

# 切削刀具产品目录

Cutting Tool Product Catalog



**NewCermets<sup>®</sup>**  
新陶新材



**株洲新陶新材料有限公司**  
ZHUZHOU NEW CERMETS MATERIAL CO.,LTD



# Company Profile

## 公司简介

株洲新陶新材料有限公司坐落于株洲市国家级高新技术开发区内，公司专门从事于金属陶瓷新材料的研发与生产，是一家集研发、生产、销售于一体的高新技术企业。我们专注于晶须陶瓷、碳氮化钛基(TiCN)金属陶瓷圆棒、切削刀片等耐磨耐高温材料的研发和生产销售，还可以针对客户特殊需求提供多种定制化服务。金属陶瓷材料适用于制作车刀、铣刀、铰刀、钻头等机械加工使用刀具。公司产品覆盖众多生产应用领域，其中包括汽车工业、航空航天、军工、医疗、机械、石油化工、IT等众多领域。

公司拥有经验丰富的生产技术及管理人才，由知名高校教授和多名博士研究生组成的研发团队，具备很强的自主研发能力，先进的技术力量保证了产品的品质和稳定性，产品质量在同行业中处于领先地位，并建立起了一套完整的质量管理体系和完善的售后服务网络，深受国内外用户的信赖和好评！



接待大厅 Reception Hall



Zhuzhou Newcermet Materials Co., Ltd. is located in Zhuzhou national high-tech Development Zone, the company specializes in the research and development and production of new metal ceramic materials, is a research and development, production, sales in one of the high-tech enterprises. We specialize in the development and production of whisker ceramics, titanium carbon nitride (TiCN) cermet round rods, cutting blades, wear resistant and high temperature materials, and can also provide a variety of customized services for customers' special needs. Cermet materials are suitable for making machining tools such as turning tools, milling cutters, reamers and drill bits. The company's products cover many application fields, including automotive, aerospace, military, medical, machinery, petrochemical, IT and many other fields. The company has experienced production technology and management personnel, a research and development team composed of well-known university professors and a number

of doctoral students, with strong independent research and development capabilities, advanced technical force to ensure product quality and stability, product quality in the industry in the leading position, and established a complete set of quality management system and perfect after-sales service network. By domestic and foreign users trust and praise!



**世界领先**  
金属加工行业新秀  
国家级硬质合金切削刀具产业带



**实力雄厚**  
国家专精特新小巨人企业  
高新技术企业



**技术先进**  
为机械加工制造行业  
提供完备的刀具解决方案





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**Newcermets**<sup>®</sup>  
新陶新材

为机械加工制造行业提供完备的刀具解决方案  
Provide complete tool solutions for the machining and manufacturing industry

**Newcermets**<sup>®</sup>  
新陶新材

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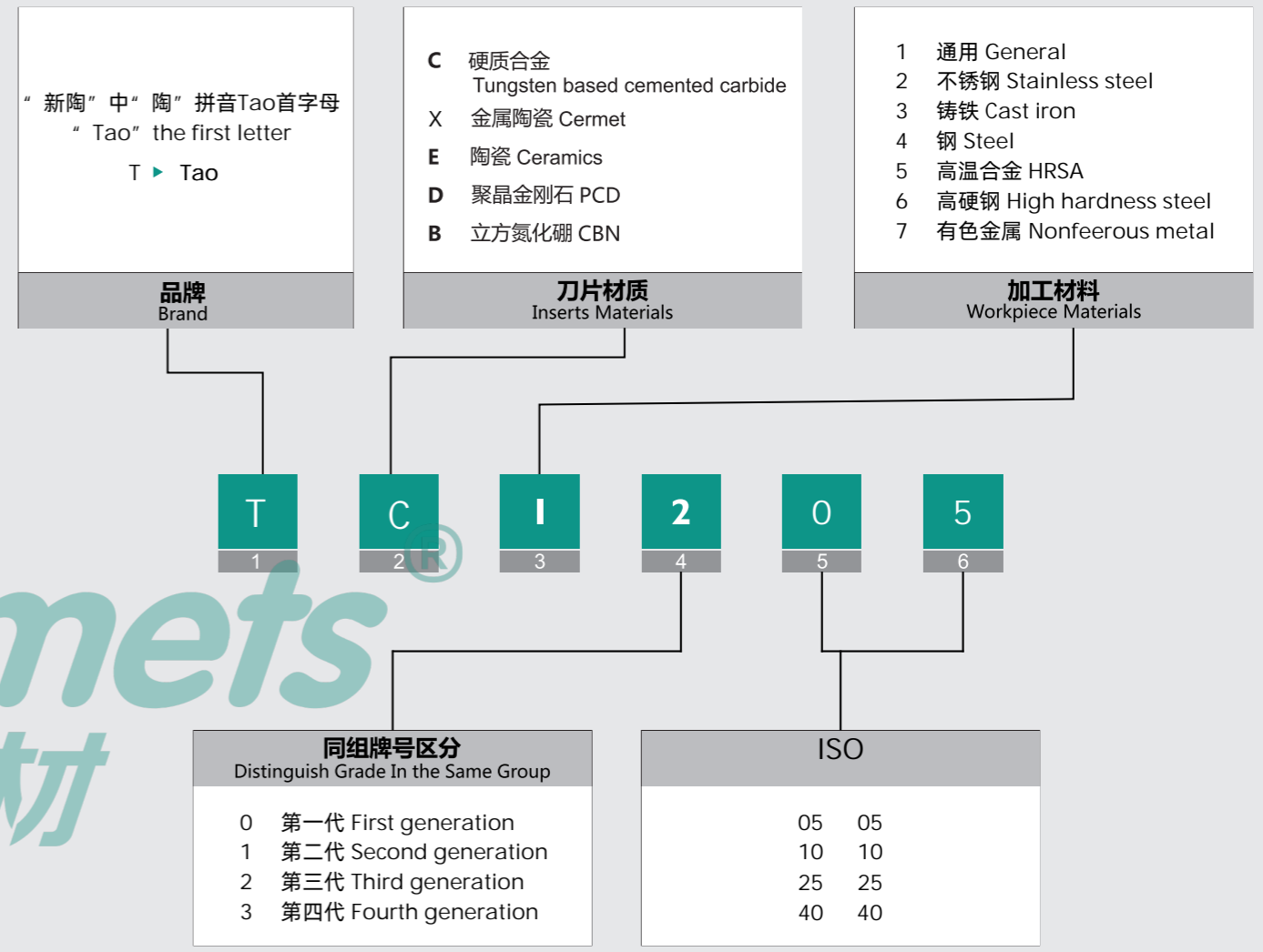
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## 新陶牌号命名规则

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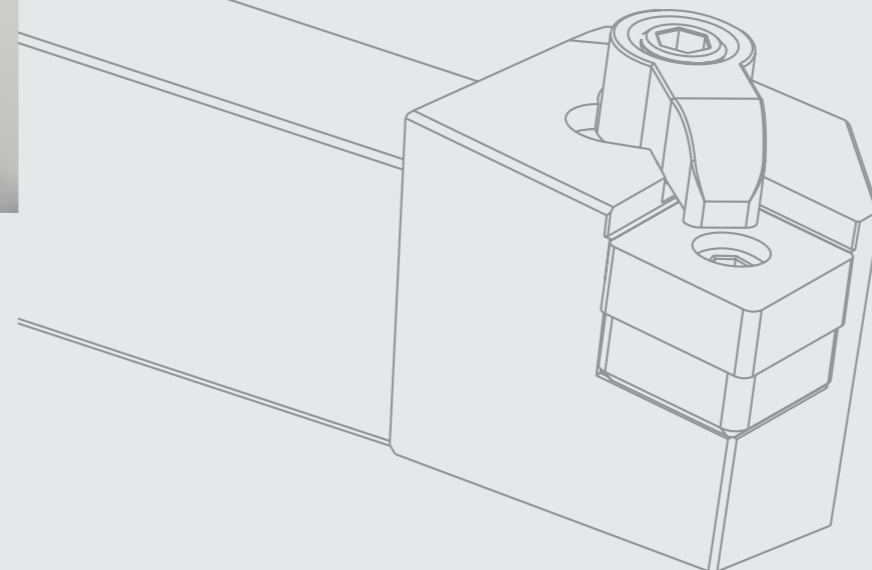




## 车削刀片 Turning Inserts

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## TURNING INSERTS

### 车削刀片



### 车削刀片牌号介绍

### Grade Informations

| 产品牌号<br>Grade | ISO                 | 涂层类型<br>Types of Coating | 涂层组成<br>Coating Composition                 | 特点及应用<br>Features and Applications  |
|---------------|---------------------|--------------------------|---|---|
| TC4110        | P10~P25             | CVD<br>双色<br>Bicolor     | MT-TiCN+Al <sub>2</sub> O <sub>3</sub> +TiN | 1.梯度结构的高硬度专用基体, 结合中温TiCN和超细Al <sub>2</sub> O <sub>3</sub> 涂层, 刀片具备优异的耐磨性能。<br>2.适用于稳定工况下钢件的精加工, 连续车削, 追求高耐磨性场合。<br>1. Using the special high-hardness substrate of gradient structure, combined with medium temperature TiCN and ultra-fine Al <sub>2</sub> O <sub>3</sub> coating, it has excellent performance of wear resistance.<br>2. It is suitable for finishing processing and continuous turning of steel under stable working conditions and in pursuit of high wear-resistant occasions.   |
| TC4125        | P15~P35             | CVD<br>双色<br>Bicolor     | MT-TiCN+Al <sub>2</sub> O <sub>3</sub> +TiN | 1.全新的纳米柱状结构MT-TiCN和厚Al <sub>2</sub> O <sub>3</sub> 涂层, 与韧性、强度兼备的中钴梯度硬质合金基体相结合。<br>2.适用于碳钢、合金钢等材料的半精加工到粗加工, 亦可用于断续加工, 是钢件车削加工的首选牌号。<br>1. Using new nano-columnar structure of MT-TiCN and thick Al <sub>2</sub> O <sub>3</sub> coating, combined with medium Cobalt gradient cemented carbide substrate with both toughness and strength.<br>2. It is suitable for semi-finishing to roughing processing of carbon steel, alloy steel and other materials. It can also be used for interrupted processing, and is the preferred grade for steel turning.  |
| TC4130        | P20~P40             | CVD<br>双色<br>Bicolor     | MT-TiCN+Al <sub>2</sub> O <sub>3</sub> +TiN | 1.高韧性基体搭配合适厚度的MT-TiCN和Al <sub>2</sub> O <sub>3</sub> 涂层, 使得材质在强冲击力工况下仍能兼顾耐磨性和稳定性。<br>2.适用于碳钢、合金钢等材料的车削粗加工。<br>1. High toughness substrate with suitable thickness of MT-TiCN and Al <sub>2</sub> O <sub>3</sub> coating, which makes the material keep the wear resistance and stability under strong impact conditions.<br>2. It is suitable for roughing processing of carbon steel, alloy steel and other materials turning.   |
| TC4335        | P20~P35             | CVD<br>黄色<br>Yellow      | MT-TiCN+Al <sub>2</sub> O <sub>3</sub> +TiN | 1.采用中钴含量的韧性硬质合金基体, 结合中温TiCN和厚的Al <sub>2</sub> O <sub>3</sub> 涂层, 具有优良的耐磨性和抗崩缺性能。<br>2.适用于软钢、低碳钢、低碳合金钢的广泛车削加工。<br>1. It uses medium Cobalt content tough cemented carbide substrate, combined with medium temperature TiCN and thick Al <sub>2</sub> O <sub>3</sub> coating, which has excellent performance of wear resistance and chipping resistance.<br>2. It is suitable for a wide range of turning of soft steel, low carbon steel and low carbon alloy steel.  |
| TC2035        | P15~P35;<br>M10~M30 | CVD<br>双色<br>Bicolor     | MT-TiCN+Al <sub>2</sub> O <sub>3</sub>      | 1.采用中钴成分的高韧性梯度合金基体, 搭配细晶柱状TiCN和超细的Al <sub>2</sub> O <sub>3</sub> 涂层, 具有优异的抗崩缺能力和高温强度。<br>2.适用于钢件、不锈钢材料的半精、粗车削加工, 亦可用于恶劣工况下的大切深、大进给加工。<br>1. Using high toughness gradient cemented carbide substrate with medium Cobalt content, matched with fine crystalline columnar TiCN and ultra-fine Al <sub>2</sub> O <sub>3</sub> coating, it has excellent performance of chipping resistance and high temperature resistance.<br>2. It is suitable for semi-finishing and roughing processing of steel and stainless steel turning. It can also be used for large depth of cut and large feed machining under severe working conditions. |
| TC3015        | K10~K25             | CVD<br>双色<br>Bicolor     | MT-TiCN+Al <sub>2</sub> O <sub>3</sub>      | 1.高耐磨性细晶粒基体, 搭配细晶柱状中温TiCN和加厚Al <sub>2</sub> O <sub>3</sub> 涂层, 具有高的耐磨性和热稳定性。<br>2.适用于球墨铸铁的连续加工和高耐磨性场合, 尤其适合灰口铸铁的加工。<br>1. Using high wear resistance fine crystalline substrate, combined with fine crystalline columnar medium temperature TiCN and thickened Al <sub>2</sub> O <sub>3</sub> coating, it has excellent performance of wear resistance and thermal stability.<br>2. It is suitable for continuous processing of nodular cast iron and high wear resistance occasions, especially applicable to the processing of gray cast iron.  |
| TC3125        | K15~K35             | CVD<br>双色<br>Bicolor     | MT-TiCN+Al <sub>2</sub> O <sub>3</sub>      | 1.中等晶粒的强韧性基体, 搭配全新升级的MT-TiCN和Al <sub>2</sub> O <sub>3</sub> 涂层工艺, 经特殊后处理工艺, 刃口强度高, 表面光滑。<br>2.适用于铸铁的半精加工到粗加工, 亦可用于断续切削, 是铸铁车削加工的首选牌号。<br>1. The strong and tough matrix of medium grain, combined with the newly upgraded MT-TiCN and Al <sub>2</sub> O <sub>3</sub> coating process, after special post-treatment process, has good cutting edge strength and smooth surface.<br>2. It is suitable for semi-finishing to roughing processing of cast iron, and can also be used for interrupted cutting. It is the preferred grade for cast iron turning.  |

### 车削刀片牌号介绍

### Grade Informations

| 产品牌号<br>Grade | ISO                           | 涂层类型<br>Types of Coating  | 涂层组成<br>Coating Composition | 特点及应用<br>Features and Applications  |
|---------------|-------------------------------|---------------------------|-----------------------------|---|
| TC1205        | M05~M25<br>S05~S25            | PVD<br>灰黑色<br>Gray-black  | TiAlN                       | 1.高耐磨性的细晶粒低钴基体, 搭配通用性好的TiAlN涂层, 具有优异的耐磨性能。<br>2.适用于不锈钢、高温合金、钛合金等的连续精加工场合。<br>1. Using fine-grain low-cobalt substrate with high wear resistance, combined with high universality of TiAlN coating, it has excellent wear resistance.<br>2. It is suitable for continuous finishing of stainless steel, superalloy, titanium alloy, etc.   |
| TC1215        | M10~M25<br>S10~S25            | PVD<br>古铜色<br>Copper      | TiAlSiN                     | 1.采用亚微晶粒的中钴基体, 搭配极高热稳定性的含硅PVD涂层, 具有耐磨性好, 耐高温性能优异的特点。<br>2.适用于不锈钢、高温合金、钛合金等的连续车削场合, 半精加工、偏精加工。<br>1. Using the submicron grain medium cobalt substrate, combined with silicon-containing PVD coating with extremely high thermal stability, the inserts have characteristics of good wear resistance and high temperature resistance.<br>2. It is suitable for continuous turning of stainless steel, superalloy, titanium alloy, etc, semi-finishing and partial finishing. |
| TC1225        | P10~P25<br>M05~M25<br>S05~S25 | PVD<br>灰黑色<br>Gray-black  | TiAlN®                      | 1.采用亚微晶粒的中钴基体, 结合纳米结晶TiAlN涂层, 具有良好的强韧性和通用性能。<br>2.适用于合金钢、不锈钢、高温合金等的连续车削场合, 半精加工。<br>1. The submicron grain medium cobalt substrate combined with nanocrystal TiAlN coating, which makes it has high-toughness and good generality.<br>2. It is suitable for continuous turning of alloy steel, stainless steel, superalloy, semi-finishing.   |
| TC1120        | M15~M30<br>S15~S30            | PVD<br>古铜色<br>Copper      | TiAlSiN                     | 1.中钴含量的细晶粒硬质合金基体, 结合热稳定性优异的TiAlSiN涂层, 兼具耐磨性和韧性, 且耐高温性能优异。<br>2.适用于不锈钢、耐热合金的半精车削加工。<br>1. The fine grain cemented carbide substrate with medium cobalt combined with excellent thermal stability of TiAlSiN coating, which makes inserts have good wear resistance and toughness, and excellent high temperature resistance.<br>2. It is suitable for semi-finishing turning of stainless steel and heat-resistant alloy.  |
| TC1025        | P15~P30<br>M15~M30<br>S15~S30 | PVD<br>金黄色<br>Gold-yellow | TiAlN                       | 1.中钴含量的细晶粒硬质合金基体, 具有良好的刃口强度, 搭配全新的TiAlN涂层, 具有良好的耐磨和通用性能。<br>2.适用于合金钢、不锈钢等的半精车削加工, 是不锈钢车削加工的通用牌号。<br>1. Using medium cobalt fine-grained cemented carbide substrate with good edge strength, combined with the new TiAlN coating, it has both good wear resistance and generality.<br>2. It is applicable to semi-finishing turning of alloy steel, stainless steel, etc, and it is a general grade of stainless steel turning.  |

