H                  | 38~41 | Hard Materials 高硬度材料              | 40          | 80  | 40    | 100 | -     | -   | -     | -   | 50    | 90  | -      | -   |

Milling - Face Milling - Inserts  
**SEGT** - Face Milling Positive (4 Corners)

铣削 - 面铣削 - 刀杆

**SEGT** - 面铣削 正角型 (4刀尖)



| Series    | IC    | S    |
|-----------|-------|------|
| SEGT 1204 | 12.74 | 4.91 |
| SEGT 12T3 | 13.4  | 4.03 |

EDP 1200..

| P25 | P30 | P20 | P40 |
|-----|-----|-----|-----|
| M30 |     |     | M35 |
| K30 | K30 |     | K15 |
| S20 |     | S30 | H15 |
|     |     |     | N15 |

●: Stock item 常备库存  
○: Order made item 按订单生产

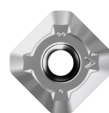
| SEGT 1204 | Designation  | RE (mm) | Fz (mm/tooth) | BS (mm) | EDP 1200.. |       |       |       |       |        |      |      |
|-----------|--------------|---------|---------------|---------|------------|-------|-------|-------|-------|--------|------|------|
|           |              |         |               |         | YG602      | YG622 | YG712 | YG603 | YG501 | YG5020 | YG50 |      |
|           | SEGT 1204-AL | 1.1     | 0.1~0.35      | 2.01    |            |       |       |       |       |        |      | ○    |
|           |              |         |               |         |            |       |       |       |       |        |      | 0467 |

**-AL**  
Aluminium



| SEGT 12T3 | Designation  | RE (mm) | Fz (mm/tooth) | BS (mm) | EDP 1200.. |       |       |       |       |        |      |      |
|-----------|--------------|---------|---------------|---------|------------|-------|-------|-------|-------|--------|------|------|
|           |              |         |               |         | YG602      | YG622 | YG712 | YG603 | YG501 | YG5020 | YG50 |      |
|           | SEGT 12T3-AL | 1.5     | 0.1~0.35      | 1.94    |            |       |       |       |       |        |      | ○    |
|           |              |         |               |         |            |       |       |       |       |        |      | 0468 |

**-AL**  
Aluminium

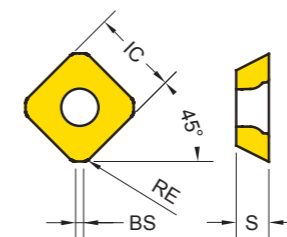


| Cutting Speed 切削速度 |       |              |     | Vc (m/min.) |     |       |     |       |     |       |     |       |     |        |     |      |     |
|--------------------|-------|--------------|-----|-------------|-----|-------|-----|-------|-----|-------|-----|-------|-----|--------|-----|------|-----|
| ISO                | VDI   | Sub Group 分组 |     | YG602       |     | YG622 |     | YG712 |     | YG603 |     | YG501 |     | YG5020 |     | YG50 |     |
|                    |       | Min          | Max | Min         | Max | Min   | Max | Min   | Max | Min   | Max | Min   | Max | Min    | Max | Min  | Max |
| P                  | 1~5   | 140          | 380 | 140         | 400 | 170   | 300 | 90    | 230 | -     | -   | -     | -   | -      | -   | -    | -   |
|                    | 6~9   | 120          | 300 | 120         | 320 | 180   | 250 | 70    | 210 | -     | -   | -     | -   | -      | -   | -    | -   |
|                    | 10~11 | 70           | 150 | 70          | 170 | 100   | 140 | 60    | 100 | -     | -   | -     | -   | -      | -   | -    | -   |
| M                  | 12~13 | 120          | 200 | -           | -   | -     | -   | 80    | 180 | -     | -   | -     | -   | -      | -   | -    | -   |
|                    | 14    | 130          | 250 | -           | -   | -     | -   | 100   | 200 | -     | -   | -     | -   | -      | -   | -    | -   |
| K                  | 15~16 | 120          | 250 | 120         | 270 | -     | -   | -     | -   | 180   | 350 | 200   | 350 | -      | -   | -    | -   |
|                    | 17~18 | 130          | 220 | 130         | 240 | -     | -   | -     | -   | 120   | 270 | 150   | 300 | -      | -   | -    | -   |
| N                  | 21~30 | -            | -   | -           | -   | -     | -   | -     | -   | -     | -   | -     | -   | 300    | 800 | -    | -   |
| S                  | 31~37 | 25           | 45  | -           | -   | -     | -   | 20    | 40  | -     | -   | -     | -   | -      | -   | -    | -   |
| H                  | 38~41 | 40           | 80  | 40          | 100 | -     | -   | -     | -   | 50    | 90  | -     | -   | -      | -   | -    | -   |

Milling - Face Milling - Inserts  
**SEMT** - Face Milling Positive (4 Corners)

铣削 - 面铣削 - 刀杆

**SEMT** - 面铣削 正角型 (4刀尖)



| Series   | IC    | S   |
|----------|-------|-----|
| SEMT1204 | 12.92 | 5.1 |
| SEMT13T3 | 13.4  | 4.0 |

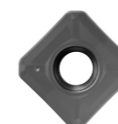
EDP 1200..

| P25 | P30 | P20 | P40 |
|-----|-----|-----|-----|
| M30 |     |     | M35 |
| K30 | K30 |     | K15 |
| S20 |     | S30 | H15 |
|     |     |     | N15 |

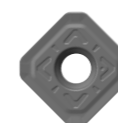
●: Stock item 常备库存  
○: Order made item 按订单生产

| SEMT | Designation    | RE (mm) | Fz (mm/tooth) | BS (mm) | EDP 1200.. |       |       |       |       |        |      |  |
|------|----------------|---------|---------------|---------|------------|-------|-------|-------|-------|--------|------|--|
|      |                |         |               |         | YG602      | YG622 | YG712 | YG603 | YG501 | YG5020 | YG50 |  |
|      | SEMT 1204 AFTN | 1.2     | 0.26~0.4      | 1.24    | ●          |       |       |       |       |        |      |  |
|      |                |         |               |         | 0052       |       |       |       |       |        |      |  |
|      | SEMT 13T3 AGSN | 1.5     | 0.15 ~ 0.3    | 1.31    | ●          |       |       |       |       |        |      |  |
|      |                |         |               |         | 0203       |       |       |       |       |        |      |  |

**SEMT 1204**  
General  
通用型



**SEMT 13T3**  
General  
通用型



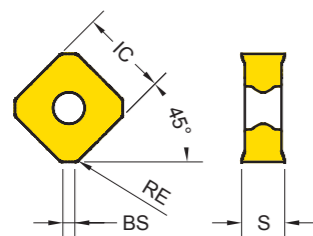
| Cutting Speed 切削速度 |       |              |     | Vc (m/min.) |     |       |     |       |     |       |     |       |     |        |  |
|--------------------|-------|--------------|-----|-------------|-----|-------|-----|-------|-----|-------|-----|-------|-----|--------|--|
| ISO                | VDI   | Sub Group 分组 |     | YG602       |     | YG622 |     | YG712 |     | YG603 |     | YG501 |     | YG5020 |  |
|                    |       | Min          | Max | Min         | Max | Min   | Max | Min   | Max | Min   | Max | Min   | Max |        |  |
| P                  | 1~5   | 140          | 380 | 140         | 400 | 170   | 300 | 90    | 230 | -     | -   | -     | -   | -      |  |
|                    | 6~9   | 120          | 300 | 120         | 320 | 180   | 250 | 70    | 210 | -     | -   | -     | -   | -      |  |
|                    | 10~11 | 70           | 150 | 70          | 170 | 100   | 140 | 60    | 100 | -     | -   | -     | -   | -      |  |
| M                  | 12~13 | 120          | 200 | -           | -   | -     | -   | 80    | 180 | -     | -   | -     | -   | -      |  |
|                    | 14    | 130          | 250 | -           | -   | -     | -   | 100   | 200 | -     | -   | -     | -   | -      |  |
| K                  | 15~16 | 120          | 250 | 120         | 270 | -     | -   | -     | -   | 180   | 350 | 200   | 350 | -      |  |
|                    | 17~18 | 130          | 220 | 130         | 240 | -     | -   | -     | -   | 120   | 270 | 150   | 300 | -      |  |
| N                  | 21~30 | -            | -   | -           | -   | -     | -   | -     | -   | -     | -   | -     | -   | -      |  |
| S                  | 31~37 | 25           | 45  | -           | -   | -     | -   | 20    | 40  | -     | -   | -     | -   | -      |  |
| H                  | 38~41 | 40           | 80  | 40          | 100 | -     | -   | -     | -   | 50    | 90  | -     | -   | -      |  |

Milling - Face Milling - Inserts

铣削 - 面铣削 - 刀杆

**SNMX** - Face Milling Negative (8 Corners)

**SNMX** - 面铣削 负角型 (8刀尖)



| Series    | IC   | S    |
|-----------|------|------|
| SNMX 1206 | 12.7 | 6.25 |

EDP 1200..

| P25 | P30 | P20 | P40 |
|-----|-----|-----|-----|
| M30 |     |     | M35 |
| K30 | K30 |     | K15 |
| S20 |     | S30 | H15 |

●: Stock item 常备库存  
○: Order made item 按订单生产

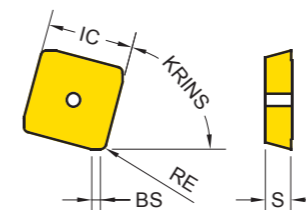
| SNMX        | Designation   | RE (mm) | Fz (mm/tooth) | BS (mm) | EDP 1200.. |       |       |       |       |        |
|-------------|---------------|---------|---------------|---------|------------|-------|-------|-------|-------|--------|
|             |               |         |               |         | YG602      | YG622 | YG712 | YG603 | YG501 | YG5020 |
| General 通用型 | SNMX 1206 ANN | 0.8     | 0.16~0.34     | 1.7     | ● 0231     |       |       |       |       |        |

Milling - Face Milling - Inserts

铣削 - 面铣削 - 刀杆

**SPKN / R / CN** - Face Milling Positive (4 Corners ISO)

**SPKN/R/CN** - 面铣削 正角型 (4刀尖 ISO)



| Series    | KRINS | AS  | IC    | S    |
|-----------|-------|-----|-------|------|
| SP** 1203 | 75°   | 11° | 12.7  | 3.18 |
| SP** 1504 | 75°   | 11° | 15.88 | 4.76 |

EDP 1200..

| P25 | P30 | P20 | P40 |
|-----|-----|-----|-----|
| M30 |     |     | M35 |
| K30 | K30 |     | K15 |
| S20 |     | S30 | H15 |

●: Stock item 常备库存  
○: Order made item 按订单生产

| SPKR SPKN SPCN                     | Designation         | RE (mm) | Fz (mm/tooth) | BS (mm) | YG602  | YG622 | YG712  | YG603 | YG501 | YG5020 |
|------------------------------------|---------------------|---------|---------------|---------|--------|-------|--------|-------|-------|--------|
| SPKR<br>General<br>通用型             | SPKR 1203 EDTR      | 0.8     | 0.15~0.35     | 1.4     | ● 0050 |       |        |       |       |        |
|                                    | SPKR 1203 EDTR -PW  | 0.8     | 0.15~0.35     | 1.4     | ● 0298 |       |        |       |       |        |
| SPKN<br>Hard<br>Materials<br>高硬度材料 | SPKN 1203 EDTR      | 0.8     | 0.16~0.34     | 1.4     | ● 0048 |       |        |       |       |        |
|                                    | SPKN 1203 EDTR - PW | 0.8     | 0.20~0.35     | 1.4     | ● 0279 |       |        |       |       |        |
|                                    | SPKN 1203 EDTR - GW | 0.6     | 0.15~0.28     | 1.51    | ● 0280 |       |        |       |       |        |
|                                    | SPKN 1504 EDTR      |         | 0.15~0.34     | 1.3     | ● 0049 |       |        |       |       |        |
|                                    | SPKN 1504 EDTR - PW |         | 0.25~0.40     | 1.3     | ● 0299 |       |        |       |       |        |
|                                    | SPKN 1504 EDTR - GW | 0.8     | 0.25~0.4      | 2.2     | ● 0305 |       |        |       |       |        |
| SPCN<br>Ground insert<br>无槽型       | SPCN 1203 EDSR - M  | 0.8     | 0.1~0.2       | 1.82    |        |       | ● 0081 |       |       |        |
|                                    | SPCN 1203 EDSR - MR | 0.8     | 0.1~0.2       | 1.77    |        |       | ● 0198 |       |       |        |
|                                    | SPCN 1504 EDSR - M  | 0.8     | 0.1~0.2       | 1.92    |        |       | ● 0098 |       |       |        |
|                                    | SPCN 1504 EDSR - MR | 0.8     | 0.1~0.2       | 1.86    |        |       | ● 0199 |       |       |        |

- PW : for Improved Surface Roughness - PW : 提高表面粗糙度  
- GW : Ground Wiper - GW : 修光刃  
- M : for Mold & Die - M : 用于模具工件  
- MR : for Mold & Die Roughing - MR : 用于模具工件粗加工

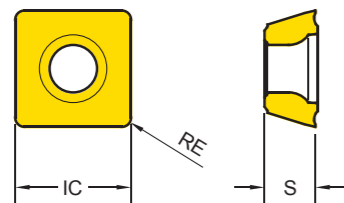
| Cutting Speed 切削速度 |       |                                   | Vc (m/min.) |     |       |     |       |     |       |     |       |     |        |     |
|--------------------|-------|-----------------------------------|-------------|-----|-------|-----|-------|-----|-------|-----|-------|-----|--------|-----|
| ISO                | VDI   | Sub Group 分组                      | YG602       |     | YG622 |     | YG712 |     | YG603 |     | YG501 |     | YG5020 |     |
|                    |       |                                   | Min         | Max | Min   | Max | Min   | Max | Min   | Max | Min   | Max | Min    | Max |
| P                  | 1~5   | Non-Alloyed Steel 非合金钢            | 140         | 380 | 140   | 400 | 170   | 300 | 90    | 230 | -     | -   | -      | -   |
|                    | 6~9   | Low-Alloyed Steel 低合金钢            | 120         | 300 | 120   | 320 | 180   | 250 | 70    | 210 | -     | -   | -      | -   |
|                    | 10~11 | High-Alloyed Steel 高合金钢           | 70          | 150 | 70    | 170 | 100   | 140 | 60    | 100 | -     | -   | -      | -   |
| M                  | 12~13 | Ferritic & Martensitic 铁素体&马氏体不锈钢 | 120         | 200 | -     | -   | -     | -   | 80    | 180 | -     | -   | -      | -   |
|                    | 14    | Austenitic Stainless Steel 奥氏体不锈钢 | 130         | 250 | -     | -   | -     | -   | 100   | 200 | -     | -   | -      | -   |
| K                  | 15~16 | Grey Cast Iron 灰铸铁                | 120         | 250 | 120   | 270 | -     | -   | -     | -   | 180   | 350 | 200    | 350 |
|                    | 17~18 | Nodular Cast Iron 球墨铸铁            | 130         | 220 | 130   | 240 | -     | -   | -     | -   | 120   | 270 | 150    | 300 |
| N                  | 21~30 | Non-Ferrous Metals (Al) 非铁金属      | -           | -   | -     | -   | -     | -   | -     | -   | -     | -   | -      | -   |
| S                  | 31~37 | Superalloys & Titanium 超耐热合金&钛合金  | 25          | 45  | -     | -   | -     | -   | 20    | 40  | -     | -   | -      | -   |
| H                  | 38~41 | Hard Materials 高硬材料               | 40          | 80  | 40    | 100 | -     | -   | -     | -   | 50    | 90  | -      | -   |

