

# B

## 鎢鋼端銑刀

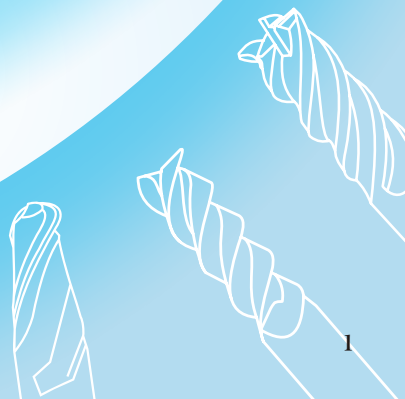
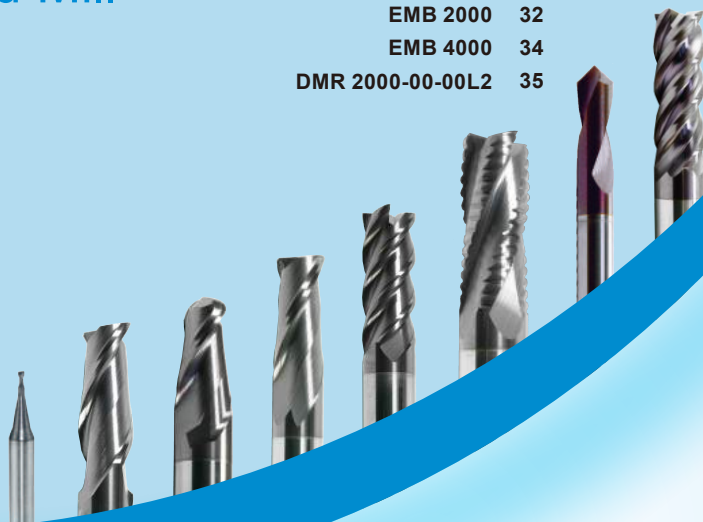
## Carbide End Mill

◆鎢鋼端銑刀識別系統 2  
Carbide End Mill Identification System

◆各式圖標及加工圖示指南 3  
Various Icons Guide And Processing Icon Guide

◆鎢鋼端銑刀系列索引表 4-5  
Carbide End Mill Series

|                  |    |              |    |
|------------------|----|--------------|----|
| S-EMM 2000       | 6  | DMR 2000     | 36 |
| S-EMML 2000-00   | 7  | DMR 4000     | 38 |
| EMM 2000         | 9  | HMA 2000     | 40 |
| EMM 4000         | 12 | HMA 3000     | 42 |
| EMML 4000        | 14 | GMA 2000     | 43 |
| GMM 4000         | 15 | GMA 3000     | 44 |
| MU-EMM 4000      | 17 | MU2-HMA 3000 | 46 |
| MU-GMM 4000      | 20 | MU2-GMA 3000 | 47 |
| MUH-GMM 4000     | 24 | FM-CMM 4000  | 48 |
| MUH-IMM 4000     | 26 | RM-CMM 4000  | 49 |
| GMM 6000         | 28 | EMM2000T00   | 50 |
| S-EMB 2000       | 29 | DR-DMC 2000  | 51 |
| EMB 2000-00      | 30 | DC-DMC 2000  | 51 |
| EMB 2000         | 32 |              |    |
| EMB 4000         | 34 |              |    |
| DMR 2000-00-00L2 | 35 |              |    |



# 鎢鋼端銑刀識別系統

Carbide End Mill Identification System

# S-E M M L 2 000 XXX

- 1 特徵 Feature
- 2 螺旋角 Helix angle
- 3 材質 Grade
- 4 用途 Application
- 5 長刃(頸) Long Flute(or Neck)
- 6 刃數 Teeth
- 7 直徑 Diameter
- 8 其他 Other

## 1 特徵 Feature

| 記號 Sign | 特徵 Feature                              |
|---------|-----------------------------------------|
| S       | 微小徑 Micro Diameter                      |
| MU      | 圓溝 Rounded Land                         |
| MU2     | 圓溝 2 離隙 Rounded Land Double Edge        |
| MUH     | 圓溝不等分割 Rounded Land Irregular Pitch     |
| DR      | 定位鑽夾角 120° Position Drill 120°          |
| DC      | 定位鑽夾角 90° Position Drill 90°            |
| RU      | 圓溝粗加工粗銑 Rounded Land Roughing           |
| CU      | 圓溝中工粗銑 Rounded Land Medium Roughing     |
| FU      | 圓溝精加工粗銑 Rounded Land Finishing Roughing |
| FM      | 精加工粗銑 Fine Pitch & Finishing Roughing   |
| CM      | 中加工粗銑 Fine Pitch & Medium Roughing      |
| RM      | 粗加工粗銑 Fine Pitch & Roughing             |
| V       | 鳩尾槽 Dove-tail Groove                    |
| VV      | 雙刀鳩尾槽 Double-edge Dove-tail Groove      |

## 2 螺旋角 Helix Angle 3 材質 Grade

| 記號 Sign | 角度 Angle  |
|---------|-----------|
| A       | 0°        |
| C       | 25°       |
| D       | 30°       |
| E       | 35°       |
| F       | 35° / 38° |
| G       | 45°       |
| H       | 55°       |
| I       | 42° / 45° |

| 記號 Sign | 材質代號 Grade |
|---------|------------|
| M       | M500       |
| G       | G300       |

## 4 用途 Application

| 記號 Sign | 用途說明 Application |
|---------|------------------|
| A       | 鋁用合金 Aluminum    |
| B       | 球頭 Ball Nose     |
| M       | 平刀 Square        |
| R       | 圓鼻 Corner Radius |
| C       | 倒角 Chamfer       |

## 8 其他 Other

|         |                                                |
|---------|------------------------------------------------|
| R□□     | R角 Radius ex : R02=R0.2mm                      |
| T□□     | 錐度刃度數 Tapered ex : T005=0.5°                   |
| L1      | 特殊刃長 Special Flute Length                      |
| L2      | 有效長 E.L.                                       |
| X□□□□   | 特殊角度 Special Angle ex : X40.45=鳩尾槽刀刃角40°，導角45° |
| 特 殊     | E1 : 75mm                                      |
| 全長代碼    | H : 100mm                                      |
| Special | M : 150mm                                      |
| O.A.L   | R : 200mm                                      |
| DX      | 特殊柄徑 Special Shank Dia ex : D6=6mm             |

# 規格圖標指南

## Specification Icon Guide

| 圖標 Icon                                                                           | 說明 Explanation                        | 圖標 Icon                                                                           | 說明 Explanation        |
|-----------------------------------------------------------------------------------|---------------------------------------|-----------------------------------------------------------------------------------|-----------------------|
|  | 超微粒子超硬合金<br>Micro Grain Carbide       |  | 材質 M500<br>Grade M500 |
|  | 含鈷量10~12%<br>Cobalt Content 10~12%    |  | 材質 G300<br>Grade G300 |
|  | 可被切削材硬度 <55°<br>Working Hardness <55° |  | 螺旋角度<br>Helix Angle   |
|  | AlTiN 塗層<br>AlTiN Coating             |                                                                                   |                       |

# 加工圖示指南

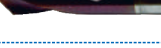
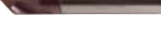
## Processing Icon Guide

| 圖標 Icon                                                                             | 說明 Explanation                    | 圖標 Icon                                                                             | 說明 Explanation              | 圖標 Icon                                                                             | 說明 Explanation                |
|-------------------------------------------------------------------------------------|-----------------------------------|-------------------------------------------------------------------------------------|-----------------------------|-------------------------------------------------------------------------------------|-------------------------------|
|   | 直角鑽孔<br>Right angle Drilling      |   | 曲面銑削<br>Surface Milling     |   | R角鑽孔<br>R Corner Drilling     |
|  | 圓孔倒角<br>Chamfer Of Rounding Hole  |  | 仿型銑削<br>Profilemilling      |  | R角開槽<br>R Corner Slotced      |
|  | 直角開槽<br>Right angle Slotted       |  | 倒角加工<br>Chamfer Processing  |  | R角側銑<br>R Corner Side Milling |
|  | 全開槽<br>Full Slot                  |  | 定位加工<br>Position Processing |  | R溝槽<br>R Slot                 |
|  | 斜度坡走銑削<br>Angular Plunge Grinding |  | 側銑<br>Side Milling          |                                                                                     |                               |

# 鎢鋼端銑刀系列索引表

Carbide End Mill Series Index

|                                                 | 產品 Product                                                                          | 型號 Model No.     | 規格 Description                | 柄徑 (D) Shank Dia.(mm) |   |   |   |   |    |    |    |    |    | 頁碼 Page |
|-------------------------------------------------|-------------------------------------------------------------------------------------|------------------|-------------------------------|-----------------------|---|---|---|---|----|----|----|----|----|---------|
|                                                 |                                                                                     |                  |                               | 3                     | 4 | 5 | 6 | 8 | 10 | 12 | 16 | 20 | 25 |         |
| <b>A</b><br>刀片<br>INSERT                        |                                                                                     |                  |                               |                       |   |   |   |   |    |    |    |    |    |         |
| <b>B</b><br>鎢鋼端銑刀<br>CARBIDE END MILL           |    | S-EMM 2000       | MG CO 10%<br>HRC ≤55 35 AlTiN |                       | ● |   |   |   |    |    |    |    |    | 6       |
| <b>C</b><br>外徑車刀架<br>TOOL HOLDER                |    | S-EMML 2000-00   | MG CO 10%<br>HRC ≤55 35 AlTiN |                       | ● |   |   |   |    |    |    |    |    | 7-8     |
| <b>D</b><br>外徑出水車刀架<br>TOOL HOLDER WITH COOLANT |    | EMM 2000         | MG CO 10%<br>HRC ≤55 35 AlTiN |                       | ● |   |   | ● | ●  | ●  | ●  | ●  | ●  | 9-11    |
|                                                 |    | EMM 4000         | MG CO 10%<br>HRC ≤55 35 AlTiN |                       | ● |   |   | ● | ●  | ●  | ●  | ●  | ●  | 12-13   |
| <b>E</b><br>走心式車刀架<br>AUTOMATIC LATHES          |    | EMML 4000        | MG CO 10%<br>HRC ≤55 35 AlTiN |                       | ● |   |   | ● | ●  | ●  | ●  | ●  | ●  | 14      |
| <b>F</b><br>手工具<br>HAND TOOLS                   |    | GMM 4000         | MG CO 10%<br>HRC ≤55 45 AlTiN |                       | ● |   |   | ● | ●  | ●  | ●  | ●  | ●  | 15-16   |
|                                                 |    | NEW MU-EMM 4000  | MG CO 10%<br>HRC ≤55 45 AlTiN |                       | ● |   |   | ● | ●  | ●  | ●  | ●  | ●  | 17-19   |
| <b>G</b><br>內徑車刀架<br>BORING BAR                 |    | NEW MU-GMM 4000  | MG CO 10%<br>HRC ≤55 45 AlTiN |                       | ● |   |   | ● | ●  | ●  | ●  | ●  | ●  | 20-23   |
| <b>H</b><br>切斷刀架<br>GROOVING                    |   | NEW MUH-GMM 4000 | MG CO 10%<br>HRC ≤55 35 AlTiN |                       | ● |   |   | ● | ●  | ●  | ●  | ●  | ●  | 24-25   |
|                                                 |  | NEW MUH-IMM 4000 | MG CO 10%<br>HRC ≤55 35 AlTiN |                       |   |   |   | ● | ●  | ●  | ●  | ●  | ●  | 26-27   |
| <b>I</b><br>銑刀<br>END MILL CUTTER               |  | GMM 6000         | MG CO 10%<br>HRC ≤55 45 AlTiN |                       | ● |   |   | ● | ●  | ●  | ●  | ●  | ●  | 28      |
| <b>J</b><br>快速鑽頭<br>RAPID DRILL                 |  | S-EMB 2000       | MG CO 10%<br>HRC ≤55 35 AlTiN |                       | ● |   |   |   |    |    |    |    |    | 29      |
|                                                 |  | EMB 2000-00      | MG CO 10%<br>HRC ≤55 35 AlTiN |                       | ● |   |   |   |    |    |    |    |    | 30-31   |
| <b>K</b><br>機床配件<br>MACHINE ACCESSORIES         |  | EMB 2000         | MG CO 10%<br>HRC ≤55 35 AlTiN |                       | ● |   |   | ● | ●  | ●  | ●  | ●  | ●  | 32-33   |

| 產品 Product                                                                          | 型號 Model No.                                                                                    | 規格 Description                                                                                                                                                                                                                                                                                                                                                                                                               | 柄徑 (D) Shank Dia.(mm) |   |   |   |   |    |    |    |    |    |       | 頁碼 Page |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---|---|---|---|----|----|----|----|----|-------|---------|
|                                                                                     |                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                              | 3                     | 4 | 5 | 6 | 8 | 10 | 12 | 16 | 20 | 25 |       |         |
|    | EMB 4000                                                                                        |  <br>   |                       | ● |   |   | ● | ●  | ●  | ●  | ●  | ●  | 34    |         |
|    | DMR 2000-00-00L2                                                                                |  <br>   |                       | ● |   |   | ● | ●  | ●  | ●  |    |    | 35    |         |
|    | DMR 2000                                                                                        |  <br>   |                       | ● |   |   | ● | ●  | ●  | ●  |    |    | 36-37 |         |
|    | DMR 4000                                                                                        |  <br>   |                       | ● |   |   | ● | ●  | ●  | ●  |    |    | 38-39 |         |
|    | HMA 2000                                                                                        |                                                                                                                                                                           |                       | ● |   |   | ● | ●  | ●  | ●  | ●  | ●  | 40-41 |         |
|    | HMA 3000                                                                                        |                                                                                                                                                                           |                       | ● |   |   | ● | ●  | ●  | ●  | ●  | ●  | 42    |         |
|    | GMA 2000                                                                                        |                                                                                                                                                                           |                       |   |   |   | ● | ●  | ●  |    |    |    | 43    |         |
|    | GMA 3000                                                                                        |                                                                                                                                                                           |                       | ● |   |   | ● | ●  | ●  | ●  | ●  | ●  | 44-45 |         |
|    | MU2-HMA 3000                                                                                    |                                                                                                                                                                           |                       | ● |   |   | ● | ●  | ●  | ●  |    |    | 46    |         |
|   | MU2-GMA 3000                                                                                    |                                                                                                                                                                        |                       | ● |   |   | ● | ●  | ●  | ●  | ●  | ●  | 47    |         |
|  |  FM-CMM 4000 |                                                                                                                                                                     |                       |   |   |   |   | ●  | ●  | ●  | ●  | ●  | 48    |         |
|  |  RM-CMM 4000 |                                                                                                                                                                     |                       |   |   |   |   | ●  | ●  | ●  | ●  | ●  | 49    |         |
|  |  EMM2000T00  |                                                                                                                                                                     |                       | ● |   |   | ● | ●  |    | ●  | ●  |    | 50    |         |
|  |  DR-DMC 2000 |                                                                                                                                                                     |                       | ● | ● | ● | ● | ●  | ●  | ●  | ●  | ●  | 51-52 |         |
|  |  DC-DMC 2000 |                                                                                                                                                                     |                       | ● | ● | ● | ● | ●  | ●  | ●  | ●  | ●  | 51-52 |         |

A  
刀片  
INSERT

B  
鎢鋼端銑刀  
CARBIDE END MILL

C  
外徑車刀架  
TOOL HOLDER

D  
外徑出水車刀架  
TOOL HOLDER WITH COOLANT

E  
走心式車刀架  
AUTOMATIC LATHES

F  
手工具  
HAND TOOLS

G  
內徑車刀架  
BORING BAR

H  
切斷刀架  
GROOVING

I  
銑刀  
END MILL CUTTER

J  
快速鑽頭  
RAPID DRILL

K  
機床配件  
MACHINE ACCESSORIES

A  
刀片  
INSERT

 B  
鎢鋼端銑刀  
CARBIDE END MILL

 C  
外徑車刀架  
TOOL HOLDER

 D  
外徑出水車刀架  
TOOL HOLDER  
WITH COOLANT

 E  
走心式車刀架  
AUTOMATIC LATHES

 F  
手工工具  
HAND TOOLS

 G  
內徑車刀架  
BORING BAR

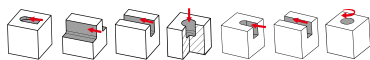
 H  
切斷刀架  
GROOVING

 I  
銑刀  
END MILL  
CUTTER

 J  
快速鑽頭  
RAPID DRILL

 K  
機床配件  
MACHINE  
ACCESSORIES

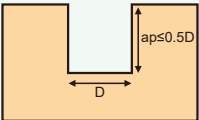
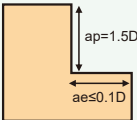
## S-EMM 2000

 微小徑 2 刃立銑刀  
Micro Diameter  
2 Flutes End Mill


| 產品型號 Model No | 在庫 Stock | 刃徑(d) F.D | 刃長(L1) Flute Lenght | 全長(L) O.A.L. | 柄徑(D) Shank Dia. | 價格 Price |
|---------------|----------|-----------|---------------------|--------------|------------------|----------|
| S-EMM2002     | ●        | 0.2       | 0.4                 | 50           | 4                |          |
| S-EMM2003     | ●        | 0.3       | 0.6                 | 50           | 4                |          |
| S-EMM2004     | ●        | 0.4       | 0.8                 | 50           | 4                |          |
| S-EMM2005     | ●        | 0.5       | 1.0                 | 50           | 4                |          |
| S-EMM2006     | ●        | 0.6       | 1.2                 | 50           | 4                |          |
| S-EMM2007     | ●        | 0.7       | 1.4                 | 50           | 4                |          |
| S-EMM2008     | ●        | 0.8       | 1.6                 | 50           | 4                |          |
| S-EMM2009     | ●        | 0.9       | 1.8                 | 50           | 4                |          |

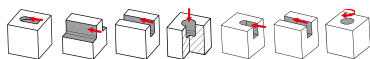
## S-EMM2000系列切削參數

The Cutting Data For S-EMM2000 Series

| 被加工材質 Material           | 鋼、不鏽鋼、鑄鐵 Steel、Stainless steel、Iron cast                                            |                  |                                                                                     |
|--------------------------|-------------------------------------------------------------------------------------|------------------|-------------------------------------------------------------------------------------|
| 直徑 Shank(mm)             | 轉速 n (min)                                                                          | 進給速度 Vf (mm/min) |                                                                                     |
|                          |                                                                                     | 開槽 Slotted       | 側邊 Side                                                                             |
| 4                        | 4800                                                                                | 135              | 475                                                                                 |
| 6                        | 3100                                                                                | 120              | 325                                                                                 |
| 8                        | 2300                                                                                | 120              | 375                                                                                 |
| 10                       | 1900                                                                                | 120              | 375                                                                                 |
| 12                       | 1600                                                                                | 120              | 275                                                                                 |
| 16                       | 1200                                                                                | 135              | 200                                                                                 |
| 18                       | 1100                                                                                | 135              | 175                                                                                 |
| 20                       | 950                                                                                 | 135              | 165                                                                                 |
| 切深量 Depth<br>(D : 刃徑F.D) | 開槽 Slotted                                                                          |                  | 側邊 Side                                                                             |
|                          |  |                  |  |

# S-EMML 2000-00

長頸短刃 2 刃立銑刀  
Long Neck Short Flute  
2 Flutes End Mill



A  
刀片  
INSERT

B  
鎢鋼端銑刀  
CARBIDE END MILL

C  
外徑車刀架  
TOOL HOLDER

D  
外徑出水車刀架  
TOOL HOLDER  
WITH COOLANT

E  
走心式車刀架  
AUTOMATIC LATHES

F  
手工具  
HAND TOOLS

G  
內徑車刀架  
BORING BAR

H  
切斷刀架  
GROOVING

I  
銑刀  
END MILL  
CUTTER

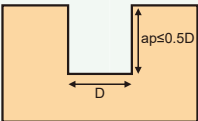
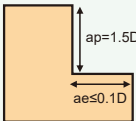
J  
快速鑽頭  
RAPID DRILL