A 车削刀片

B 铣削刀片

C 孔加工刀片

A 车削刀片

B 铣削刀片

C 孔加工刀片



### 车削刀片牌号介绍

### Grade Informations

| 产品牌号<br>Grade | ISO     | 涂层类型<br>Types of Coating     | 涂层组成<br>Coating Composition | 特点及应用<br>Features and Applications  |
|---------------|---------|------------------------------|-----------------------------|---|
| TC6010        | H05~H25 | PVD<br>七彩色<br>Multiple-Color | AlTiCrSiN                   | 1.采用低钴含量的超细晶粒硬质合金基体，搭配全新升级的纳米结构PVD涂层，获得较强的涂层结合力、高耐磨性和高抗氧化性能。<br>2.适用于淬硬钢的连续车削加工。<br>1.The ultra-fine grain cemented carbide matrix with low Cobalt content is used with the newly upgraded nanostructure PVD coating to obtain strong coating adhesion, high wear resistance and high oxidation resistance.<br>2.It is suitable for continuous turning processing of hardened steel.              |
| TC6020        | H15~H30 | PVD<br>七彩色<br>Multiple-Color | AlTiCrSiN                   | 1.采用低钴含量的超细晶粒硬质合金基体，结合优异性能的纳米结构PVD涂层，具有优异的耐磨性和耐高温性能。<br>2.适用于淬硬钢的车削半精加工，轻断续加工场合。<br>1.The fine grain cemented carbide matrix with low Cobalt content is used, combined with excellent performance nanostructure PVD coating to obtain wear resistance and high temperature resistance.<br>2.It is suitable for turning semi-finishing of hardened steel, light intermittent processing occasions. |
| TC705         | N05~N20 | 无涂层<br>Uncoated              | \                           | 1.低钴的亚微晶粒硬质合金材质，结合特殊的后处理工艺，具有优异的耐磨性和抗黏结性。<br>2.适用于有色金属的车削精加工。<br>1.Low Cobalt submicrograin cemented carbide grade, combined with a special post-treatment process, has excellent wear resistance and adhesion resistance.<br>2.It is suitable for turning finishing processing of non-ferrous metals.  |
| TC710         | N10-N30 | 无涂层<br>Uncoated              | \                           | 1.低钴含量的超细晶粒硬质合金材质，结合特殊的后处理工艺，具有优异的耐磨性和抗黏结性。<br>2.适用于有色金属的车削加工。<br>1.The fine grain carbide grade with low cobalt content, combined with a special post-treatment process, has excellent wear resistance and adhesion resistance.<br>2.It is suitable for turning of non-ferrous metals.   |

### 车削产品牌号一览表

### Recommended Grade Table

| 工件材料<br>Workpiece materials | ISO代号<br>ISO Code | CVD                        | PVD                                  | 金属陶瓷<br>Cermet | 硬质合金<br>Cemented carbide | 超硬材料<br>Superhard materials |
|-----------------------------|-------------------|----------------------------|--------------------------------------|----------------|--------------------------|-----------------------------|
| P                           | P01               |                            |                                      |                |                          |                             |
|                             | P10               | TC4110<br>TC4125<br>TC4130 | TC1225<br>TC1120<br>TC1025           | TX910<br>TX920 |                          |                             |
|                             | P20               |                            |                                      |                |                          |                             |
|                             | P30               | TC4335                     |                                      |                |                          |                             |
|                             | P40               |                            |                                      |                |                          |                             |
| M                           | M01               |                            |                                      |                |                          |                             |
|                             | M10               |                            | TC1205<br>TC1225<br>TC1120<br>TC1025 | TX910C         |                          |                             |
|                             | M20               | TC2035                     |                                      |                |                          |                             |
|                             | M30               |                            |                                      |                |                          |                             |
|                             | M40               |                            |                                      |                |                          |                             |
| K                           | K01               |                            |                                      |                |                          |                             |
|                             | K10               | TC3015<br>TC3125           |                                      |                |                          |                             |
|                             | K20               |                            |                                      |                |                          |                             |
|                             | K30               |                            |                                      |                |                          |                             |
| N                           | N01               |                            |                                      |                |                          |                             |
|                             | N10               |                            |                                      |                | TC705                    |                             |
|                             | N20               |                            |                                      |                |                          | TC710                       |
|                             | N30               |                            |                                      |                |                          |                             |
| S                           | S01               |                            | TC1205<br>TC1215<br>TC1225           |                |                          |                             |
|                             | S10               |                            |                                      |                |                          |                             |
|                             | S20               |                            |                                      |                |                          |                             |
|                             | S30               |                            |                                      |                |                          |                             |
| H                           | H01               |                            |                                      |                |                          |                             |
|                             | H10               |                            | TC6010                               |                |                          |                             |
|                             | H20               |                            |                                      | TC6020         |                          |                             |
|                             | H30               |                            |                                      |                |                          |                             |

A 车削刀片

B 铣削刀片

C 孔加工刀片

A 车削刀片

B 铣削刀片

C 孔加工刀片



普通车削刀片命名规则

General Turning Inserts Naming Rules

形状代号 Shape

T N M G I6 04 08 — MB

|              |              |              |
|--------------|--------------|--------------|
| <b>A</b><br> | <b>B</b><br> | <b>C</b><br> |
| <b>D</b><br> | <b>E</b><br> | <b>H</b><br> |
| <b>K</b><br> | <b>L</b><br> | <b>M</b><br> |
| <b>O</b><br> | <b>P</b><br> | <b>R</b><br> |
| <b>S</b><br> | <b>T</b><br> | <b>T</b><br> |
| <b>V</b><br> | <b>W</b><br> | 其它           |

断屑槽及夹固形式代号 Chip Breaker and Hole

T N M G I6 04 08 — MB

| 代号<br>Symbol | 有无孔<br>Center Hole | 有无断屑槽<br>Chip Breaker | 刀片剖面<br>Insert Profile | 代号<br>Symbol | 有无孔<br>Center Hole | 有无断屑槽<br>Chip Breaker | 刀片剖面<br>Insert Profile |
|--------------|--------------------|-----------------------|------------------------|--------------|--------------------|-----------------------|------------------------|
| <b>B</b>     | 有(Y)               | 无(N)                  |                        | <b>N</b>     | 无(N)               | 无(N)                  |                        |
| <b>H</b>     | 有(Y)               | 单面(S)                 |                        | <b>R</b>     | 无(N)               | 单面(S)                 |                        |
| <b>C</b>     | 有(Y)               | 无(N)                  |                        | <b>F</b>     | 无(N)               | 双面(D)                 |                        |
| <b>J</b>     | 有(Y)               | 双面(D)                 |                        | <b>A</b>     | 有(Y)               | 无(N)                  |                        |
| <b>W</b>     | 有(Y)               | 无(N)                  |                        | <b>M</b>     | 有(Y)               | 单面(S)                 |                        |
| <b>T</b>     | 有(Y)               | 单面(S)                 |                        | <b>G</b>     | 有(Y)               | 双面(D)                 |                        |
| <b>Q</b>     | 有(Y)               | 无(N)                  |                        | <b>X</b>     |                    |                       |                        |
| <b>U</b>     | 有(Y)               | 双面(D)                 |                        |              |                    |                       |                        |

普通车削刀片命名规则

General Turning Inserts Naming Rules

切削刃长度代号 Cutting Edge Length

T N M G I6 04 08 — MB

| 内切圆直径<br>Inscribed Circle diameter(mm) | 刀片外形 Insert Shape |    |    |    |    |    |    |    |
|--|-------------------|----|----|----|----|----|----|----|
|  | C                 | D  | R  | S  | T  | V  | W  | K  |
| 3.97                                   |                   |    |    |    | 06 |    |    |    |
| 5                                      |                   |    | 05 |    |    |    |    |    |
| 5.56                                   |                   |    |    |    | 09 |    |    |    |
| 6                                      |                   |    | 06 |    |    |    |    |    |
| 6.35                                   | 06                | 07 |    |    | 11 | 11 |    |    |
| 8                                      |                   |    | 08 |    |    |    |    |    |
| 9.525                                  | 09                | 11 | 09 | 09 | 16 | 16 | 06 | 16 |
| 10                                     |                   |    | 10 |    |    |    |    |    |
| 12                                     |                   |    | 12 |    |    |    |    |    |
| 12.7                                   | 12                | 15 | 12 | 12 | 22 | 22 | 08 |    |
| 15.875                                 | 16                |    | 15 | 15 | 27 |    |    |    |
| 16                                     |                   |    | 16 | 16 |    |    |    |    |
| 19.05                                  | 19                |    | 19 | 19 | 33 |    |    |    |
| 20                                     |                   |    | 20 |    |    |    |    |    |
| 25                                     | 25                | 25 | 25 | 25 |    |    |    |    |
| 25.4                                   |                   |    | 25 | 25 |    |    |    |    |
| 31.75                                  |                   |    | 31 |    |    |    |    |    |
| 32                                     |                   |    | 32 |    |    |    |    |    |

刀片厚度代号 Thickness

T N M G I6 04 08 — MB

| 代号<br>Symbol | 刀片厚度<br>Thickness(mm) |
|--------------|-----------------------|
| 00           | 0.79                  |
| T0           | 0.99                  |
| 01           | 1.59                  |
| T1           | 1.98                  |
| 02           | 2.38                  |
| T2           | 2.58                  |
| 03           | 3.18                  |
| T3           | 3.97                  |
| 04           | 4.76                  |
| T4           | 4.96                  |
| 05           | 5.56                  |
| T5           | 5.95                  |
| 06           | 6.35                  |
| T6           | 6.75                  |
| 07           | 7.94                  |
| 09           | 9.52                  |
| T9           | 9.72                  |
| 11           | 11.11                 |
| 12           | 12.7                  |

厚度指刀片底面与切削刃最高部分之间的高度  
The Height Between Insert Bottom And Nose

后角代号 Clearance Angle

T N M G I6 04 08 — MB

|              |                |
|--------------|----------------|
| <b>A</b><br> | <b>B</b><br>   |
| <b>C</b><br> | <b>D</b><br>   |
| <b>E</b><br> | <b>F</b><br>   |
| <b>G</b><br> | <b>N</b><br>   |
| <b>P</b><br> | 其它后角<br>Others |

精度代号 Tolerance

T N M G I6 04 08 — MB

| 代号<br>Symbol | 刀片高度m<br>公差 (mm)<br>m(mm) | 内接圆φI.C<br>公差 (mm)<br>d=I.C. (mm) | 厚度S<br>公差 (mm)<br>s (mm) | (参考) M级精度详细情况 (按形状、大小分) ●刀片高度公差(mm)<br>(reference) M grade tolerance detail (according to shape, size.)<br>Tolerance of insert nose height |                          |               |                       |                       |                       |             |  |
|--------------|---------------------------|-----------------------------------|--------------------------|--|--------------------------|---------------|-----------------------|-----------------------|-----------------------|-------------|--|
|              |                           |                                   |                          | 内切圆<br>Inscribed Circle  | 正三角形<br>Regular Triangle | 正方形<br>Square | 80° 菱形<br>80° Rhombus | 55° 菱形<br>55° Rhombus | 35° 菱形<br>35° Rhombus | 圆形<br>Round |  |
|              |                           |                                   |                          | 6.35   | ±0.08                    | ±0.08         | ±0.08                 | ±0.11                 | ±0.16                 | ...         |  |
|              |                           |                                   |                          | 9.525  | ±0.08                    | ±0.08         | ±0.08                 | ±0.11                 | ±0.16                 | ...         |  |
|              |                           |                                   |                          | 12.7   | ±0.13                    | ±0.13         | ±0.13                 | ±0.15                 | ...                   | ...         |  |
| <b>A</b>     | ±0.005                    | ±0.025                            | ±0.025                   | 15.875   | ±0.15                    | ±0.15         | ±0.15                 | ±0.18                 | ...                   | ...         |  |
| <b>F</b>     | ±0.005                    | ±0.013                            | ±0.025                   | 19.05  | ±0.15                    | ±0.15         | ±0.15                 | ±0.18                 | ...                   | ...         |  |
| <b>C</b>     | ±0.013                    | ±0.025                            | ±0.025                   | 25.4   | ...                      | ±0.18         | ...                   | ...                   | ...                   | ...         |  |
| <b>H</b>     | ±0.013                    | ±0.013                            | ±0.013                   | ●内切圆φI.C公差 (mm) ●Tolerance of Inscribed Circle   |                          |               |                       |                       |                       |             |  |
| <b>E</b>     | ±0.025                    | ±0.025                            | ±0.025                   | 内切圆<br>Inscribed Circle  | 正三角形<br>Regular Triangle | 正方形<br>Square | 80° 菱形<br>80° Rhombus | 55° 菱形<br>55° Rhombus | 35° 菱形<br>35° Rhombus | 圆形<br>Round |  |
| <b>G</b>     | ±0.025                    | ±0.025                            | ±0.13                    | 6.35   | ±0.05                    | ±0.05         | ±0.05                 | ±0.05                 | ±0.05                 |             |  |
| <b>J</b>     | ±0.005                    | ±0.05-±0.13                       | ±0.025                   | 6.35   | ±0.05                    | ±0.05         | ±0.05                 | ±0.05                 | ±0.05                 |             |  |
| <b>K</b>     | ±0.013                    | ±0.05-±0.13                       | ±0.025                   | 9.525  | ±0.05                    | ±0.05         | ±0.05                 | ±0.05                 | ±0.05                 | ±0.05       |  |
| <b>L</b>     | ±0.025                    | ±0.05-±0.13                       | ±0.025                   | 12.7   | ±0.08                    | ±0.08         | ±0.08                 | ±0.08                 | ...                   | ±0.08       |  |
| <b>M</b>     | ±0.08-±0.18               | ±0.05-±0.13                       | ±0.13                    | 15.875   | ±0.1                     | ±0.1          | ±0.10                 | ±0.10                 | ...                   | ±0.1        |  |
| <b>N</b>     | ±0.08-±0.18               | ±0.05-±0.13                       | ±0.025                   | 19.05  | ±0.1                     | ±0.1          | ±0.10                 | ±0.10                 | ...                   | ±0.1        |  |
| <b>U</b>     | ±0.13-±0.38               | ±0.08-±0.25                       | ±0.13                    | 25.4   | ...                      | ...           | ±0.13                 | ...                   | ...                   | ±0.13       |  |

刀尖圆弧代号 Corner Radius

T N M G I6 04 08 — MB

| 代号<br>Symbol | 刀尖圆弧半径 (mm)<br>Corner Radius (mm) |
|--------------|-----------------------------------|
| 00           | 无圆角                               |
| 02           | 0.2                               |
| 04           | 0.4                               |
| 08           | 0.8                               |
| 12           | 1.2                               |
| 16           | 1.6                               |
| 20           | 2                                 |
| 24           | 2.4                               |
| 32           | 3.2                               |
| X            | 其它 Special                        |

刀片直径尺寸mo (公制)  
Diameter Dimension

圆形刀片  
Round Insert

断屑槽型代号 Chip Breaker

T N M G I6 04 08 — MB

| SM | TM | PM | CQ |
|----|----|----|----|
|    |    |    |    |
| HM | MS | TC | BF |
|    |    |    |    |
| GH | MA |    |    |
|    |    |    |    |









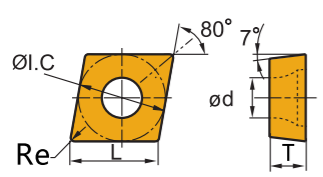




Turning Inserts - Positive  
CCMT (80° Positive)/DCMT (55° Positive)

车削刀片 - 正角型  
CCMT (80° 正角型)/DCMT (55° 正角型)