| Cutting Speed 切削速度 |       |                                   | Vc (m/min.) |     |       |     |       |     |       |     |       |     |        |     |
|--------------------|-------|-----------------------------------|-------------|-----|-------|-----|-------|-----|-------|-----|-------|-----|--------|-----|
| ISO                | VDI   | Sub Group 分组                      | YG602       |     | YG622 |     | YG712 |     | YG603 |     | YG501 |     | YG5020 |     |
|                    |       |                                   | Min         | Max | Min   | Max | Min   | Max | Min   | Max | Min   | Max | Min    | Max |
| P                  | 1~5   | Non-Alloyed Steel 非合金钢            | 140         | 380 | 140   | 400 | 170   | 300 | 90    | 230 | -     | -   | -      | -   |
|                    | 6~9   | Low-Alloyed Steel 低合金钢            | 120         | 300 | 120   | 320 | 180   | 250 | 70    | 210 | -     | -   | -      | -   |
|                    | 10~11 | High-Alloyed Steel 高合金钢           | 70          | 150 | 70    | 170 | 100   | 140 | 60    | 100 | -     | -   | -      | -   |
| M                  | 12~13 | Ferritic & Martensitic 铁素体&马氏体不锈钢 | 120         | 200 | -     | -   | -     | -   | 80    | 180 | -     | -   | -      | -   |
|                    | 14    | Austenitic Stainless Steel 奥氏体不锈钢 | 130         | 250 | -     | -   | -     | -   | 100   | 200 | -     | -   | -      | -   |
| K                  | 15~16 | Grey Cast Iron 灰铸铁                | 120         | 250 | 120   | 270 | -     | -   | -     | -   | 180   | 350 | 200    | 350 |
|                    | 17~18 | Nodular Cast Iron 球墨铸铁            | 130         | 220 | 130   | 240 | -     | -   | -     | -   | 120   | 270 | 150    | 300 |
| N                  | 21~30 | Non-Ferrous Metals (Al) 非铁金属      | -           | -   | -     | -   | -     | -   | -     | -   | -     | -   | -      | -   |
| S                  | 31~37 | Superalloys & Titanium 超耐热合金&钛合金  | 25          | 45  | -     | -   | -     | -   | 20    | 40  | -     | -   | -      | -   |
| H                  | 38~41 | Hard Materials 高硬材料               | 40          | 80  | 40    | 100 | -     | -   | -     | -   | 50    | 90  | -      | -   |

Milling - Face Milling - Inserts  
**SPMT** - Universal Positive (4 Corners)

铣削 - 面铣削 - 刀杆

**SPMT** - 面铣削 正角型 (4刀尖)



| Series    | AS  | IC   | S    |
|-----------|-----|------|------|
| SPMT 1204 | 11° | 12.7 | 4.81 |

EDP 1200..

| P25 | P30 | P20 | P40 |
|-----|-----|-----|-----|
| M30 |     |     | M35 |
| K30 | K30 |     | K15 |
| S20 |     | S30 | H15 |

●: Stock item 常备库存  
 ○: Order made item 按订单生产

| SPMT | Designation | RE (mm) | Fz (mm/tooth) | BS (mm) | YG602  | YG622 | YG712 | YG603 | YG501 | YG5020 |
|------|-------------|---------|---------------|---------|--------|-------|-------|-------|-------|--------|
|      | SPMT 120408 | 0.8     | 0.15~0.3      |         | ● 0223 |       |       |       |       |        |

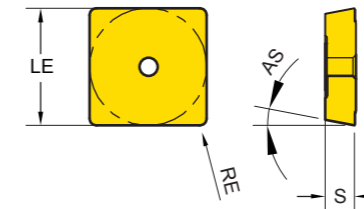


SPMT General 通用型

Milling - Face Milling - Inserts  
**SPUN** - Universal Positive (4 Corners ISO)

铣削 - 面铣削 - 刀杆

**SPUN** - 通用型 正角型 (4刀尖 ISO)



| Series    | AS  | IC   | S   |
|-----------|-----|------|-----|
| SPUN 1203 | 11° | 12.7 | 3.2 |

EDP 1200..

| P25 | P30 | P20 | P40 |
|-----|-----|-----|-----|
| M30 |     |     | M35 |
| K30 | K30 |     | K15 |
| S20 |     | S30 | H15 |

●: Stock item 常备库存  
 ○: Order made item 按订单生产

| SPUN | Designation | RE (mm) | Fz (mm/tooth) | BS (mm) | YG602  | YG622 | YG712 | YG603 | YG501 | YG5020 |
|------|-------------|---------|---------------|---------|--------|-------|-------|-------|-------|--------|
|      | SPUN 120308 | 0.8     |               |         | ● 0224 |       |       |       |       |        |



SPUN General 通用型

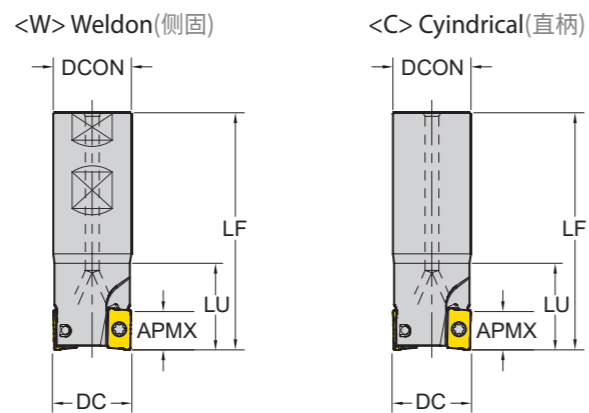
| Cutting Speed 切削速度 |       | Vc (m/min.)                       |     |       |     |       |     |       |     |       |     |       |     |        |     |
|--------------------|-------|-----------------------------------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|--------|-----|
| ISO                | VDI   | Sub Group 分组                      |     | YG602 |     | YG622 |     | YG712 |     | YG603 |     | YG501 |     | YG5020 |     |
|                    |       | Min                               | Max | Min   | Max | Min   | Max | Min   | Max | Min   | Max | Min   | Max | Min    | Max |
| P                  | 1~5   | Non-Alloyed Steel 非合金钢            |     | 140   | 380 | 140   | 400 | 170   | 300 | 90    | 230 | -     | -   | -      | -   |
|                    | 6~9   | Low-Alloyed Steel 低合金钢            |     | 120   | 300 | 120   | 320 | 180   | 250 | 70    | 210 | -     | -   | -      | -   |
|                    | 10~11 | High-Alloyed Steel 高合金钢           |     | 70    | 150 | 70    | 170 | 100   | 140 | 60    | 100 | -     | -   | -      | -   |
| M                  | 12~13 | Ferritic & Martensitic 铁素体&马氏体不锈钢 |     | 120   | 200 | -     | -   | -     | -   | 80    | 180 | -     | -   | -      | -   |
|                    | 14    | Austenitic Stainless Steel 奥氏体不锈钢 |     | 130   | 250 | -     | -   | -     | -   | 100   | 200 | -     | -   | -      | -   |
| K                  | 15~16 | Grey Cast Iron 灰铸铁                |     | 120   | 250 | 120   | 270 | -     | -   | -     | -   | 180   | 350 | 200    | 350 |
|                    | 17~18 | Nodular Cast Iron 球墨铸铁            |     | 130   | 220 | 130   | 240 | -     | -   | -     | -   | 120   | 270 | 150    | 300 |
| N                  | 21~30 | Non-Ferrous Metals (Al) 非铁金属      |     | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | -      | -   |
| S                  | 31~37 | Superalloys & Titanium 超耐热合金&钛合金  |     | 25    | 45  | -     | -   | -     | -   | 20    | 40  | -     | -   | -      | -   |
| H                  | 38~41 | Hard Materials 高硬材料               |     | 40    | 80  | 40    | 100 | -     | -   | -     | -   | 50    | 90  | -      | -   |

| Cutting Speed 切削速度 |       | Vc (m/min.)                       |     |       |     |       |     |       |     |       |     |       |     |        |     |
|--------------------|-------|-----------------------------------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|--------|-----|
| ISO                | VDI   | Sub Group 分组                      |     | YG602 |     | YG622 |     | YG712 |     | YG603 |     | YG501 |     | YG5020 |     |
|                    |       | Min                               | Max | Min   | Max | Min   | Max | Min   | Max | Min   | Max | Min   | Max | Min    | Max |
| P                  | 1~5   | Non-Alloyed Steel 非合金钢            |     | 140   | 380 | 140   | 400 | 170   | 300 | 90    | 230 | -     | -   | -      | -   |
|                    | 6~9   | Low-Alloyed Steel 低合金钢            |     | 120   | 300 | 120   | 320 | 180   | 250 | 70    | 210 | -     | -   | -      | -   |
|                    | 10~11 | High-Alloyed Steel 高合金钢           |     | 70    | 150 | 70    | 170 | 100   | 140 | 60    | 100 | -     | -   | -      | -   |
| M                  | 12~13 | Ferritic & Martensitic 铁素体&马氏体不锈钢 |     | 120   | 200 | -     | -   | -     | -   | 80    | 180 | -     | -   | -      | -   |
|                    | 14    | Austenitic Stainless Steel 奥氏体不锈钢 |     | 130   | 250 | -     | -   | -     | -   | 100   | 200 | -     | -   | -      | -   |
| K                  | 15~16 | Grey Cast Iron 灰铸铁                |     | 120   | 250 | 120   | 270 | -     | -   | -     | -   | 180   | 350 | 200    | 350 |
|                    | 17~18 | Nodular Cast Iron 球墨铸铁            |     | 130   | 220 | 130   | 240 | -     | -   | -     | -   | 120   | 270 | 150    | 300 |
| N                  | 21~30 | Non-Ferrous Metals (Al) 非铁金属      |     | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | -      | -   |
| S                  | 31~37 | Superalloys & Titanium 超耐热合金&钛合金  |     | 25    | 45  | -     | -   | -     | -   | 20    | 40  | -     | -   | -      | -   |
| H                  | 38~41 | Hard Materials 高硬材料               |     | 40    | 80  | 40    | 100 | -     | -   | -     | -   | 50    | 90  | -      | -   |

Milling - Shoulder Milling - Cutter  
**Cutters for APKT**

铣削 - 方肩铣削 - 刀杆  
刀杆为APKT

Cutting Angle(切削角) : 90°  
2 Corner Positive(刀尖 正角型)



ZEFP : Effective Number of Cutting Edges  
CICT : Number of Inserts  
CBDP : Connection Bore Depth

ZEFP : 有效刃数  
CICT : 刀片数  
CBDP : 刀柄连接孔深度

□: p. 126 Unit(单位):mm

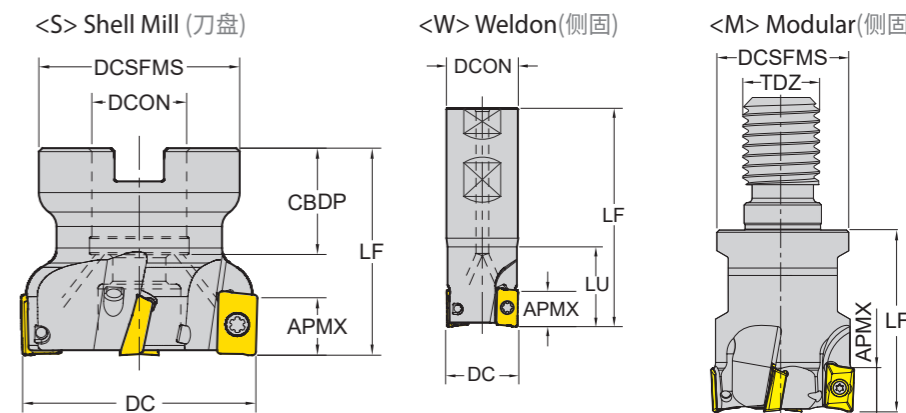
| Series    | APMX | Designation                          | EDP 1700.. | DC | ZEFP | LU  | LF  | TYPE        | DCON | CBDP | DCSFMS | PCD1 | PCD2 | ☉ |
|-----------|------|--------------------------------------|------------|----|------|-----|-----|-------------|------|------|--------|------|------|---|
| APKT 1003 | 10.0 | E90 - APKT10 - D16Z2C16 - L100       | 0083       | 16 | 2    | -   | 100 | Cylindrical | 16   | -    | -      | -    | -    | ● |
|           |      | E90 - APKT10 - D16Z2C16 - L120       | 0532       | 16 | 2    | 30  | 120 |             | 16   | -    | -      | -    | -    | ● |
|           |      | E90 - APKT10 - D16Z2C16 - L150       | 0154       | 16 | 2    | 50  | 150 |             | 16   | -    | -      | -    | -    | ● |
|           |      | E90 - APKT10 - D16Z2C16 - L200       | 0533       | 16 | 2    | 100 | 200 |             | 16   | -    | -      | -    | -    | ● |
|           |      | E90 - APKT10 - D20Z2C20 - L250       | 0534       | 20 | 2    | 150 | 250 |             | 20   | -    | -      | -    | -    | ● |
|           |      | E90 - APKT10 - D20Z3C20 - L100       | 0535       | 20 | 3    | 30  | 100 |             | 20   | -    | -      | -    | -    | ● |
|           |      | E90 - APKT10 - D20Z3C20 - L120       | 0085       | 20 | 3    | -   | 120 |             | 20   | -    | -      | -    | -    | ● |
|           |      | E90 - APKT10 - D20Z3C20 - L150       | 0536       | 20 | 3    | 50  | 150 |             | 20   | -    | -      | -    | -    | ● |
|           |      | E90 - APKT10 - D20Z3C20 - L200       | 0270       | 20 | 3    | 100 | 200 |             | 20   | -    | -      | -    | -    | ● |
|           |      | E90 - APKT10 - D25Z3C25 - L100       | 0537       | 25 | 3    | 30  | 100 |             | 25   | -    | -      | -    | -    | ● |
|           |      | E90 - APKT10 - D25Z3C25 - L120       | 0186       | 25 | 3    | 30  | 120 | 25          | -    | -    | -      | -    | ●    |   |
|           |      | E90 - APKT10 - D30Z4C25 - L100       | 0122       | 30 | 4    | 30  | 100 | 25          | -    | -    | -      | -    | ●    |   |
|           |      | E90 - APKT10 - D30Z4C25 - L120       | 0086       | 30 | 4    | 30  | 120 | 25          | -    | -    | -      | -    | ●    |   |
|           |      | E90 - APKT10 - D32Z4C25 - L100       | 0538       | 32 | 4    | 35  | 100 | 25          | -    | -    | -      | -    | ●    |   |
|           |      | E90 - APKT10 - D32Z4C25 - L150 - WOC | 0539       | 32 | 4    | 35  | 150 | 25          | -    | -    | -      | -    | X    |   |
|           |      | E90 - APKT10 - D12Z1W16 - L100       | 0540       | 12 | 1    | 30  | 100 | Weldon      | 16   | -    | -      | -    | -    | ● |
|           |      | E90 - APKT10 - D14Z1W16 - L100       | 0541       | 14 | 1    | 30  | 100 |             | 16   | -    | -      | -    | -    | ● |
|           |      | E90 - APKT10 - D16Z2W16 - L100       | 0542       | 16 | 2    | 30  | 100 |             | 16   | -    | -      | -    | -    | ● |
|           |      | E90 - APKT10 - D16Z2W16 - L85        | 0082       | 16 | 2    | -   | 85  |             | 16   | -    | -      | -    | -    | ● |
|           |      | E90 - APKT10 - D18Z2W16 - L100       | 0543       | 18 | 2    | 30  | 100 |             | 16   | -    | -      | -    | -    | ● |

