

# B

## 鎢鋼端銑刀 Carbide End Mill



鎢鋼端銑刀識別系統	Carbide End Mill Identification System	B02 - B03
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### ◎平刀系列 Square Type Series

S-EMM 2000	B14
S-EMML 2000L2	B15 - B16
S-OGM 2000	B17 - B18
NEW EMM 2000	B19 - B20
NEW EMM 2000L1	B21 - B24
NEW EMM 3000	B25
NEW EMM 4000	B26 - B27
NEW EMM 4000L1	B28 - B29
NEW EMM 2000T00	B30
NEW EPM 2000	B31
NEW EPM 3000	B32
NEW GMM 4000	B33 - B34
NEW MU-EMM 4000	B35 - B36
NEW MU-GMM 4000	B37 - B40
NEW MU2-GPM 4000	B41
NEW MUH-GMM 4000	B42
NEW MUH-IMM 4000	B43 - B44
NEW MUH-IMM 4000-DIN	B45
NEW MUH-FMM 4000	B46 - B47
NEW MUH-IGM 4000	B48
NEW MUH-HEM 4000	B49
NEW MUH-IPM 3000L1	B50
NEW MUH-IPM 4000	B51 - B52
NEW MUH-FPM 4000	B53
NEW MMH-LMM 4000	B54 - B55
NEW MMH-LPM 4000	B56
NEW LUH-IMM 4000	B57
NEW GMM 6000	B58
NEW FM-CMM 4000	B59
NEW RM-CMM 4000	B59
NEW CFM-CWM	B60

### ◎球頭刀系列 Ball Nose Type Series

S-EMB 2000	B61
S-EMB 2000L2	B62
NEW S-EPB 2000	B63
NEW EMB 2000L2	B64 - B65
NEW EMB 2000	B66 - B67
NEW EEB 2000	B68
NEW EPB 2000	B69
NEW EPB 4000	B70
NEW EWB 2000	B71
NEW EMB 4000	B72 - B73
NEW DMB 2000	B74
NEW DPB 2000	B74
NEW DWB 2000L2	B75

### ◎酒桶刀系列 Barrel Tungsten Series

NEW PA-DPB	B76 - B77
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### ◎內R角刀系列 Inner R Series

EPU 4000L1	B78
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### ◎圓鼻刀系列 Corner Radius Type Series

DMR 2000R00L2	B79
NEW DMR 2000R00	B80 - B81
NEW DMR 4000R00	B82 - B84
NEW GPR 6000R00	B85
NEW SUH-FYR 4000R00	B86
NEW PH-FMR 4000R00	B88
NEW PH-FER 4000R00	B89
NEW PH-FPR 4000R00	B90
NEW PH-FPC 4000C00	B91

### ◎倒角刀系列 Chamfer Type Series

NEW DC-DMC 2000	B93
NEW DT-DMC 2000	B93
NEW DR-DMC 2000	B94
NEW DC-DMM 2000	B95 - B96
NEW DR-DMM 2000	B95 - B96
NEW DC-DPC 2000	B97
NEW DC-DWC 2000	B98
NEW DR-DWC 2000	B98
NEW DCM-EPC 3000	B99
NEW CC-AMC	B100 - B101
NEW CR-AMC	B100 - B101

### ◎外R倒角刀系列 Outer R Chamfer Series

AMI 2000	B102
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### ◎T型槽刀系列 T-Slot Series

NEW AMT	B103
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### ◎雕刻立銑刀系列

Engraving End Mill Series	
NEW E180-AWA 1000L1	B104 - B105
NEW E030-AWC 1000L1	B104 - B105

### ◎鋁用刀系列 Aluminum Type Series

GMA 2000	B106
NEW GMA 3000	B107 - B108
NEW HMA 2000	B109 - B110
NEW HMA 3000	B111
NEW MU2-GMA 3000	B112
NEW MU2-HMA 3000	B113
NEW MU3-JMA 3000	B114