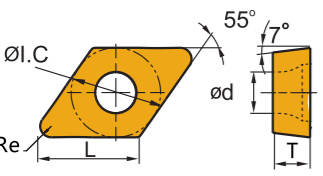
钢件车削 General Turning Inserts for Steel



√ 良好工况 Good working conditions    ○ 一般工况 General working conditions    × 不稳定工况 Unstable working conditions

| 工件材料<br>Workpiece Material | P        | 钢   | √ | √ | √ | ○ | ○ | ○ | ○ | × | × | × | ○ | ○ | × | × | √ |   |                                     |                          |              |   |  |
|----------------------------|----------|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------------------------------------|--------------------------|--------------|---|--|
|                            | M        | 不锈钢 |   |   |   |   |   |   |   |   |   |   | √ | √ | √ | ○ | ○ | ○ | × <td>× <td>× <td>√</td> </td></td> | × <td>× <td>√</td> </td> | × <td>√</td> | √ |  |
| K                          | 铸铁       |     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                                     |                          |              |   |  |
| N                          | 有色金属     |     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                                     |                          |              |   |  |
| S                          | 耐热合金、钛合金 |     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                                     |                          |              |   |  |
| H                          | 淬硬钢      |     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                                     |                          |              |   |  |

| 产品<br>Inserts Shape                       | 型号<br>Type    | 尺寸 Dimensions (mm) |       |      |      |     |        | CVD涂层  |  |  |  | PVD涂层 |  |  |  | 金陶<br>Cermet |  |  |  |  |  |  |  |  |
|---|---------------|--------------------|-------|------|------|-----|--------|--------|--|--|--|-------|--|--|--|--------------|--|--|--|--|--|--|--|--|
|   |               | L                  | ΦI.C  | T    | Φd   | r   | TC4110 | TC4125 |  |  |  |       |  |  |  |              |  |  |  |  |  |  |  |  |
| 通用加工<br>General Machining                 | CCMT060204-HM | 6.4                | 6.35  | 2.38 | 2.8  | 0.4 | ●      | ▲      |  |  |  |       |  |  |  |              |  |  |  |  |  |  |  |  |
|   | CCMT060208-HM | 6.4                | 6.35  | 2.38 | 2.8  | 0.8 | ●      | ▲      |  |  |  |       |  |  |  |              |  |  |  |  |  |  |  |  |
|   | CCMT09T304-HM | 9.7                | 9.525 | 3.97 | 4.4  | 0.4 | ●      | ▲      |  |  |  |       |  |  |  |              |  |  |  |  |  |  |  |  |
|   | CCMT06T308-HM | 9.7                | 9.525 | 3.97 | 4.4  | 0.8 | ●      | ▲      |  |  |  |       |  |  |  |              |  |  |  |  |  |  |  |  |
|   | CCMT120404-HM | 12.9               | 12.7  | 4.76 | 5.56 | 0.4 | ●      | ▲      |  |  |  |       |  |  |  |              |  |  |  |  |  |  |  |  |
| 半精加工-粗加工<br>Semi-finishing to<br>Roughing | CCMT120408-HM | 12.9               | 12.7  | 4.76 | 5.56 | 0.8 | ●      | ▲      |  |  |  |       |  |  |  |              |  |  |  |  |  |  |  |  |
|   | CCMT120412-HM | 12.9               | 12.7  | 4.76 | 5.56 | 1.2 | ●      | ▲      |  |  |  |       |  |  |  |              |  |  |  |  |  |  |  |  |
|   | CCMT060204-SL | 6.4                | 6.35  | 2.38 | 2.8  | 0.4 | ●      | ▲      |  |  |  |       |  |  |  |              |  |  |  |  |  |  |  |  |
|   | CCMT060208-SL | 6.4                | 6.35  | 2.38 | 2.8  | 0.8 | ●      | ▲      |  |  |  |       |  |  |  |              |  |  |  |  |  |  |  |  |
|   | CCMT09T304-SL | 9.7                | 9.525 | 3.97 | 4.4  | 0.4 | ●      | ▲      |  |  |  |       |  |  |  |              |  |  |  |  |  |  |  |  |



√ 良好工况 Good working conditions    ○ 一般工况 General working conditions    × 不稳定工况 Unstable working conditions

| 工件材料<br>Workpiece Material | P        | 钢   | √ | √ | √ | ○ | ○ | ○ | ○ | × | × | × | ○ | ○ | × | × | √ |   |
|----------------------------|----------|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                            | M        | 不锈钢 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | √ |
| K                          | 铸铁       |     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | √ |
| N                          | 有色金属     |     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | √ |
| S                          | 耐热合金、钛合金 |     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | √ |
| H                          | 淬硬钢      |     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | √ |

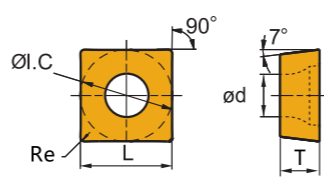
| 产品<br>Inserts Shape       | 型号<br>Type    | 尺寸 Dimensions (mm) |       |      |     |     |        | CVD涂层  |  |  |  | PVD涂层 |  |  |  | 金陶<br>Cermet |  |  |  |  |  |  |  |
|---------------------------|---------------|--------------------|-------|------|-----|-----|--------|--------|--|--|--|-------|--|--|--|--------------|--|--|--|--|--|--|--|
|                           |               | L                  | ΦI.C  | T    | Φd  | r   | TC4110 | TC4125 |  |  |  |       |  |  |  |              |  |  |  |  |  |  |  |
| 通用加工<br>General Machining | DCMT070204-HM | 7.8                | 6.35  | 2.38 | 2.8 | 0.4 | ●      | ▲      |  |  |  |       |  |  |  |              |  |  |  |  |  |  |  |
|                           | DCMT11T304-HM | 11.6               | 9.525 | 3.97 | 4.4 | 0.4 | ●      | ▲      |  |  |  |       |  |  |  |              |  |  |  |  |  |  |  |
|                           | DCMT11T308-HM | 11.6               | 9.525 | 3.97 | 4.4 | 0.8 | ●      | ▲      |  |  |  |       |  |  |  |              |  |  |  |  |  |  |  |

▲为主推荐牌号 Recommended grade (Always stock available) ●按订单生产可选牌号 Make-to-order

Turning Inserts - Positive  
SCMT (Square Positive)

车削刀片 - 正角型  
SCMT (正方形 正角型)

钢件车削 General Turning Inserts for Steel



√ 良好工况 Good working conditions    ○ 一般工况 General working conditions    × 不稳定工况 Unstable working conditions

| 工件材料<br>Workpiece Material | P        | 钢   | √ | √ | √ | ○ | ○ | ○ | ○ | × | × | × | ○ | ○ | × | × | √ |   |
|----------------------------|----------|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                            | M        | 不锈钢 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | √ |
| K                          | 铸铁       |     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | √ |
| N                          | 有色金属     |     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | √ |
| S                          | 耐热合金、钛合金 |     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | √ |
| H                          | 淬硬钢      |     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | √ |

| 产品<br>Inserts Shape       | 型号<br>Type                | 尺寸 Dimensions (mm) |       |      |      |      |        | CVD涂层  |   |  |  | PVD涂层 |  |  |  | 金陶<br>Cermet |  |  |  |  |  |  |  |
|---------------------------|---------------------------|--------------------|-------|------|------|------|--------|--------|---|--|--|-------|--|--|--|--------------|--|--|--|--|--|--|--|
|                           |                           | L                  | ΦI.C  | T    | Φd   | r    | TC4110 | TC4125 |   |  |  |       |  |  |  |              |  |  |  |  |  |  |  |
| 通用加工<br>General Machining | SCMT09T304-HM             | 9.525              | 9.525 | 3.97 | 4.4  | 0.4  | ●      | ▲      |   |  |  |       |  |  |  |              |  |  |  |  |  |  |  |
|                           | SCMT09T308-HM             | 9.525              | 9.525 | 3.97 | 4.4  | 0.8  | ●      | ▲      |   |  |  |       |  |  |  |              |  |  |  |  |  |  |  |
|                           | SCMT120404-HM             | 12.7               | 12.7  | 4.76 | 5.56 | 0.4  | ●      | ▲      |   |  |  |       |  |  |  |              |  |  |  |  |  |  |  |
|                           | SCMT120408-HM             | 12.7               | 12.7  | 4.76 | 5.56 | 0.8  | ●      | ▲      |   |  |  |       |  |  |  |              |  |  |  |  |  |  |  |
|                           | 通用加工<br>General Machining | SCMT120412-HM      | 12.9  | 12.7 | 4.76 | 5.56 | 1.2    | ●      | ▲ |  |  |       |  |  |  |              |  |  |  |  |  |  |  |

TCMT (Triangle Positive)

TCMT (三角形 正角型)

钢件车削 General Turning Inserts for Steel



√ 良好工况 Good working conditions    ○ 一般工况 General working conditions    × 不稳定工况 Unstable working conditions

| 工件材料<br>Workpiece Material | P        | 钢   | √ | √ | √ | ○ | ○ | ○ | ○ | × | × | × | ○ | ○ | × | × | √ |   |
|----------------------------|----------|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                            | M        | 不锈钢 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | √ |
| K                          | 铸铁       |     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | √ |
| N                          | 有色金属     |     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | √ |
| S                          | 耐热合金、钛合金 |     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | √ |
| H                          | 淬硬钢      |     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | √ |

| 产品<br>Inserts Shape       | 型号<br>Type                | 尺寸 Dimensions (mm) |      |       |      |     |        | CVD涂层  |   |  |  | PVD涂层 |  |  |  | 金陶<br>Cermet |  |  |  |  |  |  |  |  |
|---------------------------|---------------------------|--------------------|------|-------|------|-----|--------|--------|---|--|--|-------|--|--|--|--------------|--|--|--|--|--|--|--|--|
|                           |                           | L                  | ΦI.C | T     | Φd   | r   | TC4110 | TC4125 |   |  |  |       |  |  |  |              |  |  |  |  |  |  |  |  |
| 通用加工<br>General Machining | TCMT090204-HM             | 9.6                | 5.56 | 2.38  | 2.5  | 0.4 | ●      | ▲      |   |  |  |       |  |  |  |              |  |  |  |  |  |  |  |  |
|                           | TCMT090208-HM             | 9.6                | 5.56 | 2.38  | 2.5  | 0.8 | ●      | ▲      |   |  |  |       |  |  |  |              |  |  |  |  |  |  |  |  |
|                           | TCMT110204-HM             | 11                 | 6.35 | 2.38  | 2.8  | 0.4 | ●      | ▲      |   |  |  |       |  |  |  |              |  |  |  |  |  |  |  |  |
|                           | TCMT110208-HM             | 11                 | 6.35 | 2.38  | 2.8  | 0.8 | ●      | ▲      |   |  |  |       |  |  |  |              |  |  |  |  |  |  |  |  |
|                           | 通用加工<br>General Machining | TCMT16T304-HM      | 16.5 | 9.525 | 3.97 | 4.4 | 0.4    | ●      | ▲ |  |  |       |  |  |  |              |  |  |  |  |  |  |  |  |
|                           | 通用加工<br>General Machining | TCMT16T308-HM      | 16.5 | 9.525 | 3.97 | 4.4 | 0.8    | ●      | ▲ |  |  |       |  |  |  |              |  |  |  |  |  |  |  |  |

▲为主推荐牌号 Recommended grade (Always stock available) ●按订单生产可选牌号 Make-to-order









Turning Inserts - Negative  
TNMG (60° Negative)

车削刀片 - 负角型  
TNMG (60° 负角型)

Turning Inserts - Negative  
VNMG (35° Negative)

车削刀片 - 负角型  
VNMG (35° 负角型)

不锈钢车削 General Turning Inserts for Stainless Steel

√ 良好工况 Good working conditions    ○ 一般工况 General working conditions    × 不稳定工况 Unstable working conditions



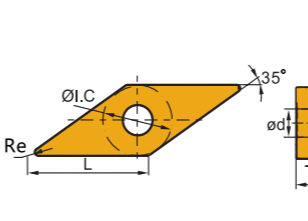
| 工件材料<br>Workpiece Material | √ 良好工况 Good working conditions    ○ 一般工况 General working conditions    × 不稳定工况 Unstable working conditions |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|
|                            | P  | M | K | N | S | H |   |   |   |   |   |   |   |
| P 钢                        |  |   |   |   |   |   |   |   |   |   |   | ○ |   |
| M 不锈钢                      | √  | √ | √ | √ | √ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| K 铸铁                       |  |   |   |   |   |   |   |   |   |   |   | × | × |
| N 有色金属                     |  |   |   |   |   |   |   |   |   |   |   |   |   |
| S 耐热合金、钛合金                 |  |   |   |   |   |   |   |   |   |   |   |   | √ |
| H 淬硬钢                      |  |   |   |   |   |   |   |   |   |   |   |   |   |

| 产品<br>Inserts Shape                     | 型号<br>Type      | 尺寸 Dimensions (mm) |       |      |      |     | PVD涂层  |        |  |  |  |  |  |  |  |  |  |  | 金陶<br>Cermets |  |  |  |  |  |  |  |
|---|-----------------|--------------------|-------|------|------|-----|--------|--------|--|--|--|--|--|--|--|--|--|--|---------------|--|--|--|--|--|--|--|
|   |                 | L                  | ØI.C  | T    | Φd   | r   | TC1215 | TC1025 |  |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |
|   | TNMG160404-SM   | 16.5               | 9.525 | 4.76 | 3.81 | 0.4 | ●      | ▲      |  |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |
|   | TNMG160408-SM   | 16.5               | 9.525 | 4.76 | 3.81 | 0.8 | ●      | ▲      |  |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |
|   | TNMG160412-SM   | 16.5               | 9.525 | 4.76 | 3.81 | 1.2 | ●      | ▲      |  |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |
| 精加工<br>Finishing                        | TNMG160404-BF   | 16.5               | 9.525 | 4.76 | 3.81 | 0.4 | ●      | ▲      |  |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |
|   | TNMG160408-BF   | 16.5               | 9.525 | 4.76 | 3.81 | 0.8 | ●      | ▲      |  |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |
|   | TNMG160412-BF   | 16.5               | 9.525 | 4.76 | 3.81 | 1.2 | ●      | ▲      |  |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |
| 精加工<br>Finishing                        | TNMG160404-MS   | 16.5               | 9.525 | 4.76 | 3.81 | 0.4 | ●      | ▲      |  |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |
|   | TNMG160408-MS   | 16.5               | 9.525 | 4.76 | 3.81 | 0.8 | ●      | ▲      |  |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |
|   | TNMG160412-MS   | 16.5               | 9.525 | 4.76 | 3.81 | 1.2 | ●      | ▲      |  |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |
| 半精加工-精加工<br>Semi-finishing to Finishing | TNMG160404-MA   | 16.5               | 9.525 | 4.76 | 3.81 | 0.4 | ●      | ▲      |  |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |
|   | TNMG160408-MA   | 16.5               | 9.525 | 4.76 | 3.81 | 0.8 | ●      | ▲      |  |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |
|   | TNMG160412-MA   | 16.5               | 9.525 | 4.76 | 3.81 | 1.2 | ●      | ▲      |  |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |
| 半精加工-粗加工<br>Semi-finishing to Roughing  | TNMG160404L/R-S | 16.5               | 9.525 | 4.76 | 3.81 | 0.4 | ●      | ▲      |  |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |
|   | TNMG160408L/R-S | 16.5               | 9.525 | 4.76 | 3.81 | 0.8 | ●      | ▲      |  |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |
|   | TNMG160412L/R-S | 16.5               | 9.525 | 4.76 | 3.81 | 1.2 | ●      | ▲      |  |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |
| 左右手<br>R/L                              |                 |                    |       |      |      |     |        |        |  |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |

▲为主推荐牌号 Recommended grade (Always stock available) ●按订单生产可选牌号 Make-to-order

不锈钢车削 General Turning Inserts for Stainless Steel

√ 良好工况 Good working conditions    ○ 一般工况 General working conditions    × 不稳定工况 Unstable working conditions



| 工件材料<br>Workpiece Material | √ 良好工况 Good working conditions    ○ 一般工况 General working conditions    × 不稳定工况 Unstable working conditions |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|
|                            | P  | M | K | N | S | H |   |   |   |   |   |   |   |
| P 钢                        |  |   |   |   |   |   |   |   |   |   |   | ○ |   |
| M 不锈钢                      | √  | √ | √ | √ | √ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| K 铸铁                       |  |   |   |   |   |   |   |   |   |   |   | × | × |
| N 有色金属                     |  |   |   |   |   |   |   |   |   |   |   |   |   |
| S 耐热合金、钛合金                 |  |   |   |   |   |   |   |   |   |   |   |   | √ |
| H 淬硬钢                      |  |   |   |   |   |   |   |   |   |   |   |   |   |

| 产品<br>Inserts Shape                     | 型号<br>Type    | 尺寸 Dimensions (mm) |       |      |      |     | PVD涂层  |        |  |  |  |  |  |  |  |  |  |  | 金陶<br>Cermets |  |  |  |  |  |  |  |
|---|---------------|--------------------|-------|------|------|-----|--------|--------|--|--|--|--|--|--|--|--|--|--|---------------|--|--|--|--|--|--|--|
|   |               | L                  | ØI.C  | T    | Φd   | r   | TC1215 | TC1025 |  |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |
|   | VNMG160404-BF | 16.6               | 9.525 | 4.76 | 3.81 | 0.4 | ●      | ▲      |  |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |
|   | VNMG160408-BF | 16.6               | 9.525 | 4.76 | 3.81 | 0.8 | ●      | ▲      |  |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |
|   | VNMG160412-BF | 16.6               | 9.525 | 4.76 | 3.81 | 1.2 | ●      | ▲      |  |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |
| 精加工<br>Finishing                        | VNMG160404-MS | 16.6               | 9.525 | 4.76 | 3.81 | 0.4 | ●      | ▲      |  |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |
|   | VNMG160408-MS | 16.6               | 9.525 | 4.76 | 3.81 | 0.8 | ●      | ▲      |  |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |
|   | VNMG160412-MS | 16.6               | 9.525 | 4.76 | 3.81 | 1.2 | ●      | ▲      |  |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |
| 半精加工-精加工<br>Semi-finishing to Finishing | VNMG160404-MA | 16.6               | 9.525 | 4.76 | 3.81 | 0.4 | ●      | ▲      |  |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |
|   | VNMG160408-MA | 16.6               | 9.525 | 4.76 | 3.81 | 0.8 | ●      | ▲      |  |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |
|   | VNMG160412-MA | 16.6               | 9.525 | 4.76 | 3.81 | 1.2 | ●      | ▲      |  |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |
| 半精加工<br>Semi-finishing                  | VNMG160404-SM | 16.6               | 9.525 | 4.76 | 3.81 | 0.4 | ●      | ▲      |  |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |
|   | VNMG160408-SM | 16.6               | 9.525 | 4.76 | 3.81 | 0.8 | ●      | ▲      |  |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |
|   | VNMG160412-SM | 16.6               | 9.525 | 4.76 | 3.81 | 1.2 | ●      | ▲      |  |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |

▲为主推荐牌号 Recommended grade (Always stock available) ●按订单生产可选牌号 Make-to-order



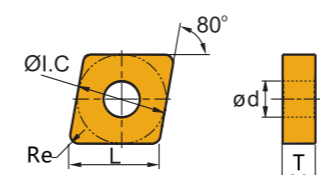




Turning Inserts - Negative  
CNMG / CNMA (80° Negative)




车削刀片 - 负角型  
CNMG/CNMA (80°负角型)

铸铁车削 General Turning Inserts for Cast Iron



√ 良好工况 Good working conditions    ○ 一般工况 General working conditions    × 不稳定工况 Unstable working conditions

| 工件材料<br>Workpiece Material | P | M | K | N | S | H | 钢        | √ | ○ | ○ |   |   |   |   |   |   |   |   |   | √ | × | × | × | √ |   |
|----------------------------|---|---|---|---|---|---|----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 钢                          |   |   |   |   |   |   | 钢        | √ | ○ | ○ |   |   |   |   |   |   |   |   |   | √ | × | × | × | √ |   |
| 不锈钢                        |   |   |   |   |   |   | 不锈钢      |   |   |   |   |   |   |   |   |   |   |   |   |   | × | × | × | × |   |
| 铸铁                         |   |   |   |   |   |   | 铸铁       |   |   | √ | √ | √ | √ | ○ | ○ | × | × | × | × | √ | √ | × | × | × | √ |
| 有色金属                       |   |   |   |   |   |   | 有色金属     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 耐热合金、钛合金                   |   |   |   |   |   |   | 耐热合金、钛合金 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 淬硬钢                        |   |   |   |   |   |   | 淬硬钢      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

| 产品<br>Inserts Shape   | 型号<br>Type    | 尺寸 Dimensions (mm) |      |      |      |     | CVD涂层 |  |        |  | PVD涂层  |  |  |  | 金陶<br>Cermets |  |  |  |  |  |  |  |  |  |  |  |
|---|---------------|--------------------|------|------|------|-----|-------|--|--------|--|--------|--|--|--|---------------|--|--|--|--|--|--|--|--|--|--|--|
|   |               | L                  | ØI.C | T    | Φd   | r   |       |  | TC3015 |  | TC3125 |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |
| <br>半精加工<br>Semi-finishing                     | CNMG120404-TC | 12.7               | 12.7 | 4.76 | 5.16 | 0.4 |       |  | ●      |  | ▲      |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |
|   | CNMG120408-TC | 12.7               | 12.7 | 4.76 | 5.16 | 0.8 |       |  | ●      |  | ▲      |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |
|   | CNMG120412-TC | 12.7               | 12.7 | 4.76 | 5.16 | 1.2 |       |  | ●      |  | ▲      |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |
| <br>半精加工-粗加工<br>Semi-finishing to<br>Roughing | CNMG120404-GH | 12.7               | 12.7 | 4.76 | 5.16 | 0.4 |       |  | ●      |  | ▲      |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |
|   | CNMG120408-GH | 12.7               | 12.7 | 4.76 | 5.16 | 0.8 |       |  | ●      |  | ▲      |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |
|   | CNMG120412-GH | 12.7               | 12.7 | 4.76 | 5.16 | 1.2 |       |  | ●      |  | ▲      |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |
| <br>平板<br>Flat                               | CNMA120404    | 12.7               | 12.7 | 4.76 | 5.16 | 0.4 |       |  | ●      |  | ▲      |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |
|   | CNMA120408    | 12.7               | 12.7 | 4.76 | 5.16 | 0.8 |       |  | ●      |  | ▲      |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |
|   | CNMA120412    | 12.7               | 12.7 | 4.76 | 5.16 | 1.2 |       |  | ●      |  | ▲      |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |

▲为主推荐牌号 Recommended grade (Always stock available) ●按订单生产可选牌号 Make-to-order

A 车削刀片

B 铣削刀片

C 孔加工刀片

# TURNING INSERTS FOR CAST IRON

## 铸铁车削

















Turning Inserts - Positive  
CCMT (80° Positive)

车削刀片 - 正角型  
CCMT (80° 正角型)

Turning Inserts - Positive  
DCMT (55° Positive)

车削刀片 - 正角型  
DCMT (55° 正角型)

淬硬钢车削 Turning Inserts for Hardened Steel

√ 良好工况 Good working conditions   ○ 一般工况 General working conditions   × 不稳定工况 Unstable working conditions

| 工件材料<br>Workpiece Material | PVD涂层 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------------------|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                            | P     | M | K | N | S | H |   |   |   |   |   |   |   |   |   |
| P 钢                        |       |   |   |   |   | ○ |   |   |   |   |   | ○ | × | × | × |
| M 不锈钢                      | √     | √ | √ | √ | √ | ○ | ○ | ○ | ○ | ○ | × | × | × | × | × |
| K 铸铁                       |       |   |   |   |   |   |   |   |   |   | × |   |   |   | × |
| N 有色金属                     |       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| S 耐热合金、钛合金                 |       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| H 淬硬钢                      | √     | ○ | √ |   |   |   |   |   |   |   |   |   |   |   | ○ |

| 产品<br>Inserts Shape   | 型号<br>Type    | 尺寸 Dimensions (mm) |       |      |      |     | PVD涂层  |  |  |  |  |  |  |  |  |  |  |        |   |  |  |
|---|---------------|--------------------|-------|------|------|-----|--------|--|--|--|--|--|--|--|--|--|--|--------|---|--|--|
|   |               | L                  | ØI.C  | T    | Φd   | r   | TC6010 |  |  |  |  |  |  |  |  |  |  | TC6020 |   |  |  |
|  | CCMT060204-MF | 6.4                | 6.35  | 2.38 | 2.8  | 0.4 | ▲      |  |  |  |  |  |  |  |  |  |  |        | ● |  |  |
|   | CCMT060208-MF | 6.4                | 9.525 | 3.97 | 4.4  | 0.2 | ▲      |  |  |  |  |  |  |  |  |  |  |        | ● |  |  |
|   | CCMT09T304-MF | 9.7                | 9.525 | 3.97 | 4.4  | 0.4 | ▲      |  |  |  |  |  |  |  |  |  |  |        | ● |  |  |
|   | CCMT09T308-MF | 9.7                | 9.525 | 3.97 | 4.4  | 0.8 | ▲      |  |  |  |  |  |  |  |  |  |  |        | ● |  |  |
|   | CCMT120404-MF | 12.9               | 12.7  | 4.76 | 5.56 | 0.4 | ▲      |  |  |  |  |  |  |  |  |  |  |        | ● |  |  |
| 半精加工<br>Semi-finishing  | CCMT120408-MF | 12.9               | 12.7  | 4.76 | 5.56 | 0.8 | ▲      |  |  |  |  |  |  |  |  |  |  |        | ● |  |  |
|   | CCMT060204-SM | 6.4                | 6.35  | 2.38 | 2.8  | 0.4 | ▲      |  |  |  |  |  |  |  |  |  |  |        | ● |  |  |
|   | CCMT060208-SM | 6.4                | 9.525 | 3.97 | 4.4  | 0.2 | ▲      |  |  |  |  |  |  |  |  |  |  |        | ● |  |  |
|   | CCMT09T304-SM | 9.7                | 9.525 | 3.97 | 4.4  | 0.4 | ▲      |  |  |  |  |  |  |  |  |  |  |        | ● |  |  |
| 精加工<br>Finishing  | CCMT09T308-SM | 9.7                | 9.525 | 3.97 | 4.4  | 0.8 | ▲      |  |  |  |  |  |  |  |  |  |  |        | ● |  |  |
|   | CCMT120404-SM | 12.9               | 12.7  | 4.76 | 5.56 | 0.4 | ▲      |  |  |  |  |  |  |  |  |  |  |        | ● |  |  |
|   | CCMT120408-SM | 12.9               | 12.7  | 4.76 | 5.56 | 0.8 | ▲      |  |  |  |  |  |  |  |  |  |  |        | ● |  |  |

▲ 为主推荐牌号 Recommended grade (Always stock available) ● 按订单生产可选牌号 Make-to-order

淬硬钢车削 Turning Inserts for Hardened Steel

√ 良好工况 Good working conditions   ○ 一般工况 General working conditions   × 不稳定工况 Unstable working conditions

| 工件材料<br>Workpiece Material | PVD涂层 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------------------|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                            | P     | M | K | N | S | H |   |   |   |   |   |   |   |   |   |
| P 钢                        |       |   |   |   |   | ○ |   |   |   |   |   | ○ | × | × | × |
| M 不锈钢                      | √     | √ | √ | √ | √ | ○ | ○ | ○ | ○ | ○ | × | × | × | × | × |
| K 铸铁                       |       |   |   |   |   |   |   |   |   |   | × |   |   |   | × |
| N 有色金属                     |       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| S 耐热合金、钛合金                 |       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| H 淬硬钢                      | √     | ○ | √ |   |   |   |   |   |   |   |   |   |   |   | ○ |

| 产品<br>Inserts Shape   | 型号<br>Type    | 尺寸 Dimensions (mm) |       |      |     |     | PVD涂层  |  |  |  |  |  |  |  |  |  |  |        |   |  |  |
|---|---------------|--------------------|-------|------|-----|-----|--------|--|--|--|--|--|--|--|--|--|--|--------|---|--|--|
|   |               | L                  | ØI.C  | T    | Φd  | r   | TC6010 |  |  |  |  |  |  |  |  |  |  | TC6020 |   |  |  |
|  | DCMT070204-MF | 7.8                | 6.35  | 2.38 | 2.8 | 0.4 | ▲      |  |  |  |  |  |  |  |  |  |  |        | ● |  |  |
|   | DCMT070208-MF | 7.8                | 6.35  | 2.38 | 2.8 | 0.8 | ▲      |  |  |  |  |  |  |  |  |  |  |        | ● |  |  |
|   | DCMT11T304-MF | 11.6               | 9.525 | 3.97 | 4.4 | 0.4 | ▲      |  |  |  |  |  |  |  |  |  |  |        | ● |  |  |
| 半精加工<br>Semi-finishing  | DCMT11T308-MF | 11.6               | 9.525 | 3.97 | 4.4 | 0.8 | ▲      |  |  |  |  |  |  |  |  |  |  |        | ● |  |  |
|   | DCMT070204-SM | 7.8                | 6.35  | 2.38 | 2.8 | 0.4 | ▲      |  |  |  |  |  |  |  |  |  |  |        | ● |  |  |
|   | DCMT070208-SM | 7.8                | 6.35  | 2.38 | 2.8 | 0.8 | ▲      |  |  |  |  |  |  |  |  |  |  |        | ● |  |  |
|   | DCMT11T304-SM | 11.6               | 9.525 | 3.97 | 4.4 | 0.4 | ▲      |  |  |  |  |  |  |  |  |  |  |        | ● |  |  |
|   | DCMT11T308-SM | 11.6               | 9.525 | 3.97 | 4.4 | 0.8 | ▲      |  |  |  |  |  |  |  |  |  |  |        | ● |  |  |
| 精加工<br>Finishing  |               |                    |       |      |     |     |        |  |  |  |  |  |  |  |  |  |  |        |   |  |  |


SCMT (90° Positive)

SCMT (90° 正角型)

√ 良好工况 Good working conditions   ○ 一般工况 General working conditions   × 不稳定工况 Unstable working conditions

| 工件材料<br>Workpiece Material | PVD涂层 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------------------|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                            | P     | M | K | N | S | H |   |   |   |   |   |   |   |   |   |
| P 钢                        |       |   |   |   |   | ○ |   |   |   |   |   | ○ | × | × | × |
| M 不锈钢                      | √     | √ | √ | √ | √ | ○ | ○ | ○ | ○ | ○ | × | × | × | × | × |
| K 铸铁                       |       |   |   |   |   |   |   |   |   |   | × |   |   |   | × |
| N 有色金属                     |       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| S 耐热合金、钛合金                 |       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| H 淬硬钢                      | √     | ○ | √ |   |   |   |   |   |   |   |   |   |   |   | ○ |

| 产品<br>Inserts Shape   | 型号<br>Type    | 尺寸 Dimensions (mm) |       |      |      |     | PVD涂层  |  |  |  |  |  |  |  |  |  |  |        |   |  |  |
|---|---------------|--------------------|-------|------|------|-----|--------|--|--|--|--|--|--|--|--|--|--|--------|---|--|--|
|   |               | L                  | ØI.C  | T    | Φd   | r   | TC6010 |  |  |  |  |  |  |  |  |  |  | TC6020 |   |  |  |
|  | SCMT09T304-MF | 9.53               | 9.525 | 3.97 | 2.8  | 0.4 | ▲      |  |  |  |  |  |  |  |  |  |  |        | ● |  |  |
|   | SCMT09T308-MF | 9.53               | 9.525 | 3.97 | 2.8  | 0.8 | ▲      |  |  |  |  |  |  |  |  |  |  |        | ● |  |  |
|   | SCMT120404-MF | 12.7               | 12.7  | 4.76 | 5.56 | 0.4 | ▲      |  |  |  |  |  |  |  |  |  |  |        | ● |  |  |
|   | SCMT120408-MF | 12.7               | 12.7  | 4.76 | 5.56 | 0.8 | ▲      |  |  |  |  |  |  |  |  |  |  |        | ● |  |  |
| 半精加工<br>Semi-finishing  | SCMT09T304-SM | 9.53               | 9.525 | 3.97 | 2.8  | 0.4 | ▲      |  |  |  |  |  |  |  |  |  |  |        | ● |  |  |
|   | SCMT09T308-SM | 9.53               | 9.525 | 3.97 | 2.8  | 0.8 | ▲      |  |  |  |  |  |  |  |  |  |  |        | ● |  |  |
|   | SCMT120404-SM | 12.7               | 12.7  | 4.76 | 5.56 | 0.4 | ▲      |  |  |  |  |  |  |  |  |  |  |        | ● |  |  |
|   | SCMT120408-SM | 12.7               | 12.7  | 4.76 | 5.56 | 0.8 | ▲      |  |  |  |  |  |  |  |  |  |  |        | ● |  |  |
| 精加工<br>Finishing  |               |                    |       |      |      |     |        |  |  |  |  |  |  |  |  |  |  |        |   |  |  |

▲ 为主推荐牌号 Recommended grade (Always stock available) ● 按订单生产可选牌号 Make-to-order

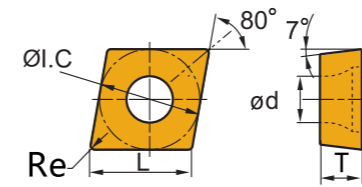




Turning Inserts - Positive  
CCGT (80° Positive)

车削刀片 - 正角型  
CCGT (80°正角型)

**小零件加工** Small Parts Processing



√ 良好工况 Good working conditions   ◯ 一般工况 General working conditions   × 不稳定工况 Unstable working conditions

| 工件材料<br>Workpiece Material | P         | 钢   |   |   |   |   | √ | ○ |   | ○ | × | × | × | × |   |
|----------------------------|-----------|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                            | M         | 不锈钢 |   | √ | √ | √ | √ | √ | ○ | ○ | ○ | ○ | × | × | × |
| K                          | 铸铁        |     |   |   |   |   |   |   |   |   |   |   | × | × |   |
| N                          | 有色金属      |     |   |   |   |   |   |   |   |   |   |   |   |   |   |
| S                          | 耐热合金, 钛合金 |     |   |   |   |   |   |   |   |   |   |   |   |   |   |
| H                          | 淬硬钢       |     | √ |   |   |   |   | √ |   |   |   |   |   |   |   |

