

# CARBIDE



Being the best through innovation



# K-2 CARBIDE

- 有涂层, 普通用途.  
常规或高速切削, 干式或湿式切削.

**General Purpose as Coating.**  
**Conventional or High Speed Milling, Wet or Dry Cutting.**

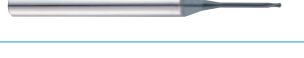
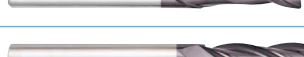
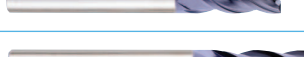
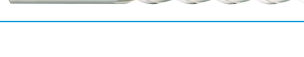
# SELECTION GUIDE

| 项目<br>ITEM   | 型号<br>MODEL                                                                         | 规格<br>DESCRIPTION                                                   | 尺寸<br>SIZE |           | 页<br>PAGE  |
|--------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------|------------|-----------|------------|
|              |                                                                                     |                                                                     | 最小<br>MIN  | 最大<br>MAX |            |
|              |                                                                                     |                                                                     |            |           |            |
| <b>G9B80</b> |    | 硬质合金 2刃 深孔加工<br>CARBIDE, 2 FLUTE RIB PROCESSING                     | D0.4       | D4.0      | <b>816</b> |
| <b>G9B81</b> |    | 硬质合金 2刃 球头 深孔加工<br>CARBIDE, 2 FLUTE BALL NOSE RIB PROCESSING        | R0.2       | R2.0      | <b>818</b> |
| <b>G9B82</b> |    | 硬质合金 2刃 短刃 圆鼻铣刀<br>CARBIDE, 2 FLUTE SHORT LENGTH CORNER RADIUS      | D2.0       | D12.0     | <b>820</b> |
| <b>G9B83</b> |    | 硬质合金 2刃 长刃 圆鼻铣刀<br>CARBIDE, 2 FLUTE LONG REACH CORNER RADIUS        | D3.0       | D12.0     | <b>822</b> |
| <b>G9B84</b> |    | 硬质合金 4刃 短刃 圆鼻铣刀<br>CARBIDE, 4 FLUTE SHORT LENGTH CORNER RADIUS      | D2.0       | D12.0     | <b>823</b> |
| <b>G9B85</b> |    | 硬质合金 4刃 长刃 圆鼻铣刀<br>CARBIDE, 4 FLUTE LONG REACH CORNER RADIUS        | D3.0       | D12.0     | <b>825</b> |
| <b>G9A23</b> |   | 硬质合金, 2刃 普通刃<br>CARBIDE, 2 FLUTE REGULAR LENGTH                     | D1.0       | D20.0     | <b>826</b> |
| <b>G9B50</b> |  | 硬质合金, 2刃 长型<br>CARBIDE, 2 FLUTE LONG LENGTH                         | D1.0       | D20.0     | <b>827</b> |
| <b>G9A24</b> |  | 硬质合金, 4刃 普通刃<br>CARBIDE, 4 FLUTE REGULAR LENGTH                     | D1.0       | D20.0     | <b>828</b> |
| <b>G9B51</b> |  | 硬质合金, 4刃 长型<br>CARBIDE, 4 FLUTE LONG LENGTH                         | D1.0       | D20.0     | <b>829</b> |
| <b>G9A25</b> |  | 硬质合金, 2刃 普通刃 球头<br>CARBIDE, 2 FLUTE REGULAR LENGTH BALL NOSE        | R0.5       | R10.0     | <b>830</b> |
| <b>G9B52</b> |  | 硬质合金, 2刃 长型 球头<br>CARBIDE, 2 FLUTE LONG LENGTH BALL NOSE            | R0.5       | R10.0     | <b>831</b> |
| <b>EMC52</b> |  | 硬质合金, 2刃 35度螺旋角 短型<br>CARBIDE, 2 FLUTE 35° HELIX SHORT LENGTH       | D1.0       | D20.0     | <b>832</b> |
| <b>EMC53</b> |  | 硬质合金, 2刃 35度螺旋角 长型<br>CARBIDE, 2 FLUTE 35° HELIX LONG LENGTH        | D2.0       | D20.0     | <b>833</b> |
| <b>EMC54</b> |  | 硬质合金, 4刃 35度螺旋角 短型<br>CARBIDE, 4 FLUTE 35° HELIX SHORT LENGTH       | D1.0       | D20.0     | <b>834</b> |
| <b>EMC55</b> |  | 硬质合金, 4刃 35度螺旋角 长型<br>CARBIDE, 4 FLUTE 35° HELIX LONG LENGTH        | D2.0       | D20.0     | <b>835</b> |
| <b>EMC56</b> |  | 硬质合金, 2刃 球头 短型<br>CARBIDE, 2 FLUTE BALL NOSE SHORT LENGTH           | R0.1       | R10.0     | <b>836</b> |
| <b>EMC57</b> |  | 硬质合金, 4(6)刃 45度螺旋角 短型<br>CARBIDE, 4(6) FLUTE 45° HELIX SHORT LENGTH | D1.0       | D20.0     | <b>837</b> |

◎：优(Excellent)    ○：良(Good)

**YG** YG-1 CO., LTD.

# SELECTION GUIDE

| 项目                                        | 型号                                                                                  | 规格                                                                           | 尺寸   |       | 页    |
|-------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------|------|-------|------|
|                                           |                                                                                     |                                                                              | 最小   | 最大    |      |
|                                           |                                                                                     |                                                                              | SIZE |       |      |
| ITEM                                      | MODEL                                                                               | DESCRIPTION                                                                  | MIN  | MAX   | PAGE |
| EMC58                                     |    | 硬质合金, 6刃 45度螺旋角 长型<br>CARBIDE, 6 FLUTE 45° HELIX LONG LENGTH                 | D6.0 | D20.0 | 838  |
| EMC59                                     |    | 硬质合金, 2刃 长颈型<br>CARBIDE, 2FLUTE LONG NECK                                    | D0.4 | D6.0  | 839  |
| EMC60                                     |    | 硬质合金, 2刃 长颈型 球头<br>CARBIDE, 2FLUTE LONG NECK BALL NOSE                       | R0.2 | R3.0  | 844  |
| EMC61                                     |    | 硬质合金, 2刃 圆鼻铣刀<br>CARBIDE, 2FLUTE CORNER RADIUS                               | D3.0 | D12.0 | 848  |
| EMC62                                     |    | 硬质合金, 4刃 圆鼻铣刀<br>CARBIDE, 4FLUTE CORNER RADIUS                               | D3.0 | D12.0 | 849  |
| GFC63                                     |   | 硬质合金, 2刃 长颈延伸<br>CARBIDE, 2 FLUTE EXTENDED NECK                              | D0.4 | D20.0 | 850  |
| GFC64                                     |  | 硬质合金, 4刃 长颈延伸<br>CARBIDE, 4 FLUTE EXTENDED NECK                              | D1.0 | D20.0 | 851  |
| GFC65                                     |  | 硬质合金, 2刃 球头 短型<br>CARBIDE, 2 FLUTE BALL NOSE SHORT LENGTH                    | R0.1 | R6.0  | 852  |
| GFC66                                     |  | 硬质合金, 2刃 球头 超短型 长颈延伸<br>CARBIDE, 2 FLUTE BALL NOSE STUB LENGTH EXTENDED NECK | R0.5 | R10.0 | 853  |
| EMC67                                     |  | 硬质合金, 4刃 短型<br>CARBIDE, 4 FLUTE SHORT LENGTH                                 | D6.0 | D20.0 | 854  |
| EMC68                                     |  | 硬质合金, 4刃 长型<br>CARBIDE, 4 FLUTE LONG LENGTH                                  | D6.0 | D20.0 | 855  |
| EMC69                                     |  | 硬质合金, 多种刃 45度螺旋角 螺纹 - 细螺纹<br>CARBIDE, MULTI FLUTE 45° HELIX ROUGHING - FINE  | D6.0 | D20.0 | 856  |
| E5C70                                     |  | 硬质合金, 2刃 45度螺旋角 短型<br>CARBIDE, 2 FLUTE 45° HELIX SHORT LENGTH                | D1.0 | D20.0 | 857  |
| E5C71                                     |  | 硬质合金, 2刃 45度螺旋角 中等长度<br>CARBIDE, 2 FLUTE 45° HELIX MEDIUM LENGTH             | D4.0 | D20.0 | 858  |
| E5C72                                     |  | 硬质合金, 3刃 45度螺旋角 短型<br>CARBIDE, 3 FLUTE 45° HELIX SHORT LENGTH                | D1.0 | D20.0 | 859  |
| E5C73                                     |  | 硬质合金, 3刃 45度螺旋角 中等长度<br>CARBIDE, 3 FLUTE 45° HELIX MEDIUM LENGTH             | D4.0 | D20.0 | 860  |
| E5C74                                     |  | 硬质合金, 3刃 45度螺旋角 超长型<br>CARBIDE, 3 FLUTE 45° HELIX EX-LONG LENGTH             | D3.0 | D20.0 | 861  |
| 推荐的切削条件<br>RECOMMENDED CUTTING CONDITIONS |                                                                                     |                                                                              |      |       | 863  |

## K-2 CARBIDE END MILLS

◎ : 优(Excellent) ○ : 良(Good)

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



# K-2 CARBIDE END MILLS

**G9B80** SERIES

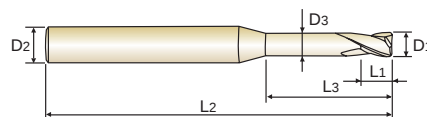
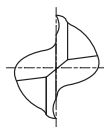
PLAIN SHANK

**硬质合金, 2刃 深孔加工**

## CARBIDE, 2 FLUTE RIB PROCESSING

- ▶ 适于高温干切削
- ▶ 卓越的高性能铣刀
- ▶ 2刃为槽铣设计

- ▶ Suitable for dry milling applications at high temperatures.
- ▶ Excellent high-performance end mills.
- ▶ 2 flute design for slotting.


**MG  
HM**
**2**
**30°**
**DIN  
6535HA**


P.863

单位(Unit) : mm

| 型号<br>EDP No. | 刃部直径<br>Mill Diameter<br>D1 | 柄部直径<br>Shank Diameter<br>D2 | 刃长<br>Length of Cut<br>L1 | 颈长<br>Length Below Shank<br>L3 | 全长<br>Overall Length<br>L2 | 颈径<br>Neck Diameter<br>D3 |
|---------------|-----------------------------|------------------------------|---------------------------|--------------------------------|----------------------------|---------------------------|
| G9B80004      | 0.4                         | 4                            | 0.7                       | 2                              | 50                         | 0.37                      |
| G9B80901      | 0.4                         | 4                            | 0.7                       | 4                              | 50                         | 0.37                      |
| G9B80005      | 0.5                         | 4                            | 0.75                      | 2                              | 50                         | 0.45                      |
| G9B80902      | 0.5                         | 4                            | 0.75                      | 4                              | 50                         | 0.45                      |
| G9B80903      | 0.5                         | 4                            | 0.75                      | 6                              | 50                         | 0.45                      |
| G9B80006      | 0.6                         | 4                            | 0.9                       | 2                              | 50                         | 0.55                      |
| G9B80904      | 0.6                         | 4                            | 0.9                       | 4                              | 50                         | 0.55                      |
| G9B80905      | 0.6                         | 4                            | 0.9                       | 6                              | 50                         | 0.55                      |
| G9B80007      | 0.7                         | 4                            | 1.1                       | 4                              | 50                         | 0.65                      |
| G9B80906      | 0.7                         | 4                            | 1.1                       | 6                              | 50                         | 0.65                      |
| G9B80008      | 0.8                         | 4                            | 1.2                       | 4                              | 50                         | 0.75                      |
| G9B80907      | 0.8                         | 4                            | 1.2                       | 6                              | 50                         | 0.75                      |
| G9B80908      | 0.8                         | 4                            | 1.2                       | 8                              | 50                         | 0.75                      |
| G9B80009      | 0.9                         | 4                            | 1.4                       | 6                              | 50                         | 0.85                      |
| G9B80909      | 0.9                         | 4                            | 1.4                       | 8                              | 50                         | 0.85                      |
| G9B80910      | 0.9                         | 4                            | 1.4                       | 10                             | 50                         | 0.85                      |
| G9B80010      | 1.0                         | 4                            | 1.5                       | 6                              | 50                         | 0.95                      |
| G9B80911      | 1.0                         | 4                            | 1.5                       | 8                              | 50                         | 0.95                      |
| G9B80912      | 1.0                         | 4                            | 1.5                       | 10                             | 50                         | 0.95                      |
| G9B80913      | 1.0                         | 4                            | 1.5                       | 12                             | 50                         | 0.95                      |
| G9B80012      | 1.2                         | 4                            | 1.8                       | 6                              | 50                         | 1.15                      |
| G9B80914      | 1.2                         | 4                            | 1.8                       | 8                              | 50                         | 1.15                      |
| G9B80915      | 1.2                         | 4                            | 1.8                       | 10                             | 50                         | 1.15                      |
| G9B80916      | 1.2                         | 4                            | 1.8                       | 12                             | 50                         | 1.15                      |
| G9B80015      | 1.5                         | 4                            | 2.3                       | 6                              | 50                         | 1.45                      |
| G9B80917      | 1.5                         | 4                            | 2.3                       | 8                              | 50                         | 1.45                      |
| G9B80918      | 1.5                         | 4                            | 2.3                       | 10                             | 50                         | 1.45                      |
| G9B80919      | 1.5                         | 4                            | 2.3                       | 12                             | 50                         | 1.45                      |
| G9B80920      | 1.5                         | 4                            | 2.3                       | 14                             | 50                         | 1.45                      |
| G9B80921      | 1.5                         | 4                            | 2.3                       | 16                             | 50                         | 1.45                      |

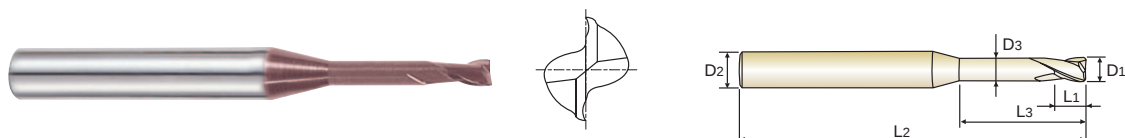
◎ : 优(Excellent) ○ : 良(Good)

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

**硬质合金, 2刃 深孔加工**  
**CARBIDE, 2 FLUTE RIB PROCESSING**

- ▶ 适于高温干切削
- ▶ 卓越的高性能铣刀
- ▶ 2刃为槽铣设计

- ▶ Suitable for dry milling applications at high temperatures.
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- ▶ 2 flute design for slotting.



P.863

单位(Unit) : mm

| 型号<br>EDP No. | 刃部直径<br>Mill Diameter<br>D1 | 柄部直径<br>Shank Diameter<br>D2 | 刃长<br>Length of Cut<br>L1 | 颈长<br>Length Below Shank<br>L3 | 全长<br>Overall Length<br>L2 | 颈径<br>Neck Diameter<br>D3 |
|---------------|-----------------------------|------------------------------|---------------------------|--------------------------------|----------------------------|---------------------------|
| G9B80922      | 1.5                         | 4                            | 2.3                       | 18                             | 50                         | 1.45                      |
| G9B80923      | 1.5                         | 4                            | 2.3                       | 20                             | 50                         | 1.45                      |
| G9B80020      | 2.0                         | 4                            | 3                         | 6                              | 50                         | 1.95                      |
| G9B80924      | 2.0                         | 4                            | 3                         | 8                              | 50                         | 1.95                      |
| G9B80925      | 2.0                         | 4                            | 3                         | 10                             | 50                         | 1.95                      |
| G9B80926      | 2.0                         | 4                            | 3                         | 12                             | 50                         | 1.95                      |
| G9B80927      | 2.0                         | 4                            | 3                         | 14                             | 50                         | 1.95                      |
| G9B80928      | 2.0                         | 4                            | 3                         | 16                             | 50                         | 1.95                      |
| G9B80929      | 2.0                         | 4                            | 3                         | 18                             | 50                         | 1.95                      |
| G9B80930      | 2.0                         | 4                            | 3                         | 20                             | 50                         | 1.95                      |
| G9B80025      | 2.5                         | 4                            | 3.7                       | 8                              | 50                         | 2.40                      |
| G9B80931      | 2.5                         | 4                            | 3.7                       | 12                             | 50                         | 2.40                      |
| G9B80932      | 2.5                         | 4                            | 3.7                       | 16                             | 50                         | 2.40                      |
| G9B80933      | 2.5                         | 4                            | 3.7                       | 20                             | 50                         | 2.40                      |
| G9B80030      | 3.0                         | 6                            | 4.5                       | 8                              | 50                         | 2.85                      |
| G9B80934      | 3.0                         | 6                            | 4.5                       | 12                             | 50                         | 2.85                      |
| G9B80935      | 3.0                         | 6                            | 4.5                       | 16                             | 60                         | 2.85                      |
| G9B80936      | 3.0                         | 6                            | 4.5                       | 20                             | 60                         | 2.85                      |
| G9B80937      | 3.0                         | 6                            | 4.5                       | 25                             | 75                         | 2.85                      |
| G9B80040      | 4.0                         | 6                            | 6                         | 12                             | 50                         | 3.85                      |
| G9B80938      | 4.0                         | 6                            | 6                         | 16                             | 60                         | 3.85                      |
| G9B80939      | 4.0                         | 6                            | 6                         | 20                             | 75                         | 3.85                      |
| G9B80940      | 4.0                         | 6                            | 6                         | 25                             | 75                         | 3.85                      |
| G9B80941      | 4.0                         | 6                            | 6                         | 30                             | 75                         | 3.85                      |
| G9B80942      | 4.0                         | 6                            | 6                         | 35                             | 75                         | 3.85                      |

| 刃部公差<br>Mill Dia.<br>Tolerance(mm) | 柄部公差<br>Shank Dia.<br>Tolerance |
|------------------------------------|---------------------------------|
| 0~-0.03                            | h6                              |

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

◎ : 优(Excellent) ○ : 良(Good)



# K-2 CARBIDE END MILLS

G9B81 SERIES

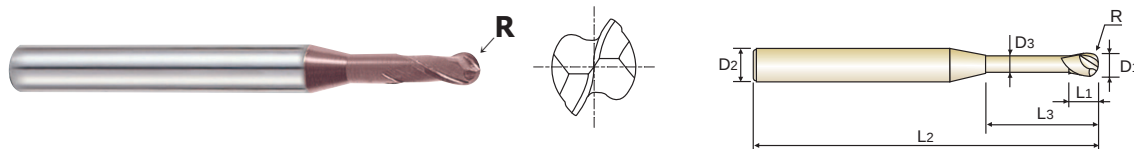
PLAIN SHANK

## 硬质合金, 2刃 球头 深孔加工

## CARBIDE, 2 FLUTE BALL NOSE for RIB PROCESSING

- ▶ 适于高温干切削
- ▶ 卓越的高性能铣刀
- ▶ 设计用于加工圆底沟槽带和特殊轮廓

- ▶ Suitable for dry milling applications at high temperatures.
- ▶ Excellent high-performance end mills.
- ▶ Designed for milling of radius bottom slots, fillets and special contours.

MG  
HM

2

30°

R  
±0.02DIN  
6535HA

P.864

单位(Unit) : mm

| 型号<br>EDP No. | 球头半径<br>Radius of<br>Ball Nose<br>R (±0.02) | 刃部直径<br>Mill<br>Diameter<br>D1 | 柄部直径<br>Shank<br>Diameter<br>D2 | 刃长<br>Length of<br>Cut<br>L1 | 颈长<br>Length<br>Below Shank<br>L3 | 全长<br>Overall<br>Length<br>L2 | 颈径<br>Neck<br>Diameter<br>D3 |
|---------------|---------------------------------------------|--------------------------------|---------------------------------|------------------------------|-----------------------------------|-------------------------------|------------------------------|
| G9B81004      | R0.2                                        | 0.4                            | 4                               | 0.7                          | 2                                 | 50                            | 0.37                         |
| G9B81005      | R0.25                                       | 0.5                            | 4                               | 0.75                         | 2                                 | 50                            | 0.45                         |
| G9B81901      | R0.25                                       | 0.5                            | 4                               | 0.75                         | 4                                 | 50                            | 0.45                         |
| G9B81902      | R0.25                                       | 0.5                            | 4                               | 0.75                         | 6                                 | 50                            | 0.45                         |
| G9B81006      | R0.3                                        | 0.6                            | 4                               | 0.9                          | 2                                 | 50                            | 0.55                         |
| G9B81903      | R0.3                                        | 0.6                            | 4                               | 0.9                          | 4                                 | 50                            | 0.55                         |
| G9B81904      | R0.3                                        | 0.6                            | 4                               | 0.9                          | 6                                 | 50                            | 0.55                         |
| G9B81008      | R0.4                                        | 0.8                            | 4                               | 1.2                          | 4                                 | 50                            | 0.75                         |
| G9B81905      | R0.4                                        | 0.8                            | 4                               | 1.2                          | 6                                 | 50                            | 0.75                         |
| G9B81906      | R0.4                                        | 0.8                            | 4                               | 1.2                          | 8                                 | 50                            | 0.75                         |
| G9B81010      | R0.5                                        | 1.0                            | 4                               | 1.5                          | 6                                 | 50                            | 0.95                         |
| G9B81907      | R0.5                                        | 1.0                            | 4                               | 1.5                          | 8                                 | 50                            | 0.95                         |
| G9B81908      | R0.5                                        | 1.0                            | 4                               | 1.5                          | 10                                | 50                            | 0.95                         |
| G9B81909      | R0.5                                        | 1.0                            | 4                               | 1.5                          | 12                                | 50                            | 0.95                         |
| G9B81012      | R0.6                                        | 1.2                            | 4                               | 1.8                          | 8                                 | 50                            | 1.15                         |
| G9B81910      | R0.6                                        | 1.2                            | 4                               | 1.8                          | 12                                | 50                            | 1.15                         |
| G9B81014      | R0.7                                        | 1.4                            | 4                               | 2.1                          | 16                                | 50                            | 1.35                         |
| G9B81015      | R0.75                                       | 1.5                            | 4                               | 2.3                          | 6                                 | 50                            | 1.45                         |
| G9B81911      | R0.75                                       | 1.5                            | 4                               | 2.3                          | 8                                 | 50                            | 1.45                         |
| G9B81912      | R0.75                                       | 1.5                            | 4                               | 2.3                          | 10                                | 50                            | 1.45                         |
| G9B81913      | R0.75                                       | 1.5                            | 4                               | 2.3                          | 12                                | 50                            | 1.45                         |
| G9B81914      | R0.75                                       | 1.5                            | 4                               | 2.3                          | 16                                | 50                            | 1.45                         |
| G9B81915      | R0.75                                       | 1.5                            | 4                               | 2.3                          | 20                                | 50                            | 1.45                         |
| G9B81016      | R0.8                                        | 1.6                            | 4                               | 2.4                          | 8                                 | 50                            | 1.55                         |
| G9B81916      | R0.8                                        | 1.6                            | 4                               | 2.4                          | 12                                | 50                            | 1.55                         |
| G9B81917      | R0.8                                        | 1.6                            | 4                               | 2.4                          | 16                                | 50                            | 1.55                         |

◎ : 优(Excellent) ○ : 良(Good)

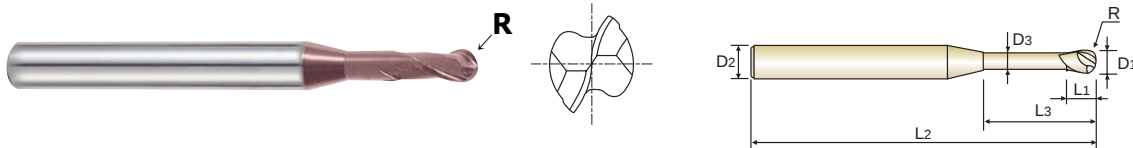
| 碳钢<br>Carbon Steels | 合金钢<br>Alloy Steels | 预硬钢<br>Prehardened Steels | 硬化钢<br>Hardened Steels |          | 高硬钢<br>High Hardened Steels | 铜<br>Copper | 石墨<br>Graphite | 铸铁<br>Cast Iron | 铝<br>Aluminum | 不锈钢<br>Stainless Steels | 钛<br>Titanium | 镍钛合金<br>Inconel |
|---------------------|---------------------|---------------------------|------------------------|-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

# 硬质合金, 2刃 球头 深孔加工

## CARBIDE, 2 FLUTE BALL NOSE for RIB PROCESSING

- ▶ 适于高温干切削
- ▶ 卓越的高性能铣刀
- ▶ 设计用于加工圆底沟槽带和特殊轮廓

- ▶ Suitable for dry milling applications at high temperatures.
- ▶ Excellent high-performance end mills.
- ▶ Designed for milling of radius bottom slots, fillets and special contours.



单位(Unit) : mm

| 型号<br>EDP No. | 球头半径<br>Radius of Ball Nose<br>R (±0.02) | 刃部直径<br>Mill Diameter<br>D1 | 柄部直径<br>Shank Diameter<br>D2 | 刃长<br>Length of Cut<br>L1 | 颈长<br>Length Below Shank<br>L3 | 全长<br>Overall Length<br>L2 | 颈径<br>Neck Diameter<br>D3 |
|---------------|------------------------------------------|-----------------------------|------------------------------|---------------------------|--------------------------------|----------------------------|---------------------------|
| G9B81918      | R0.8                                     | 1.6                         | 4                            | 2.4                       | 20                             | 50                         | 1.55                      |
| G9B81020      | R1.0                                     | 2.0                         | 4                            | 3                         | 8                              | 50                         | 1.95                      |
| G9B81919      | R1.0                                     | 2.0                         | 4                            | 3                         | 10                             | 50                         | 1.95                      |
| G9B81920      | R1.0                                     | 2.0                         | 4                            | 3                         | 12                             | 50                         | 1.95                      |
| G9B81921      | R1.0                                     | 2.0                         | 4                            | 3                         | 14                             | 50                         | 1.95                      |
| G9B81922      | R1.0                                     | 2.0                         | 4                            | 3                         | 16                             | 50                         | 1.95                      |
| G9B81923      | R1.0                                     | 2.0                         | 4                            | 3                         | 20                             | 50                         | 1.95                      |
| G9B81030      | R1.5                                     | 3.0                         | 6                            | 4.5                       | 10                             | 50                         | 2.85                      |
| G9B81924      | R1.5                                     | 3.0                         | 6                            | 4.5                       | 12                             | 50                         | 2.85                      |
| G9B81925      | R1.5                                     | 3.0                         | 6                            | 4.5                       | 16                             | 60                         | 2.85                      |
| G9B81926      | R1.5                                     | 3.0                         | 6                            | 4.5                       | 20                             | 60                         | 2.85                      |
| G9B81927      | R1.5                                     | 3.0                         | 6                            | 4.5                       | 25                             | 75                         | 2.85                      |
| G9B81040      | R2.0                                     | 4.0                         | 6                            | 6                         | 12                             | 50                         | 3.85                      |
| G9B81928      | R2.0                                     | 4.0                         | 6                            | 6                         | 16                             | 60                         | 3.85                      |
| G9B81929      | R2.0                                     | 4.0                         | 6                            | 6                         | 20                             | 75                         | 3.85                      |
| G9B81930      | R2.0                                     | 4.0                         | 6                            | 6                         | 25                             | 75                         | 3.85                      |
| G9B81931      | R2.0                                     | 4.0                         | 6                            | 6                         | 30                             | 75                         | 3.85                      |

| 刃部公差<br>Mill Dia.<br>Tolerance(mm) | 柄部公差<br>Shank Dia.<br>Tolerance |
|------------------------------------|---------------------------------|
| 0~-0.03                            | h6                              |

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

◎ : 优(Excellent) ○ : 良(Good)

CARBIDE

HSS



# K-2 CARBIDE END MILLS

G9B82 SERIES

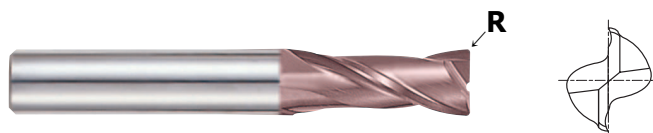
PLAIN SHANK

## 硬质合金, 2刃 短刃 圆鼻铣刀

## CARBIDE, 2 FLUTE SHORT LENGTH CORNER RADIUS

- ▶ 适于高温干切削
- ▶ 卓越的高性能铣刀
- ▶ 2刃为槽铣设计

- ▶ Suitable for dry milling applications at high temperatures.
- ▶ Excellent high-performance end mills.
- ▶ 2 flute design for slotting.

MG  
HM

2

30°

DIN  
6535HA

P.865

Unit : mm

| 型号<br>EDP No. | 圆弧半径<br>Corner Radius<br>R | 刃部直径<br>Mill Diameter | 柄部直径<br>Shank Diameter | 刃长<br>Length of Cut | 全长<br>Overall Length |
|---------------|----------------------------|-----------------------|------------------------|---------------------|----------------------|
| G9B82020      | RO.2                       | 2.0                   | 4                      | 4                   | 50                   |
| G9B82901      | RO.3                       | 2.0                   | 4                      | 4                   | 50                   |
| G9B82902      | RO.5                       | 2.0                   | 4                      | 4                   | 50                   |
| G9B82025      | RO.2                       | 2.5                   | 4                      | 5                   | 50                   |
| G9B82903      | RO.3                       | 2.5                   | 4                      | 5                   | 50                   |
| G9B82904      | RO.5                       | 2.5                   | 4                      | 5                   | 50                   |
| G9B82030      | RO.2                       | 3.0                   | 4                      | 6                   | 50                   |
| G9B82905      | RO.3                       | 3.0                   | 4                      | 6                   | 50                   |
| G9B82906      | RO.5                       | 3.0                   | 4                      | 6                   | 50                   |
| G9B82907      | R1.0                       | 3.0                   | 4                      | 6                   | 50                   |
| G9B82040      | RO.2                       | 4.0                   | 4                      | 8                   | 50                   |
| G9B82908      | RO.3                       | 4.0                   | 4                      | 8                   | 50                   |
| G9B82909      | RO.5                       | 4.0                   | 4                      | 8                   | 50                   |
| G9B82910      | R1.0                       | 4.0                   | 4                      | 8                   | 50                   |
| G9B82050      | RO.2                       | 5.0                   | 6                      | 10                  | 50                   |
| G9B82911      | RO.3                       | 5.0                   | 6                      | 10                  | 50                   |
| G9B82912      | RO.5                       | 5.0                   | 6                      | 10                  | 50                   |
| G9B82913      | R1.0                       | 5.0                   | 6                      | 10                  | 50                   |
| G9B82060      | RO.2                       | 6.0                   | 6                      | 12                  | 50                   |
| G9B82914      | RO.3                       | 6.0                   | 6                      | 12                  | 50                   |
| G9B82915      | RO.5                       | 6.0                   | 6                      | 12                  | 50                   |
| G9B82916      | R1.0                       | 6.0                   | 6                      | 12                  | 50                   |

◎ : 优(Excellent) ○ : 良(Good)

| 碳钢<br>Carbon Steels | 合金钢<br>Alloy Steels | 预硬钢<br>Prehardened Steels | 硬化钢<br>Hardened Steels | 高硬钢<br>High Hardened Steels | 铜<br>Copper | 石墨<br>Graphite | 铸铁<br>Cast Iron | 铝<br>Aluminum | 不锈钢<br>Stainless Steels | 钛<br>Titanium | 镍钴铁合金<br>Inconel |
|---------------------|---------------------|---------------------------|------------------------|-----------------------------|-------------|----------------|-----------------|---------------|-------------------------|---------------|------------------|
| ~HB225              | HB225~325           | HRc30~40                  | HRc40~45 HRc45~55      | HRc55~70                    |             |                |                 |               |                         |               |                  |
| ◎                   | ◎                   | ◎                         | ○                      |                             |             |                | ○               | ○             | ○                       |               |                  |

**硬质合金, 2刃 短刃 圆鼻铣刀**
**CARBIDE, 2 FLUTE SHORT LENGTH CORNER RADIUS**

- ▶ 适于高温干切削
- ▶ 卓越的高性能铣刀
- ▶ 2刃为槽铣设计

- ▶ Suitable for dry milling applications at high temperatures.
- ▶ Excellent high-performance end mills.
- ▶ 2 flute design for slotting.



P.865

Unit : mm

| 型号<br>EDP No. | 圆弧半径<br>Corner Radius<br>R | 刃部直径<br>Mill Diameter | 柄部直径<br>Shank Diameter | 刃长<br>Length of Cut | 全长<br>Overall Length |
|---------------|----------------------------|-----------------------|------------------------|---------------------|----------------------|
| G9B82080      | R0.5                       | 8.0                   | 8                      | 16                  | 60                   |
| G9B82917      | R1.0                       | 8.0                   | 8                      | 16                  | 60                   |
| G9B82918      | R1.5                       | 8.0                   | 8                      | 16                  | 60                   |
| G9B82919      | R2.0                       | 8.0                   | 8                      | 16                  | 60                   |
| G9B82920      | R2.5                       | 8.0                   | 8                      | 16                  | 60                   |
| G9B82100      | R0.5                       | 10.0                  | 10                     | 20                  | 75                   |
| G9B82921      | R1.0                       | 10.0                  | 10                     | 20                  | 75                   |
| G9B82922      | R1.5                       | 10.0                  | 10                     | 20                  | 75                   |
| G9B82923      | R2.0                       | 10.0                  | 10                     | 20                  | 75                   |
| G9B82924      | R2.5                       | 10.0                  | 10                     | 20                  | 75                   |
| G9B82120      | R0.5                       | 12.0                  | 12                     | 24                  | 75                   |
| G9B82925      | R1.0                       | 12.0                  | 12                     | 24                  | 75                   |
| G9B82926      | R1.5                       | 12.0                  | 12                     | 24                  | 75                   |
| G9B82927      | R2.0                       | 12.0                  | 12                     | 24                  | 75                   |
| G9B82928      | R2.5                       | 12.0                  | 12                     | 24                  | 75                   |

| 刃部公差<br>Mill Dia.<br>Tolerance(mm) | 柄部公差<br>Shank Dia.<br>Tolerance |
|------------------------------------|---------------------------------|
| 0~-0.03                            | h6                              |

| 碳钢            | 合金钢          | 预硬钢                | 硬化钢               | 高硬钢                  | 铜      | 石墨       | 铸铁        | 铝        | 不锈钢              | 钛        | 镍钴铁合金   |
|---------------|--------------|--------------------|-------------------|----------------------|--------|----------|-----------|----------|------------------|----------|---------|
| Carbon Steels | Alloy Steels | Prehardened Steels | Hardened Steels   | High Hardened Steels | Copper | Graphite | Cast Iron | Aluminum | Stainless Steels | Titanium | Inconel |
| ~HB225        | HB225~325    | HRC30~40           | HRc40~45 HRc45~55 | HRC55~70             |        |          |           |          |                  |          |         |
| ◎             | ◎            | ◎                  | ○                 |                      |        |          | ○         | ○        | ○                |          |         |

◎ : 优(Excellent) ○ : 良(Good)

CBN  
END MILLSi-Xmill  
END MILLSX5070  
END MILLSX-POWER  
END MILLSJET-POWER  
END MILLSV7 Mill INOX  
END MILLSV7 Mill STEEL  
END MILLSALU-POWER  
END MILLS

CRX S

D-POWER  
END MILLSK-2 CARBIDE  
END MILLSGENERAL  
CARBIDE  
END MILLSTANK-POWER  
END MILLSGENERAL  
HSS  
END MILLSMILLING  
CUTTERSTECHNICAL  
DATA



# K-2 CARBIDE END MILLS

**G9B83** SERIES

PLAIN SHANK

**硬质合金, 2刃 长刃 圆鼻铣刀**
**CARBIDE, 2 FLUTE LONG REACH CORNER RADIUS**

- ▶ 适于高温干切削
- ▶ 卓越的高性能铣刀
- ▶ 2刃为槽铣设计

- ▶ Suitable for dry milling applications at high temperatures.
- ▶ Excellent high-performance end mills.
- ▶ 2 flute design for slotting.