K  
機床配件  
MACHINE  
ACCESSORIES

| 產品型號 Model No  | 在庫 Stock | 刃徑(d) F.D | 刃長(L1) Flute Lenght | 有效長(L2) E.L. | 全長(L) O.A.L. | 柄徑(D) Shank Dia. | 價格 Price |
|----------------|----------|-----------|---------------------|--------------|--------------|------------------|----------|
| S-EMML2004L202 | ●        | 0.4       | 0.6                 | 2            | 50           | 4                |          |
| S-EMML2004L204 | ●        | 0.4       | 0.6                 | 4            | 50           | 4                |          |
| S-EMML2005L202 | ●        | 0.5       | 0.8                 | 2            | 50           | 4                |          |
| S-EMML2005L204 | ●        | 0.5       | 0.8                 | 4            | 50           | 4                |          |
| S-EMML2005L206 | ●        | 0.5       | 0.8                 | 6            | 50           | 4                |          |
| S-EMML2006L202 | ●        | 0.6       | 1.0                 | 2            | 50           | 4                |          |
| S-EMML2006L204 | ●        | 0.6       | 1.0                 | 4            | 50           | 4                |          |
| S-EMML2006L206 | ●        | 0.6       | 1.0                 | 6            | 50           | 4                |          |
| S-EMML2006L208 | ●        | 0.6       | 1.0                 | 8            | 50           | 4                |          |
| S-EMML2008L203 | ●        | 0.8       | 1.2                 | 3            | 50           | 4                |          |
| S-EMML2008L204 | ●        | 0.8       | 1.2                 | 4            | 50           | 4                |          |
| S-EMML2008L206 | ●        | 0.8       | 1.2                 | 6            | 50           | 4                |          |
| S-EMML2008L208 | ●        | 0.8       | 1.2                 | 8            | 50           | 4                |          |
| S-EMML2008L210 | ●        | 0.8       | 1.2                 | 10           | 50           | 4                |          |
| S-EMML2010L204 | ●        | 1.0       | 1.2                 | 4            | 50           | 4                |          |
| S-EMML2010L206 | ●        | 1.0       | 1.2                 | 6            | 50           | 4                |          |
| S-EMML2010L208 | ●        | 1.0       | 1.2                 | 8            | 50           | 4                |          |
| S-EMML2010L210 | ●        | 1.0       | 1.2                 | 10           | 50           | 4                |          |
| S-EMML2010L212 | ●        | 1.0       | 1.2                 | 12           | 50           | 4                |          |
| S-EMML2015L204 | ●        | 1.5       | 1.7                 | 4            | 50           | 4                |          |
| S-EMML2015L206 | ●        | 1.5       | 1.7                 | 6            | 50           | 4                |          |
| S-EMML2015L208 | ●        | 1.5       | 1.7                 | 8            | 50           | 4                |          |
| S-EMML2015L210 | ●        | 1.5       | 1.7                 | 10           | 50           | 4                |          |
| S-EMML2015L212 | ●        | 1.5       | 1.7                 | 12           | 50           | 4                |          |
| S-EMML2020L206 | ●        | 2.0       | 2.2                 | 6            | 50           | 4                |          |
| S-EMML2020L208 | ●        | 2.0       | 2.2                 | 8            | 50           | 4                |          |
| S-EMML2020L210 | ●        | 2.0       | 2.2                 | 10           | 50           | 4                |          |
| S-EMML2020L212 | ●        | 2.0       | 2.2                 | 12           | 50           | 4                |          |
| S-EMML2020L214 | ●        | 2.0       | 2.2                 | 14           | 50           | 4                |          |
| S-EMML2020L216 | ●        | 2.0       | 2.2                 | 16           | 50           | 4                |          |
| S-EMML2030L208 | ●        | 3.0       | 3.2                 | 8            | 50           | 4                |          |
| S-EMML2030L210 | ●        | 3.0       | 3.2                 | 10           | 50           | 4                |          |
| S-EMML2030L212 | ●        | 3.0       | 3.2                 | 12           | 50           | 4                |          |
| S-EMML2030L214 | ●        | 3.0       | 3.2                 | 14           | 50           | 4                |          |
| S-EMML2030L216 | ●        | 3.0       | 3.2                 | 16           | 50           | 4                |          |
| S-EMML2030L220 | ●        | 3.0       | 3.2                 | 20           | 50           | 4                |          |

# S-EMML2000-00系列切削參數

The Cutting Data For S-EMML2000-00 Series

| 被加工材質<br>Material        | 鋼、不鏽鋼、鑄鐵 Steel、Stainless steel、Iron cast                                          |                  |                                                                                   |
|--------------------------|-----------------------------------------------------------------------------------|------------------|-----------------------------------------------------------------------------------|
| 直徑 Shank(mm)             | 轉速 n (min)                                                                        | 進給速度 Vf (mm/min) |                                                                                   |
|                          |                                                                                   | 開槽 Slotted       | 側邊 Side                                                                           |
| 4                        | 4800                                                                              | 135              | 475                                                                               |
| 6                        | 3100                                                                              | 120              | 325                                                                               |
| 8                        | 2300                                                                              | 120              | 375                                                                               |
| 10                       | 1900                                                                              | 120              | 375                                                                               |
| 12                       | 1600                                                                              | 120              | 275                                                                               |
| 16                       | 1200                                                                              | 135              | 200                                                                               |
| 18                       | 1100                                                                              | 135              | 175                                                                               |
| 20                       | 950                                                                               | 135              | 165                                                                               |
| 切深量 Depth<br>(D : 刃徑F.D) | 開槽 Slotted                                                                        |                  | 側邊 Side                                                                           |
|                          |  |                  |  |

 A  
刀片  
INSERT

 B  
鎢鋼端銑刀  
CARBIDE END MILL

 C  
外徑車刀架  
TOOL HOLDER

 D  
外徑出水車刀架  
TOOL HOLDER  
WITH COOLANT

 E  
走心式車刀架  
AUTOMATIC LATHE

 F  
手工工具  
HAND TOOLS

 G  
內徑車刀架  
BORING BAR

 H  
切斷刀架  
GROOVING

 I  
銑刀  
END MILL  
CUTTER

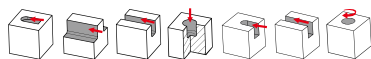
 J  
快速鑽頭  
RAPID DRILL

 K  
機床配件  
MACHINE  
ACCESSORIES



# EMM 2000

## 2 刃立銑刀 2 Flutes End Mill



新規格上市  
New Specification Arrival

M 500

MG

CO 10%

HRC <55

35

Alfin

A  
刀片  
INSERT

B  
鎢鋼端銑刀  
CARBIDE END MILL

C  
外徑車刀架  
TOOL HOLDER

D  
外徑出水車刀架  
TOOL HOLDER WITH COOLANT

E  
走心式車刀架  
AUTOMATIC LATHES

F  
手工具  
HAND TOOLS

G  
內徑車刀架  
BORING BAR

H  
切斷刀架  
GROOVING

I  
銑刀  
END MILL CUTTER

J  
快速鑽頭  
RAPID DRILL

K  
機床配件  
MACHINE ACCESSORIES

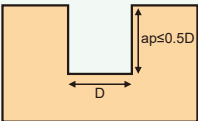
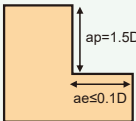
| 產品型號 Model No    | 在庫 Stock | 刃徑(d) F.D | 刃長(L1) Flute Length | 全長(L) O.A.L. | 柄徑(D) Shank Dia. | 價格 Price |
|------------------|----------|-----------|---------------------|--------------|------------------|----------|
| EMM2010          | ●        | 1.0       | 2.5                 | 50           | 4                |          |
| NEW EMM2011L1033 | ●        | 1.1       | 3.3                 | 50           | 4                |          |
| NEW EMM2012L1036 | ●        | 1.2       | 3.6                 | 50           | 4                |          |
| NEW EMM2013L1039 | ●        | 1.3       | 3.9                 | 50           | 4                |          |
| NEW EMM2014L1042 | ●        | 1.4       | 4.2                 | 50           | 4                |          |
| EMM2015          | ●        | 1.5       | 3.75                | 50           | 4                |          |
| NEW EMM205L1045  | ●        | 1.5       | 4.5                 | 50           | 4                |          |
| NEW EMM2016L1048 | ●        | 1.6       | 4.8                 | 50           | 4                |          |
| NEW EMM2017L1051 | ●        | 1.7       | 5.1                 | 50           | 4                |          |
| NEW EMM2018L1054 | ●        | 1.8       | 5.4                 | 50           | 4                |          |
| NEW EMM2019L1057 | ●        | 1.9       | 5.7                 | 50           | 4                |          |
| EMM2020          | ●        | 2.0       | 5                   | 50           | 4                |          |
| NEW EMM2020D6    | ●        | 2.0       | 5                   | 50           | 6                |          |
| NEW EMM2020L16   | ●        | 2.0       | 6                   | 50           | 4                |          |
| EMM2021L1063     | ●        | 2.1       | 6.3                 | 50           | 4                |          |
| NEW EMM2022L1066 | ●        | 2.2       | 6.6                 | 50           | 4                |          |
| NEW EMM2023L1069 | ●        | 2.3       | 6.9                 | 50           | 4                |          |
| NEW EMM2024L1072 | ●        | 2.4       | 7.2                 | 50           | 4                |          |
| EMM2025          | ●        | 2.5       | 6.25                | 50           | 4                |          |
| NEW EMM2025D6    | ●        | 2.5       | 12.5                | 50           | 6                |          |
| NEW EMM2025L1075 | ●        | 2.5       | 7.5                 | 50           | 6                |          |
| NEW EMM2026L1078 | ●        | 2.6       | 7.8                 | 50           | 4                |          |
| NEW EMM2027L1081 | ●        | 2.7       | 8.1                 | 50           | 4                |          |
| NEW EMM2028L1084 | ●        | 2.8       | 8.4                 | 50           | 4                |          |
| NEW EMM2029L1087 | ●        | 2.9       | 8.7                 | 50           | 4                |          |
| EMM2030          | ●        | 3.0       | 7.5                 | 50           | 4                |          |
| NEW EMM2030D6    | ●        | 3.0       | 7.5                 | 50           | 6                |          |
| NEW EMM2035      | ●        | 3.5       | 8.75                | 50           | 4                |          |
| NEW EMM2035D6    | ●        | 3.5       | 8.75                | 50           | 6                |          |

※ 請接下頁。 ※ Continued on next page.

|                                                 | 產品型號 Model No          | 在庫 Stock | 刃徑(d) F.D | 刃長(L1) Flute Length | 全長(L) O.A.L. | 柄徑(D) Shank Dia. | 價格 Price |
|-------------------------------------------------|------------------------|----------|-----------|---------------------|--------------|------------------|----------|
| <b>A</b><br>刀片<br>INSERT                        | EMM2040                | ●        | 4.0       | 10                  | 50           | 4                |          |
|                                                 | <b>NEW</b> EMM2040D6   | ●        | 4.0       | 10                  | 50           | 4                |          |
| <b>B</b><br>鎢鋼端銑刀<br>CARBIDE END MILL           | EMM2040E1              | ●        | 4.0       | 10                  | 75           | 4                |          |
|                                                 | EMM2050                | ●        | 5.0       | 12.5                | 50           | 6                |          |
|                                                 | EMM2050E1              | ●        | 5.0       | 12.5                | 75           | 6                |          |
|                                                 | <b>NEW</b> EMM2050H    | ●        | 5.0       | 12.5                | 100          | 6                |          |
| <b>C</b><br>外徑車刀架<br>TOOL HOLDER                | <b>NEW</b> EMM2055     | ●        | 5.5       | 13.75               | 50           | 6                |          |
|                                                 | EMM2060                | ●        | 6.0       | 15                  | 50           | 6                |          |
|                                                 | EMM2060E1              | ●        | 6.0       | 15                  | 75           | 6                |          |
|                                                 | EMM2060H               | ●        | 6.0       | 15                  | 100          | 6                |          |
| <b>D</b><br>外徑出水車刀架<br>TOOL HOLDER WITH COOLANT | EMM2070                | ●        | 7.0       | 17.5                | 60           | 8                |          |
|                                                 | EMM2080                | ●        | 8.0       | 20                  | 60           | 8                |          |
|                                                 | EMM2080E1              | ●        | 8.0       | 20                  | 75           | 8                |          |
|                                                 | EMM2080H               | ●        | 8.0       | 20                  | 100          | 8                |          |
| <b>E</b><br>走心式車刀架<br>AUTOMATIC LATHES          | EMM2080M               | ●        | 8.0       | 20                  | 150          | 8                |          |
|                                                 | <b>NEW</b> EMM2080T030 | ●        | 8.0       | 20                  | 60           | 8                |          |
|                                                 | <b>NEW</b> EMM2090     | ●        | 9.0       | 22.5                | 75           | 10               |          |
|                                                 | EMM2100                | ●        | 10.0      | 25                  | 75           | 10               |          |
| <b>F</b><br>手工具<br>HAND TOOLS                   | EMM2100H               | ●        | 10.0      | 25                  | 100          | 10               |          |
|                                                 | <b>NEW</b> EMM2100L130 | ●        | 10.0      | 30                  | 75           | 10               |          |
|                                                 | EMM2100M               | ●        | 10.0      | 25                  | 150          | 10               |          |
|                                                 | EMM2120                | ●        | 12.0      | 30                  | 75           | 12               |          |
| <b>G</b><br>內徑車刀架<br>BORING BAR                 | EMM2120H               | ●        | 12.0      | 30                  | 100          | 12               |          |
|                                                 | EMM2120M               | ●        | 12.0      | 30                  | 150          | 12               |          |
|                                                 | EMM2160                | ●        | 16.0      | 48                  | 100          | 16               |          |
|                                                 | EMM2160M               | ●        | 16.0      | 48                  | 150          | 16               |          |
| <b>H</b><br>切斷刀架<br>GROOVING                    | EMM2160R               | ●        | 16.0      | 48                  | 200          | 16               |          |
|                                                 | EMM2200                | ●        | 20.0      | 50                  | 100          | 20               |          |
|                                                 | EMM2200M               | ●        | 20.0      | 50                  | 150          | 20               |          |
|                                                 | EMM2200R               | ●        | 20.0      | 50                  | 200          | 20               |          |
| <b>I</b><br>銑刀<br>END MILL CUTTER               | <b>NEW</b> EMM3050     | ●        | 5.0       | 12.5                | 50           | 6                |          |
|                                                 | <b>NEW</b> EMM3060     | ●        | 6.0       | 15                  | 50           | 6                |          |
|                                                 | <b>NEW</b> EMM3080     | ●        | 8.0       | 20                  | 60           | 8                |          |
|                                                 | <b>NEW</b> EMM3100     | ●        | 10.0      | 25                  | 75           | 10               |          |
| <b>J</b><br>快速鑽頭<br>RAPID DRILL                 |                        |          |           |                     |              |                  |          |
|                                                 |                        |          |           |                     |              |                  |          |
|                                                 |                        |          |           |                     |              |                  |          |
|                                                 |                        |          |           |                     |              |                  |          |
| <b>K</b><br>機床配件<br>MACHINE ACCESSORIES         |                        |          |           |                     |              |                  |          |
|                                                 |                        |          |           |                     |              |                  |          |
|                                                 |                        |          |           |                     |              |                  |          |
|                                                 |                        |          |           |                     |              |                  |          |

# EMM2000系列切削參數

The Cutting Data For EMM2000 Series

| 被加工材質<br>Material        | 鋼、不鏽鋼、鑄鐵 Steel、Stainless steel、Iron cast                                                     |                                                                                           |         |
|--------------------------|----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|---------|
| 直徑 Shank(mm)             | 轉速 n (min)                                                                                   | 進給速度 Vf (mm/min)                                                                          |         |
|                          |                                                                                              | 開槽 Slotted                                                                                | 側邊 Side |
| 4                        | 4800                                                                                         | 135                                                                                       | 475     |
| 6                        | 3100                                                                                         | 120                                                                                       | 325     |
| 8                        | 2300                                                                                         | 120                                                                                       | 375     |
| 10                       | 1900                                                                                         | 120                                                                                       | 375     |
| 12                       | 1600                                                                                         | 120                                                                                       | 275     |
| 16                       | 1200                                                                                         | 135                                                                                       | 200     |
| 18                       | 1100                                                                                         | 135                                                                                       | 175     |
| 20                       | 950                                                                                          | 135                                                                                       | 165     |
| 切深量 Depth<br>(D : 刃徑F.D) | 開槽 Slotted  | 側邊 Side  |         |

A  
刀片  
INSERT

B  
鎢鋼端銑刀  
CARBIDE END MILL

C  
外徑車刀架  
TOOL HOLDER

D  
外徑出水車刀架  
TOOL HOLDER WITH COOLANT

E  
走心式車刀架  
AUTOMATIC LATHES

F  
手工具  
HAND TOOLS

G  
內徑車刀架  
BORING BAR

H  
切斷刀架  
GROOVING

I  
銑刀  
END MILL CUTTER

J  
快速鑽頭  
RAPID DRILL

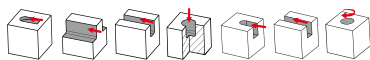
K  
機床配件  
MACHINE ACCESSORIES

**A**  
 刀片  
 INSERT

**EMM 4000**

 4 刃立銼刀  
 4 Flutes End Mill

**B**

 鎢鋼端銼刀  
 CARBIDE END MILL

 新規格上市  
 New Specification Arrival

M 500

MG

CO 10%

HRC &lt;55

35

Altin

**C**

 外徑車刀架  
 TOOL HOLDER

**D**

 外徑出水車刀架  
 TOOL HOLDER WITH COOLANT

**E**

 走心式車刀架  
 AUTOMATIC LATHES

**F**

 手工工具  
 HAND TOOLS

**G**

 內徑車刀架  
 BORING BAR

**H**

 切斷刀架  
 GROOVING

**I**

 銼刀  
 END MILL CUTTER

**J**

 快速鑽頭  
 RAPID DRILL

**K**

 機床配件  
 MACHINE ACCESSORIES

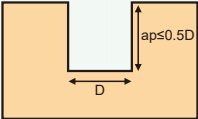
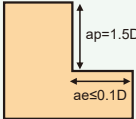
| 產品型號 Model No        | 在庫 Stock | 刃徑(d) F.D | 刃長(L1) Flute Length | 全長(L) O.A.L. | 柄徑(D) Shank Dia. | 價格 Price |
|----------------------|----------|-----------|---------------------|--------------|------------------|----------|
| EMM4010              | ●        | 1.0       | 2.5                 | 50           | 4                |          |
| <b>NEW</b> EMM4010D6 | ●        | 1.0       | 2.5                 | 50           | 6                |          |
| EMM4015              | ●        | 1.5       | 3.75                | 50           | 4                |          |
| <b>NEW</b> EMM4015D6 | ●        | 1.5       | 3.75                | 50           | 6                |          |
| EMM4020              | ●        | 2.0       | 5                   | 50           | 4                |          |
| <b>NEW</b> EMM4020D6 | ●        | 2.0       | 5                   | 50           | 6                |          |
| EMM4025              | ●        | 2.5       | 6.25                | 50           | 4                |          |
| EMM4030              | ●        | 3.0       | 7.5                 | 50           | 4                |          |
| EMM4030E1            | ●        | 3.0       | 7.5                 | 75           | 4                |          |
| EMM4030D6            | ●        | 3.0       | 7.5                 | 50           | 6                |          |
| EMM4035              | ●        | 3.5       | 8.75                | 50           | 4                |          |
| <b>NEW</b> EMM4035D6 | ●        | 3.5       | 8.75                | 50           | 6                |          |
| EMM4040              | ●        | 4.0       | 10                  | 50           | 4                |          |
| EMM4040D6            | ●        | 4.0       | 10                  | 50           | 6                |          |
| EMM4040E1            | ●        | 4.0       | 10                  | 75           | 4                |          |
| EMM4040H             | ●        | 4.0       | 10                  | 100          | 4                |          |
| <b>NEW</b> EMM4045   | ●        | 4.5       | 11.25               | 50           | 4                |          |
| EMM4050              | ●        | 5.0       | 12.5                | 50           | 6                |          |
| EMM4050E1            | ●        | 5.0       | 12.5                | 75           | 6                |          |
| EMM4050H             | ●        | 5.0       | 12.5                | 100          | 6                |          |
| EMM4055              | ●        | 5.5       | 13.75               | 50           | 6                |          |
| EMM4060              | ●        | 6.0       | 15                  | 50           | 6                |          |
| EMM4060E1            | ●        | 6.0       | 15                  | 75           | 6                |          |
| EMM4060H             | ●        | 6.0       | 15                  | 100          | 6                |          |
| <b>NEW</b> EMM4070   | ●        | 7.0       | 17.5                | 60           | 8                |          |
| EMM4080              | ●        | 8.0       | 20                  | 60           | 8                |          |
| EMM4080E1            | ●        | 8.0       | 20                  | 75           | 8                |          |
| EMM4080H             | ●        | 8.0       | 20                  | 100          | 8                |          |
| EMM4080M             | ●        | 8.0       | 20                  | 150          | 8                |          |

※ 請接下頁。 ※ Continued on next page.

| 產品型號 Model No          | 在庫 Stock | 刃徑(d) F.D | 刃長(L1) Flute Lenght | 全長(L) O.A.L. | 柄徑(D) Shank Dia. | 價格 Price |
|------------------------|----------|-----------|---------------------|--------------|------------------|----------|
| EMM4100                | ●        | 10.0      | 25                  | 75           | 10               |          |
| EMM4100H               | ●        | 10.0      | 25                  | 100          | 10               |          |
| EMM4100M               | ●        | 10.0      | 25                  | 150          | 10               |          |
| EMM4120                | ●        | 12.0      | 30                  | 75           | 12               |          |
| EMM4120H               | ●        | 12.0      | 30                  | 100          | 12               |          |
| <b>NEW</b> EMM4120L136 | ●        | 12.0      | 36                  | 75           | 12               |          |
| EMM4120M               | ●        | 12.0      | 30                  | 150          | 12               |          |
| EMM4140                | ●        | 14.0      | 35                  | 100          | 12               |          |
| EMM4160                | ●        | 16.0      | 48                  | 100          | 16               |          |
| EMM4160M               | ●        | 16.0      | 48                  | 150          | 16               |          |
| EMM4160R               | ●        | 16.0      | 48                  | 200          | 16               |          |
| EMM4200                | ●        | 20.0      | 50                  | 100          | 20               |          |
| EMM4200M               | ●        | 20.0      | 50                  | 150          | 20               |          |
| EMM4200R               | ●        | 20.0      | 50                  | 200          | 20               |          |

## EMM4000系列切削參數

The Cutting Data For EMM4000 Series

| 被加工材質 Material           | 鋼、不鏽鋼、鑄鐵 Steel、Stainless steel、Iron cast |                                                                                     |                                                                                     |
|--------------------------|------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 直徑 Shank(mm)             | 轉速 n (min)                               | 進給速度 Vf (mm/min)                                                                    |                                                                                     |
|                          |                                          | 開槽 Slotted                                                                          | 側邊 Side                                                                             |
| 4                        | 4800                                     | 270                                                                                 | 950                                                                                 |
| 6                        | 3100                                     | 240                                                                                 | 650                                                                                 |
| 8                        | 2300                                     | 240                                                                                 | 750                                                                                 |
| 10                       | 1900                                     | 240                                                                                 | 750                                                                                 |
| 12                       | 1600                                     | 240                                                                                 | 550                                                                                 |
| 16                       | 1200                                     | 270                                                                                 | 400                                                                                 |
| 18                       | 1100                                     | 270                                                                                 | 350                                                                                 |
| 20                       | 950                                      | 270                                                                                 | 320                                                                                 |
| 切深量 Depth<br>(D : 刃徑F.D) | 開槽 Slotted                               |  | 側邊 Side                                                                             |
|                          |                                          |                                                                                     |  |