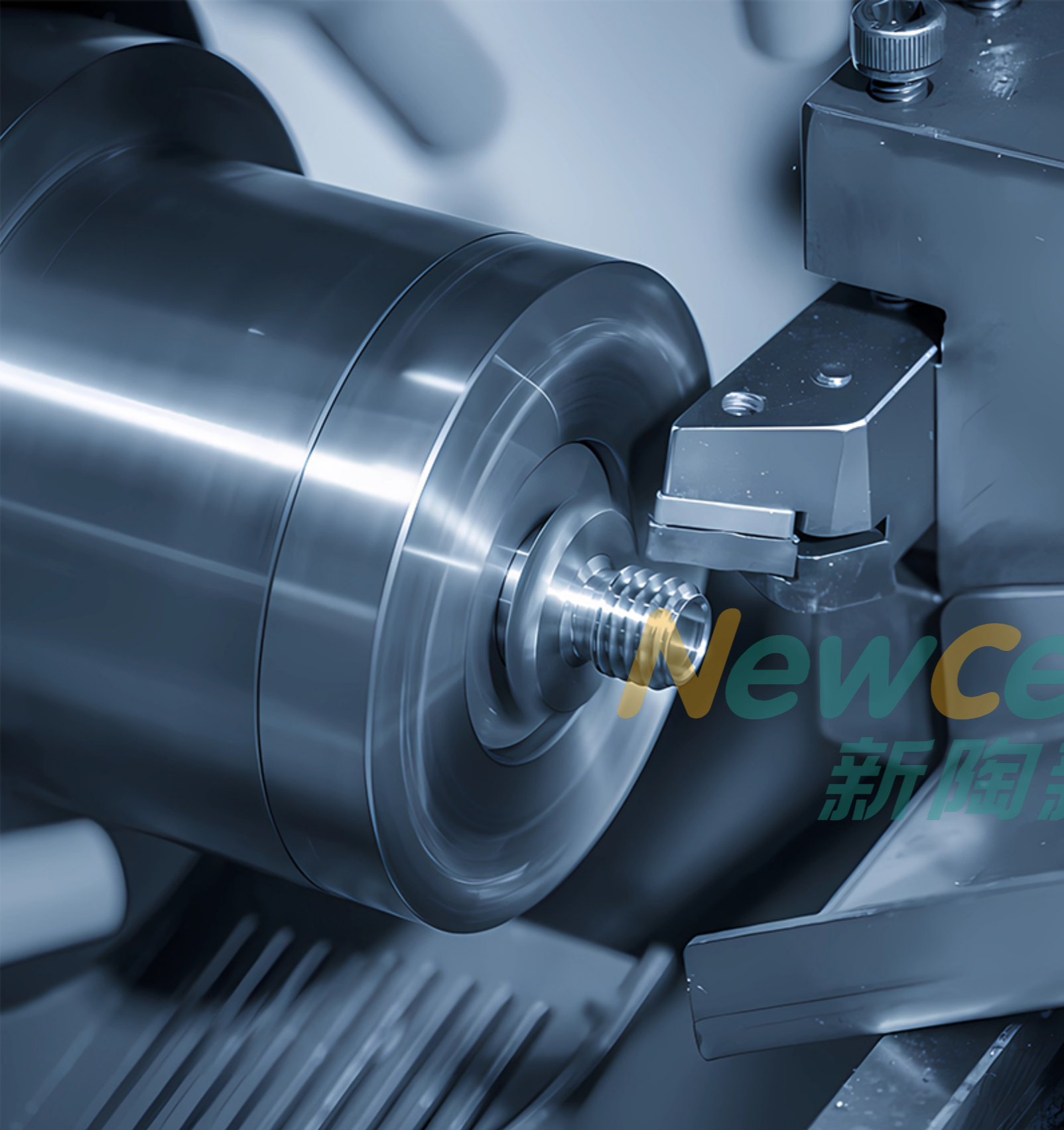
| 产品<br>Inserts Shape | 型号<br>Type      | 尺寸 Dimensions (mm) |       |      |     |     | PVD涂层 |  |  |  |  |  |  |  | 金陶<br>Cermet<br>TX920 |  |  |  |        |   |   |  |  |  |  |        |  |  |  |  |  |  |  |   |  |   |  |   |   |   |  |  |
|---------------------|-----------------|--------------------|-------|------|-----|-----|-------|--|--|--|--|--|--|--|-----------------------|--|--|--|--------|---|---|--|--|--|--|--------|--|--|--|--|--|--|--|---|--|---|--|---|---|---|--|--|
|                     |                 | L                  | ØI.C  | T    | Φd  | r   |       |  |  |  |  |  |  |  |                       |  |  |  | TC1205 |   |   |  |  |  |  | TC1225 |  |  |  |  |  |  |  |   |  |   |  |   |   |   |  |  |
| 精加工<br>Finishing    | CCGT030101L/R   | 3.6                | 3.5   | 1.4  | 1.9 | 0.1 |       |  |  |  |  |  |  |  |                       |  |  |  | ▲      |   |   |  |  |  |  |        |  |  |  |  |  |  |  | ▲ |  |   |  |   |   |   |  |  |
|                     | CCGT030102L/R   | 3.6                | 3.5   | 1.4  | 1.9 | 0.2 |       |  |  |  |  |  |  |  |                       |  |  |  | ▲      |   |   |  |  |  |  |        |  |  |  |  |  |  |  |   |  | ▲ |  |   |   |   |  |  |
|                     | CCGT030104L/R   | 3.6                | 3.5   | 1.4  | 1.9 | 0.4 |       |  |  |  |  |  |  |  |                       |  |  |  | ▲      |   |   |  |  |  |  |        |  |  |  |  |  |  |  |   |  |   |  | ▲ |   |   |  |  |
|                     | CCGT040101L/R   | 4.4                | 4.3   | 1.8  | 2.3 | 0.1 |       |  |  |  |  |  |  |  |                       |  |  |  |        | ▲ |   |  |  |  |  |        |  |  |  |  |  |  |  |   |  |   |  |   | ▲ |   |  |  |
|                     | CCGT040102L/R   | 4.4                | 4.3   | 1.8  | 2.3 | 0.2 |       |  |  |  |  |  |  |  |                       |  |  |  |        | ▲ |   |  |  |  |  |        |  |  |  |  |  |  |  |   |  |   |  |   | ▲ |   |  |  |
| 精加工<br>Finishing    | CCGT040104L/R   | 4.4                | 4.3   | 1.8  | 2.3 | 0.4 |       |  |  |  |  |  |  |  |                       |  |  |  | ▲      |   |   |  |  |  |  |        |  |  |  |  |  |  |  |   |  |   |  |   | ▲ |   |  |  |
|                     | CCGT060201L/R-B | 6.4                | 6.35  | 2.38 | 2.8 | 0.1 |       |  |  |  |  |  |  |  |                       |  |  |  |        | ▲ |   |  |  |  |  |        |  |  |  |  |  |  |  |   |  |   |  |   | ▲ |   |  |  |
|                     | CCGT060202L/R-B | 6.4                | 6.35  | 2.38 | 2.8 | 0.2 |       |  |  |  |  |  |  |  |                       |  |  |  |        | ▲ |   |  |  |  |  |        |  |  |  |  |  |  |  |   |  |   |  |   |   | ▲ |  |  |
|                     | CCGT060204L/R-B | 6.4                | 6.35  | 2.38 | 2.8 | 0.4 |       |  |  |  |  |  |  |  |                       |  |  |  |        | ▲ |   |  |  |  |  |        |  |  |  |  |  |  |  |   |  |   |  |   |   | ▲ |  |  |
|                     | CCGT09T301L/R-B | 9.7                | 9.525 | 3.97 | 4.4 | 0.1 |       |  |  |  |  |  |  |  |                       |  |  |  |        |   | ▲ |  |  |  |  |        |  |  |  |  |  |  |  |   |  |   |  |   |   | ▲ |  |  |
| 精加工<br>Finishing    | CCGT09T302L/R-B | 9.7                | 9.525 | 3.97 | 4.4 | 0.2 |       |  |  |  |  |  |  |  |                       |  |  |  |        | ▲ |   |  |  |  |  |        |  |  |  |  |  |  |  |   |  |   |  |   |   | ▲ |  |  |
|                     | CCGT09T304L/R-B | 9.7                | 9.525 | 3.97 | 4.4 | 0.4 |       |  |  |  |  |  |  |  |                       |  |  |  |        | ▲ |   |  |  |  |  |        |  |  |  |  |  |  |  |   |  |   |  |   |   | ▲ |  |  |

▲ 为主推荐牌号 Recommended grade (Always stock available) ● 按订单生产可选牌号 Make-to-order

A 车削刀片

B 铣削刀片

C 孔加工刀片



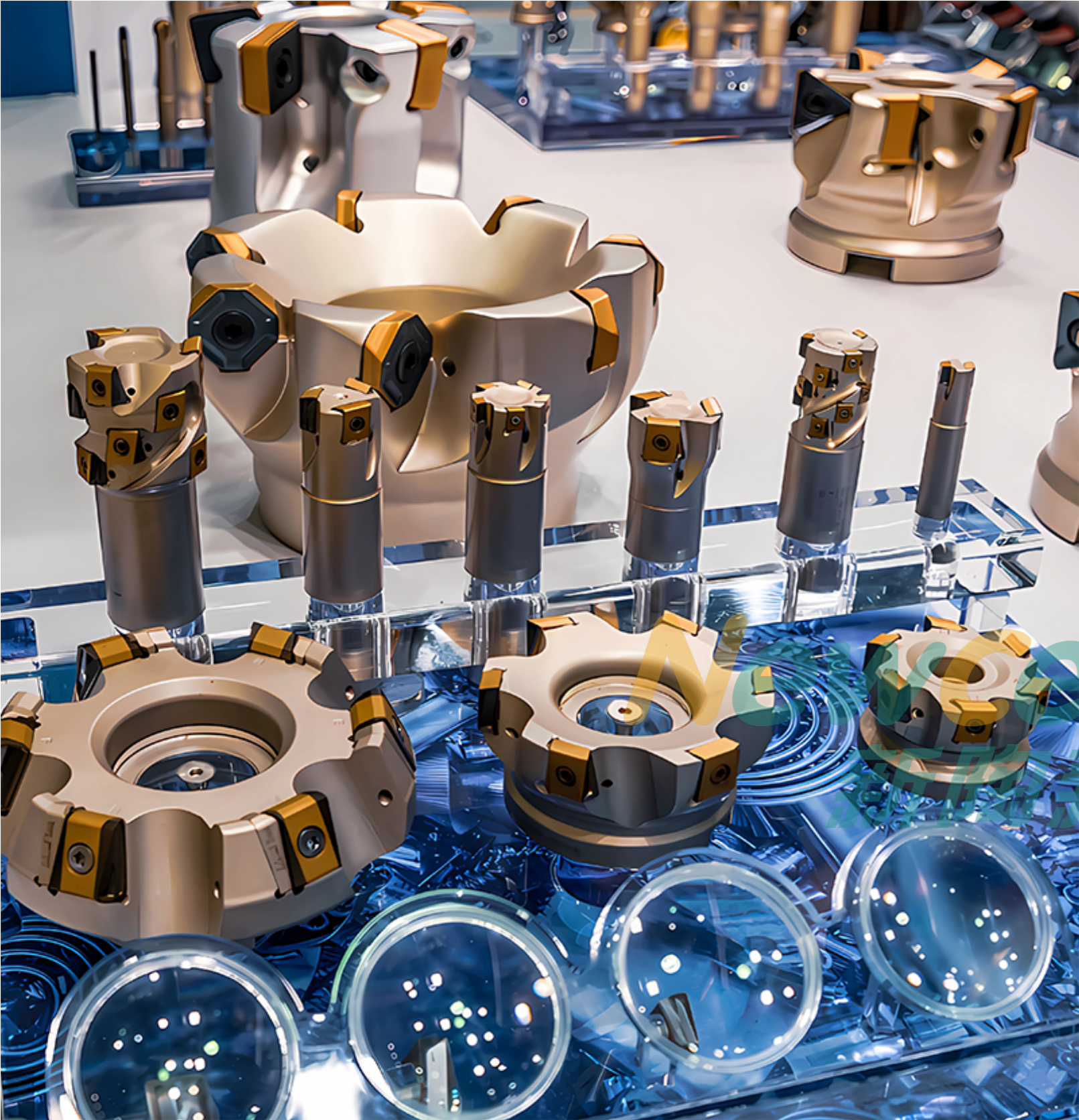
SMALL PARTS PROCESSING

小零件加工





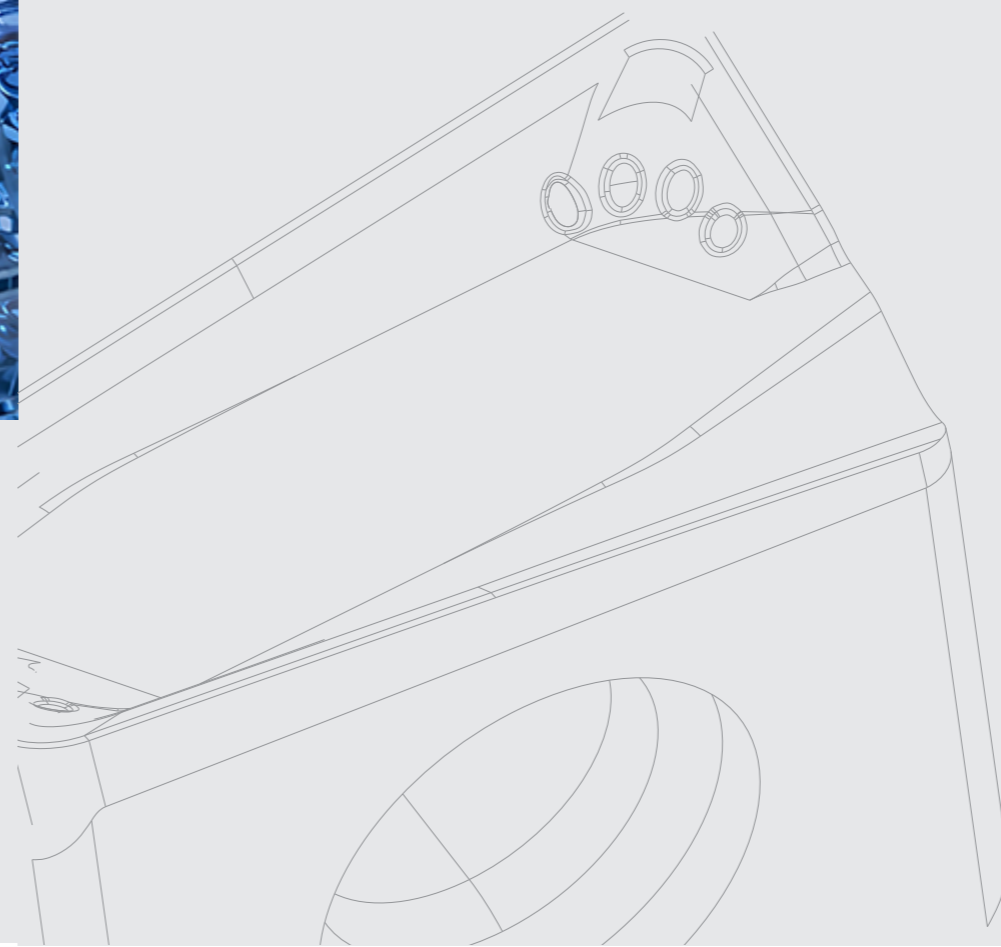




## 铣削刀片 Milling Inserts

|            |                                       |     |
|------------|---------------------------------------|-----|
| 铣削刀片型号命名规则 | Milling Insert Naming Rules           | 059 |
| 铣削刀片牌号介绍   | Milling Inserts Grade Informations    | 061 |
| 铣削产品牌号一览表  | Milling Inserts Recommend Grade Table | 063 |
| 铣削刀片       | Milling Inserts                       | 064 |

ermets®  
新材



## MILLING INSERTS

### 铣削刀片



### 铣削刀片型号命名规则

### Milling Insert Naming Rules

#### 形状代号 Shape

A P M T II 35 PD E R - GM

|          |          |          |
|----------|----------|----------|
| <b>A</b> | <b>B</b> | <b>C</b> |
|          |          |          |
| <b>D</b> | <b>E</b> | <b>H</b> |
|          |          |          |
| <b>K</b> | <b>L</b> | <b>M</b> |
|          |          |          |
| <b>O</b> | <b>P</b> | <b>R</b> |
|          |          |          |
| <b>S</b> | <b>T</b> | <b>T</b> |
|          |          |          |
| <b>V</b> | <b>W</b> | <b>Z</b> |
|          |          | 其它       |