**MG  
HM**
**2**
**30°**
**DIN  
6535HA**


P.865

Unit : mm

| 型号<br>EDP No. | 圆弧半径<br>Corner Radius<br>R | 刃部直径<br>Mill Diameter | 柄部直径<br>Shank Diameter | 刃长<br>Length of Cut | 全长<br>Overall Length |
|---------------|----------------------------|-----------------------|------------------------|---------------------|----------------------|
| G9B83030      | R0.5                       | 3.0                   | 4                      | 6                   | 75                   |
| G9B83901      | R1.0                       | 3.0                   | 4                      | 6                   | 75                   |
| G9B83040      | R0.5                       | 4.0                   | 4                      | 8                   | 75                   |
| G9B83902      | R1.0                       | 4.0                   | 4                      | 8                   | 75                   |
| G9B83050      | R0.5                       | 5.0                   | 6                      | 10                  | 75                   |
| G9B83903      | R1.0                       | 5.0                   | 6                      | 10                  | 75                   |
| G9B83060      | R0.5                       | 6.0                   | 6                      | 12                  | 75                   |
| G9B83904      | R1.0                       | 6.0                   | 6                      | 12                  | 75                   |
| G9B83080      | R0.5                       | 8.0                   | 8                      | 16                  | 100                  |
| G9B83905      | R1.0                       | 8.0                   | 8                      | 16                  | 100                  |
| G9B83906      | R1.5                       | 8.0                   | 8                      | 16                  | 100                  |
| G9B83907      | R2.0                       | 8.0                   | 8                      | 16                  | 100                  |
| G9B83908      | R2.5                       | 8.0                   | 8                      | 16                  | 100                  |
| G9B83100      | R0.5                       | 10.0                  | 10                     | 20                  | 100                  |
| G9B83909      | R1.0                       | 10.0                  | 10                     | 20                  | 100                  |
| G9B83910      | R1.5                       | 10.0                  | 10                     | 20                  | 100                  |
| G9B83911      | R2.0                       | 10.0                  | 10                     | 20                  | 100                  |
| G9B83912      | R2.5                       | 10.0                  | 10                     | 20                  | 100                  |
| G9B83120      | R0.5                       | 12.0                  | 12                     | 24                  | 100                  |
| G9B83913      | R1.0                       | 12.0                  | 12                     | 24                  | 100                  |
| G9B83914      | R1.5                       | 12.0                  | 12                     | 24                  | 100                  |
| G9B83915      | R2.0                       | 12.0                  | 12                     | 24                  | 100                  |
| G9B83916      | R2.5                       | 12.0                  | 12                     | 24                  | 100                  |

| 刃部公差<br>Mill Dia.<br>Tolerance(mm) | 柄部公差<br>Shank Dia.<br>Tolerance |
|------------------------------------|---------------------------------|
| 0~-0.03                            | h6                              |

◎ : 优(Excellent) ○ : 良(Good)

| 碳钢<br>Carbon Steels | 合金钢<br>Alloy Steels | 预硬钢<br>Prehardened Steels | 硬化钢<br>Hardened Steels | 高硬钢<br>High Hardened Steels | 铜<br>Copper | 石墨<br>Graphite | 铸铁<br>Cast Iron | 铝<br>Aluminum | 不锈钢<br>Stainless Steels | 钛<br>Titanium | 镍钴铁合金<br>Inconel |
|---------------------|---------------------|---------------------------|------------------------|-----------------------------|-------------|----------------|-----------------|---------------|-------------------------|---------------|------------------|
| ~HB225              | HB225~325           | HRc30~40                  | HRc40~45 HRc45~55      | HRc55~70                    |             |                |                 |               |                         |               |                  |
| ◎                   | ◎                   | ◎                         | ○                      |                             |             |                | ○               | ○             | ○                       |               |                  |

**硬质合金, 4刃 短刃 圆鼻铣刀****CARBIDE, 4 FLUTE SHORT LENGTH CORNER RADIUS**

- ▶ 适于高温干切削
- ▶ 卓越的高性能铣刀
- ▶ 设计用于加工圆底沟槽带和特殊轮廓

- ▶ Suitable for dry milling applications at high temperatures.
- ▶ Excellent high-performance end mills.
- ▶ Designed for milling of radius bottom slots, fillets and special contours.



P.865

Unit : mm

| 型号<br>EDP No. | 圆弧半径<br>Corner Radius<br>R | 刃部直径<br>Mill Diameter | 柄部直径<br>Shank Diameter | 刃长<br>Length of Cut | 全长<br>Overall Length |
|---------------|----------------------------|-----------------------|------------------------|---------------------|----------------------|
| G9B84020      | RO.2                       | 2.0                   | 4                      | 4                   | 50                   |
| G9B84901      | RO.3                       | 2.0                   | 4                      | 4                   | 50                   |
| G9B84902      | RO.5                       | 2.0                   | 4                      | 4                   | 50                   |
| G9B84025      | RO.2                       | 2.5                   | 4                      | 5                   | 50                   |
| G9B84903      | RO.3                       | 2.5                   | 4                      | 5                   | 50                   |
| G9B84904      | RO.5                       | 2.5                   | 4                      | 5                   | 50                   |
| G9B84030      | RO.2                       | 3.0                   | 4                      | 6                   | 50                   |
| G9B84905      | RO.3                       | 3.0                   | 4                      | 6                   | 50                   |
| G9B84906      | RO.5                       | 3.0                   | 4                      | 6                   | 50                   |
| G9B84907      | R1.0                       | 3.0                   | 4                      | 6                   | 50                   |
| G9B84040      | RO.2                       | 4.0                   | 4                      | 8                   | 50                   |
| G9B84908      | RO.3                       | 4.0                   | 4                      | 8                   | 50                   |
| G9B84909      | RO.5                       | 4.0                   | 4                      | 8                   | 50                   |
| G9B84910      | R1.0                       | 4.0                   | 4                      | 8                   | 50                   |
| G9B84050      | RO.2                       | 5.0                   | 6                      | 10                  | 50                   |
| G9B84911      | RO.3                       | 5.0                   | 6                      | 10                  | 50                   |
| G9B84912      | RO.5                       | 5.0                   | 6                      | 10                  | 50                   |
| G9B84913      | R1.0                       | 5.0                   | 6                      | 10                  | 50                   |
| G9B84060      | RO.2                       | 6.0                   | 6                      | 12                  | 50                   |
| G9B84914      | RO.3                       | 6.0                   | 6                      | 12                  | 50                   |
| G9B84915      | RO.5                       | 6.0                   | 6                      | 12                  | 50                   |
| G9B84916      | R1.0                       | 6.0                   | 6                      | 12                  | 50                   |

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

◎ : 优(Excellent) ○ : 良(Good)

CARBIDE

HSS


**K-2 CARBIDE  
END MILLS**
**G9B84 SERIES**

PLAIN SHANK

**硬质合金, 4刃 短刃 圆鼻铣刀**
**CARBIDE, 4 FLUTE SHORT LENGTH CORNER RADIUS**

- ▶ 适于高温干切削
- ▶ 卓越的高性能铣刀
- ▶ 设计用于加工圆底沟槽带和特殊轮廓

- ▶ Suitable for dry milling applications at high temperatures.
- ▶ Excellent high-performance end mills.
- ▶ Designed for milling of radius bottom slots, fillets and special contours.


**MG  
HM**
**4**
**30°**
**DIN  
6535HA**


P.865

Unit : mm

| 型号<br>EDP No. | 圆弧半径<br>Corner Radius<br>R | 刃部直径<br>Mill Diameter | 柄部直径<br>Shank Diameter | 刃长<br>Length of Cut | 全长<br>Overall Length |
|---------------|----------------------------|-----------------------|------------------------|---------------------|----------------------|
| G9B84080      | R0.5                       | 8.0                   | 8                      | 16                  | 60                   |
| G9B84917      | R1.0                       | 8.0                   | 8                      | 16                  | 60                   |
| G9B84918      | R1.5                       | 8.0                   | 8                      | 16                  | 60                   |
| G9B84919      | R2.0                       | 8.0                   | 8                      | 16                  | 60                   |
| G9B84920      | R2.5                       | 8.0                   | 8                      | 16                  | 60                   |
| G9B84100      | R0.5                       | 10.0                  | 10                     | 20                  | 75                   |
| G9B84921      | R1.0                       | 10.0                  | 10                     | 20                  | 75                   |
| G9B84922      | R1.5                       | 10.0                  | 10                     | 20                  | 75                   |
| G9B84923      | R2.0                       | 10.0                  | 10                     | 20                  | 75                   |
| G9B84924      | R2.5                       | 10.0                  | 10                     | 20                  | 75                   |
| G9B84120      | R0.5                       | 12.0                  | 12                     | 24                  | 75                   |
| G9B84925      | R1.0                       | 12.0                  | 12                     | 24                  | 75                   |
| G9B84926      | R1.5                       | 12.0                  | 12                     | 24                  | 75                   |
| G9B84927      | R2.0                       | 12.0                  | 12                     | 24                  | 75                   |
| G9B84928      | R2.5                       | 12.0                  | 12                     | 24                  | 75                   |

| 刃部公差<br>Mill Dia.<br>Tolerance(mm) | 柄部公差<br>Shank Dia.<br>Tolerance |
|------------------------------------|---------------------------------|
| 0~-0.03                            | h6                              |

◎ : 优(Excellent) ○ : 良(Good)

| 碳钢<br>Carbon Steels | 合金钢<br>Alloy Steels | 预硬钢<br>Prehardened Steels | 硬化钢<br>Hardened Steels | 高硬钢<br>High Hardened Steels | 铜<br>Copper | 石墨<br>Graphite | 铸铁<br>Cast Iron | 铝<br>Aluminum | 不锈钢<br>Stainless Steels | 钛<br>Titanium | 镍铬铁合金<br>Inconel |
|---------------------|---------------------|---------------------------|------------------------|-----------------------------|-------------|----------------|-----------------|---------------|-------------------------|---------------|------------------|
| ~HB225              | HB225~325           | HRc30~40                  | HRc40~45 HRc45~55      | HRc55~70                    |             |                |                 |               |                         |               |                  |
| ◎                   | ◎                   | ◎                         | ○                      |                             |             |                | ○               | ○             | ○                       |               |                  |

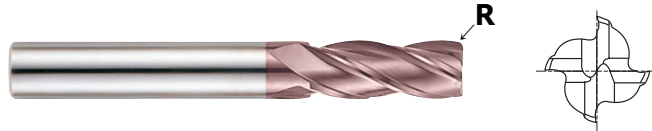
**824** • phone:+82-32-526-0909, fax:+82-32-526-4373, www.yg1.kr, E-mail:yg1@yg1.kr

**YG-1 CO., LTD.**

**硬质合金, 4刃 长刃 圆鼻铣刀****CARBIDE, 4 FLUTE LONG REACH CORNER RADIUS**

- ▶ 适于高温干切削
- ▶ 卓越的高性能铣刀
- ▶ 设计用于加工圆底沟槽带和特殊轮廓

- ▶ Suitable for dry milling applications at high temperatures.
- ▶ Excellent high-performance end mills.
- ▶ Designed for milling of radius bottom slots, fillets and special contours.



P.865

Unit : mm

| 型号<br>EDP No. | 圆弧半径<br>Corner Radius<br>R | 刃部直径<br>Mill Diameter | 柄部直径<br>Shank Diameter | 刃长<br>Length of Cut | 全长<br>Overall Length |
|---------------|----------------------------|-----------------------|------------------------|---------------------|----------------------|
| G9B85030      | R0.5                       | 3.0                   | 4                      | 6                   | 75                   |
| G9B85901      | R1.0                       | 3.0                   | 4                      | 6                   | 75                   |
| G9B85040      | R0.5                       | 4.0                   | 4                      | 8                   | 75                   |
| G9B85902      | R1.0                       | 4.0                   | 4                      | 8                   | 75                   |
| G9B85050      | R0.5                       | 5.0                   | 6                      | 10                  | 75                   |
| G9B85903      | R1.0                       | 5.0                   | 6                      | 10                  | 75                   |
| G9B85060      | R0.5                       | 6.0                   | 6                      | 12                  | 75                   |
| G9B85904      | R1.0                       | 6.0                   | 6                      | 12                  | 75                   |
| G9B85080      | R0.5                       | 8.0                   | 8                      | 16                  | 100                  |
| G9B85905      | R1.0                       | 8.0                   | 8                      | 16                  | 100                  |
| G9B85906      | R1.5                       | 8.0                   | 8                      | 16                  | 100                  |
| G9B85907      | R2.0                       | 8.0                   | 8                      | 16                  | 100                  |
| G9B85908      | R2.5                       | 8.0                   | 8                      | 16                  | 100                  |
| G9B85100      | R0.5                       | 10.0                  | 10                     | 20                  | 100                  |
| G9B85909      | R1.0                       | 10.0                  | 10                     | 20                  | 100                  |
| G9B85910      | R1.5                       | 10.0                  | 10                     | 20                  | 100                  |
| G9B85911      | R2.0                       | 10.0                  | 10                     | 20                  | 100                  |
| G9B85912      | R2.5                       | 10.0                  | 10                     | 20                  | 100                  |
| G9B85120      | R0.5                       | 12.0                  | 12                     | 24                  | 100                  |
| G9B85913      | R1.0                       | 12.0                  | 12                     | 24                  | 100                  |
| G9B85914      | R1.5                       | 12.0                  | 12                     | 24                  | 100                  |
| G9B85915      | R2.0                       | 12.0                  | 12                     | 24                  | 100                  |
| G9B85916      | R2.5                       | 12.0                  | 12                     | 24                  | 100                  |

| 刃部公差<br>Mill Dia.<br>Tolerance(mm) | 柄部公差<br>Shank Dia.<br>Tolerance |
|------------------------------------|---------------------------------|
| 0~-0.03                            | h6                              |

| 碳钢            | 合金钢          | 预硬钢                | 硬化钢               | 高硬钢                  | 铜      | 石墨       | 铸铁        | 铝        | 不锈钢              | 钛        | 镍钴铁合金   |
|---------------|--------------|--------------------|-------------------|----------------------|--------|----------|-----------|----------|------------------|----------|---------|
| Carbon Steels | Alloy Steels | Prehardened Steels | Hardened Steels   | High Hardened Steels | Copper | Graphite | Cast Iron | Aluminum | Stainless Steels | Titanium | Inconel |
| ~HB225        | HB225~325    | HRC30~40           | HRC40~45 HRC45~55 | HRC55~70             |        |          |           |          |                  |          |         |
| ◎             | ◎            | ◎                  | ○                 |                      |        |          | ○         | ○        | ○                |          |         |

◎ : 优(Excellent) ○ : 良(Good)

CARBIDE

HSS



# K-2 CARBIDE END MILLS

G9A23 SERIES

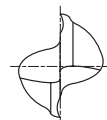
PLAIN SHANK

## 硬质合金, 2刃 普通刃

## CARBIDE, 2 FLUTE REGULAR LENGTH

- ▶ 适于高温干切削
- ▶ 卓越的高性能铣刀
- ▶ 2刃为槽铣设计

- ▶ Suitable for dry milling applications at high temperatures.
- ▶ Excellent high-performance end mills.
- ▶ 2 flute design for slotting.

MG  
HM

2

30°

PLAIN



P.866

单位(Unit) : mm

| 型号<br>EDP No. | 刃部直径<br>Mill Diameter | 柄部直径<br>Shank Diameter | 刃长<br>Length of Cut | 全长<br>Overall Length |
|---------------|-----------------------|------------------------|---------------------|----------------------|
| G9A23010      | 1.0                   | 4                      | 3                   | 50                   |
| G9A23015      | 1.5                   | 4                      | 4                   | 50                   |
| G9A23020      | 2.0                   | 4                      | 6                   | 50                   |
| G9A23025      | 2.5                   | 4                      | 8                   | 50                   |
| G9A23030      | 3.0                   | 4                      | 9                   | 50                   |
| G9A23040      | 4.0                   | 4                      | 11                  | 50                   |
| G9A23050      | 5.0                   | 6                      | 13                  | 50                   |
| G9A23060      | 6.0                   | 6                      | 16                  | 50                   |
| G9A23070      | 7.0                   | 8                      | 16                  | 60                   |
| G9A23080      | 8.0                   | 8                      | 19                  | 60                   |
| G9A23090      | 9.0                   | 10                     | 19                  | 60                   |
| G9A23905      | 9.0                   | 10                     | 25                  | 75                   |
| G9A23100      | 10.0                  | 10                     | 25                  | 75                   |
| G9A23120      | 12.0                  | 12                     | 30                  | 75                   |
| G9A23140      | 14.0                  | 14                     | 32                  | 75                   |
| G9A23906      | 14.0                  | 16                     | 45                  | 100                  |
| G9A23160      | 16.0                  | 16                     | 32                  | 100                  |
| G9A23907      | 16.0                  | 16                     | 45                  | 100                  |
| G9A23180      | 18.0                  | 18                     | 32                  | 100                  |
| G9A23908      | 18.0                  | 20                     | 45                  | 100                  |
| G9A23200      | 20.0                  | 20                     | 38                  | 100                  |
| G9A23909      | 20.0                  | 20                     | 45                  | 100                  |

| 刃部公差<br>Mill Dia.<br>Tolerance(mm) | 柄部公差<br>Shank Dia.<br>Tolerance |
|------------------------------------|---------------------------------|
| 0~-0.03                            | h6                              |

◎ : 优(Excellent) ○ : 良(Good)

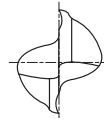
| 碳钢<br>Carbon Steels | 合金钢<br>Alloy Steels | 预硬钢<br>Prehardened Steels | 硬化钢<br>Hardened Steels | 高硬钢<br>High Hardened Steels | 铜<br>Copper | 石墨<br>Graphite | 铸铁<br>Cast Iron | 铝<br>Aluminum | 不锈钢<br>Stainless Steels | 钛<br>Titanium | 镍钛合金<br>Inconel |
|---------------------|---------------------|---------------------------|------------------------|------------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

# 硬质合金, 2刃 长型

## CARBIDE, 2 FLUTE LONG LENGTH

- ▶ 适于高温干切削
- ▶ 卓越的高性能铣刀
- ▶ 2刃为槽铣设计

- ▶ Suitable for dry milling applications at high temperatures.
- ▶ Excellent high-performance end mills.
- ▶ 2 flute design for slotting.



P.866

单位(Unit) : mm

| 型号<br>EDP No. | 刃部直径<br>Mill Diameter | 柄部直径<br>Shank Diameter | 刃长<br>Length of Cut | 全长<br>Overall Length |
|---------------|-----------------------|------------------------|---------------------|----------------------|
| G9B50010      | 1.0                   | 4                      | 5                   | 75                   |
| G9B50901      | 1.0                   | 6                      | 5                   | 75                   |
| G9B50015      | 1.5                   | 4                      | 6                   | 75                   |
| G9B50902      | 1.5                   | 6                      | 6                   | 75                   |
| G9B50020      | 2.0                   | 4                      | 9                   | 75                   |
| G9B50903      | 2.0                   | 6                      | 9                   | 75                   |
| G9B50025      | 2.5                   | 4                      | 12                  | 75                   |
| G9B50904      | 2.5                   | 6                      | 12                  | 75                   |
| G9B50030      | 3.0                   | 4                      | 12                  | 75                   |
| G9B50905      | 3.0                   | 6                      | 12                  | 75                   |
| G9B50040      | 4.0                   | 4                      | 16                  | 75                   |
| G9B50906      | 4.0                   | 6                      | 16                  | 75                   |
| G9B50050      | 5.0                   | 6                      | 20                  | 75                   |
| G9B50060      | 6.0                   | 6                      | 20                  | 75                   |
| G9B50080      | 8.0                   | 8                      | 20                  | 100                  |
| G9B50100      | 10.0                  | 10                     | 25                  | 100                  |
| G9B50120      | 12.0                  | 12                     | 30                  | 100                  |
| G9B50140      | 14.0                  | 16                     | 75                  | 150                  |
| G9B50160      | 16.0                  | 16                     | 75                  | 150                  |
| G9B50200      | 20.0                  | 20                     | 75                  | 150                  |

| 刃部公差<br>Mill Dia.<br>Tolerance(mm) | 柄部公差<br>Shank Dia.<br>Tolerance |
|------------------------------------|---------------------------------|
| 0~-0.03                            | h6                              |

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

◎ : 优(Excellent) ○ : 良(Good)

CARBIDE

HSS

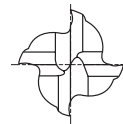

**K-2 CARBIDE  
END MILLS**
**G9A24 SERIES**

PLAIN SHANK

**硬质合金, 4刃 普通刃**
**CARBIDE, 4 FLUTE REGULAR LENGTH**

- ▶ 适于高温干切削
- ▶ 卓越的高性能铣刀
- ▶ 4刃可得到好的表面质量

- ▶ Suitable for dry milling applications at high temperatures.
- ▶ Excellent high-performance end mills.
- ▶ 4 flute allows for better work piece finishes.


**MG  
HM**
**4**
**30°**
**PLAIN**


P.867

单位(Unit) : mm

| 型号<br>EDP No. | 刃部直径<br>Mill Diameter | 柄部直径<br>Shank Diameter | 刃长<br>Length of Cut | 全长<br>Overall Length |
|---------------|-----------------------|------------------------|---------------------|----------------------|
| G9A24010      | 1.0                   | 4                      | 3                   | 50                   |
| G9A24015      | 1.5                   | 4                      | 4                   | 50                   |
| G9A24020      | 2.0                   | 4                      | 6                   | 50                   |
| G9A24025      | 2.5                   | 4                      | 8                   | 50                   |
| G9A24030      | 3.0                   | 4                      | 9                   | 50                   |
| G9A24040      | 4.0                   | 4                      | 11                  | 50                   |
| G9A24050      | 5.0                   | 6                      | 13                  | 50                   |
| G9A24060      | 6.0                   | 6                      | 16                  | 50                   |
| G9A24070      | 7.0                   | 8                      | 16                  | 60                   |
| G9A24080      | 8.0                   | 8                      | 19                  | 60                   |
| G9A24090      | 9.0                   | 10                     | 19                  | 60                   |
| G9A24905      | 9.0                   | 10                     | 25                  | 75                   |
| G9A24100      | 10.0                  | 10                     | 25                  | 75                   |
| G9A24120      | 12.0                  | 12                     | 30                  | 75                   |
| G9A24140      | 14.0                  | 14                     | 32                  | 75                   |
| G9A24906      | 14.0                  | 16                     | 45                  | 100                  |
| G9A24160      | 16.0                  | 16                     | 32                  | 100                  |
| G9A24907      | 16.0                  | 16                     | 45                  | 100                  |
| G9A24908      | 18.0                  | 20                     | 45                  | 100                  |
| G9A24200      | 20.0                  | 20                     | 38                  | 100                  |
| G9A24909      | 20.0                  | 20                     | 45                  | 100                  |

| 刃部公差<br>Mill Dia.<br>Tolerance(mm) | 柄部公差<br>Shank Dia.<br>Tolerance |
|------------------------------------|---------------------------------|
| 0~-0.03                            | h6                              |

◎ : 优(Excellent) ○ : 良(Good)

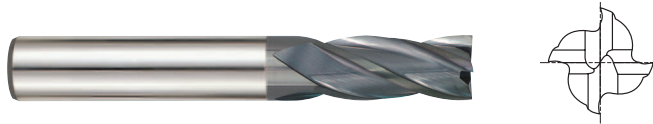
| 碳钢<br>Carbon Steels | 合金钢<br>Alloy Steels | 预硬钢<br>Prehardened Steels | 硬化钢<br>Hardened Steels | 高硬钢<br>High Hardened Steels | 铜<br>Copper | 石墨<br>Graphite | 铸铁<br>Cast Iron | 铝<br>Aluminum | 不锈钢<br>Stainless Steels | 钛<br>Titanium | 镍铬铁合金<br>Inconel |
|---------------------|---------------------|---------------------------|------------------------|-----------------------------|-------------|----------------|-----------------|---------------|-------------------------|---------------|------------------|
| ~HB225              | HB225~325           | HRc30~40                  | HRc40~45 HRc45~55      | HRc55~70                    |             |                |                 |               |                         |               |                  |
| ◎                   | ◎                   | ◎                         | ○                      |                             |             |                | ○               | ○             | ○                       |               |                  |

# 硬质合金, 4刃 长型

## CARBIDE, 4 FLUTE LONG LENGTH

- ▶ 适于高温干切削
- ▶ 卓越的高性能铣刀
- ▶ 4刃可得到好的表面质量

- ▶ Suitable for dry milling applications at high temperatures.
- ▶ Excellent high-performance end mills.
- ▶ 4 flute allows for better work piece finishes.



单位(Unit) : mm

| 型号<br>EDP No. | 刃部直径<br>Mill Diameter | 柄部直径<br>Shank Diameter | 刃长<br>Length of Cut | 全长<br>Overall Length |
|---------------|-----------------------|------------------------|---------------------|----------------------|
| G9B51010      | 1.0                   | 4                      | 5                   | 75                   |
| G9B51901      | 1.0                   | 6                      | 5                   | 75                   |
| G9B51015      | 1.5                   | 4                      | 6                   | 75                   |
| G9B51902      | 1.5                   | 6                      | 6                   | 75                   |
| G9B51020      | 2.0                   | 4                      | 9                   | 75                   |
| G9B51903      | 2.0                   | 6                      | 9                   | 75                   |
| G9B51025      | 2.5                   | 4                      | 12                  | 75                   |
| G9B51904      | 2.5                   | 6                      | 12                  | 75                   |
| G9B51030      | 3.0                   | 4                      | 12                  | 75                   |
| G9B51905      | 3.0                   | 6                      | 12                  | 75                   |
| G9B51040      | 4.0                   | 4                      | 16                  | 75                   |
| G9B51906      | 4.0                   | 6                      | 16                  | 75                   |
| G9B51050      | 5.0                   | 6                      | 20                  | 75                   |
| G9B51060      | 6.0                   | 6                      | 20                  | 75                   |
| G9B51080      | 8.0                   | 8                      | 20                  | 100                  |
| G9B51100      | 10.0                  | 10                     | 25                  | 100                  |
| G9B51120      | 12.0                  | 12                     | 30                  | 100                  |
| G9B51140      | 14.0                  | 16                     | 75                  | 150                  |
| G9B51160      | 16.0                  | 16                     | 75                  | 150                  |
| G9B51200      | 20.0                  | 20                     | 75                  | 150                  |

| 刃部公差<br>Mill Dia.<br>Tolerance(mm) | 柄部公差<br>Shank Dia.<br>Tolerance |
|------------------------------------|---------------------------------|
| 0~-0.03                            | h6                              |

| 碳钢            | 合金钢          | 预硬钢                | 硬化钢               | 高硬钢                  | 铜      | 石墨       | 铸铁        | 铝        | 不锈钢              | 钛        | 镍钛合金    |
|---------------|--------------|--------------------|-------------------|----------------------|--------|----------|-----------|----------|------------------|----------|---------|
| Carbon Steels | Alloy Steels | Prehardened Steels | Hardened Steels   | High Hardened Steels | Copper | Graphite | Cast Iron | Aluminum | Stainless Steels | Titanium | Inconel |
| ~HB225        | HB225~325    | HRC30~40           | HRc40~45 HRc45~55 | HRc55~70             |        |          |           |          |                  |          |         |
| ◎             | ◎            | ◎                  | ○                 |                      |        |          | ○         | ○        | ○                |          |         |

◎ : 优(Excellent) ○ : 良(Good)

CARBIDE

HSS


**K-2 CARBIDE  
END MILLS**
**G9A25 SERIES**

PLAIN SHANK

**硬质合金, 2刃 普通刃 球头**
**CARBIDE, 2 FLUTE REGULAR LENGTH BALL NOSE**

- ▶ 适于高温干切削
- ▶ 卓越的高性能铣刀
- ▶ 设计用于加工圆底沟槽带和特殊轮廓

- ▶ Suitable for dry milling applications at high temperatures.
- ▶ Excellent high-performance end mills.
- ▶ Designed for milling of radius bottom slots, fillets and special contours.


**MG  
HM**
**2**
**30°**
**R  
±0.02**
**PLAIN**

P.868

单位(Unit) : mm

| 型号<br>EDP No. | 球头半径<br>Radius of<br>Ball Nose<br>R (±0.02) | 刃部直径<br>Mill<br>Diameter | 柄部直径<br>Shank<br>Diameter | 刃长<br>Length<br>of Cut | 全长<br>Overall<br>Length |
|---------------|---------------------------------------------|--------------------------|---------------------------|------------------------|-------------------------|
| G9A25010      | R0.5                                        | 1.0                      | 4                         | 2                      | 50                      |
| G9A25015      | R0.75                                       | 1.5                      | 4                         | 3                      | 50                      |
| G9A25020      | R1.0                                        | 2.0                      | 4                         | 4                      | 50                      |
| G9A25025      | R1.25                                       | 2.5                      | 4                         | 6                      | 50                      |
| G9A25030      | R1.5                                        | 3.0                      | 4                         | 6                      | 50                      |
| G9A25040      | R2.0                                        | 4.0                      | 4                         | 8                      | 50                      |
| G9A25050      | R2.5                                        | 5.0                      | 6                         | 10                     | 50                      |
| G9A25060      | R3.0                                        | 6.0                      | 6                         | 12                     | 50                      |
| G9A25080      | R4.0                                        | 8.0                      | 8                         | 14                     | 60                      |
| G9A25100      | R5.0                                        | 10.0                     | 10                        | 18                     | 75                      |
| G9A25120      | R6.0                                        | 12.0                     | 12                        | 22                     | 75                      |
| G9A25910      | R6.0                                        | 12.0                     | 12                        | 25                     | 75                      |
| G9A25140      | R7.0                                        | 14.0                     | 14                        | 32                     | 75                      |
| G9A25911      | R7.0                                        | 14.0                     | 16                        | 25                     | 100                     |
| G9A25160      | R8.0                                        | 16.0                     | 16                        | 32                     | 100                     |
| G9A25912      | R8.0                                        | 16.0                     | 16                        | 30                     | 100                     |
| G9A25200      | R10.0                                       | 20.0                     | 20                        | 38                     | 100                     |
| G9A25913      | R10.0                                       | 20.0                     | 20                        | 30                     | 100                     |

| 刃部公差<br>Mill Dia.<br>Tolerance(mm) | 柄部公差<br>Shank Dia.<br>Tolerance |
|------------------------------------|---------------------------------|
| 0~-0.03                            | h6                              |

◎ : 优(Excellent) ○ : 良(Good)

| 碳钢<br>Carbon<br>Steels | 合金钢<br>Alloy<br>Steels | 预硬钢<br>Prehardened<br>Steels | 硬化钢<br>Hardened Steels | 高硬钢<br>High Hardened<br>Steels | 铜<br>Copper | 石墨<br>Graphite | 铸铁<br>Cast Iron | 铝<br>Aluminum | 不锈钢<br>Stainless<br>Steels | 钛<br>Titanium | 镍铬铁合金<br>Inconel |
|------------------------|------------------------|------------------------------|------------------------|--------------------------------|-------------|----------------|-----------------|---------------|----------------------------|---------------|------------------|
| ~HB225                 | HB225~325              | HRc30~40                     | HRc40~45 HRc45~55      | HRc55~70                       |             |                |                 |               |                            |               |                  |
| ◎                      | ◎                      | ◎                            | ○                      |                                |             |                | ○               | ○             | ○                          |               |                  |

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CUTTERSTECHNICAL  
DATA

**硬质合金, 2刃 长型 球头**  
**CARBIDE, 2 FLUTE LONG LENGTH BALL NOSE**

- ▶ 适于高温干切削
- ▶ 卓越的高性能铣刀
- ▶ 设计用于加工圆底沟槽带和特殊轮廓

- ▶ Suitable for dry milling applications at high temperatures.
- ▶ Excellent high-performance end mills.
- ▶ Designed for milling of radius bottom slots, fillets and special contours.



单位(Unit) : mm

| 型号<br>EDP No. | 球头半径<br>Radius of Ball Nose<br>R (±0.02) | 刃部直径<br>Mill Diameter | 柄部直径<br>Shank Diameter | 刃长<br>Length of Cut | 全长<br>Overall Length |
|---------------|------------------------------------------|-----------------------|------------------------|---------------------|----------------------|
| G9B52010      | R0.5                                     | 1.0                   | 4                      | 2                   | 75                   |
| G9B52901      | R0.5                                     | 1.0                   | 6                      | 2                   | 75                   |
| G9B52015      | R0.75                                    | 1.5                   | 4                      | 3                   | 75                   |
| G9B52902      | R0.75                                    | 1.5                   | 6                      | 3                   | 75                   |
| G9B52020      | R1.0                                     | 2.0                   | 4                      | 4                   | 75                   |
| G9B52903      | R1.0                                     | 2.0                   | 6                      | 4                   | 75                   |
| G9B52030      | R1.5                                     | 3.0                   | 4                      | 8                   | 75                   |
| G9B52904      | R1.5                                     | 3.0                   | 6                      | 8                   | 75                   |
| G9B52040      | R2.0                                     | 4.0                   | 4                      | 11                  | 75                   |
| G9B52905      | R2.0                                     | 4.0                   | 6                      | 11                  | 75                   |
| G9B52050      | R2.5                                     | 5.0                   | 6                      | 13                  | 75                   |
| G9B52060      | R3.0                                     | 6.0                   | 6                      | 13                  | 75                   |
| G9B52080      | R4.0                                     | 8.0                   | 8                      | 16                  | 100                  |
| G9B52100      | R5.0                                     | 10.0                  | 10                     | 16                  | 100                  |
| G9B52120      | R6.0                                     | 12.0                  | 12                     | 25                  | 100                  |
| G9B52160      | R8.0                                     | 16.0                  | 16                     | 30                  | 150                  |
| G9B52200      | R10.0                                    | 20.0                  | 20                     | 30                  | 150                  |

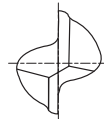
| 刃部公差<br>Mill Dia.<br>Tolerance(mm) | 柄部公差<br>Shank Dia.<br>Tolerance |
|------------------------------------|---------------------------------|
| 0~-0.03                            | h6                              |

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


**硬质合金, 2刃 35度螺旋角 短刃**
**CARBIDE, 2 FLUTE 35° HELIX SHORT LENGTH**

- ▶ 设计用于加工碳钢, 工具钢, 合金钢, 不锈钢等多种用途的钢
- ▶ 高耐磨性
- ▶ 适应于高速加工, 湿式和干式切削条件

- ▶ Designed for general purposes to carbon steels, tool steels, alloy steels and stainless steels.
- ▶ Suitable for high speed machining in wet or dry condition.
- ▶ Application in high speed machining, wet and dry cutting conditions.