Long Flute 4 Flutes End Mill 長刃型 4 刃立銑刀



A  
刀片  
INSERT

B  
鎢鋼端銑刀  
CARBIDE END MILL

C  
外徑車刀架  
TOOL HOLDER

D  
外徑出水車刀架  
TOOL HOLDER  
WITH COOLANT

E  
走心式車刀架  
AUTOMATIC LATHES

F  
手工具  
HAND TOOLS

G  
內徑車刀架  
BORING BAR

H  
切斷刀架  
GROOVING

I  
銑刀  
END MILL  
CUTTER

J  
快速鑽頭  
RAPID DRILL

K  
機床配件  
MACHINE  
ACCESSORIES

A  
刀片  
INSERT

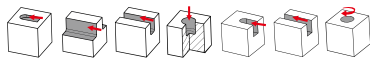
## EMML 4000

長刃型 4 刃立銑刀

Long Flute 4 Flutes End Mill



B  
鈾鋼端銑刀  
CARBIDE END MILL



新規格上市  
New Specification Arrival

M 500

MG

CO 10%

HRC <55

35

Alfin

C  
外徑車刀架  
TOOL HOLDER

D  
外徑出水車刀架  
TOOL HOLDER WITH COOLANT

E  
走心式車刀架  
AUTOMATIC LATHES

F  
手工工具  
HAND TOOLS

G  
內徑車刀架  
BORING BAR

H  
切斷刀架  
GROOVING

I  
銑刀  
END MILL CUTTER

J  
快速鑽頭  
RAPID DRILL

K  
機床配件  
MACHINE ACCESSORIES

| 產品型號 Model No   | 在庫 Stock | 刃徑(d) F.D | 刃長(L1) Flute Length | 全長(L) O.A.L. | 柄徑(D) Shank Dia. | 價格 Price |
|-----------------|----------|-----------|---------------------|--------------|------------------|----------|
| EMM4040L120E1   | ●        | 4.0       | 20                  | 75           | 4                |          |
| EMM4050L125E1   | ●        | 5.0       | 25                  | 75           | 6                |          |
| EMM4060L125E1   | ●        | 6.0       | 25                  | 75           | 6                |          |
| EMM4060L130H    | ●        | 6.0       | 30                  | 100          | 6                |          |
| EMM4080L130E1   | ●        | 8.0       | 30                  | 75           | 8                |          |
| EMM4080L135H    | ●        | 8.0       | 34                  | 100          | 8                |          |
| EMM4080L140M    | ●        | 8.0       | 40                  | 150          | 8                |          |
| NEW EMM4100L130 | ●        | 10.0      | 30                  | 75           | 10               |          |
| EMM4100L140H    | ●        | 10.0      | 40                  | 100          | 10               |          |
| EMM4100L150M    | ●        | 10.0      | 50                  | 150          | 10               |          |
| EMM4120L145H    | ●        | 12.0      | 45                  | 100          | 12               |          |
| EMM4120L150M    | ●        | 12.0      | 50                  | 150          | 12               |          |
| EMM4160L170M    | ●        | 16.0      | 70                  | 150          | 16               |          |
| EMM4200L180M    | ●        | 20.0      | 80                  | 150          | 20               |          |

## EMML4000系列切削參數

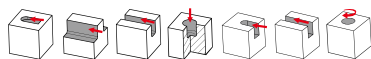
The Cutting Data For EMML4000 Series

| 被加工材質<br>Material        | 鋼、不鏽鋼、鑄鐵 Steel、Stainless steel、Iron cast |                  |         |
|--------------------------|------------------------------------------|------------------|---------|
| 直徑 Shank(mm)             | 轉速 n (min)                               | 進給速度 Vf (mm/min) |         |
|                          |                                          | 開槽 Slotted       | 側邊 Side |
| 4                        | 4800                                     | 270              | 950     |
| 6                        | 3100                                     | 240              | 650     |
| 8                        | 2300                                     | 240              | 750     |
| 10                       | 1900                                     | 240              | 750     |
| 12                       | 1600                                     | 240              | 550     |
| 16                       | 1200                                     | 270              | 400     |
| 18                       | 1100                                     | 270              | 350     |
| 20                       | 950                                      | 270              | 320     |
| 切深量 Depth<br>(D : 刃徑F.D) | 開槽 Slotted                               |                  | 側邊 Side |
|                          |                                          |                  |         |

# GMM 4000

## 4 刃立銑刀

## 4 Flutes End Mill



新規格上市  
New Specification Arrival

M 500

MG

CO 10%

HRC <55

45

Alfin

A  
刀片  
INSERT

B  
鎢鋼端銑刀  
CARBIDE END MILL

C  
外徑車刀架  
TOOL HOLDER

D  
外徑出水車刀架  
TOOL HOLDER WITH COOLANT

E  
走心式車刀架  
AUTOMATIC LATHES

F  
手工具  
HAND TOOLS

G  
內徑車刀架  
BORING BAR

H  
切斷刀架  
GROOVING

I  
銑刀  
END MILL CUTTER

J  
快速鑽頭  
RAPID DRILL

K  
機床配件  
MACHINE ACCESSORIES

| 產品型號 Model No     | 在庫 Stock | 刃徑(d) F.D | 刃長(L1) Flute Lenght | 全長(L) O.A.L. | 柄徑(D) Shank Dia. | 價格 Price |
|-------------------|----------|-----------|---------------------|--------------|------------------|----------|
| GMM4010           | ●        | 1.0       | 2.5                 | 50           | 4                |          |
| GMM4010L103       | ●        | 1.0       | 3                   | 50           | 4                |          |
| GMM4015           | ●        | 1.5       | 3.75                | 50           | 4                |          |
| GMM4015L104       | ●        | 1.5       | 4                   | 50           | 4                |          |
| GMM4020           | ●        | 2.0       | 5                   | 50           | 4                |          |
| GMM4020L106       | ●        | 2.0       | 6                   | 50           | 4                |          |
| GMM4025           | ●        | 2.5       | 6.25                | 50           | 4                |          |
| GMM4025L107       | ●        | 2.5       | 7                   | 50           | 4                |          |
| GMM4025L1075      | ●        | 2.5       | 7.5                 | 50           | 4                |          |
| GMM4030           | ●        | 3.0       | 7.5                 | 50           | 4                |          |
| NEW GMM4030L112D6 | ●        | 3.0       | 12                  | 50           | 4                |          |
| NEW GMM4030L18    | ●        | 3.0       | 8                   | 50           | 4                |          |
| GMM4035           | ●        | 3.5       | 8.75                | 50           | 4                |          |
| GMM4040           | ●        | 4.0       | 10                  | 50           | 4                |          |
| NEW GMM4040L112   | ●        | 4.0       | 12                  | 50           | 4                |          |
| GMM4045           | ●        | 4.5       | 11.25               | 50           | 6                |          |
| GMM4050           | ●        | 5.0       | 12.5                | 50           | 6                |          |
| GMM4050L115       | ●        | 5.0       | 15                  | 50           | 6                |          |
| GMM4055           | ●        | 5.5       | 13.75               | 50           | 6                |          |
| GMM4060           | ●        | 6.0       | 15                  | 50           | 6                |          |
| GMM4065           | ●        | 6.5       | 16.25               | 60           | 8                |          |
| GMM4070           | ●        | 7.0       | 17.5                | 60           | 8                |          |
| GMM4075           | ●        | 7.5       | 18.75               | 60           | 8                |          |
| GMM4080           | ●        | 8.0       | 20                  | 60           | 8                |          |
| GMM4085           | ●        | 8.5       | 21.25               | 75           | 10               |          |
| GMM4090           | ●        | 9.0       | 22.5                | 75           | 10               |          |
| GMM4095           | ●        | 9.5       | 23.75               | 75           | 10               |          |
| GMM4100           | ●        | 10.0      | 25                  | 75           | 10               |          |

※ 請接下頁。 ※ Continued on next page.

|                                          | 產品型號 Model No | 在庫 Stock | 刃徑(d) F.D | 刃長(L1) Flute Lenght | 全長(L) O.A.L. | 柄徑(D) Shank Dia. | 價格 Price |
|------------------------------------------|---------------|----------|-----------|---------------------|--------------|------------------|----------|
| A<br>刀片<br>INSERT                        | GMM4105       | ●        | 10.5      | 26.25               | 75           | 12               |          |
|                                          | GMM4110       | ●        | 11.0      | 27.5                | 75           | 12               |          |
| B<br>鎢鋼端銑刀<br>CARBIDE END MILL           | GMM4115       | ●        | 11.5      | 28.75               | 75           | 12               |          |
|                                          | GMM4120       | ●        | 12.0      | 30                  | 100          | 12               |          |
|                                          | GMM4130       | ●        | 13.0      | 32.5                | 100          | 16               |          |
|                                          | GMM4140       | ●        | 14.0      | 35                  | 100          | 16               |          |
|                                          | GMM4150       | ●        | 15.0      | 37.5                | 100          | 16               |          |
| C<br>外徑車刀架<br>TOOL HOLDER                | GMM4160       | ●        | 16.0      | 48                  | 100          | 16               |          |
|                                          | GMM4170       | ●        | 17.0      | 42.5                | 100          | 20               |          |
|                                          | GMM4180       | ●        | 18.0      | 45                  | 100          | 20               |          |
| D<br>外徑出水車刀架<br>TOOL HOLDER WITH COOLANT | GMM4190       | ●        | 19.0      | 47.5                | 100          | 20               |          |
|                                          | GMM4200       | ●        | 20.0      | 50                  | 100          | 20               |          |
|                                          | GMM4220       | ●        | 22.0      | 55                  | 100          | 25               |          |
|                                          | GMM4250       | ●        | 25.0      | 62.5                | 100          | 25               |          |
| E<br>走心式車刀架<br>AUTOMATIC LATHES          |               |          |           |                     |              |                  |          |

F  
手工具  
HAND TOOLS

G  
內徑車刀架  
BORING BAR

H  
切斷刀架  
GROOVING

I  
銑刀  
END MILL CUTTER

J  
快速鑽頭  
RAPID DRILL

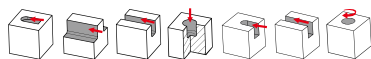
K  
機床配件  
MACHINE ACCESSORIES



# MU-EMM 4000

## 4 刃圓溝立銑刀

4 Flutes Rounded Land End Mill



| 產品型號 Model No               | 在庫 Stock | 刃徑(d) F.D | 刃長(L1) Flute Length | 全長(L) O.A.L. | 柄徑(D) Shank Dia. | 價格 Price |
|-----------------------------|----------|-----------|---------------------|--------------|------------------|----------|
| MU-EMM4030                  | ●        | 3.0       | 7.5                 | 50           | 4                |          |
| <b>NEW</b> MU-EMM4030L109D6 | ●        | 3.0       | 9                   | 50           | 6                |          |
| MU-EMM4030D6                | ●        | 3.0       | 7.5                 | 50           | 6                |          |
| <b>NEW</b> MU-EMM4031L1093  | ●        | 3.1       | 9.3                 | 50           | 4                |          |
| <b>NEW</b> MU-EMM4032L1096  | ●        | 3.2       | 9.6                 | 50           | 4                |          |
| <b>NEW</b> MU-EMM4033L1099  | ●        | 3.3       | 9.9                 | 50           | 4                |          |
| <b>NEW</b> MU-EMM4034L1102  | ●        | 3.4       | 10.2                | 50           | 4                |          |
| <b>NEW</b> MU-EMM4035L1105  | ●        | 3.5       | 10.5                | 50           | 4                |          |
| <b>NEW</b> MU-EMM4036L1108  | ●        | 3.6       | 10.8                | 50           | 4                |          |
| <b>NEW</b> MU-EMM4037L1111  | ●        | 3.7       | 11.1                | 50           | 4                |          |
| <b>NEW</b> MU-EMM4038L1114  | ●        | 3.8       | 11.4                | 50           | 4                |          |
| <b>NEW</b> MU-EMM4039L1117  | ●        | 3.9       | 11.7                | 50           | 4                |          |
| MU-EMM4040                  | ●        | 4.0       | 10                  | 50           | 4                |          |
| <b>NEW</b> MU-EMM4040D6     | ●        | 4.0       | 10                  | 50           | 6                |          |
| <b>NEW</b> MU-EMM4040L112   | ●        | 4.0       | 12                  | 50           | 4                |          |
| <b>NEW</b> MU-EMM4040L112D6 | ●        | 4.0       | 12                  | 50           | 6                |          |
| <b>NEW</b> MU-EMM4041L1123  | ●        | 4.1       | 12.3                | 50           | 6                |          |
| <b>NEW</b> MU-EMM4042L1126  | ●        | 4.2       | 12.6                | 50           | 6                |          |
| <b>NEW</b> MU-EMM4043L1129  | ●        | 4.3       | 12.9                | 50           | 6                |          |
| <b>NEW</b> MU-EMM4044L1132  | ●        | 4.4       | 13.2                | 50           | 6                |          |
| <b>NEW</b> MU-EMM4045L1135  | ●        | 4.5       | 13.5                | 50           | 6                |          |
| <b>NEW</b> MU-EMM4046L1138  | ●        | 4.6       | 13.8                | 50           | 6                |          |
| <b>NEW</b> MU-EMM4047L1141  | ●        | 4.7       | 14.1                | 50           | 6                |          |
| <b>NEW</b> MU-EMM4048L1144  | ●        | 4.8       | 14.4                | 50           | 6                |          |
| <b>NEW</b> MU-EMM4049L1147  | ●        | 4.9       | 14.7                | 50           | 6                |          |
| <b>NEW</b> MU-EMM4050       | ●        | 5.0       | 12.5                | 50           | 6                |          |
| <b>NEW</b> MU-EMM4050L115   | ●        | 5.0       | 15                  | 50           | 6                |          |
| <b>NEW</b> MU-EMM4051L1153  | ●        | 5.1       | 15.3                | 50           | 6                |          |
| <b>NEW</b> MU-EMM4052L1156  | ●        | 5.2       | 15.6                | 50           | 6                |          |
| <b>NEW</b> MU-EMM4053L1159  | ●        | 5.3       | 15.9                | 50           | 6                |          |
| <b>NEW</b> MU-EMM4054L1162  | ●        | 5.4       | 16.2                | 50           | 6                |          |
| <b>NEW</b> MU-EMM4055       | ●        | 5.5       | 13.75               | 50           | 6                |          |

※ 請接下頁。 ※ Continued on next page.

A  
刀片  
INSERT

B  
鎢鋼端銑刀  
CARBIDE END MILL

C  
外徑車刀架  
TOOL HOLDER

D  
外徑出水車刀架  
TOOL HOLDER  
WITH COOLANT

E  
走心式車刀架  
AUTOMATIC LATHES

F  
手工具  
HAND TOOLS

G  
內徑車刀架  
BORING BAR

H  
切斷刀架  
GROOVING

I  
銑刀  
END MILL  
CUTTER

J  
快速鑽頭  
RAPID DRILL

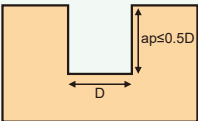
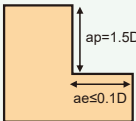
K  
機床配件  
MACHINE  
ACCESSORIES

|                                          | 產品型號 Model No              | 在庫 Stock | 刃徑(d) F.D | 刃長(L1) Flute Lenght | 全長(L) O.A.L. | 柄徑(D) Shank Dia. | 價格 Price |
|------------------------------------------|----------------------------|----------|-----------|---------------------|--------------|------------------|----------|
| A<br>刀片<br>INSERT                        | <b>NEW</b> MU-EMM4056L1168 | ●        | 5.6       | 16.8                | 50           | 6                |          |
|                                          | <b>NEW</b> MU-EMM4057L1171 | ●        | 5.7       | 17.1                | 50           | 6                |          |
| B<br>鎢鋼端銑刀<br>CARBIDE END MILL           | <b>NEW</b> MU-EMM4058L1174 | ●        | 5.8       | 17.4                | 50           | 6                |          |
|                                          | <b>NEW</b> MU-EMM4059L1177 | ●        | 5.8       | 17.7                | 50           | 6                |          |
|                                          | MU-EMM4060                 | ●        | 6.0       | 15                  | 50           | 6                |          |
|                                          | MU-EMM4060L118             | ●        | 6.0       | 18                  | 75           | 6                |          |
| C<br>外徑車刀架<br>TOOL HOLDER                | MU-EMM4060E1               | ●        | 6.0       | 15                  | 60           | 6                |          |
|                                          | <b>NEW</b> MU-EMM4061L1183 | ●        | 6.1       | 18.3                | 60           | 8                |          |
|                                          | <b>NEW</b> MU-EMM4062L1186 | ●        | 6.2       | 18.6                | 60           | 8                |          |
| D<br>外徑出水車刀架<br>TOOL HOLDER WITH COOLANT | <b>NEW</b> MU-EMM4063L1189 | ●        | 6.3       | 18.9                | 60           | 8                |          |
|                                          | <b>NEW</b> MU-EMM4070      | ●        | 7.0       | 17.5                | 60           | 8                |          |
|                                          | <b>NEW</b> MU-EMM4070L121  | ●        | 7.0       | 21                  | 60           | 8                |          |
|                                          | <b>NEW</b> MU-EMM4090      | ●        | 9.0       | 22.5                | 75           | 10               |          |
| E<br>走心式車刀架<br>AUTOMATIC LATHES          | <b>NEW</b> MU-EMM4090L127  | ●        | 9.0       | 27                  | 75           | 10               |          |
|                                          | <b>NEW</b> MU-EMM4080      | ●        | 8.0       | 20                  | 60           | 8                |          |
|                                          | <b>NEW</b> MU-EMM4080L124  | ●        | 8.0       | 24                  | 60           | 8                |          |
|                                          | <b>NEW</b> MU-EMM4100      | ●        | 10.0      | 25                  | 75           | 10               |          |
| F<br>手工具<br>HAND TOOLS                   | <b>NEW</b> MU-EMM4100L130  | ●        | 10.0      | 30                  | 75           | 10               |          |
|                                          | <b>NEW</b> MU-EMM4120      | ●        | 12.0      | 30                  | 75           | 12               |          |
|                                          | <b>NEW</b> MU-EMM4120L136  | ●        | 12.0      | 36                  | 75           | 12               |          |
|                                          | <b>NEW</b> MU-EMM4140      | ●        | 14.0      | 35                  | 100          | 12               |          |
| G<br>內徑車刀架<br>BORING BAR                 | <b>NEW</b> MU-EMM4160      | ●        | 16.0      | 40                  | 100          | 6                |          |
|                                          | <b>NEW</b> MU-EMM4160L160M | ●        | 16.0      | 60                  | 150          | 16               |          |
|                                          | <b>NEW</b> MU-EMM4200      | ●        | 20.0      | 50                  | 100          | 20               |          |

**新規格持續擴增中**  
 The new specifications will continue to be expanded

# MU-EMM4000 系列切削參數

The Cutting Data For MU-EMM4000 Series

| 被加工材質<br>Material        | 鋼、不鏽鋼、鑄鐵 Steel、Stainless steel、Iron cast                                                     |                                                                                           |         |
|--------------------------|----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|---------|
| 直徑 Shank(mm)             | 轉速 n (min)                                                                                   | 進給速度 Vf (mm/min)                                                                          |         |
|                          |                                                                                              | 開槽 Slotted                                                                                | 側邊 Side |
| 4                        | 4800                                                                                         | 270                                                                                       | 950     |
| 6                        | 3100                                                                                         | 240                                                                                       | 650     |
| 8                        | 2300                                                                                         | 240                                                                                       | 750     |
| 10                       | 1900                                                                                         | 240                                                                                       | 650     |
| 12                       | 1600                                                                                         | 240                                                                                       | 550     |
| 16                       | 1200                                                                                         | 270                                                                                       | 400     |
| 18                       | 1100                                                                                         | 270                                                                                       | 350     |
| 20                       | 950                                                                                          | 270                                                                                       | 320     |
| 切深量 Depth<br>(D : 刃徑F.D) | 開槽 Slotted  | 側邊 Side  |         |