▶ NEXT PAGE

Milling - Shoulder Milling - Cutter  
**Cutters for APKT**

铣削 - 方肩铣削 - 刀杆  
刀杆为APKT

Cutting Angle(切削角) : 90°  
2 Corner Positive(刀尖 正角型)



ZEFP : Effective Number of Cutting Edges  
CICT : Number of Inserts  
CBDP : Connection Bore Depth

ZEFP : 有效刃数  
CICT : 刀片数  
CBDP : 刀柄连接孔深度

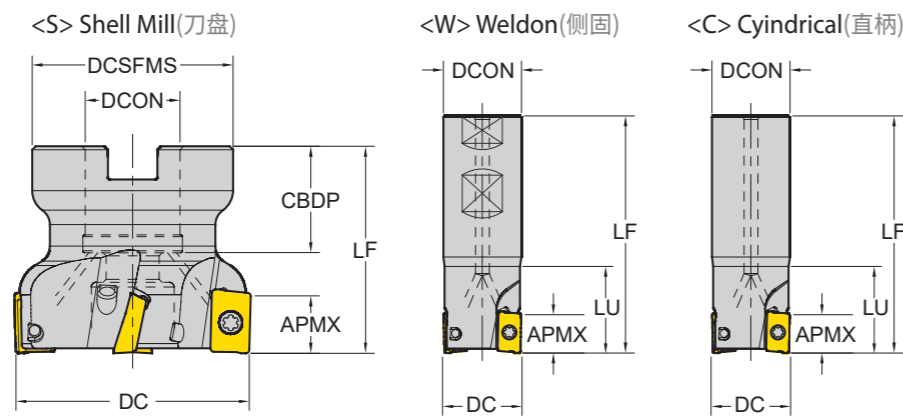
□: p. 126 Unit(单位):mm

| Series    | APMX | Designation                          | EDP 1700.. | DC  | ZEFP | LU | LF  | TYPE    | DCON /TDZ | CBDP | DCSFMS | PCD1 | PCD2 | ☉ |
|-----------|------|--------------------------------------|------------|-----|------|----|-----|---------|-----------|------|--------|------|------|---|
| APKT 1003 | 10.0 | E90 - APKT10 - D20Z3W20 - L100       | 0461       | 20  | 3    | 30 | 100 | Weldon  | 20        | -    | -      | -    | -    | ● |
|           |      | E90 - APKT10 - D20Z3W20 - L90        | 0084       | 20  | 3    | -  | 90  |         | 20        | -    | -      | -    | -    | ● |
|           |      | E90 - APKT10 - D22Z3W20 - L100       | 0544       | 22  | 3    | 30 | 100 |         | 20        | -    | -      | -    | -    | ● |
|           |      | E90 - APKT10 - D25Z3W25 - L100       | 0545       | 25  | 3    | 30 | 100 |         | 25        | -    | -      | -    | -    | ● |
|           |      | E90 - APKT10 - D25Z4W25 - L100       | 0546       | 25  | 4    | 30 | 100 |         | 25        | -    | -      | -    | -    | ● |
|           |      | E90 - APKT10 - D32Z4W32 - L150 - WOC | 0547       | 32  | 4    | 50 | 150 |         | 32        | -    | -      | -    | -    | X |
|           |      | F90 - APKT10 - D40Z4S16              | 0087       | 40  | 4    | -  | 40  |         | Shellmill | 16   | 18     | 34   | -    | - |
|           |      | F90 - APKT10 - D40Z5S16              | 0472       | 40  | 5    | -  | 40  | 16      |           | 20   | 36     | -    | -    | ● |
|           |      | F90 - APKT10 - D50Z6S22              | 0215       | 50  | 6    | -  | 40  | 22      |           | 22   | 42     | -    | -    | ● |
|           |      | F90 - APKT10 - D50Z7S22              | 0088       | 50  | 7    | -  | 40  | 22      |           | 20   | 42     | -    | -    | ● |
|           |      | F90 - APKT10 - D63Z7S22              | 0548       | 63  | 7    | -  | 40  | 22      |           | 22   | 48     | -    | -    | ● |
|           |      | F90 - APKT10 - D80Z8S27              | 0549       | 80  | 8    | -  | 50  | 27      |           | 25   | 58     | -    | -    | ● |
|           |      | F90 - APKT10 - D100Z9S32             | 0550       | 100 | 9    | -  | 50  | 32      |           | 26   | 65     | -    | -    | ● |
|           |      | M90 - APKT10 - D16Z2M08              | 0551       | 16  | 2    | -  | 30  | Modular | M08       | -    | 14.75  | -    | -    | ● |
|           |      | M90 - APKT10 - D20Z3M10              | 0552       | 20  | 3    | -  | 30  |         | M10       | -    | 18     | -    | -    | ● |
|           |      | M90 - APKT10 - D25Z3M12              | 0553       | 25  | 3    | -  | 35  |         | M12       | -    | 21     | -    | -    | ● |
|           |      | M90 - APKT10 - D32Z4M16              | 0554       | 32  | 4    | -  | 35  |         | M16       | -    | 29     | -    | -    | ● |
|           |      | M90 - APKT10 - D40Z5M16              | 0555       | 40  | 5    | -  | 43  |         | M16       | -    | 29     | -    | -    | ● |
|           |      | M90 - APKT10 - D42Z5M16              | 0556       | 42  | 5    | -  | 43  |         | M16       | -    | 29     | -    | -    | ● |

Milling - Shoulder Milling - Cutter  
**Cutters for APKT**

铣削 - 方肩铣削 - 刀杆  
**刀杆为APKT**

Cutting Angle(切削角) : 90°  
2 Corner Positive(刀尖 正角型)



ZEFP : Effective Number of Cutting Edges  
CICT : Number of Inserts  
CBDP : Connection Bore Depth

ZEFP : 有效刃数  
CICT : 刀片数  
CBDP : 刀柄连接孔深度

□: p. 126 Unit(单位):mm

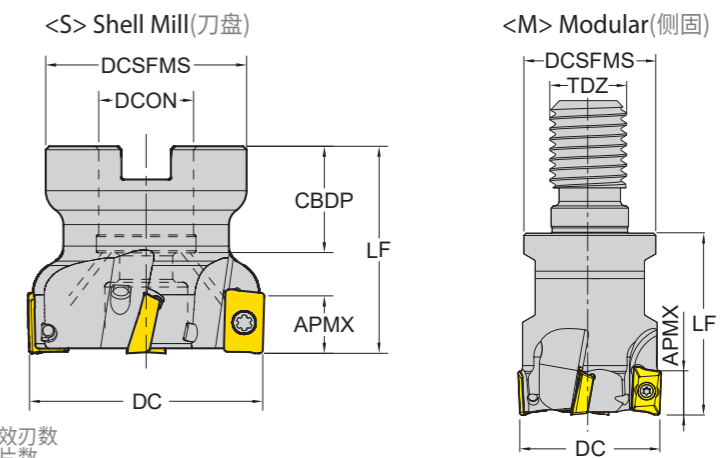
| Series           | APMX | Designation                          | EDP 1700.. | DC | ZEFP | LU  | LF  | TYPE        | DCON | CBDP | DCSFMS | PCD1 | PCD2 | ☉ |   |
|------------------|------|--------------------------------------|------------|----|------|-----|-----|-------------|------|------|--------|------|------|---|---|
| <b>APKT 1604</b> | 16.0 | E90 - APKT16 - D25Z2C20 - L100       | 0091       | 25 | 2    | -   | 100 | Cylindrical | 20   | -    | -      | -    | -    | ● |   |
|                  |      | E90 - APKT16 - D25Z2C20 - L100 - WOC | 0243       | 25 | 2    | 35  | 100 |             | 20   | -    | -      | -    | -    | - | X |
|                  |      | E90 - APKT16 - D25Z2C25 - L250 - WOC | 0557       | 25 | 2    | 100 | 250 |             | 25   | -    | -      | -    | -    | - | X |
|                  |      | E90 - APKT16 - D32Z2C32 - L250 - WOC | 0558       | 32 | 2    | 100 | 250 |             | 32   | -    | -      | -    | -    | - | X |
|                  |      | E90 - APKT16 - D32Z3C25 - L110       | 0094       | 32 | 3    | -   | 110 |             | 25   | -    | -      | -    | -    | - | ● |
|                  |      | E90 - APKT16 - D32Z3C25 - L200       | 0559       | 32 | 3    | 40  | 200 |             | 25   | -    | -      | -    | -    | - | ● |
|                  |      | E90 - APKT16 - D32Z3C32 - L150 - WOC | 0250       | 32 | 3    | 50  | 150 |             | 32   | -    | -      | -    | -    | - | X |
|                  |      | E90 - APKT16 - D32Z3C32 - L250 - WOC | 0560       | 32 | 3    | 100 | 250 |             | 32   | -    | -      | -    | -    | - | X |
|                  |      | E90 - APKT16 - D40Z4C32 - L150 - WOC | 0561       | 40 | 4    | 40  | 150 |             | 32   | -    | -      | -    | -    | - | X |
|                  |      | E90 - APKT16 - D25Z2W25 - L100       | 0562       | 25 | 2    | 35  | 100 |             | 25   | -    | -      | -    | -    | - | ● |
|                  |      | E90 - APKT16 - D25Z2W25 - L110       | 0092       | 25 | 2    | -   | 110 | 25          | -    | -    | -      | -    | -    | ● |   |
|                  |      | E90 - APKT16 - D28Z3W25 - L100       | 0563       | 28 | 3    | 40  | 100 | 25          | -    | -    | -      | -    | -    | ● |   |
|                  |      | E90 - APKT16 - D30Z3W25 - L110       | 0564       | 30 | 3    | 40  | 110 | 25          | -    | -    | -      | -    | -    | ● |   |
|                  |      | E90 - APKT16 - D32Z3W25 - L110       | 0093       | 32 | 3    | -   | 110 | 25          | -    | -    | -      | -    | -    | ● |   |
|                  |      | E90 - APKT16 - D32Z3W32 - L110       | 0565       | 32 | 3    | 40  | 110 | 32          | -    | -    | -      | -    | -    | ● |   |
|                  |      | E90 - APKT16 - D36Z3W32 - L110       | 0566       | 36 | 3    | 40  | 110 | 32          | -    | -    | -      | -    | -    | ● |   |
|                  |      | F90 - APKT16 - D40Z4S16              | 0275       | 40 | 4    | -   | 40  | 16          | 20   | 36   | -      | -    | -    | ● |   |
|                  |      | F90 - APKT16 - D50Z5S22              | 0095       | 50 | 5    | -   | 40  | 22          | 20   | 45   | -      | -    | -    | ● |   |

▶ NEXT PAGE

Milling - Shoulder Milling - Cutter  
**Cutters for APKT**

铣削 - 方肩铣削 - 刀杆  
**刀杆为APKT**

Cutting Angle(切削角) : 90°  
2 Corner Positive(刀尖 正角型)



ZEFP : Effective Number of Cutting Edges  
CICT : Number of Inserts  
CBDP : Connection Bore Depth

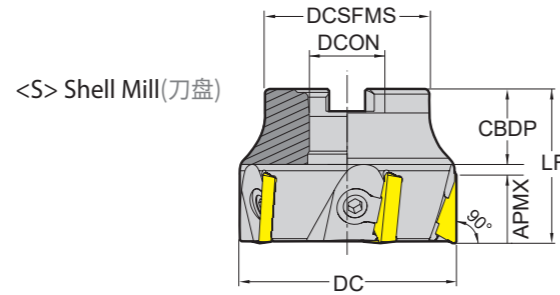
ZEFP : 有效刃数  
CICT : 刀片数  
CBDP : 刀柄连接孔深度

□: p. 126 Unit(单位):mm

| Series           | APMX | Designation                     | EDP 1700.. | DC  | ZEFP | LU | LF | TYPE      | DCON / TDZ | CBDP | DCSFMS | PCD1  | PCD2 | ☉ |
|------------------|------|---------------------------------|------------|-----|------|----|----|-----------|------------|------|--------|-------|------|---|
| <b>APKT 1604</b> | 16.0 | F90 - APKT16 - D52Z5S22         | 0567       | 52  | 5    | -  | 40 | Shellmill | 22         | 22   | 42     | -     | -    | ● |
|                  |      | F90 - APKT16 - D63Z6S22         | 0096       | 63  | 6    | -  | 40 |           | 22         | 20   | 50     | -     | -    | ● |
|                  |      | F90 - APKT16 - D80Z7S27         | 0097       | 80  | 7    | -  | 50 |           | 27         | 23   | 56     | -     | -    | ● |
|                  |      | F90 - APKT16 - D100Z8S32        | 0181       | 100 | 8    | -  | 50 |           | 32         | 26   | 65     | -     | -    | ● |
|                  |      | F90 - APKT16 - D125Z9S40 - WOC  | 0238       | 125 | 9    | -  | 63 |           | 40         | 32   | 80     | -     | -    | X |
|                  |      | F90 - APKT16 - D160Z10S40 - WOC | 0568       | 160 | 10   | -  | 63 |           | 40         | 32   | 110    | 66.7  | -    | X |
|                  |      | F90 - APKT16 - D200Z12S60 - WOC | 0569       | 200 | 12   | -  | 63 |           | 60         | 40   | 130    | 101.6 | -    | X |
|                  |      | M90 - APKT16 - D25Z2M12         | 0570       | 25  | 2    | -  | 43 |           | M12        | -    | 21     | -     | -    | ● |
|                  |      | M90 - APKT16 - D32Z3M16         | 0571       | 32  | 3    | -  | 43 |           | M16        | -    | 29     | -     | -    | ● |
|                  |      | M90 - APKT16 - D42Z4M16         | 0572       | 42  | 4    | -  | 43 |           | M16        | -    | 29     | -     | -    | ● |

Milling - Shoulder Milling - Cutter 铣削 - 方肩铣削 - 刀杆  
**Cutters for TPKN, TPKR, TPCN, TPUN 刀杆为TPKN, TPKR, TPCN, TPUN**

Cutting Angle(切削角) : 90°  
 3 Corner Positive(刀尖正角型) ISO

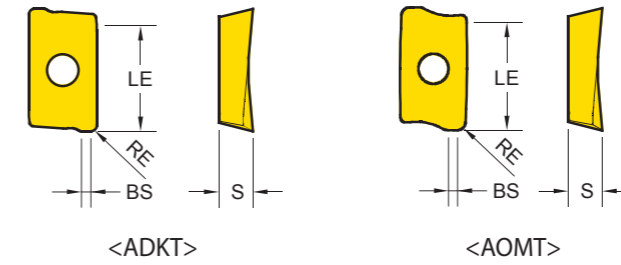


ZEPF : Effective Number of Cutting Edges ZEPF : 有效刃数  
 CICT : Number of Inserts CICT : 刀片数  
 CDBP : Connection Bore Depth CDBP : 刀柄连接孔深度