#### 断屑槽及夹固形式代号 Chip Breaker and Hole

A P M T II 35 PD E R - GM

| 代号<br>Symbol | 有无孔<br>Center<br>Hole | 有无断屑槽<br>Chip Breaker | 刀片剖面<br>Insert Profile | 代号<br>Symbol | 有无孔<br>Center<br>Hole | 有无断屑槽<br>Chip Breaker | 刀片剖面<br>Insert Profile |
|--------------|-----------------------|-----------------------|------------------------|--------------|-----------------------|-----------------------|------------------------|
| <b>B</b>     | 有(Y)                  | 无(N)                  |                        | <b>N</b>     | 无(N)                  | 无(N)                  |                        |
| <b>H</b>     | 有(Y)                  | 单面(S)                 |                        | <b>R</b>     | 无(N)                  | 单面(S)                 |                        |
| <b>C</b>     | 有(Y)                  | 无(N)                  |                        | <b>F</b>     | 无(N)                  | 双面(D)                 |                        |
| <b>J</b>     | 有(Y)                  | 双面(D)                 |                        | <b>A</b>     | 有(Y)                  | 无(N)                  |                        |
| <b>W</b>     | 有(Y)                  | 无(N)                  |                        | <b>M</b>     | 有(Y)                  | 单面(S)                 |                        |
| <b>T</b>     | 有(Y)                  | 单面(S)                 |                        | <b>G</b>     | 有(Y)                  | 双面(D)                 |                        |
| <b>Q</b>     | 有(Y)                  | 无(N)                  |                        | <b>X</b>     |                       |                       |                        |
| <b>U</b>     | 有(Y)                  | 双面(D)                 |                        |              |                       |                       |                        |

### 铣削刀片型号命名规则

### Milling Insert Naming Rules

#### 切削刃长度代号 Cutting Edge Length

A P M T II 35 PD E R - GM

| 内切圆直径<br>Inscribed Circle<br>diameter(mm) | 刀片外形 Insert Shape |    |    |    |    |    |    |    |
|---|-------------------|----|----|----|----|----|----|----|
|   | C                 | D  | R  | S  | T  | V  | W  | K  |
| 3.97                                      |                   |    |    |    | 06 |    |    |    |
| 5   |                   |    | 05 |    |    |    |    |    |
| 5.56                                      |                   |    |    |    | 09 |    |    |    |
| 6   |                   |    | 06 |    |    |    |    |    |
| 6.35                                      | 06                | 07 |    |    | 11 | 11 |    |    |
| 8   |                   |    | 08 |    |    |    |    |    |
| 9.525                                     | 09                | 11 | 09 | 09 | 16 | 16 | 06 | 16 |
| 10  |                   |    | 10 |    |    |    |    |    |
| 12  |                   |    | 12 |    |    |    |    |    |
| 12.7                                      | 12                | 15 | 12 | 12 | 22 | 22 | 08 |    |
| 15.875                                    | 16                |    | 15 | 15 | 27 |    |    |    |
| 16  |                   |    | 16 | 16 |    |    |    |    |
| 19.05                                     | 19                |    | 19 | 19 | 33 |    |    |    |
| 20  |                   |    | 20 |    |    |    |    |    |
| 25  | 25                | 25 | 25 |    |    |    |    |    |
| 25.4                                      |                   |    | 25 | 25 |    |    |    |    |
| 31.75                                     |                   |    | 31 |    |    |    |    |    |
| 32  |                   |    | 32 |    |    |    |    |    |

#### 刀片厚度代号 Thickness

A P M T II 35 PD E R - GM

| 代号<br>Symbol | 刀片厚度<br>Thickness(mm) |
|--------------|-----------------------|
| <b>00</b>    | 0.79                  |
| <b>T0</b>    | 0.99                  |
| <b>01</b>    | 1.59                  |
| <b>T1</b>    | 1.98                  |
| <b>02</b>    | 2.38                  |
| <b>T2</b>    | 2.58                  |
| <b>03</b>    | 3.18                  |
| <b>T3</b>    | 3.97                  |
| <b>04</b>    | 4.76                  |
| <b>T4</b>    | 4.96                  |
| <b>05</b>    | 5.56                  |
| <b>T5</b>    | 5.95                  |
| <b>06</b>    | 6.35                  |
| <b>T6</b>    | 6.75                  |
| <b>07</b>    | 7.94                  |
| <b>09</b>    | 9.52                  |
| <b>T9</b>    | 9.72                  |
| <b>11</b>    | 11.11                 |
| <b>12</b>    | 12.7                  |

厚度指刀片底面与切削刃最高部分之间的高度  
The Height Between Insert Bottom And Nose

#### 后角代号 Clearance Angle

A P M T II 35 PD E R - GM

|          |                |
|----------|----------------|
| <b>A</b> | <b>B</b>       |
|          |                |
| <b>C</b> | <b>D</b>       |
|          |                |
| <b>E</b> | <b>F</b>       |
|          |                |
| <b>G</b> | <b>N</b>       |
|          |                |
| <b>P</b> | <b>O</b>       |
|          | 其它后角<br>Others |

#### 精度代号 Tolerance

A P M T II 35 PD E R - GM

| 代号<br>Symbol | 刀尖高度m<br>公差 (mm)<br>m (mm) | 内接圆φI.C<br>公差 (mm)<br>d=I.C. (mm) | 厚度S<br>公差 (mm)<br>s (mm) | (参考) M级精度详细情况 (按形状、大小分) ●刀尖高度公差(mm)<br>(reference) M grade tolerance detail (according to shape, size.)<br>Tolerance of insert nose height |                             |               |                          |                          |                          |             |  |
|--------------|----------------------------|-----------------------------------|--------------------------|--|-----------------------------|---------------|--------------------------|--------------------------|--------------------------|-------------|--|
|              |                            |                                   |                          | 内切圆<br>Inscribed<br>Circle   | 正三角形<br>Regular<br>Triangle | 正方形<br>Square | 80° 菱形<br>80°<br>Rhombus | 55° 菱形<br>55°<br>Rhombus | 35° 菱形<br>35°<br>Rhombus | 圆形<br>Round |  |
| <b>A</b>     | ±0.005                     | ±0.025                            | ±0.025                   | 15.875   | ±0.15                       | ±0.15         | ±0.15                    | ±0.18                    | ...                      | ...         |  |
| <b>F</b>     | ±0.005                     | ±0.013                            | ±0.025                   | 19.05  | ±0.15                       | ±0.15         | ±0.15                    | ±0.18                    | ...                      | ...         |  |
| <b>C</b>     | ±0.013                     | ±0.025                            | ±0.025                   | 25.4   | ...                         | ±0.18         | ...                      | ...                      | ...                      | ...         |  |
| <b>H</b>     | ±0.013                     | ±0.013                            | ±0.013                   | ●内接圆φI.C公差 (mm) ●Tolerance of Inscribed Circle   |                             |               |                          |                          |                          |             |  |
| <b>E</b>     | ±0.025                     | ±0.025                            | ±0.025                   | 内切圆<br>Inscribed<br>Circle   | 正三角形<br>Regular<br>triangle | 正方形<br>Square | 80° 菱形<br>80°<br>Rhombus | 55° 菱形<br>55°<br>Rhombus | 35° 菱形<br>35°<br>Rhombus | 圆形<br>Round |  |
| <b>G</b>     | ±0.025                     | ±0.025                            | ±0.13                    | 6.35   | ±0.05                       | ±0.05         | ±0.05                    | ±0.05                    | ±0.05                    |             |  |
| <b>J</b>     | ±0.005                     | ±0.05-±0.13                       | ±0.025                   | 6.35   | ±0.05                       | ±0.05         | ±0.05                    | ±0.05                    | ±0.05                    |             |  |
| <b>K</b>     | ±0.013                     | ±0.05-±0.13                       | ±0.025                   | 9.525  | ±0.05                       | ±0.05         | ±0.05                    | ±0.05                    | ±0.05                    | ±0.05       |  |
| <b>L</b>     | ±0.025                     | ±0.05-±0.13                       | ±0.025                   | 12.7   | ±0.08                       | ±0.08         | ±0.08                    | ±0.08                    | ...                      | ±0.08       |  |
| <b>M</b>     | ±0.08-±0.18                | ±0.05-±0.13                       | ±0.13                    | 15.875   | ±0.1                        | ±0.1          | ±0.10                    | ±0.10                    | ...                      | ±0.1        |  |
| <b>N</b>     | ±0.08-±0.18                | ±0.05-±0.13                       | ±0.025                   | 19.05  | ±0.1                        | ±0.1          | ±0.10                    | ±0.10                    | ...                      | ±0.1        |  |
| <b>U</b>     | ±0.13-±0.38                | ±0.08-±0.25                       | ±0.13                    | 25.4   | ...                         | ...           | ±0.13                    | ...                      | ...                      | ±0.13       |  |

#### 修光刃代号 Wiper Code

A P M T II 35 PD E R - GM

| 代号       | 修光刃角度 | 代号       | 修光刃角度 |
|----------|-------|----------|-------|
| <b>A</b> | 45°   | <b>A</b> | 3°    |
| <b>D</b> | 60°   | <b>B</b> | 5°    |
| <b>E</b> | 75°   | <b>C</b> | 7°    |
| <b>F</b> | 85°   | <b>D</b> | 15°   |
| <b>P</b> | 90°   | <b>E</b> | 20°   |
| <b>Z</b> | 其它    | <b>F</b> | 25°   |
|          |       | <b>G</b> | 30°   |
|          |       | <b>N</b> | 0°    |
|          |       | <b>P</b> | 11°   |
|          |       | <b>Z</b> | 其它    |

#### 切削刃倒棱代号 Cutting Edge Chamfering

A P M T II 35 PD E R - GM

| 代号       | 倒棱角度 | 代号       | 倒棱角度 |
|----------|------|----------|------|
| <b>F</b> | 0    | <b>K</b> | 0    |
| <b>E</b> | 5°   | <b>P</b> | 0.1  |
|          | 10°  | <b>W</b> | 0.15 |
| <b>T</b> | 15°  |          | 0.2  |
|          | 20°  |          | 0.25 |
|          | 25°  |          | 0.3  |
| <b>S</b> | 30°  |          | 0.35 |
|          |      |          | 0.4  |
|          |      |          | 0.45 |

#### 切削方向代号 Cutting Direction

A P M T II 35 PD E R - GM

| 代号       | 切削方向       |
|----------|------------|
| <b>R</b> | 右 Right    |
| <b>L</b> | 左 Left     |
| <b>N</b> | 双向 Neutral |

### 铣削刀片牌号介绍

### Grade Informations

| 产品牌号<br>Grade | ISO                           | 涂层类型<br>Types of Coating | 涂层组成<br>Coating Composition                 | 特点及应用<br>Features And Applications  |
|---------------|-------------------------------|--------------------------|---|---|
| TC4110        | P15~P35                       | CVD<br>黄色<br>Yellow      | MT-TiCN+Al <sub>2</sub> O <sub>3</sub> +TiN | 1.采用高强度和高韧性的硬质合金基体, 结合薄的氧化铝CVD涂层, 具有优异耐磨性和抗冲击性能。<br>2.适用于钢件材料的半精铣削加工。<br>1. Using high strength and toughness cemented carbide substrate, combined with thin Al <sub>2</sub> O <sub>3</sub> CVD coating, it has excellent performance of wear resistance and impact resistance.<br>2. It is suitable for semi-finish processing of steel milling.   |
| TC4125        | P15~P35<br>M10~M30            | CVD<br>黑色<br>Black       | MT-TiCN+Al <sub>2</sub> O <sub>3</sub>      | 1.采用中钴成分的高韧性梯度合金基体, 搭配细晶柱状TiCN和超细的薄的Al <sub>2</sub> O <sub>3</sub> 涂层, 具有优异的抗崩缺能力和高温强度。<br>2.适用于合金钢、碳素钢、不锈钢材料的半精铣和粗铣加工。<br>1. Using high toughness gradient cemented carbide substrate with medium Cobalt content, matched with fine crystalline columnar TiCN and ultra-fine Al <sub>2</sub> O <sub>3</sub> coating, it has excellent performance of chipping resistance and high temperature resistance.<br>2. It is suitable for semi-finish and roughing processing of alloy steel, carbon steel and stainless steel milling. |
| TC3225        | K15~K35                       | CVD<br>黑色<br>Black       | MT-TiCN+Al <sub>2</sub> O <sub>3</sub>      | 1.中等晶粒的强韧性基体, 结合MT-TiCN和厚的Al <sub>2</sub> O <sub>3</sub> 涂层工艺, 具备良好的刃口强度和优异的耐磨性能。<br>2.适用于铸铁的粗铣及半精铣削加工。<br>1. Using strong toughness substrate of medium crystal grain, combined with MT-TiCN and thick Al <sub>2</sub> O <sub>3</sub> coating process, it has excellent edge strength and performance of wear resistance.<br>2. It is suitable for roughing and semi-finish processing of cast iron milling.   |
| TC1225        | P10~P25<br>M05~M25<br>S05~S25 | PVD<br>灰黑色<br>Gray-black | TiAlN                                       | 1.采用亚微晶粒的中钴基体, 结合纳米结晶TiAlN涂层, 具有良好的强韧性和通用性能。<br>2.适用于合金钢、不锈钢、高温合金等材料的半精、精铣加工。<br>1. Using sub-micro crystalline substrate with medium Cobalt content, combined with nano-crystalline TiAlN coating, it has good strong toughness and general processing performance.<br>2. It is suitable for semi-finish and finishing processing of alloy steel, stainless steel, high temperature alloy and other materials milling.   |
| TC1035        | P15~P30<br>M15~M30<br>S15~S30 | PVD<br>灰黑色<br>Gray-black | TiAlN                                       | 1.较高耐磨性的细晶粒中钴基体, 搭配通用性好的TiAlN涂层, 具有良好的膜基结合力、耐磨性和抗氧化性能。<br>2.适用于合金钢、不锈钢、高温合金等材料的半精铣削加工, 为钢件、不锈钢铣削首选牌号。<br>1. The fine-grain medium cobalt substrate with high wear resistance is match with high universality of TiAlN coating, it has good film-based adhesion, wear resistance and oxidation resistance.<br>2. It is suitable for semi-finish milling of alloy steel, stainless steel, superalloy and other materials, and is the preferred brand for steel and stainless steel milling.   |

### 铣削刀片牌号介绍

### Grade Informations

| 产品牌号<br>Grade | ISO                           | 涂层类型<br>Types of Coating     | 涂层组成<br>Coating Composition | 特点及应用<br>Features And Applications  |
|---------------|-------------------------------|------------------------------|-----------------------------|---|
| TC6020        | P20~P35<br>M20~M35            | PVD<br>七彩色<br>Multiple-Color | AlTiCrSiN                   | 1.采用低钴含量的细晶粒硬质合金基体, 结合优异性能的纳米结构PVD涂层, 具有优异的耐磨性和耐高温性能。<br>2.适用于淬硬钢的半精和精铣削加工。<br>1. Using the fine-grained cemented carbide substrate with low cobalt content, combined with high excellent performance of PVD nano-coating, it has excellent wear resistance and high temperature resistance.<br>2. It is suitable for semi-finish and finish milling of hardened steel.   |
| TX910C        | P10~P25<br>M15~M25<br>K10~K25 | 无涂层<br>Uncoated              | \                           | 1.TiCN基金属陶瓷牌号, 细小弥散的硬质相颗粒和粘相强化和环形相结构控制三者结合, 使之表现出优异的耐磨性、红硬性和抗月牙洼磨损性能。<br>2.适用于钢件、不锈钢、铸铁等材料的精、半精加工。<br>1. TiCN-based cermet grade, fine dispersion hard phase particles, bonded phase reinforcement and annular phase structure control are combined to show excellent wear resistance, red hardness and crescent hole wear resistance.<br>2. It is suitable for finishing and semi-finish of steel, stainless steel, cast iron etc. |
| TX920C        | P10~P25<br>M10~M25<br>K10~K25 | 无涂层<br>Uncoated              | ®                           | 1.TiCN基金属陶瓷牌号, 具有均匀、晶粒细化组织, 环形相结构, 提高了材料的强度和耐磨性。<br>2.适用于钢件、不锈钢、铸铁材料的精铣、半精铣削加工。<br>1. TiCN-based cermet grade, with uniform, grain refinement structure, annular phase structure, improve the strength and wear resistance of the material.<br>2. It is suitable for finishing milling and semi-finish milling of steel, stainless steel and cast iron materials.   |
| TC705         | N05~N20                       | 无涂层<br>Uncoated              | \                           | 1.低钴的亚微晶粒硬质合金材质, 结合特殊的后处理工艺, 具有优异的耐磨性和抗黏结性。<br>2.适用于有色金属的精铣加工。<br>1. Low Co submicro grain cemented carbide grade, combined with a special post-treatment process, it has excellent wear resistance and adhesion resistance.<br>2. It is suitable for finishing milling processing of non-ferrous metals.   |
| TC710         | N10-N30                       | 无涂层<br>Uncoated              | \                           | 1.低钴含量的细晶粒硬质合金材质, 结合特殊的后处理工艺, 具有优异的耐磨性和抗黏结性。<br>2.适用于有色金属的精铣、半精铣削加工。<br>1. The fine grain carbide grade with low cobalt content, combined with a special post-treatment process, it has excellent wear resistance and adhesion resistance.<br>2. It is suitable for finishing milling and semi-finish milling processing of non-ferrous metals.   |