A  
刀片  
INSERT

B  
鎢鋼端銑刀  
CARBIDE END MILL

C  
外徑車刀架  
TOOL HOLDER

D  
外徑出水車刀架  
TOOL HOLDER  
WITH COOLANT

E  
走心式車刀架  
AUTOMATIC LATHES

F  
手工具  
HAND TOOLS

G  
內徑車刀架  
BORING BAR

H  
切斷刀架  
GROOVING

I  
銑刀  
END MILL  
CUTTER

J  
快速鑽頭  
RAPID DRILL

K  
機床配件  
MACHINE  
ACCESSORIES

A  
 刀片  
 INSERT

 B  
 鎢鋼端銑刀  
 CARBIDE END MILL

 C  
 外徑車刀架  
 TOOL HOLDER

 D  
 外徑出水車刀架  
 TOOL HOLDER  
 WITH COOLANT

 E  
 走心式車刀架  
 AUTOMATIC LATHES

 F  
 手工具  
 HAND TOOLS

 G  
 內徑車刀架  
 BORING BAR

 H  
 切斷刀架  
 GROOVING

 I  
 銑刀  
 END MILL  
 CUTTER

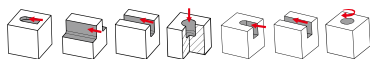
 J  
 快速鑽頭  
 RAPID DRILL

 K  
 機床配件  
 MACHINE  
 ACCESSORIES

# MU-GMM 4000

## 4 刃圓溝立銑刀

## 4 Flutes Rounded Land End Mill


 新規格上市  
 New Specification Arrival

 M  
 500

MG

 CO  
 10%

 HRC  
 <55

45

Altin

| 產品型號 Model No               | 在庫 Stock | 刃徑(d) F.D | 刃長(L1) Flute Lenght | 全長(L) O.A.L. | 柄徑(D) Shank Dia. | 價格 Price |
|-----------------------------|----------|-----------|---------------------|--------------|------------------|----------|
| MU-GMM4030                  | ●        | 3.0       | 7.5                 | 50           | 4                |          |
| <b>NEW</b> MU-GMM4030L109   | ●        | 3.0       | 10.9                | 50           | 4                |          |
| MU-GMM4030D6                | ●        | 3.0       | 7.5                 | 50           | 6                |          |
| <b>NEW</b> MU-GMM4031L1093  | ●        | 3.1       | 9.3                 | 50           | 4                |          |
| <b>NEW</b> MU-GMM4032L1096  | ●        | 3.2       | 9.6                 | 50           | 4                |          |
| <b>NEW</b> MU-GMM4033L1099  | ●        | 3.3       | 9.9                 | 50           | 4                |          |
| <b>NEW</b> MU-GMM4034L1102  | ●        | 3.4       | 10.2                | 50           | 4                |          |
| <b>NEW</b> MU-GMM4035L1105  | ●        | 3.5       | 10.5                | 50           | 4                |          |
| <b>NEW</b> MU-GMM4036L1108  | ●        | 3.6       | 10.8                | 50           | 4                |          |
| <b>NEW</b> MU-GMM4037L1111  | ●        | 3.7       | 11.1                | 50           | 4                |          |
| <b>NEW</b> MU-GMM4038L1114  | ●        | 3.8       | 11.4                | 50           | 4                |          |
| <b>NEW</b> MU-GMM4039L1117  | ●        | 3.9       | 11.7                | 50           | 4                |          |
| MU-GMM4040                  | ●        | 4.0       | 10                  | 50           | 4                |          |
| MU-GMM4040D6                | ●        | 4.0       | 10                  | 50           | 6                |          |
| <b>NEW</b> MU-GMM4040L112   | ●        | 4.0       | 12                  | 50           | 4                |          |
| <b>NEW</b> MU-GMM4040L112D6 | ●        | 4.0       | 12                  | 50           | 6                |          |
| <b>NEW</b> MU-GMM4041L1123  | ●        | 4.1       | 12.3                | 50           | 6                |          |
| <b>NEW</b> MU-GMM4042L1126  | ●        | 4.2       | 12.6                | 50           | 6                |          |
| <b>NEW</b> MU-GMM4043L1129  | ●        | 4.3       | 12.9                | 50           | 6                |          |
| <b>NEW</b> MU-GMM4044L1132  | ●        | 4.4       | 13.2                | 50           | 6                |          |
| <b>NEW</b> MU-GMM4045L1135  | ●        | 4.5       | 13.5                | 50           | 6                |          |
| <b>NEW</b> MU-GMM4046L1138  | ●        | 4.6       | 13.8                | 50           | 6                |          |
| <b>NEW</b> MU-GMM4047L1141  | ●        | 4.7       | 14.1                | 50           | 6                |          |
| <b>NEW</b> MU-GMM4048L1144  | ●        | 4.8       | 14.4                | 50           | 6                |          |
| <b>NEW</b> MU-GMM4049L1147  | ●        | 4.9       | 14.7                | 50           | 6                |          |
| MU-GMM4050                  | ●        | 5.0       | 12.5                | 50           | 6                |          |
| MU-GMM4050L115              | ●        | 5.0       | 15                  | 50           | 6                |          |
| <b>NEW</b> MU-GMM4051L1153  | ●        | 5.1       | 15.3                | 50           | 6                |          |
| <b>NEW</b> MU-GMM4052L1156  | ●        | 5.2       | 15.6                | 50           | 6                |          |
| <b>NEW</b> MU-GMM4053L1159  | ●        | 5.3       | 15.9                | 50           | 6                |          |
| <b>NEW</b> MU-GMM4054L1162  | ●        | 5.4       | 16.2                | 50           | 6                |          |

※ 請接下頁。 ※ Continued on next page.

| 產品型號 Model No              | 在庫 Stock | 刃徑(d) F.D | 刃長(L1) Flute Lenght | 全長(L) O.A.L. | 柄徑(D) Shank Dia. | 價格 Price |
|----------------------------|----------|-----------|---------------------|--------------|------------------|----------|
| MU-GMM4055                 | ●        | 5.5       | 13.74               | 50           | 6                |          |
| <b>NEW</b> MU-GMM4055L1165 | ●        | 5.5       | 16.5                | 50           | 6                |          |
| <b>NEW</b> MU-GMM4056L1168 | ●        | 5.6       | 16.8                | 50           | 6                |          |
| <b>NEW</b> MU-GMM4057L1171 | ●        | 5.7       | 17.1                | 50           | 6                |          |
| <b>NEW</b> MU-GMM4058L1174 | ●        | 5.8       | 17.4                | 50           | 6                |          |
| <b>NEW</b> MU-GMM4059L1177 | ●        | 5.8       | 17.7                | 50           | 6                |          |
| MU-GMM4060                 | ●        | 6.0       | 15                  | 50           | 6                |          |
| MU-GMM4060L118             | ●        | 6.0       | 18                  | 75           | 6                |          |
| MU-GMM4060E1               | ●        | 6.0       | 15                  | 75           | 6                |          |
| <b>NEW</b> MU-GMM4061L1183 | ●        | 6.1       | 18.3                | 60           | 8                |          |
| <b>NEW</b> MU-GMM4062L1186 | ●        | 6.2       | 18.6                | 60           | 8                |          |
| <b>NEW</b> MU-GMM4063L1189 | ●        | 6.3       | 18.9                | 60           | 8                |          |
| <b>NEW</b> MU-GMM4064L1191 | ●        | 6.4       | 19.1                | 60           | 8                |          |
| <b>NEW</b> MU-GMM4064L1192 | ●        | 6.4       | 19.2                | 60           | 8                |          |
| MU-GMM4065                 | ●        | 6.5       | 16.25               | 60           | 8                |          |
| <b>NEW</b> MU-GMM4065L1195 | ●        | 6.5       | 19.5                | 60           | 8                |          |
| <b>NEW</b> MU-GMM4066L1198 | ●        | 6.6       | 19.8                | 60           | 8                |          |
| <b>NEW</b> MU-GMM4067L1201 | ●        | 6.7       | 20.1                | 60           | 8                |          |
| <b>NEW</b> MU-GMM4068L1204 | ●        | 6.8       | 20.4                | 60           | 8                |          |
| <b>NEW</b> MU-GMM4069L1207 | ●        | 6.9       | 20.7                | 60           | 8                |          |
| <b>NEW</b> MU-GMM4070      | ●        | 7.0       | 17.5                | 60           | 8                |          |
| <b>NEW</b> MU-GMM4070L121  | ●        | 7.0       | 21.0                | 60           | 8                |          |
| <b>NEW</b> MU-GMM4071L1213 | ●        | 7.1       | 21.3                | 60           | 8                |          |
| <b>NEW</b> MU-GMM4072L1216 | ●        | 7.2       | 21.6                | 60           | 8                |          |
| <b>NEW</b> MU-GMM4073L1219 | ●        | 7.3       | 21.9                | 60           | 8                |          |
| <b>NEW</b> MU-GMM4074L1222 | ●        | 7.4       | 22.2                | 60           | 8                |          |
| MU-GMM4075                 | ●        | 7.5       | 18.75               | 60           | 8                |          |
| <b>NEW</b> MU-GMM4075L1225 | ●        | 7.5       | 22.5                | 60           | 8                |          |
| <b>NEW</b> MU-GMM4076L1228 | ●        | 7.6       | 22.8                | 60           | 8                |          |
| <b>NEW</b> MU-GMM4077L1231 | ●        | 7.7       | 23.1                | 60           | 8                |          |
| <b>NEW</b> MU-GMM4078L1234 | ●        | 7.8       | 23.4                | 60           | 8                |          |
| <b>NEW</b> MU-GMM4079L1237 | ●        | 7.9       | 23.7                | 60           | 8                |          |
| MU-GMM4080                 | ●        | 8.0       | 20                  | 60           | 8                |          |
| <b>NEW</b> MU-GMM4080E1    | ●        | 8.0       | 20                  | 75           | 8                |          |
| <b>NEW</b> MU-GMM4080H     | ●        | 8.0       | 20                  | 100          | 8                |          |

※ 請接下頁。 ※ Continued on next page.

A  
刀片  
INSERT

B  
鎢鋼端銑刀  
CARBIDE END MILL

C  
外徑車刀架  
TOOL HOLDER

D  
外徑出水車刀架  
TOOL HOLDER  
WITH COOLANT

E  
走心式車刀架  
AUTOMATIC LATHES

F  
手工具  
HAND TOOLS

G  
內徑車刀架  
BORING BAR

H  
切斷刀架  
GROOVING

I  
銑刀  
END MILL  
CUTTER

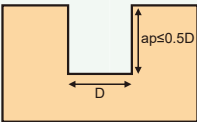
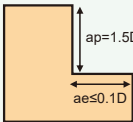
J  
快速鑽頭  
RAPID DRILL

K  
機床配件  
MACHINE  
ACCESSORIES

|                                                 | 產品型號 Model No              | 在庫 Stock | 刃徑(d) F.D | 刃長(L1) Flute Lenght | 全長(L) O.A.L. | 柄徑(D) Shank Dia. | 價格 Price |
|-------------------------------------------------|----------------------------|----------|-----------|---------------------|--------------|------------------|----------|
| <b>A</b><br>刀片<br>INSERT                        | <b>NEW</b> MU-GMM4080M     | ●        | 8.0       | 20                  | 150          | 8                |          |
|                                                 | MU-GMM4080L124             | ●        | 8.0       | 24                  | 60           | 8                |          |
| <b>B</b><br>鎢鋼端銑刀<br>CARBIDE END MILL           | <b>NEW</b> MU-GMM4081L1243 | ●        | 8.1       | 24.3                | 75           | 10               |          |
|                                                 | <b>NEW</b> MU-GMM4082L1246 | ●        | 8.2       | 24.6                | 75           | 10               |          |
| <b>C</b><br>外徑車刀架<br>TOOL HOLDER                | <b>NEW</b> MU-GMM4083L1249 | ●        | 8.3       | 24.9                | 75           | 10               |          |
|                                                 | <b>NEW</b> MU-GMM4084L1252 | ●        | 8.4       | 25.2                | 75           | 10               |          |
| <b>D</b><br>外徑出水車刀架<br>TOOL HOLDER WITH COOLANT | <b>NEW</b> MU-GMM4085L1255 | ●        | 8.5       | 25.5                | 75           | 10               |          |
|                                                 | <b>NEW</b> MU-GMM4086L1258 | ●        | 8.6       | 25.8                | 75           | 10               |          |
| <b>E</b><br>走心式車刀架<br>AUTOMATIC LATHES          | <b>NEW</b> MU-GMM4087L1261 | ●        | 8.7       | 26.1                | 75           | 10               |          |
|                                                 | <b>NEW</b> MU-GMM4088L1264 | ●        | 8.8       | 26.4                | 75           | 10               |          |
| <b>F</b><br>手工工具<br>HAND TOOLS                  | <b>NEW</b> MU-GMM4089L1267 | ●        | 8.9       | 26.7                | 75           | 10               |          |
|                                                 | <b>NEW</b> MU-GMM4090      | ●        | 9.0       | 22.5                | 75           | 10               |          |
| <b>G</b><br>內徑車刀架<br>BORING BAR                 | MU-GMM4090L127             | ●        | 9.0       | 27                  | 75           | 10               |          |
|                                                 | <b>NEW</b> MU-GMM4091L1273 | ●        | 9.1       | 27.3                | 75           | 10               |          |
| <b>H</b><br>切斷刀架<br>GROOVING                    | <b>NEW</b> MU-GMM4092L1276 | ●        | 9.2       | 27.6                | 75           | 10               |          |
|                                                 | <b>NEW</b> MU-GMM4093L1279 | ●        | 9.3       | 27.9                | 75           | 10               |          |
| <b>I</b><br>銑刀<br>END MILL CUTTER               | MU-GMM4094L130             | ●        | 9.4       | 30                  | 75           | 10               |          |
|                                                 | <b>NEW</b> MU-GMM4094L1282 | ●        | 9.4       | 28.2                | 75           | 10               |          |
| <b>J</b><br>快速鑽頭<br>RAPID DRILL                 | <b>NEW</b> MU-GMM4095L1285 | ●        | 9.5       | 28.5                | 75           | 10               |          |
|                                                 | <b>NEW</b> MU-GMM4096L1288 | ●        | 9.6       | 28.8                | 75           | 10               |          |
| <b>K</b><br>機床配件<br>MACHINE ACCESSORIES         | <b>NEW</b> MU-GMM4097L1291 | ●        | 9.7       | 29.1                | 75           | 10               |          |
|                                                 | <b>NEW</b> MU-GMM4098L1294 | ●        | 9.8       | 29.4                | 75           | 10               |          |
|                                                 | <b>NEW</b> MU-GMM4099L1297 | ●        | 9.9       | 29.7                | 75           | 10               |          |
|                                                 | MU-GMM4100                 | ●        | 10.0      | 25                  | 75           | 10               |          |
|                                                 | MU-GMM4100H                | ●        | 10.0      | 25                  | 100          | 10               |          |
|                                                 | MU-GMM4100L130             | ●        | 10.0      | 30                  | 75           | 10               |          |
|                                                 | MU-GMM4100L130H            | ●        | 10.0      | 30                  | 100          | 10               |          |
|                                                 | MU-GMM4110                 | ●        | 11.0      | 27.5                | 75           | 12               |          |
|                                                 | <b>NEW</b> MU-GMM4120      | ●        | 12.0      | 30                  | 75           | 12               |          |
|                                                 | MU-GMM4120L136             | ●        | 12.0      | 36                  | 75           | 12               |          |
|                                                 | <b>NEW</b> MU-GMM4120H     | ●        | 12.0      | 30                  | 100          | 12               |          |
|                                                 | MU-GMM4140                 | ●        | 14.0      | 35                  | 100          | 12               |          |
|                                                 | MU-GMM4160                 | ●        | 16.0      | 48                  | 100          | 16               |          |
|                                                 | <b>NEW</b> MU-GMM4160L148  | ●        | 16.0      | 48                  | 100          | 16               |          |
|                                                 | <b>NEW</b> MU-GMM4160M     | ●        | 16.0      | 40                  | 150          | 16               |          |
|                                                 | MU-GMM4200                 | ●        | 20.0      | 50                  | 100          | 20               |          |

# MU-GMM4000 系列切削參數

The Cutting Data For MU-GMM4000 Series

| 被加工材質<br>Material        | 鋼、不鏽鋼、鑄鐵 Steel、Stainless steel、Iron cast                                          |                  |                                                                                   |
|--------------------------|-----------------------------------------------------------------------------------|------------------|-----------------------------------------------------------------------------------|
| 直徑 Shank(mm)             | 轉速 n (min)                                                                        | 進給速度 Vf (mm/min) |                                                                                   |
|                          |                                                                                   | 開槽 Slotted       | 側邊 Side                                                                           |
| 4                        | 4800                                                                              | 270              | 950                                                                               |
| 6                        | 3100                                                                              | 240              | 650                                                                               |
| 8                        | 2300                                                                              | 240              | 750                                                                               |
| 10                       | 1900                                                                              | 240              | 750                                                                               |
| 12                       | 1600                                                                              | 240              | 550                                                                               |
| 16                       | 1200                                                                              | 270              | 400                                                                               |
| 18                       | 1100                                                                              | 270              | 350                                                                               |
| 20                       | 950                                                                               | 270              | 320                                                                               |
| 切深量 Depth<br>(D : 刃徑F.D) | 開槽 Slotted                                                                        |                  | 側邊 Side                                                                           |
|                          |  |                  |  |

A  
刀片  
INSERT

B  
鎢鋼端銑刀  
CARBIDE END MILL

C  
外徑車刀架  
TOOL HOLDER

D  
外徑出水車刀架  
TOOL HOLDER WITH COOLANT

E  
走心式車刀架  
AUTOMATIC LATHES

F  
手工具  
HAND TOOLS

G  
內徑車刀架  
BORING BAR

H  
切斷刀架  
GROOVING

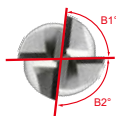
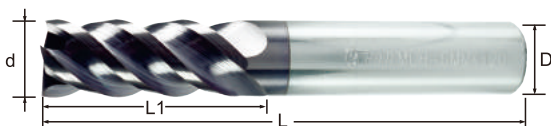
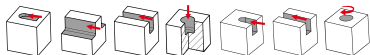
I  
銑刀  
END MILL CUTTER

J  
快速鑽頭  
RAPID DRILL

K  
機床配件  
MACHINE ACCESSORIES

A  
刀片  
INSERT

# MUH-GMM 4000

 不等分割 4 刃立銑刀  
4 Flutes Radius End Mill

 不等分割  
 $B1^\circ \neq B2^\circ$ 

 新品上市  
New Arrival

M500

MG

 CO  
10%

45°

Altin

 C  
外徑車刀架  
TOOL HOLDER

| 產品型號 Model No | 在庫 Stock | 刃徑(d) F.D | 刃長(L1) Flute Length | 全長(L) O.A.L. | 柄徑(D) Shank Dia. | 價格 Price |
|---------------|----------|-----------|---------------------|--------------|------------------|----------|
|---------------|----------|-----------|---------------------|--------------|------------------|----------|

|                            |   |      |      |     |    |  |
|----------------------------|---|------|------|-----|----|--|
| <b>NEW</b> MUH-GMM4040     | ● | 4.0  | 10   | 50  | 4  |  |
| <b>NEW</b> MUH-GMM4060     | ● | 6.0  | 15   | 50  | 6  |  |
| <b>NEW</b> MUH-GMM4070     | ● | 7.0  | 17.5 | 60  | 8  |  |
| <b>NEW</b> MUH-GMM4080     | ● | 8.0  | 20   | 60  | 8  |  |
| <b>NEW</b> MUH-GMM4080L124 | ● | 8.0  | 24   | 60  | 8  |  |
| <b>NEW</b> MUH-GMM4100     | ● | 10.0 | 25   | 75  | 10 |  |
| <b>NEW</b> MUH-GMM4100L130 | ● | 10.0 | 30   | 75  | 10 |  |
| <b>NEW</b> MUH-GMM4100H    | ● | 10.0 | 25   | 100 | 10 |  |
| <b>NEW</b> MUH-GMM4120     | ● | 12.0 | 30   | 75  | 12 |  |
| <b>NEW</b> MUH-GMM4120L136 | ● | 12.0 | 36   | 75  | 12 |  |
| <b>NEW</b> MUH-GMM4160     | ● | 16.0 | 48   | 100 | 16 |  |
| <b>NEW</b> MUH-GMM4200     | ● | 20.0 | 50   | 100 | 20 |  |

 D  
外徑出水車刀架  
TOOL HOLDER  
WITH COOLANT

 E  
走心式車刀架  
AUTOMATIC LATHES

 F  
手工具  
HAND TOOLS

 G  
內徑車刀架  
BORING BAR

 H  
切斷刀架  
GROOVING

 I  
銑刀  
END MILL  
CUTTER

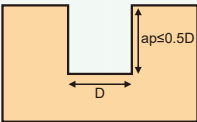
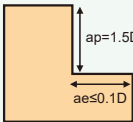
 J  
快速鑽頭  
RAPID DRILL

 K  
機床配件  
MACHINE  
ACCESSORIES



# MUH-GMM4000系列切削參數

The Cutting Data For MUH-GMM4000 Series

| 被加工材質<br>Material        | 鋼、不鏽鋼、鑄鐵 Steel、Stainless steel、Iron cast                                          |                  |                                                                                   |
|--------------------------|-----------------------------------------------------------------------------------|------------------|-----------------------------------------------------------------------------------|
| 直徑 Shank(mm)             | 轉速 n (min)                                                                        | 進給速度 Vf (mm/min) |                                                                                   |
|                          |                                                                                   | 開槽 Slotted       | 側邊 Side                                                                           |
| 4                        | 6000                                                                              | 1100             | 420                                                                               |
| 6                        | 4000                                                                              | 800              | 420                                                                               |
| 8                        | 200                                                                               | 950              | 420                                                                               |
| 10                       | 2400                                                                              | 750              | 420                                                                               |
| 12                       | 1900                                                                              | 500              | 420                                                                               |
| 16                       | 1500                                                                              | 480              | 420                                                                               |
| 18                       | 1400                                                                              | 450              | 420                                                                               |
| 20                       | 1200                                                                              | 400              | 420                                                                               |
| 切深量 Depth<br>(D : 刃徑F.D) | 開槽 Slotted                                                                        |                  | 側邊 Side                                                                           |
|                          |  |                  |  |

A  
刀片  
INSERT

B  
鎢鋼端銑刀  
CARBIDE END MILL

C  
外徑車刀架  
TOOL HOLDER

D  
外徑出水車刀架  
TOOL HOLDER WITH COOLANT

E  
走心式車刀架  
AUTOMATIC LATHES

F  
手工具  
HAND TOOLS

G  
內徑車刀架  
BORING BAR

H  
切斷刀架  
GROOVING

I  
銑刀  
END MILL CUTTER

J  
快速鑽頭  
RAPID DRILL

K  
機床配件  
MACHINE ACCESSORIES

**A**  
 刀片  
 INSERT

**B**

 鈾鋼端銑刀  
 CARBIDE END MILL

**C**

 外徑車刀架  
 TOOL HOLDER

**D**

 外徑出水車刀架  
 TOOL HOLDER  
 WITH COOLANT

**E**

 走心式車刀架  
 AUTOMATIC LATHES

**F**

 手工具  
 HAND TOOLS

**G**

 內徑車刀架  
 BORING BAR

**H**

 切斷刀架  
 GROOVING

**I**

 銑刀  
 END MILL  
 CUTTER

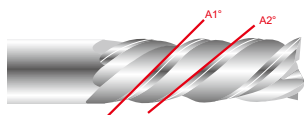
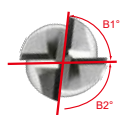
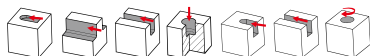
**J**