□: p. 129/130 Unit(单位):mm

| Series                               | APMX | Designation               | EDP 1700.. | DC  | ZEPF | LU | LF | TYPE      | DCON | CDBP | DCSFMS | PCD1  | PCD2  | ☉ |
|--------------------------------------|------|---------------------------|------------|-----|------|----|----|-----------|------|------|--------|-------|-------|---|
| TPKN<br>TPKR<br>TPCN<br>TPUN<br>1603 | 12.0 | F90-TPKN16-D50Z4S22-WOC   | 0618       | 50  | 4    | -  | 40 | Shellmill | 22   | 22   | 42     | -     | -     | X |
|                                      |      | F90-TPKN16-D63Z6S22-WOC   | 0619       | 63  | 6    | -  | 45 |           | 22   | 22   | 48     | -     | -     | X |
|                                      |      | F90-TPKN16-D80Z7S27-WOC   | 0620       | 80  | 7    | -  | 50 |           | 27   | 25   | 58     | -     | -     | X |
|                                      |      | F90-TPKN16-D125Z8S40-WOC  | 0621       | 125 | 8    | -  | 63 |           | 40   | 32   | 80     | -     | -     | X |
| TPKN<br>TPKR<br>TPCN<br>TPUN<br>2204 | 18.0 | F90-TPKN22-D63Z5S22-WOC   | 0622       | 63  | 5    | -  | 45 | Shellmill | 22   | 22   | 48     | -     | -     | X |
|                                      |      | F90-TPKN22-D80Z6S27-WOC   | 0623       | 80  | 6    | -  | 50 |           | 27   | 25   | 58     | -     | -     | X |
|                                      |      | F90-TPKN22-D100Z7S32-WOC  | 0624       | 100 | 7    | -  | 50 |           | 32   | 26   | 65     | -     | -     | X |
|                                      |      | F90-TPKN22-D125Z8S40-WOC  | 0625       | 125 | 8    | -  | 63 |           | 40   | 32   | 80     | -     | -     | X |
|                                      |      | F90-TPKN22-D160Z9S40-WOC  | 0626       | 160 | 9    | -  | 63 |           | 40   | 32   | 110    | 66.7  | -     | X |
|                                      |      | F90-TPKN22-D200Z12S60-WOC | 0627       | 200 | 12   | -  | 63 |           | 60   | 40   | 130    | 101.6 | -     | X |
|                                      |      | F90-TPKN22-D250Z15S60-WOC | 0628       | 250 | 15   | -  | 63 |           | 60   | 40   | 160    | 101.6 | -     | X |
|                                      |      | F90-TPKN22-D315Z18S60-WOC | 0629       | 315 | 18   | -  | 63 |           | 60   | 40   | 220    | 101.6 | 177.8 | X |

Milling - Shoulder Milling - Inserts 铣削 - 方肩铣削 - 刀片  
**ADKT / AOMT - Shoulder Milling Positive (2 Corner) ADKT/AOMT - 方肩铣削 正角型 (2刀尖)**



| Series    | LE   | IC  | S   |
|-----------|------|-----|-----|
| ADKT 1505 | 13.7 | 9.7 | 5.8 |
| AOMT 1236 | 10.5 | 6.6 | 3.6 |

●: Stock item 常备库存  
 ○: Order made item 按订单生产

EDP 1200..

| P25 | P30 | P20 | P40 |
|-----|-----|-----|-----|
| M30 |     |     | M35 |
| K30 | K30 |     | K15 |
| S20 |     | S30 | H15 |

| ADKT             | Designation      | RE (mm) | Fz (mm/tooth) | BS (mm) | YG602  | YG622 | YG712 | YG603 | YG501 | YG5020 |
|------------------|------------------|---------|---------------|---------|--------|-------|-------|-------|-------|--------|
| ADKT General 通用型 | ADKT 150508 PDTR | 0.8     | 0.16~0.30     | 1.87    | ● 0220 |       |       |       |       |        |

| AOMT             | Designation      | RE (mm) | Fz (mm/tooth) | BS (mm) | YG602  | YG622 | YG712 | YG603 | YG501 | YG5020 |
|------------------|------------------|---------|---------------|---------|--------|-------|-------|-------|-------|--------|
| AOMT General 通用型 | AOMT 123604 PDTR | 0.4     | 0.08~0.22     | 1.07    | ● 0217 |       |       |       |       |        |
|                  | AOMT 123608 PDTR | 0.8     | 0.08~0.24     | 0.91    | ● 0218 |       |       |       |       |        |

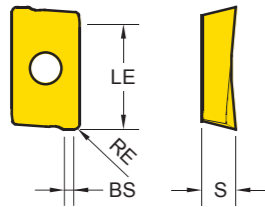
| ISO | VDI   | Sub Group 分组                      | Cutting Speed 切削速度 Vc (m/min.) |     |       |     |       |     |       |     |       |     |        |     |
|-----|-------|-----------------------------------|--------------------------------|-----|-------|-----|-------|-----|-------|-----|-------|-----|--------|-----|
|     |       |                                   | YG602                          |     | YG622 |     | YG712 |     | YG603 |     | YG501 |     | YG5020 |     |
|     |       |                                   | Min                            | Max | Min   | Max | Min   | Max | Min   | Max | Min   | Max | Min    | Max |
| P   | 1~5   | Non-Alloyed Steel 非合金钢            | 140                            | 380 | 140   | 400 | 170   | 300 | 90    | 230 | -     | -   | -      | -   |
|     | 6~9   | Low-Alloyed Steel 低合金钢            | 120                            | 300 | 120   | 320 | 180   | 250 | 70    | 210 | -     | -   | -      | -   |
|     | 10~11 | High-Alloyed Steel 高合金钢           | 70                             | 150 | 70    | 170 | 100   | 140 | 60    | 100 | -     | -   | -      | -   |
| M   | 12~13 | Ferritic & Martensitic 铁素体&马氏体不锈钢 | 120                            | 200 | -     | -   | -     | -   | 80    | 180 | -     | -   | -      | -   |
|     | 14    | Austenitic Stainless Steel 奥氏体不锈钢 | 130                            | 250 | -     | -   | -     | -   | 100   | 200 | -     | -   | -      | -   |
| K   | 15~16 | Grey Cast Iron 灰铸铁                | 120                            | 250 | 120   | 270 | -     | -   | -     | -   | 180   | 350 | 200    | 350 |
|     | 17~18 | Nodular Cast Iron 球墨铸铁            | 130                            | 220 | 130   | 240 | -     | -   | -     | -   | 120   | 270 | 150    | 300 |
| N   | 21~30 | Non-Ferrous Metals (Al) 非铁金属      | -                              | -   | -     | -   | -     | -   | -     | -   | -     | -   | -      | -   |
| S   | 31~37 | Superalloys & Titanium 超耐热合金&钛合金  | 25                             | 45  | -     | -   | -     | -   | 20    | 40  | -     | -   | -      | -   |
| H   | 38~41 | Hard Materials 高硬材料               | 40                             | 80  | 40    | 100 | -     | -   | -     | -   | 50    | 90  | -      | -   |



Milling - Shoulder Milling - Inserts  
**APKT - Shoulder Milling Positive (2 Corner)**

铣削 - 方肩铣削 - 刀片

**APKT - 方肩铣削 正角型 (2刀尖)**



| Series    | LE   | IC  | S   |
|-----------|------|-----|-----|
| APKT 1003 | 9.9  | 6.7 | 3.6 |
| APKT 1604 | 15.2 | 9.4 | 5.3 |

EDP 1200..

| P25 | P30 | P20 | P40 |
|-----|-----|-----|-----|
| M30 |     |     | M35 |
| K30 | K30 |     | K15 |
| S20 |     | S30 | H15 |

●: Stock item 常备库存  
○: Order made item 按订单生产

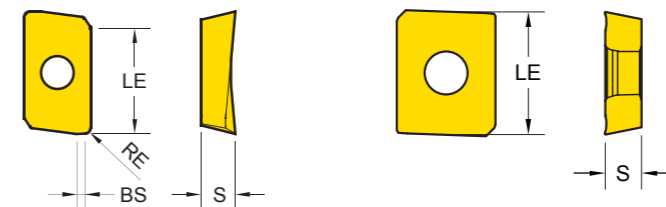
| APKT  | Designation      | RE (mm) | Fz (mm/tooth) | BS (mm) | YG602 | YG622 | YG712 | YG603 | YG501 | YG5020 |
|---|------------------|---------|---------------|---------|-------|-------|-------|-------|-------|--------|
| APKT<br>General<br>通用型                                | APKT 100305 PDTR | 0.5     | 0.15~0.24     | 0.86    | ●0005 |       |       |       |       |        |
|   | APKT 100308 PDTR | 0.8     | 0.15~0.24     | 0.9     | ●0004 |       |       |       |       |        |
|   | APKT 160404 PDTR | 0.4     | 0.15~0.25     | 1.11    | ●0003 |       |       |       |       |        |
|   | APKT 160408 PDTR | 0.8     | 0.15~0.30     | 1.32    | ●0001 |       |       |       |       |        |
|   | APKT 160412 PDTR | 1.2     | 0.15~0.32     | 1.13    | ●0002 |       |       |       |       |        |
|   | APKT 160416 PDTR | 1.6     | 0.15~0.34     | 1.13    | ●0006 |       |       |       |       |        |
|   | APKT 160424 PDTR | 2.4     | 0.15~0.38     |         | ●0255 |       |       |       |       |        |
| -ST<br>Stainless Steel<br>Super Alloy<br>不锈钢<br>超耐热合金 | APKT 100305 - ST | 0.5     | 0.08~0.22     | 0.86    | ●0278 |       |       |       |       |        |
|   | APKT 160408 - ST | 0.8     | 0.08~0.25     | 1.32    | ●0270 |       |       |       |       |        |
| -TR<br>Hardened<br>Steel<br>高硬度钢件                     | APKT 160404 - TR | 0.4     | 0.26~0.40     | 2.12    | ●0492 | ●0505 |       |       |       |        |
|   | APKT 160408 - TR | 0.8     | 0.26~0.40     | 1.32    | ●0256 | ●0337 |       |       |       |        |
|   | APKT 160412 - TR | 1.2     | 0.26~0.40     | 2.4     | ●0493 | ●0523 |       |       |       |        |
|   | APKT 160416 - TR | 1.6     | 0.26~0.40     | 2.4     | ●0472 | ●0524 |       |       |       |        |
|   | APKT 160424 - TR | 2.4     | 0.26~0.40     | 1.5     | ●0494 | ●0520 |       |       |       |        |

| Cutting Speed 切削速度 |       |                                   | Vc (m/min.) |     |       |     |       |     |       |     |       |     |        |     |
|--------------------|-------|-----------------------------------|-------------|-----|-------|-----|-------|-----|-------|-----|-------|-----|--------|-----|
| ISO                | VDI   | Sub Group 分组                      | YG602       |     | YG622 |     | YG712 |     | YG603 |     | YG501 |     | YG5020 |     |
|                    |       |                                   | Min         | Max | Min   | Max | Min   | Max | Min   | Max | Min   | Max | Min    | Max |
| P                  | 1~5   | Non-Alloyed Steel 非合金钢            | 140         | 380 | 140   | 400 | 170   | 300 | 90    | 230 | -     | -   | -      | -   |
|                    | 6~9   | Low-Alloyed Steel 低合金钢            | 120         | 300 | 120   | 320 | 180   | 250 | 70    | 210 | -     | -   | -      | -   |
|                    | 10~11 | High-Alloyed Steel 高合金钢           | 70          | 150 | 70    | 170 | 100   | 140 | 60    | 100 | -     | -   | -      | -   |
| M                  | 12~13 | Ferritic & Martensitic 铁素体&马氏体不锈钢 | 120         | 200 | -     | -   | -     | -   | 80    | 180 | -     | -   | -      | -   |
|                    | 14    | Austenitic Stainless Steel 奥氏体不锈钢 | 130         | 250 | -     | -   | -     | -   | 100   | 200 | -     | -   | -      | -   |
| K                  | 15~16 | Grey Cast Iron 灰铸铁                | 120         | 250 | 120   | 270 | -     | -   | -     | -   | 180   | 350 | 200    | 350 |
|                    | 17~18 | Nodular Cast Iron 球墨铸铁            | 130         | 220 | 130   | 240 | -     | -   | -     | -   | 120   | 270 | 150    | 300 |
| N                  | 21~30 | Non-Ferrous Metals (Al) 非铁金属      | -           | -   | -     | -   | -     | -   | -     | -   | -     | -   | -      | -   |
| S                  | 31~37 | Superalloys & Titanium 超耐热合金&钛合金  | 25          | 45  | -     | -   | -     | -   | 20    | 40  | -     | -   | -      | -   |
| H                  | 38~41 | Hard Materials 高硬材料               | 40          | 80  | 40    | 100 | -     | -   | -     | -   | 50    | 90  | -      | -   |

Milling - Shoulder Milling - Inserts  
**APMT - Shoulder Milling Positive (2 Corner)**

铣削 - 方肩铣削 - 刀片

**APMT - 方肩铣削 正角型 (2刀尖)**



| Series    | LE   | IC   | S    |
|-----------|------|------|------|
| APMT 1135 | 9.5  | 6.2  | 3.5  |
| APMT 1604 | 14.6 | 9.2  | 4.76 |
| APMT 1504 | 14   | 12.7 | 4.76 |

EDP 1200..

| P25 | P30 | P20 | P40 |
|-----|-----|-----|-----|
| M30 |     |     | M35 |
| K30 | K30 |     | K15 |
| S20 |     | S30 | H15 |

●: Stock item 常备库存  
○: Order made item 按订单生产

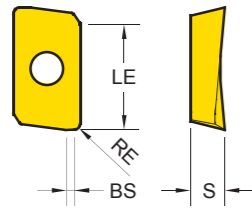
| APMT                           | Designation      | RE (mm) | Fz (mm/tooth) | BS (mm) | YG602 | YG622 | YG712 | YG603 | YG501 | YG5020 |
|--------------------------------|------------------|---------|---------------|---------|-------|-------|-------|-------|-------|--------|
| APMT<br>General<br>通用型         | APMT 113504 PDTR | 0.4     | 0.15~0.22     | 1.26    | ●0009 |       |       |       |       |        |
|                                | APMT 113508 PDTR | 0.8     | 0.15~0.25     | 1.07    | ●0010 |       |       |       |       |        |
|                                | APMT 160408 PDTR | 0.8     | 0.16~0.30     | 1.11    | ●0008 |       | ●0423 | ●0465 | ●0464 |        |
| APMT<br>1504<br>General<br>通用型 | APMT 1504        |         | 0.14~0.28     |         | ●0276 | ●0445 |       |       |       |        |

| Cutting Speed 切削速度 |       |                                   | Vc (m/min.) |     |       |     |       |     |       |     |       |     |        |     |
|--------------------|-------|-----------------------------------|-------------|-----|-------|-----|-------|-----|-------|-----|-------|-----|--------|-----|
| ISO                | VDI   | Sub Group 分组                      | YG602       |     | YG622 |     | YG712 |     | YG603 |     | YG501 |     | YG5020 |     |
|                    |       |                                   | Min         | Max | Min   | Max | Min   | Max | Min   | Max | Min   | Max | Min    | Max |
| P                  | 1~5   | Non-Alloyed Steel 非合金钢            | 140         | 380 | 140   | 400 | 170   | 300 | 90    | 230 | -     | -   | -      | -   |
|                    | 6~9   | Low-Alloyed Steel 低合金钢            | 120         | 300 | 120   | 320 | 180   | 250 | 70    | 210 | -     | -   | -      | -   |
|                    | 10~11 | High-Alloyed Steel 高合金钢           | 70          | 150 | 70    | 170 | 100   | 140 | 60    | 100 | -     | -   | -      | -   |
| M                  | 12~13 | Ferritic & Martensitic 铁素体&马氏体不锈钢 | 120         | 200 | -     | -   | -     | -   | 80    | 180 | -     | -   | -      | -   |
|                    | 14    | Austenitic Stainless Steel 奥氏体不锈钢 | 130         | 250 | -     | -   | -     | -   | 100   | 200 | -     | -   | -      | -   |
| K                  | 15~16 | Grey Cast Iron 灰铸铁                | 120         | 250 | 120   | 270 | -     | -   | -     | -   | 180   | 350 | 200    | 350 |
|                    | 17~18 | Nodular Cast Iron 球墨铸铁            | 130         | 220 | 130   | 240 | -     | -   | -     | -   | 120   | 270 | 150    | 300 |
| N                  | 21~30 | Non-Ferrous Metals (Al) 非铁金属      | -           | -   | -     | -   | -     | -   | -     | -   | -     | -   | -      | -   |
| S                  | 31~37 | Superalloys & Titanium 超耐热合金&钛合金  | 25          | 45  | -     | -   | -     | -   | 20    | 40  | -     | -   | -      | -   |
| H                  | 38~41 | Hard Materials 高硬材料               | 40          | 80  | 40    | 100 | -     | -   | -     | -   | 50    | 90  | -      | -   |