**MG  
HM**
**2**
**35°**
**PLAIN**


P.869

单位(Unit) : mm

| 型号<br>EDP No. | 刃部直径<br>Mill Diameter | 柄部直径<br>Shank Diameter | 刃长<br>Length of Cut | 全长<br>Overall Length |
|---------------|-----------------------|------------------------|---------------------|----------------------|
| EMC52010      | 1.0                   | 4                      | 3                   | 50                   |
| EMC52015      | 1.5                   | 4                      | 4                   | 50                   |
| EMC52020      | 2.0                   | 4                      | 6                   | 50                   |
| EMC52025      | 2.5                   | 4                      | 8                   | 50                   |
| EMC52030      | 3.0                   | 4                      | 8                   | 50                   |
| EMC52035      | 3.5                   | 4                      | 10                  | 50                   |
| EMC52040      | 4.0                   | 4                      | 11                  | 50                   |
| EMC52901      | 3.0                   | 6                      | 8                   | 50                   |
| EMC52902      | 3.5                   | 6                      | 10                  | 50                   |
| EMC52903      | 4.0                   | 6                      | 11                  | 50                   |
| EMC52045      | 4.5                   | 6                      | 11                  | 50                   |
| EMC52050      | 5.0                   | 6                      | 13                  | 50                   |
| EMC52055      | 5.5                   | 6                      | 13                  | 50                   |
| EMC52060      | 6.0                   | 6                      | 16                  | 50                   |
| EMC52065      | 6.5                   | 8                      | 16                  | 60                   |
| EMC52070      | 7.0                   | 8                      | 20                  | 60                   |
| EMC52075      | 7.5                   | 8                      | 20                  | 60                   |
| EMC52080      | 8.0                   | 8                      | 20                  | 60                   |
| EMC52085      | 8.5                   | 10                     | 20                  | 75                   |
| EMC52090      | 9.0                   | 10                     | 20                  | 75                   |
| EMC52095      | 9.5                   | 10                     | 22                  | 75                   |
| EMC52100      | 10.0                  | 10                     | 25                  | 75                   |
| EMC52110      | 11.0                  | 12                     | 30                  | 75                   |
| EMC52120      | 12.0                  | 12                     | 32                  | 75                   |
| EMC52140      | 14.0                  | 16                     | 40                  | 100                  |
| EMC52160      | 16.0                  | 16                     | 40                  | 100                  |
| EMC52180      | 18.0                  | 20                     | 40                  | 100                  |
| EMC52200      | 20.0                  | 20                     | 45                  | 100                  |

| 刃部公差<br>Mill Dia.<br>Tolerance(mm) | 柄部公差<br>Shank Dia.<br>Tolerance |
|------------------------------------|---------------------------------|
| 0~-0.03                            | h6                              |

◎ : 优(Excellent)    ○ : 良(Good)

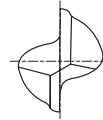
| 碳钢<br>Carbon Steels | 合金钢<br>Alloy Steels | 预硬钢<br>Prehardened Steels | 硬化钢<br>Hardened Steels | 高硬钢<br>High Hardened Steels | 铜<br>Copper | 石墨<br>Graphite | 铸铁<br>Cast Iron | 铝<br>Aluminum | 不锈钢<br>Stainless Steels | 钛<br>Titanium | 镍铁合金<br>Inconel |
|---------------------|---------------------|---------------------------|------------------------|-----------------------------|-------------|----------------|-----------------|---------------|-------------------------|---------------|-----------------|
| ~HB225              | HB225~325           | HRc30~40                  | HRc40~45    HRc45~55   | HRc55~70                    |             |                |                 |               |                         |               |                 |
| ◎                   | ◎                   | ◎                         | ○                      |                             |             |                | ○               |               | ○                       |               |                 |

# 硬质合金, 2刃 35度螺旋角 长型

## CARBIDE, 2 FLUTE 35° HELIX LONG LENGTH

- ▶ 设计用于加工碳钢, 工具钢, 合金钢, 不锈钢等多种用途的钢
- ▶ 高耐磨性
- ▶ 适应于高速加工, 湿式和干式切削条件

- ▶ Designed for general purposes to carbon steels, tool steels, alloy steels and stainless steels.
- ▶ Suitable for high speed machining in wet or dry condition.
- ▶ Application in high speed machining, wet and dry cutting conditions.



P.869

单位(Unit) : mm

| 型号<br>EDP No. | 刃部直径<br>Mill Diameter | 柄部直径<br>Shank Diameter | 刃长<br>Length of Cut | 全长<br>Overall Length |
|---------------|-----------------------|------------------------|---------------------|----------------------|
| EMC53020      | 2.0                   | 4                      | 10                  | 50                   |
| EMC53030      | 3.0                   | 4                      | 15                  | 60                   |
| EMC53901      | 3.0                   | 6                      | 15                  | 60                   |
| EMC53040      | 4.0                   | 4                      | 20                  | 60                   |
| EMC53902      | 4.0                   | 6                      | 20                  | 60                   |
| EMC53050      | 5.0                   | 6                      | 25                  | 75                   |
| EMC53060      | 6.0                   | 6                      | 30                  | 75                   |
| EMC53080      | 8.0                   | 8                      | 35                  | 100                  |
| EMC53100      | 10.0                  | 10                     | 45                  | 100                  |
| EMC53120      | 12.0                  | 12                     | 45                  | 100                  |
| EMC53140      | 14.0                  | 14                     | 70                  | 150                  |
| EMC53903      | 14.0                  | 16                     | 70                  | 150                  |
| EMC53160      | 16.0                  | 16                     | 70                  | 150                  |
| EMC53180      | 18.0                  | 20                     | 75                  | 150                  |
| EMC53200      | 20.0                  | 20                     | 75                  | 150                  |

| 刃部公差<br>Mill Dia.<br>Tolerance(mm) | 柄部公差<br>Shank Dia.<br>Tolerance |
|------------------------------------|---------------------------------|
| 0~-0.03                            | h6                              |

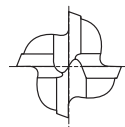
| 碳钢            | 合金钢          | 预硬钢                | 硬化钢               | 高硬钢                  | 铜      | 石墨       | 铸铁        | 铝        | 不锈钢              | 钛        | 镍钛合金    |
|---------------|--------------|--------------------|-------------------|----------------------|--------|----------|-----------|----------|------------------|----------|---------|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

◎ : 优(Excellent) ○ : 良(Good)


**硬质合金, 4刃 35度螺旋角 短刃**
**CARBIDE, 4 FLUTE 35° HELIX SHORT LENGTH**

- ▶ 设计用于加工碳钢, 工具钢, 合金钢, 不锈钢等多种用途的钢
- ▶ 高耐磨性
- ▶ 4刃可得到较好的表面粗糙度
- ▶ 适应于高速加工, 湿式和干式切削条件

- ▶ Designed for general purposes to carbon steels, tool steels, alloy steels and stainless steels.
- ▶ Suitable for high speed machining in wet or dry condition.
- ▶ 4 flute allows for better work piece finishes.
- ▶ Application in high speed machining, wet and dry cutting conditions.



P.869

单位(Unit) : mm

| 型号<br>EDP No. | 刃部直径<br>Mill Diameter | 柄部直径<br>Shank Diameter | 刃长<br>Length of Cut | 全长<br>Overall Length |
|---------------|-----------------------|------------------------|---------------------|----------------------|
| EMC54010      | 1.0                   | 4                      | 3                   | 50                   |
| EMC54015      | 1.5                   | 4                      | 4                   | 50                   |
| EMC54020      | 2.0                   | 4                      | 6                   | 50                   |
| EMC54025      | 2.5                   | 4                      | 8                   | 50                   |
| EMC54030      | 3.0                   | 4                      | 8                   | 50                   |
| EMC54035      | 3.5                   | 4                      | 10                  | 50                   |
| EMC54040      | 4.0                   | 4                      | 11                  | 50                   |
| EMC54901      | 3.0                   | 6                      | 8                   | 50                   |
| EMC54902      | 3.5                   | 6                      | 10                  | 50                   |
| EMC54903      | 4.0                   | 6                      | 11                  | 50                   |
| EMC54045      | 4.5                   | 6                      | 11                  | 50                   |
| EMC54050      | 5.0                   | 6                      | 13                  | 50                   |
| EMC54055      | 5.5                   | 6                      | 13                  | 50                   |
| EMC54060      | 6.0                   | 6                      | 16                  | 50                   |
| EMC54065      | 6.5                   | 8                      | 16                  | 60                   |
| EMC54070      | 7.0                   | 8                      | 20                  | 60                   |
| EMC54075      | 7.5                   | 8                      | 20                  | 60                   |
| EMC54080      | 8.0                   | 8                      | 20                  | 60                   |
| EMC54085      | 8.5                   | 10                     | 20                  | 75                   |
| EMC54090      | 9.0                   | 10                     | 20                  | 75                   |
| EMC54095      | 9.5                   | 10                     | 22                  | 75                   |
| EMC54100      | 10.0                  | 10                     | 25                  | 75                   |
| EMC54110      | 11.0                  | 12                     | 30                  | 75                   |
| EMC54120      | 12.0                  | 12                     | 32                  | 75                   |
| EMC54140      | 14.0                  | 16                     | 40                  | 100                  |
| EMC54160      | 16.0                  | 16                     | 40                  | 100                  |
| EMC54180      | 18.0                  | 20                     | 40                  | 100                  |
| EMC54200      | 20.0                  | 20                     | 45                  | 100                  |

| 刃部公差<br>Mill Dia.<br>Tolerance(mm) | 柄部公差<br>Shank Dia.<br>Tolerance |
|------------------------------------|---------------------------------|
| 0~-0.03                            | h6                              |

◎ : 优(Excellent) ○ : 良(Good)

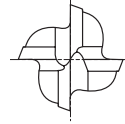
| 碳钢<br>Carbon Steels | 合金钢<br>Alloy Steels | 预硬钢<br>Prehardened Steels | 硬化钢<br>Hardened Steels | 高硬钢<br>High Hardened Steels | 铜<br>Copper | 石墨<br>Graphite | 铸铁<br>Cast Iron | 铝<br>Aluminum | 不锈钢<br>Stainless Steels | 钛<br>Titanium | 镍钛合金<br>Inconel |
|---------------------|---------------------|---------------------------|------------------------|------------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

# 硬质合金, 4刃 35度螺旋角 长型

## CARBIDE, 4 FLUTE 35° HELIX LONG LENGTH

- ▶ 设计用于加工碳钢, 工具钢, 合金钢, 不锈钢等多种用途的钢
- ▶ 高耐磨性
- ▶ 4刃可得到较好的表面粗糙度
- ▶ 适应于高速加工, 湿式和干式切削条件

- ▶ Designed for general purposes to carbon steels, tool steels, alloy steels and stainless steels.
- ▶ Suitable for high speed machining in wet or dry condition.
- ▶ 4 flute allows for better work piece finishes.
- ▶ Application in high speed machining, wet and dry cutting conditions.



P.869

单位(Unit) : mm

| 型号<br>EDP No. | 刃部直径<br>Mill Diameter | 柄部直径<br>Shank Diameter | 刃长<br>Length of Cut | 全长<br>Overall Length |
|---------------|-----------------------|------------------------|---------------------|----------------------|
| EMC55020      | 2.0                   | 4                      | 10                  | 50                   |
| EMC55030      | 3.0                   | 4                      | 15                  | 60                   |
| EMC55901      | 3.0                   | 6                      | 15                  | 60                   |
| EMC55040      | 4.0                   | 4                      | 20                  | 60                   |
| EMC55902      | 4.0                   | 6                      | 20                  | 60                   |
| EMC55050      | 5.0                   | 6                      | 25                  | 75                   |
| EMC55060      | 6.0                   | 6                      | 30                  | 75                   |
| EMC55080      | 8.0                   | 8                      | 35                  | 100                  |
| EMC55100      | 10.0                  | 10                     | 45                  | 100                  |
| EMC55120      | 12.0                  | 12                     | 45                  | 100                  |
| EMC55140      | 14.0                  | 14                     | 70                  | 150                  |
| EMC55903      | 14.0                  | 16                     | 70                  | 150                  |
| EMC55160      | 16.0                  | 16                     | 70                  | 150                  |
| EMC55180      | 18.0                  | 20                     | 75                  | 150                  |
| EMC55200      | 20.0                  | 20                     | 75                  | 150                  |

| 刃部公差<br>Mill Dia.<br>Tolerance(mm) | 柄部公差<br>Shank Dia.<br>Tolerance |
|------------------------------------|---------------------------------|
| 0~-0.03                            | h6                              |

| 碳钢<br>Carbon Steels | 合金钢<br>Alloy Steels | 预硬钢<br>Prehardened Steels | 硬化钢<br>Hardened Steels | 高硬钢<br>High Hardened Steels | 铜<br>Copper | 石墨<br>Graphite | 铸铁<br>Cast Iron | 铝<br>Aluminum | 不锈钢<br>Stainless Steels | 钛<br>Titanium | 镍钛合金<br>Inconel |
|---------------------|---------------------|---------------------------|------------------------|-----------------------------|-------------|----------------|-----------------|---------------|-------------------------|---------------|-----------------|
| ~HB225              | HB225~325           | HRC30~40                  | HRC40~45 HRC45~55      | HRC55~70                    |             |                |                 |               |                         |               |                 |
| ◎                   | ◎                   | ◎                         | ○                      |                             |             |                | ○               |               | ○                       |               |                 |

◎ : 优(Excellent) ○ : 良(Good)


**硬质合金, 2刃 短刃 球头**
**CARBIDE, 2 FLUTE SHORT LENGTH BALL NOSE**

- ▶ 设计用于加工碳钢, 工具钢, 合金钢, 不锈钢等多种用途的钢
- ▶ 高耐磨性
- ▶ 设计用于铣削圆形底部的槽, 带和特殊轮廓
- ▶ 适应于高速加工, 湿式和干式切削条件

- ▶ Designed for general purposes to carbon steels, tool steels, alloy steels and stainless steels.
- ▶ Suitable for high speed machining in wet or dry condition.
- ▶ Designed for milling of radius bottom slots, fillets and special contours.
- ▶ Application in high speed machining, wet and dry cutting conditions.


**MG  
HM**
**2**
**30°**
**R  
±0.01**
**R  
±0.02**
**PLAIN**
**P.868**
**R0.1-R3 R3.5-R10**
**单位(Unit) : mm**

| 型号<br>EDP No. | 球头半径<br>Radius of<br>Ball Nose<br>R | 刃部直径<br>Mill<br>Diameter | 柄部直径<br>Shank<br>Diameter | 刃长<br>Length<br>of Cut | 全长<br>Overall<br>Length |
|---------------|-------------------------------------|--------------------------|---------------------------|------------------------|-------------------------|
| EMC56002      | R 0.1                               | 0.2                      | 4                         | 0.4                    | 50                      |
| EMC56003      | R 0.15                              | 0.3                      | 4                         | 0.6                    | 50                      |
| EMC56004      | R 0.2                               | 0.4                      | 4                         | 0.8                    | 50                      |
| EMC56005      | R 0.25                              | 0.5                      | 4                         | 1                      | 50                      |
| EMC56006      | R 0.3                               | 0.6                      | 4                         | 1.2                    | 50                      |
| EMC56008      | R 0.4                               | 0.8                      | 4                         | 1.6                    | 50                      |
| EMC56010      | R 0.5                               | 1.0                      | 4                         | 2                      | 50                      |
| EMC56015      | R 0.75                              | 1.5                      | 4                         | 4                      | 50                      |
| EMC56020      | R 1.0                               | 2.0                      | 4                         | 5                      | 50                      |
| EMC56025      | R 1.25                              | 2.5                      | 4                         | 6                      | 50                      |
| EMC56030      | R 1.5                               | 3.0                      | 4                         | 6                      | 50                      |
| EMC56040      | R 2.0                               | 4.0                      | 4                         | 8                      | 50                      |
| EMC56901      | R 1.5                               | 3.0                      | 6                         | 6                      | 50                      |
| EMC56902      | R 2.0                               | 4.0                      | 6                         | 8                      | 50                      |
| EMC56050      | R 2.5                               | 5.0                      | 6                         | 10                     | 50                      |
| EMC56060      | R 3.0                               | 6.0                      | 6                         | 12                     | 50                      |
| EMC56070      | R 3.5                               | 7.0                      | 8                         | 14                     | 60                      |
| EMC56080      | R 4.0                               | 8.0                      | 8                         | 14                     | 60                      |
| EMC56090      | R 4.5                               | 9.0                      | 10                        | 18                     | 75                      |
| EMC56100      | R 5.0                               | 10.0                     | 10                        | 20                     | 75                      |
| EMC56120      | R 6.0                               | 12.0                     | 12                        | 24                     | 75                      |
| EMC56160      | R 8.0                               | 16.0                     | 16                        | 32                     | 100                     |
| EMC56200      | R 10.0                              | 20.0                     | 20                        | 40                     | 100                     |

| 刃部公差<br>Mill Dia.<br>Tolerance(mm) | 柄部公差<br>Shank Dia.<br>Tolerance |
|------------------------------------|---------------------------------|
| 0~-0.03                            | h6                              |

◎ : 优(Excellent) ○ : 良(Good)

| 碳钢<br>Carbon Steels | 合金钢<br>Alloy Steels | 预硬钢<br>Prehardened Steels | 硬化钢<br>Hardened Steels | 高硬钢<br>High Hardened Steels | 铜<br>Copper | 石墨<br>Graphite | 铸铁<br>Cast Iron | 铝<br>Aluminum | 不锈钢<br>Stainless Steels | 钛<br>Titanium | 镍铬铁合金<br>Inconel |
|---------------------|---------------------|---------------------------|------------------------|-----------------------------|-------------|----------------|-----------------|---------------|-------------------------|---------------|------------------|
| ~HB225              | HB225~325           | HRC30~40                  | HRc40~45 HRc45~55      | HRc55~70                    |             |                |                 |               |                         |               |                  |
| ◎                   | ◎                   | ◎                         | ○                      |                             |             |                | ○               |               | ○                       |               |                  |

# 硬质合金, 4(6)刃 45度螺旋角 短刃

## CARBIDE, 4(6) FLUTE 45° HELIX SHORT LENGTH

- ▶ 高速切削和高进给量的精切削
- ▶ 卓越的工件表面粗糙度
- ▶ 适应于高速加工, 湿式和干式切削条件

- ▶ High speed cutting and finish milling with high feed rate.
- ▶ Excellent surface finishes.
- ▶ Application in high speed machining, wet and dry cutting condition.



单位(Unit) : mm

| 型号<br>EDP No. | 刃部直径<br>Mill Diameter | 柄部直径<br>Shank Diameter | 刃长<br>Length of Cut | 全长<br>Overall Length | 刃数<br>No. of Flute |
|---------------|-----------------------|------------------------|---------------------|----------------------|--------------------|
| EMC57010      | 1.0                   | 4                      | 3                   | 45                   | 4                  |
| EMC57015      | 1.5                   | 4                      | 4                   | 45                   | 4                  |
| EMC57020      | 2.0                   | 4                      | 6                   | 45                   | 4                  |
| EMC57025      | 2.5                   | 4                      | 8                   | 45                   | 4                  |
| EMC57030      | 3.0                   | 4                      | 8                   | 50                   | 4                  |
| EMC57040      | 4.0                   | 4                      | 11                  | 50                   | 4                  |
| EMC57050      | 5.0                   | 6                      | 13                  | 50                   | 6                  |
| EMC57060      | 6.0                   | 6                      | 16                  | 50                   | 6                  |
| EMC57080      | 8.0                   | 8                      | 19                  | 60                   | 6                  |
| EMC57100      | 10.0                  | 10                     | 22                  | 75                   | 6                  |
| EMC57120      | 12.0                  | 12                     | 26                  | 75                   | 6                  |
| EMC57140      | 14.0                  | 14                     | 30                  | 90                   | 6                  |
| EMC57160      | 16.0                  | 16                     | 32                  | 100                  | 6                  |
| EMC57180      | 18.0                  | 18                     | 38                  | 100                  | 6                  |
| EMC57200      | 20.0                  | 20                     | 38                  | 100                  | 6                  |

| 刃部公差<br>Mill Dia.<br>Tolerance(mm) | 柄部公差<br>Shank Dia.<br>Tolerance |
|------------------------------------|---------------------------------|
| 0~-0.03                            | h6                              |

| 碳钢<br>Carbon Steels | 合金钢<br>Alloy Steels | 预硬钢<br>Prehardened Steels | 硬化钢<br>Hardened Steels | 高硬钢<br>High Hardened Steels | 铜<br>Copper | 石墨<br>Graphite | 铸铁<br>Cast Iron | 铝<br>Aluminum | 不锈钢<br>Stainless Steels | 钛<br>Titanium | 镍钛合金<br>Inconel |
|---------------------|---------------------|---------------------------|------------------------|-----------------------------|-------------|----------------|-----------------|---------------|-------------------------|---------------|-----------------|
| ~HB225              | HB225~325           | HRC30~40                  | HRc40~45 HRc45~55      | HRC55~70                    |             |                |                 |               |                         |               |                 |
|                     | ○                   | ◎                         | ◎                      | ○                           |             |                | ○               |               |                         |               |                 |

◎ : 优(Excellent) ○ : 良(Good)

CARBIDE

HSS


**K-2 CARBIDE  
END MILLS**
**EMC58 SERIES**

PLAIN SHANK

**硬质合金, 6刃 45度螺旋角 长型**
**CARBIDE, 6 FLUTE 45° HELIX LONG LENGTH**

- ▶ 高速切削和高进给量的精切削
- ▶ 卓越的工作表面粗糙度
- ▶ 适应于高速加工, 湿式和干式切削条件

- ▶ High speed cutting and finish milling with high feed rate.
- ▶ Excellent surface finishes.
- ▶ Application in high speed machining, wet and dry cutting conditions.


**MG  
HM**
**6**
**45°**
**PLAIN**


P.868

单位(Unit) : mm

| 型号<br>EDP No. | 刃部直径<br>Mill Diameter | 柄部直径<br>Shank Diameter | 刃长<br>Length of Cut | 全长<br>Overall Length |
|---------------|-----------------------|------------------------|---------------------|----------------------|
| EMC58060      | 6.0                   | 6                      | 25                  | 80                   |
| EMC58080      | 8.0                   | 8                      | 35                  | 90                   |
| EMC58100      | 10.0                  | 10                     | 45                  | 100                  |
| EMC58120      | 12.0                  | 12                     | 50                  | 100                  |
| EMC58160      | 16.0                  | 16                     | 65                  | 150                  |
| EMC58200      | 20.0                  | 20                     | 70                  | 150                  |

▶ Ø 4mm以下产品时, 为4FL.

| 刃部公差<br>Mill Dia.<br>Tolerance(mm) | 柄部公差<br>Shank Dia.<br>Tolerance |
|------------------------------------|---------------------------------|
| 0~-0.03                            | h6                              |

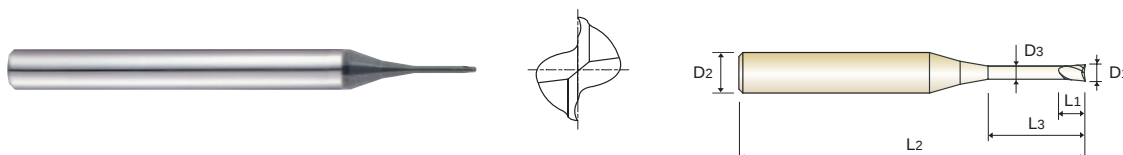
◎ : 优(Excellent) ○ : 良(Good)

| 碳钢<br>Carbon Steels | 合金钢<br>Alloy Steels | 预硬钢<br>Prehardened Steels | 硬化钢<br>Hardened Steels | 高硬钢<br>High Hardened Steels | 铜<br>Copper | 石墨<br>Graphite | 铸铁<br>Cast Iron | 铝<br>Aluminum | 不锈钢<br>Stainless Steels | 钛<br>Titanium | 镍铬铁合金<br>Inconel |
|---------------------|---------------------|---------------------------|------------------------|-----------------------------|-------------|----------------|-----------------|---------------|-------------------------|---------------|------------------|
| ~HB225              | HB225~325           | HRc30~40                  | HRc40~45 HRc45~55      | HRc55~70                    |             |                |                 |               |                         |               |                  |
|                     | ○                   | ◎                         | ◎                      | ○                           |             |                | ○               |               |                         |               |                  |

# 硬质合金, 2刃 颈部加长型 CARBIDE, 2 FLUTE LONG NECK

- ▶ 设计用于加工碳钢, 工具钢, 合金钢, 不锈钢等多种用途的钢
- ▶ 由于颈部稍细能够加工深槽。
- ▶ 高耐磨性。

- ▶ Designed for general purposes to carbon steels, tool steels, alloy steels and stainless steels.
- ▶ Deep slotting is possible by reduced neck.
- ▶ Suitable for high speed machining in wet or dry condition.



P.870

单位(Unit) : mm

| 型号<br>EDP No. | 刃部直径<br>Mill Diameter<br>D1 | 柄部直径<br>Shank Diameter<br>D2 | 刃长<br>Length of Cut<br>L1 | 颈长<br>Length Below Shank<br>L3 | 全长<br>Overall Length<br>L2 | 颈径<br>Neck Diameter<br>D3 |
|---------------|-----------------------------|------------------------------|---------------------------|--------------------------------|----------------------------|---------------------------|
| EMC59004010   | 0.4                         | 4                            | 0.6                       | 1                              | 1                          | 0.37                      |
| EMC59004020   | 0.4                         | 4                            | 0.6                       | 2                              | 2                          | 0.37                      |
| EMC59004030   | 0.4                         | 4                            | 0.6                       | 3                              | 3                          | 0.37                      |
| EMC59004040   | 0.4                         | 4                            | 0.6                       | 4                              | 4                          | 0.37                      |
| EMC59004050   | 0.4                         | 4                            | 0.6                       | 5                              | 5                          | 0.37                      |
| EMC59005020   | 0.5                         | 4                            | 0.7                       | 2                              | 2                          | 0.45                      |
| EMC59005030   | 0.5                         | 4                            | 0.7                       | 3                              | 3                          | 0.45                      |
| EMC59005040   | 0.5                         | 4                            | 0.7                       | 4                              | 4                          | 0.45                      |
| EMC59005060   | 0.5                         | 4                            | 0.7                       | 6                              | 6                          | 0.45                      |
| EMC59005080   | 0.5                         | 4                            | 0.7                       | 8                              | 8                          | 0.45                      |
| EMC59006020   | 0.6                         | 4                            | 0.9                       | 2                              | 2                          | 0.55                      |
| EMC59006030   | 0.6                         | 4                            | 0.9                       | 3                              | 3                          | 0.55                      |
| EMC59006040   | 0.6                         | 4                            | 0.9                       | 4                              | 4                          | 0.55                      |
| EMC59006060   | 0.6                         | 4                            | 0.9                       | 6                              | 6                          | 0.55                      |
| EMC59006080   | 0.6                         | 4                            | 0.9                       | 8                              | 8                          | 0.55                      |
| EMC59006100   | 0.6                         | 4                            | 0.9                       | 10                             | 10                         | 0.55                      |
| EMC59007020   | 0.7                         | 4                            | 1                         | 2                              | 2                          | 0.65                      |
| EMC59007040   | 0.7                         | 4                            | 1                         | 4                              | 4                          | 0.65                      |
| EMC59007060   | 0.7                         | 4                            | 1                         | 6                              | 6                          | 0.65                      |
| EMC59007080   | 0.7                         | 4                            | 1                         | 8                              | 8                          | 0.65                      |
| EMC59007100   | 0.7                         | 4                            | 1                         | 10                             | 10                         | 0.65                      |
| EMC59008020   | 0.8                         | 4                            | 1.2                       | 2                              | 2                          | 0.75                      |
| EMC59008040   | 0.8                         | 4                            | 1.2                       | 4                              | 4                          | 0.75                      |
| EMC59008060   | 0.8                         | 4                            | 1.2                       | 6                              | 6                          | 0.75                      |
| EMC59008080   | 0.8                         | 4                            | 1.2                       | 8                              | 8                          | 0.75                      |
| EMC59008100   | 0.8                         | 4                            | 1.2                       | 10                             | 10                         | 0.75                      |
| EMC59008120   | 0.8                         | 4                            | 1.2                       | 12                             | 12                         | 0.75                      |
| EMC59009060   | 0.9                         | 4                            | 1.4                       | 6                              | 6                          | 0.85                      |

◎ : 优(Excellent)    ○ : 良(Good)

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

CARBIDE

HSS

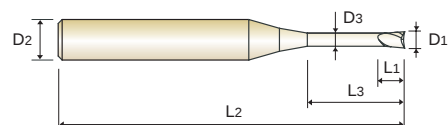
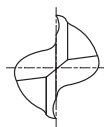

**K-2 CARBIDE  
END MILLS**
**EMC59 SERIES**

PLAIN SHANK

## 硬质合金, 2刃 颈部加长型 CARBIDE, 2 FLUTE LONG NECK

- ▶ 设计用于加工碳钢, 工具钢, 合金钢, 不锈钢等多种用途的钢
- ▶ 由于颈部稍细能够加工深槽。
- ▶ 高耐磨性。

- ▶ Designed for general purposes to carbon steels, tool steels, alloy steels and stainless steels.
- ▶ Deep slotting is possible by reduced neck.
- ▶ Suitable for high speed machining in wet or dry condition.


**MG  
HM**
**2**
**30°**
**PLAIN**


P.870

单位(Unit) : mm

| 型号<br>EDP No. | 刃部直径<br>Mill Diameter<br>D1 | 柄部直径<br>Shank Diameter<br>D2 | 刃长<br>Length of Cut<br>L1 | 颈长<br>Length Below Shank<br>L3 | 全长<br>Overall Length<br>L2 | 颈径<br>Neck Diameter<br>D3 |
|---------------|-----------------------------|------------------------------|---------------------------|--------------------------------|----------------------------|---------------------------|
| EMC59009080   | 0.9                         | 4                            | 1.4                       | 8                              | 8                          | 0.85                      |
| EMC59009100   | 0.9                         | 4                            | 1.4                       | 10                             | 10                         | 0.85                      |
| EMC59009150   | 0.9                         | 4                            | 1.4                       | 15                             | 15                         | 0.85                      |
| EMC59010040   | 1.0                         | 4                            | 1.5                       | 4                              | 4                          | 0.95                      |
| EMC59010050   | 1.0                         | 4                            | 1.5                       | 5                              | 5                          | 0.95                      |
| EMC59010060   | 1.0                         | 4                            | 1.5                       | 6                              | 6                          | 0.95                      |
| EMC59010080   | 1.0                         | 4                            | 1.5                       | 8                              | 8                          | 0.95                      |
| EMC59010100   | 1.0                         | 4                            | 1.5                       | 10                             | 10                         | 0.95                      |
| EMC59010120   | 1.0                         | 4                            | 1.5                       | 12                             | 12                         | 0.95                      |
| EMC59010140   | 1.0                         | 4                            | 1.5                       | 14                             | 14                         | 0.95                      |
| EMC59010160   | 1.0                         | 4                            | 1.5                       | 16                             | 16                         | 0.95                      |
| EMC59010200   | 1.0                         | 4                            | 1.5                       | 20                             | 20                         | 0.95                      |
| EMC59012040   | 1.2                         | 4                            | 1.8                       | 4                              | 4                          | 1.15                      |
| EMC59012060   | 1.2                         | 4                            | 1.8                       | 6                              | 6                          | 1.15                      |
| EMC59012080   | 1.2                         | 4                            | 1.8                       | 8                              | 8                          | 1.15                      |
| EMC59012100   | 1.2                         | 4                            | 1.8                       | 10                             | 10                         | 1.15                      |
| EMC59012120   | 1.2                         | 4                            | 1.8                       | 12                             | 12                         | 1.15                      |
| EMC59012160   | 1.2                         | 4                            | 1.8                       | 16                             | 16                         | 1.15                      |
| EMC59014060   | 1.4                         | 4                            | 2.1                       | 6                              | 6                          | 1.35                      |
| EMC59014080   | 1.4                         | 4                            | 2.1                       | 8                              | 8                          | 1.35                      |
| EMC59014100   | 1.4                         | 4                            | 2.1                       | 10                             | 10                         | 1.35                      |
| EMC59014120   | 1.4                         | 4                            | 2.1                       | 12                             | 12                         | 1.35                      |
| EMC59014140   | 1.4                         | 4                            | 2.1                       | 14                             | 14                         | 1.35                      |
| EMC59014160   | 1.4                         | 4                            | 2.1                       | 16                             | 16                         | 1.35                      |
| EMC59014220   | 1.4                         | 4                            | 2.1                       | 22                             | 22                         | 1.35                      |
| EMC59015060   | 1.5                         | 4                            | 2.3                       | 6                              | 6                          | 1.45                      |
| EMC59015080   | 1.5                         | 4                            | 2.3                       | 8                              | 8                          | 1.45                      |
| EMC59015100   | 1.5                         | 4                            | 2.3                       | 10                             | 10                         | 1.45                      |

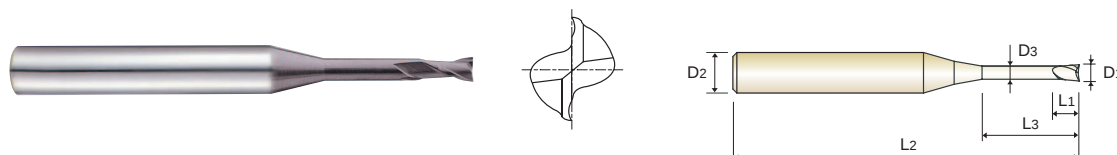
◎ : 优(Excellent) ○ : 良(Good)

| 碳钢<br>Carbon Steels | 合金钢<br>Alloy Steels | 预硬钢<br>Prehardened Steels | 硬化钢<br>Hardened Steels |          | 高硬钢<br>High Hardened Steels | 铜<br>Copper | 石墨<br>Graphite | 铸铁<br>Cast Iron | 铝<br>Aluminum | 不锈钢<br>Stainless Steels | 钛<br>Titanium | 镍铬铁合金<br>Inconel |
|---------------------|---------------------|---------------------------|------------------------|----------|-----------------------------|-------------|----------------|-----------------|---------------|-------------------------|---------------|------------------|
| ~HB225              | HB225~325           | HRc30~40                  | HRc40~45               | HRc45~55 | HRc55~70                    |             |                |                 |               |                         |               |                  |
| ◎                   | ◎                   | ◎                         | ○                      |          |                             |             |                | ○               |               |                         |               |                  |

# 硬质合金, 2刃 颈部加长型 CARBIDE, 2 FLUTE LONG NECK

- ▶ 设计用于加工碳钢, 工具钢, 合金钢, 不锈钢等多种用途的钢
- ▶ 由于颈部稍细能够加工深槽。
- ▶ 高耐磨性。

- ▶ Designed for general purposes to carbon steels, tool steels, alloy steels and stainless steels.
- ▶ Deep slotting is possible by reduced neck.
- ▶ Suitable for high speed machining in wet or dry condition.