# 鎢鋼端銑刀識別系統

Carbide End Mill Identification System

# MUH - E M M L



## 1 特徵 Feature

記號 Symbol	特徵 Feature	
S	微小徑 Micro Diameter	
E180	平行雕刻刀 Engraving Blanks Precision Ground	
E090	90°雕刻刀 90° Engraving Blanks Precision Ground	
E060	60°雕刻刀 60° Engraving Blanks Precision Ground	
E030	30°雕刻刀 30° Engraving Blanks Precision Ground	
MMH	平溝不等分割 Flat Land Uneven Division	
MU	圓溝 Rounded Land	
MU2	圓溝 2 離隙 Rounded Land Double Edge	
MU3	圓溝 3 離隙 Rounded Land Triple Edge	
MUH	圓溝不等分割 Rounded Land Unequal Division	
KUH	圓溝不等分割鑄鐵加工用 Round Land Unequal Split for Cast Iron Processing	
LUH	圓溝不等分割車銑複合端銑刀 Round Land Unequal Split For Turning And Milling Center Carbide End Mill	
SUH	圓溝不等分割高進給 Round Land Unequal Division High Feed	
PA	酒桶銑刀 Barrel end mill	
PH	不等分割非圓溝 Unequal Division Non-Round Land	
DT	定位鑽夾角60° Position Drill 60°	DC 定位鑽夾角90° Position Drill 90°
DS	定位鑽夾角80° Position Drill 80°	DR 定位鑽夾角120° Position Drill 120°
DCM	90°定位倒角銑刀 90° Position Drilling Chamfering End Mill	
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	RM 粗加工粗銑 Fine Pitch & Roughing
CM	中加工粗銑 Fine Pitch & Medium Roughing	CFM 複合材料精加工 For Composites Finishing
V	鳩尾槽 Dove-Tail Groove	
VV	雙刀鳩尾槽 Double-Edge Dove-Tail Groove	
CB	30°V型鳩尾槽刀 V Type Dove-Tail Groove 30°	CC 90°V型鳩尾槽刀 V Type Dove-Tail Groove 90°
CR	60°V型鳩尾槽刀 V Type Dove-Tail Groove 60°	CE 140°V型鳩尾槽刀 V Type Dove-Tail Groove 140°
RL	銲刀左螺旋 Reamer Left Screw	BS 沉頭銑刀 Countersunk End Mill

# 2 000 XXX - DIN

- 6  
6 刃數  
 Flute
- 7  
7 切削直徑  
 Cutting Diameter
- 8  
8 其他  
 Other
- 9  
9 歐洲規格  
 Specification For Europe Market

- 2 螺旋角 Helix Angle
- 3 材質 Grade
- 4 用途 Application

記號 Symbol	角度 Angle
A	0°
B	20°
C	25°
D	30°
E	35°
F	35°/38°
G	45°
H	55°
I	42°/45°
J	50°
K	38°/40°
L	39°/41°
M	120°
O	40°
P	38°
S	8°

記號 Symbol	材質 Grade
E	E300
G	G300
H	H300
M	M500
P	P500
W	W500
Y	Y500






記號 Symbol	說明 Explanation
M	平刀 Square
B	球頭 Ball Nose
U	內R角 Inner Radius
R	圓鼻刀 Corner Radius
C	倒角 Chamfer
I	外R角 Outer Radius
T	T型刀 T Type
A	鋁用刀 Aluminum

8 其他 Other

<b>R</b> □□	R角 Radius ex : R02=R0.2mm	特殊全長 (mm)	C:50	D:60	E1:75
<b>T</b> □□	錐度角度 Tapered ex : T005=0.5°	Special LF	H:100	M:150	R:200
<b>C</b> □□	倒角長度 Chamfer Length ex : C02=0.2mm	<b>CW</b>	切削寬度 Cutting Width		
<b>D</b> □□	特殊柄徑 Special Shank Diameter ex : D6=6mm	<b>X</b> □□□□	特殊角度 Special Angle ex : X40.45=鳩尾槽刀角40°，導角45° The angle of dove tail mill is 40°, chamfering is 45°.		
<b>L1</b>	特殊切刃長度 Special Flute Length				
<b>L2</b>	特殊可使用長度 Special Length				