 快速鑽頭  
 RAPID DRILL

**K**

 機床配件  
 MACHINE  
 ACCESSORIES

# MUH-IMM 4000

 不等分割不等螺旋 4 刃立銑刀  
 4 Flutes Radius End Mill

 不等螺旋  
 $A1^\circ \neq A2^\circ$ 

 不等分割  
 $B1^\circ \neq B2^\circ$ 

 新品上市  
 New Arrival

M 500

MG

CO 10%

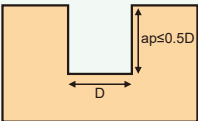
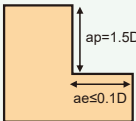
42 45

Altin

| 產品型號 Model No              | 在庫 Stock | 刃徑(d) F.D | 刃長(L1) Flute Length | 全長(L) O.A.L. | 柄徑(D) Shank Dia. | 價格 Price |
|----------------------------|----------|-----------|---------------------|--------------|------------------|----------|
| <b>NEW</b> MUH-IMM4060     | ●        | 6.0       | 15                  | 50           | 6                |          |
| <b>NEW</b> MUH-IMM4060L118 | ●        | 6.0       | 18                  | 50           | 6                |          |
| <b>NEW</b> MUH-IMM4080     | ●        | 8.0       | 20                  | 60           | 8                |          |
| <b>NEW</b> MUH-IMM4080L124 | ●        | 8.0       | 24                  | 60           | 8                |          |
| <b>NEW</b> MUH-IMM4100     | ●        | 10.0      | 25                  | 75           | 10               |          |
| <b>NEW</b> MUH-IMM4100L130 | ●        | 10.0      | 30                  | 75           | 10               |          |
| <b>NEW</b> MUH-IMM4120     | ●        | 12.0      | 30                  | 75           | 12               |          |
| <b>NEW</b> MUH-IMM4120L136 | ●        | 12.0      | 36                  | 75           | 12               |          |
| <b>NEW</b> MUH-IMM4160     | ●        | 16.0      | 48                  | 100          | 16               |          |
| <b>NEW</b> MUH-IMM4200     | ●        | 20.0      | 50                  | 100          | 20               |          |

# MUH-IMM4000 系列切削參數

The Cutting Data For MUH-IMM4000 Series

| 被加工材質<br>Material        | 鋼、不鏽鋼、鑄鐵 Steel、Stainless steel、Iron cast                                                                                                                                                                                               |                  |         |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|---------|
| 直徑 Shank(mm)             | 轉速 n (min)                                                                                                                                                                                                                             | 進給速度 Vf (mm/min) |         |
|                          |                                                                                                                                                                                                                                        | 開槽 Slotted       | 側邊 Side |
| 4                        | 6000                                                                                                                                                                                                                                   | 1100             | 420     |
| 6                        | 4000                                                                                                                                                                                                                                   | 800              | 420     |
| 8                        | 200                                                                                                                                                                                                                                    | 950              | 420     |
| 10                       | 2400                                                                                                                                                                                                                                   | 750              | 420     |
| 12                       | 1900                                                                                                                                                                                                                                   | 500              | 420     |
| 16                       | 1500                                                                                                                                                                                                                                   | 480              | 420     |
| 18                       | 1400                                                                                                                                                                                                                                   | 450              | 420     |
| 20                       | 1200                                                                                                                                                                                                                                   | 400              | 420     |
| 切深量 Depth<br>(D : 刃徑F.D) | <div> <div>開槽 Slotted</div>  </div> <div> <div>側邊 Side</div>  </div> |                  |         |

A  
刀片  
INSERT

B  
鎢鋼端銑刀  
CARBIDE END MILL

C  
外徑車刀架  
TOOL HOLDER

D  
外徑出水車刀架  
TOOL HOLDER WITH COOLANT

E  
走心式車刀架  
AUTOMATIC LATHES

F  
手工具  
HAND TOOLS

G  
內徑車刀架  
BORING BAR

H  
切斷刀架  
GROOVING

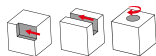
I  
銑刀  
END MILL CUTTER

J  
快速鑽頭  
RAPID DRILL

K  
機床配件  
MACHINE ACCESSORIES

**A**  
 刀片  
 INSERT

**GMM 6000**

 6 刃立銑刀  
 6 Flutes End Mill


| 產品型號 Model No | 在庫 Stock | 刃徑(d) F.D | 刃長(L1) Flute Length | 全長(L) O.A.L. | 柄徑(D) Shank Dia. | 價格 Price |
|---------------|----------|-----------|---------------------|--------------|------------------|----------|
| GMM6040       | ●        | 4.0       | 10                  | 50           | 4                |          |
| GMM6045       | ●        | 4.5       | 11.25               | 50           | 6                |          |
| GMM6050       | ●        | 5.0       | 12.5                | 50           | 6                |          |
| GMM6060       | ●        | 6.0       | 15                  | 50           | 6                |          |
| GMM6080       | ●        | 8.0       | 20                  | 60           | 8                |          |
| GMM6100       | ●        | 10.0      | 25                  | 75           | 10               |          |
| GMM6120       | ●        | 12.0      | 30                  | 75           | 12               |          |
| GMM6160       | ●        | 16.0      | 48                  | 100          | 16               |          |
| GMM6200       | ●        | 20.0      | 50                  | 100          | 20               |          |
| GMM6250       | ●        | 25.0      | 62.5                | 100          | 25               |          |

**C**  
 外徑車刀架  
 TOOL HOLDER

**D**  
 外徑出水車刀架  
 TOOL HOLDER WITH COOLANT

**E**  
 走心式車刀架  
 AUTOMATIC LATHES

**F**  
 手工具  
 HAND TOOLS

**G**  
 內徑車刀架  
 BORING BAR

**H**  
 切斷刀架  
 GROOVING

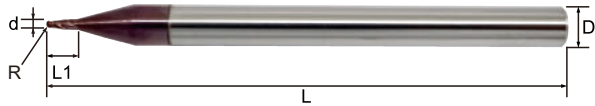
**I**  
 銑刀  
 END MILL CUTTER

**J**  
 快速鑽頭  
 RAPID DRILL

**K**  
 機床配件  
 MACHINE ACCESSORIES

# S-EMB 2000

微小徑 2 刃球頭立銑刀  
Micro Diameter  
2 Flutes Ball Nose End Mill



A  
刀片  
INSERT

B  
鎢鋼端銑刀  
CARBIDE END MILL

C  
外徑車刀架  
TOOL HOLDER

D  
外徑出水車刀架  
TOOL HOLDER  
WITH COOLANT

E  
走心式車刀架  
AUTOMATIC LATHES

F  
手工具  
HAND TOOLS

G  
內徑車刀架  
BORING BAR

H  
切斷刀架  
GROOVING

I  
銑刀  
END MILL  
CUTTER

J  
快速鑽頭  
RAPID DRILL

K  
機床配件  
MACHINE  
ACCESSORIES

| 產品型號 Model No | 在庫 Stock | 半徑(R)=1/2d Radius | 刃徑(d) F.D | 刃長(L1) Flute Lenght | 全長(L) O.A.L. | 柄徑(D) Shank Dia. | 價格 Price |
|---------------|----------|-------------------|-----------|---------------------|--------------|------------------|----------|
| S-EMB2003     | ●        | 0.15              | 0.3       | 0.6                 | 50           | 4                |          |
| S-EMB2004     | ●        | 0.20              | 0.4       | 0.8                 | 50           | 4                |          |
| S-EMB2005     | ●        | 0.25              | 0.5       | 1.0                 | 50           | 4                |          |
| S-EMB2006     | ●        | 0.30              | 0.6       | 1.2                 | 50           | 4                |          |
| S-EMB2007     | ●        | 0.35              | 0.7       | 1.4                 | 50           | 4                |          |
| S-EMB2008     | ●        | 0.40              | 0.8       | 1.6                 | 50           | 4                |          |
| S-EMB2009     | ●        | 0.45              | 0.9       | 1.8                 | 50           | 4                |          |

## S-EMB2000 系列切削參數

The Cutting Data For S-EMB2000 Series

| 被加工材質 Material            | 鋼、不鏽鋼、鑄鐵 Steel、Stainless steel、Iron cast |                  |
|---------------------------|------------------------------------------|------------------|
| 直徑 Shank(mm)              | 轉速 n (min)                               | 進給速度 Vf (mm/min) |
| 4                         | 6400                                     | 235              |
| 6                         | 4300                                     | 245              |
| 8                         | 3200                                     | 275              |
| 10                        | 2600                                     | 275              |
| 12                        | 2200                                     | 255              |
| 16                        | 1600                                     | 230              |
| 18                        | 1400                                     | 225              |
| 20                        | 1300                                     | 205              |
| 切深量 Depth<br>(R：半徑Radius) |                                          |                  |

**A**  
 刀片  
 INSERT

**B**  
 鎢鋼端銑刀  
 CARBIDE END MILL

**C**  
 外徑車刀架  
 TOOL HOLDER

**D**  
 外徑出水車刀架  
 TOOL HOLDER  
 WITH COOLANT

**E**  
 走心式車刀架  
 AUTOMATIC LATHES

**F**  
 手工具  
 HAND TOOLS

**G**  
 內徑車刀架  
 BORING BAR

**H**  
 切斷刀架  
 GROOVING

**I**  
 銑刀  
 END MILL  
 CUTTER

**J**  
 快速鑽頭  
 RAPID DRILL

**K**  
 機床配件  
 MACHINE  
 ACCESSORIES

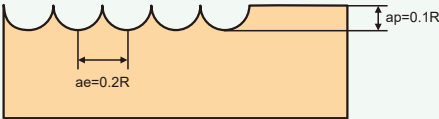
**EMB 2000-00**

 長頸短刃 2 刃球頭立銑刀  
 Long Neck Short Flute  
 2 Flutes Ball Nose End Mill


| 產品型號 Model No | 在庫 Stock | 半徑(R)=1/2d Radius | 刃徑(d) F.D | 刃長(L1) Flute Length | 有效長(L2) E.L. | 全長(L) O.A.L. | 柄徑(D) Shank Dia. | 價格 Price |
|---------------|----------|-------------------|-----------|---------------------|--------------|--------------|------------------|----------|
| EMB2004L202   | ●        | 0.20              | 0.4       | 2                   | 0.6          | 50           | 4                |          |
| EMB2004L204   | ●        | 0.20              | 0.4       | 4                   | 0.6          | 50           | 4                |          |
| EMB2005L202   | ●        | 0.25              | 0.5       | 2                   | 0.8          | 50           | 4                |          |
| EMB2005L204   | ●        | 0.25              | 0.5       | 4                   | 0.8          | 50           | 4                |          |
| EMB2005L206   | ●        | 0.25              | 0.5       | 6                   | 0.8          | 50           | 4                |          |
| EMB2006L202   | ●        | 0.30              | 0.6       | 2                   | 1.0          | 50           | 4                |          |
| EMB2006L204   | ●        | 0.30              | 0.6       | 4                   | 1.0          | 50           | 4                |          |
| EMB2006L206   | ●        | 0.30              | 0.6       | 6                   | 1.0          | 50           | 4                |          |
| EMB2006L208   | ●        | 0.30              | 0.6       | 8                   | 1.0          | 50           | 4                |          |
| EMB2008L203   | ●        | 0.40              | 0.8       | 3                   | 1.2          | 50           | 4                |          |
| EMB2008L204   | ●        | 0.40              | 0.8       | 4                   | 1.2          | 50           | 4                |          |
| EMB2008L206   | ●        | 0.40              | 0.8       | 6                   | 1.2          | 50           | 4                |          |
| EMB2008L208   | ●        | 0.40              | 0.8       | 8                   | 1.2          | 50           | 4                |          |
| EMB2008L210   | ●        | 0.40              | 0.8       | 10                  | 1.2          | 50           | 4                |          |
| EMB2010L204   | ●        | 0.50              | 1.0       | 4                   | 1.2          | 50           | 4                |          |
| EMB2010L206   | ●        | 0.50              | 1.0       | 6                   | 1.2          | 50           | 4                |          |
| EMB2010L208   | ●        | 0.50              | 1.0       | 8                   | 1.2          | 50           | 4                |          |
| EMB2010L210   | ●        | 0.50              | 1.0       | 10                  | 1.2          | 50           | 4                |          |
| EMB2010L212   | ●        | 0.50              | 1.0       | 12                  | 1.2          | 50           | 4                |          |
| EMB2015L204   | ●        | 0.75              | 1.5       | 4                   | 1.7          | 50           | 4                |          |
| EMB2015L206   | ●        | 0.75              | 1.5       | 6                   | 1.7          | 50           | 4                |          |
| EMB2015L208   | ●        | 0.75              | 1.5       | 8                   | 1.7          | 50           | 4                |          |
| EMB2015L210   | ●        | 0.75              | 1.5       | 10                  | 1.7          | 50           | 4                |          |
| EMB2015L212   | ●        | 0.75              | 1.5       | 12                  | 1.7          | 50           | 4                |          |
| EMB2020L206   | ●        | 1.00              | 2.0       | 6                   | 2.2          | 50           | 4                |          |
| EMB2020L208   | ●        | 1.00              | 2.0       | 8                   | 2.2          | 50           | 4                |          |
| EMB2020L210   | ●        | 1.00              | 2.0       | 10                  | 2.2          | 50           | 4                |          |
| EMB2020L212   | ●        | 1.00              | 2.0       | 12                  | 2.2          | 50           | 4                |          |
| EMB2020L214   | ●        | 1.00              | 2.0       | 14                  | 2.2          | 50           | 4                |          |
| EMB2020L216   | ●        | 1.00              | 2.0       | 16                  | 2.2          | 75           | 4                |          |
| EMB2030L208   | ●        | 1.50              | 3.0       | 8                   | 3.2          | 50           | 4                |          |
| EMB2030L210   | ●        | 1.50              | 3.0       | 10                  | 3.2          | 50           | 4                |          |
| EMB2030L212   | ●        | 1.50              | 3.0       | 12                  | 3.2          | 50           | 4                |          |
| EMB2030L214   | ●        | 1.50              | 3.0       | 14                  | 3.2          | 50           | 4                |          |
| EMB2030L216   | ●        | 1.50              | 3.0       | 16                  | 3.2          | 75           | 4                |          |
| EMB2030L220   | ●        | 1.50              | 3.0       | 20                  | 3.2          | 75           | 4                |          |
| EMB2040L212   | ●        | 2.00              | 4.0       | 12                  | 4.2          | 50           | 4                |          |
| EMB2040L214   | ●        | 2.00              | 4.0       | 14                  | 4.2          | 50           | 4                |          |
| EMB2040L216   | ●        | 2.00              | 4.0       | 16                  | 4.2          | 75           | 4                |          |
| EMB2040L220   | ●        | 2.00              | 4.0       | 20                  | 4.2          | 75           | 4                |          |
| EMB2040L225   | ●        | 2.00              | 4.0       | 25                  | 4.2          | 75           | 4                |          |

# EMB2000-00 系列切削參數

The Cutting Data For EMB2000-00 Series

| 被加工材質<br>Material           | 鋼、不鏽鋼、鑄鐵 Steel、Stainless steel、Iron cast                                          |                  |
|-----------------------------|-----------------------------------------------------------------------------------|------------------|
| 直徑 Shank(mm)                | 轉速 n (min)                                                                        | 進給速度 Vf (mm/min) |
| 4                           | 6400                                                                              | 235              |
| 6                           | 4300                                                                              | 245              |
| 8                           | 3200                                                                              | 275              |
| 10                          | 2600                                                                              | 275              |
| 12                          | 2200                                                                              | 255              |
| 16                          | 1600                                                                              | 230              |
| 18                          | 1400                                                                              | 225              |
| 20                          | 1300                                                                              | 205              |
| 切深量 Depth<br>(R : 半徑Radius) |  |                  |

A  
刀片  
INSERT

B  
鎢鋼端銑刀  
CARBIDE END MILL

C  
外徑車刀架  
TOOL HOLDER

D  
外徑出水車刀架  
TOOL HOLDER  
WITH COOLANT

E  
走心式車刀架  
AUTOMATIC LATHES

F  
手工具  
HAND TOOLS

G  
內徑車刀架  
BORING BAR

H  
切斷刀架  
GROOVING

I  
銑刀  
END MILL  
CUTTER

J  
快速鑽頭  
RAPID DRILL

K  
機床配件  
MACHINE  
ACCESSORIES

**A**  
 刀片  
 INSERT

**EMB 2000**

2 刃球頭立銼刀

2 Flutes Ball Nose End Mill


 新規格上市  
 New Specification Arrival

M500

MG

 CO  
 10%

 HRC  
 <55

35

Altin

**B**

 鎢鋼端銼刀  
 CARBIDE END MILL

**C**

 外徑車刀架  
 TOOL HOLDER

**D**

 外徑出水車刀架  
 TOOL HOLDER  
 WITH COOLANT

**E**

 走心式車刀架  
 AUTOMATIC LATHES

**F**

 手工工具  
 HAND TOOLS

**G**

 內徑車刀架  
 BORING BAR

**H**

 切斷刀架  
 GROOVING

**I**

 銼刀  
 END MILL  
 CUTTER

**J**

 快速鑽頭  
 RAPID DRILL

**K**

 機床配件  
 MACHINE  
 ACCESSORIES

| 產品型號 Model No        | 在庫 Stock | 半徑(R)=1/2d Radius | 刃徑(d) F.D | 刃長(L1) Flute Length | 全長(L) O.A.L. | 柄徑(D) Shank Dia. | 價格 Price |
|----------------------|----------|-------------------|-----------|---------------------|--------------|------------------|----------|
| EMB2010              | ●        | 0.50              | 1.0       | 2.0                 | 50           | 4                |          |
| EMB2015              | ●        | 0.75              | 1.5       | 3.0                 | 50           | 4                |          |
| EMB2020              | ●        | 1.00              | 2.0       | 4.0                 | 50           | 4                |          |
| EMB2025              | ●        | 1.25              | 2.5       | 5.0                 | 50           | 4                |          |
| EMB2030              | ●        | 1.50              | 3.0       | 6.0                 | 50           | 4                |          |
| EMB2035              | ●        | 1.75              | 3.5       | 7.0                 | 50           | 4                |          |
| EMB2035E1            | ●        | 1.75              | 3.5       | 7.0                 | 75           | 4                |          |
| EMB2040              | ●        | 2.00              | 4.0       | 8.0                 | 50           | 4                |          |
| EMB2040E1            | ●        | 2.00              | 4.0       | 8.0                 | 75           | 4                |          |
| EMB2040H             | ●        | 2.00              | 4.0       | 8.0                 | 100          | 4                |          |
| <b>NEW</b> EMB2015D6 | ●        | 0.75              | 1.5       | 3.0                 | 50           | 6                |          |
| EMB2020D6            | ●        | 1.00              | 2.0       | 4.0                 | 50           | 6                |          |
| EMB2025D6            | ●        | 1.25              | 1.5       | 5.0                 | 50           | 6                |          |
| EMB2030D6            | ●        | 1.50              | 3.0       | 6.0                 | 50           | 6                |          |
| EMB2035D6            | ●        | 1.75              | 3.5       | 7.0                 | 50           | 6                |          |
| EMB2035E1D6          | ●        | 1.75              | 3.5       | 7.0                 | 75           | 6                |          |
| EMB2040D6            | ●        | 2.00              | 4.0       | 8.0                 | 50           | 6                |          |
| EMB2040E1D6          | ●        | 2.00              | 4.0       | 8.0                 | 75           | 6                |          |
| EMB2040HD6           | ●        | 2.00              | 4.0       | 8.0                 | 100          | 6                |          |
| EMB2049              | ●        | 2.45              | 4.9       | 9.8                 | 50           | 6                |          |
| EMB2050              | ●        | 2.50              | 5.0       | 10.0                | 50           | 6                |          |
| EMB2050E1            | ●        | 2.50              | 5.0       | 10.0                | 75           | 6                |          |
| EMB2050H             | ●        | 2.50              | 5.0       | 10.0                | 100          | 6                |          |
| EMB2060              | ●        | 3.00              | 6.0       | 12.0                | 50           | 6                |          |
| EMB2060E1            | ●        | 3.00              | 6.0       | 12.0                | 75           | 6                |          |
| EMB2060H             | ●        | 3.00              | 6.0       | 12.0                | 100          | 6                |          |
| EMB2060M             | ●        | 3.00              | 6.0       | 12.0                | 150          | 6                |          |
| <b>NEW</b> EMB2065   | ●        | 3.25              | 6.5       | 13                  | 60           | 8                |          |
| <b>NEW</b> EMB2069   | ●        | 3.45              | 6.9       | 13.8                | 60           | 8                |          |
| EMB2080              | ●        | 4.00              | 8.0       | 16.0                | 60           | 8                |          |
| EMB2080E1            | ●        | 4.00              | 8.0       | 16.0                | 75           | 8                |          |
| EMB2080H             | ●        | 4.00              | 8.0       | 16.0                | 100          | 8                |          |
| EMB2080M             | ●        | 4.00              | 8.0       | 16.0                | 150          | 8                |          |
| EMB2080R             | ●        | 4.00              | 8.0       | 16.0                | 200          | 8                |          |

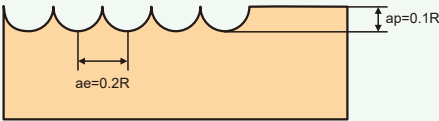
※ 請接下頁。 ※ Continued on next page.