单位(Unit) : mm

| 型号<br>EDP No. | 刃部直径<br>Mill Diameter<br>D1 | 柄部直径<br>Shank Diameter<br>D2 | 刃长<br>Length of Cut<br>L1 | 颈长<br>Length Below Shank<br>L3 | 全长<br>Overall Length<br>L2 | 颈径<br>Neck Diameter<br>D3 |
|---------------|-----------------------------|------------------------------|---------------------------|--------------------------------|----------------------------|---------------------------|
| EMC59015120   | 1.5                         | 4                            | 2.3                       | 12                             | 12                         | 1.45                      |
| EMC59015140   | 1.5                         | 4                            | 2.3                       | 14                             | 14                         | 1.45                      |
| EMC59015160   | 1.5                         | 4                            | 2.3                       | 16                             | 16                         | 1.45                      |
| EMC59015180   | 1.5                         | 4                            | 2.3                       | 18                             | 18                         | 1.45                      |
| EMC59015200   | 1.5                         | 4                            | 2.3                       | 20                             | 20                         | 1.45                      |
| EMC59016060   | 1.6                         | 4                            | 2.4                       | 6                              | 6                          | 1.55                      |
| EMC59016080   | 1.6                         | 4                            | 2.4                       | 8                              | 8                          | 1.55                      |
| EMC59016100   | 1.6                         | 4                            | 2.4                       | 10                             | 10                         | 1.55                      |
| EMC59016120   | 1.6                         | 4                            | 2.4                       | 12                             | 12                         | 1.55                      |
| EMC59016140   | 1.6                         | 4                            | 2.4                       | 14                             | 14                         | 1.55                      |
| EMC59016160   | 1.6                         | 4                            | 2.4                       | 16                             | 16                         | 1.55                      |
| EMC59016180   | 1.6                         | 4                            | 2.4                       | 18                             | 18                         | 1.55                      |
| EMC59016200   | 1.6                         | 4                            | 2.4                       | 20                             | 20                         | 1.55                      |
| EMC59016260   | 1.6                         | 4                            | 2.4                       | 26                             | 26                         | 1.55                      |
| EMC59018060   | 1.8                         | 4                            | 2.7                       | 6                              | 6                          | 1.75                      |
| EMC59018080   | 1.8                         | 4                            | 2.7                       | 8                              | 8                          | 1.75                      |
| EMC59018100   | 1.8                         | 4                            | 2.7                       | 10                             | 10                         | 1.75                      |
| EMC59018120   | 1.8                         | 4                            | 2.7                       | 12                             | 12                         | 1.75                      |
| EMC59018140   | 1.8                         | 4                            | 2.7                       | 14                             | 14                         | 1.75                      |
| EMC59018160   | 1.8                         | 4                            | 2.7                       | 16                             | 16                         | 1.75                      |
| EMC59018180   | 1.8                         | 4                            | 2.7                       | 18                             | 18                         | 1.75                      |
| EMC59018200   | 1.8                         | 4                            | 2.7                       | 20                             | 20                         | 1.75                      |
| EMC59018260   | 1.8                         | 4                            | 2.7                       | 26                             | 26                         | 1.75                      |
| EMC59020060   | 2.0                         | 4                            | 3                         | 6                              | 6                          | 1.95                      |
| EMC59020080   | 2.0                         | 4                            | 3                         | 8                              | 8                          | 1.95                      |
| EMC59020100   | 2.0                         | 4                            | 3                         | 10                             | 10                         | 1.95                      |
| EMC59020120   | 2.0                         | 4                            | 3                         | 12                             | 12                         | 1.95                      |
| EMC59020140   | 2.0                         | 4                            | 3                         | 14                             | 14                         | 1.95                      |

◎ : 优(Excellent)    ○ : 良(Good)

| 碳钢            | 合金钢          | 预硬钢                | 硬化钢                  | 高硬钢                  | 铜      | 石墨       | 铸铁        | 铝        | 不锈钢              | 钛        | 镍钴铁合金   |
|---------------|--------------|--------------------|----------------------|----------------------|--------|----------|-----------|----------|------------------|----------|---------|
| Carbon Steels | Alloy Steels | Prehardened Steels | Hardened Steels      | High Hardened Steels | Copper | Graphite | Cast Iron | Aluminum | Stainless Steels | Titanium | Inconel |
| ~HB225        | HB225~325    | HRC30~40           | HRC40~45    HRC45~55 | HRC55~70             |        |          |           |          |                  |          |         |
| ◎             | ◎            | ◎                  | ○                    |                      |        |          | ○         |          |                  |          |         |



# K-2 CARBIDE END MILLS

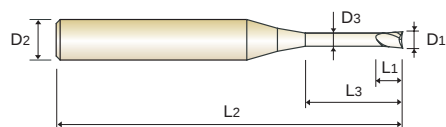
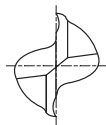
**EMC59** SERIES

PLAIN SHANK

## 硬质合金, 2刃 颈部加长型 CARBIDE, 2 FLUTE LONG NECK

- ▶ 设计用于加工碳钢, 工具钢, 合金钢, 不锈钢等多种用途的钢
- ▶ 由于颈部稍细能够加工深槽。
- ▶ 高耐磨性。

- ▶ Designed for general purposes to carbon steels, tool steels, alloy steels and stainless steels.
- ▶ Deep slotting is possible by reduced neck.
- ▶ Suitable for high speed machining in wet or dry condition.


**MG  
HM**
**2**
**30°**
**PLAIN**


P.870

单位(Unit) : mm

| 型号<br>EDP No. | 刃部直径<br>Mill Diameter<br>D1 | 柄部直径<br>Shank Diameter<br>D2 | 刃长<br>Length of Cut<br>L1 | 颈长<br>Length Below Shank<br>L3 | 全长<br>Overall Length<br>L2 | 颈径<br>Neck Diameter<br>D3 |
|---------------|-----------------------------|------------------------------|---------------------------|--------------------------------|----------------------------|---------------------------|
| EMC59020160   | 2.0                         | 4                            | 3                         | 16                             | 16                         | 1.95                      |
| EMC59020180   | 2.0                         | 4                            | 3                         | 18                             | 18                         | 1.95                      |
| EMC59020200   | 2.0                         | 4                            | 3                         | 20                             | 20                         | 1.95                      |
| EMC59020220   | 2.0                         | 4                            | 3                         | 22                             | 22                         | 1.95                      |
| EMC59020260   | 2.0                         | 4                            | 3                         | 26                             | 26                         | 1.95                      |
| EMC59020300   | 2.0                         | 4                            | 3                         | 30                             | 30                         | 1.95                      |
| EMC59025080   | 2.5                         | 4                            | 3.7                       | 8                              | 8                          | 2.4                       |
| EMC59025100   | 2.5                         | 4                            | 3.7                       | 10                             | 10                         | 2.4                       |
| EMC59025120   | 2.5                         | 4                            | 3.7                       | 12                             | 12                         | 2.4                       |
| EMC59025140   | 2.5                         | 4                            | 3.7                       | 14                             | 14                         | 2.4                       |
| EMC59025160   | 2.5                         | 4                            | 3.7                       | 16                             | 16                         | 2.4                       |
| EMC59025180   | 2.5                         | 4                            | 3.7                       | 18                             | 18                         | 2.4                       |
| EMC59025200   | 2.5                         | 4                            | 3.7                       | 20                             | 20                         | 2.4                       |
| EMC59025260   | 2.5                         | 4                            | 3.7                       | 26                             | 26                         | 2.4                       |
| EMC59025300   | 2.5                         | 4                            | 3.7                       | 30                             | 30                         | 2.4                       |
| EMC59030080   | 3.0                         | 6                            | 4.5                       | 8                              | 8                          | 2.85                      |
| EMC59030100   | 3.0                         | 6                            | 4.5                       | 10                             | 10                         | 2.85                      |
| EMC59030120   | 3.0                         | 6                            | 4.5                       | 12                             | 12                         | 2.85                      |
| EMC59030140   | 3.0                         | 6                            | 4.5                       | 14                             | 14                         | 2.85                      |
| EMC59030160   | 3.0                         | 6                            | 4.5                       | 16                             | 16                         | 2.85                      |
| EMC59030180   | 3.0                         | 6                            | 4.5                       | 18                             | 18                         | 2.85                      |
| EMC59030200   | 3.0                         | 6                            | 4.5                       | 20                             | 20                         | 2.85                      |
| EMC59030260   | 3.0                         | 6                            | 4.5                       | 26                             | 26                         | 2.85                      |
| EMC59030300   | 3.0                         | 6                            | 4.5                       | 30                             | 30                         | 2.85                      |
| EMC59030360   | 3.0                         | 6                            | 4.5                       | 36                             | 36                         | 2.85                      |
| EMC59030400   | 3.0                         | 6                            | 4.5                       | 40                             | 40                         | 2.85                      |
| EMC59040100   | 4.0                         | 6                            | 6                         | 10                             | 10                         | 3.85                      |
| EMC59040120   | 4.0                         | 6                            | 6                         | 12                             | 12                         | 3.85                      |

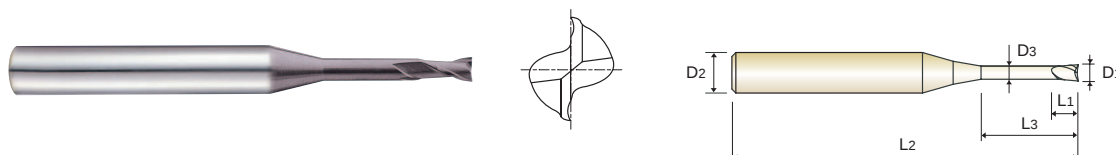
◎ : 优(Excellent) ○ : 良(Good)

| 碳钢<br>Carbon Steels | 合金钢<br>Alloy Steels | 预硬钢<br>Prehardened Steels | 硬化钢<br>Hardened Steels |          | 高硬钢<br>High Hardened Steels | 铜<br>Copper | 石墨<br>Graphite | 铸铁<br>Cast Iron | 铝<br>Aluminum | 不锈钢<br>Stainless Steels | 钛<br>Titanium | 镍铬铁合金<br>Inconel |
|---------------------|---------------------|---------------------------|------------------------|----------|-----------------------------|-------------|----------------|-----------------|---------------|-------------------------|---------------|------------------|
| ~HB225              | HB225~325           | HRc30~40                  | HRc40~45               | HRc45~55 | HRc55~70                    |             |                |                 |               |                         |               |                  |
| ◎                   | ◎                   | ◎                         | ○                      |          |                             |             |                | ○               |               |                         |               |                  |

# 硬质合金, 2刃 颈部长型 CARBIDE, 2 FLUTE LONG NECK

- ▶ 设计用于加工碳钢, 工具钢, 合金钢, 不锈钢等多种用途的钢
- ▶ 由于颈部稍细能够加工深槽。
- ▶ 高耐磨性。

- ▶ Designed for general purposes to carbon steels, tool steels, alloy steels and stainless steels.
- ▶ Deep slotting is possible by reduced neck.
- ▶ Suitable for high speed machining in wet or dry condition.



单位(Unit) : mm

| 型号<br>EDP No. | 刃部直径<br>Mill Diameter<br>D1 | 柄部直径<br>Shank Diameter<br>D2 | 刃长<br>Length of Cut<br>L1 | 颈长<br>Length Below Shank<br>L3 | 全长<br>Overall Length<br>L2 | 颈径<br>Neck Diameter<br>D3 |
|---------------|-----------------------------|------------------------------|---------------------------|--------------------------------|----------------------------|---------------------------|
| EMC59040160   | 4.0                         | 6                            | 6                         | 16                             | 16                         | 3.85                      |
| EMC59040200   | 4.0                         | 6                            | 6                         | 20                             | 20                         | 3.85                      |
| EMC59040260   | 4.0                         | 6                            | 6                         | 26                             | 26                         | 3.85                      |
| EMC59040300   | 4.0                         | 6                            | 6                         | 30                             | 30                         | 3.85                      |
| EMC59040360   | 4.0                         | 6                            | 6                         | 36                             | 36                         | 3.85                      |
| EMC59040400   | 4.0                         | 6                            | 6                         | 40                             | 40                         | 3.85                      |
| EMC59040460   | 4.0                         | 6                            | 6                         | 46                             | 46                         | 3.85                      |
| EMC59040500   | 4.0                         | 6                            | 6                         | 50                             | 50                         | 3.85                      |
| EMC59050160   | 5.0                         | 6                            | 7.5                       | 16                             | 16                         | 4.85                      |
| EMC59050200   | 5.0                         | 6                            | 7.5                       | 20                             | 20                         | 4.85                      |
| EMC59050260   | 5.0                         | 6                            | 7.5                       | 26                             | 26                         | 4.85                      |
| EMC59050300   | 5.0                         | 6                            | 7.5                       | 30                             | 30                         | 4.85                      |
| EMC59050360   | 5.0                         | 6                            | 7.5                       | 36                             | 36                         | 4.85                      |
| EMC59050400   | 5.0                         | 6                            | 7.5                       | 40                             | 40                         | 4.85                      |
| EMC59050500   | 5.0                         | 6                            | 7.5                       | 50                             | 50                         | 4.85                      |
| EMC59060200   | 6.0                         | 6                            | 9                         | 20                             | 20                         | 5.85                      |
| EMC59060300   | 6.0                         | 6                            | 9                         | 30                             | 30                         | 5.85                      |
| EMC59060400   | 6.0                         | 6                            | 9                         | 40                             | 40                         | 5.85                      |
| EMC59060500   | 6.0                         | 6                            | 9                         | 50                             | 50                         | 5.85                      |

| 尺寸<br>Size | 刃部公差<br>Mill Dia.<br>Tolerance (mm) | 柄部公差<br>Shank Dia.<br>Tolerance |
|------------|-------------------------------------|---------------------------------|
| up to Ø3   | 0~-0.015                            | h6                              |
| over Ø3    | 0~-0.020                            |                                 |

| 碳钢<br>Carbon Steels | 合金钢<br>Alloy Steels | 预硬钢<br>Prehardened Steels | 硬化钢<br>Hardened Steels | 高硬钢<br>High Hardened Steels | 铜<br>Copper | 石墨<br>Graphite | 铸铁<br>Cast Iron | 铝<br>Aluminum | 不锈钢<br>Stainless Steels | 钛<br>Titanium | 镍钴铁合金<br>Inconel |
|---------------------|---------------------|---------------------------|------------------------|-----------------------------|-------------|----------------|-----------------|---------------|-------------------------|---------------|------------------|
| ~HB225              | HB225~325           | HRC30~40                  | HRC40~45 HRC45~55      | HRC55~70                    |             |                |                 |               |                         |               |                  |
| ◎                   | ◎                   | ◎                         | ○                      |                             |             |                | ○               |               |                         |               |                  |

◎ : 优(Excellent) ○ : 良(Good)

CARBIDE

HSS

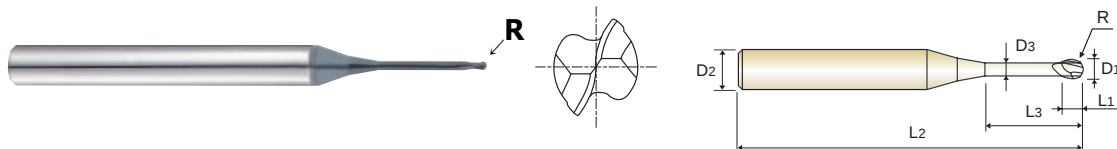

**K-2 CARBIDE  
END MILLS**
**EMC60 SERIES**

PLAIN SHANK

**硬质合金, 2刃 颈部加长型 球头**
**CARBIDE, 2 FLUTE LONG NECK BALL NOSE**

- ▶ 设计用于加工碳钢, 工具钢, 合金钢, 不锈钢等多种用途的钢
- ▶ 由于颈部稍细能够加工深槽。
- ▶ 高耐磨性。

- ▶ Designed for general purposes to carbon steels, tool steels, alloy steels and stainless steels.
- ▶ Deep slotting is possible by reduced neck.
- ▶ Suitable for high speed machining in wet or dry condition.


**MG  
HM**
**2**
**30°**
**R  
±0.01**
**PLAIN**

P.871

单位(Unit) : mm

| 型号<br>EDP No. | 球头半径<br>Radius of Ball Nose<br>R (±0.01) | 刃部直径<br>Mill Diameter<br>D1 | 柄部直径<br>Shank Diameter<br>D2 | 刃长<br>Length of Cut<br>L1 | 颈长<br>Length Below Shank<br>L3 | 全长<br>Overall Length<br>L2 | 颈径<br>Neck Diameter<br>D3 |
|---------------|------------------------------------------|-----------------------------|------------------------------|---------------------------|--------------------------------|----------------------------|---------------------------|
| EMC60004005   | RO.2                                     | 0.4                         | 4                            | 0.4                       | 0.5                            | 45                         | 0.37                      |
| EMC60004010   | RO.2                                     | 0.4                         | 4                            | 0.4                       | 1                              | 45                         | 0.37                      |
| EMC60004015   | RO.2                                     | 0.4                         | 4                            | 0.4                       | 1.5                            | 45                         | 0.37                      |
| EMC60004020   | RO.2                                     | 0.4                         | 4                            | 0.4                       | 2                              | 45                         | 0.37                      |
| EMC60004030   | RO.2                                     | 0.4                         | 4                            | 0.4                       | 3                              | 45                         | 0.37                      |
| EMC60004040   | RO.2                                     | 0.4                         | 4                            | 0.4                       | 4                              | 45                         | 0.37                      |
| EMC60004050   | RO.2                                     | 0.4                         | 4                            | 0.4                       | 5                              | 45                         | 0.37                      |
| EMC60005010   | RO.25                                    | 0.5                         | 4                            | 0.5                       | 1                              | 45                         | 0.45                      |
| EMC60005020   | RO.25                                    | 0.5                         | 4                            | 0.5                       | 2                              | 45                         | 0.45                      |
| EMC60005030   | RO.25                                    | 0.5                         | 4                            | 0.5                       | 3                              | 45                         | 0.45                      |
| EMC60005040   | RO.25                                    | 0.5                         | 4                            | 0.5                       | 4                              | 45                         | 0.45                      |
| EMC60005050   | RO.25                                    | 0.5                         | 4                            | 0.5                       | 5                              | 45                         | 0.45                      |
| EMC60005060   | RO.25                                    | 0.5                         | 4                            | 0.5                       | 6                              | 45                         | 0.45                      |
| EMC60005080   | RO.25                                    | 0.5                         | 4                            | 0.5                       | 8                              | 45                         | 0.45                      |
| EMC60006010   | RO.3                                     | 0.6                         | 4                            | 0.6                       | 1                              | 45                         | 0.55                      |
| EMC60006020   | RO.3                                     | 0.6                         | 4                            | 0.6                       | 2                              | 45                         | 0.55                      |
| EMC60006030   | RO.3                                     | 0.6                         | 4                            | 0.6                       | 3                              | 45                         | 0.55                      |
| EMC60006040   | RO.3                                     | 0.6                         | 4                            | 0.6                       | 4                              | 45                         | 0.55                      |
| EMC60006050   | RO.3                                     | 0.6                         | 4                            | 0.6                       | 5                              | 45                         | 0.55                      |
| EMC60006060   | RO.3                                     | 0.6                         | 4                            | 0.6                       | 6                              | 45                         | 0.55                      |
| EMC60006080   | RO.3                                     | 0.6                         | 4                            | 0.6                       | 8                              | 45                         | 0.55                      |
| EMC60006100   | RO.3                                     | 0.6                         | 4                            | 0.6                       | 10                             | 45                         | 0.55                      |
| EMC60008020   | RO.4                                     | 0.8                         | 4                            | 0.8                       | 2                              | 45                         | 0.75                      |
| EMC60008040   | RO.4                                     | 0.8                         | 4                            | 0.8                       | 4                              | 45                         | 0.75                      |
| EMC60008060   | RO.4                                     | 0.8                         | 4                            | 0.8                       | 6                              | 45                         | 0.75                      |
| EMC60008080   | RO.4                                     | 0.8                         | 4                            | 0.8                       | 8                              | 45                         | 0.75                      |
| EMC60008100   | RO.4                                     | 0.8                         | 4                            | 0.8                       | 10                             | 45                         | 0.75                      |
| EMC60010030   | RO.5                                     | 1.0                         | 4                            | 1                         | 3                              | 45                         | 0.95                      |
| EMC60010040   | RO.5                                     | 1.0                         | 4                            | 1                         | 4                              | 45                         | 0.95                      |

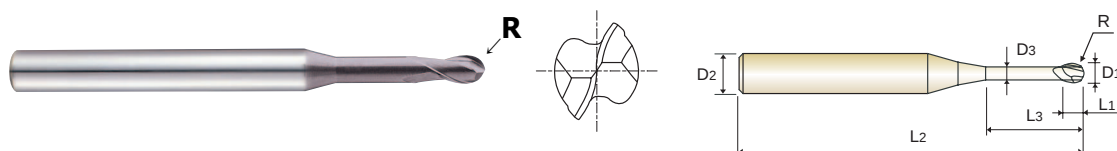
◎ : 优(Excellent) ○ : 良(Good)

| 碳钢            | 合金钢          | 预硬钢                | 硬化钢             |          | 高硬钢                  | 铜      | 石墨       | 铸铁        | 铝        | 不锈钢              | 钛        | 镍钛合金    |
|---------------|--------------|--------------------|-----------------|----------|----------------------|--------|----------|-----------|----------|------------------|----------|---------|
| Carbon Steels | Alloy Steels | Prehardened Steels | Hardened Steels |          | High Hardened Steels | Copper | Graphite | Cast Iron | Aluminum | Stainless Steels | Titanium | Inconel |
| ~HB225        | HB225~325    | HRC30~40           | HRc40~45        | HRc45~55 | HRc55~70             |        |          |           |          |                  |          |         |
| ◎             | ◎            | ◎                  | ○               |          |                      |        |          | ○         |          |                  |          |         |

# 硬质合金, 2刃 颈部加长型 球头 CARBIDE, 2 FLUTE LONG NECK BALL NOSE

- ▶ 设计用于加工碳钢, 工具钢, 合金钢, 不锈钢等多种用途的钢
- ▶ 由于颈部稍细能够加工深槽。
- ▶ 高耐磨性。

- ▶ Designed for general purposes to carbon steels, tool steels, alloy steels and stainless steels.
- ▶ Deep slotting is possible by reduced neck.
- ▶ Suitable for high speed machining in wet or dry condition.



P.871

单位(Unit) : mm

| 型号<br>EDP No. | 球头半径<br>Radius of Ball Nose<br>R (±0.01) | 刃部直径<br>Mill Diameter<br>D1 | 柄部直径<br>Shank Diameter<br>D2 | 刃长<br>Length of Cut<br>L1 | 颈长<br>Length Below Shank<br>L3 | 全长<br>Overall Length<br>L2 | 颈径<br>Neck Diameter<br>D3 |
|---------------|------------------------------------------|-----------------------------|------------------------------|---------------------------|--------------------------------|----------------------------|---------------------------|
| EMC60010050   | R0.5                                     | 1.0                         | 4                            | 1                         | 5                              | 45                         | 0.95                      |
| EMC60010060   | R0.5                                     | 1.0                         | 4                            | 1                         | 6                              | 45                         | 0.95                      |
| EMC60010070   | R0.5                                     | 1.0                         | 4                            | 1                         | 7                              | 45                         | 0.95                      |
| EMC60010080   | R0.5                                     | 1.0                         | 4                            | 1                         | 8                              | 45                         | 0.95                      |
| EMC60010100   | R0.5                                     | 1.0                         | 4                            | 1                         | 10                             | 45                         | 0.95                      |
| EMC60010120   | R0.5                                     | 1.0                         | 4                            | 1                         | 12                             | 45                         | 0.95                      |
| EMC60010140   | R0.5                                     | 1.0                         | 4                            | 1                         | 14                             | 50                         | 0.95                      |
| EMC60010160   | R0.5                                     | 1.0                         | 4                            | 1                         | 16                             | 50                         | 0.95                      |
| EMC60010200   | R0.5                                     | 1.0                         | 4                            | 1                         | 20                             | 55                         | 0.95                      |
| EMC60012040   | R0.6                                     | 1.2                         | 4                            | 1.2                       | 4                              | 45                         | 1.15                      |
| EMC60012060   | R0.6                                     | 1.2                         | 4                            | 1.2                       | 6                              | 45                         | 1.15                      |
| EMC60012080   | R0.6                                     | 1.2                         | 4                            | 1.2                       | 8                              | 45                         | 1.15                      |
| EMC60012100   | R0.6                                     | 1.2                         | 4                            | 1.2                       | 10                             | 45                         | 1.15                      |
| EMC60012120   | R0.6                                     | 1.2                         | 4                            | 1.2                       | 12                             | 45                         | 1.15                      |
| EMC60014080   | R0.7                                     | 1.4                         | 4                            | 1.4                       | 8                              | 45                         | 1.35                      |
| EMC60014120   | R0.7                                     | 1.4                         | 4                            | 1.4                       | 12                             | 45                         | 1.35                      |
| EMC60014160   | R0.7                                     | 1.4                         | 4                            | 1.4                       | 16                             | 50                         | 1.35                      |
| EMC60015040   | R0.75                                    | 1.5                         | 4                            | 1.5                       | 4                              | 45                         | 1.45                      |
| EMC60015060   | R0.75                                    | 1.5                         | 4                            | 1.5                       | 6                              | 45                         | 1.45                      |
| EMC60015080   | R0.75                                    | 1.5                         | 4                            | 1.5                       | 8                              | 45                         | 1.45                      |
| EMC60015100   | R0.75                                    | 1.5                         | 4                            | 1.5                       | 10                             | 45                         | 1.45                      |
| EMC60015120   | R0.75                                    | 1.5                         | 4                            | 1.5                       | 12                             | 45                         | 1.45                      |
| EMC60015140   | R0.75                                    | 1.5                         | 4                            | 1.5                       | 14                             | 50                         | 1.45                      |
| EMC60015160   | R0.75                                    | 1.5                         | 4                            | 1.5                       | 16                             | 50                         | 1.45                      |
| EMC60015200   | R0.75                                    | 1.5                         | 4                            | 1.5                       | 20                             | 55                         | 1.45                      |
| EMC60016080   | R0.8                                     | 1.6                         | 4                            | 1.6                       | 8                              | 45                         | 1.55                      |
| EMC60016120   | R0.8                                     | 1.6                         | 4                            | 1.6                       | 12                             | 45                         | 1.55                      |
| EMC60016160   | R0.8                                     | 1.6                         | 4                            | 1.6                       | 16                             | 50                         | 1.55                      |
| EMC60016200   | R0.8                                     | 1.6                         | 4                            | 1.6                       | 20                             | 55                         | 1.55                      |

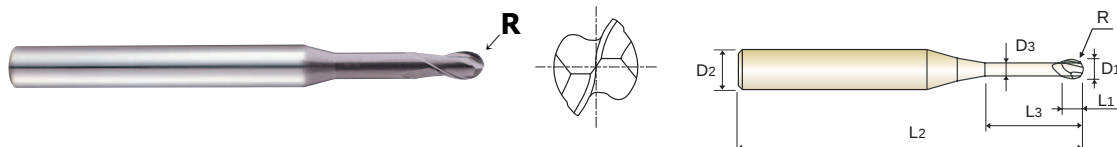
◎ : 优(Excellent) ○ : 良(Good)

| 碳钢            | 合金钢          | 预硬钢                | 硬化钢             |          | 高硬钢                  | 铜      | 石墨       | 铸铁        | 铝        | 不锈钢              | 钛        | 镍铬铁合金   |
|---------------|--------------|--------------------|-----------------|----------|----------------------|--------|----------|-----------|----------|------------------|----------|---------|
| Carbon Steels | Alloy Steels | Prehardened Steels | Hardened Steels |          | High Hardened Steels | Copper | Graphite | Cast Iron | Aluminum | Stainless Steels | Titanium | Inconel |
| ~HB225        | HB225~325    | HRC30~40           | HRC40~45        | HRC45~55 | HRC55~70             |        |          |           |          |                  |          |         |
| ◎             | ◎            | ◎                  | ○               |          |                      |        |          | ○         |          |                  |          |         |


**硬质合金, 2刃 颈部加长型 球头**
**CARBIDE, 2 FLUTE LONG NECK BALL NOSE**

- ▶ 设计用于加工碳钢, 工具钢, 合金钢, 不锈钢等多种用途的钢
- ▶ 由于颈部稍细能够加工深槽。
- ▶ 高耐磨性。

- ▶ Designed for general purposes to carbon steels, tool steels, alloy steels and stainless steels.
- ▶ Deep slotting is possible by reduced neck.
- ▶ Suitable for high speed machining in wet or dry condition.



P.871

单位(Unit) : mm

| 型号<br>EDP No. | 球头半径<br>Radius of Ball Nose<br>R (±0.01) | 刃部直径<br>Mill Diameter<br>D1 | 柄部直径<br>Shank Diameter<br>D2 | 刃长<br>Length of Cut<br>L1 | 颈长<br>Length Below Shank<br>L3 | 全长<br>Overall Length<br>L2 | 颈径<br>Neck Diameter<br>D3 |
|---------------|------------------------------------------|-----------------------------|------------------------------|---------------------------|--------------------------------|----------------------------|---------------------------|
| EMC60018080   | R0.9                                     | 1.8                         | 4                            | 1.8                       | 8                              | 45                         | 1.75                      |
| EMC60018120   | R0.9                                     | 1.8                         | 4                            | 1.8                       | 12                             | 45                         | 1.75                      |
| EMC60018160   | R0.9                                     | 1.8                         | 4                            | 1.8                       | 16                             | 50                         | 1.75                      |
| EMC60018200   | R0.9                                     | 1.8                         | 4                            | 1.8                       | 20                             | 55                         | 1.75                      |
| EMC60020040   | R1.0                                     | 2.0                         | 4                            | 2                         | 4                              | 45                         | 1.95                      |
| EMC60020060   | R1.0                                     | 2.0                         | 4                            | 2                         | 6                              | 45                         | 1.95                      |
| EMC60020080   | R1.0                                     | 2.0                         | 4                            | 2                         | 8                              | 45                         | 1.95                      |
| EMC60020100   | R1.0                                     | 2.0                         | 4                            | 2                         | 10                             | 45                         | 1.95                      |
| EMC60020120   | R1.0                                     | 2.0                         | 4                            | 2                         | 12                             | 50                         | 1.95                      |
| EMC60020140   | R1.0                                     | 2.0                         | 4                            | 2                         | 14                             | 50                         | 1.95                      |
| EMC60020160   | R1.0                                     | 2.0                         | 4                            | 2                         | 16                             | 50                         | 1.95                      |
| EMC60020180   | R1.0                                     | 2.0                         | 4                            | 2                         | 18                             | 55                         | 1.95                      |
| EMC60020200   | R1.0                                     | 2.0                         | 4                            | 2                         | 20                             | 55                         | 1.95                      |
| EMC60020220   | R1.0                                     | 2.0                         | 4                            | 2                         | 22                             | 60                         | 1.95                      |
| EMC60020260   | R1.0                                     | 2.0                         | 4                            | 2                         | 26                             | 70                         | 1.95                      |
| EMC60020300   | R1.0                                     | 2.0                         | 4                            | 2                         | 30                             | 70                         | 1.95                      |
| EMC60025080   | R1.25                                    | 2.5                         | 6                            | 2.5                       | 8                              | 50                         | 2.4                       |
| EMC60025100   | R1.25                                    | 2.5                         | 6                            | 2.5                       | 10                             | 50                         | 2.4                       |
| EMC60025160   | R1.25                                    | 2.5                         | 6                            | 2.5                       | 16                             | 55                         | 2.4                       |
| EMC60025200   | R1.25                                    | 2.5                         | 6                            | 2.5                       | 20                             | 60                         | 2.4                       |
| EMC60030080   | R1.5                                     | 3.0                         | 6                            | 3                         | 8                              | 50                         | 2.85                      |
| EMC60030100   | R1.5                                     | 3.0                         | 6                            | 3                         | 10                             | 50                         | 2.85                      |
| EMC60030120   | R1.5                                     | 3.0                         | 6                            | 3                         | 12                             | 50                         | 2.85                      |
| EMC60030140   | R1.5                                     | 3.0                         | 6                            | 3                         | 14                             | 55                         | 2.85                      |
| EMC60030160   | R1.5                                     | 3.0                         | 6                            | 3                         | 16                             | 55                         | 2.85                      |
| EMC60030180   | R1.5                                     | 3.0                         | 6                            | 3                         | 18                             | 60                         | 2.85                      |
| EMC60030200   | R1.5                                     | 3.0                         | 6                            | 3                         | 20                             | 60                         | 2.85                      |
| EMC60030260   | R1.5                                     | 3.0                         | 6                            | 3                         | 26                             | 70                         | 2.85                      |
| EMC60030300   | R1.5                                     | 3.0                         | 6                            | 3                         | 30                             | 70                         | 2.85                      |

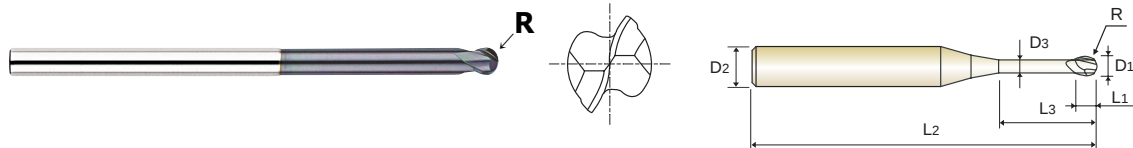
◎ : 优(Excellent) ○ : 良(Good)

| 碳钢            | 合金钢          | 预硬钢                | 硬化钢             |          | 高硬钢                  | 铜      | 石墨       | 铸铁        | 铝        | 不锈钢              | 钛        | 镍钛合金    |
|---------------|--------------|--------------------|-----------------|----------|----------------------|--------|----------|-----------|----------|------------------|----------|---------|
| Carbon Steels | Alloy Steels | Prehardened Steels | Hardened Steels |          | High Hardened Steels | Copper | Graphite | Cast Iron | Aluminum | Stainless Steels | Titanium | Inconel |
| ~HB225        | HB225~325    | HRC30~40           | HRc40~45        | HRc45~55 | HRc55~70             |        |          |           |          |                  |          |         |
| ◎             | ◎            | ◎                  | ○               |          |                      |        |          | ○         |          |                  |          |         |

# 硬质合金, 2刃 颈部长型 球头 CARBIDE, 2 FLUTE LONG NECK BALL NOSE

- ▶ 设计用于加工碳钢, 工具钢, 合金钢, 不锈钢等多种用途的钢
- ▶ 由于颈部稍细能够加工深槽。
- ▶ 高耐磨性。

- ▶ Designed for general purposes to carbon steels, tool steels, alloy steels and stainless steels.
- ▶ Deep slotting is possible by reduced neck.
- ▶ Suitable for high speed machining in wet or dry condition.