## 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 Micro Grain Carbide	 AlTiN Coating	AlTiN 鋁鈦氮塗層 TiSiN 鈦矽塗層
	精度單位 Accuracy		材質 Grade
	含鈷量 Cobalt Content		螺旋角度 Helix Angle
	可被切削材硬度 Hardness Of Workpiece		










































































































# 加工圖標指南









































































































## Processing Icon Guide

圖標 Icon	說明 Explanation	圖標 Icon	說明 Explanation	圖標 Icon	說明 Explanation	圖標 Icon	說明 Explanation
	直角鑽孔 Right Angle Drilling		斜度坡走銑削 Angular Plunge Grinding		側面倒角 Side Chamfering		側銑 Side Milling
	圓孔倒角 Chamfer Of Rounding Hole		全開槽 Full Slot		背面倒角 Back Chamfering		斜面側銑 Incline Side Milling
	圓孔外R倒角 Round Hole Outside R Chamfering		R角開槽 R Corner Slotced		側銑倒角 Side Milling Chamfering		R角側銑 R Corner Side Milling
	定位加工 Position Processing		R溝槽 R Slot		背面外R倒角 Backside R Chamfering		倒角 Chamfer
	R角鑽孔 R Corner Drilling		內R開槽 Internal R Slotced		背面內R倒角 Backside Inner R Chamfering		外R倒角 Outer R Chamfer
	側面V槽 Side V Groove Processing		倒角開槽 Chamfer Slotced		內R角側銑 Internal R Corner Side Milling		曲面銑削 Surface Milling
	拋物線銑削 Parabolic Milling		T型槽銑 T Type		倒角側銑 Chamfer Side Milling		仿型銑削 Profile Milling
			雕刻銑削 Carving milling		內倒角 Internal Chamfer		

# 平刀鎢鋼端銑刀索引表





































































































For Index Square Type Carbide End Mill Series

產品形狀 Item Style	柄部直徑 (mm) Shank	規格圖標 Description	頁碼 Page
S-EMM 2000	Ø4	      	B14
S-EMML 2000L2	Ø4	      	B15 – B16
<b>NEW</b> S-OGM 2000	Ø4 Ø6	      	B17 – B18
<b>NEW</b> EMM 2000	Ø4 Ø10 Ø20 Ø6 Ø12 Ø8 Ø16	      	B19 – B20
<b>NEW</b> EMM2000L1	Ø4 Ø10 Ø6 Ø12 Ø8	      	B21 – B24
<b>NEW</b> EMM 3000	Ø6 Ø12 Ø8 Ø16 Ø10	      	B25
<b>NEW</b> EMM 4000	Ø4 Ø10 Ø20 Ø6 Ø12 Ø8 Ø16	      	B26 – B27
<b>NEW</b> EMM 4000L1	Ø4 Ø10 Ø20 Ø6 Ø12 Ø8 Ø16	      	B28 – B29
EMM 2000T00	Ø4 Ø10 Ø6 Ø12 Ø8	      	B30
<b>NEW</b> EPM 2000	Ø4 Ø10 Ø6 Ø12 Ø8	      	B31
<b>NEW</b> EPM 3000	Ø6 Ø8 Ø10	      	B32
<b>NEW</b> GMM 4000	Ø4 Ø10 Ø20 Ø6 Ø12 Ø25 Ø8 Ø16	      	B33 – B34
MU-EMM 4000	Ø4 Ø10 Ø20 Ø6 Ø12 Ø8 Ø16	      	B35 – B36
<b>NEW</b> MU-GMM 4000	Ø4 Ø10 Ø20 Ø6 Ø12 Ø8 Ø16	      	B37 – B40
<b>NEW</b> MU2-GPM 4000	Ø4 Ø10 Ø20 Ø6 Ø12 Ø8 Ø16	      	B41