| 產品型號 Model No | 在庫 Stock | 半徑(R)=1/2d Radius | 刃徑(d) F.D | 刃長(L1) Flute Lenght | 全長(L) O.A.L. | 柄徑(D) Shank Dia. | 價格 Price |
|---------------|----------|-------------------|-----------|---------------------|--------------|------------------|----------|
| EMB2100       | ●        | 5.00              | 10.0      | 20.0                | 75           | 10               |          |
| EMB2100H      | ●        | 5.00              | 10.0      | 20.0                | 100          | 10               |          |
| EMB2100M      | ●        | 5.00              | 10.0      | 20.0                | 150          | 10               |          |
| EMB2100R      | ●        | 5.00              | 10.0      | 20.0                | 200          | 10               |          |
| EMB2120       | ●        | 6.00              | 12.0      | 24.0                | 75           | 12               |          |
| EMB2120H      | ●        | 6.00              | 12.0      | 24.0                | 100          | 12               |          |
| EMB2120M      | ●        | 6.00              | 12.0      | 24.0                | 150          | 12               |          |
| EMB2120R      | ●        | 6.00              | 12.0      | 24.0                | 200          | 12               |          |
| EMB2160       | ●        | 8.00              | 16.0      | 32.0                | 100          | 16               |          |
| EMB2160M      | ●        | 8.00              | 16.0      | 32.0                | 150          | 16               |          |
| EMB2160R      | ●        | 8.00              | 16.0      | 32.0                | 200          | 16               |          |
| EMB2200       | ●        | 10.00             | 20.0      | 40.0                | 100          | 20               |          |
| EMB2200M      | ●        | 10.00             | 20.0      | 40.0                | 150          | 20               |          |
| EMB2200R      | ●        | 10.00             | 20.0      | 40.0                | 200          | 20               |          |

## EMB2000系列切削參數

The Cutting Data For EMB2000 Series

| 被加工材質 Material             | 鋼、不鏽鋼、鑄鐵 Steel、Stainless steel、Iron cast                                            |                  |
|----------------------------|-------------------------------------------------------------------------------------|------------------|
| 直徑 Shank(mm)               | 轉速 n (min)                                                                          | 進給速度 Vf (mm/min) |
| 4                          | 6400                                                                                | 235              |
| 6                          | 4300                                                                                | 245              |
| 8                          | 3200                                                                                | 275              |
| 10                         | 2600                                                                                | 275              |
| 12                         | 2200                                                                                | 255              |
| 16                         | 1600                                                                                | 230              |
| 18                         | 1400                                                                                | 225              |
| 20                         | 1300                                                                                | 205              |
| 切深量 Depth<br>(R: 半徑Radius) |  |                  |

A  
刀片  
INSERT

B  
鎢鋼端銑刀  
CARBIDE END MILL

C  
外徑車刀架  
TOOL HOLDER

D  
外徑出水車刀架  
TOOL HOLDER WITH COOLANT

E  
走心式車刀架  
AUTOMATIC LATHES

F  
手工具  
HAND TOOLS

G  
內徑車刀架  
BORING BAR

H  
切斷刀架  
GROOVING

I  
銑刀  
END MILL CUTTER

J  
快速鑽頭  
RAPID DRILL

K  
機床配件  
MACHINE ACCESSORIES

A  
刀片  
INSERT

B

 鎢鋼端銑刀  
CARBIDE END MILL

C

 外徑車刀架  
TOOL HOLDER

D

 外徑出水車刀架  
TOOL HOLDER WITH COOLANT

E

 走心式車刀架  
AUTOMATIC LATHES

F

 手工具  
HAND TOOLS

G

 內徑車刀架  
BORING BAR

H

 切斷刀架  
GROOVING

I

 銑刀  
END MILL  
CUTTER

J

 快速鑽頭  
RAPID DRILL

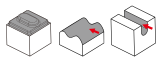
K

 機床配件  
MACHINE  
ACCESSORIES

## EMB 4000

### 4 刃球頭立銑刀

4 Flutes Ball Nose End Mill


 新規格上市  
New Specification Arrival

M500

MG

 CO  
10%

 HRC  
≤55

35

Altin

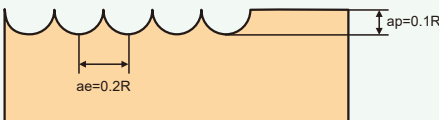
| 產品型號 Model No | 在庫 Stock | 半徑(R)=1/2d Radius | 刃徑(d) F.D | 刃長(L1) Flute Length | 全長(L) O.A.L. | 柄徑(D) Shank Dia. | 價格 Price |
|---------------|----------|-------------------|-----------|---------------------|--------------|------------------|----------|
| EMB4010       | ●        | 0.50              | 1.0       | 2.0                 | 50           | 4                |          |
| EMB4015       | ●        | 0.75              | 1.5       | 3.0                 | 50           | 4                |          |
| EMB4020       | ●        | 1.00              | 2.0       | 4.0                 | 50           | 4                |          |
| EMB4030       | ●        | 1.50              | 3.0       | 6.0                 | 50           | 4                |          |
| EMB4035       | ●        | 1.75              | 2.5       | 7.0                 | 50           | 4                |          |
| EMB4040       | ●        | 2.00              | 4.0       | 8.0                 | 50           | 4                |          |
| EMB4050       | ●        | 2.50              | 5.0       | 10.0                | 50           | 6                |          |
| EMB4060       | ●        | 3.00              | 6.0       | 12.0                | 50           | 6                |          |
| NEW EMB4060E1 | ●        | 3.00              | 6.0       | 12.0                | 75           | 6                |          |
| NEW EMB4060H  | ●        | 3.00              | 6.0       | 12.0                | 100          | 6                |          |
| EMB4080       | ●        | 4.00              | 8.0       | 16.0                | 60           | 8                |          |
| NEW EMB4080E1 | ●        | 4.00              | 8.0       | 16.0                | 75           | 8                |          |
| NEW EMB4080H  | ●        | 4.00              | 8.0       | 16.0                | 100          | 8                |          |
| EMB4100       | ●        | 5.00              | 10.0      | 20.0                | 75           | 10               |          |
| NEW EMB4100H  | ●        | 5.00              | 10.0      | 20.0                | 100          | 10               |          |
| NEW EMB4100M  | ●        | 5.00              | 10.0      | 20.0                | 150          | 10               |          |
| EMB4120       | ●        | 6.00              | 12.0      | 24.0                | 75           | 12               |          |
| NEW EMB4120H  | ●        | 6.00              | 12.0      | 24.0                | 100          | 12               |          |
| NEW EMB4120M  | ●        | 6.00              | 12.0      | 24.0                | 150          | 12               |          |
| EMB4160       | ●        | 8.00              | 16.0      | 32.0                | 100          | 16               |          |
| NEW EMB4160M  | ●        | 8.00              | 16.0      | 32.0                | 150          | 16               |          |
| EMB4200       | ●        | 10.0              | 20.0      | 40.0                | 100          | 20               |          |

## EMB4000系列切削參數

The Cutting Data For EMB4000 Series

| 被加工材質<br>Material | 鋼、不鏽鋼、鑄鐵 Steel、Stainless steel、Iron cast |                  |
|-------------------|------------------------------------------|------------------|
| 直徑 Shank(mm)      | 轉速 n (min)                               | 進給速度 Vf (mm/min) |
| 4                 | 6400                                     | 470              |
| 6                 | 4300                                     | 490              |
| 8                 | 3200                                     | 550              |
| 10                | 2600                                     | 550              |
| 12                | 2200                                     | 510              |
| 16                | 1600                                     | 460              |
| 18                | 1400                                     | 450              |
| 20                | 1300                                     | 410              |

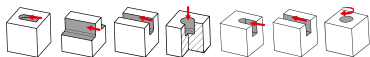
  

|                            |                                                                                     |
|----------------------------|-------------------------------------------------------------------------------------|
| 切深量 Depth<br>(R: 半徑Radius) |  |
|----------------------------|-------------------------------------------------------------------------------------|

# DMR 2000-00-00L2

## 圓鼻 2 刃立銑刀

2 Flutes Corner Radius End Mill



A  
刀片  
INSERT

B  
鎢鋼端銑刀  
CARBIDE END MILL

C  
外徑車刀架  
TOOL HOLDER

D  
外徑出水車刀架  
TOOL HOLDER  
WITH COOLANT

E  
走心式車刀架  
AUTOMATIC LATHES

F  
手工具  
HAND TOOLS

G  
內徑車刀架  
BORING BAR

H  
切斷刀架  
GROOVING

I  
銑刀  
END MILL  
CUTTER

J  
快速鑽頭  
RAPID DRILL

K  
機床配件  
MACHINE  
ACCESSORIES

| 產品型號 Model No  | 在庫 Stock | 刃徑(d) F.D. | 半徑(R) Radius | 有效長(L2) E.L. | 刃長(L1) Flute Length | 全長(L) O.A.L. | 柄徑(D) Shank Dia. | 價格 Price |
|----------------|----------|------------|--------------|--------------|---------------------|--------------|------------------|----------|
| DMR2030R02L203 | ●        | 3          | 0.2          | 3            | 10                  | 50           | 4                |          |
| DMR2030R05L203 | ●        | 3          | 0.5          | 3            | 10                  | 50           | 4                |          |
| DMR2040R02L204 | ●        | 4          | 0.2          | 4            | 12                  | 50           | 4                |          |
| DMR2040R05L204 | ●        | 4          | 0.5          | 4            | 12                  | 50           | 4                |          |
| DMR2060R02L206 | ●        | 6          | 0.2          | 6            | 15                  | 50           | 6                |          |
| DMR2060R05L206 | ●        | 6          | 0.5          | 6            | 15                  | 50           | 6                |          |
| DMR2060R10L206 | ●        | 6          | 1.0          | 6            | 15                  | 50           | 6                |          |
| DMR2080R05L210 | ●        | 8          | 0.5          | 10           | 20                  | 60           | 8                |          |
| DMR2080R10L210 | ●        | 8          | 1.0          | 10           | 20                  | 60           | 8                |          |
| DMR2100R05L212 | ●        | 10         | 0.5          | 12           | 25                  | 75           | 10               |          |
| DMR2100R10L212 | ●        | 10         | 1.0          | 12           | 25                  | 75           | 10               |          |
| DMR2120R05L214 | ●        | 12         | 0.5          | 14           | 30                  | 75           | 12               |          |
| DMR2120R10L214 | ●        | 12         | 1.0          | 14           | 30                  | 75           | 12               |          |

## DMR2000-00-00L2系列切削參數

The Cutting Data For DMR2000-00-00L2 Series

| 被加工材質<br>Material | 鋼、不鏽鋼、鑄鐵 Steel / Stainless steel / Iron cast |                  |
|-------------------|----------------------------------------------|------------------|
| 直徑 Shank(mm)      | 轉速 n (min)                                   | 進給速度 Vf (mm/min) |
| 4                 | 6400                                         | 260              |
| 6                 | 4300                                         | 280              |
| 8                 | 3200                                         | 285              |
| 10                | 2600                                         | 270              |
| 12                | 2200                                         | 270              |
| 16                | 1600                                         | 255              |
| 18                | 1400                                         | 205              |
| 20                | 1300                                         | 185              |

2 Flutes Corner Radius End Mill 圓鼻 2 刃立銑刀



**A**  
 刀片  
 INSERT

**DMR 2000**
**圖鼻 2 刃立銑刀**

2 Flutes Corner Radius End Mill


**新規格上市**  
 New Specification Arrival

**M 500**
**MG**
**CO 10%**
**HRC <55**
**30**
**Alfin**
**B**  
 鎢鋼端銑刀  
 CARBIDE END MILL

**C**  
 外徑車刀架  
 TOOL HOLDER

**D**  
 外徑出水車刀架  
 TOOL HOLDER WITH COOLANT

**E**  
 走心式車刀架  
 AUTOMATIC LATHES

**F**  
 手工具  
 HAND TOOLS

**G**  
 內徑車刀架  
 BORING BAR

**H**  
 切斷刀架  
 GROOVING

**I**  
 銑刀  
 END MILL CUTTER

**J**  
 快速鑽頭  
 RAPID DRILL

**K**  
 機床配件  
 MACHINE ACCESSORIES

| 產品型號 Model No         | 在庫 Stock | 刃徑(d) F.D | 半徑(R) Radius | 刃長(L1) Flute Length | 全長(L) O.A.L. | 柄徑(D) Shank Dia. | 價格 Price |
|-----------------------|----------|-----------|--------------|---------------------|--------------|------------------|----------|
| DMR2010R02            | ●        | 1.0       | 0.2          | 2.5                 | 50           | 4                |          |
| DMR2015R02            | ●        | 1.5       | 0.2          | 3.75                | 50           | 4                |          |
| DMR2020R02            | ●        | 2.0       | 0.2          | 5                   | 50           | 4                |          |
| DMR2020R05            | ●        | 2.0       | 0.5          | 5                   | 50           | 4                |          |
| DMR2025R02            | ●        | 2.5       | 0.2          | 6.25                | 50           | 4                |          |
| DMR2030R02            | ●        | 3.0       | 0.2          | 7.5                 | 50           | 4                |          |
| DMR2030R02E1          | ●        | 3.0       | 0.2          | 7.5                 | 75           | 4                |          |
| DMR2030R05            | ●        | 3.0       | 0.5          | 7.5                 | 50           | 4                |          |
| DMR2030R05E1          | ●        | 3.0       | 0.5          | 7.5                 | 75           | 4                |          |
| <b>NEW</b> DMR2030R10 | ●        | 3.0       | 1.0          | 7.5                 | 75           | 4                |          |
| DMR2030R10E1          | ●        | 3.0       | 1.0          | 7.5                 | 75           | 4                |          |
| DMR2040R02            | ●        | 4.0       | 0.2          | 10                  | 50           | 4                |          |
| DMR2040R02E1          | ●        | 4.0       | 0.2          | 10                  | 75           | 4                |          |
| DMR2040R02H           | ●        | 4.0       | 0.2          | 10                  | 100          | 4                |          |
| DMR2040R05            | ●        | 4.0       | 0.5          | 10                  | 50           | 4                |          |
| DMR2040R05E1          | ●        | 4.0       | 0.5          | 10                  | 75           | 4                |          |
| DMR2040R05H           | ●        | 4.0       | 0.5          | 10                  | 100          | 4                |          |
| DMR2040R10            | ●        | 4.0       | 1.0          | 10                  | 50           | 4                |          |
| DMR2040R10E1          | ●        | 4.0       | 1.0          | 10                  | 75           | 4                |          |
| DMR2040R10H           | ●        | 4.0       | 1.0          | 10                  | 100          | 4                |          |
| DMR2060R02            | ●        | 6.0       | 0.2          | 15                  | 50           | 6                |          |
| DMR2060R02E1          | ●        | 6.0       | 0.2          | 15                  | 75           | 6                |          |
| DMR2060R02H           | ●        | 6.0       | 0.2          | 15                  | 100          | 6                |          |
| DMR2060R05            | ●        | 6.0       | 0.5          | 15                  | 50           | 6                |          |
| DMR2060R05E1          | ●        | 6.0       | 0.5          | 15                  | 75           | 6                |          |
| DMR2060R05H           | ●        | 6.0       | 0.5          | 15                  | 100          | 6                |          |
| DMR2060R10            | ●        | 6.0       | 1.0          | 15                  | 50           | 6                |          |
| DMR2060R10E1          | ●        | 6.0       | 1.0          | 15                  | 75           | 6                |          |
| DMR2060R10H           | ●        | 6.0       | 1.0          | 15                  | 100          | 6                |          |
| DMR2080R05            | ●        | 8.0       | 0.5          | 20                  | 60           | 8                |          |
| DMR2080R05E1          | ●        | 8.0       | 0.5          | 20                  | 75           | 8                |          |
| DMR2080R05H           | ●        | 8.0       | 0.5          | 20                  | 100          | 8                |          |
| DMR2080R10            | ●        | 8.0       | 1.0          | 20                  | 60           | 8                |          |
| DMR2080R10E1          | ●        | 8.0       | 1.0          | 20                  | 75           | 8                |          |
| DMR2080R10H           | ●        | 8.0       | 1.0          | 20                  | 100          | 8                |          |

※ 請接下頁。 ※ Continued on next page.

| 產品型號 Model No | 在庫 Stock | 刃徑(d) F.D | 半徑(R) Radius | 刃長(L1) Flute Lenght | 全長(L) O.A.L. | 柄徑(D) Shank Dia. | 價格 Price |
|---------------|----------|-----------|--------------|---------------------|--------------|------------------|----------|
| DMR2100R05    | ●        | 10.0      | 0.5          | 25                  | 75           | 10               |          |
| DMR2100R05H   | ●        | 10.0      | 0.5          | 25                  | 100          | 10               |          |
| DMR2100R10    | ●        | 10.0      | 1.0          | 25                  | 75           | 10               |          |
| DMR2100R10H   | ●        | 10.0      | 1.0          | 25                  | 100          | 10               |          |
| DMR2120R05    | ●        | 12.0      | 0.5          | 30                  | 75           | 12               |          |
| DMR2120R05H   | ●        | 12.0      | 0.5          | 30                  | 100          | 12               |          |
| DMR2120R10    | ●        | 12.0      | 1.0          | 30                  | 75           | 12               |          |
| DMR2120R10H   | ●        | 12.0      | 1.0          | 30                  | 100          | 12               |          |

## DMR2000系列切削參數

The Cutting Data For DMR2000 Series

| 被加工材質 Material | 鋼、不鏽鋼、鑄鐵 Seel、Stainless steel、Iron cast |                  |
|----------------|-----------------------------------------|------------------|
| 直徑 Shank(mm)   | 轉速 n (min)                              | 進給速度 Vf (mm/min) |
| 4              | 6400                                    | 260              |
| 6              | 4300                                    | 280              |
| 8              | 3200                                    | 285              |
| 10             | 2600                                    | 270              |
| 12             | 2200                                    | 270              |
| 16             | 1600                                    | 255              |
| 18             | 1400                                    | 205              |
| 20             | 1300                                    | 185              |

A  
刀片  
INSERT

B  
鎢鋼端銑刀  
CARBIDE END MILL

C  
外徑車刀架  
TOOL HOLDER

D  
外徑出水車刀架  
TOOL HOLDER WITH COOLANT

E  
走心式車刀架  
AUTOMATIC LATHES

F  
手工具  
HAND TOOLS

G  
內徑車刀架  
BORING BAR

H  
切斷刀架  
GROOVING

I  
銑刀  
END MILL CUTTER

J  
快速鑽頭  
RAPID DRILL

K  
機床配件  
MACHINE ACCESSORIES

**A**  
 刀片  
 INSERT

**B**

 鈨鋼端銑刀  
 CARBIDE END MILL

**C**

 外徑車刀架  
 TOOL HOLDER

**D**

 外徑出水車刀架  
 TOOL HOLDER  
 WITH COOLANT

**E**

 走心式車刀架  
 AUTOMATIC LATHES

**F**

 手工具  
 HAND TOOLS

**G**

 內徑車刀架  
 BORING BAR

**H**

 切斷刀架  
 GROOVING

**I**

 銑刀  
 END MILL  
 CUTTER

**J**

 快速鑽頭  
 RAPID DRILL

**K**

 機床配件  
 MACHINE  
 ACCESSORIES

## DMR 4000

### 圖鼻 4 刃立銑刀

4 Flutes Corner Radius End Mill


 新規格上市  
 New Specification Arrival

M500

MG

 CO  
 10%

 HRC  
 <55

30

Altin

| 產品型號 Model No             | 在庫 Stock | 刃徑(d) F.D | 半徑(R) Radius | 刃長(L1) Flute Length | 全長(L) O.A.L. | 柄徑(D) Shank Dia. | 價格 Price |
|---------------------------|----------|-----------|--------------|---------------------|--------------|------------------|----------|
| DMR4010R02                | ●        | 1.0       | 0.2          | 2.5                 | 50           | 4                |          |
| DMR4010R02L103            | ●        | 1.0       | 0.2          | 3                   | 50           | 4                |          |
| <b>NEW</b> DMR4015R02     | ●        | 1.5       | 0.2          | 3.75                | 50           | 4                |          |
| DMR4015R02L104            | ●        | 1.5       | 0.2          | 4                   | 50           | 4                |          |
| <b>NEW</b> DMR4020R02     | ●        | 2.0       | 0.2          | 5                   | 50           | 4                |          |
| DMR4020R02L106            | ●        | 2         | 0.2          | 6                   | 50           | 4                |          |
| DMR4020R05                | ●        | 2.0       | 0.5          | 5                   | 50           | 4                |          |
| DMR4020R05L106            | ●        | 2.0       | 0.5          | 6                   | 50           | 4                |          |
| DMR4025R02                | ●        | 2.5       | 0.2          | 6.25                | 50           | 4                |          |
| <b>NEW</b> DMR4030R02     | ●        | 3.0       | 0.2          | 7.5                 | 50           | 4                |          |
| <b>NEW</b> DMR4030R02L106 | ●        | 3.0       | 0.2          | 6                   | 50           | 4                |          |
| DMR4030R02L108            | ●        | 3.0       | 0.2          | 8                   | 50           | 4                |          |
| DMR4030R02E1              | ●        | 3.0       | 0.2          | 7.5                 | 75           | 4                |          |
| DMR4030R05                | ●        | 3.0       | 0.5          | 7.5                 | 50           | 4                |          |
| DMR4030R05E1              | ●        | 3.0       | 0.5          | 7.5                 | 75           | 4                |          |
| <b>NEW</b> DMR4030R05L108 | ●        | 3.0       | 0.5          | 7.5                 | 50           | 4                |          |
| DMR4030R10                | ●        | 3.0       | 0.5          | 7.5                 | 50           | 4                |          |
| DMR4030R10E1              | ●        | 3.0       | 1.0          | 8                   | 75           | 4                |          |
| DMR4040R02                | ●        | 4.0       | 0.2          | 7.5                 | 50           | 4                |          |
| DMR4040R02E1              | ●        | 4.0       | 0.2          | 10                  | 75           | 4                |          |
| DMR4040R02H               | ●        | 4.0       | 0.2          | 10                  | 100          | 4                |          |
| DMR4040R05                | ●        | 4.0       | 0.5          | 10                  | 50           | 4                |          |
| DMR4040R05E1              | ●        | 4.0       | 0.5          | 10                  | 75           | 4                |          |
| DMR4040R05H               | ●        | 4.0       | 0.5          | 10                  | 100          | 4                |          |
| DMR4040R10                | ●        | 4.0       | 1.0          | 10                  | 50           | 4                |          |
| DMR4040R10E1              | ●        | 4.0       | 1.0          | 10                  | 75           | 4                |          |
| <b>NEW</b> DMR4040R10H    | ●        | 4.0       | 1.0          | 10                  | 100          | 4                |          |
| DMR4050R05                | ●        | 5.0       | 0.5          | 12.5                | 50           | 6                |          |
| DMR4060R02                | ●        | 6.0       | 0.2          | 15                  | 50           | 6                |          |
| DMR4060R02E1              | ●        | 6.0       | 0.2          | 15                  | 75           | 6                |          |
| DMR4060R02H               | ●        | 6.0       | 0.2          | 15                  | 100          | 6                |          |
| DMR4060R05                | ●        | 6.0       | 0.5          | 15                  | 50           | 6                |          |