P.871

单位(Unit) : mm

| 型号<br>EDP No. | 球头半径<br>Radius of Ball Nose<br>R (±0.01) | 刃部直径<br>Mill Diameter<br>D1 | 柄部直径<br>Shank Diameter<br>D2 | 刃长<br>Length of Cut<br>L1 | 颈长<br>Length Below Shank<br>L3 | 全长<br>Overall Length<br>L2 | 颈径<br>Neck Diameter<br>D3 |
|---------------|------------------------------------------|-----------------------------|------------------------------|---------------------------|--------------------------------|----------------------------|---------------------------|
| EMC60030360   | R1.5                                     | 3.0                         | 6                            | 3                         | 36                             | 80                         | 2.85                      |
| EMC60040100   | R2.0                                     | 4.0                         | 6                            | 4                         | 10                             | 60                         | 3.85                      |
| EMC60040120   | R2.0                                     | 4.0                         | 6                            | 4                         | 12                             | 60                         | 3.85                      |
| EMC60040160   | R2.0                                     | 4.0                         | 6                            | 4                         | 16                             | 60                         | 3.85                      |
| EMC60040200   | R2.0                                     | 4.0                         | 6                            | 4                         | 20                             | 65                         | 3.85                      |
| EMC60040260   | R2.0                                     | 4.0                         | 6                            | 4                         | 26                             | 70                         | 3.85                      |
| EMC60040300   | R2.0                                     | 4.0                         | 6                            | 4                         | 30                             | 70                         | 3.85                      |
| EMC60040360   | R2.0                                     | 4.0                         | 6                            | 4                         | 36                             | 80                         | 3.85                      |
| EMC60040400   | R2.0                                     | 4.0                         | 6                            | 4                         | 40                             | 90                         | 3.85                      |
| EMC60040460   | R2.0                                     | 4.0                         | 6                            | 4                         | 46                             | 90                         | 3.85                      |
| EMC60040500   | R2.0                                     | 4.0                         | 6                            | 4                         | 50                             | 100                        | 3.85                      |
| EMC60050160   | R2.5                                     | 5.0                         | 6                            | 5                         | 16                             | 60                         | 4.85                      |
| EMC60050200   | R2.5                                     | 5.0                         | 6                            | 5                         | 20                             | 60                         | 4.85                      |
| EMC60050260   | R2.5                                     | 5.0                         | 6                            | 5                         | 26                             | 70                         | 4.85                      |
| EMC60050300   | R2.5                                     | 5.0                         | 6                            | 5                         | 30                             | 80                         | 4.85                      |
| EMC60050360   | R2.5                                     | 5.0                         | 6                            | 5                         | 36                             | 80                         | 4.85                      |
| EMC60060200   | R3.0                                     | 6.0                         | 6                            | 6                         | 20                             | 80                         | 5.85                      |
| EMC60060300   | R3.0                                     | 6.0                         | 6                            | 6                         | 30                             | 90                         | 5.85                      |
| EMC60060400   | R3.0                                     | 6.0                         | 6                            | 6                         | 40                             | 100                        | 5.85                      |
| EMC60060500   | R3.0                                     | 6.0                         | 6                            | 6                         | 50                             | 110                        | 5.85                      |

| 尺寸<br>Size | 刃部公差<br>Mill Dia.<br>Tolerance (mm) | 柄部公差<br>Shank Dia.<br>Tolerance |
|------------|-------------------------------------|---------------------------------|
| up to Ø3   | 0~-0.015                            | h6                              |
| over Ø3    | 0~-0.020                            |                                 |

| 碳钢<br>Carbon Steels | 合金钢<br>Alloy Steels | 预硬钢<br>Prehardened Steels | 硬化钢<br>Hardened Steels | 高硬钢<br>High Hardened Steels | 铜<br>Copper | 石墨<br>Graphite | 铸铁<br>Cast Iron | 铝<br>Aluminum | 不锈钢<br>Stainless Steels | 钛<br>Titanium | 镍钴铁合金<br>Inconel |
|---------------------|---------------------|---------------------------|------------------------|-----------------------------|-------------|----------------|-----------------|---------------|-------------------------|---------------|------------------|
| ~HB225              | HB225~325           | HRC30~40                  | HRC40~45 HRC45~55      | HRC55~70                    |             |                |                 |               |                         |               |                  |
| ◎                   | ◎                   | ◎                         | ○                      |                             |             |                | ○               |               |                         |               |                  |

◎ : 优(Excellent) ○ : 良(Good)



# K-2 CARBIDE END MILLS

**EMC61** SERIES

PLAIN SHANK

## 硬质合金, 2刃 圆鼻铣刀

## CARBIDE, 2 FLUTE CORNER RADIUS

- ▶ 设计用于加工碳钢, 工具钢, 合金钢, 不锈钢等多种用途的钢
- ▶ 高耐磨性
- ▶ 弧形角可防止高速切削时崩刃
- ▶ 适应于高速加工, 湿式和干式切削条件

- ▶ Designed for general purposes to carbon steels, tool steels, alloy steels and stainless steels.
- ▶ Suitable for high speed machining in wet or dry condition.
- ▶ Corner radius against chipping in high speed machining.
- ▶ Application in high speed machining, wet and dry cutting conditions.


**MG  
HM**
**2**
**30°**
**R  
±0.020**
**PLAIN**

P.872

Unit : mm

| 型号<br>EDP No. | 圆弧半径<br>Corner Radius<br>R | 刃部直径<br>Mill Diameter | 柄部直径<br>Shank Diameter | 刃长<br>Length of Cut | 全长<br>Overall Length |
|---------------|----------------------------|-----------------------|------------------------|---------------------|----------------------|
| EMC6103002    | RO.2                       | 3.0                   | 6                      | 10                  | 70                   |
| EMC6103003    | RO.3                       | 3.0                   | 6                      | 10                  | 70                   |
| EMC6103005    | RO.5                       | 3.0                   | 6                      | 10                  | 70                   |
| EMC6104002    | RO.2                       | 4.0                   | 6                      | 12                  | 70                   |
| EMC6104003    | RO.3                       | 4.0                   | 6                      | 12                  | 70                   |
| EMC6104005    | RO.5                       | 4.0                   | 6                      | 12                  | 70                   |
| EMC6104010    | R1.0                       | 4.0                   | 6                      | 12                  | 70                   |
| EMC6105002    | RO.2                       | 5.0                   | 6                      | 15                  | 80                   |
| EMC6105003    | RO.3                       | 5.0                   | 6                      | 15                  | 80                   |
| EMC6105005    | RO.5                       | 5.0                   | 6                      | 15                  | 80                   |
| EMC6105010    | R1.0                       | 5.0                   | 6                      | 15                  | 80                   |
| EMC6106002    | RO.2                       | 6.0                   | 6                      | 15                  | 90                   |
| EMC6106003    | RO.3                       | 6.0                   | 6                      | 15                  | 90                   |
| EMC6106005    | RO.5                       | 6.0                   | 6                      | 15                  | 90                   |
| EMC6106010    | R1.0                       | 6.0                   | 6                      | 15                  | 90                   |
| EMC6108003    | RO.3                       | 8.0                   | 8                      | 20                  | 100                  |
| EMC6108005    | RO.5                       | 8.0                   | 8                      | 20                  | 100                  |
| EMC6108010    | R1.0                       | 8.0                   | 8                      | 20                  | 100                  |
| EMC6108015    | R1.5                       | 8.0                   | 8                      | 20                  | 100                  |
| EMC6108020    | R2.0                       | 8.0                   | 8                      | 20                  | 100                  |
| EMC6110003    | RO.3                       | 10.0                  | 10                     | 25                  | 100                  |
| EMC6110005    | RO.5                       | 10.0                  | 10                     | 25                  | 100                  |
| EMC6110010    | R1.0                       | 10.0                  | 10                     | 25                  | 100                  |
| EMC6110015    | R1.5                       | 10.0                  | 10                     | 25                  | 100                  |
| EMC6110020    | R2.0                       | 10.0                  | 10                     | 25                  | 100                  |
| EMC6110025    | R2.5                       | 10.0                  | 10                     | 25                  | 100                  |
| EMC6112003    | RO.3                       | 12.0                  | 12                     | 30                  | 110                  |
| EMC6112005    | RO.5                       | 12.0                  | 12                     | 30                  | 110                  |
| EMC6112010    | R1.0                       | 12.0                  | 12                     | 30                  | 110                  |
| EMC6112015    | R1.5                       | 12.0                  | 12                     | 30                  | 110                  |
| EMC6112020    | R2.0                       | 12.0                  | 12                     | 30                  | 110                  |
| EMC6112025    | R2.5                       | 12.0                  | 12                     | 30                  | 110                  |
| EMC6112030    | R3.0                       | 12.0                  | 12                     | 30                  | 110                  |

| 刃部公差<br>Mill Dia.<br>Tolerance(mm) | 柄部公差<br>Shank Dia.<br>Tolerance |
|------------------------------------|---------------------------------|
| 0~-0.03                            | h6                              |

◎ : 优(Excellent) ○ : 良(Good)

| 碳钢<br>Carbon Steels | 合金钢<br>Alloy Steels | 预硬钢<br>Prehardened Steels | 硬化钢<br>Hardened Steels | 高硬钢<br>High Hardened Steels | 铜<br>Copper | 石墨<br>Graphite | 铸铁<br>Cast Iron | 铝<br>Aluminum | 不锈钢<br>Stainless Steels | 钛<br>Titanium | 镍铬铁合金<br>Inconel |
|---------------------|---------------------|---------------------------|------------------------|-----------------------------|-------------|----------------|-----------------|---------------|-------------------------|---------------|------------------|
| ~HB225              | HB225~325           | HRC30~40                  | HRc40~45 HRc45~55      | HRc55~70                    |             |                |                 |               |                         |               |                  |
| ◎                   | ◎                   | ◎                         | ○                      |                             |             |                | ○               |               | ○                       |               |                  |

# 硬质合金, 4刃 圆鼻铣刀

## CARBIDE, 4 FLUTE CORNER RADIUS

- ▶ 设计用于加工碳钢, 工具钢, 合金钢, 不锈钢等多种用途的钢
- ▶ 高耐磨性
- ▶ 4刃可得到较好的表面粗糙度
- ▶ 弧形角可防止高速切削时崩刃
- ▶ 适应于高速加工, 湿式和干式切削条件

- ▶ Designed for general purposes to carbon steels, tool steels, alloy steels and stainless steels.
- ▶ Suitable for high speed machining in wet or dry condition.
- ▶ 4 flute allows for better work piece finishes.
- ▶ Corner radius against chipping in high speed machining.
- ▶ Application in high speed machining, wet and dry cutting conditions.



Unit : mm

| 型号<br>EDP No. | 圆弧半径<br>Corner Radius<br>R | 刃部直径<br>Mill Diameter | 柄部直径<br>Shank Diameter | 刃长<br>Length of Cut | 全长<br>Overall Length |
|---------------|----------------------------|-----------------------|------------------------|---------------------|----------------------|
| EMC6203002    | RO.2                       | 3.0                   | 6                      | 10                  | 70                   |
| EMC6203003    | RO.3                       | 3.0                   | 6                      | 10                  | 70                   |
| EMC6203005    | RO.5                       | 3.0                   | 6                      | 10                  | 70                   |
| EMC6204002    | RO.2                       | 4.0                   | 6                      | 12                  | 70                   |
| EMC6204003    | RO.3                       | 4.0                   | 6                      | 12                  | 70                   |
| EMC6204005    | RO.5                       | 4.0                   | 6                      | 12                  | 70                   |
| EMC6204010    | R1.0                       | 4.0                   | 6                      | 12                  | 70                   |
| EMC6205002    | RO.2                       | 5.0                   | 6                      | 15                  | 80                   |
| EMC6205003    | RO.3                       | 5.0                   | 6                      | 15                  | 80                   |
| EMC6205005    | RO.5                       | 5.0                   | 6                      | 15                  | 80                   |
| EMC6205010    | R1.0                       | 5.0                   | 6                      | 15                  | 80                   |
| EMC6206002    | RO.2                       | 6.0                   | 6                      | 15                  | 90                   |
| EMC6206003    | RO.3                       | 6.0                   | 6                      | 15                  | 90                   |
| EMC6206005    | RO.5                       | 6.0                   | 6                      | 15                  | 90                   |
| EMC6206010    | R1.0                       | 6.0                   | 6                      | 15                  | 90                   |
| EMC6208003    | RO.3                       | 8.0                   | 8                      | 20                  | 100                  |
| EMC6208005    | RO.5                       | 8.0                   | 8                      | 20                  | 100                  |
| EMC6208010    | R1.0                       | 8.0                   | 8                      | 20                  | 100                  |
| EMC6208015    | R1.5                       | 8.0                   | 8                      | 20                  | 100                  |
| EMC6208020    | R2.0                       | 8.0                   | 8                      | 20                  | 100                  |
| EMC6210003    | RO.3                       | 10.0                  | 10                     | 25                  | 100                  |
| EMC6210005    | RO.5                       | 10.0                  | 10                     | 25                  | 100                  |
| EMC6210010    | R1.0                       | 10.0                  | 10                     | 25                  | 100                  |
| EMC6210015    | R1.5                       | 10.0                  | 10                     | 25                  | 100                  |
| EMC6210020    | R2.0                       | 10.0                  | 10                     | 25                  | 100                  |
| EMC6210025    | R2.5                       | 10.0                  | 10                     | 25                  | 100                  |
| EMC6212005    | RO.5                       | 12.0                  | 12                     | 30                  | 110                  |
| EMC6212010    | R1.0                       | 12.0                  | 12                     | 30                  | 110                  |
| EMC6212015    | R1.5                       | 12.0                  | 12                     | 30                  | 110                  |
| EMC6212020    | R2.0                       | 12.0                  | 12                     | 30                  | 110                  |
| EMC6212025    | R2.5                       | 12.0                  | 12                     | 30                  | 110                  |
| EMC6212030    | R3.0                       | 12.0                  | 12                     | 30                  | 110                  |

| 刃部公差<br>Mill Dia.<br>Tolerance(mm) | 柄部公差<br>Shank Dia.<br>Tolerance |
|------------------------------------|---------------------------------|
| 0~-0.03                            | h6                              |

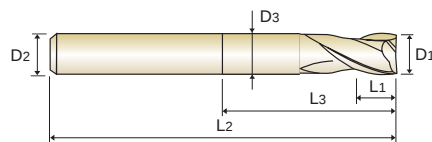
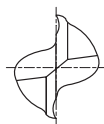
| 碳钢<br>Carbon Steels | 合金钢<br>Alloy Steels | 预硬钢<br>Prehardened Steels | 硬化钢<br>Hardened Steels | 高硬钢<br>High Hardened Steels | 铜<br>Copper | 石墨<br>Graphite | 铸铁<br>Cast Iron | 铝<br>Aluminum | 不锈钢<br>Stainless Steels | 钛<br>Titanium | 镍钴铁合金<br>Inconel |
|---------------------|---------------------|---------------------------|------------------------|-----------------------------|-------------|----------------|-----------------|---------------|-------------------------|---------------|------------------|
| ~HB225              | HB225~325           | HRC30~40                  | HRC40~45 HRC45~55      | HRC55~70                    |             |                |                 |               |                         |               |                  |
| ◎                   | ◎                   | ◎                         | ○                      |                             |             |                | ○               |               | ○                       |               |                  |

◎ : 优(Excellent) ○ : 良(Good)


**硬质合金, 2刃 颈部延伸**
**CARBIDE, 2 FLUTE EXTENDED NECK**

- ▶ 为加工高硬度材料设计.
- ▶ 最新开发的原材料和涂层适用于干式切削, 高速切削.
- ▶ 卓越的工件表面粗糙度.
- ▶ 由于颈部稍细能够加工深槽.
- ▶ 极高的耐磨性.

- ▶ Designed to machine high hardened materials.
- ▶ Suitable for high speed machining in dry due to newly developed raw material and coating.
- ▶ Excellent workpiece finishes.
- ▶ Suitable deep slotting due to reduced long neck.
- ▶ Superior wear-resistance.



P.874

单位(Unit) : mm

| 型号<br>EDP No. | 刃部直径<br>Mill Diameter<br>D1 | 柄部直径<br>Shank Diameter<br>D2 | 刃长<br>Length of Cut<br>L1 | 颈长<br>Length Below Shank<br>L3 | 全长<br>Overall Length<br>L2 | 颈径<br>Neck Diameter<br>D3 |
|---------------|-----------------------------|------------------------------|---------------------------|--------------------------------|----------------------------|---------------------------|
| GFC63004      | 0.4                         | 4                            | 0.8                       | -                              | 40                         | -                         |
| GFC63005      | 0.5                         | 4                            | 1                         | -                              | 40                         | -                         |
| GFC63006      | 0.6                         | 4                            | 1.2                       | -                              | 40                         | -                         |
| GFC63007      | 0.7                         | 4                            | 1.4                       | -                              | 40                         | -                         |
| GFC63008      | 0.8                         | 4                            | 1.6                       | -                              | 40                         | -                         |
| GFC63009      | 0.9                         | 4                            | 2                         | -                              | 40                         | -                         |
| GFC63010      | 1.0                         | 6                            | 1.5                       | 3                              | 50                         | 0.95                      |
| GFC63015      | 1.5                         | 6                            | 1.7                       | 4                              | 50                         | 1.45                      |
| GFC63020      | 2.0                         | 6                            | 2                         | 5                              | 50                         | 1.95                      |
| GFC63025      | 2.5                         | 6                            | 2.5                       | 6                              | 55                         | 2.4                       |
| GFC63030      | 3.0                         | 6                            | 3                         | 8                              | 55                         | 2.85                      |
| GFC63035      | 3.5                         | 6                            | 3.5                       | 9                              | 55                         | 3.35                      |
| GFC63040      | 4.0                         | 6                            | 4                         | 10                             | 55                         | 3.85                      |
| GFC63050      | 5.0                         | 6                            | 5                         | 13                             | 55                         | 4.85                      |
| GFC63060      | 6.0                         | 6                            | 6                         | 15                             | 55                         | 5.85                      |
| GFC63080      | 8.0                         | 8                            | 8                         | 20                             | 65                         | 7.7                       |
| GFC63100      | 10.0                        | 10                           | 10                        | 25                             | 75                         | 9.7                       |
| GFC63120      | 12.0                        | 12                           | 12                        | 28                             | 85                         | 11.7                      |
| GFC63160      | 16.0                        | 16                           | 16                        | 32                             | 90                         | 15.7                      |
| GFC63200      | 20.0                        | 20                           | 20                        | 40                             | 105                        | 19.7                      |

| 尺寸<br>Size | 刃部公差<br>Mill Dia.<br>Tolerance (mm) | 柄部公差<br>Shank Dia.<br>Tolerance |
|------------|-------------------------------------|---------------------------------|
| up to Ø6   | 0~-0.015                            | h6                              |
| over Ø6    | 0~-0.020                            |                                 |

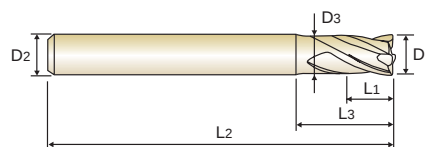
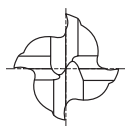
◎ : 优(Excellent) ○ : 良(Good)

| 碳钢<br>Carbon Steels | 合金钢<br>Alloy Steels | 预硬钢<br>Prehardened Steels | 硬化钢<br>Hardened Steels |          | 高硬钢<br>High Hardened Steels | 铜<br>Copper | 石墨<br>Graphite | 铸铁<br>Cast Iron | 铝<br>Aluminum | 不锈钢<br>Stainless Steels | 钛<br>Titanium | 镍铬铁合金<br>Inconel |
|---------------------|---------------------|---------------------------|------------------------|----------|-----------------------------|-------------|----------------|-----------------|---------------|-------------------------|---------------|------------------|
| ~HB225              | HB225~325           | HRc30~40                  | HRc40~45               | HRc45~55 | HRc55~70                    |             |                |                 |               |                         |               |                  |
|                     | ○                   | ◎                         | ◎                      | ◎        | ○                           |             |                |                 |               |                         |               |                  |

# 硬质合金, 4刃 颈部延伸 CARBIDE, 4 FLUTE EXTENDED NECK

- ▶ 为加工高硬度材料设计.
- ▶ 最新开发的原材料和涂层适用于干式切削, 高速切削.
- ▶ 卓越的工作表面粗糙度.
- ▶ 由于颈部稍细能够加工深槽.
- ▶ 极高的耐磨性.

- ▶ Designed to machine high hardened materials.
- ▶ Suitable for high speed machining in dry due to newly developed raw material and coating.
- ▶ Excellent workpiece finishes.
- ▶ Suitable deep slotting due to reduced long neck.
- ▶ Superior wear-resistance.



单位(Unit) : mm

| 型号<br>EDP No. | 刃部直径<br>Mill Diameter<br>D1 | 柄部直径<br>Shank Diameter<br>D2 | 刃长<br>Length of Cut<br>L1 | 颈长<br>Length Below Shank<br>L3 | 全长<br>Overall Length<br>L2 | 颈径<br>Neck Diameter<br>D3 |
|---------------|-----------------------------|------------------------------|---------------------------|--------------------------------|----------------------------|---------------------------|
| GFC64010      | 1.0                         | 6                            | 1.5                       | 3                              | 50                         | 0.95                      |
| GFC64020      | 2.0                         | 6                            | 2                         | 5                              | 50                         | 1.95                      |
| GFC64030      | 3.0                         | 6                            | 3                         | 8                              | 55                         | 2.85                      |
| GFC64040      | 4.0                         | 6                            | 4                         | 10                             | 55                         | 3.85                      |
| GFC64050      | 5.0                         | 6                            | 5                         | 13                             | 55                         | 4.85                      |
| GFC64060      | 6.0                         | 6                            | 6                         | 15                             | 55                         | 5.85                      |
| GFC64080      | 8.0                         | 8                            | 8                         | 20                             | 65                         | 7.7                       |
| GFC64100      | 10.0                        | 10                           | 10                        | 25                             | 75                         | 9.7                       |
| GFC64120      | 12.0                        | 12                           | 12                        | 28                             | 85                         | 11.7                      |
| GFC64160      | 16.0                        | 16                           | 16                        | 32                             | 90                         | 15.7                      |
| GFC64200      | 20.0                        | 20                           | 20                        | 40                             | 105                        | 19.7                      |

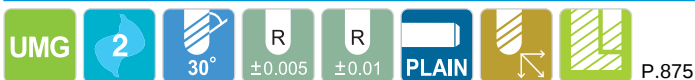
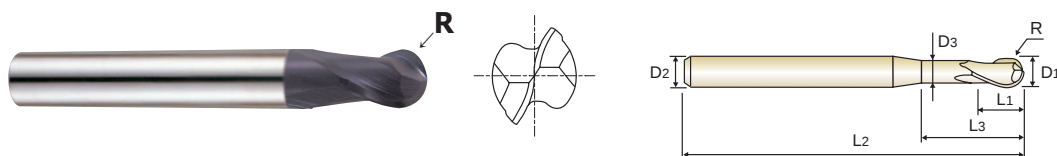
| 尺寸<br>Size | 刃部公差<br>Mill Dia.<br>Tolerance (mm) | 柄部公差<br>Shank Dia.<br>Tolerance |
|------------|-------------------------------------|---------------------------------|
| up to Ø6   | 0~-0.015                            | h6                              |
| over Ø6    | 0~-0.020                            |                                 |

| 碳钢<br>Carbon Steels | 合金钢<br>Alloy Steels | 预硬钢<br>Prehardened Steels | 硬化钢<br>Hardened Steels |          | 高硬钢<br>High Hardened Steels | 铜<br>Copper | 石墨<br>Graphite | 铸铁<br>Cast Iron | 铝<br>Aluminum | 不锈钢<br>Stainless Steels | 钛<br>Titanium | 镍钛合金<br>Inconel |
|---------------------|---------------------|---------------------------|------------------------|----------|-----------------------------|-------------|----------------|-----------------|---------------|-------------------------|---------------|-----------------|
| ~HB225              | HB225~325           | HRC30~40                  | HRC40~45               | HRC45~55 | HRC55~70                    |             |                |                 |               |                         |               |                 |
|                     | ○                   | ◎                         | ◎                      | ◎        | ○                           |             |                |                 |               |                         |               |                 |


**硬质合金, 2刃 短刃 球头**
**CARBIDE, 2 FLUTE SHORT LENGTH BALL NOSE**

- ▶ 为加工高硬度材料设计。
- ▶ 适于干式切削, 高速切削, 最新开发的原材料和涂层。
- ▶ 卓越的工作表面粗糙度。
- ▶ 为高精度铣削设计。
- ▶ 极高的耐磨性。

- ▶ Designed to machine high hardened materials.
- ▶ Suitable for high speed machining in dry due to newly developed raw material and coating.
- ▶ Excellent workpiece finishes.
- ▶ Designed for high precision milling operation.
- ▶ Superior wear-resistance.



R0.1-R3 R4-R6

单位(Unit) : mm

| 型号<br>EDP No. | 球头半径<br>Radius of Ball Nose<br>R | 刃部直径<br>Mill Diameter<br>D1 | 柄部直径<br>Shank Diameter<br>D2 | 刃长<br>Length of Cut<br>L1 | 颈长<br>Length Below Shank<br>L3 | 全长<br>Overall Length<br>L2 | 颈径<br>Neck Diameter<br>D3 |
|---------------|----------------------------------|-----------------------------|------------------------------|---------------------------|--------------------------------|----------------------------|---------------------------|
| GFC65002      | R0.1                             | 0.2                         | 4                            | 0.3                       | -                              | 40                         | -                         |
| GFC65003      | R0.15                            | 0.3                         | 4                            | 0.5                       | -                              | 40                         | -                         |
| GFC65004      | R0.2                             | 0.4                         | 4                            | 0.6                       | -                              | 40                         | -                         |
| GFC65005      | R0.25                            | 0.5                         | 4                            | 0.7                       | -                              | 40                         | -                         |
| GFC65006      | R0.3                             | 0.6                         | 4                            | 0.9                       | -                              | 40                         | -                         |
| GFC65007      | R0.35                            | 0.7                         | 4                            | 1.1                       | -                              | 40                         | -                         |
| GFC65008      | R0.4                             | 0.8                         | 4                            | 1.2                       | -                              | 40                         | -                         |
| GFC65009      | R0.45                            | 0.9                         | 4                            | 1.4                       | -                              | 40                         | -                         |
| GFC65010      | R0.5                             | 1.0                         | 6                            | 1.5                       | 3                              | 50                         | 0.95                      |
| GFC65015      | R0.75                            | 1.5                         | 6                            | 2                         | 4                              | 50                         | 1.45                      |
| GFC65020      | R1.0                             | 2.0                         | 6                            | 2.5                       | 5                              | 50                         | 1.95                      |
| GFC65025      | R1.25                            | 2.5                         | 6                            | 3                         | 7                              | 50                         | 2.4                       |
| GFC65030      | R1.5                             | 3.0                         | 6                            | 4                         | 10                             | 60                         | 2.85                      |
| GFC65040      | R2.0                             | 4.0                         | 6                            | 5                         | 10                             | 60                         | 3.85                      |
| GFC65050      | R2.5                             | 5.0                         | 6                            | 6                         | 12                             | 60                         | 4.85                      |
| GFC65060      | R3.0                             | 6.0                         | 6                            | 7                         | 15                             | 60                         | 5.85                      |
| GFC65080      | R4.0                             | 8.0                         | 8                            | 9                         | 15                             | 60                         | 7.7                       |
| GFC6508080    | R4.0                             | 8.0                         | 8                            | 9                         | 15                             | 80                         | 7.7                       |
| GFC65100      | R5.0                             | 10.0                        | 10                           | 11                        | 25                             | 60                         | 9.7                       |
| GFC6510080    | R5.0                             | 10.0                        | 10                           | 11                        | 25                             | 80                         | 9.7                       |
| GFC65120      | R6.0                             | 12.0                        | 12                           | 14                        | 25                             | 80                         | 11.7                      |

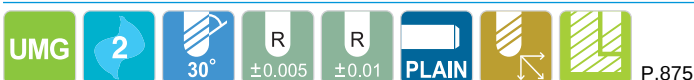
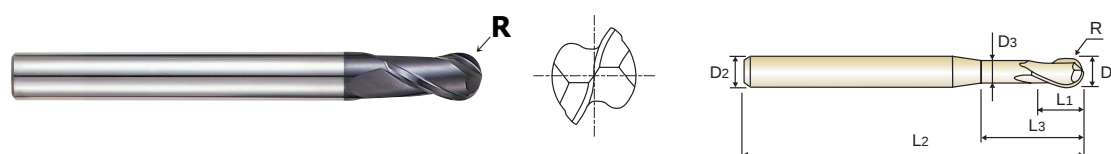
| 尺寸<br>Size | 半径公差<br>Radius Tolerance (mm) | 刃部公差<br>Mill Dia. Tolerance (mm) | 柄部公差<br>Shank Dia. Tolerance |
|------------|-------------------------------|----------------------------------|------------------------------|
| up to R3   | ±0.005                        | 0~-0.015                         | h6                           |
| over R3    | ±0.010                        | 0~-0.020                         |                              |

| 碳钢<br>Carbon Steels | 合金钢<br>Alloy Steels | 预硬钢<br>Prehardened Steels | 硬化钢<br>Hardened Steels | 高硬钢<br>High Hardened Steels | 铜<br>Copper | 石墨<br>Graphite | 铸铁<br>Cast Iron | 铝<br>Aluminum | 不锈钢<br>Stainless Steels | 钛<br>Titanium | 镍铬铁合金<br>Inconel |
|---------------------|---------------------|---------------------------|------------------------|-----------------------------|-------------|----------------|-----------------|---------------|-------------------------|---------------|------------------|
| ~HB225              | HB225~325           | HRc30~40                  | HRc40~45 HRc45~55      | HRc55~70                    |             |                |                 |               |                         |               |                  |
|                     | ○                   | ◎                         | ◎                      | ◎                           | ○           |                |                 |               |                         |               |                  |

◎ : 优(Excellent) ○ : 良(Good)

# 硬质合金, 2刃 超短型 颈部延伸 球头 CARBIDE, 2 FLUTE STUB LENGTH EXTENDED NECK BALL NOSE

- ▶ 为加工高硬度材料设计.
  - ▶ 适于干式切削, 高速切削, 最新开发的原材料和涂层.
  - ▶ 卓越的工作表面粗糙度.
  - ▶ 为高精度铣削设计.
  - ▶ 极高的耐磨性.
- ▶ Designed to machine high hardened materials.
  - ▶ Suitable for high speed machining in dry due to newly developed raw material and coating.
  - ▶ Excellent workpiece finishes.
  - ▶ Designed for high precision milling operation.
  - ▶ Superior wear-resistance.



R0.5-R3 R3.5-R10

单位(Unit) : mm

| 型号<br>EDP No. | 球头半径<br>Radius of Ball Nose<br>R | 刃部直径<br>Mill Diameter<br>D1 | 柄部直径<br>Shank Diameter<br>D2 | 刃长<br>Length of Cut<br>L1 | 颈长<br>Length Below Shank<br>L3 | 全长<br>Overall Length<br>L2 | 颈径<br>Neck Diameter<br>D3 |
|---------------|----------------------------------|-----------------------------|------------------------------|---------------------------|--------------------------------|----------------------------|---------------------------|
| GFC66010      | R0.5                             | 1.0                         | 4                            | 1                         | 2.2                            | 50                         | 0.95                      |
| GFC66012      | R0.6                             | 1.2                         | 4                            | 1.2                       | 2.6                            | 50                         | 1.15                      |
| GFC66015      | R0.75                            | 1.5                         | 4                            | 1.5                       | 3                              | 50                         | 1.45                      |
| GFC66020      | R1.0                             | 2.0                         | 6                            | 2                         | 4                              | 50                         | 1.95                      |
| GFC66030      | R1.5                             | 3.0                         | 6                            | 3                         | 6                              | 60                         | 2.85                      |
| GFC66040      | R2.0                             | 4.0                         | 6                            | 4                         | 8                              | 70                         | 3.85                      |
| GFC66050      | R2.5                             | 5.0                         | 6                            | 5                         | 10                             | 80                         | 4.85                      |
| GFC66060      | R3.0                             | 6.0                         | 6                            | 6                         | 12                             | 90                         | 5.85                      |
| GFC66070      | R3.5                             | 7.0                         | 8                            | 7                         | 14                             | 90                         | 6.85                      |
| GFC66080      | R4.0                             | 8.0                         | 8                            | 8                         | 16                             | 100                        | 7.7                       |
| GFC66090      | R4.5                             | 9.0                         | 10                           | 9                         | 18                             | 100                        | 8.7                       |
| GFC66100      | R5.0                             | 10.0                        | 10                           | 10                        | 20                             | 100                        | 9.7                       |
| GFC66120      | R6.0                             | 12.0                        | 12                           | 12                        | 24                             | 110                        | 11.7                      |
| GFC66140      | R7.0                             | 14.0                        | 14                           | 14                        | 28                             | 110                        | 13.7                      |
| GFC66160      | R8.0                             | 16.0                        | 16                           | 16                        | 32                             | 140                        | 15.7                      |
| GFC66180      | R9.0                             | 18.0                        | 18                           | 18                        | 36                             | 140                        | 17.7                      |
| GFC66200      | R10.0                            | 20.0                        | 20                           | 20                        | 40                             | 160                        | 19.7                      |

| 尺寸<br>Size | 半径公差<br>Radius Tolerance (mm) | 刃部公差<br>Mill Dia. Tolerance (mm) | 柄部公差<br>Shank Dia. Tolerance |
|------------|-------------------------------|----------------------------------|------------------------------|
| up to R3   | ±0.005                        | 0~-0.015                         | h6                           |
| over R3    | ±0.010                        | 0~-0.020                         |                              |

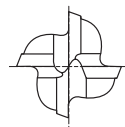
◎ : 优(Excellent) ○ : 良(Good)

| 碳钢            | 合金钢          | 预硬钢                | 硬化钢             |          | 高硬钢                  | 铜      | 石墨       | 铸铁        | 铝        | 不锈钢              | 钛        | 镍钴铁合金   |
|---------------|--------------|--------------------|-----------------|----------|----------------------|--------|----------|-----------|----------|------------------|----------|---------|
| Carbon Steels | Alloy Steels | Prehardened Steels | Hardened Steels |          | High Hardened Steels | Copper | Graphite | Cast Iron | Aluminum | Stainless Steels | Titanium | Inconel |
| ~HB225        | HB225~325    | HRC30~40           | HRC40~45        | HRC45~55 | HRC55~70             |        |          |           |          |                  |          |         |
|               | ○            | ◎                  | ◎               | ◎        | ○                    |        |          |           |          |                  |          |         |


**硬质合金, 4刃 短刃**
**CARBIDE, 4 FLUTE SHORT LENGTH**

- ▶ 低音的设计可以减少振动。
- ▶ 适于加工不锈钢, 钛合金和硬度低于 H Rc40 的低硬度材料。
- ▶ 高速, 深切削和大切削量

- ▶ Special flute geometry eliminates vibrations.
- ▶ Designed for stainless steels, titanium alloys, and low hardness materials under HRc40.
- ▶ Higher speeds, deeper cuts and higher metal removal rates.