	產品形狀 Item Style	柄部直徑 (mm) Shank	規格圖標 Description	頁碼 Page
<b>NEW</b>	MUH-GMM 4000 	Ø4 Ø10 Ø20 Ø6 Ø12 Ø8 Ø16	     <b>45</b> 	B42
<b>NEW</b>	MUH-IMM 4000 	Ø4 Ø10 Ø20 Ø6 Ø12 Ø8 Ø16	     <b>42</b> 	B43 – B44
<b>NEW</b>	MUH-IMM 4000 -DIN 	Ø4 Ø10 Ø20 Ø6 Ø12 Ø8 Ø16	     <b>42</b> 	B45
<b>NEW</b>	MUH-FMM 4000 	Ø4 Ø10 Ø20 Ø6 Ø12 Ø8 Ø16	     <b>35</b> 	B46 – B47
<b>NEW</b>	MUH-IGM 4000 	Ø4 Ø10 Ø6 Ø12 Ø8	     <b>42</b> 	B48
<b>NEW</b>	MUH-IEM 4000 	Ø4 Ø10 Ø6 Ø12 Ø8	     <b>42</b> 	B49
	MUH-IPM 3000L1 	Ø4 Ø10 Ø6 Ø12 Ø8 Ø16	     <b>42</b> 	B50
<b>NEW</b>	MUH-IPM 4000 	Ø4 Ø10 Ø20 Ø6 Ø12 Ø8 Ø16	     <b>42</b> 	B51 – B52
<b>NEW</b>	MUH-FPM 4000 	Ø4 Ø10 Ø20 Ø6 Ø12 Ø8 Ø16	     <b>35</b> 	B53
<b>NEW</b>	MMH-LMM 4000 	Ø4 Ø10 Ø6 Ø12 Ø8 Ø16	     <b>39</b> 	B54 – B55
<b>NEW</b>	MMH-LPM 4000 	Ø4 Ø10 Ø6 Ø12 Ø8 Ø16	     <b>39</b> 	B56
	LUH-IMM 4000 	Ø6 Ø8 Ø10	     <b>42</b> 	B57
<b>NEW</b>	GMM 6000 	Ø4 Ø10 Ø20 Ø6 Ø12 Ø25 Ø8 Ø16	     <b>45</b> 	B58
	FM-CMM 4000 	Ø6 Ø12 Ø8 Ø16 Ø10	     <b>25</b> 	B59
<b>NEW</b>	RM-CMM 4000 	Ø6 Ø12 Ø8 Ø16 Ø10	     <b>25</b> 	B59
	CFM-CWM 	Ø4 Ø10 Ø6 Ø12 Ø8	    	B60

# 球頭鎢鋼端銑刀索引表

For Index Ball Nose Type Carbide End Mill Series

產品形狀 Item Style	柄部直徑 (mm) Shank	規格圖標 Description	頁碼 Page
S-EMB 2000 	Ø4	      	B61
S-EMB 2000L2 	Ø4	      	B62
<b>NEW</b> S-EPB 2000 	Ø4	      	B63
<b>NEW</b> EMB 2000L2 	Ø4 Ø6 Ø8	      	B64 – B65
<b>NEW</b> EMB 2000 	Ø4 Ø10 Ø20 Ø6 Ø12 Ø8 Ø16	      	B66 – B67
<b>NEW</b> EEB 2000 	Ø4 Ø10 Ø20 Ø6 Ø12 Ø8	      	B68
<b>NEW</b> EPB 2000 	Ø4 Ø10 Ø20 Ø6 Ø12 Ø8 Ø16	      	B69
<b>NEW</b> EPB 4000 	Ø4 Ø10 Ø20 Ø6 Ø12 Ø8 Ø16	      	B70
<b>NEW</b> EWB 2000 	Ø4 Ø10 Ø6 Ø12 Ø8	    	B71
<b>NEW</b> EMB 4000 	Ø4 Ø10 Ø20 Ø6 Ø12 Ø8 Ø16	      	B72 – 73
<b>NEW</b> DMB 2000 	Ø4 Ø10 Ø6 Ø12 Ø8	      	B74
<b>NEW</b> DPB 2000 	Ø6 Ø10	      	B74
<b>NEW</b> DWB 2000L2 	Ø4	    	B75