Milling - Shoulder Milling - Inserts  
**APXT** - Shoulder Milling Positive (2 Corner)

铣削 - 方肩铣削 - 刀片

**APXT** - 方肩铣削 正角型 (2刀尖)



| Series    | LE   | IC  | S   |
|-----------|------|-----|-----|
| APXT 1604 | 14.6 | 9.2 | 4.8 |

EDP 1200..

| P25 | P30 | P20 | P40 |
|-----|-----|-----|-----|
| M30 |     |     | M35 |
| K30 | K30 |     | K15 |
| S20 |     | S30 | H15 |
|     |     |     | N15 |

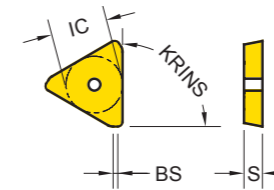
●: Stock item 常备库存  
○: Order made item 按订单生产

| APXT             | Designation     | RE (mm) | Fz (mm/tooth) | BS (mm) | YG602 | YG622 | YG712 | YG603 | YG501 | YG5020 | YG50   |
|------------------|-----------------|---------|---------------|---------|-------|-------|-------|-------|-------|--------|--------|
| -AL<br>Aluminium | APXT 160408 -AL | 0.8     | 0.1 ~ 1.3     | 1.75    |       |       |       |       |       |        | ○ 0528 |

Milling - Shoulder Milling - Inserts

铣削 - 方肩铣削 - 刀片

**TPKN / KR / CN** - Shoulder Milling Positive (3 Corner ISO) **TPKN/KR/CN** - 方肩铣削 正角型 (3刀尖 ISO)



| Series    | KR/INS | IC   | S    |
|-----------|--------|------|------|
| TP** 1603 | 90°    | 9.53 | 3.18 |
| TP** 2204 | 90°    | 12.7 | 4.76 |

EDP 1200..

| P25 | P30 | P20 | P40 |
|-----|-----|-----|-----|
| M30 |     |     | M35 |
| K30 | K30 |     | K15 |
| S20 |     | S30 | H15 |
|     |     |     | K15 |

●: Stock item 常备库存  
○: Order made item 按订单生产

| TPKR TPKN TPCN                     | Designation        | RE (mm) | Fz (mm/tooth) | BS (mm) | YG602  | YG622 | YG712  | YG603 | YG501 | YG5020 |
|------------------------------------|--------------------|---------|---------------|---------|--------|-------|--------|-------|-------|--------|
| TPKR<br>General<br>通用型             | TPKR 1603 PDTR     |         | 0.15 ~ 0.28   | 1.2     | ● 0060 |       |        |       |       |        |
|                                    | TPKR 1603 PDTR -PW |         | 0.11 ~ 0.20   | 1.2     | ● 0300 |       |        |       |       |        |
|                                    | TPKR 2204 PDTR     |         | 0.18 ~ 0.35   | 1.7     | ● 0061 |       |        |       |       |        |
| TPKN<br>Hard<br>Materials<br>高硬度材料 | TPKR 2204 PDTR -PW |         | 0.18 ~ 0.35   | 1.7     | ● 0301 |       |        |       |       |        |
|                                    | TPKN 1603 PDTR     |         | 0.15 ~ 0.30   | 1.2     | ● 0062 |       |        |       |       |        |
|                                    | TPKN 1603 PDTR -PW |         | 0.15 ~ 0.28   | 1.2     | ● 0302 |       |        |       |       |        |
|                                    | TPKN 1603 PDTR -GW |         | 0.15 ~ 0.3    | 1.62    | ● 0306 |       |        |       |       |        |
|                                    | TPKN 2204 PDTR     |         | 0.17 ~ 0.30   | 1.7     | ● 0063 |       |        |       |       |        |
|                                    | TPKN 2204 PDTR -PW |         | 0.24 ~ 0.40   | 1.7     | ● 0303 |       |        |       |       |        |
| TPCN<br>Ground insert<br>无槽型       | TPKN 2204 PDTR -GW |         | 0.24 ~ 0.4    | 2.49    | ● 0307 |       |        |       |       |        |
|                                    | TPCN 2204 PDSR -M  |         | 0.05 ~ 0.2    | 1.76    |        |       | ● 0180 |       |       |        |
|                                    | TPCN 2204 PDSR -MR |         | 0.05 ~ 0.2    | 1.76    |        |       | ● 0202 |       |       |        |

- PW : for Improved Surface Roughness - PW : 提高表面粗糙度  
- GW : Ground Wiper - GW : 修光刃  
- M : for Mold & Die - M : 用于模具工件  
- MR : for Mold & Die Roughing - MR : 用于模具工件粗加工

| Cutting Speed 切削速度 |       |              |     | Vc (m/min.) |     |       |     |       |     |       |     |       |     |        |     |      |     |
|--------------------|-------|--------------|-----|-------------|-----|-------|-----|-------|-----|-------|-----|-------|-----|--------|-----|------|-----|
| ISO                | VDI   | Sub Group 分组 |     | YG602       |     | YG622 |     | YG712 |     | YG603 |     | YG501 |     | YG5020 |     | YG50 |     |
|                    |       | Min          | Max | Min         | Max | Min   | Max | Min   | Max | Min   | Max | Min   | Max | Min    | Max | Min  | Max |
| P                  | 1~5   | 140          | 380 | 140         | 400 | 170   | 300 | 90    | 230 | -     | -   | -     | -   | -      | -   | -    | -   |
|                    | 6~9   | 120          | 300 | 120         | 320 | 180   | 250 | 70    | 210 | -     | -   | -     | -   | -      | -   | -    | -   |
|                    | 10~11 | 70           | 150 | 70          | 170 | 100   | 140 | 60    | 100 | -     | -   | -     | -   | -      | -   | -    | -   |
| M                  | 12~13 | 120          | 200 | -           | -   | -     | -   | 80    | 180 | -     | -   | -     | -   | -      | -   | -    | -   |
|                    | 14    | 130          | 250 | -           | -   | -     | -   | 100   | 200 | -     | -   | -     | -   | -      | -   | -    | -   |
| K                  | 15~16 | 120          | 250 | 120         | 270 | -     | -   | -     | -   | 180   | 350 | 200   | 350 | -      | -   | -    | -   |
|                    | 17~18 | 130          | 220 | 130         | 240 | -     | -   | -     | -   | 120   | 270 | 150   | 300 | -      | -   | -    | -   |
| N                  | 21~30 | -            | -   | -           | -   | -     | -   | -     | -   | -     | -   | -     | -   | 300    | 800 | -    | -   |
| S                  | 31~37 | 25           | 45  | -           | -   | -     | -   | 20    | 40  | -     | -   | -     | -   | -      | -   | -    | -   |
| H                  | 38~41 | 40           | 80  | 40          | 100 | -     | -   | -     | -   | 50    | 90  | -     | -   | -      | -   | -    | -   |

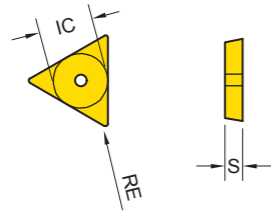
| Cutting Speed 切削速度 |       |              |     | Vc (m/min.) |     |       |     |       |     |       |     |       |     |        |     |
|--------------------|-------|--------------|-----|-------------|-----|-------|-----|-------|-----|-------|-----|-------|-----|--------|-----|
| ISO                | VDI   | Sub Group 分组 |     | YG602       |     | YG622 |     | YG712 |     | YG603 |     | YG501 |     | YG5020 |     |
|                    |       | Min          | Max | Min         | Max | Min   | Max | Min   | Max | Min   | Max | Min   | Max | Min    | Max |
| P                  | 1~5   | 140          | 380 | 140         | 400 | 170   | 300 | 90    | 230 | -     | -   | -     | -   | -      | -   |
|                    | 6~9   | 120          | 300 | 120         | 320 | 180   | 250 | 70    | 210 | -     | -   | -     | -   | -      | -   |
|                    | 10~11 | 70           | 150 | 70          | 170 | 100   | 140 | 60    | 100 | -     | -   | -     | -   | -      | -   |
| M                  | 12~13 | 120          | 200 | -           | -   | -     | -   | 80    | 180 | -     | -   | -     | -   | -      | -   |
|                    | 14    | 130          | 250 | -           | -   | -     | -   | 100   | 200 | -     | -   | -     | -   | -      | -   |
| K                  | 15~16 | 120          | 250 | 120         | 270 | -     | -   | -     | -   | 180   | 350 | 200   | 350 | -      | -   |
|                    | 17~18 | 130          | 220 | 130         | 240 | -     | -   | -     | -   | 120   | 270 | 150   | 300 | -      | -   |
| N                  | 21~30 | -            | -   | -           | -   | -     | -   | -     | -   | -     | -   | -     | -   | -      | -   |
| S                  | 31~37 | 25           | 45  | -           | -   | -     | -   | 20    | 40  | -     | -   | -     | -   | -      | -   |
| H                  | 38~41 | 40           | 80  | 40          | 100 | -     | -   | -     | -   | 50    | 90  | -     | -   | -      | -   |

Milling - Shoulder Milling - Inserts  
**TPUN** - Universal Positive (3 Corners ISO)

铣削 - 方肩铣削 - 刀片

**TPUN** - 方肩铣削正角型 (3刀尖 ISO)

| Series    | IC   | S    |
|-----------|------|------|
| TPUN 1603 | 9.53 | 3.18 |



EDP 1200..

| P25 | P30 | P20 | P40 |
|-----|-----|-----|-----|
| M30 |     |     | M35 |
| K30 | K30 |     | K15 |
| S20 |     | S30 | H15 |

● : Stock item 常备库存  
 ○ : Order made item 按订单生产

| TPUN | Designation | RE (mm) | Fz (mm/tooth) | BS (mm) | YG602  | YG622 | YG712 | YG603 | YG501 | YG5020 |
|------|-------------|---------|---------------|---------|--------|-------|-------|-------|-------|--------|
|      | TPUN 160308 | 0.8     | 0.08 ~ 0.15   |         | ● 0064 |       |       |       |       |        |

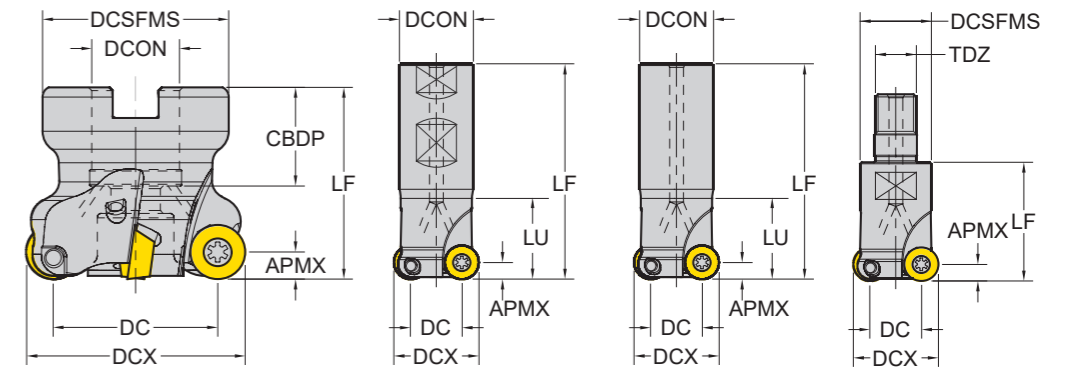


| Cutting Speed 切削速度 |       | Vc (m/min.)                       |       |     |       |     |       |     |       |     |       |     |        |     |
|--------------------|-------|-----------------------------------|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|--------|-----|
| ISO                | VDI   | Sub Group 分组                      | YG602 |     | YG622 |     | YG712 |     | YG603 |     | YG501 |     | YG5020 |     |
|                    |       |                                   | Min   | Max | Min   | Max | Min   | Max | Min   | Max | Min   | Max | Min    | Max |
| P                  | 1~5   | Non-Alloyed Steel 非合金钢            | 140   | 380 | 140   | 400 | 170   | 300 | 90    | 230 | -     | -   | -      | -   |
|                    | 6~9   | Low-Alloyed Steel 低合金钢            | 120   | 300 | 120   | 320 | 180   | 250 | 70    | 210 | -     | -   | -      | -   |
|                    | 10~11 | High-Alloyed Steel 高合金钢           | 70    | 150 | 70    | 170 | 100   | 140 | 60    | 100 | -     | -   | -      | -   |
| M                  | 12~13 | Ferritic & Martensitic 铁素体&马氏体不锈钢 | 120   | 200 | -     | -   | -     | -   | 80    | 180 | -     | -   | -      | -   |
|                    | 14    | Austenitic Stainless Steel 奥氏体不锈钢 | 130   | 250 | -     | -   | -     | -   | 100   | 200 | -     | -   | -      | -   |
| K                  | 15~16 | Grey Cast Iron 灰铸铁                | 120   | 250 | 120   | 270 | -     | -   | -     | -   | 180   | 350 | 200    | 350 |
|                    | 17~18 | Nodular Cast Iron 球墨铸铁            | 130   | 220 | 130   | 240 | -     | -   | -     | -   | 120   | 270 | 150    | 300 |
| N                  | 21~30 | Non-Ferrous Metals (Al) 非铁金属      | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | -      | -   |
| S                  | 31~37 | Superalloys & Titanium 超耐热合金&钛合金  | 25    | 45  | -     | -   | -     | -   | 20    | 40  | -     | -   | -      | -   |
| H                  | 38~41 | Hard Materials 高硬材料               | 40    | 80  | 40    | 100 | -     | -   | -     | -   | 50    | 90  | -      | -   |

Milling - Profiling - Cutter  
**Cutters for RDKT, RDKW**

铣削 - 仿形铣削 - 刀杆  
 刀杆为RDKT, RDKW

Round Positive <S> Shell Mill (刀盘) <W> Weldon (侧固) <C> Cylindrical (直柄) <M> Modular (侧固)