**MG  
HM**
**4**
**30°**
**PLAIN**


P.876

单位(Unit) : mm

| 型号<br>EDP No. | 刃部直径<br>Mill Diameter | 柄部直径<br>Shank Diameter | 刃长<br>Length of Cut | 全长<br>Overall Length |
|---------------|-----------------------|------------------------|---------------------|----------------------|
| EMC67060      | 6.0                   | 6                      | 10                  | 54                   |
| EMC67080      | 8.0                   | 8                      | 12                  | 58                   |
| EMC67100      | 10.0                  | 10                     | 14                  | 66                   |
| EMC67120      | 12.0                  | 12                     | 16                  | 73                   |
| EMC67140      | 14.0                  | 14                     | 18                  | 75                   |
| EMC67160      | 16.0                  | 16                     | 22                  | 82                   |
| EMC67180      | 18.0                  | 18                     | 24                  | 84                   |
| EMC67200      | 20.0                  | 20                     | 26                  | 92                   |

| 刃部公差<br>Mill Dia.<br>Tolerance(mm) | 柄部公差<br>Shank Dia.<br>Tolerance |
|------------------------------------|---------------------------------|
| 0~-0.03                            | h6                              |

◎ : 优(Excellent)    ○ : 良(Good)

| 碳钢<br>Carbon Steels | 合金钢<br>Alloy Steels | 预硬钢<br>Prehardened Steels | 硬化钢<br>Hardened Steels | 高硬钢<br>High Hardened Steels | 铜<br>Copper | 石墨<br>Graphite | 铸铁<br>Cast Iron | 铝<br>Aluminum | 不锈钢<br>Stainless Steels | 钛<br>Titanium | 镍铬铁合金<br>Inconel |
|---------------------|---------------------|---------------------------|------------------------|-----------------------------|-------------|----------------|-----------------|---------------|-------------------------|---------------|------------------|
| ~HB225              | HB225~325           | HRc30~40                  | HRc40~45    HRc45~55   | HRc55~70                    |             |                |                 |               |                         |               |                  |
| ◎                   | ○                   | ○                         |                        |                             |             |                |                 |               | ◎                       | ◎             | ○                |

# 硬质合金, 4刃 长型

## CARBIDE, 4 FLUTE LONG LENGTH

- ▶ 低音的设计可以减少振动。
- ▶ 适于加工不锈钢, 钛合金和硬度低于 H Rc40 的低硬度材料。
- ▶ 高速, 深切削和大切削量

- ▶ Special flute geometry eliminates vibrations.
- ▶ Designed for stainless steels, titanium alloys, and low hardness materials under H Rc40.
- ▶ Higher speeds, deeper cuts and higher metal removal rates.



P.876

单位(Unit) : mm

| 型号<br>EDP No. | 刃部直径<br>Mill Diameter | 柄部直径<br>Shank Diameter | 刃长<br>Length of Cut | 全长<br>Overall Length |
|---------------|-----------------------|------------------------|---------------------|----------------------|
| EMC68060      | 6.0                   | 6                      | 13                  | 57                   |
| EMC68080      | 8.0                   | 8                      | 19                  | 63                   |
| EMC68100      | 10.0                  | 10                     | 22                  | 72                   |
| EMC68120      | 12.0                  | 12                     | 26                  | 83                   |
| EMC68140      | 14.0                  | 14                     | 26                  | 83                   |
| EMC68160      | 16.0                  | 16                     | 32                  | 92                   |
| EMC68180      | 18.0                  | 18                     | 32                  | 92                   |
| EMC68200      | 20.0                  | 20                     | 38                  | 104                  |

| 刃部公差<br>Mill Dia.<br>Tolerance(mm) | 柄部公差<br>Shank Dia.<br>Tolerance |
|------------------------------------|---------------------------------|
| 0~-0.03                            | h6                              |

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

◎ : 优(Excellent) ○ : 良(Good)

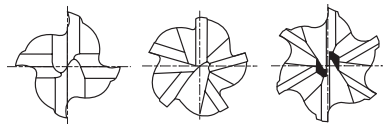
CARBIDE

HSS


**K-2 CARBIDE  
END MILLS**
**EMC69**
**SERIES**
**PLAIN SHANK**
**硬质合金, 多刃45度螺旋角 粗精加工**
**CARBIDE, MULTI FLUTE 45° HELIX ROUGHING-FINE**

- ▶ 适用于不锈钢系列, Ti/Ni, INCONEL(铬镍铁合金)等的粗加工
- ▶ 采用细螺纹, 适合高速加工

- ▶ Suitable for rough machining of stainless steels, Ti, Ni, Inconel etc.
- ▶ Fine pitch wave for high speed machining.


**MG  
HM**
**FINE**
**4-6**
**45°**
**PLAIN**


P.877

单位(Unit) : mm

| 型号<br>EDP No. | 刃部直径<br>Mill Diameter<br>h10 | 柄部直径<br>Shank Diameter<br>h6 | 刃长<br>Length of Cut | 全长<br>Overall Length | 刃数<br>No. of Flute |
|---------------|------------------------------|------------------------------|---------------------|----------------------|--------------------|
| EMC69060      | 6.0                          | 6                            | 13                  | 60                   | 4                  |
| EMC69080      | 8.0                          | 8                            | 19                  | 65                   | 4                  |
| EMC69090      | 9.0                          | 10                           | 20                  | 70                   | 4                  |
| EMC69100      | 10.0                         | 10                           | 22                  | 70                   | 4                  |
| EMC69120      | 12.0                         | 12                           | 26                  | 80                   | 4                  |
| EMC69160      | 16.0                         | 16                           | 42                  | 110                  | 5                  |
| EMC69200      | 20.0                         | 20                           | 48                  | 110                  | 6                  |

**DIN 7160 & 7161规定的精度**
**Tolerances according to DIN 7160 & 7161**

| 精度范围单位 / Tolerance range in $\mu m$ |             |             |              |               |               |
|-------------------------------------|-------------|-------------|--------------|---------------|---------------|
| 公称直径单位 / Nominal-Diameter in mm     |             |             |              |               |               |
|                                     | from 1 to 3 | over 3 to 6 | over 6 to 10 | over 10 to 18 | over 18 to 30 |
| h10                                 | 0<br>- 40   | 0<br>- 48   | 0<br>- 58    | 0<br>- 70     | 0<br>- 84     |
| h6                                  | 0<br>- 6    | 0<br>- 8    | 0<br>- 9     | 0<br>- 11     | 0<br>- 13     |

◎ : 优(Excellent)    ○ : 良(Good)

| 碳钢<br>Carbon Steels | 合金钢<br>Alloy Steels | 预硬钢<br>Prehardened Steels | 硬化钢<br>Hardened Steels |          | 高硬钢<br>High Hardened Steels | 铜<br>Copper | 石墨<br>Graphite | 铸铁<br>Cast Iron | 铝<br>Aluminum | 不锈钢<br>Stainless Steels | 钛<br>Titanium | 铬镍铁合金<br>Inconel |
|---------------------|---------------------|---------------------------|------------------------|----------|-----------------------------|-------------|----------------|-----------------|---------------|-------------------------|---------------|------------------|
| ~HB225              | HB225~325           | HRc30~40                  | HRc40~45               | HRc45~55 | HRc55~70                    |             |                |                 |               |                         |               |                  |
| ○                   | ◎                   | ◎                         | ◎                      |          |                             |             |                |                 |               | ◎                       | ◎             | ○                |

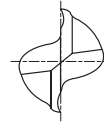
**856** • phone:+82-32-526-0909, fax:+82-32-526-4373, www.yg1.kr, E-mail:yg1@yg1.kr

**YG-1 CO., LTD.**

**硬质合金, 2刃 45度螺旋角 短刃****CARBIDE, 2 FLUTE 45° HELIX SHORT LENGTH**

- ▶ 适用铝及铝合金材质加工
- ▶ 其设计使振动最小化
- ▶ 镜面处理的切削刃可保证加工面的粗糙度
- ▶ 刃部直径公差高精密度

- ▶ Applied for aluminum and aluminum alloys.
- ▶ Designed to minimize vibration.
- ▶ Excellent surface roughness caused by Mirror Face of cutting edges.
- ▶ Precise tolerance of cutting diameters.



P.878

单位(Unit) : mm

| 型号<br>EDP No. | 刃部直径<br>Mill Diameter | 柄部直径<br>Shank Diameter | 刃长<br>Length of Cut | 全长<br>Overall Length |
|---------------|-----------------------|------------------------|---------------------|----------------------|
| E5C70010      | 1.0                   | 6                      | 3                   | 40                   |
| E5C70015      | 1.5                   | 6                      | 5                   | 40                   |
| E5C70020      | 2.0                   | 6                      | 6                   | 40                   |
| E5C70025      | 2.5                   | 6                      | 8                   | 40                   |
| E5C70030      | 3.0                   | 6                      | 11                  | 50                   |
| E5C70040      | 4.0                   | 6                      | 13                  | 50                   |
| E5C70050      | 5.0                   | 6                      | 17                  | 55                   |
| E5C70060      | 6.0                   | 6                      | 17                  | 55                   |
| E5C70070      | 7.0                   | 8                      | 22                  | 65                   |
| E5C70080      | 8.0                   | 8                      | 22                  | 65                   |
| E5C70090      | 9.0                   | 10                     | 27                  | 70                   |
| E5C70100      | 10.0                  | 10                     | 27                  | 70                   |
| E5C70120      | 12.0                  | 12                     | 32                  | 80                   |
| E5C70140      | 14.0                  | 14                     | 37                  | 85                   |
| E5C70160      | 16.0                  | 16                     | 42                  | 100                  |
| E5C70180      | 18.0                  | 16                     | 48                  | 110                  |
| E5C70200      | 20.0                  | 20                     | 48                  | 110                  |

| 刃部公差<br>Mill Dia.<br>Tolerance(mm) | 柄部公差<br>Shank Dia.<br>Tolerance |
|------------------------------------|---------------------------------|
| 0~-0.02                            | h6                              |

| 碳钢            | 合金钢          | 预硬钢                | 硬化钢             |          | 高硬钢                  | 铜      | 石墨       | 铸铁        | 铝        | 不锈钢              | 钛        | 镍钴铁合金   |
|---------------|--------------|--------------------|-----------------|----------|----------------------|--------|----------|-----------|----------|------------------|----------|---------|
| Carbon Steels | Alloy Steels | Prehardened Steels | Hardened Steels |          | High Hardened Steels | Copper | Graphite | Cast Iron | Aluminum | Stainless Steels | Titanium | Inconel |
| ~HB225        | HB225~325    | HRC30~40           | HRc40~45        | HRc45~55 | HRc55~70             |        |          |           |          |                  |          |         |
|               |              |                    |                 |          |                      |        |          |           | ◎        |                  |          |         |

◎ : 优(Excellent) ○ : 良(Good)



# K-2 CARBIDE END MILLS

E5C71 SERIES

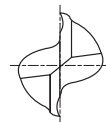
PLAIN SHANK

## 硬质合金, 2刃 45度螺旋角 中等长度

## CARBIDE, 2 FLUTE 45° HELIX MEDIUM LENGTH

- ▶ 适用铝及铝合金材质加工
- ▶ 其设计使振动最小化
- ▶ 镜面处理的切削刃可保证加工面的粗糙度
- ▶ 刃部直径公差高精密化

- ▶ Applied for aluminum and aluminum alloys.
- ▶ Designed to minimize vibration.
- ▶ Excellent surface roughness caused by Mirror Face of cutting edges.
- ▶ Precise tolerance of cutting diameters.

MG  
HM

2

45°

PLAIN



P.878

单位(Unit) : mm

| 型号<br>EDP No. | 刃部直径<br>Mill Diameter | 柄部直径<br>Shank Diameter | 刃长<br>Length of Cut | 全长<br>Overall Length |
|---------------|-----------------------|------------------------|---------------------|----------------------|
| E5C71040      | 4.0                   | 6                      | 16                  | 70                   |
| E5C71050      | 5.0                   | 6                      | 22                  | 70                   |
| E5C71060      | 6.0                   | 6                      | 22                  | 70                   |
| E5C71080      | 8.0                   | 8                      | 28                  | 80                   |
| E5C71100      | 10.0                  | 10                     | 32                  | 90                   |
| E5C71120      | 12.0                  | 12                     | 38                  | 95                   |
| E5C71160      | 16.0                  | 16                     | 52                  | 110                  |
| E5C71200      | 20.0                  | 20                     | 55                  | 110                  |

| 刃部公差<br>Mill Dia.<br>Tolerance(mm) | 柄部公差<br>Shank Dia.<br>Tolerance |
|------------------------------------|---------------------------------|
| 0~-0.02                            | h6                              |

◎ : 优(Excellent) ○ : 良(Good)

| 碳钢<br>Carbon Steels | 合金钢<br>Alloy Steels | 预硬钢<br>Prehardened Steels | 硬化钢<br>Hardened Steels | 高硬钢<br>High Hardened Steels | 铜<br>Copper | 石墨<br>Graphite | 铸铁<br>Cast Iron | 铝<br>Aluminum | 不锈钢<br>Stainless Steels | 钛<br>Titanium | 镍铬铁合金<br>Inconel |
|---------------------|---------------------|---------------------------|------------------------|-----------------------------|-------------|----------------|-----------------|---------------|-------------------------|---------------|------------------|
| ~HB225              | HB225~325           | HRc30~40                  | HRc40~45 HRc45~55      | HRc55~70                    |             |                |                 |               |                         |               |                  |
|                     |                     |                           |                        |                             |             |                |                 | ◎             |                         |               |                  |

**硬质合金, 3刃 45度螺旋角 短刃**  
**CARBIDE, 3 FLUTE 45° HELIX SHORT LENGTH**

- ▶ 适用铝及铝合金材质加工
- ▶ 其设计使振动最小化
- ▶ 镜面处理的切削刃可保证加工面的粗糙度
- ▶ 刃部直径公差高精密化

- ▶ Applied for aluminum and aluminum alloys.
- ▶ Designed to minimize vibration.
- ▶ Excellent surface roughness caused by Mirror Face of cutting edges.
- ▶ Precise tolerance of cutting diameters.



单位(Unit) : mm

| 型号<br>EDP No. | 刃部直径<br>Mill Diameter | 柄部直径<br>Shank Diameter | 刃长<br>Length of Cut | 全长<br>Overall Length |
|---------------|-----------------------|------------------------|---------------------|----------------------|
| E5C72010      | 1.0                   | 6                      | 3                   | 50                   |
| E5C72015      | 1.5                   | 6                      | 5                   | 50                   |
| E5C72020      | 2.0                   | 6                      | 6                   | 50                   |
| E5C72025      | 2.5                   | 6                      | 8                   | 50                   |
| E5C72030      | 3.0                   | 6                      | 11                  | 50                   |
| E5C72040      | 4.0                   | 6                      | 13                  | 50                   |
| E5C72050      | 5.0                   | 6                      | 17                  | 55                   |
| E5C72060      | 6.0                   | 6                      | 17                  | 55                   |
| E5C72070      | 7.0                   | 8                      | 22                  | 65                   |
| E5C72080      | 8.0                   | 8                      | 22                  | 65                   |
| E5C72090      | 9.0                   | 10                     | 27                  | 70                   |
| E5C72100      | 10.0                  | 10                     | 27                  | 70                   |
| E5C72120      | 12.0                  | 12                     | 32                  | 80                   |
| E5C72140      | 14.0                  | 14                     | 37                  | 85                   |
| E5C72160      | 16.0                  | 16                     | 42                  | 100                  |
| E5C72180      | 18.0                  | 16                     | 48                  | 110                  |
| E5C72200      | 20.0                  | 20                     | 48                  | 110                  |

| 刃部公差<br>Mill Dia.<br>Tolerance(mm) | 柄部公差<br>Shank Dia.<br>Tolerance |
|------------------------------------|---------------------------------|
| 0~-0.02                            | h6                              |

◎ : 优(Excellent)    ○ : 良(Good)

| 碳钢            | 合金钢          | 预硬钢                | 硬化钢             |          | 高硬钢                  | 铜      | 石墨       | 铸铁        | 铝        | 不锈钢              | 钛        | 镍钴铁合金   |
|---------------|--------------|--------------------|-----------------|----------|----------------------|--------|----------|-----------|----------|------------------|----------|---------|
| Carbon Steels | Alloy Steels | Prehardened Steels | Hardened Steels |          | High Hardened Steels | Copper | Graphite | Cast Iron | Aluminum | Stainless Steels | Titanium | Inconel |
| ~HB225        | HB225~325    | HRC30~40           | HRC40~45        | HRC45~55 | HRC55~70             |        |          |           |          |                  |          |         |
|               |              |                    |                 |          |                      |        |          |           | ◎        |                  |          |         |

CARBIDE

HSS

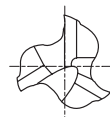
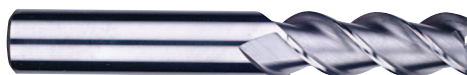

**K-2 CARBIDE  
END MILLS**
**E5C73 SERIES**

PLAIN SHANK

**硬质合金, 3刃 45度螺旋角 中等长度**
**CARBIDE, 3 FLUTE 45° HELIX MEDIUM LENGTH**

- ▶ 适用铝及铝合金材质加工
- ▶ 其设计使振动最小化
- ▶ 镜面处理的切削刃可保证加工面的粗糙度
- ▶ 刃部直径公差高精密化

- ▶ Applied for aluminum and aluminum alloys.
- ▶ Designed to minimize vibration.
- ▶ Excellent surface roughness caused by Mirror Face of cutting edges.
- ▶ Precise tolerance of cutting diameters.


**MG  
HM**
**3**
**45°**
**PLAIN**


P.879

单位(Unit) : mm

| 型号<br>EDP No.   | 刃部直径<br>Mill Diameter | 柄部直径<br>Shank Diameter | 刃长<br>Length of Cut | 全长<br>Overall Length |
|-----------------|-----------------------|------------------------|---------------------|----------------------|
| <b>E5C73040</b> | <b>4.0</b>            | 6                      | 16                  | 70                   |
| <b>E5C73050</b> | <b>5.0</b>            | 6                      | 22                  | 70                   |
| <b>E5C73060</b> | <b>6.0</b>            | 6                      | 22                  | 70                   |
| <b>E5C73080</b> | <b>8.0</b>            | 8                      | 28                  | 80                   |
| <b>E5C73100</b> | <b>10.0</b>           | 10                     | 32                  | 90                   |
| <b>E5C73120</b> | <b>12.0</b>           | 12                     | 38                  | 95                   |
| <b>E5C73160</b> | <b>16.0</b>           | 16                     | 52                  | 110                  |
| <b>E5C73200</b> | <b>20.0</b>           | 20                     | 55                  | 110                  |

| 刃部公差<br>Mill Dia.<br>Tolerance(mm) | 柄部公差<br>Shank Dia.<br>Tolerance |
|------------------------------------|---------------------------------|
| 0~-0.02                            | h6                              |

◎ : 优(Excellent) ○ : 良(Good)

| 碳钢<br>Carbon Steels | 合金钢<br>Alloy Steels | 预硬钢<br>Prehardened Steels | 硬化钢<br>Hardened Steels | 高硬钢<br>High Hardened Steels | 铜<br>Copper | 石墨<br>Graphite | 铸铁<br>Cast Iron | 铝<br>Aluminum | 不锈钢<br>Stainless Steels | 钛<br>Titanium | 镍铬铁合金<br>Inconel |
|---------------------|---------------------|---------------------------|------------------------|-----------------------------|-------------|----------------|-----------------|---------------|-------------------------|---------------|------------------|
| ~HB225              | HB225~325           | HRc30~40                  | HRc40~45 HRc45~55      | HRc55~70                    |             |                |                 |               |                         |               |                  |
|                     |                     |                           |                        |                             |             |                |                 | ◎             |                         |               |                  |

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**YG-1 CO., LTD.**

**硬质合金, 3刃 45度螺旋角 超长刃铣刀**  
**CARBIDE, 3 FLUTE 45° HELIX EX-LONG LENGTH**

- ▶ 适用铝及铝合金材质加工
- ▶ 其设计使振动最小化
- ▶ 镜面处理的切削刃可保证加工面的粗糙度
- ▶ 刃部直径公差高精密度
- ▶ Applied for aluminum and aluminum alloys.
- ▶ Designed to minimize vibration.
- ▶ Excellent surface roughness caused by Mirror Face of cutting edges.
- ▶ Precise tolerance of cutting diameters.



单位(Unit) : mm

| 型号<br>EDP No. | 刃部直径<br>Mill Diameter | 柄部直径<br>Shank Diameter | 刃长<br>Length of Cut | 全长<br>Overall Length |
|---------------|-----------------------|------------------------|---------------------|----------------------|
| E5C74030015   | 3.0                   | 6                      | 15                  | 65                   |
| E5C74030020   | 3.0                   | 6                      | 20                  | 70                   |
| E5C74030025   | 3.0                   | 6                      | 25                  | 75                   |
| E5C74040020   | 4.0                   | 6                      | 20                  | 70                   |
| E5C74040025   | 4.0                   | 6                      | 25                  | 75                   |
| E5C74040030   | 4.0                   | 6                      | 30                  | 80                   |
| E5C74050025   | 5.0                   | 6                      | 25                  | 70                   |
| E5C74050030   | 5.0                   | 6                      | 30                  | 75                   |
| E5C74050035   | 5.0                   | 6                      | 35                  | 80                   |
| E5C74050040   | 5.0                   | 6                      | 40                  | 85                   |
| E5C74060025   | 6.0                   | 6                      | 25                  | 70                   |
| E5C74060030   | 6.0                   | 6                      | 30                  | 75                   |
| E5C74060035   | 6.0                   | 6                      | 35                  | 80                   |
| E5C74060042   | 6.0                   | 6                      | 42                  | 90                   |
| E5C74080030   | 8.0                   | 8                      | 30                  | 80                   |
| E5C74080035   | 8.0                   | 8                      | 35                  | 85                   |
| E5C74080040   | 8.0                   | 8                      | 40                  | 90                   |
| E5C74080045   | 8.0                   | 8                      | 45                  | 95                   |
| E5C74080050   | 8.0                   | 8                      | 50                  | 100                  |
| E5C74080055   | 8.0                   | 8                      | 55                  | 105                  |
| E5C74100035   | 10.0                  | 10                     | 35                  | 90                   |
| E5C74100045   | 10.0                  | 10                     | 45                  | 100                  |
| E5C74100055   | 10.0                  | 10                     | 55                  | 110                  |
| E5C74100065   | 10.0                  | 10                     | 65                  | 120                  |
| E5C74120040   | 12.0                  | 12                     | 40                  | 95                   |
| E5C74120045   | 12.0                  | 12                     | 45                  | 100                  |
| E5C74120055   | 12.0                  | 12                     | 55                  | 110                  |
| E5C74120060   | 12.0                  | 12                     | 60                  | 110                  |
| E5C74120065   | 12.0                  | 12                     | 65                  | 120                  |
| E5C74120075   | 12.0                  | 12                     | 75                  | 135                  |

◎ : 优(Excellent) ○ : 良(Good)

| 碳钢            | 合金钢          | 预硬钢                | 硬化钢             |          | 高硬钢                  | 铜      | 石墨       | 铸铁        | 铝        | 不锈钢              | 钛        | 镍钛合金    |
|---------------|--------------|--------------------|-----------------|----------|----------------------|--------|----------|-----------|----------|------------------|----------|---------|
| Carbon Steels | Alloy Steels | Prehardened Steels | Hardened Steels |          | High Hardened Steels | Copper | Graphite | Cast Iron | Aluminum | Stainless Steels | Titanium | Inconel |
| ~HB225        | HB225~325    | HRC30~40           | HRc40~45        | HRc45~55 | HRC55~70             |        |          |           |          |                  |          |         |
|               |              |                    |                 |          |                      |        |          |           | ◎        |                  |          |         |


**硬质合金, 3刃 45度螺旋角 超长刃铣刀**
**CARBIDE, 3 FLUTE 45° HELIX EX-LONG LENGTH**

▶ 适用铝及铝合金材质加工

▶ 其设计使振动最小化

▶ 镜面处理的切削刃可保证加工面的粗糙度

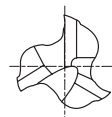
▶ 刃部直径公差精密化

▶ Applied for aluminum and aluminum alloys.

▶ Designed to minimize vibration.

▶ Excellent surface roughness caused by Mirror Face of cutting edges.

▶ Precise tolerance of cutting diameters.



P.880

单位(Unit) : mm

| 型号<br>EDP No. | 刃部直径<br>Mill Diameter | 柄部直径<br>Shank Diameter | 刃长<br>Length of Cut | 全长<br>Overall Length |
|---------------|-----------------------|------------------------|---------------------|----------------------|
| E5C74160055   | 16.0                  | 16                     | 55                  | 120                  |
| E5C74160065   | 16.0                  | 16                     | 65                  | 135                  |
| E5C74160075   | 16.0                  | 16                     | 75                  | 150                  |
| E5C74160085   | 16.0                  | 16                     | 85                  | 160                  |
| E5C74160095   | 16.0                  | 16                     | 95                  | 180                  |
| E5C74160105   | 16.0                  | 16                     | 105                 | 190                  |
| E5C74160115   | 16.0                  | 16                     | 115                 | 200                  |
| E5C74200055   | 20.0                  | 20                     | 55                  | 125                  |
| E5C74200065   | 20.0                  | 20                     | 65                  | 140                  |
| E5C74200075   | 20.0                  | 20                     | 75                  | 150                  |
| E5C74200085   | 20.0                  | 20                     | 85                  | 160                  |
| E5C74200095   | 20.0                  | 20                     | 95                  | 180                  |
| E5C74200105   | 20.0                  | 20                     | 105                 | 190                  |
| E5C74200115   | 20.0                  | 20                     | 115                 | 200                  |
| E5C74200125   | 20.0                  | 20                     | 125                 | 220                  |

| 刃部公差<br>Mill Dia.<br>Tolerance(mm) | 柄部公差<br>Shank Dia.<br>Tolerance |
|------------------------------------|---------------------------------|
| 0~-0.02                            | h6                              |

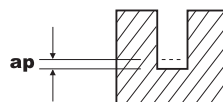
◎ : 优(Excellent) ○ : 良(Good)

| 碳钢<br>Carbon Steels | 合金钢<br>Alloy Steels | 预硬钢<br>Prehardened Steels | 硬化钢<br>Hardened Steels | 高硬钢<br>High Hardened Steels | 铜<br>Copper | 石墨<br>Graphite | 铸铁<br>Cast Iron | 铝<br>Aluminum | 不锈钢<br>Stainless Steels | 钛<br>Titanium | 镍铬铁合金<br>Inconel |
|---------------------|---------------------|---------------------------|------------------------|-----------------------------|-------------|----------------|-----------------|---------------|-------------------------|---------------|------------------|
| ~HB225              | HB225~325           | HRc30~40                  | HRc40~45 HRc45~55      | HRc55~70                    |             |                |                 |               |                         |               |                  |
|                     |                     |                           |                        |                             |             |                |                 | ◎             |                         |               |                  |

**硬质合金, 2刃 深孔加工  
CARBIDE, 2 FLUTE for RIB PROCESSING**
**G9B80 SERIES**

| 材质       | 非合金钢, 合金钢                          |         |             | 合金钢, 耐热钢                              |         |             |
|----------|------------------------------------|---------|-------------|---------------------------------------|---------|-------------|
| MATERIAL | NON-ALLOYED STEELS<br>ALLOY STEELS |         |             | ALLOY STEELS<br>HEAT RESISTANT STEELS |         |             |
| HARDNESS | ~ HRC30                            |         |             | HRC30 ~ HRC45                         |         |             |
| STRENGTH | ~ 1000N/mm <sup>2</sup>            |         |             | 1000 ~ 1500N/mm <sup>2</sup>          |         |             |
| DIAMETER | RPM                                | FEED    | ap (mm)     | RPM                                   | FEED    | ap (mm)     |
| 0.4      | 26500~34000                        | 170~370 | 0.007~0.018 | 19000~24000                           | 72~290  | 0.007~0.018 |
| 0.5      | 26500~34000                        | 170~370 | 0.009~0.022 | 19000~24000                           | 72~290  | 0.009~0.022 |
| 0.6      | 26500~34000                        | 210~485 | 0.011~0.026 | 19000~24000                           | 95~365  | 0.011~0.026 |
| 0.7      | 26500~34000                        | 210~485 | 0.012~0.031 | 19000~24000                           | 95~365  | 0.012~0.031 |
| 0.8      | 23000~30000                        | 240~535 | 0.014~0.035 | 16500~21000                           | 100~410 | 0.014~0.035 |
| 0.9      | 21500~27000                        | 240~610 | 0.030~0.060 | 15000~19000                           | 135~460 | 0.030~0.060 |
| 1.0      | 19000~24000                        | 240~690 | 0.045~0.090 | 13500~17000                           | 160~510 | 0.045~0.090 |
| 1.2      | 15500~19000                        | 240~765 | 0.055~0.100 | 11000~14000                           | 160~510 | 0.055~0.100 |
| 1.4      | 13600~17000                        | 240~765 | 0.062~0.125 | 9800~12000                            | 160~510 | 0.062~0.125 |
| 1.5      | 12500~15500                        | 240~765 | 0.070~0.135 | 8950~11500                            | 160~510 | 0.070~0.135 |
| 1.6      | 12000~15000                        | 240~765 | 0.075~0.145 | 8700~10900                            | 160~510 | 0.075~0.145 |
| 1.8      | 11000~14000                        | 240~765 | 0.080~0.160 | 7800~9800                             | 160~510 | 0.080~0.160 |
| 2.0      | 10000~12500                        | 240~765 | 0.090~0.180 | 7000~8950                             | 160~510 | 0.090~0.180 |
| 2.5      | 8000~10000                         | 240~765 | 0.112~0.235 | 5700~7200                             | 160~510 | 0.112~0.235 |
| 3.0      | 6800~8500                          | 240~765 | 0.135~0.270 | 4700~6000                             | 160~510 | 0.135~0.270 |
| 4.0      | 5100~6500                          | 240~765 | 0.180~0.360 | 3500~4500                             | 160~510 | 0.180~0.360 |

每一次的切削深度  
(Depth of Cut per one pass)



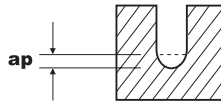
※ 对于长型和超长型进给量应该减少约50%。  
The FEED, in long & extra long types, should be reduced by around 50%.

RPM = rev./min. (转速/分钟)  
FEED = mm/min. (进给量)


**硬质合金, 2刃 球头 深孔加工**
**CARBIDE, 2 FLUTE BALL NOSE for RIB PROCESSING**
**G9B81 SERIES**

| 材质       | 非合金钢, 合金钢                          |         |             | 合金钢, 耐热钢                              |         |             |
|----------|------------------------------------|---------|-------------|---------------------------------------|---------|-------------|
| MATERIAL | NON-ALLOYED STEELS<br>ALLOY STEELS |         |             | ALLOY STEELS<br>HEAT RESISTANT STEELS |         |             |
| HARDNESS | ~ HRC30                            |         |             | HRC30 ~ HRC45                         |         |             |
| STRENGTH | ~ 1000N/mm <sup>2</sup>            |         |             | 1000 ~ 1500N/mm <sup>2</sup>          |         |             |
| DIAMETER | RPM                                | FEED    | ap (mm)     | RPM                                   | FEED    | ap (mm)     |
| R        | 26350~34000                        | 150~415 | 0.018~0.036 | 19100~24200                           | 75~230  | 0.018~0.036 |
|          | 26350~34000                        | 150~415 | 0.023~0.045 | 19100~24200                           | 75~230  | 0.023~0.045 |
|          | 26350~34000                        | 190~535 | 0.027~0.054 | 19100~24200                           | 95~300  | 0.027~0.054 |
|          | 26350~34000                        | 190~535 | 0.036~0.072 | 19100~24200                           | 95~300  | 0.036~0.072 |
|          | 24650~31000                        | 210~595 | 0.045~0.090 | 17400~22100                           | 105~330 | 0.045~0.090 |
|          | 20500~26000                        | 210~665 | 0.055~0.100 | 14500~18300                           | 105~330 | 0.055~0.100 |
|          | 18000~22000                        | 210~665 | 0.062~0.125 | 12800~15300                           | 105~330 | 0.062~0.125 |
|          | 16000~20500                        | 210~665 | 0.070~0.135 | 11500~14900                           | 105~330 | 0.070~0.135 |
|          | 15500~20000                        | 210~665 | 0.075~0.145 | 11200~14000                           | 105~330 | 0.075~0.145 |
|          | 14500~18200                        | 210~665 | 0.080~0.160 | 10200~12800                           | 105~330 | 0.080~0.160 |
|          | 13000~16000                        | 210~665 | 0.090~0.180 | 9400~11500                            | 105~330 | 0.090~0.180 |
|          | 9000~11000                         | 210~665 | 0.135~0.270 | 6000~11500                            | 105~330 | 0.135~0.270 |
|          | 7200~9350                          | 210~665 | 0.180~0.360 | 5000~6600                             | 105~330 | 0.180~0.360 |

每一次的切削深度  
(Depth of Cut per one pass)

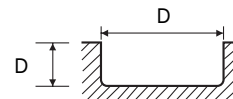
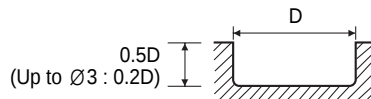


※ 对于长型和超长型进给量应该减少约50%。  
The FEED, in long & extra long types, should be reduced by around 50%.

RPM = rev./min. (转速/分钟)  
FEED = mm/min. (进给量)

**硬质合金, 2刃 圆鼻铣刀 精铣 - 开槽**  
**CARBIDE, 2 FLUTE CORNER RADIUS FINISH - SLOTTING**
**G9B82, G9B83 SERIES**

| 材质       | 非合金钢, 合金钢<br>工具钢                                  |      | 合金钢,<br>耐热钢                               |      | 不锈钢              |      | 铸铁        |      | 铝合金                |      | 铜,<br>非铁制金属                            |      |
|----------|---------------------------------------------------|------|-------------------------------------------|------|------------------|------|-----------|------|--------------------|------|----------------------------------------|------|
| MATERIAL | NON-ALLOYED STEELS<br>ALLOY STEELS<br>TOOL STEELS |      | ALLOY STEELS,<br>HEAT RESISTANT<br>STEELS |      | STAINLESS STEELS |      | CAST IRON |      | ALUMINUM<br>ALLOYS |      | COPPER, BRASS<br>NON-FERROUS<br>METALS |      |
| HARDNESS | ~ HRC 30                                          |      | HRC 30 ~ HRC 45                           |      |                  |      |           |      |                    |      |                                        |      |
| STRENGTH | ~1000N/mm <sup>2</sup>                            |      | 1000~1500N/mm <sup>2</sup>                |      |                  |      |           |      |                    |      |                                        |      |
| DIAMETER | RPM                                               | FEED | RPM                                       | FEED | RPM              | FEED | RPM       | FEED | RPM                | FEED | RPM                                    | FEED |
| 1.0      | 14300                                             | 105  | 8500                                      | 65   | 7150             | 50   | 18700     | 205  | 44000              | 330  | 24700                                  | 200  |
| 1.5      | 9350                                              | 150  | 5550                                      | 85   | 5600             | 80   | 12100     | 205  | 27500              | 385  | 20300                                  | 300  |
| 2.0      | 7850                                              | 160  | 5150                                      | 100  | 4300             | 80   | 9350      | 220  | 22000              | 460  | 16500                                  | 340  |
| 3.0      | 6100                                              | 180  | 3800                                      | 120  | 3150             | 100  | 6050      | 220  | 15400              | 460  | 11000                                  | 340  |
| 4.0      | 5150                                              | 255  | 3150                                      | 155  | 2650             | 130  | 4600      | 220  | 11000              | 460  | 8800                                   | 340  |
| 5.0      | 4300                                              | 270  | 2550                                      | 160  | 2150             | 135  | 3650      | 220  | 9150               | 460  | 6800                                   | 340  |
| 6.0      | 3800                                              | 300  | 2300                                      | 190  | 1950             | 155  | 2950      | 255  | 7600               | 485  | 5700                                   | 375  |
| 8.0      | 2850                                              | 325  | 1700                                      | 170  | 1450             | 155  | 2200      | 275  | 5700               | 485  | 4400                                   | 375  |
| 10.0     | 2200                                              | 280  | 1350                                      | 135  | 1150             | 135  | 1850      | 285  | 4600               | 485  | 3400                                   | 375  |
| 12.0     | 1850                                              | 240  | 1150                                      | 110  | 950              | 110  | 1450      | 295  | 3750               | 485  | 2850                                   | 375  |

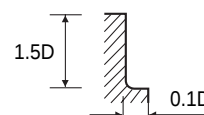


※ 对于长型和超长型进给量应该减少约50%。  
The FEED, in long & extra long types, should be reduced by around 50%.