A 车削刀片

B 铣削刀片

C 孔加工刀片

A 车削刀片

B 铣削刀片

C 孔加工刀片



铣削产品牌号一览表

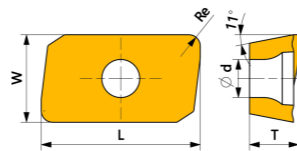
Recommend Grade Table

| 工件材料<br>Workpiece materials | ISO代号<br>ISO Code | CVD    | PVD    | 金属陶瓷<br>Cermet | 硬质合金<br>Cemented carbide | 超硬材料<br>Superhard materials |
|-----------------------------|-------------------|--------|--------|----------------|--------------------------|-----------------------------|
| P                           | P01               |        |        |                |                          |                             |
|                             | P10               | TC4110 | TC1225 | TX910          |                          |                             |
|                             | P20               | TC4125 |        |                |                          |                             |
|                             | P30               |        | TC1035 | TX920          |                          |                             |
|                             | P40               |        |        |                |                          |                             |
| M                           | M01               |        |        |                |                          |                             |
|                             | M10               |        | TC1205 | TX910C         |                          |                             |
|                             | M20               | TC2035 | TC1225 | TX920C         |                          |                             |
|                             | M30               | TC2135 | TC1120 |                |                          |                             |
|                             | M40               |        | TC1025 |                |                          |                             |
| K                           | K01               |        |        |                |                          |                             |
|                             | K10               | TC3225 |        |                |                          |                             |
|                             | K20               |        |        |                |                          |                             |
|                             | K30               |        |        |                |                          |                             |
| N                           | N01               |        |        |                |                          |                             |
|                             | N10               |        |        |                | TC705                    |                             |
|                             | N20               |        |        |                | TC710                    |                             |
|                             | N30               |        |        |                |                          |                             |
| S                           | S01               |        |        |                |                          |                             |
|                             | S10               |        | TC1205 |                |                          |                             |
|                             | S20               |        | TC1215 |                |                          |                             |
|                             | S30               |        | TC1225 |                |                          |                             |
| H                           | H01               |        |        |                |                          |                             |
|                             | H10               |        |        |                |                          |                             |
|                             | H20               |        | TC6020 |                |                          |                             |
|                             | H30               |        |        |                |                          |                             |

APKT/APMT/EPMT/EPNW

Milling Inserts  
铣削刀片

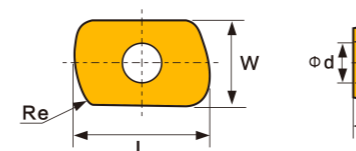
铣削刀片 Milling Tools



√良好工况 Good working conditions ○一般工况 General working conditions ×不稳定工况 Unstable working conditions

| 工件材料<br>Workpiece Material | P | M | K | N | S | H |
|----------------------------|---|---|---|---|---|---|
| 钢                          |   |   |   |   |   |   |
| 不锈钢                        |   | ○ | × | √ | √ | √ |
| 铸铁                         |   |   |   |   |   | √ |
| 有色金属                       |   |   |   |   |   | √ |
| 耐热合金、钛合金                   |   |   |   |   |   | √ |
| 淬硬钢                        |   |   |   |   |   | × |

| 产品<br>Inserts Shape | 型号<br>Type        | 尺寸 Dimensions ( mm ) |      |      |     |     | CVD涂层  |  | PVD涂层  |        |  |  |        |        | 金陶<br>Cermet |   |  |
|---------------------|-------------------|----------------------|------|------|-----|-----|--------|--|--------|--------|--|--|--------|--------|--------------|---|--|
|                     |                   | L                    | W    | T    | Φd  | Re  | TC2035 |  | TC1225 | TC1025 |  |  | TC1205 | TC1120 |              |   |  |
|                     | APKT1003PDER      | 11.6                 | 6.76 | 3.5  | 2.8 | 0.8 | ●      |  | ●      | ▲      |  |  |        |        | ●            | ▲ |  |
|                     | APMT113508PDER-M  | 11.25                | 6.2  | 3.5  | 2.8 | 0.8 | ●      |  | ●      | ▲      |  |  |        |        | ●            | ▲ |  |
|                     | APMT113512PDER-M2 | 11.25                | 6.2  | 3.5  | 2.8 | 1.2 | ●      |  | ●      | ▲      |  |  |        |        | ●            | ▲ |  |
|                     | APMT113516PDER-H2 | 11.25                | 6.2  | 3.5  | 2.8 | 1.6 | ●      |  | ●      | ▲      |  |  |        |        | ●            | ▲ |  |
|                     | APMT113504PDER-X  | 11.25                | 6.2  | 3.5  | 2.8 | 0.4 | ●      |  | ●      | ▲      |  |  |        |        | ●            | ▲ |  |
|                     | APMT113508PDER-FM | 11.25                | 6.2  | 3.5  | 2.8 | 0.8 | ●      |  | ●      | ▲      |  |  |        |        | ●            | ▲ |  |
|                     | APMT160404PDER    | 17.8                 | 9.3  | 4.76 | 4.4 | 0.4 | ●      |  | ●      | ▲      |  |  |        |        | ●            | ▲ |  |
|                     | APMT160408PDER-M  | 17.8                 | 9.3  | 4.76 | 4.4 | 0.8 | ●      |  | ●      | ▲      |  |  |        |        | ●            | ▲ |  |
|                     | APMT160412PDER-M2 | 17.8                 | 9.3  | 4.76 | 4.4 | 1.2 | ●      |  | ●      | ▲      |  |  |        |        | ●            | ▲ |  |
|                     | APMT160416PDER-H2 | 17.8                 | 9.3  | 4.76 | 4.4 | 1.6 | ●      |  | ●      | ▲      |  |  |        |        | ●            | ▲ |  |
|                     | APMT160404PDER-X  | 17.8                 | 9.3  | 4.76 | 4.4 | 0.4 | ●      |  | ●      | ▲      |  |  |        |        | ●            | ▲ |  |
|                     | APMT160408PDER-FM | 17.8                 | 9.3  | 4.76 | 4.4 | 0.8 | ●      |  | ●      | ▲      |  |  |        |        | ●            | ▲ |  |



√良好工况 Good working conditions ○一般工况 General working conditions ×不稳定工况 Unstable working conditions

| 工件材料<br>Workpiece Material | P | M | K | N | S | H |
|----------------------------|---|---|---|---|---|---|
| 钢                          |   |   |   |   |   |   |
| 不锈钢                        |   | ○ | × | √ | √ | √ |
| 铸铁                         |   |   |   |   |   | √ |
| 有色金属                       |   |   |   |   |   | √ |
| 耐热合金、钛合金                   |   |   |   |   |   | √ |
| 淬硬钢                        |   |   |   |   |   | × |

| 产品<br>Inserts Shape | 型号<br>Type | 尺寸 Dimensions ( mm ) |      |      |     |     | CVD涂层  |  | PVD涂层  |        |  |  |        |        | 金陶<br>Cermet |   |  |
|---------------------|------------|----------------------|------|------|-----|-----|--------|--|--------|--------|--|--|--------|--------|--------------|---|--|
|                     |            | L                    | S    | W    | d   | Re  | TC2035 |  | TC1225 | TC1025 |  |  | TC1205 | TC1120 |              |   |  |
|                     | EPMT060320 | 10.0                 | 3.18 | 6.35 | 2.8 | 8.0 | ●      |  | ●      | ▲      |  |  |        |        | ●            | ▲ |  |
|                     | EPNW060320 | 10.0                 | 3.18 | 6.35 | 2.8 | 8.0 | ●      |  | ●      | ▲      |  |  |        |        | ●            | ▲ |  |

▲为主推荐牌号 Recommended grade (Always stock available) ●按订单生产可选牌号 Make-to-order

Milling Inserts  
铣削刀片

铣削刀片 Milling Tools

√良好工况 Good working conditions ○一般工况 General working conditions ×不稳定工况 Unstable working conditions

| 产品<br>Inserts Shape | 型号<br>Type    | 尺寸 Dimensions (mm) |      |      |     |  | CVD涂层  |  | PVD涂层  |        |  |  |        |        | 金陶<br>Cemet |  |
|---------------------|---------------|--------------------|------|------|-----|--|--------|--|--------|--------|--|--|--------|--------|-------------|--|
|                     |               | ØI.C               | T    | Φd   | a   |  | TC2035 |  | TC1225 | TC1025 |  |  | TC1205 | TC1120 |             |  |
|                     | RCHT10T3MO-WM | 10                 | 3.97 | 4.4  | 11° |  | ●      |  | ●      | ▲      |  |  |        | ●      | ▲           |  |
|                     | RCHT1204MO-WM | 12                 | 4.76 | 4.4  | 11° |  | ●      |  | ●      | ▲      |  |  |        | ●      | ▲           |  |
|                     | RCMT0602MO    | 6                  | 2.38 | 3.35 | 11° |  | ●      |  | ●      | ▲      |  |  |        | ●      | ▲           |  |
|                     | RDHT07T1MO    | 16                 | 6.35 | 5.5  | 11° |  | ●      |  | ●      | ▲      |  |  |        | ●      | ▲           |  |
|                     | RDHT0702MO    | 7                  | 2.38 | 3.35 | 11° |  | ●      |  | ●      | ▲      |  |  |        | ●      | ▲           |  |
|                     | RDKW1204MO    | 12                 | 4.76 | 4.4  | 11° |  | ●      |  | ●      | ▲      |  |  |        | ●      | ▲           |  |
|                     | RPMW1003MO    | 10                 | 3.18 | 4.6  | 11° |  | ●      |  | ●      | ▲      |  |  |        | ●      | ▲           |  |
|                     | RPMW10T3MO    | 10                 | 3.97 | 4.6  | 11° |  | ●      |  | ●      | ▲      |  |  |        | ●      | ▲           |  |
|                     | RPMW1204MO    | 12                 | 4.76 | 4.4  | 11° |  | ●      |  | ●      | ▲      |  |  |        | ●      | ▲           |  |
|                     | RPMW1606MO    | 16                 | 6.35 | 5.5  | 11° |  | ●      |  | ●      | ▲      |  |  |        | ●      | ▲           |  |

√良好工况 Good working conditions ○一般工况 General working conditions ×不稳定工况 Unstable working conditions

| 产品<br>Inserts Shape | 型号<br>Type      | 尺寸 Dimensions (mm) |      |      |      |     | CVD涂层  |  | PVD涂层  |        |  |  |        |        | 金陶<br>Cemet |  |
|---------------------|-----------------|--------------------|------|------|------|-----|--------|--|--------|--------|--|--|--------|--------|-------------|--|
|                     |                 | L                  | S    | W    | Φd   | Re  | TC2035 |  | TC1225 | TC1025 |  |  | TC1205 | TC1120 |             |  |
|                     | LNMU0303ZER-MJ  | 11.9               | 3.75 | 6.00 | 2.85 | 1.2 | ●      |  | ●      | ▲      |  |  |        | ●      | ▲           |  |
|                     | LNMU0303ZER-ML  | 11.9               | 3.75 | 6.00 | 2.85 | 1.2 | ●      |  | ●      | ▲      |  |  |        | ●      | ▲           |  |
|                     | LOGU030310ER-GM | 12.0               | 3.96 | 6.22 | 3.45 | 1.0 | ●      |  | ●      | ▲      |  |  |        | ●      | ▲           |  |
|                     | LPGT010210ER-GM | 6.26               | 2.19 | 4.19 | 2.10 | 1.0 | ●      |  | ●      | ▲      |  |  |        | ●      | ▲           |  |

▲为主推荐牌号 Recommended grade (Always stock available) ●按订单生产可选牌号 Make-to-order

Milling Inserts  
铣削刀片

铣削刀片 Milling Tools

√良好工况 Good working conditions ○一般工况 General working conditions ×不稳定工况 Unstable working conditions

| 产品<br>Inserts Shape | 型号<br>Type      | 尺寸 Dimensions (mm) |      |     |     | CVD涂层  |  | PVD涂层  |        |  |  |        |        | 金陶<br>Cemet |  |
|---------------------|-----------------|--------------------|------|-----|-----|--------|--|--------|--------|--|--|--------|--------|-------------|--|
|                     |                 | ØI.C               | T    | Φd  | Re  | TC2035 |  | TC1225 | TC1025 |  |  | TC1205 | TC1120 |             |  |
|                     | WNMU040304EN-GM | 6.25               | 3.1  | 3.3 | 0.4 | ●      |  | ●      | ▲      |  |  |        | ●      | ▲           |  |
|                     | WNMU050408EN-GM | 8.8                | 4.2  | 3.4 | 0.8 | ●      |  | ●      | ▲      |  |  |        | ●      | ▲           |  |
|                     | WNMU060408EN-GM | 9.525              | 4    | 3.5 | 0.8 | ●      |  | ●      | ▲      |  |  |        | ●      | ▲           |  |
|                     | WNMU080608EN-GM | 14.02              | 6.65 | 6.2 | 0.8 | ●      |  | ●      | ▲      |  |  |        | ●      | ▲           |  |

√良好工况 Good working conditions ○一般工况 General working conditions ×不稳定工况 Unstable working conditions

| 产品<br>Inserts Shape | 型号<br>Type     | 尺寸 Dimensions (mm) |      |      |     |     | CVD涂层  |  | PVD涂层  |        |  |  |        |        | 金陶<br>Cemet |  |
|---------------------|----------------|--------------------|------|------|-----|-----|--------|--|--------|--------|--|--|--------|--------|-------------|--|
|                     |                | L                  | ØI.C | T    | r   | bs  | TC2035 |  | TC1225 | TC1025 |  |  | TC1205 | TC1120 |             |  |
|                     | SNMX1205ANN-M  | 12.7               | 12.7 | 5.59 |     | 1.5 | ●      |  | ●      | ▲      |  |  |        | ●      | ▲           |  |
|                     | SNMX1205ANN-GM | 12.7               | 12.7 | 5.54 | 1.2 |     | ●      |  | ●      | ▲      |  |  |        | ●      | ▲           |  |
|                     | SNMX1205ZNN-M  | 12.7               | 12.7 | 5.54 | 2   |     | ●      |  | ●      | ▲      |  |  |        | ●      | ▲           |  |
|                     | SNMX120512-FM  | 16                 | 16   | 6.38 | 2   |     | ●      |  | ●      | ▲      |  |  |        | ●      | ▲           |  |
|                     |                | 16                 | 16   | 6.38 | 4   |     | ●      |  | ●      | ▲      |  |  |        | ●      | ▲           |  |
|                     | SNMX1306ENTN-M | 12.7               | 12.7 | 5.59 |     | 1.5 | ●      |  | ●      | ▲      |  |  |        | ●      | ▲           |  |
|                     | SNGX1306ANTN-M |                    |      |      |     |     | ●      |  | ●      | ▲      |  |  |        | ●      | ▲           |  |
|                     | SPKR1504EDR-K  |                    |      |      |     |     | ●      |  | ●      | ▲      |  |  |        | ●      | ▲           |  |

▲为主推荐牌号 Recommended grade (Always stock available) ●按订单生产可选牌号 Make-to-order

A 车削刀片

B 铣削刀片

C 孔加工刀片

A 车削刀片

B 铣削刀片

C 孔加工刀片

SEEN/SEMT/SEMR/SEKR/SEKT/WDMW/JDMW  
Milling Inserts  
铣削刀片

XOMX/JDMT  
Milling Inserts  
铣削刀片

铣削刀片 Milling Tools

铣削刀片 Milling Tools

√良好工况 Good working conditions ○一般工况 General working conditions ×不稳定工况 Unstable working conditions

| 产品<br>Inserts Shape | 型号<br>Type      | 尺寸 Dimensions (mm) |        |      |     |   | CVD涂层  |  | PVD涂层  |        |  |  |        |        | 金陶<br>Cemet |
|---------------------|-----------------|--------------------|--------|------|-----|---|--------|--|--------|--------|--|--|--------|--------|-------------|
|                     |                 | L                  | ØI.C   | T    | Φd  | a | TC2035 |  | TC1225 | TC1025 |  |  | TC1205 | TC1120 |             |
|                     | SEEN1203AFTN    | 12.7               | 12.7   | 3.18 | /   |   | ●      |  | ●      | ▲      |  |  | ●      | ▲      |             |
|                     | SEEN1504AFTN    | 15.875             | 15.875 | 4.76 | /   |   | ●      |  | ●      | ▲      |  |  | ●      | ▲      |             |
|                     | SEMR1203AFTN    | 12.7               | 12.7   | 3.18 | 2.3 |   | ●      |  | ●      | ▲      |  |  | ●      | ▲      |             |
|                     | SEMR1504AFTN    | 15.875             | 15.875 | 4.76 | 3.2 |   | ●      |  | ●      | ▲      |  |  | ●      | ▲      |             |
|                     | SEKR1003AFEN    | 10.39              | 10.39  |      |     |   | ●      |  | ●      | ▲      |  |  | ●      | ▲      |             |
|                     | SEKR1203AFTN    | 12.7               | 12.7   | 3.18 | 2.3 |   | ●      |  | ●      | ▲      |  |  | ●      | ▲      |             |
|                     | SEKT1204AFTN    | 12.7               | 12.7   | 4.76 | 5.5 |   | ●      |  | ●      | ▲      |  |  | ●      | ▲      |             |
|                     | SEMT13T3AGSN-ZY | 13.4               | 13.4   | 3.97 | 4.4 |   | ●      |  | ●      | ▲      |  |  | ●      | ▲      |             |