※ 請接下頁。 ※ Continued on next page.

| 產品型號 Model No  | 在庫 Stock | 刃徑(d) F.D | 半徑(R) Radius | 刃長(L1) Flute Length | 全長(L) O.A.L. | 柄徑(D) Shank Dia. | 價格 Price |
|----------------|----------|-----------|--------------|---------------------|--------------|------------------|----------|
| DMR4060R05E1   | ●        | 6.0       | 0.5          | 15                  | 75           | 6                |          |
| DMR4060R05H    | ●        | 6.0       | 0.5          | 15                  | 100          | 6                |          |
| DMR4060R10     | ●        | 6.0       | 1.0          | 15                  | 50           | 6                |          |
| DMR4060R10E1   | ●        | 6.0       | 1.0          | 15                  | 75           | 6                |          |
| DMR4060R10H    | ●        | 6.0       | 1.0          | 15                  | 100          | 6                |          |
| DMR4080R05     | ●        | 8.0       | 0.5          | 20                  | 60           | 8                |          |
| DMR4080R05E1   | ●        | 8.0       | 0.5          | 20                  | 75           | 8                |          |
| DMR4080R05H    | ●        | 8.0       | 0.5          | 20                  | 100          | 8                |          |
| DMR4080R10     | ●        | 8.0       | 1.0          | 20                  | 60           | 8                |          |
| DMR4080R10E1   | ●        | 8.0       | 1.0          | 20                  | 75           | 8                |          |
| DMR4080R10H    | ●        | 8.0       | 1.0          | 20                  | 100          | 8                |          |
| DMR4080R15     | ●        | 8.0       | 1.5          | 20                  | 60           | 8                |          |
| DMR4100R05     | ●        | 10.0      | 0.5          | 25                  | 75           | 10               |          |
| DMR4100R05H    | ●        | 10.0      | 0.5          | 25                  | 100          | 10               |          |
| DMR4100R10     | ●        | 10.0      | 1.0          | 25                  | 75           | 10               |          |
| DMR4100R10H    | ●        | 10.0      | 1.0          | 25                  | 100          | 10               |          |
| NEW DMR4100R15 | ●        | 10.0      | 1.5          | 25                  | 75           | 10               |          |
| NEW DMR4100R20 | ●        | 10.0      | 2.0          | 25                  | 75           | 10               |          |
| DMR4120R05     | ●        | 12.0      | 0.5          | 30                  | 75           | 12               |          |
| DMR4120R05H    | ●        | 12.0      | 0.5          | 30                  | 100          | 12               |          |
| DMR4120R10     | ●        | 12.0      | 1.0          | 30                  | 75           | 12               |          |
| DMR4120R10H    | ●        | 12.0      | 1.0          | 30                  | 100          | 12               |          |
| NEW DMR4120R15 | ●        | 12.0      | 1.5          | 30                  | 75           | 12               |          |
| NEW DMR4120R20 | ●        | 12.0      | 2.0          | 30                  | 75           | 12               |          |

## DMR4000系列切削參數

The Cutting Data For DMR4000 Series

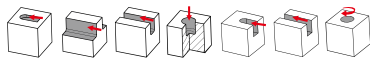
| 被加工材質 Material | 鋼、不鏽鋼、鑄鐵 Steel、Stainless steel、Iron cast |                  |
|----------------|------------------------------------------|------------------|
| 直徑 Shank(mm)   | 轉速 n (min)                               | 進給速度 Vf (mm/min) |
| 4              | 6400                                     | 520              |
| 6              | 4300                                     | 560              |
| 8              | 3200                                     | 570              |
| 10             | 2600                                     | 540              |
| 12             | 2200                                     | 540              |
| 16             | 1600                                     | 510              |
| 18             | 1400                                     | 410              |
| 20             | 1300                                     | 370              |

**A**  
 刀片  
 INSERT

**I HMA 2000**

 鋁合金專用 2 刃立銑刀  
 For Aluminum Alloy 2 Flutes End Mill

**B**

 鎢鋼端銑刀  
 CARBIDE END MILL

 新規格上市  
 New Specification Arrival

M 500

MG

CO 10%

55

**C**

 外徑車刀架  
 TOOL HOLDER

**D**

 外徑出水車刀架  
 TOOL HOLDER WITH COOLANT

**E**

 走心式車刀架  
 AUTOMATIC LATHES

**F**

 手工具  
 HAND TOOLS

**G**

 內徑車刀架  
 BORING BAR

**H**

 切斷刀架  
 GROOVING

**I**

 銑刀  
 END MILL CUTTER

**J**

 快速鑽頭  
 RAPID DRILL

**K**

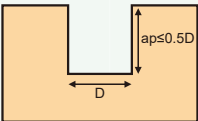
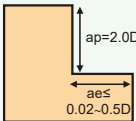
 機床配件  
 MACHINE ACCESSORIES

| 產品型號 Model No       | 在庫 Stock | 刃徑(d) F.D | 刃長(L1) Flute Length | 全長(L) O.A.L. | 柄徑(D) Shank Dia. | 價格 Price |
|---------------------|----------|-----------|---------------------|--------------|------------------|----------|
| HMA2010             | ●        | 1.0       | 3.0                 | 50           | 4                |          |
| HMA2015             | ●        | 1.5       | 4.5                 | 50           | 4                |          |
| HMA2020             | ●        | 2.0       | 6.0                 | 50           | 4                |          |
| HMA2025             | ●        | 2.5       | 7.5                 | 50           | 4                |          |
| HMA2030             | ●        | 3.0       | 9.0                 | 50           | 4                |          |
| HMA2030E1           | ●        | 3.0       | 9.0                 | 75           | 4                |          |
| HMA2030H            | ●        | 3.0       | 9.0                 | 100          | 4                |          |
| HMA2040             | ●        | 4.0       | 12.0                | 50           | 4                |          |
| HMA2040E1           | ●        | 4.0       | 12.0                | 75           | 4                |          |
| HMA2040H            | ●        | 4.0       | 12.0                | 100          | 4                |          |
| HMA2050             | ●        | 5.0       | 15.0                | 50           | 6                |          |
| HMA2050E1           | ●        | 5.0       | 15.0                | 75           | 6                |          |
| HMA2050H            | ●        | 5.0       | 15.0                | 100          | 6                |          |
| HMA2060             | ●        | 6.0       | 18.0                | 50           | 6                |          |
| HMA2060E1           | ●        | 6.0       | 18.0                | 75           | 6                |          |
| HMA2060H            | ●        | 6.0       | 18.0                | 100          | 6                |          |
| HMA2070             | ●        | 7.0       | 21.0                | 60           | 8                |          |
| HMA2080             | ●        | 8.0       | 24.0                | 60           | 8                |          |
| HMA2080E1           | ●        | 8.0       | 24.0                | 75           | 8                |          |
| HMA2080H            | ●        | 8.0       | 24.0                | 100          | 8                |          |
| HMA2080M            | ●        | 8.0       | 24.0                | 150          | 8                |          |
| <b>NEW</b> HMA2080M | ●        | 8.0       | 24.0                | 150          | 8                |          |
| HMA2090             | ●        | 9.0       | 27.0                | 75           | 10               |          |
| HMA2100             | ●        | 10.0      | 30.0                | 75           | 10               |          |
| HMA2100H            | ●        | 10.0      | 30.0                | 100          | 10               |          |
| HMA2100M            | ●        | 10.0      | 30.0                | 150          | 10               |          |
| HMA2110             | ●        | 11.0      | 33.0                | 75           | 12               |          |
| HMA2120             | ●        | 12.0      | 36.0                | 75           | 12               |          |
| HMA2120H            | ●        | 12.0      | 36.0                | 100          | 12               |          |
| HMA2120M            | ●        | 12.0      | 36.0                | 150          | 12               |          |
| HMA2160             | ●        | 16.0      | 48.0                | 100          | 16               |          |
| HMA2160M            | ●        | 16.0      | 48.0                | 150          | 16               |          |
| HMA2200             | ●        | 20.0      | 50.0                | 100          | 20               |          |
| HMA2200M            | ●        | 20.0      | 60.0                | 150          | 20               |          |



# HMA2000 系列切削參數

The Cutting Data For HMA2000 Series

| 被加工材質<br>Material        | 鋼、不鏽鋼、鑄鐵 Steel、Stainless steel、Iron cast                                                     |                                                                                           |         |
|--------------------------|----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|---------|
| 直徑 Shank(mm)             | 轉速 n (min)                                                                                   | 進給速度 Vf (mm/min)                                                                          |         |
|                          |                                                                                              | 開槽 Slotted                                                                                | 側邊 Side |
| 4                        | 15500                                                                                        | 1200                                                                                      | 800     |
| 6                        | 10500                                                                                        | 1400                                                                                      | 900     |
| 8                        | 8000                                                                                         | 1600                                                                                      | 1000    |
| 10                       | 6400                                                                                         | 1700                                                                                      | 1100    |
| 12                       | 5400                                                                                         | 1500                                                                                      | 950     |
| 16                       | 3900                                                                                         | 1500                                                                                      | 950     |
| 18                       | 3600                                                                                         | 1300                                                                                      | 950     |
| 20                       | 3200                                                                                         | 1300                                                                                      | 900     |
| 切深量 Depth<br>(D : 刃徑F.D) | 開槽 Slotted  | 側邊 Side  |         |

A  
刀片  
INSERT

B  
鎢鋼端銑刀  
CARBIDE END MILL

C  
外徑車刀架  
TOOL HOLDER

D  
外徑出水車刀架  
TOOL HOLDER WITH COOLANT

E  
走心式車刀架  
AUTOMATIC LATHES

F  
手工具  
HAND TOOLS

G  
內徑車刀架  
BORING BAR

H  
切斷刀架  
GROOVING

I  
銑刀  
END MILL CUTTER

J  
快速鑽頭  
RAPID DRILL

K  
機床配件  
MACHINE ACCESSORIES

A  
刀片  
INSERT

B

 鎢鋼端銑刀  
CARBIDE END MILL

C

 外徑車刀架  
TOOL HOLDER

D

 外徑出水車刀架  
TOOL HOLDER  
WITH COOLANT

E

 走心式車刀架  
AUTOMATIC LATHES

F

 手工工具  
HAND TOOLS

G

 內徑車刀架  
BORING BAR

H

 切斷刀架  
GROOVING

I

 銑刀  
END MILL  
CUTTER

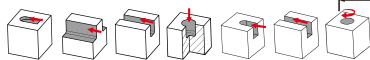
J

 快速鑽頭  
RAPID DRILL

K

 機床配件  
MACHINE  
ACCESSORIES

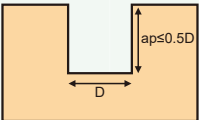
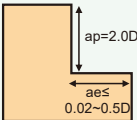
## HMA 3000

 鋁合金專用 4 刃立銑刀  
For Aluminum Alloy  
4 Flutes End Mill


| 產品型號 Model No | 在庫 Stock | 刃徑(d) F.D | 刃長(L1) Flute Length | 全長(L) O.A.L. | 柄徑(D) Shank Dia. | 價格 Price |
|---------------|----------|-----------|---------------------|--------------|------------------|----------|
| HMA3010       | ●        | 1.0       | 3.0                 | 50           | 4                |          |
| HMA3015       | ●        | 1.5       | 4.5                 | 50           | 4                |          |
| HMA3020       | ●        | 2.0       | 6.0                 | 50           | 4                |          |
| HMA3025       | ●        | 2.5       | 7.5                 | 50           | 4                |          |
| HMA3030       | ●        | 3.0       | 9.0                 | 50           | 4                |          |
| HMA3040       | ●        | 4.0       | 12.0                | 50           | 4                |          |
| HMA3050       | ●        | 5.0       | 15.0                | 50           | 6                |          |
| HMA3060       | ●        | 6.0       | 18.0                | 50           | 6                |          |
| HMA3070       | ●        | 7.0       | 21.0                | 60           | 8                |          |
| HMA3080       | ●        | 8.0       | 24.0                | 60           | 8                |          |
| HMA3090       | ●        | 9.0       | 27.0                | 75           | 10               |          |
| HMA3100       | ●        | 10.0      | 30.0                | 75           | 10               |          |
| HMA3110       | ●        | 11.0      | 33.0                | 75           | 12               |          |
| HMA3120       | ●        | 12.0      | 36.0                | 75           | 12               |          |
| HMA3160       | ●        | 16.0      | 48.0                | 100          | 16               |          |
| HMA3200       | ●        | 20.0      | 60.0                | 100          | 20               |          |

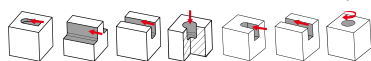
## HMA3000 系列切削參數

The Cutting Data For HMA3000 Series

| 被加工材質 Material            | 鋼、不鏽鋼、鑄鐵 Steel、Stainless steel、Iron cast |                                                                                     |                                                                                                |
|---------------------------|------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| 直徑 Shank(mm)              | 轉速 n (min)                               | 進給速度 Vf (mm/min)                                                                    |                                                                                                |
|                           |                                          | 開槽 Slotted                                                                          | 側邊 Side                                                                                        |
| 4                         | 15500                                    | 1200                                                                                | 800                                                                                            |
| 6                         | 10500                                    | 1400                                                                                | 900                                                                                            |
| 8                         | 8000                                     | 1600                                                                                | 1000                                                                                           |
| 10                        | 6400                                     | 1700                                                                                | 1100                                                                                           |
| 12                        | 5400                                     | 1500                                                                                | 950                                                                                            |
| 16                        | 3900                                     | 1500                                                                                | 950                                                                                            |
| 18                        | 3600                                     | 1300                                                                                | 950                                                                                            |
| 20                        | 3200                                     | 1300                                                                                | 950                                                                                            |
| 切深量 Depth<br>(D : 刃徑 F.D) | 開槽 Slotted                               |  | 側邊 Side<br> |

# GMA 2000

鋁合金專用 2 刃立銑刀  
For Aluminum Alloy  
2 Flutes End Mill



A  
刀片  
INSERT

B  
鎢鋼端銑刀  
CARBIDE END MILL

C  
外徑車刀架  
TOOL HOLDER

D  
外徑出水車刀架  
TOOL HOLDER  
WITH COOLANT

E  
走心式車刀架  
AUTOMATIC LATHES

F  
手工具  
HAND TOOLS

G  
內徑車刀架  
BORING BAR

H  
切斷刀架  
GROOVING

I  
銑刀  
END MILL  
CUTTER

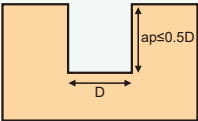
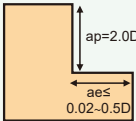
J  
快速鑽頭  
RAPID DRILL

K  
機床配件  
MACHINE  
ACCESSORIES

| 產品型號 Model No | 在庫 Stock | 刃徑(d) F.D | 刃長(L1) Flute Lenght | 全長(L) O.A.L. | 柄徑(D) Shank Dia. | 價格 Price |
|---------------|----------|-----------|---------------------|--------------|------------------|----------|
| GMA2060       | ●        | 6         | 18                  | 50           | 6                |          |
| GMA2080       | ●        | 8         | 24                  | 60           | 8                |          |
| GMA2100       | ●        | 10        | 30                  | 75           | 10               |          |

## GMA2000系列切削參數

The Cutting Data For GMA2000 Series

| 被加工材質<br>Material        | 鋼、不鏽鋼、鑄鐵 Steel、Stainless steel、Iron cast |                                                                                     |                                                                                     |
|--------------------------|------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 直徑 Shank(mm)             | 轉速 n (min)                               | 進給速度 Vf (mm/min)                                                                    |                                                                                     |
|                          |                                          | 開槽 Slotted                                                                          | 側邊 Side                                                                             |
| 4                        | 15500                                    | 1200                                                                                | 800                                                                                 |
| 6                        | 10500                                    | 1400                                                                                | 900                                                                                 |
| 8                        | 8000                                     | 1600                                                                                | 1000                                                                                |
| 10                       | 6400                                     | 1700                                                                                | 1100                                                                                |
| 12                       | 5400                                     | 1500                                                                                | 950                                                                                 |
| 16                       | 3900                                     | 1500                                                                                | 950                                                                                 |
| 18                       | 3600                                     | 1300                                                                                | 950                                                                                 |
| 20                       | 3200                                     | 1300                                                                                | 950                                                                                 |
| 切深量 Depth<br>(D : 刃徑F.D) | 開槽 Slotted                               |  | 側邊 Side                                                                             |
|                          |                                          |                                                                                     |  |

**A**  
 刀片  
 INSERT

**B**

 鎢鋼端銑刀  
 CARBIDE END MILL

**C**

 外徑車刀架  
 TOOL HOLDER

**D**

 外徑出水車刀架  
 TOOL HOLDER  
 WITH COOLANT

**E**

 走心式車刀架  
 AUTOMATIC LATHES

**F**

 手工工具  
 HAND TOOLS

**G**

 內徑車刀架  
 BORING BAR

**H**

 切斷刀架  
 GROOVING

**I**

 銑刀  
 END MILL  
 CUTTER

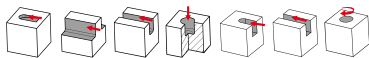
**J**

 快速鑽頭  
 RAPID DRILL

**K**

 機床配件  
 MACHINE  
 ACCESSORIES

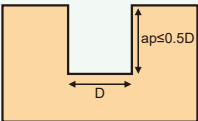
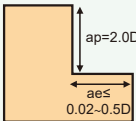
**I GMA 3000**

 鋁合金專用3刃立銑刀  
 For Aluminum Alloy  
 3 Flutes End Mill


| 產品型號 Model No | 在庫 Stock | 刃徑(d) F.D | 刃長(L1) Flute Length | 全長(L) O.A.L. | 柄徑(D) Shank Dia. | 價格 Price |
|---------------|----------|-----------|---------------------|--------------|------------------|----------|
| GMA3010       | ●        | 1.0       | 3.0                 | 50           | 4                |          |
| GMA3015       | ●        | 1.5       | 4.5                 | 50           | 4                |          |
| GMA3020       | ●        | 2.0       | 6.0                 | 50           | 4                |          |
| GMA3025       | ●        | 2.5       | 7.5                 | 50           | 4                |          |
| GMA3030       | ●        | 3.0       | 9.0                 | 50           | 4                |          |
| GMA3030H      | ●        | 3.0       | 9.0                 | 100          | 4                |          |
| GMA3040       | ●        | 4.0       | 12.0                | 50           | 4                |          |
| GMA3040H      | ●        | 4.0       | 12.0                | 100          | 4                |          |
| GMA3040D6     | ●        | 4.0       | 12.0                | 50           | 6                |          |
| GMA3050       | ●        | 5.0       | 15.0                | 50           | 6                |          |
| GMA3050H      | ●        | 5.0       | 15.0                | 100          | 6                |          |
| GAM3060       | ●        | 6.0       | 18.0                | 50           | 6                |          |
| GMA3060H      | ●        | 6.0       | 18.0                | 100          | 6                |          |
| GMA3080       | ●        | 8.0       | 24.0                | 60           | 8                |          |
| GMA3080H      | ●        | 8.0       | 24.0                | 100          | 8                |          |
| GMA3080M      | ●        | 8.0       | 24.0                | 150          | 8                |          |
| GMA3100       | ●        | 10.0      | 30.0                | 75           | 10               |          |
| GMA3100M      | ●        | 10.0      | 30.0                | 150          | 10               |          |
| GMA3120       | ●        | 12.0      | 36.0                | 75           | 12               |          |
| GMA3120H      | ●        | 12.0      | 36.0                | 100          | 12               |          |
| GMA3120M      | ●        | 12.0      | 36.0                | 150          | 12               |          |
| GMA3160       | ●        | 16.0      | 48.0                | 100          | 16               |          |
| GMA3200       | ●        | 20.0      | 50.0                | 100          | 20               |          |

# GMA3000系列切削參數

The Cutting Data For GMA3000 Series

| 被加工材質<br>Material        | 鋼、不鏽鋼、鑄鐵 Steel、Stainless steel、Iron cast                                                     |                                                                                           |         |
|--------------------------|----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|---------|
| 直徑 Shank(mm)             | 轉速 n (min)                                                                                   | 進給速度 Vf (mm/min)                                                                          |         |
|                          |                                                                                              | 開槽 Slotted                                                                                | 側邊 Side |
| 4                        | 15500                                                                                        | 1200                                                                                      | 800     |
| 6                        | 10500                                                                                        | 1400                                                                                      | 900     |
| 8                        | 8000                                                                                         | 1600                                                                                      | 1000    |
| 10                       | 6400                                                                                         | 1700                                                                                      | 1100    |
| 12                       | 5400                                                                                         | 1500                                                                                      | 950     |
| 16                       | 3900                                                                                         | 1500                                                                                      | 950     |
| 18                       | 3600                                                                                         | 1300                                                                                      | 950     |
| 20                       | 3200                                                                                         | 1300                                                                                      | 950     |
| 切深量 Depth<br>(D : 刃徑F.D) | 開槽 Slotted  | 側邊 Side  |         |