RPM = rev./min. (转速/分钟)  
FEED = mm/min. (进给量)

**硬质合金, 4刃 圆鼻铣刀 精铣 - 侧铣**  
**CARBIDE, 4 FLUTE CORNER RADIUS FINISH - SIDE CUTTING**
**G9B84, G9B85 SERIES**

| 材质       | 非合金钢, 合金钢<br>工具钢                                  |      | 合金钢,<br>耐热钢                               |      | 不锈钢              |      | 铸铁        |      | 铝合金                |      | 铜,<br>非铁制金属                            |      |
|----------|---------------------------------------------------|------|-------------------------------------------|------|------------------|------|-----------|------|--------------------|------|----------------------------------------|------|
| MATERIAL | NON-ALLOYED STEELS<br>ALLOY STEELS<br>TOOL STEELS |      | ALLOY STEELS,<br>HEAT RESISTANT<br>STEELS |      | STAINLESS STEELS |      | CAST IRON |      | ALUMINUM<br>ALLOYS |      | COPPER, BRASS<br>NON-FERROUS<br>METALS |      |
| HARDNESS | ~ HRC 30                                          |      | HRC 30 ~ HRC 45                           |      |                  |      |           |      |                    |      |                                        |      |
| STRENGTH | ~1000N/mm <sup>2</sup>                            |      | 1000~1500N/mm <sup>2</sup>                |      |                  |      |           |      |                    |      |                                        |      |
| DIAMETER | RPM                                               | FEED | RPM                                       | FEED | RPM              | FEED | RPM       | FEED | RPM                | FEED | RPM                                    | FEED |
| 1.0      | 17600                                             | 150  | 10250                                     | 85   | 8650             | 75   | 18700     | 620  | 44000              | 1050 | 24700                                  | 605  |
| 1.5      | 11800                                             | 215  | 7050                                      | 115  | 7050             | 120  | 12100     | 620  | 27500              | 1160 | 20300                                  | 910  |
| 2.0      | 9850                                              | 240  | 6450                                      | 145  | 5350             | 120  | 9350      | 640  | 22000              | 1320 | 16500                                  | 1035 |
| 3.0      | 7600                                              | 270  | 4750                                      | 170  | 3950             | 145  | 6050      | 640  | 15400              | 1320 | 11000                                  | 1035 |
| 4.0      | 6450                                              | 485  | 3950                                      | 300  | 3300             | 240  | 4600      | 640  | 11000              | 1320 | 8800                                   | 1035 |
| 5.0      | 5350                                              | 510  | 3200                                      | 305  | 2700             | 255  | 3650      | 640  | 9150               | 1320 | 6800                                   | 1035 |
| 6.0      | 4750                                              | 560  | 2850                                      | 350  | 2400             | 280  | 2950      | 770  | 7600               | 1430 | 5700                                   | 1100 |
| 8.0      | 3550                                              | 605  | 2150                                      | 325  | 1800             | 300  | 2200      | 815  | 5700               | 1430 | 4400                                   | 1100 |
| 10.0     | 2750                                              | 520  | 1700                                      | 255  | 1450             | 255  | 1850      | 860  | 4600               | 1430 | 3400                                   | 1100 |
| 12.0     | 2350                                              | 440  | 1450                                      | 215  | 1150             | 205  | 1450      | 900  | 3750               | 1430 | 2850                                   | 1100 |

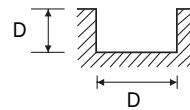
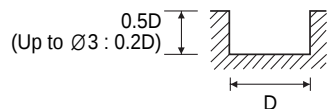


※ 对于长型和超长型进给量应该减少约50%。  
The FEED, in long & extra long types, should be reduced by around 50%.

RPM = rev./min. (转速/分钟)  
FEED = mm/min. (进给量)


**硬质合金, 2刃 精铣 - 开槽**
**CARBIDE, 2 FLUTE FINISH - SLOTTING**
**G9A23, G9B50 SERIES**

| 材质       | 非合金钢, 合金钢<br>工具钢                                  |      | 合金钢,<br>耐热钢                               |      | 不锈钢              |      | 铸铁        |      | 铝合金                |      | 铜,<br>非铁制金属                            |      |
|----------|---------------------------------------------------|------|-------------------------------------------|------|------------------|------|-----------|------|--------------------|------|----------------------------------------|------|
| MATERIAL | NON-ALLOYED STEELS<br>ALLOY STEELS<br>TOOL STEELS |      | ALLOY STEELS,<br>HEAT RESISTANT<br>STEELS |      | STAINLESS STEELS |      | CAST IRON |      | ALUMINUM<br>ALLOYS |      | COPPER, BRASS<br>NON-FERROUS<br>METALS |      |
| HARDNESS | ~ HRC 30                                          |      | HRC 30 ~ HRC 45                           |      |                  |      |           |      |                    |      |                                        |      |
| STRENGTH | ~1000N/mm <sup>2</sup>                            |      | 1000~1500N/mm <sup>2</sup>                |      |                  |      |           |      |                    |      |                                        |      |
| DIAMETER | RPM                                               | FEED | RPM                                       | FEED | RPM              | FEED | RPM       | FEED | RPM                | FEED | RPM                                    | FEED |
| 1.0      | 14300                                             | 105  | 8500                                      | 65   | 7150             | 50   | 18700     | 205  | 44000              | 330  | 24700                                  | 200  |
| 1.5      | 9350                                              | 150  | 5550                                      | 85   | 5600             | 80   | 12100     | 205  | 27500              | 385  | 20300                                  | 300  |
| 2.0      | 7850                                              | 160  | 5150                                      | 100  | 4300             | 80   | 9350      | 220  | 22000              | 460  | 16500                                  | 340  |
| 3.0      | 6100                                              | 180  | 3800                                      | 120  | 3150             | 100  | 6050      | 220  | 15400              | 460  | 11000                                  | 340  |
| 4.0      | 5150                                              | 255  | 3150                                      | 155  | 2650             | 130  | 4600      | 220  | 11000              | 460  | 8800                                   | 340  |
| 5.0      | 4300                                              | 270  | 2550                                      | 160  | 2150             | 135  | 3650      | 220  | 9150               | 460  | 6800                                   | 340  |
| 6.0      | 3800                                              | 300  | 2300                                      | 190  | 1950             | 155  | 2950      | 255  | 7600               | 485  | 5700                                   | 375  |
| 8.0      | 2850                                              | 325  | 1700                                      | 170  | 1450             | 155  | 2200      | 275  | 5700               | 485  | 4400                                   | 375  |
| 10.0     | 2200                                              | 280  | 1350                                      | 135  | 1150             | 135  | 1850      | 285  | 4600               | 485  | 3400                                   | 375  |
| 12.0     | 1850                                              | 240  | 1150                                      | 110  | 950              | 110  | 1450      | 295  | 3750               | 485  | 2850                                   | 375  |
| 14.0     | 1700                                              | 215  | 1050                                      | 100  | 850              | 100  | 1300      | 310  | 3300               | 485  | 2400                                   | 375  |
| 16.0     | 1500                                              | 185  | 950                                       | 95   | 700              | 95   | 1100      | 320  | 2850               | 485  | 2200                                   | 375  |
| 20.0     | 1150                                              | 145  | 700                                       | 70   | 550              | 70   | 900       | 340  | 2200               | 485  | 1700                                   | 375  |

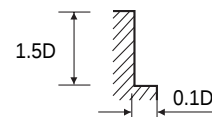
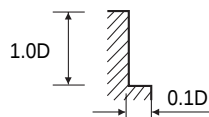


\* 对于长型和超长型进给量应该减少约50%。  
The FEED, in long & extra long types, should be reduced by around 50%.

RPM = rev./min. (转速/分钟)  
FEED = mm/min. (进给量)

**硬质合金, 4刃 精铣 - 侧铣  
CARBIDE, 4 FLUTE FINISH - SIDE CUTTING**
**G9A24, G9B51 SERIES**

| 材质       | 非合金钢, 合金钢<br>工具钢                                  |      | 合金钢,<br>耐热钢                               |      | 不锈钢              |      | 铸铁        |      | 铝合金                |      | 铜,<br>非铁制金属                            |      |
|----------|---------------------------------------------------|------|-------------------------------------------|------|------------------|------|-----------|------|--------------------|------|----------------------------------------|------|
| MATERIAL | NON-ALLOYED STEELS<br>ALLOY STEELS<br>TOOL STEELS |      | ALLOY STEELS,<br>HEAT RESISTANT<br>STEELS |      | STAINLESS STEELS |      | CAST IRON |      | ALUMINUM<br>ALLOYS |      | COPPER, BRASS<br>NON-FERROUS<br>METALS |      |
| HARDNESS | ~ HRC 30                                          |      | HRC 30 ~ HRC 45                           |      |                  |      |           |      |                    |      |                                        |      |
| STRENGTH | ~1000N/mm <sup>2</sup>                            |      | 1000~1500N/mm <sup>2</sup>                |      |                  |      |           |      |                    |      |                                        |      |
| DIAMETER | RPM                                               | FEED | RPM                                       | FEED | RPM              | FEED | RPM       | FEED | RPM                | FEED | RPM                                    | FEED |
| 1.0      | 17600                                             | 150  | 10250                                     | 85   | 8650             | 75   | 18700     | 620  | 44000              | 1050 | 24700                                  | 605  |
| 1.5      | 11800                                             | 215  | 7050                                      | 115  | 7050             | 120  | 12100     | 620  | 27500              | 1160 | 20300                                  | 910  |
| 2.0      | 9850                                              | 240  | 6450                                      | 145  | 5350             | 120  | 9350      | 640  | 22000              | 1320 | 16500                                  | 1035 |
| 3.0      | 7600                                              | 270  | 4750                                      | 170  | 3950             | 145  | 6050      | 640  | 15400              | 1320 | 11000                                  | 1035 |
| 4.0      | 6450                                              | 485  | 3950                                      | 300  | 3300             | 240  | 4600      | 640  | 11000              | 1320 | 8800                                   | 1035 |
| 5.0      | 5350                                              | 510  | 3200                                      | 305  | 2700             | 255  | 3650      | 640  | 9150               | 1320 | 6800                                   | 1035 |
| 6.0      | 4750                                              | 560  | 2850                                      | 350  | 2400             | 280  | 2950      | 770  | 7600               | 1430 | 5700                                   | 1100 |
| 8.0      | 3550                                              | 605  | 2150                                      | 325  | 1800             | 300  | 2200      | 815  | 5700               | 1430 | 4400                                   | 1100 |
| 10.0     | 2750                                              | 520  | 1700                                      | 255  | 1450             | 255  | 1850      | 860  | 4600               | 1430 | 3400                                   | 1100 |
| 12.0     | 2350                                              | 440  | 1450                                      | 215  | 1150             | 205  | 1450      | 900  | 3750               | 1430 | 2850                                   | 1100 |
| 14.0     | 2100                                              | 395  | 1300                                      | 195  | 1050             | 190  | 1300      | 945  | 3300               | 1430 | 2400                                   | 1100 |
| 16.0     | 1850                                              | 350  | 1150                                      | 170  | 950              | 170  | 1100      | 970  | 2850               | 1430 | 2200                                   | 1100 |
| 20.0     | 1450                                              | 270  | 900                                       | 135  | 700              | 130  | 900       | 1035 | 2200               | 1430 | 1700                                   | 1100 |



※ 对于长型和超长型进给量应该减少约50%。  
The FEED, in long & extra long types, should be reduced by around 50%.

RPM = rev./min. (转速/分钟)  
FEED = mm/min. (进给量)

CBN  
END MILLSi-Xmill  
END MILLSX5070  
END MILLSX-POWER  
END MILLSJET-POWER  
END MILLSV7 Mill INOX  
END MILLSV7 Mill STEEL  
END MILLSALU-POWER  
END MILLS

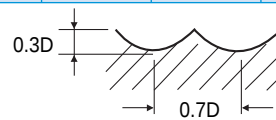
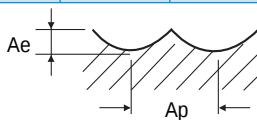
CRX S

D-POWER  
END MILLSK-2 CARBIDE  
END MILLSGENERAL  
CARBIDE  
END MILLSTANK-POWER  
END MILLSGENERAL  
HSS  
END MILLSMILLING  
CUTTERSTECHNICAL  
DATA


**硬质合金, 2刃 球头**
**CARBIDE, 2 FLUTE BALL NOSE**
**G9A25, G9B52, EMC56 SERIES**

| 材质           | 碳钢, 合金钢, 铸铁                                  |      | 碳钢, 合金钢, 铸铁                                  |      | 硬化钢                   |      | 铸铁        |      | 铝合金             |      |
|--------------|----------------------------------------------|------|----------------------------------------------|------|-----------------------|------|-----------|------|-----------------|------|
| MATERIAL     | CARBON STEELS<br>ALLOY STEELS<br>TOOL STEELS |      | CARBON STEELS<br>ALLOY STEELS<br>TOOL STEELS |      | HARDENED STEELS       |      | CAST IRON |      | ALUMINUM ALLOYS |      |
| HARDNESS     | ~ HRC30                                      |      | HRC30 ~ HRC45                                |      | HRC45 ~ HRC50         |      |           |      |                 |      |
| STRENGTH     | ~ 1000N/mm <sup>2</sup>                      |      | 1000 ~ 1500N/mm <sup>2</sup>                 |      | 1500N/mm <sup>2</sup> |      |           |      |                 |      |
| DIAMETER     | RPM                                          | FEED | RPM                                          | FEED | RPM                   | FEED | RPM       | FEED | RPM             | FEED |
| R1.0 × 2.0   | 12350                                        | 640  | 9150                                         | 415  | 4000                  | 125  | 10500     | 220  | 30800           | 395  |
| R1.5 × 3.0   | 11400                                        | 575  | 8550                                         | 390  | 3800                  | 125  | 7050      | 230  | 20500           | 395  |
| R2.0 × 4.0   | 8950                                         | 630  | 7150                                         | 450  | 3600                  | 150  | 5150      | 285  | 15400           | 395  |
| R2.5 × 5.0   | 7800                                         | 700  | 6200                                         | 490  | 3100                  | 150  | 4150      | 330  | 12100           | 470  |
| R3.0 × 6.0   | 7250                                         | 870  | 5900                                         | 705  | 2700                  | 160  | 3400      | 360  | 10300           | 470  |
| R4.0 × 8.0   | 6100                                         | 1090 | 4900                                         | 785  | 2050                  | 190  | 2500      | 460  | 7900            | 540  |
| R5.0 × 10.0  | 5450                                         | 1330 | 4350                                         | 870  | 1750                  | 190  | 2050      | 460  | 6150            | 540  |
| R6.0 × 12.0  | 4990                                         | 1500 | 3950                                         | 950  | 1500                  | 210  | 1750      | 460  | 5150            | 630  |
| R7.0 × 14.0  | 4530                                         | 1495 | 3600                                         | 925  | 1300                  | 210  | 1400      | 460  | 4300            | 630  |
| R8.0 × 16.0  | 4085                                         | 1470 | 3200                                         | 905  | 1150                  | 210  | 1300      | 460  | 3850            | 540  |
| R9.0 × 18.0  | 3800                                         | 1425 | 3000                                         | 890  | 1050                  | 210  | 1100      | 460  | 3400            | 540  |
| R10.0 × 20.0 | 3550                                         | 1425 | 2800                                         | 885  | 950                   | 210  | 1050      | 420  | 2950            | 540  |

Ae : D1~D6=0.2mm  
D8~D20=0.3mm  
Ap : 0.2D



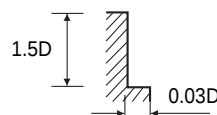
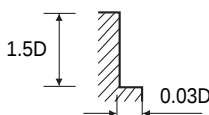
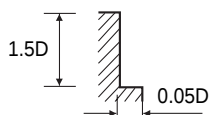
※ 对于长型和超长型进给量应该减少约50%.

The FEED, in long & extra long types, should be reduced by around 50%.

RPM = rev./min. (转速/分钟)  
FEED = mm/min. (进给量)

**硬质合金, 4&6刃 45度螺旋角**
**CARBIDE, 4&6 FLUTE 45° HELIX**
**EMC57, EMC58 SERIES**

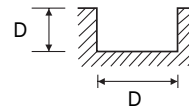
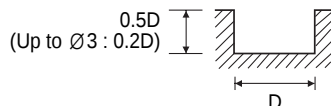
| 材质       | 非合金钢, 合金钢, 铸铁                                   |      | 合金钢, 耐热钢                             |      | 硬化钢                          |      | 硬化钢                     |      |
|----------|-------------------------------------------------|------|--------------------------------------|------|------------------------------|------|-------------------------|------|
| MATERIAL | NON-ALLOYED STEELS<br>ALLOY STEELS<br>CAST IRON |      | ALLOY STEEL<br>HEAT RESISTANT STEELS |      | HARDENED STEELS              |      | HARDENED STEELS         |      |
| HARDNESS | ~ HRC30                                         |      | HRC30 ~ HRC50                        |      | HRC50 ~ HRC60                |      | HRC60 ~ HRC65           |      |
| STRENGTH | ~ 1000N/mm <sup>2</sup>                         |      | 1000 ~ 1750N/mm <sup>2</sup>         |      | 1750 ~ 2080N/mm <sup>2</sup> |      | 2080N/mm <sup>2</sup> ~ |      |
| DIAMETER | RPM                                             | FEED | RPM                                  | FEED | RPM                          | FEED | RPM                     | FEED |
| 1.0      | 19000                                           | 693  | 12750                                | 468  | 10250                        | 284  | 8000                    | 179  |
| 2.0      | 13000                                           | 825  | 8750                                 | 555  | 7250                         | 344  | 5500                    | 212  |
| 3.0      | 8650                                            | 825  | 5750                                 | 555  | 4750                         | 344  | 3750                    | 212  |
| 4.0      | 6600                                            | 858  | 4400                                 | 581  | 3600                         | 357  | 2800                    | 221  |
| 5.0      | 6250                                            | 990  | 4150                                 | 660  | 3200                         | 383  | 2550                    | 245  |
| 6.0      | 5175                                            | 924  | 3450                                 | 627  | 2650                         | 369  | 2100                    | 231  |
| 8.0      | 3900                                            | 891  | 2600                                 | 594  | 2000                         | 344  | 1600                    | 218  |
| 10.0     | 3075                                            | 831  | 2050                                 | 555  | 1600                         | 317  | 1275                    | 204  |
| 12.0     | 2625                                            | 831  | 1750                                 | 555  | 1825                         | 317  | 1050                    | 198  |
| 16.0     | 1950                                            | 726  | 1300                                 | 482  | 1000                         | 278  | 800                     | 179  |
| 20.0     | 1550                                            | 641  | 1025                                 | 429  | 800                          | 251  | 650                     | 165  |



RPM = rev./min. (转速/分钟)  
FEED = mm/min. (进给量)

**硬质合金, 2刃 精铣 - 开槽  
CARBIDE, 2 FLUTE FINISH - SLOTTING**
**EMC52, EMC53 SERIES**

| 材质       | 碳钢, 合金钢, 工具钢                                   |      | 合金钢, 预硬度钢                            |      | 不锈钢              |      | 铸铁        |      | 铝合金             |      |
|----------|------------------------------------------------|------|--------------------------------------|------|------------------|------|-----------|------|-----------------|------|
| MATERIAL | CARBON STEELS,<br>ALLOY STEELS,<br>TOOL STEELS |      | ALLOY STEELS,<br>PRE-HARDENED STEELS |      | STAINLESS STEELS |      | CAST IRON |      | ALUMINUM ALLOYS |      |
| HARDNESS | ~ HRC30                                        |      | HRC30 ~ HRC50                        |      |                  |      |           |      |                 |      |
| DIAMETER | RPM                                            | FEED | RPM                                  | FEED | RPM              | FEED | RPM       | FEED | RPM             | FEED |
| 1.0      | 14300                                          | 105  | 8500                                 | 65   | 7150             | 50   | 18700     | 205  | 44000           | 330  |
| 1.5      | 9350                                           | 150  | 5550                                 | 85   | 5600             | 80   | 12100     | 205  | 27500           | 385  |
| 2.0      | 7850                                           | 160  | 5150                                 | 100  | 4300             | 80   | 9350      | 220  | 22000           | 460  |
| 3.0      | 6100                                           | 180  | 3800                                 | 120  | 3150             | 100  | 6050      | 220  | 15400           | 460  |
| 4.0      | 5150                                           | 255  | 3150                                 | 155  | 2650             | 130  | 4600      | 220  | 11000           | 460  |
| 5.0      | 4300                                           | 270  | 2550                                 | 160  | 2150             | 135  | 3650      | 220  | 9150            | 460  |
| 6.0      | 3800                                           | 300  | 2300                                 | 190  | 1950             | 155  | 2950      | 255  | 7600            | 485  |
| 8.0      | 2850                                           | 325  | 1700                                 | 170  | 1450             | 155  | 2200      | 275  | 5700            | 485  |
| 10.0     | 2200                                           | 280  | 1350                                 | 135  | 1150             | 135  | 1850      | 285  | 4600            | 485  |
| 12.0     | 1850                                           | 240  | 1150                                 | 110  | 950              | 110  | 1450      | 295  | 3750            | 485  |
| 14.0     | 1700                                           | 215  | 1050                                 | 100  | 850              | 100  | 1300      | 310  | 3300            | 485  |
| 16.0     | 1500                                           | 185  | 950                                  | 95   | 700              | 95   | 1100      | 320  | 2850            | 485  |
| 20.0     | 1150                                           | 145  | 700                                  | 70   | 550              | 70   | 900       | 340  | 2200            | 485  |

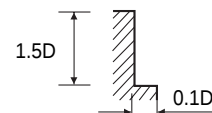
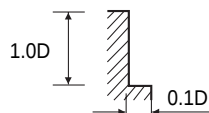


※ 对于长型和超长型进给量应该减少约50%。  
The FEED, in long & extra long types, should be reduced by around 50%.

RPM = rev./min. (转速/分钟)  
FEED = mm/min. (进给量)

**硬质合金, 4刃 精铣 - 侧铣  
CARBIDE, 4 FLUTE FINISH - SLOTTING**
**EMC54, EMC55 SERIES**

| 材质       | 碳钢, 合金钢, 工具钢                                   |      | 合金钢, 预硬度钢                            |      | 不锈钢              |      | 铸铁        |      | 铝合金             |      |
|----------|------------------------------------------------|------|--------------------------------------|------|------------------|------|-----------|------|-----------------|------|
| MATERIAL | CARBON STEELS,<br>ALLOY STEELS,<br>TOOL STEELS |      | ALLOY STEELS,<br>PRE-HARDENED STEELS |      | STAINLESS STEELS |      | CAST IRON |      | ALUMINUM ALLOYS |      |
| HARDNESS | ~ HRC30                                        |      | HRC30 ~ HRC50                        |      |                  |      |           |      |                 |      |
| DIAMETER | RPM                                            | FEED | RPM                                  | FEED | RPM              | FEED | RPM       | FEED | RPM             | FEED |
| 1.0      | 17600                                          | 150  | 10250                                | 85   | 8650             | 75   | 18700     | 620  | 44000           | 1050 |
| 1.5      | 11800                                          | 215  | 7050                                 | 115  | 7050             | 120  | 12100     | 620  | 27500           | 1160 |
| 2.0      | 9850                                           | 240  | 6450                                 | 145  | 5350             | 120  | 9350      | 640  | 22000           | 1320 |
| 3.0      | 7600                                           | 270  | 4750                                 | 170  | 3950             | 145  | 6050      | 640  | 15400           | 1320 |
| 4.0      | 6450                                           | 485  | 3950                                 | 300  | 3300             | 240  | 4600      | 640  | 11000           | 1320 |
| 5.0      | 5350                                           | 510  | 3200                                 | 305  | 2700             | 255  | 3650      | 640  | 9150            | 1320 |
| 6.0      | 4750                                           | 560  | 2850                                 | 350  | 2400             | 280  | 2950      | 770  | 7600            | 1430 |
| 8.0      | 3550                                           | 605  | 2150                                 | 325  | 1800             | 300  | 2200      | 815  | 5700            | 1430 |
| 10.0     | 2750                                           | 520  | 1700                                 | 255  | 1450             | 255  | 1850      | 860  | 4600            | 1430 |
| 12.0     | 2350                                           | 440  | 1450                                 | 215  | 1150             | 205  | 1450      | 900  | 3750            | 1430 |
| 14.0     | 2100                                           | 395  | 1300                                 | 195  | 1050             | 190  | 1300      | 945  | 3300            | 1430 |
| 16.0     | 1850                                           | 350  | 1150                                 | 170  | 950              | 170  | 1100      | 970  | 2850            | 1430 |
| 20.0     | 1450                                           | 270  | 900                                  | 135  | 700              | 130  | 900       | 1035 | 2200            | 1430 |



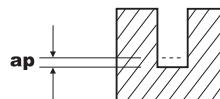
※ 对于长型和超长型进给量应该减少约50%。  
The FEED, in long & extra long types, should be reduced by around 50%.

RPM = rev./min. (转速/分钟)  
FEED = mm/min. (进给量)


**硬质合金, 2刃 颈部加长型**  
**CARBIDE, 2 FLUTE LONG NECK**
**EMC59** SERIES

| 材质       | 非合金钢, 合金钢, 铸铁                                   |         |             | 合金钢, 耐热钢                              |         |             | 硬化钢                          |        |             |
|----------|-------------------------------------------------|---------|-------------|---------------------------------------|---------|-------------|------------------------------|--------|-------------|
| MATERIAL | NON-ALLOYED STEELS<br>ALLOY STEELS<br>CAST IRON |         |             | ALLOY STEELS<br>HEAT RESISTANT STEELS |         |             | HARDENED STEELS              |        |             |
| HARDNESS | ~ HRC30                                         |         |             | HRC30 ~ HRC45                         |         |             | HRC45 ~ HRC55                |        |             |
| STRENGTH | ~ 1000N/mm <sup>2</sup>                         |         |             | 1000 ~ 1500N/mm <sup>2</sup>          |         |             | 1500 ~ 2000N/mm <sup>2</sup> |        |             |
| DIAMETER | RPM                                             | FEED    | ap (mm)     | RPM                                   | FEED    | ap (mm)     | RPM                          | FEED   | ap (mm)     |
| 0.4      | 29700~37800                                     | 200~440 | 0.007~0.018 | 21600~27000                           | 90~340  | 0.007~0.018 | 13500~16200                  | 30~90  | 0.004~0.008 |
| 0.5      | 29700~37800                                     | 200~440 | 0.009~0.022 | 21600~27000                           | 90~340  | 0.009~0.022 | 13500~16200                  | 30~90  | 0.004~0.009 |
| 0.6      | 29700~37800                                     | 250~570 | 0.011~0.026 | 21600~27000                           | 110~440 | 0.011~0.026 | 13500~16200                  | 40~110 | 0.005~0.011 |
| 0.7      | 29700~37800                                     | 250~570 | 0.012~0.031 | 21600~27000                           | 110~440 | 0.012~0.031 | 13500~16200                  | 40~110 | 0.006~0.013 |
| 0.8      | 25650~33300                                     | 280~630 | 0.014~0.035 | 18450~23400                           | 120~480 | 0.014~0.035 | 11700~13950                  | 45~130 | 0.007~0.015 |
| 0.9      | 23400~29700                                     | 280~720 | 0.030~0.060 | 17100~21600                           | 160~540 | 0.030~0.060 | 10350~12150                  | 50~130 | 0.008~0.016 |
| 1.0      | 21600~27000                                     | 280~810 | 0.045~0.090 | 14850~18900                           | 190~590 | 0.045~0.090 | 9450~12150                   | 70~130 | 0.009~0.018 |
| 1.2      | 17550~21600                                     | 280~890 | 0.055~0.100 | 12600~15300                           | 190~590 | 0.055~0.100 | 8100~9900                    | 70~130 | 0.010~0.022 |
| 1.4      | 15300~18900                                     | 280~890 | 0.062~0.125 | 10800~13500                           | 190~590 | 0.062~0.125 | 6750~8550                    | 70~130 | 0.012~0.025 |
| 1.5      | 13950~18000                                     | 280~890 | 0.070~0.135 | 9900~13050                            | 190~590 | 0.070~0.135 | 6300~7650                    | 70~130 | 0.014~0.028 |
| 1.6      | 13500~17100                                     | 280~890 | 0.075~0.145 | 9900~12150                            | 190~590 | 0.075~0.145 | 5850~7650                    | 70~130 | 0.015~0.030 |
| 1.8      | 12600~16200                                     | 280~890 | 0.080~0.160 | 9000~10800                            | 190~590 | 0.080~0.160 | 5400~6750                    | 70~130 | 0.016~0.032 |
| 2.0      | 11250~13950                                     | 280~890 | 0.090~0.180 | 8100~9900                             | 190~590 | 0.090~0.180 | 4950~6300                    | 70~130 | 0.018~0.035 |
| 2.5      | 9000~11700                                      | 280~890 | 0.112~0.235 | 6300~8100                             | 190~590 | 0.112~0.235 | 4050~4950                    | 70~130 | 0.022~0.045 |
| 3.0      | 7650~9450                                       | 280~890 | 0.135~0.270 | 5400~6750                             | 190~590 | 0.135~0.270 | 3150~4050                    | 70~130 | 0.028~0.055 |
| 2.0      | 5850~7200                                       | 280~890 | 0.180~0.360 | 4050~4950                             | 190~590 | 0.180~0.360 | 2430~3150                    | 70~130 | 0.036~0.072 |
| 5.0      | 4500~5850                                       | 280~890 | 0.225~0.450 | 3150~4050                             | 190~590 | 0.225~0.450 | 1980~2520                    | 70~130 | 0.045~0.090 |
| 6.0      | 4500~4950                                       | 280~890 | 0.270~0.540 | 2700~3600                             | 190~590 | 0.270~0.540 | 1800~2700                    | 70~130 | 0.054~0.108 |

每一次的切削深度  
(Depth of Cut per one pass)



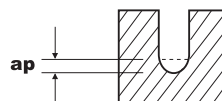
RPM = rev./min. (转速/分钟)  
FEED = mm/min. (进给量)

## 硬质合金, 2刃 颈部长型 球头 CARBIDE, 2 FLUTE LONG NECK BALL NOSE

### EMC60 SERIES

| 材质          | 非合金钢, 合金钢, 铸铁                                   |         |             | 合金钢, 耐热钢                              |         |             | 硬化钢                          |         |             |
|-------------|-------------------------------------------------|---------|-------------|---------------------------------------|---------|-------------|------------------------------|---------|-------------|
| MATERIAL    | NON-ALLOYED STEELS<br>ALLOY STEELS<br>CAST IRON |         |             | ALLOY STEELS<br>HEAT RESISTANT STEELS |         |             | HARDENED STEELS              |         |             |
| HARDNESS    | ~ HRC30                                         |         |             | HRC30 ~ HRC45                         |         |             | HRC45 ~ HRC55                |         |             |
| STRENGTH    | ~ 1000N/mm <sup>2</sup>                         |         |             | 1000 ~ 1500N/mm <sup>2</sup>          |         |             | 1500 ~ 2000N/mm <sup>2</sup> |         |             |
| DIAMETER    | RPM                                             | FEED    | ap (mm)     | RPM                                   | FEED    | ap (mm)     | RPM                          | FEED    | ap (mm)     |
| R0.2 × 0.4  | 29700~37800                                     | 180~490 | 0.018~0.036 | 21600~27000                           | 90~270  | 0.018~0.036 | 13500~17100                  | 90~180  | 0.004~0.007 |
| R0.25 × 0.5 | 29700~37800                                     | 180~490 | 0.023~0.045 | 21600~27000                           | 90~270  | 0.023~0.045 | 13500~17100                  | 90~180  | 0.005~0.009 |
| R0.3 × 0.6  | 29700~37800                                     | 225~630 | 0.027~0.054 | 21600~27000                           | 110~350 | 0.027~0.054 | 13500~17100                  | 110~225 | 0.005~0.011 |
| R0.4 × 0.8  | 29700~37800                                     | 225~630 | 0.036~0.072 | 21600~27000                           | 110~350 | 0.036~0.072 | 13500~17100                  | 110~225 | 0.007~0.014 |
| R0.5 × 1.0  | 27000~34200                                     | 250~690 | 0.045~0.090 | 19800~24300                           | 130~390 | 0.045~0.090 | 12150~15750                  | 130~250 | 0.009~0.018 |
| R0.6 × 1.2  | 22500~28800                                     | 250~770 | 0.055~0.100 | 16200~20700                           | 130~390 | 0.055~0.100 | 10350~13050                  | 130~250 | 0.010~0.022 |
| R0.7 × 1.4  | 19800~24300                                     | 250~770 | 0.062~0.125 | 14400~17100                           | 130~390 | 0.062~0.125 | 9000~11250                   | 130~250 | 0.012~0.025 |
| R0.75 × 1.5 | 18000~22500                                     | 250~770 | 0.070~0.135 | 13050~16650                           | 130~390 | 0.070~0.135 | 8550~10350                   | 130~250 | 0.014~0.028 |
| R0.8 × 1.6  | 17100~22500                                     | 250~770 | 0.075~0.145 | 12600~15750                           | 130~390 | 0.075~0.145 | 8100~9900                    | 130~250 | 0.015~0.030 |
| R0.9 × 1.8  | 16200~20700                                     | 250~770 | 0.080~0.160 | 11250~14400                           | 130~390 | 0.080~0.160 | 7200~9000                    | 130~250 | 0.016~0.032 |
| R1.0 × 2.0  | 14400~18000                                     | 250~770 | 0.090~0.180 | 10350~13050                           | 130~390 | 0.090~0.180 | 6750~8100                    | 130~250 | 0.018~0.035 |
| R1.5 × 3.0  | 9900~12600                                      | 250~770 | 0.135~0.270 | 6750~8550                             | 130~390 | 0.135~0.270 | 4500~5400                    | 130~250 | 0.028~0.055 |
| R2.0 × 4.0  | 8100~10800                                      | 250~770 | 0.180~0.360 | 5490~7380                             | 130~390 | 0.180~0.360 | 3600~4500                    | 130~250 | 0.035~0.070 |
| R2.5 × 5.0  | 6300~8100                                       | 250~770 | 0.225~0.450 | 4500~5850                             | 130~390 | 0.225~0.450 | 2930~3690                    | 130~250 | 0.044~0.088 |
| R3.0 × 6.0  | 5400~7200                                       | 250~770 | 0.270~0.540 | 3600~4950                             | 130~390 | 0.270~0.540 | 2250~3150                    | 130~250 | 0.053~0.105 |