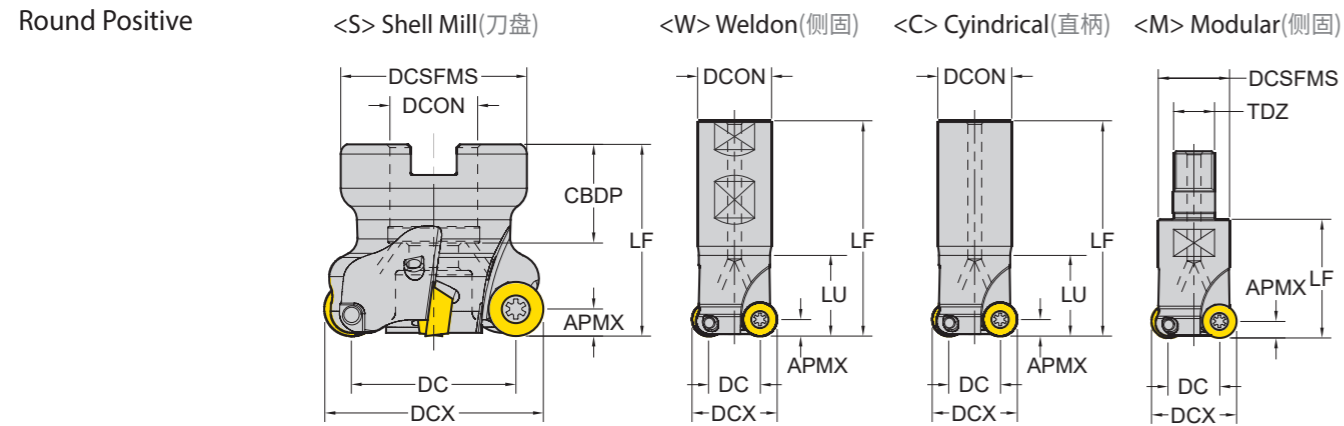


ZEFP: Effective Number of Cutting Edges ZEFP: 有效刃数  
 CDBP: Connection Bore Depth CDBP: 刀柄连接孔深度  
 □: p. 133 Unit (单位): mm

| Series                | APMX | Designation                        | EDP 1700.. | DC | DCX | ZEFP | LU      | LF  | TYPE        | DCON / TDZ | CDBP | DCSFMS | ● |
|-----------------------|------|------------------------------------|------------|----|-----|------|---------|-----|-------------|------------|------|--------|---|
| RDKT<br>RDKW<br>0802  | 4.0  | E - RDKT08 - D16Z2C16 - L160       | 0005       | 8  | 16  | 2    | -       | 160 | Cylindrical | 16         | -    | -      | ● |
|                       |      | E - RDKT08 - D20Z2C20 - L180       | 0007       | 12 | 20  | 2    | -       | 180 |             | 20         | -    | -      | ● |
|                       |      | E - RDKT08 - D25Z3C20 - L180       | 0009       | 17 | 25  | 3    | -       | 180 |             | 20         | -    | -      | ● |
|                       |      | M - RDKT08 - D16Z2M08              | 0010       | 8  | 16  | 2    | -       | 23  | Modular     | M08        | -    | 13     | ● |
|                       |      | M - RDKT08 - D20Z2M10              | 0011       | 12 | 20  | 2    | -       | 30  |             | M10        | -    | 18     | ● |
| M - RDKT08 - D25Z3M12 | 0012 | 17                                 | 25         | 3  | -   | 35   | M12     | -   | 21          | ●          |      |        |   |
| RDKT<br>RDKW<br>10T3  | 5.0  | E - RDKT10 - D20Z2C20 - L150 - WOC | 0576       | 10 | 20  | 2    | 60      | 150 | Cylindrical | 20         | -    | -      | X |
|                       |      | E - RDKT10 - D20Z2C20 - L180       | 0013       | 10 | 20  | 2    | -       | 180 |             | 20         | -    | -      | ● |
|                       |      | E - RDKT10 - D25Z2C25 - L150 - WOC | 0299       | 15 | 25  | 2    | 60      | 150 |             | 25         | -    | -      | X |
|                       |      | E - RDKT10 - D25Z2C25 - L180       | 0015       | 15 | 25  | 2    | -       | 180 |             | 25         | -    | -      | ● |
|                       |      | E - RDKT10 - D20Z2W20 - L150 - WOC | 0577       | 10 | 20  | 2    | 60      | 150 | Weldon      | 20         | -    | -      | X |
|                       |      | E - RDKT10 - D25Z2W25 - L150 - WOC | 0578       | 15 | 25  | 2    | 60      | 150 |             | 25         | -    | -      | X |
|                       |      | E - RDKT10 - D32Z3W32 - L150 - WOC | 0579       | 22 | 32  | 3    | 60      | 150 | 32          | -          | -    | X      |   |
|                       |      | F - RDKT10 - D40Z5S16              | 0019       | 30 | 40  | 5    | -       | 40  | Shellmill   | 16         | 18   | 34     | ● |
|                       |      | F - RDKT10 - D50Z5S22              | 0580       | 40 | 50  | 5    | -       | 50  |             | 22         | 22   | 42     | ● |
|                       |      | F - RDKT10 - D50Z6S22              | 0020       | 40 | 50  | 6    | -       | 50  |             | 22         | 22   | 42     | ● |
| F - RDKT10 - D63Z6S22 | 0581 | 53                                 | 63         | 6  | -   | 50   | 22      | 22  | 48          | ●          |      |        |   |
| M - RDKT10 - D20Z2M10 | 0017 | 10                                 | 20         | 2  | -   | 30   | Modular | M10 | -           | 18         | ●    |        |   |
| M - RDKT10 - D25Z3M12 | 0018 | 15                                 | 25         | 3  | -   | 35   |         | M12 | -           | 21         | ●    |        |   |

Milling - Profiling - Cutter  
Cutters for RDKT, RDKW

铣削 - 仿形铣削 - 刀杆  
刀杆为RDKT, RDKW



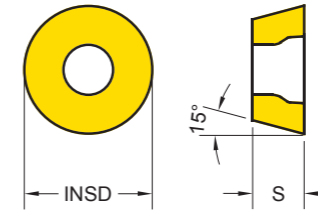
ZEFP : Effective Number of Cutting Edges ZEFP : 有效刃数  
CDBP : Connection Bore Depth CDBP : 刀柄连接孔深度

□: p. 133 Unit(单位):mm

| Series              | APMX                  | Designation                        | EDP 1700.. | DC | DCX | ZEFP | LU | LF  | TYPE        | DCON /TDZ | CDBP | DCSFMS | ● |
|---------------------|-----------------------|------------------------------------|------------|----|-----|------|----|-----|-------------|-----------|------|--------|---|
| RDKT<br>RDKW<br>6.0 |                       | E - RDKT12 - D25Z2C25 - L180       | 0021       | 13 | 25  | 2    | -  | 180 | Cylindrical | 25        | -    | -      | ● |
|                     |                       | E - RDKT12 - D32Z2C32 - L200       | 0023       | 20 | 32  | 2    | -  | 200 |             | 32        | -    | -      | ● |
|                     |                       | E - RDKT12 - D32Z3C32 - L160       | 0024       | 20 | 32  | 3    | -  | 160 |             | 32        | -    | -      | ● |
|                     |                       | E - RDKT12 - D32Z3C32 - L160 - WOC | 0582       | 20 | 32  | 3    | 70 | 160 |             | 32        | -    | -      | X |
|                     |                       | E - RDKT12 - D33Z3C32 - L160 - WOC | 0583       | 21 | 33  | 3    | 70 | 160 |             | 32        | -    | -      | X |
|                     |                       | E - RDKT12 - D32Z3W32 - L160 - WOC | 0584       | 20 | 32  | 3    | 50 | 160 | Weldon      | 32        | -    | -      | X |
|                     |                       | F - RDKT12 - D40Z4S16              | 0028       | 28 | 40  | 4    | -  | 40  | Shellmill   | 16        | 18   | 34     | ● |
|                     |                       | F - RDKT12 - D50Z5S22              | 0029       | 38 | 50  | 5    | -  | 50  |             | 22        | 22   | 42     | ● |
|                     |                       | F - RDKT12 - D52Z5S22              | 0585       | 40 | 52  | 5    | -  | 50  |             | 22        | 22   | 42     | ● |
|                     |                       | F - RDKT12 - D63Z6S22              | 0030       | 51 | 63  | 6    | -  | 50  |             | 22        | 20   | 48     | ● |
|                     |                       | F - RDKT12 - D80Z7S27              | 0586       | 68 | 80  | 7    | -  | 50  |             | 27        | 25   | 58     | ● |
|                     |                       | F - RDKT12 - D100Z7S32             | 0587       | 88 | 100 | 7    | -  | 50  |             | 32        | 26   | 65     | ● |
|                     |                       | F - RDKT12 - D100Z8S32             | 0588       | 88 | 100 | 8    | -  | 50  |             | 32        | 26   | 65     | ● |
|                     |                       | M - RDKT12 - D25Z2M12              | 0026       | 13 | 25  | 2    | -  | 35  | Modular     | M12       | -    | 21     | ● |
|                     | M - RDKT12 - D32Z3M16 | 0027                               | 20         | 32 | 3   | -    | 42 | M16 |             | -         | 29   | ●      |   |
|                     | M - RDKT12 - D42Z4M16 | 0589                               | 30         | 42 | 4   | -    | 43 | M16 |             | -         | 29   | ●      |   |

Milling - Profiling - Inserts  
RDKT / W - Profiling Positive (Round)

铣削 - 仿形铣削 - 刀片  
RDKT/W - 仿形铣削 正角型 (圆形)



| Series    | INSD | S   | Series    | INSD | S   |
|-----------|------|-----|-----------|------|-----|
| RDK* 0501 | 5    | 1.4 | RDK* 10T3 | 10   | 4.0 |
| RDK* 0702 | 7    | 2.4 | RDK* 1204 | 12   | 4.8 |
| RDK* 0802 | 8    | 2.4 |           |      |     |

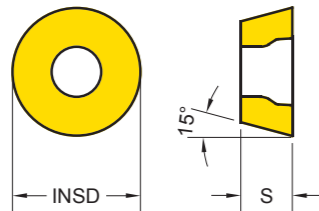
EDP 1200..

| P25 | P30 | P20 | P40 |     |     |
|-----|-----|-----|-----|-----|-----|
| M30 |     |     | M35 |     |     |
| K30 | K30 |     |     | K15 | K15 |
| S20 |     | S30 | H15 |     |     |

●: Stock item 常备库存  
○: Order made item 按订单生产

| RDKT / RDKW   | Designation      | Fz (mm/tooth) | YG602  | YG622  | YG712 | YG603 | YG501 | YG5020 |
|---|------------------|---------------|--------|--------|-------|-------|-------|--------|
| RDKT<br>General<br>通用型                                | RDKT 0802M0      | 0.15~0.25     | ● 0035 |        |       |       |       |        |
|   | RDKT 10T3M0      | 0.15~0.28     | ● 0041 |        |       |       |       |        |
|   | RDKT 1204M0      | 0.20~0.30     | ● 0034 |        |       |       |       |        |
| -ST<br>Stainless Steel<br>Super Alloy<br>不锈钢<br>超耐热合金 | RDKT 0802M0 - ST | 0.08~0.25     | ● 0292 |        |       |       |       |        |
|   | RDKT 10T3M0 - ST | 0.08~0.28     | ● 0293 |        |       |       |       |        |
|   | RDKT 1204M0 - ST | 0.10~0.30     | ● 0294 |        |       |       |       |        |
| -TR<br>Hardened<br>Steel<br>高硬度钢件                     | RDKT 0802M0 - TR | 0.18~0.35     | ● 0284 | ● 0339 |       |       |       |        |
|   | RDKT 10T3M0 - TR | 0.22~0.40     | ● 0285 | ● 0338 |       |       |       |        |
|   | RDKT 1204M0 - TR | 0.22~0.40     | ● 0272 | ● 0340 |       |       |       |        |
| RDKW<br>Hard<br>Materials<br>高硬度材料                    | RDKW 0501M0      | 0.10~0.20     | ● 0207 |        |       |       |       |        |
|   | RDKW 0702M0      | 0.12~0.25     | ● 0208 |        |       |       |       |        |
|   | RDKW 0802M0      | 0.13~0.25     | ● 0043 |        |       |       |       |        |
|   | RDKW 10T3M0      | 0.16~0.30     | ● 0040 |        |       |       |       |        |
|   | RDKW 1204M0      | 0.16~0.35     | ● 0042 |        |       |       |       |        |

| ISO | VDI   | Sub Group<br>分组                   | Cutting Speed 切削速度 |     |       |     |       |     |       |     |       |     |        |     |
|-----|-------|-----------------------------------|--------------------|-----|-------|-----|-------|-----|-------|-----|-------|-----|--------|-----|
|     |       |                                   | YG602              |     | YG622 |     | YG712 |     | YG603 |     | YG501 |     | YG5020 |     |
|     |       |                                   | Min                | Max | Min   | Max | Min   | Max | Min   | Max | Min   | Max | Min    | Max |
| P   | 1~5   | Non-Alloyed Steel 非合金钢            | 140                | 380 | 140   | 400 | 170   | 300 | 90    | 230 | -     | -   | -      | -   |
|     | 6~9   | Low-Alloyed Steel 低合金钢            | 120                | 300 | 120   | 320 | 180   | 250 | 70    | 210 | -     | -   | -      | -   |
|     | 10~11 | High-Alloyed Steel 高合金钢           | 70                 | 150 | 70    | 170 | 100   | 140 | 60    | 100 | -     | -   | -      | -   |
| M   | 12~13 | Ferritic & Martensitic 铁素体&马氏体不锈钢 | 120                | 200 | -     | -   | -     | -   | 80    | 180 | -     | -   | -      | -   |
|     | 14    | Austenitic Stainless Steel 奥氏体不锈钢 | 130                | 250 | -     | -   | -     | -   | 100   | 200 | -     | -   | -      | -   |
| K   | 15~16 | Grey Cast Iron 灰铸铁                | 120                | 250 | 120   | 270 | -     | -   | -     | -   | 180   | 350 | 200    | 350 |
|     | 17~18 | Nodular Cast Iron 球墨铸铁            | 130                | 220 | 130   | 240 | -     | -   | -     | -   | 120   | 270 | 150    | 300 |
| N   | 21~30 | Non-Ferrous Metals (Al) 非铁金属      | -                  | -   | -     | -   | -     | -   | -     | -   | -     | -   | -      | -   |
| S   | 31~37 | Superalloys & Titanium 超耐热合金&钛合金  | 25                 | 45  | -     | -   | -     | -   | 20    | 40  | -     | -   | -      | -   |
| H   | 38~41 | Hard Materials 高硬材料               | 40                 | 80  | 40    | 100 | -     | -   | -     | -   | 50    | 90  | -      | -   |



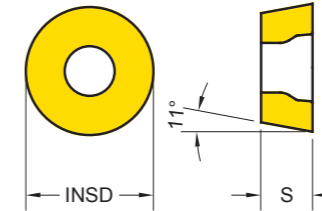
| Series    | INSD | S    | Series    | INSD | S    |
|-----------|------|------|-----------|------|------|
| RDM* 0802 | 8    | 2.38 | RDM* 10T3 | 10   | 3.97 |
| RDM* 0803 | 8    | 3.18 | RDM* 1204 | 12   | 4.76 |

EDP 1200..

| P25 | P30 | P20 | P40 |     |     |
|-----|-----|-----|-----|-----|-----|
| M30 |     |     | M35 |     |     |
| K30 | K30 |     | S30 | H15 | K15 |
| S20 |     |     |     |     |     |

●: Stock item 常备库存  
○: Order made item 按订单生产

| RDMT<br>RDMW                       | Designation | Fz<br>(mm/tooth) | YG602 | YG622 | YG712 | YG603 | YG501 | YG5020 |
|------------------------------------|-------------|------------------|-------|-------|-------|-------|-------|--------|
| RDMT<br>General<br>通用型             | RDMT 0802M0 | 0.15~0.25        | ●     |       |       |       |       |        |
|                                    | RDMT 0803M0 | 0.15~0.25        | ●     |       |       |       |       |        |
|                                    | RDMT 10T3M0 | 0.18~0.28        | ●     |       |       |       |       |        |
|                                    | RDMT 1204M0 | 0.2~0.3          | ●     |       |       |       |       |        |
| RDMW<br>Hard<br>Materials<br>高硬度材料 | RDMW 0802M0 | 0.05~0.15        | ●     |       |       |       |       |        |
|                                    | RDMW 10T3M0 | 0.1~0.25         | ●     |       |       |       |       |        |
|                                    | RDMW 1204M0 | 0.16~0.3         | ●     |       |       |       |       |        |



| Series    | INSD | S    |
|-----------|------|------|
| RPM* 08T2 | 8    | 2.78 |
| RPM* 10T3 | 10   | 3.97 |
| RPM* 1204 | 12   | 4.76 |