√良好工况 Good working conditions ○一般工况 General working conditions ×不稳定工况 Unstable working conditions

| 产品<br>Inserts Shape | 型号<br>Type    | 尺寸 Dimensions (mm) |      |      |      | CVD涂层  |  | PVD涂层  |        |  |  |        |        | 金陶<br>Cemet |
|---------------------|---------------|--------------------|------|------|------|--------|--|--------|--------|--|--|--------|--------|-------------|
|                     |               | IC                 | T    | B    | Re   | TC2035 |  | TC1225 | TC1025 |  |  | TC1205 | TC1120 |             |
|                     | WDMW06T320ZTR | 10.0               | 3.97 | 1.20 | 2.00 | ●      |  | ●      | ▲      |  |  | ●      | ▲      |             |
|                     | WDMW080520ZTR | 13.0               | 5.50 | 1.50 | 2.00 | ●      |  | ●      | ▲      |  |  | ●      | ▲      |             |
|                     | WDMW10X620ZTR | 13.0               | 6.00 | 1.20 | 2.00 | ●      |  | ●      | ▲      |  |  | ●      | ▲      |             |
|                     | JDMW09T320SR  | 9.53               | 3.97 | 1.80 | 2.00 | ●      |  | ●      | ▲      |  |  | ●      | ▲      |             |
|                     | JDMW120420SR  | 13.0               | 5.50 | 1.50 | 2.00 | ●      |  | ●      | ▲      |  |  | ●      | ▲      |             |
|                     | JDMW140520SR  | 13.0               | 6.00 | 1.20 | 2.00 | ●      |  | ●      | ▲      |  |  | ●      | ▲      |             |

√良好工况 Good working conditions ○一般工况 General working conditions ×不稳定工况 Unstable working conditions

| 产品<br>Inserts Shape | 型号<br>Type   | 尺寸 Dimensions (mm) |      |      |      |     | CVD涂层  |  | PVD涂层  |        |  |  |        |        | 金陶<br>Cemet |
|---------------------|--------------|--------------------|------|------|------|-----|--------|--|--------|--------|--|--|--------|--------|-------------|
|                     |              | L                  | S    | W    | Φd   | Re  | TC2035 |  | TC1225 | TC1025 |  |  | TC1205 | TC1120 |             |
|                     | XOMX120408TR | 10.2               | 3.85 | 6.90 | 2.96 | 0.8 | ●      |  | ●      | ▲      |  |  | ●      | ▲      |             |
|                     | XOMX120420TR | 12.7               | 5.07 | 8.20 | 3.85 | 0.8 | ●      |  | ●      | ▲      |  |  | ●      | ▲      |             |
|                     | XOMX120412TR | 12.7               | 5.05 | 8.20 | 3.90 | 1.2 | ●      |  | ●      | ▲      |  |  | ●      | ▲      |             |

√良好工况 Good working conditions ○一般工况 General working conditions ×不稳定工况 Unstable working conditions

| 产品<br>Inserts Shape | 型号<br>Type  | 尺寸 Dimensions (mm) |      |      |     |     | CVD涂层  |  | PVD涂层  |        |  |  |        |        | 金陶<br>Cemet |
|---------------------|-------------|--------------------|------|------|-----|-----|--------|--|--------|--------|--|--|--------|--------|-------------|
|                     |             | L                  | S    | W    | Φd  | Re  | TC2035 |  | TC1225 | TC1025 |  |  | TC1205 | TC1120 |             |
|                     | JDMT070204R | 7.1                | 2.45 | 4.25 | 1.9 | 0.4 | ●      |  | ●      | ▲      |  |  | ●      | ▲      |             |
|                     | JDMT070208R | 7.1                | 2.45 | 4.25 | 1.9 | 0.8 | ●      |  | ●      | ▲      |  |  | ●      | ▲      |             |

▲为主推荐牌号 Recommended grade (Always stock available) ●按订单生产可选牌号 Make-to-order

▲为主推荐牌号 Recommended grade (Always stock available) ●按订单生产可选牌号 Make-to-order



BLMP/MPHW

Milling Inserts  
铣削刀片

铣削刀片 Milling Tools

| 产品<br>Inserts Shape | 型号<br>Type        | 尺寸 Dimensions (mm) |      |      |     |     | CVD涂层  |  | PVD涂层  |        |  |  |        |        | 金陶<br>Cermets |  |  |
|---------------------|-------------------|--------------------|------|------|-----|-----|--------|--|--------|--------|--|--|--------|--------|---------------|--|--|
|                     |                   | L                  | S    | W    | φd  | Re  | TC2035 |  | TC1225 | TC1025 |  |  | TC1205 | TC1120 |               |  |  |
|                     | BLMP0603R-M       | 9.0                | 3.73 | 6.39 | 3.1 | 1.0 | ●      |  | ●      | ▲      |  |  |        | ●      | ▲             |  |  |
|                     | BLMP0904R-M       | 11.9               | 4.79 | 9.15 | 4.1 | 1.5 | ●      |  | ●      | ▲      |  |  |        | ●      | ▲             |  |  |
|                     | MPHW060304ZEL     | -                  | 3.18 | 6.35 | 3   | 0.4 | ●      |  | ●      | ▲      |  |  |        | ●      | ▲             |  |  |
|                     | MPHW060308ZEL     | -                  | 3.18 | 6.35 | 3   | 0.8 | ●      |  | ●      | ▲      |  |  |        | ●      | ▲             |  |  |
|                     | MPHW060304ZEL-0.5 | -                  | 3.18 | 6.35 | 3   | 0.4 | ●      |  | ●      | ▲      |  |  |        | ●      | ▲             |  |  |
|                     | MPHW060304ZEL-1.5 | -                  | 3.18 | 6.35 | 3   | 0.8 | ●      |  | ●      | ▲      |  |  |        | ●      | ▲             |  |  |

▲为主推荐牌号 Recommended grade (Always stock available) ●按订单生产可选牌号 Make-to-order

SDMT/SOMT

Milling Inserts  
铣削刀片

铣削刀片 Milling Tools

| 产品<br>Inserts Shape | 型号<br>Type   | 尺寸 Dimensions (mm) |      |        |     |     | CVD涂层  |  | PVD涂层  |        |  |  |        |        | 金陶<br>Cermets |  |  |
|---------------------|--------------|--------------------|------|--------|-----|-----|--------|--|--------|--------|--|--|--------|--------|---------------|--|--|
|                     |              | φI.C               | S    | L      | φd  | Re  | TC2035 |  | TC1225 | TC1025 |  |  | TC1205 | TC1120 |               |  |  |
|                     | SDMT09T3     | 12.66              | 5.54 | 15.3   | 4.4 | 1.2 | ●      |  | ●      | ▲      |  |  |        | ●      | ▲             |  |  |
|                     | SDMT1204     | 12.7               | 4.76 | 12.7   | 4.4 | 1.2 | ●      |  | ●      | ▲      |  |  |        | ●      | ▲             |  |  |
|                     | SDMT120512   | 12.66              | 5.54 | 12.66  | 4.4 | 1.2 | ●      |  | ●      | ▲      |  |  |        | ●      | ▲             |  |  |
|                     | SDMT150512   | 15.875             | 5.56 | 15.875 | 5.5 | 1.2 | ●      |  | ●      | ▲      |  |  |        | ●      | ▲             |  |  |
|                     | SDMT1205ZDTN | 12.7               | 5.54 | 12.7   | 4.6 | 2.8 | ●      |  | ●      | ▲      |  |  |        | ●      | ▲             |  |  |
|                     | SDMT1505ZDTN | 15.875             | 5.56 | 15.875 | 5.5 | 0.8 | ●      |  | ●      | ▲      |  |  |        | ●      | ▲             |  |  |
|                     | SOMT100420ER | 10.39              | 4.59 | 10.39  | 4.6 | 2.0 | ●      |  | ●      | ▲      |  |  |        | ●      | ▲             |  |  |
|                     | SOMT140520ER | 14.16              | 5.56 | 14.16  | 5.8 | 2.0 | ●      |  | ●      | ▲      |  |  |        | ●      | ▲             |  |  |

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A 车削刀片

B 铣削刀片

C 孔加工刀片

A 车削刀片

B 铣削刀片

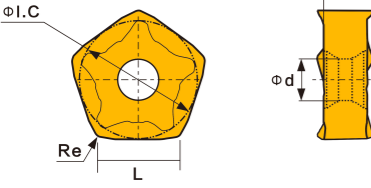
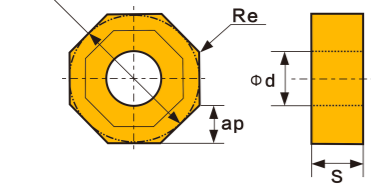
C 孔加工刀片

PNMU/ONMU

Milling Inserts  
铣削刀片

铣削刀片 Milling Tools

√良好工况 Good working conditions ○一般工况 General working conditions ×不稳定工况 Unstable working conditions

| 产品<br>Inserts Shape   | 型号<br>Type   | 尺寸 Dimensions (mm) |      |     |      |     | CVD涂层  |  | PVD涂层  |        |  |  |        | 金陶<br>Cermets |        |   |  |  |
|---|--------------|--------------------|------|-----|------|-----|--------|--|--------|--------|--|--|--------|---------------|--------|---|--|--|
|   |              | φI.C               | S    | L   | φd   | Re  | TC2035 |  | TC1225 | TC1025 |  |  | TC1205 |               | TC1120 |   |  |  |
|    | PNMU0905XNER | 13.4               | 6.19 | 9.3 | 4.64 | 0.8 | ●      |  | ●      | ▲      |  |  |        |               | ●      | ▲ |  |  |
|  | ONMU05055    | 13.0               | 5.5  | 3.5 | 5.0  | 0.5 | ●      |  | ●      | ▲      |  |  |        |               | ●      | ▲ |  |  |

工件材料  
Workpiece Material

| 材料       | P | M | K | N | S | H |
|----------|---|---|---|---|---|---|
| 钢        |   |   |   |   |   | ○ |
| 不锈钢      |   | ○ | × | √ | √ | √ |
| 铸铁       |   |   |   |   |   | ○ |
| 有色金属     |   |   |   |   |   | ○ |
| 耐热合金、钛合金 |   |   |   |   |   | √ |
| 淬硬钢      |   |   |   |   |   | √ |

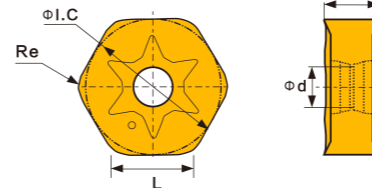
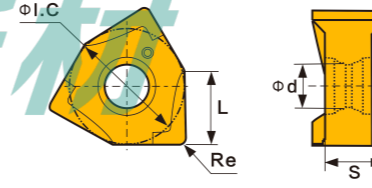
▲为主推荐牌号 Recommended grade (Always stock available) ●按订单生产可选牌号 Make-to-order

HNGX/XNEX

Milling Inserts  
铣削刀片

铣削刀片 Milling Tools

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| 产品<br>Inserts Shape   | 型号<br>Type   | 尺寸 Dimensions (mm) |      |     |      |     | CVD涂层  |  | PVD涂层  |        |  |  |        | 金陶<br>Cermets |        |   |  |  |
|---|--------------|--------------------|------|-----|------|-----|--------|--|--------|--------|--|--|--------|---------------|--------|---|--|--|
|   |              | φI.C               | S    | L   | φd   | Re  | TC2035 |  | TC1225 | TC1025 |  |  | TC1205 |               | TC1120 |   |  |  |
|    | HNGX0906ANSN | 16.5               | 6.85 | 9.1 | 4.9  | 1.0 | ●      |  | ●      | ▲      |  |  |        |               | ●      | ▲ |  |  |
|  | XNEX040304TR | 6.71               | 3.29 | 4.3 | 3.1  | 0.4 | ●      |  | ●      | ▲      |  |  |        |               | ●      | ▲ |  |  |
|   | XNEX040308TR | 6.71               | 3.29 | 4.3 | 3.1  | 0.8 | ●      |  | ●      | ▲      |  |  |        |               | ●      | ▲ |  |  |
|   | XNEX080608TR | 12.48              | 6.45 | 8.0 | 4.65 | 0.8 | ●      |  | ●      | ▲      |  |  |        |               | ●      | ▲ |  |  |

工件材料  
Workpiece Material

| 材料       | P | M | K | N | S | H |
|----------|---|---|---|---|---|---|
| 钢        |   |   |   |   |   | ○ |
| 不锈钢      |   | ○ | × | √ | √ | √ |
| 铸铁       |   |   |   |   |   | ○ |
| 有色金属     |   |   |   |   |   | ○ |
| 耐热合金、钛合金 |   |   |   |   |   | √ |
| 淬硬钢      |   |   |   |   |   | √ |

▲为主推荐牌号 Recommended grade (Always stock available) ●按订单生产可选牌号 Make-to-order

A 车削刀片

B 铣削刀片

C 孔加工刀片

A 车削刀片

B 铣削刀片

C 孔加工刀片

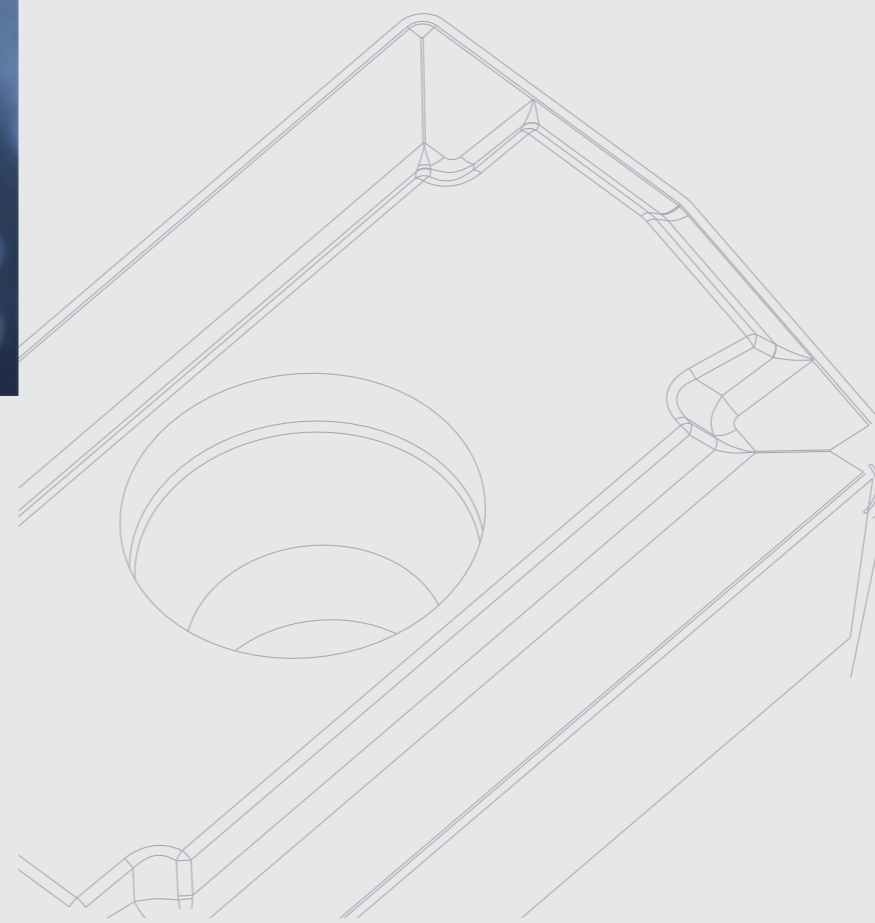




## 孔加工刀片 Hole Machining Inserts

|                                     |     |
|-------------------------------------|-----|
| 深孔钻刀片 Deep-hole Drilling Inserts    | 075 |
| 刮削滚光刀片 Scraping and rolling inserts | 082 |
| 浅孔钻刀片 Shallow Hole Drilling Inserts | 084 |

Newcermets®  
新陶新材



## HOLE MACHINING INSERTS

### 孔加工刀片





















# *NewCermets*<sup>®</sup> 新陶新材

## 株洲新陶新材料有限公司

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