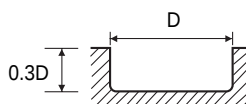
每一次的切削深度  
(Depth of Cut per one pass)



RPM = rev./min. (转速/分钟)  
FEED = mm/min. (进给量)


**硬质合金, 2刃 圆鼻铣刀 - 开槽**
**CARBIDE, 2 FLUTE CORNER RADIUS - SLOTTING**
**EMC61 SERIES**

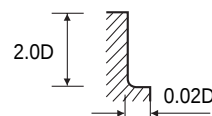
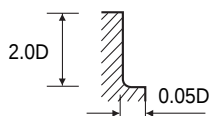
| 材质       | 非合金钢, 合金钢, 铸铁                                   |      | 合金钢, 耐热钢                              |      | 硬化钢                          |      |
|----------|-------------------------------------------------|------|---------------------------------------|------|------------------------------|------|
| MATERIAL | NON-ALLOYED STEELS<br>ALLOY STEELS<br>CAST IRON |      | ALLOY STEELS<br>HEAT RESISTANT STEELS |      | HARDENED STEELS              |      |
| HARDNESS | ~ HRC30                                         |      | HRC30 ~ HRC45                         |      | HRC45 ~ HRC55                |      |
| STRENGTH | ~ 1000N/mm <sup>2</sup>                         |      | 1000 ~ 1500N/mm <sup>2</sup>          |      | 1500 ~ 2000N/mm <sup>2</sup> |      |
| DIAMETER | RPM                                             | FEED | RPM                                   | FEED | RPM                          | FEED |
| 3.0      | 6255                                            | 140  | 4050                                  | 70   | 2970                         | 50   |
| 4.0      | 5040                                            | 180  | 3240                                  | 90   | 2430                         | 50   |
| 5.0      | 4320                                            | 220  | 2745                                  | 100  | 2115                         | 70   |
| 6.0      | 3735                                            | 260  | 2385                                  | 130  | 1845                         | 80   |
| 8.0      | 2835                                            | 190  | 1800                                  | 130  | 1440                         | 80   |
| 10.0     | 1935                                            | 225  | 1530                                  | 130  | 1125                         | 80   |
| 12.0     | 1620                                            | 180  | 1350                                  | 120  | 945                          | 70   |
| 16.0     | 1620                                            | 190  | 990                                   | 90   | 670                          | 50   |
| 20.0     | 1170                                            | 140  | 770                                   | 60   | 560                          | 40   |



RPM = rev./min. (转速/分钟)  
FEED = mm/min. (进给量)

**硬质合金, 2刃 圆鼻铣刀 - 侧铣**
**CARBIDE, 2 FLUTE CORNER RADIUS - SIDE CUTTING**
**EMC61 SERIES**

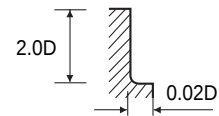
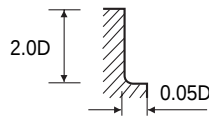
| 材质       | 非合金钢, 合金钢, 铸铁                                   |      | 合金钢, 耐热钢                              |      | 硬化钢                          |      |
|----------|-------------------------------------------------|------|---------------------------------------|------|------------------------------|------|
| MATERIAL | NON-ALLOYED STEELS<br>ALLOY STEELS<br>CAST IRON |      | ALLOY STEELS<br>HEAT RESISTANT STEELS |      | HARDENED STEELS              |      |
| HARDNESS | ~ HRC30                                         |      | HRC30 ~ HRC45                         |      | HRC45 ~ HRC55                |      |
| STRENGTH | ~ 1000N/mm <sup>2</sup>                         |      | 1000 ~ 1500N/mm <sup>2</sup>          |      | 1500 ~ 2000N/mm <sup>2</sup> |      |
| DIAMETER | RPM                                             | FEED | RPM                                   | FEED | RPM                          | FEED |
| 3.0      | 6255                                            | 180  | 4050                                  | 135  | 2970                         | 90   |
| 4.0      | 5040                                            | 220  | 3240                                  | 150  | 2430                         | 95   |
| 5.0      | 4320                                            | 225  | 2745                                  | 190  | 2115                         | 110  |
| 6.0      | 3735                                            | 225  | 2385                                  | 190  | 1845                         | 110  |
| 8.0      | 2835                                            | 240  | 1800                                  | 190  | 1440                         | 110  |
| 10.0     | 1935                                            | 240  | 1530                                  | 190  | 1125                         | 110  |
| 12.0     | 1620                                            | 190  | 1350                                  | 170  | 945                          | 95   |
| 16.0     | 1620                                            | 170  | 990                                   | 125  | 760                          | 80   |
| 20.0     | 1170                                            | 120  | 770                                   | 95   | 560                          | 60   |



RPM = rev./min. (转速/分钟)  
FEED = mm/min. (进给量)

**硬质合金, 4刃 圆鼻铣刀  
CARBIDE, 4 FLUTE CORNER RADIUS**
**EMC62 SERIES**

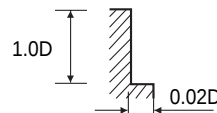
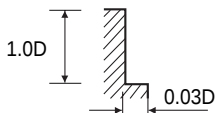
| 材质       | 非合金钢, 合金钢, 铸铁                                   |      | 合金钢, 耐热钢                              |      | 硬化钢                          |      |
|----------|-------------------------------------------------|------|---------------------------------------|------|------------------------------|------|
| MATERIAL | NON-ALLOYED STEELS<br>ALLOY STEELS<br>CAST IRON |      | ALLOY STEELS<br>HEAT RESISTANT STEELS |      | HARDENED STEELS              |      |
| HARDNESS | ~ HRC30                                         |      | HRC30 ~ HRC45                         |      | HRC45 ~ HRC55                |      |
| STRENGTH | ~ 1000N/mm <sup>2</sup>                         |      | 1000 ~ 1500N/mm <sup>2</sup>          |      | 1500 ~ 2000N/mm <sup>2</sup> |      |
| DIAMETER | RPM                                             | FEED | RPM                                   | FEED | RPM                          | FEED |
| 3.0      | 6255                                            | 180  | 4050                                  | 135  | 2970                         | 90   |
| 4.0      | 5040                                            | 220  | 3240                                  | 150  | 2430                         | 95   |
| 5.0      | 4320                                            | 225  | 2745                                  | 190  | 2115                         | 110  |
| 6.0      | 3735                                            | 225  | 2385                                  | 190  | 1845                         | 110  |
| 8.0      | 2835                                            | 240  | 1800                                  | 190  | 1440                         | 110  |
| 10.0     | 1935                                            | 240  | 1530                                  | 190  | 1125                         | 110  |
| 12.0     | 1620                                            | 190  | 1350                                  | 170  | 945                          | 95   |
| 16.0     | 1620                                            | 170  | 990                                   | 130  | 760                          | 80   |
| 20.0     | 1170                                            | 120  | 770                                   | 95   | 560                          | 60   |



RPM = rev./min. (转速/分钟)  
FEED = mm/min. (进给量)

**硬质合金, 4刃 颈部长延伸 - 侧铣  
CARBIDE, 4 FLUTE EXTENDED NECK - SIDE CUTTING**
**GFC64 SERIES**

| 材质       | 硬化钢, 耐热钢                                    |      | 硬化钢             |      |               |      |               |      |               |      |
|----------|---------------------------------------------|------|-----------------|------|---------------|------|---------------|------|---------------|------|
| MATERIAL | HARDENED STEELS<br>HEAT RESISTANT<br>STEELS |      | HARDENED STEELS |      |               |      |               |      |               |      |
| HARDNESS | HRC30 ~ HRC40                               |      | HRC40 ~ HRC50   |      | HRC50 ~ HRC55 |      | HRC55 ~ HRC60 |      | HRC60 ~ HRC65 |      |
| DIAMETER | RPM                                         | FEED | RPM             | FEED | RPM           | FEED | RPM           | FEED | RPM           | FEED |
| 1.0      | 24000                                       | 814  | 19000           | 578  | 12750         | 391  | 10250         | 237  | 8000          | 149  |
| 2.0      | 16650                                       | 963  | 13000           | 688  | 8750          | 462  | 7250          | 286  | 5500          | 176  |
| 3.0      | 10900                                       | 963  | 8650            | 688  | 5750          | 462  | 4750          | 286  | 3750          | 176  |
| 4.0      | 8350                                        | 990  | 6600            | 715  | 4400          | 484  | 3600          | 297  | 2800          | 184  |
| 5.0      | 7850                                        | 1100 | 6250            | 825  | 4150          | 550  | 3200          | 319  | 2550          | 204  |
| 6.0      | 6550                                        | 1073 | 5175            | 770  | 3450          | 523  | 2650          | 308  | 2100          | 193  |
| 8.0      | 4940                                        | 1034 | 3900            | 743  | 2600          | 495  | 2000          | 286  | 1600          | 182  |
| 10.0     | 3900                                        | 963  | 3075            | 693  | 2050          | 462  | 1600          | 264  | 1275          | 171  |
| 12.0     | 3325                                        | 963  | 2625            | 693  | 1750          | 462  | 1325          | 264  | 1050          | 165  |
| 16.0     | 2450                                        | 825  | 1950            | 605  | 1300          | 402  | 1000          | 231  | 800           | 149  |
| 20.0     | 1950                                        | 715  | 1550            | 534  | 1025          | 358  | 800           | 209  | 650           | 138  |



RPM = rev./min. (转速/分钟)  
FEED = mm/min. (进给量)

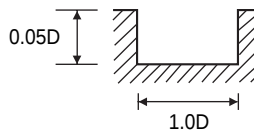
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END MILLSi-Xmill  
END MILLSX5070  
END MILLSX-POWER  
END MILLSJET-POWER  
END MILLSV7 Mill INOX  
END MILLSV7 Mill STEEL  
END MILLSALU-POWER  
END MILLS

CRX S

D-POWER  
END MILLSK-2 CARBIDE  
END MILLSGENERAL  
CARBIDE  
END MILLSTANK-POWER  
END MILLSGENERAL  
HSS  
END MILLSMILLING  
CUTTERSTECHNICAL  
DATA


**硬质合金, 2刃 颈部延伸 - 开槽**
**CARBIDE, 2 FLUTE EXTENDED NECK - SLOTTING**
**GFC63 SERIES**

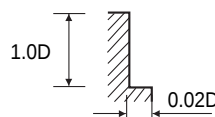
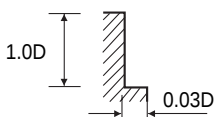
| 材质       | 硬化钢, 耐热钢                                    |      | 硬化钢             |      |               |      |               |      |               |      |
|----------|---------------------------------------------|------|-----------------|------|---------------|------|---------------|------|---------------|------|
| MATERIAL | HARDENED STEELS<br>HEAT RESISTANT<br>STEELS |      | HARDENED STEELS |      |               |      |               |      |               |      |
| HARDNESS | HRC30 ~ HRC40                               |      | HRC40 ~ HRC50   |      | HRC50 ~ HRC55 |      | HRC55 ~ HRC60 |      | HRC60 ~ HRC65 |      |
| DIAMETER | RPM                                         | FEED | RPM             | FEED | RPM           | FEED | RPM           | FEED | RPM           | FEED |
| 0.5      | 18750                                       | 130  | 16875           | 100  | 15000         | 80   | 12375         | 50   | 9375          | 30   |
| 0.6      | 18750                                       | 165  | 16875           | 130  | 15000         | 100  | 11250         | 55   | 9375          | 40   |
| 0.8      | 18750                                       | 210  | 16875           | 150  | 11250         | 100  | 9375          | 60   | 7125          | 40   |
| 1.0      | 18000                                       | 260  | 14250           | 200  | 9560          | 130  | 7690          | 80   | 6000          | 50   |
| 2.0      | 12490                                       | 300  | 9750            | 240  | 6560          | 150  | 5440          | 90   | 4125          | 55   |
| 3.0      | 8175                                        | 300  | 6490            | 240  | 4310          | 150  | 3560          | 90   | 2810          | 55   |
| 4.0      | 6260                                        | 310  | 4950            | 250  | 3300          | 160  | 2700          | 95   | 2100          | 60   |
| 5.0      | 5890                                        | 350  | 4690            | 280  | 3110          | 180  | 2400          | 100  | 1910          | 60   |
| 6.0      | 4910                                        | 330  | 3880            | 270  | 2590          | 170  | 1990          | 100  | 1575          | 60   |
| 8.0      | 3705                                        | 330  | 2925            | 250  | 1950          | 160  | 1500          | 90   | 1200          | 60   |
| 10.0     | 2925                                        | 300  | 2310            | 240  | 1540          | 150  | 1200          | 85   | 960           | 50   |
| 12.0     | 2490                                        | 300  | 1970            | 240  | 1310          | 150  | 990           | 85   | 790           | 50   |



RPM = rev./min. (转速/分钟)  
FEED = mm/min. (进给量)

**硬质合金, 2刃 颈部延伸 - 侧铣**
**CARBIDE, 2 FLUTE EXTENDED NECK - SIDE CUTTING**
**GFC63 SERIES**

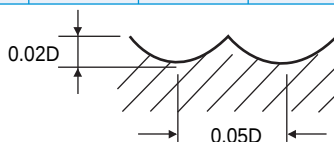
| 材质       | 硬化钢, 耐热钢                                    |      | 硬化钢             |      |               |      |               |      |               |      |
|----------|---------------------------------------------|------|-----------------|------|---------------|------|---------------|------|---------------|------|
| MATERIAL | HARDENED STEELS<br>HEAT RESISTANT<br>STEELS |      | HARDENED STEELS |      |               |      |               |      |               |      |
| HARDNESS | HRC30 ~ HRC40                               |      | HRC40 ~ HRC50   |      | HRC50 ~ HRC55 |      | HRC55 ~ HRC60 |      | HRC60 ~ HRC65 |      |
| DIAMETER | RPM                                         | FEED | RPM             | FEED | RPM           | FEED | RPM           | FEED | RPM           | FEED |
| 0.5      | 18750                                       | 90   | 16875           | 70   | 15000         | 55   | 12375         | 35   | 9375          | 20   |
| 0.6      | 18750                                       | 120  | 16875           | 90   | 15000         | 70   | 11250         | 40   | 9375          | 30   |
| 0.8      | 18750                                       | 150  | 16875           | 110  | 11250         | 70   | 9375          | 40   | 7125          | 30   |
| 1.0      | 18000                                       | 370  | 14250           | 290  | 9560          | 180  | 7690          | 110  | 6000          | 70   |
| 2.0      | 12490                                       | 420  | 9750            | 340  | 6560          | 210  | 5440          | 130  | 4125          | 80   |
| 3.0      | 8175                                        | 420  | 6490            | 340  | 4310          | 210  | 3560          | 130  | 2810          | 80   |
| 4.0      | 6260                                        | 440  | 4950            | 350  | 3300          | 220  | 2700          | 135  | 2100          | 85   |
| 5.0      | 5890                                        | 510  | 4690            | 405  | 3110          | 250  | 2400          | 140  | 1910          | 90   |
| 6.0      | 4910                                        | 475  | 3880            | 390  | 2590          | 240  | 1990          | 140  | 1575          | 90   |
| 8.0      | 3705                                        | 465  | 2925            | 360  | 1950          | 220  | 1500          | 130  | 1200          | 80   |
| 10.0     | 2925                                        | 420  | 2310            | 340  | 1540          | 210  | 1200          | 120  | 960           | 80   |
| 12.0     | 2490                                        | 420  | 1970            | 340  | 1310          | 210  | 990           | 120  | 790           | 80   |



RPM = rev./min. (转速/分钟)  
FEED = mm/min. (进给量)

**硬质合金, 2刃 球头  
CARBIDE, 2 FLUTE BALL NOSE**
**GFC65, GFC66 SERIES**

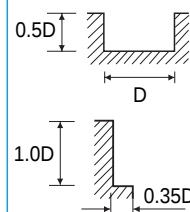
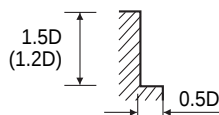
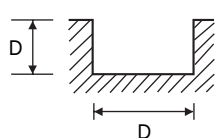
| 材质          | 硬化钢, 耐热钢                                    |      | 硬化钢             |      |               |      |               |      |               |      |
|-------------|---------------------------------------------|------|-----------------|------|---------------|------|---------------|------|---------------|------|
| MATERIAL    | HARDENED STEELS<br>HEAT RESISTANT<br>STEELS |      | HARDENED STEELS |      |               |      |               |      |               |      |
| HARDNESS    | HRC30 ~ HRC40                               |      | HRC40 ~ HRC50   |      | HRC50 ~ HRC55 |      | HRC55 ~ HRC60 |      | HRC60 ~ HRC65 |      |
| DIAMETER    | RPM                                         | FEED | RPM             | FEED | RPM           | FEED | RPM           | FEED | RPM           | FEED |
| R0.1 × 0.2  | 25000                                       | 660  | 25000           | 578  | 22500         | 528  | 20000         | 424  | 17500         | 371  |
| R0.15 × 0.3 | 25000                                       | 825  | 25000           | 743  | 22500         | 660  | 20000         | 531  | 17500         | 462  |
| R0.2 × 0.4  | 25000                                       | 1045 | 25000           | 935  | 22500         | 825  | 20000         | 660  | 17500         | 578  |
| R0.25 × 0.5 | 25000                                       | 1320 | 25000           | 1155 | 22500         | 1045 | 20000         | 825  | 17500         | 715  |
| R0.3 × 0.6  | 25000                                       | 1595 | 25000           | 1375 | 22500         | 1210 | 20000         | 990  | 17500         | 880  |
| R0.4 × 0.8  | 25000                                       | 2145 | 25000           | 1815 | 22500         | 1650 | 20000         | 1320 | 17500         | 1155 |
| R0.5 × 1.0  | 25000                                       | 2640 | 25000           | 2310 | 22500         | 2090 | 20000         | 1650 | 17500         | 1430 |
| R0.6 × 1.2  | 25000                                       | 2805 | 24000           | 2365 | 21500         | 2118 | 19000         | 1650 | 17000         | 1485 |
| R0.75 × 1.5 | 25000                                       | 2970 | 24000           | 2475 | 21500         | 2200 | 18500         | 1705 | 16500         | 1485 |
| R1 × 2.0    | 24850                                       | 3135 | 23900           | 2640 | 20000         | 2200 | 17500         | 1733 | 16000         | 1540 |
| R1.5 × 3.0  | 16550                                       | 3300 | 15900           | 2915 | 13250         | 2200 | 11750         | 1733 | 10500         | 1540 |
| R2 × 4.0    | 12450                                       | 3300 | 11950           | 2915 | 10000         | 2200 | 8750          | 1733 | 8000          | 1540 |
| R2.5 × 5.0  | 9300                                        | 3190 | 8900            | 2695 | 7500          | 2063 | 6750          | 1678 | 5750          | 1403 |
| R3 × 6.0    | 6950                                        | 2668 | 6700            | 2255 | 5500          | 1705 | 5000          | 1375 | 4400          | 1183 |
| R4 × 8.0    | 5550                                        | 2310 | 5350            | 1925 | 4500          | 1485 | 4000          | 1183 | 3500          | 1018 |
| R5 × 10.0   | 4650                                        | 2035 | 4450            | 1705 | 3750          | 1320 | 3300          | 1045 | 2900          | 908  |
| R6 × 12.0   | 3475                                        | 1623 | 3340            | 1375 | 2800          | 1045 | 2500          | 853  | 2200          | 688  |
| R8 × 16.0   | 2785                                        | 1458 | 2675            | 1210 | 2250          | 935  | 2000          | 743  | 1750          | 550  |
| R10 × 20.0  | 2225                                        | 1293 | 2150            | 1073 | 1800          | 825  | 1600          | 660  | 1400          | 440  |



RPM = rev./min. (转速/分钟)  
FEED = mm/min. (进给量)


**硬质合金, 4刃**
**CARBIDE, 4 FLUTE**
**EMC67, EMC68 SERIES**

| 材质       | 合金钢, 铸铁                   |      | 合金钢, 铸铁                    |      | 不锈钢, 300SERIES                |      | 不锈钢, 400SERIES                |      | 钛        |      | 铬镍铁合金   |      |
|----------|---------------------------|------|----------------------------|------|-------------------------------|------|-------------------------------|------|----------|------|---------|------|
| MATERIAL | ALLOY STEELS<br>CAST IRON |      | ALLOY STEELS<br>CAST IRON  |      | STAINLESS STEELS<br>300SERIES |      | STAINLESS STEELS<br>400SERIES |      | TITANIUM |      | INCONEL |      |
| HARDNESS | ~ HRc 30                  |      | HRc 30 ~ HRc 45            |      |                               |      |                               |      |          |      |         |      |
| STRENGTH | ~1000N/mm <sup>2</sup>    |      | 1000~1300N/mm <sup>2</sup> |      |                               |      |                               |      |          |      |         |      |
| DIAMETER | RPM                       | FEED | RPM                        | FEED | RPM                           | FEED | RPM                           | FEED | RPM      | FEED | RPM     | FEED |
| 6.0      | 6060                      | 390  | 4240                       | 350  | 4590                          | 320  | 6420                          | 320  | 4590     | 320  | 1220    | 90   |
| 8.0      | 4545                      | 500  | 3180                       | 350  | 3440                          | 390  | 4810                          | 420  | 2950     | 420  | 910     | 110  |
| 10.0     | 4010                      | 620  | 2800                       | 430  | 2750                          | 530  | 3850                          | 530  | 2750     | 530  | 730     | 140  |
| 12.0     | 3340                      | 630  | 2340                       | 440  | 2290                          | 510  | 3210                          | 510  | 2290     | 410  | 610     | 135  |
| 14.0     | 2860                      | 560  | 2000                       | 390  | 1960                          | 470  | 2750                          | 470  | 1960     | 470  | 520     | 130  |
| 16.0     | 2510                      | 530  | 1755                       | 370  | 1720                          | 430  | 2400                          | 430  | 1720     | 430  | 455     | 120  |
| 18.0     | 2230                      | 530  | 1560                       | 370  | 1530                          | 430  | 2140                          | 430  | 1530     | 430  | 405     | 110  |
| 20.0     | 2000                      | 520  | 1400                       | 365  | 1370                          | 420  | 1930                          | 420  | 1370     | 420  | 365     | 110  |
| 25.0     | 1600                      | 405  | 1120                       | 280  | 1090                          | 340  | 1540                          | 340  | 1090     | 340  | 290     | 100  |



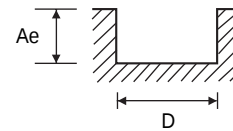
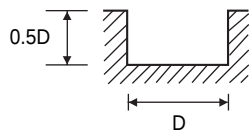
1.2D 轴向切削深度应该使用在刃径超过8mm的短刃系列。

1.2 x D Axial cutting depth should be applied for Short length series DIA over 8mm.

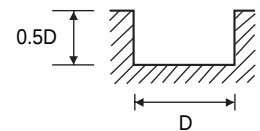
RPM = rev./min. (转速/分钟)  
FEED = mm/min. (进给量)

**硬质合金, 多刃 45度螺旋角 粗加工 - 开槽**  
**CARBIDE, MULTI FLUTE 45° HELIX ROUGHING - SLOTTING**
**EMC69 SERIES**

| 材质       | 非合金钢, 合金钢, 铸铁                                   |      | 合金钢, 耐热钢                              |      | 不锈钢              |      | 铬镍铁合金   |      |
|----------|-------------------------------------------------|------|---------------------------------------|------|------------------|------|---------|------|
| MATERIAL | NON-ALLOYED STEELS<br>ALLOY STEELS<br>CAST IRON |      | ALLOY STEELS<br>HEAT RESISTANT STEELS |      | STAINLESS STEELS |      | INCONEL |      |
| HARDNESS | ~ HRC30                                         |      | HRC30 ~ HRC45                         |      |                  |      |         |      |
| STRENGTH | ~ 1000N/mm <sup>2</sup>                         |      | 1000 ~ 1500N/mm <sup>2</sup>          |      |                  |      |         |      |
| DIAMETER | RPM                                             | FEED | RPM                                   | FEED | RPM              | FEED | RPM     | FEED |
| 6.0      | 14740                                           | 2410 | 11720                                 | 870  | 7940             | 600  | 2700    | 260  |
| 8.0      | 10960                                           | 2410 | 8690                                  | 870  | 5950             | 600  | 2025    | 240  |
| 10.0     | 8690                                            | 2410 | 7180                                  | 870  | 4820             | 590  | 1460    | 260  |
| 12.0     | 7560                                            | 2490 | 5670                                  | 830  | 3970             | 590  | 1350    | 260  |
| 16.0     | 5670                                            | 2490 | 4540                                  | 790  | 3120             | 530  | 900     | 150  |
| 20.0     | 4540                                            | 2250 | 3400                                  | 585  | 2270             | 370  | 740     | 135  |



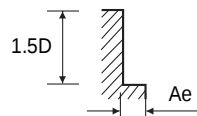
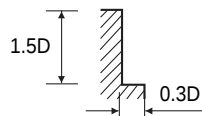
Ae :  $\varnothing 4 \sim \varnothing 10 = 0.25 \times D$   
 $\varnothing 12 \sim \varnothing 16 = 0.15 \times D$   
 $\varnothing 18 \sim \varnothing 20 = 0.10 \times D$



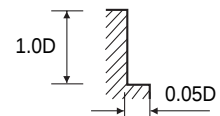
RPM = rev./min. (转速/分钟)  
 FEED = mm/min. (进给量)

**硬质合金, 多刃 45度螺旋角 粗加工 - 侧铣**  
**CARBIDE, MULTI FLUTE 45° HELIX ROUGHING - SIDE CUTTING**
**EMC69 SERIES**

| 材质       | 非合金钢, 合金钢, 铸铁                                   |      | 合金钢, 耐热钢                              |      | 不锈钢              |      | 铬镍铁合金   |      |
|----------|-------------------------------------------------|------|---------------------------------------|------|------------------|------|---------|------|
| MATERIAL | NON-ALLOYED STEELS<br>ALLOY STEELS<br>CAST IRON |      | ALLOY STEELS<br>HEAT RESISTANT STEELS |      | STAINLESS STEELS |      | INCONEL |      |
| HARDNESS | ~ HRC30                                         |      | HRC30 ~ HRC45                         |      |                  |      |         |      |
| STRENGTH | ~ 1000N/mm <sup>2</sup>                         |      | 1000 ~ 1500N/mm <sup>2</sup>          |      |                  |      |         |      |
| DIAMETER | RPM                                             | FEED | RPM                                   | FEED | RPM              | FEED | RPM     | FEED |
| 6.0      | 14740                                           | 2410 | 11720                                 | 870  | 7940             | 600  | 2700    | 260  |
| 8.0      | 10960                                           | 2410 | 8690                                  | 870  | 5950             | 600  | 2025    | 240  |
| 10.0     | 8690                                            | 2410 | 7180                                  | 870  | 4820             | 590  | 1460    | 260  |
| 12.0     | 7560                                            | 2490 | 5670                                  | 830  | 3970             | 590  | 1350    | 260  |
| 16.0     | 5670                                            | 2490 | 4540                                  | 790  | 3120             | 530  | 900     | 150  |
| 20.0     | 4540                                            | 2250 | 3400                                  | 590  | 2270             | 370  | 740     | 135  |



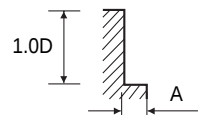
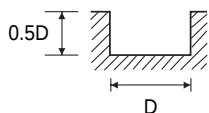
Ae :  $\varnothing 4 \sim \varnothing 10 = 0.25 \times D$   
 $\varnothing 12 \sim \varnothing 16 = 0.15 \times D$   
 $\varnothing 18 \sim \varnothing 20 = 0.10 \times D$



RPM = rev./min. (转速/分钟)  
 FEED = mm/min. (进给量)


**硬质合金, 2刃 45度螺旋角**  
**CARBIDE, 2 FLUTE 45° HELIX**
**E5C70, E5C71 SERIES**

| 材质       | 合金钢, 铸铁                   |      | 铝        |      |
|----------|---------------------------|------|----------|------|
| MATERIAL | ALLOY STEELS<br>CAST IRON |      | ALUMINUM |      |
| HARDNESS | ~ HB 230                  |      |          |      |
| DIAMETER | RPM                       | FEED | RPM      | FEED |
| 1        | 15180                     | 455  | 15180    | 760  |
| 1.5      | 11840                     | 475  | 11835    | 710  |
| 2        | 10170                     | 510  | 10170    | 710  |
| 2.5      | 9510                      | 570  | 9510     | 760  |
| 3        | 9000                      | 630  | 9000     | 810  |
| 4        | 9000                      | 810  | 9000     | 990  |
| 5        | 9000                      | 900  | 9000     | 1170 |
| 6        | 9000                      | 1080 | 9000     | 1350 |
| 7        | 7965                      | 1120 | 7965     | 1355 |
| 8        | 7200                      | 1260 | 7200     | 1620 |
| 9        | 7200                      | 1395 | 7200     | 1510 |
| 10       | 7200                      | 1530 | 7200     | 1890 |
| 12       | 7200                      | 1890 | 7200     | 2340 |
| 14       | 5400                      | 1620 | 5400     | 1980 |
| 16       | 5400                      | 1710 | 5400     | 2160 |
| 18       | 3600                      | 1260 | 3600     | 1620 |
| 20       | 3600                      | 1440 | 3600     | 1710 |



A :  $\varnothing 3 \sim \varnothing 10 = 0.25 \times D$   
 $\varnothing 12 \sim \varnothing 20 = 0.5 \times D$

RPM = rev./min. (转速/分钟)  
 FEED = mm/min. (进给量)

## 硬质合金, 3刃 45度螺旋角 - 开槽

### CARBIDE, 3 FLUTE 45° HELIX - SLOTTING

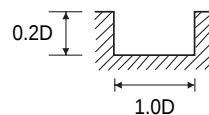
CBN  
END MILLSi-Xmill  
END MILLSX5070  
END MILLSX-POWER  
END MILLSJET-POWER  
END MILLSV7 Mill INOX  
END MILLSV7 Mill STEEL  
END MILLSALU-POWER  
END MILLS

CRX S

D-POWER  
END MILLSK-2 CARBIDE  
END MILLSGENERAL  
CARBIDE  
END MILLSTANK-POWER  
END MILLSGENERAL  
HSS  
END MILLSMILLING  
CUTTERSTECHNICAL  
DATA

### E5C72, E5C73 SERIES

| 材质       | 铝合金, 非铁制金属                    |      |
|----------|-------------------------------|------|
| MATERIAL | ALUMINUM<br>NONFERROUS METALS |      |
| DIAMETER | RPM                           | FEED |
| 3.0      | 9000                          | 450  |
| 4.0      | 9000                          | 570  |
| 5.0      | 9000                          | 650  |
| 6.0      | 9000                          | 780  |
| 8.0      | 7200                          | 900  |
| 10.0     | 7200                          | 1100 |
| 12.0     | 7200                          | 1350 |
| 14.0     | 5400                          | 1160 |
| 16.0     | 5400                          | 1215 |
| 18.0     | 3600                          | 900  |
| 20.0     | 3600                          | 1035 |



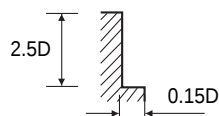
RPM = rev./min. (转速/分钟)  
FEED = mm/min. (进给量)

## 硬质合金, 3刃 45度螺旋角 - 侧铣

### CARBIDE, 3 FLUTE 45° HELIX - SIDE CUTTING

### E5C72, E5C73 SERIES

| 材质       | 铝合金, 非铁制金属                    |      |
|----------|-------------------------------|------|
| MATERIAL | ALUMINUM<br>NONFERROUS METALS |      |
| DIAMETER | RPM                           | FEED |
| 3.0      | 9000                          | 585  |
| 4.0      | 9000                          | 700  |
| 5.0      | 9000                          | 840  |
| 6.0      | 9000                          | 970  |
| 8.0      | 7200                          | 1110 |
| 10.0     | 7200                          | 1350 |
| 12.0     | 7200                          | 1130 |
| 14.0     | 5400                          | 1420 |
| 16.0     | 5400                          | 1560 |
| 18.0     | 3600                          | 1170 |
| 20.0     | 3600                          | 1230 |



RPM = rev./min. (转速/分钟)  
FEED = mm/min. (进给量)



# K-2 CARBIDE END MILLS

推荐的切削条件

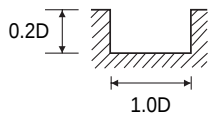
RECOMMENDED CUTTING CONDITIONS

## 硬质合金, 3刃 45度螺旋角 超长刃铣刀 - 开槽

## CARBIDE, 3 FLUTE 45° HELIX EX-LONG LENGTH - SLOTTING

### E5C74 SERIES

| 材质       | 铝合金, 非铁制金属                    |      |
|----------|-------------------------------|------|
| MATERIAL | ALUMINUM<br>NONFERROUS METALS |      |
| DIAMETER | RPM                           | FEED |
| 3.0      | 6300                          | 315  |
| 4.0      | 6300                          | 400  |
| 5.0      | 6300                          | 450  |
| 6.0      | 6300                          | 545  |
| 8.0      | 5040                          | 630  |
| 10.0     | 5040                          | 680  |
| 12.0     | 5040                          | 945  |
| 14.0     | 3780                          | 810  |
| 16.0     | 3780                          | 850  |
| 18.0     | 2520                          | 630  |
| 20.0     | 2520                          | 725  |



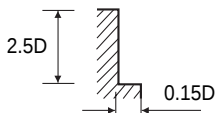
RPM = rev./min. (转速/分钟)  
FEED = mm/min. (进给量)

## 硬质合金, 3刃 45度螺旋角 超长刃铣刀 - 侧铣

## CARBIDE, 3 FLUTE 45° HELIX EX-LONG LENGTH - SIDE CUTTING

### E5C74 SERIES

| 材质       | 铝合金, 非铁制金属                    |      |
|----------|-------------------------------|------|
| MATERIAL | ALUMINUM<br>NONFERROUS METALS |      |
| DIAMETER | RPM                           | FEED |
| 3.0      | 6300                          | 410  |
| 4.0      | 6300                          | 490  |
| 5.0      | 6300                          | 590  |
| 6.0      | 6300                          | 680  |
| 8.0      | 5040                          | 775  |
| 10.0     | 5040                          | 945  |
| 12.0     | 5040                          | 790  |
| 14.0     | 3780                          | 995  |
| 16.0     | 3780                          | 1090 |
| 18.0     | 2520                          | 820  |
| 20.0     | 2520                          | 860  |



RPM = rev./min. (转速/分钟)  
FEED = mm/min. (进给量)