## 酒桶鎢鋼端銑刀索引表

For Index Barrel Tungsten Carbide End Mill Series

產品形狀 Item Style	柄部直徑 (mm) Shank	規格圖標 Description	頁碼 Page
 PA-DPB 	Ø6 Ø12 Ø8 Ø10	      	B76 - B77






















## 內 R 角鎢鋼端銑刀索引表

For Index Inner R Type Carbide End Mill Series

產品形狀 Item Style	柄部直徑 (mm) Shank	規格圖標 Description	頁碼 Page
EPU 4000L1 	Ø4 Ø10 Ø6 Ø12 Ø8 Ø16	      	B78

## 圓鼻鎢鋼端銑刀索引表





































































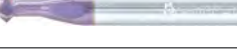













For Index Corner Radius Type Carbide End Mill Series

產品形狀 Item Style	柄部直徑 (mm) Shank	規格圖標 Description	頁碼 Page
DMR 2000R00L2 	Ø4 Ø10 Ø6 Ø12 Ø8	      	B79
 DMR 2000R00 	Ø4 Ø10 Ø6 Ø12 Ø8	      	B80 - B81
 DMR 4000R00 	Ø4 Ø10 Ø6 Ø12 Ø8	      	B82 - B84
 GPR 6000R00 	Ø6 Ø12 Ø8 Ø16 Ø10 Ø20	      	B85
 SUH-FYR 4000R00 	Ø4 Ø10 Ø6 Ø12 Ø8	       	B86
 PH-FMR 4000R00 	Ø4 Ø10 Ø6 Ø12 Ø8	       	B88
 PH-FER 4000R00 	Ø4 Ø10 Ø6 Ø12 Ø8	       	B89
 PH-FPR 4000R00 	Ø4 Ø10 Ø6 Ø12 Ø8	       	B90
 PH-FPC 4000C00 	Ø4 Ø10 Ø6 Ø12 Ø8	       	B91



# 倒角專用鎢鋼端銑刀索引表

For Index Chamfer Type Carbide End Mill Series

產品形狀 Item Style		柄部直徑 (mm) Shank	規格圖標 Description	頁碼 Page
<b>NEW</b>	DC-DMC 2000 	Ø3 Ø6 Ø12 Ø4 Ø8 Ø16 Ø5 Ø10 Ø20	      	B93
<b>NEW</b>	DT-DMC 2000 	Ø3 Ø6 Ø12 Ø4 Ø8 Ø16 Ø5 Ø10 Ø20	      	B93
<b>NEW</b>	DR-DMC 2000 	Ø3 Ø6 Ø12 Ø4 Ø8 Ø16 Ø5 Ø10 Ø20	      	B94
<b>NEW</b>	DC-DMM 2000 	Ø6 Ø12 Ø8 Ø16 Ø10 Ø20	      	B95 – B96
<b>NEW</b>	DR-DMM 2000 	Ø6 Ø12 Ø8 Ø16 Ø10 Ø20	      	B95 – B96
<b>NEW</b>	DC-DPC 2000 	Ø3 Ø6 Ø12 Ø4 Ø8 Ø16 Ø5 Ø10 Ø20	      	B97
<b>NEW</b>	DC-DWC 2000 	Ø3 Ø6 Ø16 Ø4 Ø8 Ø5 Ø10	    	B98
<b>NEW</b>	DR-DWC 2000 	Ø3 Ø6 Ø16 Ø4 Ø8 Ø5 Ø10	    	B98
<b>NEW</b>	DCM-EPC 3000 	Ø3 Ø8 Ø4 Ø10 Ø6 Ø12	      	B99
<b>NEW</b>	CC-AMC 	Ø6 Ø12 Ø8 Ø10	     	B100-B101
	CR-AMC 	Ø6 Ø12 Ø8 Ø10	     	B100-B101