A  
刀片  
INSERT

B  
鎢鋼端銑刀  
CARBIDE END MILL

C  
外徑車刀架  
TOOL HOLDER

D  
外徑出水車刀架  
TOOL HOLDER WITH COOLANT

E  
走心式車刀架  
AUTOMATIC LATHES

F  
手工具  
HAND TOOLS

G  
內徑車刀架  
BORING BAR

H  
切斷刀架  
GROOVING

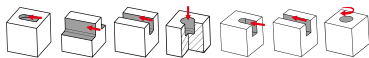
I  
銑刀  
END MILL CUTTER

J  
快速鑽頭  
RAPID DRILL

K  
機床配件  
MACHINE ACCESSORIES

# MU2-HMA 3000

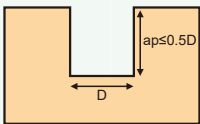
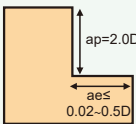
鋁合金專用3刃圓溝2離隙立銼刀  
 For Aluminum Alloy  
 3 Flutes Rounded Land Double Edge  
 End Mill



| 產品型號 Model No | 在庫 Stock | 刃徑(d) F.D | 刃長(L1) Flute Length | 全長(L) O.A.L. | 柄徑(D) Shank Dia. | 價格 Price |
|---------------|----------|-----------|---------------------|--------------|------------------|----------|
| MU2-HMA3040   | ●        | 4         | 12                  | 50           | 4                |          |
| MU2-HMA3060   | ●        | 6         | 18                  | 50           | 6                |          |
| MU2-HMA3080   | ●        | 8         | 24                  | 60           | 8                |          |
| MU2-HMA3100   | ●        | 10        | 30                  | 75           | 10               |          |
| MU2-HMA3120   | ●        | 12        | 36                  | 75           | 12               |          |

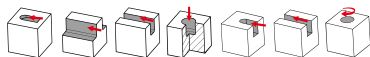
## MU2-HMA3000系列切削參數

The Cutting Data For MU2-HMA3000 Series

| 被加工材質 Material           | 鋼、不鏽鋼、鑄鐵 Steel、Stainless steel、Iron cast                                                          |                                                                                                |         |
|--------------------------|---------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|---------|
| 直徑 Shank(mm)             | 轉速 n (min)                                                                                        | 進給速度 Vf (mm/min)                                                                               |         |
|                          |                                                                                                   | 開槽 Slotted                                                                                     | 側邊 Side |
| 4                        | 15500                                                                                             | 1200                                                                                           | 800     |
| 6                        | 10500                                                                                             | 1400                                                                                           | 900     |
| 8                        | 8000                                                                                              | 1600                                                                                           | 1000    |
| 10                       | 6400                                                                                              | 1700                                                                                           | 1100    |
| 12                       | 5400                                                                                              | 1500                                                                                           | 950     |
| 16                       | 3900                                                                                              | 1500                                                                                           | 950     |
| 18                       | 3600                                                                                              | 1300                                                                                           | 950     |
| 20                       | 3200                                                                                              | 1300                                                                                           | 950     |
| 切深量 Depth<br>(D : 刃徑F.D) | 開槽 Slotted<br> | 側邊 Side<br> |         |

## MU2-GMA 3000

鋁合金專用 3 刃圓溝 2 離隙立銑刀  
For Aluminum Alloy  
3 Flutes Rounded Land Double Edge  
End Mill



新規格上市  
New Specification Arrival

M 500

MG

CO 10%

45

A  
刀片  
INSERT

B  
鎢鋼端銑刀  
CARBIDE END MILL

C  
外徑車刀架  
TOOL HOLDER

D  
外徑出水車刀架  
TOOL HOLDER WITH COOLANT

E  
走心式車刀架  
AUTOMATIC LATHES

F  
手工具  
HAND TOOLS

G  
內徑車刀架  
BORING BAR

H  
切斷刀架  
GROOVING

I  
銑刀  
END MILL CUTTER

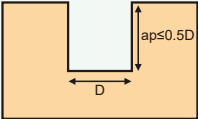
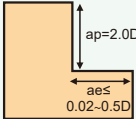
J  
快速鑽頭  
RAPID DRILL

K  
機床配件  
MACHINE ACCESSORIES

| 產品型號 Model No     | 在庫 Stock | 刃徑(d) F.D | 刃長(L1) Flute Length | 全長(L) O.A.L. | 柄徑(D) Shank Dia. | 價格 Price |
|-------------------|----------|-----------|---------------------|--------------|------------------|----------|
| MU2-GMA3040       | ●        | 4.0       | 12                  | 50           | 4                |          |
| NEW MU2-GMA3040D6 | ●        | 4.0       | 12                  | 50           | 6                |          |
| NEW MU2-GMA3050   | ●        | 5.0       | 15                  | 50           | 6                |          |
| MU2-GMA3060       | ●        | 6.0       | 18                  | 50           | 6                |          |
| MU2-GMA3080       | ●        | 8.0       | 24                  | 60           | 8                |          |
| NEW MU2-GMA3080E1 | ●        | 8.0       | 24                  | 75           | 8                |          |
| NEW MU2-GMA3080H  | ●        | 8.0       | 24                  | 100          | 8                |          |
| NEW MU2-GMA3080M  | ●        | 8.0       | 24                  | 150          | 8                |          |
| MU2-GMA3100       |          | 10.0      | 30                  | 75           | 10               |          |
| NEW MU2-GMA3100E1 | ●        | 10.0      | 30                  | 75           | 10               |          |
| MU2-GMA3100M      |          | 10.0      | 30                  | 150          | 10               |          |
| MU2-GMA3120       |          | 12.0      | 36                  | 75           | 12               |          |
| MU2-GMA3120H      |          | 12.0      | 36                  | 100          | 12               |          |
| NEW MU2-GMA3120M  |          | 12.0      | 36                  | 150          | 12               |          |
| NEW MU2-GMA3160   |          | 16.0      | 48                  | 100          | 16               |          |
| NEW MU2-GMA3200   |          | 20.0      | 60                  | 100          | 20               |          |

## MU2-GMA3000系列切削參數

The Cutting Data For MU2-GMA3000 Series

| 被加工材質 Material        | 鋼、不鏽鋼、鑄鐵 Steel / Stainless steel / Iron cast                                        |                                                                                     |         |
|-----------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------|
| 直徑 Shank(mm)          | 轉速 n (min)                                                                          | 進給速度 Vf (mm/min)                                                                    |         |
|                       |                                                                                     | 開槽 Slotted                                                                          | 側邊 Side |
| 4                     | 15500                                                                               | 1200                                                                                | 800     |
| 6                     | 10500                                                                               | 1400                                                                                | 900     |
| 8                     | 8000                                                                                | 1600                                                                                | 1000    |
| 10                    | 6400                                                                                | 1700                                                                                | 1100    |
| 12                    | 5400                                                                                | 1500                                                                                | 950     |
| 16                    | 3900                                                                                | 1500                                                                                | 950     |
| 18                    | 3600                                                                                | 1300                                                                                | 950     |
| 20                    | 3200                                                                                | 1300                                                                                | 950     |
| 切深量 Depth (D : 刃徑F.D) | 開槽 Slotted                                                                          | 側邊 Side                                                                             |         |
|                       |  |  |         |

For Aluminum Alloy 3 Flutes Rounded Land Double Edge End Mill

鋁合金專用 3 刃圓溝 2 離隙立銑刀

**CHAIN**  
Echaintool cutting tools

A  
刀片  
INSERT

 B  
鎢鋼端銑刀  
CARBIDE END MILL

 C  
外徑車刀架  
TOOL HOLDER

 D  
外徑出水車刀架  
TOOL HOLDER  
WITH COOLANT

 E  
走心式車刀架  
AUTOMATIC LATHES

 F  
手工工具  
HAND TOOLS

 G  
內徑車刀架  
BORING BAR

 H  
切斷刀架  
GROOVING

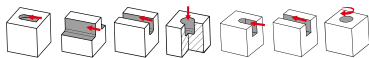
 I  
銑刀  
END MILL  
CUTTER

 J  
快速鑽頭  
RAPID DRILL

 K  
機床配件  
MACHINE  
ACCESSORIES

## FM-CMM 4000

### 4 刃精加工粗銑刀

 4 Flutes Fine Pitch &  
Finishing Roughing End Mill

 新品上市  
New Arrival

 M  
500

MG

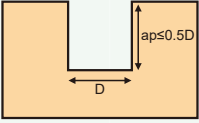
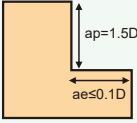
 CO  
10%

25

| 產品型號 Model No             | 在庫 Stock | 刃徑(d) F.D | 刃長(L1) Flute Length | 全長(L) O.A.L. | 柄徑(D) Shank Dia. | 價格 Price |
|---------------------------|----------|-----------|---------------------|--------------|------------------|----------|
| <b>NEW</b> FM-CMM4060     | ●        | 6         | 15                  | 50           | 6                |          |
| <b>NEW</b> FM-CMM4080     | ●        | 8         | 20                  | 60           | 8                |          |
| <b>NEW</b> FM-CMM4100     | ●        | 10        | 25                  | 75           | 10               |          |
| <b>NEW</b> FM-CMM4120     | ●        | 12        | 30                  | 75           | 12               |          |
| <b>NEW</b> FM-CMM4120L136 | ●        | 12        | 36                  | 75           | 12               |          |
| <b>NEW</b> FM-CMM4160     | ●        | 16        | 48                  | 100          | 16               |          |

## FM-CMM4000系列切削參數

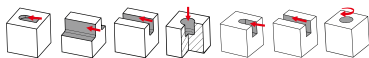
The Cutting Data For FM-CMM4000 Series

| 被加工材質 Material           | 鋼、不鏽鋼、鑄鐵 Steel、Stainless steel、Iron cast                                            |                                                                                     |         |
|--------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------|
| 直徑 Shank(mm)             | 轉速 n (min)                                                                          | 進給速度 Vf (mm/min)                                                                    |         |
|                          |                                                                                     | 開槽 Slotted                                                                          | 側邊 Side |
| 4                        | 4800                                                                                | 135                                                                                 | 475     |
| 6                        | 3100                                                                                | 120                                                                                 | 325     |
| 8                        | 2300                                                                                | 120                                                                                 | 375     |
| 10                       | 1900                                                                                | 120                                                                                 | 375     |
| 12                       | 1600                                                                                | 120                                                                                 | 275     |
| 16                       | 1200                                                                                | 135                                                                                 | 200     |
| 18                       | 1100                                                                                | 135                                                                                 | 175     |
| 20                       | 950                                                                                 | 135                                                                                 | 165     |
| 切深量 Depth<br>(D : 刃徑F.D) | 開槽 Slotted                                                                          | 側邊 Side                                                                             |         |
|                          |  |  |         |



## RM-CMM 4000

4 刃粗加工粗銑刀  
4 Flutes Fine Pitch &  
Roughing End Mill



新品上市  
New Arrival

M  
500

MG

CO  
10%

25

| 產品型號 Model No             | 在庫 Stock | 刃徑(d) F.D | 刃長(L1) Flute Length | 全長(L) O.A.L. | 柄徑(D) Shank Dia. | 價格 Price |
|---------------------------|----------|-----------|---------------------|--------------|------------------|----------|
| <b>NEW</b> RM-CMM4060     | ●        | 6         | 15                  | 50           | 6                |          |
| <b>NEW</b> RM-CMM4080     | ●        | 8         | 20                  | 60           | 8                |          |
| <b>NEW</b> RM-CMM4100     | ●        | 10        | 25                  | 75           | 10               |          |
| <b>NEW</b> RM-CMM4120     | ●        | 12        | 30                  | 75           | 12               |          |
| <b>NEW</b> RM-CMM4120L136 | ●        | 12        | 36                  | 75           | 12               |          |
| <b>NEW</b> RM-CMM4160     | ●        | 16        | 48                  | 100          | 16               |          |

## RM-CMM4000系列切削參數

The Cutting Data For RM-CMM4000 Series

| 被加工材質 Material           | 鋼、不鏽鋼、鑄鐵 Steel、Stainless steel、Iron cast |                  |         |
|--------------------------|------------------------------------------|------------------|---------|
| 直徑 Shank(mm)             | 轉速 n (min)                               | 進給速度 Vf (mm/min) |         |
|                          |                                          | 開槽 Slotted       | 側邊 Side |
| 4                        | 4800                                     | 135              | 475     |
| 6                        | 3100                                     | 120              | 325     |
| 8                        | 2300                                     | 120              | 375     |
| 10                       | 1900                                     | 120              | 375     |
| 12                       | 1600                                     | 120              | 275     |
| 16                       | 1200                                     | 135              | 200     |
| 18                       | 1100                                     | 135              | 175     |
| 20                       | 950                                      | 135              | 165     |
| 切深量 Depth<br>(D : 刃徑F.D) | 開槽 Slotted                               |                  | 側邊 Side |
|                          |                                          |                  |         |

4 Flutes Fine Pitch & Roughing End Mill 4 刃粗加工粗銑刀



A  
刀片  
INSERT

B  
鎢鋼端銑刀  
CARBIDE END MILL

C  
外徑車刀架  
TOOL HOLDER

D  
外徑出水車刀架  
TOOL HOLDER  
WITH COOLANT

E  
走心式車刀架  
AUTOMATIC LATHES

F  
手工具  
HAND TOOLS

G  
內徑車刀架  
BORING BAR

H  
切斷刀架  
GROOVING

I  
銑刀  
END MILL  
CUTTER

J  
快速鑽頭  
RAPID DRILL

K  
機床配件  
MACHINE  
ACCESSORIES

A  
刀片  
INSERT

 B  
鎢鋼端銼刀  
CARBIDE END MILL

 C  
外徑車刀架  
TOOL HOLDER

 D  
外徑出水車刀架  
TOOL HOLDER  
WITH COOLANT

 E  
走心式車刀架  
AUTOMATIC LATHES

 F  
手工具  
HAND TOOLS

 G  
內徑車刀架  
BORING BAR

 H  
切斷刀架  
GROOVING

 I  
銼刀  
END MILL  
CUTTER

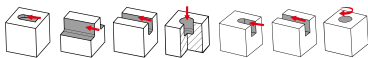
 J  
快速鑽頭  
RAPID DRILL

 K  
機床配件  
MACHINE  
ACCESSORIES

## EMM2000T00

### 2 刃斜度立銼刀

### 2 Flutes Tapered End Mill


 新品上市  
New Arrival

M 500

MG

CO 10%

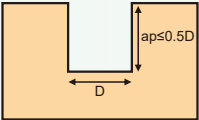
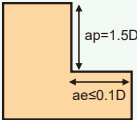
35

Altin

| 產品型號 Model No          | 在庫 Stock | 刃徑(d) F.D | 粗端徑(d1) | 刃斜角(α°) Taper Angle | 刃長(L1) Flute Length | 全長(L) O.A.L. | 柄徑(D) Shank Dia. | 價格 Price |
|------------------------|----------|-----------|---------|---------------------|---------------------|--------------|------------------|----------|
| <b>NEW</b> EMM2025T030 | ●        | 3.34      | 2.5     | 3°                  | 8                   | 50           | 4                |          |
| <b>NEW</b> EMM2040T030 | ●        | 5.57      | 4.0     | 3°                  | 15                  | 50           | 6                |          |
| <b>NEW</b> EMM2060T030 | ●        | 7.89      | 6.0     | 3°                  | 18                  | 60           | 8                |          |
| <b>NEW</b> EMM2080T030 | ●        | 10.62     | 8.0     | 3°                  | 25                  | 75           | 12               |          |
| <b>NEW</b> EMM2100T030 | ●        | 13.67     | 10.0    | 3°                  | 35                  | 100          | 16               |          |

## EMM200T000系列切削參數

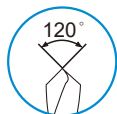
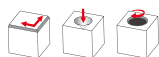
The Cutting Data For EMM2000T00 Series

| 被加工材質 Material           | 鋼、不鏽鋼、鑄鐵 Steel、Stainless steel、Iron cast |                                                                                     |                                                                                     |
|--------------------------|------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 直徑 Shank(mm)             | 轉速 n (min)                               | 進給速度 Vf (mm/min)                                                                    |                                                                                     |
|                          |                                          | 開槽 Slotted                                                                          | 側邊 Side                                                                             |
| 4                        | 4800                                     | 135                                                                                 | 475                                                                                 |
| 6                        | 3100                                     | 120                                                                                 | 325                                                                                 |
| 8                        | 2300                                     | 120                                                                                 | 375                                                                                 |
| 10                       | 1900                                     | 120                                                                                 | 375                                                                                 |
| 12                       | 1600                                     | 120                                                                                 | 275                                                                                 |
| 16                       | 1200                                     | 135                                                                                 | 200                                                                                 |
| 18                       | 1100                                     | 135                                                                                 | 175                                                                                 |
| 20                       | 950                                      | 135                                                                                 | 165                                                                                 |
| 切深量 Depth<br>(D : 刃徑F.D) | 開槽 Slotted                               |  | 側邊 Side                                                                             |
|                          |                                          |                                                                                     |  |

## DR-DMC 2000

### 2 刃定位鑽

### 2 Flutes Positioning Drill



新品上市  
New Arrival

M  
500

MG

CO  
10%

30

Altin

| 產品型號 Model No         | 在庫 Stock | 刃徑(d) F.D | 刃長(L1) Flute Lenght | 全長(L) O.A.L. | 柄徑(D) Shank Dia. | 價格 Price |
|-----------------------|----------|-----------|---------------------|--------------|------------------|----------|
| <b>NEW</b> DR-DMC2030 | ●        | 3         | 8                   | 50           | 3                |          |
| <b>NEW</b> DR-DMC2040 | ●        | 4         | 12                  | 50           | 4                |          |
| <b>NEW</b> DR-DMC2050 | ●        | 5         | 15                  | 50           | 5                |          |
| <b>NEW</b> DR-DMC2060 | ●        | 6         | 20                  | 60           | 6                |          |
| <b>NEW</b> DR-DMC2080 | ●        | 8         | 25                  | 60           | 8                |          |
| <b>NEW</b> DR-DMC2100 | ●        | 10        | 25                  | 75           | 10               |          |
| <b>NEW</b> DR-DMC2120 | ●        | 12        | 30                  | 75           | 12               |          |
| <b>NEW</b> DR-DMC2160 | ●        | 16        | 35                  | 100          | 16               |          |
| <b>NEW</b> DR-DMC2200 | ●        | 20        | 40                  | 100          | 20               |          |

A  
刀片  
INSERT

B  
鎢鋼端銑刀  
CARBIDE END MILL

C  
外徑車刀架  
TOOL HOLDER

D  
外徑出水車刀架  
TOOL HOLDER WITH COOLANT

E  
走心式車刀架  
AUTOMATIC LATHES

F  
手工具  
HAND TOOLS

G  
內徑車刀架  
BORING BAR

H  
切斷刀架  
GROOVING

I  
銑刀  
END MILL CUTTER

J  
快速鑽頭  
RAPID DRILL

K  
機床配件  
MACHINE ACCESSORIES

## DC-DMC 2000

### 2 刃定位鑽

### 2 Flutes Positioning Drill



新品上市  
New Arrival

M  
500

MG

0.6  
µm

CO  
10%

30

Altin

| 產品型號 Model No           | 在庫 Stock | 刃徑(d) F.D | 刃長(L1) Flute Lenght | 全長(L) O.A.L. | 柄徑(D) Shank Dia. | 價格 Price |
|-------------------------|----------|-----------|---------------------|--------------|------------------|----------|
| <b>NEW</b> DC-DMC2030   | ●        | 3         | 8                   | 50           | 3                |          |
| <b>NEW</b> DC-DMC2040   | ●        | 4         | 12                  | 50           | 4                |          |
| <b>NEW</b> DC-DMC2040E1 | ●        | 4         | 12                  | 75           | 4                |          |
| <b>NEW</b> DC-DMC2050   | ●        | 5         | 15                  | 50           | 5                |          |
| <b>NEW</b> DC-DMC2060   | ●        | 6         | 20                  | 60           | 6                |          |
| <b>NEW</b> DC-DMC2080   | ●        | 8         | 25                  | 60           | 8                |          |
| <b>NEW</b> DC-DMC2100   | ●        | 10        | 25                  | 75           | 10               |          |
| <b>NEW</b> DC-DMC2120   | ●        | 12        | 30                  | 75           | 12               |          |
| <b>NEW</b> DC-DMC2160   | ●        | 16        | 35                  | 100          | 16               |          |
| <b>NEW</b> DC-DMC2200   | ●        | 20        | 40                  | 100          | 20               |          |

2 Flutes Positioning Drill 2 刃定位鑽



# DR-DMC2000 / DC-DMC2000 系列切削參數

The Cutting Data For DR-DMC2000 / DC-DMC2000 Series

| 被加工材質<br>Material | 鋼、不鏽鋼、鑄鐵 Steel、Stainless steel、Iron cast |                  |
|-------------------|------------------------------------------|------------------|
| 直徑 Shank(mm)      | 轉速 n (min)                               | 進給速度 Vf (mm/min) |
| 4                 | 5500                                     | 220              |
| 6                 | 3700                                     | 150              |
| 8                 | 2800                                     | 120              |
| 10                | 2300                                     | 90               |
| 12                | 1900                                     | 80               |
| 16                | 1400                                     | 60               |
| 18                | 1300                                     | 50               |
| 20                | 110                                      | 45               |

 A  
刀片  
INSERT

 B  
鎢鋼端銑刀  
CARBIDE END MILL

 C  
外徑車刀架  
TOOL HOLDER

 D  
外徑出水車刀架  
TOOL HOLDER  
WITH COOLANT

 E  
走心式車刀架  
AUTOMATIC LATHES

 F  
手工具  
HAND TOOLS

 G  
內徑車刀架  
BORING BAR

 H  
切斷刀架  
GROOVING

 I  
銑刀  
END MILL  
CUTTER

 J  
快速鑽頭  
RAPID DRILL

 K  
機床配件  
MACHINE  
ACCESSORIES