EDP 1200..

| P25 | P30 | P20 | P40 |     |     |
|-----|-----|-----|-----|-----|-----|
| M30 |     |     | M35 |     |     |
| K30 | K30 |     | S30 | H15 | K15 |
| S20 |     |     |     |     |     |

●: Stock item 常备库存  
○: Order made item 按订单生产

| RPMT<br>RPMW  | Designation      | Fz<br>(mm/tooth) | YG602 | YG622 | YG712 | YG603 | YG501 | YG5020 |
|---|------------------|------------------|-------|-------|-------|-------|-------|--------|
| RPMT<br>General<br>通用型                                | RPMT 08T2M0      | 0.10~0.24        | ●     |       |       |       |       |        |
|   | RPMT 10T3M0      | 0.16~0.30        | ●     |       |       |       |       |        |
|   | RPMT 1204M0      | 0.20~0.35        | ●     |       | ●     | ●     | ●     |        |
| -ST<br>Stainless Steel<br>Super Alloy<br>不锈钢<br>超耐热合金 | RPMT 1204M0 - ST | 0.10~0.30        | ●     |       |       |       |       |        |
|   |                  |                  |       |       |       |       |       |        |
| RPMW<br>Hard<br>Materials<br>高硬度材料                    | RPMW 1003M0      | 0.16~0.30        | ●     |       |       |       |       |        |
|   | RPMW 1204M0      | 0.16~0.35        | ●     |       |       |       |       |        |

| Cutting Speed 切削速度 |       |                                   | Vc (m/min.) |     |       |     |       |     |       |     |       |     |        |     |
|--------------------|-------|-----------------------------------|-------------|-----|-------|-----|-------|-----|-------|-----|-------|-----|--------|-----|
| ISO                | VDI   | Sub Group 分组                      | YG602       |     | YG622 |     | YG712 |     | YG603 |     | YG501 |     | YG5020 |     |
|                    |       |                                   | Min         | Max | Min   | Max | Min   | Max | Min   | Max | Min   | Max | Min    | Max |
| P                  | 1~5   | Non-Alloyed Steel 非合金钢            | 140         | 380 | 140   | 400 | 170   | 300 | 90    | 230 | -     | -   | -      | -   |
|                    | 6~9   | Low-Alloyed Steel 低合金钢            | 120         | 300 | 120   | 320 | 180   | 250 | 70    | 210 | -     | -   | -      | -   |
|                    | 10~11 | High-Alloyed Steel 高合金钢           | 70          | 150 | 70    | 170 | 100   | 140 | 60    | 100 | -     | -   | -      | -   |
| M                  | 12~13 | Ferritic & Martensitic 铁素体&马氏体不锈钢 | 120         | 200 | -     | -   | -     | -   | 80    | 180 | -     | -   | -      | -   |
|                    | 14    | Austenitic Stainless Steel 奥氏体不锈钢 | 130         | 250 | -     | -   | -     | -   | 100   | 200 | -     | -   | -      | -   |
| K                  | 15~16 | Grey Cast Iron 灰铸铁                | 120         | 250 | 120   | 270 | -     | -   | -     | -   | 180   | 350 | 200    | 350 |
|                    | 17~18 | Nodular Cast Iron 球墨铸铁            | 130         | 220 | 130   | 240 | -     | -   | -     | -   | 120   | 270 | 150    | 300 |
| N                  | 21~30 | Non-Ferrous Metals (Al) 非铁金属      | -           | -   | -     | -   | -     | -   | -     | -   | -     | -   | -      | -   |
| S                  | 31~37 | Superalloys & Titanium 超耐热合金&钛合金  | 25          | 45  | -     | -   | -     | -   | 20    | 40  | -     | -   | -      | -   |
| H                  | 38~41 | Hard Materials 高硬度材料              | 40          | 80  | 40    | 100 | -     | -   | -     | -   | 50    | 90  | -      | -   |

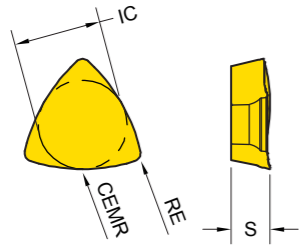
| Cutting Speed 切削速度 |       |                                   | Vc (m/min.) |     |       |     |       |     |       |     |       |     |        |     |
|--------------------|-------|-----------------------------------|-------------|-----|-------|-----|-------|-----|-------|-----|-------|-----|--------|-----|
| ISO                | VDI   | Sub Group 分组                      | YG602       |     | YG622 |     | YG712 |     | YG603 |     | YG501 |     | YG5020 |     |
|                    |       |                                   | Min         | Max | Min   | Max | Min   | Max | Min   | Max | Min   | Max | Min    | Max |
| P                  | 1~5   | Non-Alloyed Steel 非合金钢            | 140         | 380 | 140   | 400 | 170   | 300 | 90    | 230 | -     | -   | -      | -   |
|                    | 6~9   | Low-Alloyed Steel 低合金钢            | 120         | 300 | 120   | 320 | 180   | 250 | 70    | 210 | -     | -   | -      | -   |
|                    | 10~11 | High-Alloyed Steel 高合金钢           | 70          | 150 | 70    | 170 | 100   | 140 | 60    | 100 | -     | -   | -      | -   |
| M                  | 12~13 | Ferritic & Martensitic 铁素体&马氏体不锈钢 | 120         | 200 | -     | -   | -     | -   | 80    | 180 | -     | -   | -      | -   |
|                    | 14    | Austenitic Stainless Steel 奥氏体不锈钢 | 130         | 250 | -     | -   | -     | -   | 100   | 200 | -     | -   | -      | -   |
| K                  | 15~16 | Grey Cast Iron 灰铸铁                | 120         | 250 | 120   | 270 | -     | -   | -     | -   | 180   | 350 | 200    | 350 |
|                    | 17~18 | Nodular Cast Iron 球墨铸铁            | 130         | 220 | 130   | 240 | -     | -   | -     | -   | 120   | 270 | 150    | 300 |
| N                  | 21~30 | Non-Ferrous Metals (Al) 非铁金属      | -           | -   | -     | -   | -     | -   | -     | -   | -     | -   | -      | -   |
| S                  | 31~37 | Superalloys & Titanium 超耐热合金&钛合金  | 25          | 45  | -     | -   | -     | -   | 20    | 40  | -     | -   | -      | -   |
| H                  | 38~41 | Hard Materials 高硬度材料              | 40          | 80  | 40    | 100 | -     | -   | -     | -   | 50    | 90  | -      | -   |

Milling - Profiling - Inserts  
**RBEX50** - Profiling / Highfeed (3 Corner)

铣削 - 仿形铣削 - 刀片

**RBEX50** - 仿形铣削 / 高进给 (3刀尖)

| Series | CEMR | IC   | S    |
|--------|------|------|------|
| RBEX50 | 25   | 12.7 | 5.55 |



EDP 1200..

|     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|
| P25 | P30 | P20 | P40 |     |     |
| M30 |     |     | M35 |     |     |
| K30 | K30 |     | S30 | K15 | K15 |
| S20 |     |     | H15 |     |     |

● : Stock item 常备库存  
○ : Order made item 按订单生产

| RBEX50 | Designation | RE (mm) | Fz (mm/tooth) | YG602  | YG622  | YG712 | YG603 | YG501 | YG5020 |
|--------|-------------|---------|---------------|--------|--------|-------|-------|-------|--------|
|        | RBEX 50     | 1.2     | 0.2~0.4       | ● 0277 | ● 0443 |       |       |       |        |



| Cutting Speed 切削速度 |       |                                   | Vc (m/min.) |     |       |     |       |     |       |     |       |     |        |     |
|--------------------|-------|-----------------------------------|-------------|-----|-------|-----|-------|-----|-------|-----|-------|-----|--------|-----|
| ISO                | VDI   | Sub Group 分组                      | YG602       |     | YG622 |     | YG712 |     | YG603 |     | YG501 |     | YG5020 |     |
|                    |       |                                   | Min         | Max | Min   | Max | Min   | Max | Min   | Max | Min   | Max | Min    | Max |
| P                  | 1~5   | Non-Alloyed Steel 非合金钢            | 140         | 380 | 140   | 400 | 170   | 300 | 90    | 230 | -     | -   | -      | -   |
|                    | 6~9   | Low-Alloyed Steel 低合金钢            | 120         | 300 | 120   | 320 | 180   | 250 | 70    | 210 | -     | -   | -      | -   |
|                    | 10~11 | High-Alloyed Steel 高合金钢           | 70          | 150 | 70    | 170 | 100   | 140 | 60    | 100 | -     | -   | -      | -   |
| M                  | 12~13 | Ferritic & Martensitic 铁素体&马氏体不锈钢 | 120         | 200 | -     | -   | -     | -   | 80    | 180 | -     | -   | -      | -   |
|                    | 14    | Austenitic Stainless Steel 奥氏体不锈钢 | 130         | 250 | -     | -   | -     | -   | 100   | 200 | -     | -   | -      | -   |
| K                  | 15~16 | Grey Cast Iron 灰铸铁                | 120         | 250 | 120   | 270 | -     | -   | -     | -   | 180   | 350 | 200    | 350 |
|                    | 17~18 | Nodular Cast Iron 球墨铸铁            | 130         | 220 | 130   | 240 | -     | -   | -     | -   | 120   | 270 | 150    | 300 |
| N                  | 21~30 | Non-Ferrous Metals (Al) 非铁金属      | -           | -   | -     | -   | -     | -   | -     | -   | -     | -   | -      | -   |
| S                  | 31~37 | Superalloys & Titanium 超耐热合金&钛合金  | 25          | 45  | -     | -   | -     | -   | 20    | 40  | -     | -   | -      | -   |
| H                  | 38~41 | Hard Materials 高硬材料               | 40          | 80  | 40    | 100 | -     | -   | -     | -   | 50    | 90  | -      | -   |

Milling - High Feed Milling - Cutter  
**Cutters for ENMX**

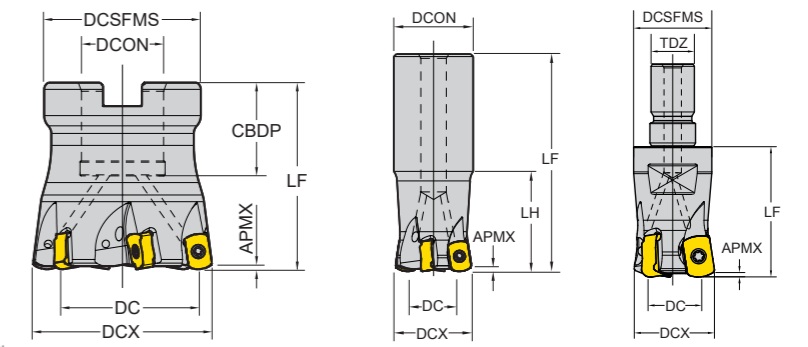
铣削 - 高进给 - 刀杆  
刀杆为ENMX

Cutting Angle(切削角) : 10°  
4 Corner Negative(刀尖 负角型)

<S> Shell Mill(刀盘)

<C> Cyindrical(直柄)

<M> Modular(侧固)



ZEFP : Effective Number of Cutting Edges ZEPF : 有效刃数  
CBDP : Connection Bore Depth CBDP : 刀柄连接孔深度

Unit(单位):mm

| Series              | APMX                     | Designation              | EDP 1700.. | DC   | DCX | ZEFP | LF         | Type        | DCON /TDZ | LH | CBDP | DCSFS | ● |
|---------------------|--------------------------|--------------------------|------------|------|-----|------|------------|-------------|-----------|----|------|-------|---|
| ENMX                | 0.9                      | EHF-ENMX06-D16Z2C16-L100 | 0644       | 9.0  | 16  | 2    | 100        | Cylindrical | 16        | 30 | -    | -     | ● |
|                     |                          | EHF-ENMX06-D16Z2C16-L150 | 0645       | 9.0  | 16  | 2    | 150        |             | 16        | 50 | -    | -     | ● |
|                     |                          | EHF-ENMX06-D17Z2C16-L100 | 0674       | 10.0 | 17  | 2    | 100        |             | 16        | 20 | -    | -     | ● |
|                     |                          | EHF-ENMX06-D17Z2C16-L150 | 0473       | 10.0 | 17  | 2    | 150        |             | 16        | 20 | -    | -     | ● |
|                     |                          | EHF-ENMX06-D20Z3C20-L130 | 0463       | 12.6 | 20  | 3    | 130        |             | 20        | 50 | -    | -     | ● |
|                     |                          | EHF-ENMX06-D20Z3C20-L160 | 0646       | 12.6 | 20  | 3    | 160        |             | 20        | 80 | -    | -     | ● |
|                     | 1                        | EHF-ENMX06-D21Z3C20-L150 | 0475       | 13.6 | 21  | 3    | 150        | 20          | 20        | -  | -    | ●     |   |
|                     |                          | EHF-ENMX06-D21Z3C20-L200 | 0476       | 13.6 | 21  | 3    | 200        | 20          | 20        | -  | -    | ●     |   |
|                     |                          | EHF-ENMX06-D25Z4C25-L140 | 0647       | 17.6 | 25  | 4    | 140        | 25          | 60        | -  | -    | ●     |   |
|                     |                          | EHF-ENMX06-D25Z4C25-L180 | 0464       | 17.6 | 25  | 4    | 180        | 25          | 80        | -  | -    | ●     |   |
|                     |                          | EHF-ENMX06-D25Z4C25-L250 | 0648       | 17.6 | 25  | 4    | 250        | 25          | 120       | -  | -    | ●     |   |
|                     |                          | EHF-ENMX06-D26Z4C25-L150 | 0479       | 18.6 | 26  | 4    | 150        | 25          | 30        | -  | -    | ●     |   |
| 0.9                 | EHF-ENMX06-D26Z4C25-L200 | 0480                     | 18.6       | 26   | 4   | 200  | 25         | 30          | -         | -  | ●    |       |   |
|                     | EHF-ENMX06-D32Z5C32-L150 | 0649                     | 24.6       | 32   | 5   | 150  | 32         | 70          | -         | -  | ●    |       |   |
|                     | EHF-ENMX06-D32Z5C32-L200 | 0465                     | 24.6       | 32   | 5   | 200  | 32         | 100         | -         | -  | ●    |       |   |
|                     | MHF-ENMX06-D16Z2M08      | 0691                     | 9.0        | 16   | 2   | 23   | Modular    | M08         | -         | 13 | ●    |       |   |
|                     | MHF-ENMX06-D18Z2M08      | 0730                     | 11.0       | 18   | 2   | 23   |            | M08         | -         | 13 | ●    |       |   |
|                     | MHF-ENMX06-D20Z3M10      | 0692                     | 12.6       | 20   | 3   | 30   |            | M10         | -         | 18 | ●    |       |   |
| MHF-ENMX06-D25Z4M12 | 0693                     | 17.6                     | 25         | 4    | 35  | M12  |            | -           | 21        | ●  |      |       |   |
| MHF-ENMX06-D32Z5M16 | 0694                     | 24.6                     | 32         | 5    | 42  | M16  |            | -           | 29        | ●  |      |       |   |
| MHF-ENMX06-D35Z5M16 | 0695                     | 27.6                     | 35         | 5    | 42  | M16  |            | -           | 29        | ●  |      |       |   |
| 1                   | MHF-ENMX06-D40Z6M16      | 0732                     | 32.6       | 40   | 6   | 42   | M16        | -           | 29        | ●  |      |       |   |
|                     | MHF-ENMX06-D42Z6M16      | 0696                     | 34.6       | 42   | 6   | 42   | M16        | -           | 29        | ●  |      |       |   |
|                     | FHF-ENMX06-D40Z6S16      | 0482                     | 32.6       | 40   | 6   | 40   | Shell Mill | 16          | 18        | 37 | ●    |       |   |
| FHF-ENMX06-D50Z6S22 | 0471                     | 42.6                     | 50         | 6    | 50  | 22   |            | 25          | 42        | ●  |      |       |   |