## 外 R 倒角鎢鋼端銑刀索引表

For Index Outer R Chamfer Carbide End Mill Series

產品形狀 Item Style	柄部直徑 (mm) Shank	規格圖標 Description	頁碼 Page
 NEW AMI 2000	Ø4 Ø12 Ø6 Ø16 Ø8	MG M 500 AlTiN CO 12% HRC <58	B102



## T 型槽鎢鋼端銑刀索引表

For Index T-Type Slot Carbide End Mill Series

產品形狀 Item Style	柄部直徑 (mm) Shank	規格圖標 Description	頁碼 Page
 NEW AMT	Ø8 Ø12	MG M 500 AlTiN CO 12% HRC <58 0	B103

## 鋁用雕刻端銑刀索引表

For Index Engraving for Aluminum End Mill Series

產品形狀 Item Style	柄部直徑 (mm) Shank	規格圖標 Description	頁碼 Page
 NEW E180-AWA 1000L1	Ø3 Ø6 Ø12 Ø4 Ø8 Ø5 Ø10	MG M 500 AlTiN CO 12% W 500 0	B104-B105
 NEW E030-AWC 1000L1	Ø3 Ø6 Ø4 Ø5	MG M 500 AlTiN CO 12% W 500 0	B104-B105

# 鋁合金專用鎢鋼端銑刀索引表

For Index Aluminum Type Carbide End Mill Series

產品形狀 Item Style	柄部直徑 (mm) Shank	規格圖標 Description	頁碼 Page
GMA 2000 	Ø6 Ø8 Ø10	    	B106
<b>NEW</b> GMA 3000 	Ø4 Ø10 Ø20 Ø6 Ø12 Ø8 Ø16	    	B107-B108
<b>NEW</b> HMA 2000 	Ø4 Ø10 Ø6 Ø12 Ø8 Ø16	    	B109-B110
<b>NEW</b> HMA 3000 	Ø4 Ø10 Ø20 Ø6 Ø12 Ø8 Ø16	    	B111
<b>NEW</b> MU2-GMA 3000 	Ø4 Ø9 Ø16 Ø6 Ø10 Ø20 Ø8 Ø12	    	B112
<b>NEW</b> MU2-HMA 3000 	Ø4 Ø10 Ø6 Ø12 Ø8 Ø16	    	B113
<b>NEW</b> MU3-JMA 3000 	Ø4 Ø10 Ø20 Ø6 Ø12 Ø8 Ø16	    	B114