Technical Information 技术资料

| DCX                      | APMXR         | RP                  | UTCN            | Overcut |
|--------------------------|---------------|---------------------|-----------------|---------|
| Cutting Diameter Maximum | Radial AP Max | Programmed Corner R | Uncut Thickness | 刀补      |
| 刀杆外圆直径                   | 最大径向切削深度      | 设定拐角半径              | 未切削厚度           |         |
| 16                       | 3.5           | R2.0                | 0.31            | 0.00    |
| 16~                      | 3.7           | R2.5                | 0.18            | 0.18    |
|                          |               | R3.0                | 0.07            | 0.36    |

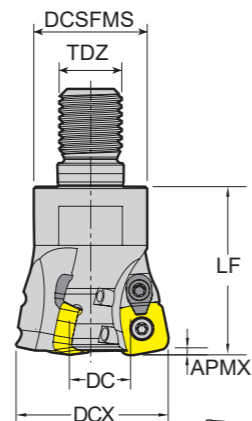
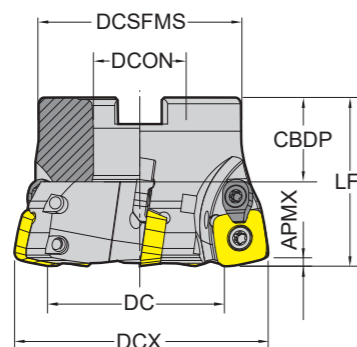
Milling - High Feed Milling - Cutter  
Cutters for SDMT, SDMW

铣削 - 高进给 - 刀杆  
刀杆为SDMT,SDMW

Cutting Angle(切削角) : 10°  
4 Corner Positive(刀尖正角型)

<S> Shell Mill(刀盘)

<M> Modular(侧固)



ZEFP : Effective Number of Cutting Edges  
CBDP : Connection Bore Depth

ZEFP : 有效刃数  
CBDP : 刀柄连接孔深度

Unit(单位):mm

| Series               | APMX | Designation              | EDP 1700.. | DC   | DCX | ZEFP | LF | TYPE      | DCON /TDZ | CBDP | DCSFMS |   |
|----------------------|------|--------------------------|------------|------|-----|------|----|-----------|-----------|------|--------|---|
| SDMT<br>SDMW<br>1204 | 1.8  | FHF - SDMW12 - D50Z4S22  | 0604       | 32.4 | 50  | 4    | 40 | Shellmill | 22        | 22   | 42     | ● |
|                      |      | FHF - SDMW12 - D63Z5S22  | 0605       | 45.4 | 63  | 5    | 40 |           | 22        | 22   | 48     | ● |
|                      |      | FHF - SDMW12 - D80Z6S27  | 0606       | 62.4 | 80  | 6    | 50 |           | 27        | 25   | 58     | ● |
|                      |      | FHF - SDMW12 - D100Z8S32 | 0607       | 82.4 | 100 | 8    | 50 |           | 32        | 26   | 65     | ● |
|                      |      | MHF - SDMW12 - D32Z2M16  | 0608       | 14.4 | 32  | 2    | 43 | Modular   | M16       | -    | 29     | ● |
|                      |      | MHF - SDMW12 - D40Z3M16  | 0609       | 22.4 | 40  | 3    | 43 |           | M16       | -    | 29     | ● |

Technical Information 技术资料

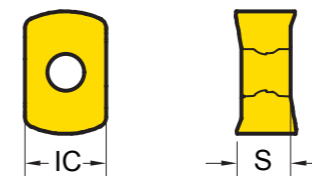
| APMXR         | RP                  | UTCN            |
|---------------|---------------------|-----------------|
| Radial AP Max | Programmed Corner R | Uncut Thickness |
| 最大径向切削深度      | 设定拐角半径              | 未切削厚度           |
| 8.6           | R3.5                | 0.94            |

Unit:mm

Milling - High Feed Milling - Inserts  
ENMX - High Feed Negative (4 Corners)

铣削 - 高进给 - 刀片  
ENMX - 高进给 负角型 (4刀尖)

| Series    | IC  | S    |
|-----------|-----|------|
| ENMX 0604 | 6.3 | 4.21 |



● : Stock item 常备库存  
○ : Order made item 按订单生产

EDP 1200..

| P25 | P30 | P20 | P40 |     |     |
|-----|-----|-----|-----|-----|-----|
| M30 |     |     | M35 |     |     |
| K30 | K30 |     |     | K15 | K15 |
| S20 |     | S30 | H15 |     |     |

| ENMX                     | Designation  | RE (mm) | Fz (mm/tooth) | BS (mm) | YG602  | YG622 | YG712 | YG603 | YG501 | YG5020 |
|--------------------------|--------------|---------|---------------|---------|--------|-------|-------|-------|-------|--------|
| ENMX General 通用型         | ENMX 0604    |         | 0.3~2.0       |         | ● 0474 |       |       |       |       |        |
| -TR Hardened Steel 高硬度钢件 | ENMX 0604-TR |         | 0.3~2.5       |         | ● 0459 |       |       |       |       |        |

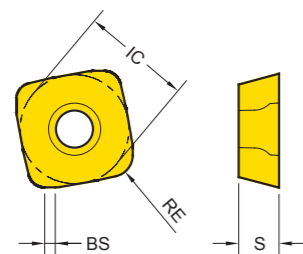


| DCX                      | APMX                 | APMXR                       | RMPX                     | RP                       | UTCN            | Diameter                 | Diameter                 | Pitch                       | Ae            |
|--------------------------|----------------------|-----------------------------|--------------------------|--------------------------|-----------------|--------------------------|--------------------------|-----------------------------|---------------|
| External Cutter Diameter | Maximum Depth of Cut | Maximum Radial Depth of Cut | Maximum Ramping Angle(°) | Programmed Corner Radius | Uncut Thickness | Minimum Cutting Diameter | Maximum Cutting Diameter | Helical Interpolation Pitch | Enlarge Width |
| 刀杆外圆直径                   | 最大切削深度               | 最大径向切削深度                    | 最大爬坡角度                   | 设定拐角半径                   | 未切削厚度           | 切削最小直径                   | 刀杆外圆直径                   | 螺旋插补螺距                      | 扩展宽度          |
| 16                       | 0.9                  | 3.5                         | 3.6°                     | R2.0                     | 0.3             | 21                       | 30                       | 0.9                         | 12.5          |
| 20                       | 1                    | 3.7                         | 3.3°                     | R2.0                     | 0.31            | 29                       | 38                       | 1                           | 16.3          |
| 25                       | 1                    | 3.7                         | 2.2°                     | R2.0                     | 0.31            | 39                       | 48                       | 1                           | 21.3          |
| 32                       | 1                    | 3.7                         | 1.5°                     | R2.0                     | 0.31            | 53                       | 62                       | 1                           | 28.3          |
| 40                       | 1                    | 3.7                         | 1.1°                     | R2.0                     | 0.31            | 69                       | 78                       | 1                           | 36.3          |
| 50                       | 1                    | 3.7                         | 0.8°                     | R2.0                     | 0.31            | 89                       | 98                       | 1                           | 46.3          |

| Cutting Speed 切削速度 |       |                                   | Vc (m/min.) |     |       |     |       |     |       |     |       |     |        |     |
|--------------------|-------|-----------------------------------|-------------|-----|-------|-----|-------|-----|-------|-----|-------|-----|--------|-----|
| ISO                | VDI   | Sub Group 分组                      | YG602       |     | YG622 |     | YG712 |     | YG603 |     | YG501 |     | YG5020 |     |
|                    |       |                                   | Min         | Max | Min   | Max | Min   | Max | Min   | Max | Min   | Max |        |     |
| P                  | 1~5   | Non-Alloyed Steel 非合金钢            | 140         | 380 | 140   | 400 | 170   | 300 | 90    | 230 | -     | -   | -      | -   |
|                    | 6~9   | Low-Alloyed Steel 低合金钢            | 120         | 300 | 120   | 320 | 180   | 250 | 70    | 210 | -     | -   | -      | -   |
|                    | 10~11 | High-Alloyed Steel 高合金钢           | 70          | 150 | 70    | 170 | 100   | 140 | 60    | 100 | -     | -   | -      | -   |
| M                  | 12~13 | Ferritic & Martensitic 铁素体&马氏体不锈钢 | 120         | 200 | -     | -   | -     | -   | 80    | 180 | -     | -   | -      | -   |
|                    | 14    | Austenitic Stainless Steel 奥氏体不锈钢 | 130         | 250 | -     | -   | -     | -   | 100   | 200 | -     | -   | -      | -   |
| K                  | 15~16 | Grey Cast Iron 灰铸铁                | 120         | 250 | 120   | 270 | -     | -   | -     | -   | 180   | 350 | 200    | 350 |
|                    | 17~18 | Nodular Cast Iron 球墨铸铁            | 130         | 220 | 130   | 240 | -     | -   | -     | -   | 120   | 270 | 150    | 300 |
| N                  | 21~30 | Non-Ferrous Metals (Al) 非铁金属      | -           | -   | -     | -   | -     | -   | -     | -   | -     | -   | -      | -   |
| S                  | 31~37 | Superalloys & Titanium 超耐热合金&钛合金  | 25          | 45  | -     | -   | -     | -   | 20    | 40  | -     | -   | -      | -   |
| H                  | 38~41 | Hard Materials 高硬材料               | 40          | 80  | 40    | 100 | -     | -   | -     | -   | 50    | 90  | -      | -   |

Milling - High Feed Milling - Inserts  
SDMT / W - High Feed Positive (4 Corners)

铣削 - 高进给 - 刀片  
SDMT/W - 高进给 正角型 (4刀尖)



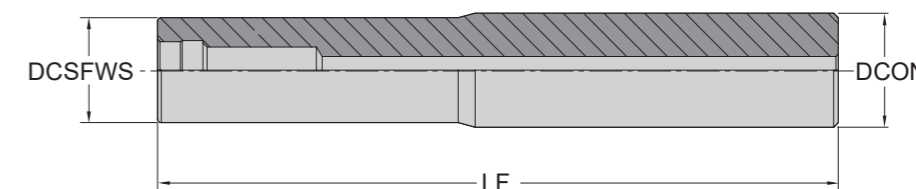
| Series    | IC   | S   |
|-----------|------|-----|
| SDM* 1204 | 12.7 | 4.7 |

EDP 1200..

| P25 | P30 | P20 | P40 |     |     |
|-----|-----|-----|-----|-----|-----|
| M30 |     |     | M35 |     |     |
| K30 | K30 |     | S30 | K15 | K15 |
| S20 |     |     |     | H15 |     |

● : Stock item 常备库存  
○ : Order made item 按订单生产

| SDMT<br>SDMW  | Designation    | RE (mm) | Fz (mm/tooth) | BS (mm) | YG602  | YG622  | YG712 | YG603 | YG501 | YG5020 |
|---|----------------|---------|---------------|---------|--------|--------|-------|-------|-------|--------|
| -ST<br>Stainless Steel<br>Super Alloy<br>不锈钢<br>超耐热合金 | SDMT 120420-ST | 1.9     | 0.60~1.20     | 1.45    | ● 0274 |        |       |       |       |        |
| SDMW<br>Hard Materials<br>高硬度材料                       | SDMW 120420    | 1.9     | 0.60~1.40     | 1.4     | ● 0273 | ● 0341 |       |       |       |        |



Unit(单位):mm

| Series                    | Designation               | EDP 1700.. | DCSFWS | LF  | TYPE        | DCON        |    |
|---------------------------|---------------------------|------------|--------|-----|-------------|-------------|----|
| M08                       | EM - M08 - D16ZC16 - L100 | 0634       | 13     | 100 | Cylindrical | 16          | ●  |
|                           | EM - M08 - D16ZC16 - L130 | 0635       | 15     | 130 |             | 16          | ●  |
| M10                       | EM - M10 - D20ZC20 - L130 | 0636       | 18     | 130 | Cylindrical | 20          | ●  |
|                           | EM - M12 - D25ZC25 - L150 | 0637       | 25     | 150 |             | 25          | ●  |
| M12                       | EM - M12 - D25ZC25 - L200 | 0638       | 23     | 200 | Cylindrical | 25          | ●  |
|                           | EM - M12 - D25ZC25 - L250 | 0639       | 23     | 250 |             | 25          | ●  |
|                           | EM - M16 - D32ZC32 - L150 | 0640       | 30     | 150 |             | Cylindrical | 32 |
| EM - M16 - D32ZC32 - L200 | 0641                      | 30         | 200    | 32  | ●           |             |    |
| EM - M16 - D32ZC32 - L250 | 0642                      | 30         | 250    | 32  | ●           |             |    |
| EM - M16 - D32ZC32 - L300 | 0643                      | 30         | 300    | 32  | ●           |             |    |

| Cutting Speed 切削速度 |       | Vc (m/min.)                       |       |     |       |     |       |     |       |     |       |     |        |     |
|--------------------|-------|-----------------------------------|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|--------|-----|
| ISO                | VDI   | Sub Group 分组                      | YG602 |     | YG622 |     | YG712 |     | YG603 |     | YG501 |     | YG5020 |     |
|                    |       |                                   | Min   | Max | Min   | Max | Min   | Max | Min   | Max | Min   | Max | Min    | Max |
| P                  | 1~5   | Non-Alloyed Steel 非合金钢            | 140   | 380 | 140   | 400 | 170   | 300 | 90    | 230 | -     | -   | -      | -   |
|                    | 6~9   | Low-Alloyed Steel 低合金钢            | 120   | 300 | 120   | 320 | 180   | 250 | 70    | 210 | -     | -   | -      | -   |
|                    | 10~11 | High-Alloyed Steel 高合金钢           | 70    | 150 | 70    | 170 | 100   | 140 | 60    | 100 | -     | -   | -      | -   |
| M                  | 12~13 | Ferritic & Martensitic 铁素体&马氏体不锈钢 | 120   | 200 | -     | -   | -     | -   | 80    | 180 | -     | -   | -      | -   |
|                    | 14    | Austenitic Stainless Steel 奥氏体不锈钢 | 130   | 250 | -     | -   | -     | -   | 100   | 200 | -     | -   | -      | -   |
| K                  | 15~16 | Grey Cast Iron 灰铸铁                | 120   | 250 | 120   | 270 | -     | -   | -     | -   | 180   | 350 | 200    | 350 |
|                    | 17~18 | Nodular Cast Iron 球墨铸铁            | 130   | 220 | 130   | 240 | -     | -   | -     | -   | 120   | 270 | 150    | 300 |
| N                  | 21~30 | Non-Ferrous Metals (Al) 非铁金属      | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | -      | -   |
| S                  | 31~37 | Superalloys & Titanium 超耐热合金&钛合金  | 25    | 45  | -     | -   | -     | -   | 20    | 40  | -     | -   | -      | -   |
| H                  | 38~41 | Hard Materials 高硬度材料              | 40    | 80  | 40    | 100 | -     | -   | -     | -   | 50    | 90  | -      | -   |