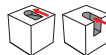
# 材質銑削推薦表 Recommend Cutting List

◎第一推薦 First recommend  
○第二推薦 Second recommend

塗層材質分類 Coating Material Classification	適用領域建議 Suit Filed Suggestion			P	M	K	X	N	H	S				
	高精度 High Precision	輕切削 Light Cutting	重切削 Roughing Cutting	一般鋼 Steel	合金鋼 Alloy Steel	碳鋼 Carbon Steel	不鏽鋼 Stainless Steel	鑄鐵 Cast Iron	銅 Copper	鎂合金 Aluminum	複合材質 Composites	高硬度材料 High Hardness Material	難切削材 Hard to Cut Material	
平刀塗層 Square End Mill Coating (PVD)	High Speed Processing ↑ ↓ Standard Processing	高速加工 (v)	MUH-IGM	◎	◎	○	◎	◎				○		
		MUH-IEM	◎	◎	◎	○	◎					○		
		MUH-IPM、MUH-FPM、 MMH-LPM	◎	◎	◎	○	◎						○	
		MUH-IMM、MUH-IMM-DIN、 MMH-LMM、LUH-IMM	◎	◎	○	◎	◎							
		MUH-GMM、MUH-FMM	◎	◎	○	◎	◎							
		EPM、OGM	◎	◎	◎	○	◎							○
		MU2-GPM	◎	◎	◎	○	◎							○
		MU-GMM、MU-EMM	◎	◎	○	◎	◎							
圓鼻刀塗層 Corner Radius Type Coating (PVD)	High Speed Processing ↑ ↓ Standard Processing	高速加工 (v)	SUH-FYR		○		◎							
		PH-FPR、PH-FPC	◎	◎	◎	○	◎							
		GPR、PH-FER、PH-FMR	◎	◎	◎	○	◎						○	
DMR	◎	◎	○	◎	◎									
球頭刀塗層 Ball Nose Type Coating (PVD)	High Speed Processing ↑ ↓ Standard Processing	高速加工 (v)	PA-DPB	○	○	◎	◎	○						
		EEB	◎	◎	◎	○	◎					○		
		EPB、DPB	○	○	◎	◎								
		EMB	◎	◎	◎	◎	◎						○	
		DMB	◎	◎	◎	○	◎							
		EWB、DWB						○	◎					○

◎第一推薦 First recommend  
 ○第二推薦 Second recommend

塗層材質分類 Coating Material Classification	適用領域建議 Suit Filed Suggestion			P	M	K	X	N	H	S			
	高精度 High Precision	輕切削 Light Cutting	重切削 Roughing Cutting	一般鋼 Steel	合金鋼 Alloy Steel	碳鋼 Carbon Steel	不銹鋼 Stainless Steel	鑄鐵 Cast Iron	銅 Copper	鈦合金 Aluminum	複合材料 Composites	高硬度材料 High Hardness Material	難切削材料 Hard to Cut Material
內R角刀塗層 Type Coating (PVD)	EPU			◎	◎	◎	○	◎	○				○
外R倒角刀塗層 Outer Radius Countersink Type Coating (PVD)	AMI			◎	◎	◎	◎	○	○				
T型槽刀塗層 T-Type Slot Coating (PVD)	AMT			◎	◎	◎	◎	○	○				
倒角刀塗層 Countersink Coating (PVD)	DC-DPC、DCM-EPC			◎	◎	◎	◎	◎					○
	DC-DMC、DR-DMC、 DT-DMC、DC-DMM			◎	◎	○	◎	◎					
	DC-DWC							○	◎				
	CC-AMC、CR-AMC			◎	◎	○	◎	◎					
粗、精 銑刀塗層 Roughing vs. Finishing Cutter Coating (PVD)	CFM-CWM							○	○	◎			
	FM-CMM、RM-CMM			◎	◎	○	◎	○					
鋁用銑刀 (無塗層) Aluminum Carbide End Mill Without Coating	MU3-JMA							○	◎				
	MU2-GMA、MU2-HMA							○	◎				
	GMA							○	◎				
	HMA							○	◎				
	E180-AWA E030-AWC							○	◎				



產品型號 Model No	在庫 Stock	切削直徑 DC	切刃長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
S-EMM2002	●	0.2	0.4	4	50	
S-EMM2003	●	0.3	0.6	4	50	
S-EMM2004	●	0.4	0.8	4	50	
S-EMM2005	●	0.5	1	4	50	
S-EMM2006	●	0.6	1.2	4	50	
S-EMM2007	●	0.7	1.4	4	50	
S-EMM2008	●	0.8	1.6	4	50	
S-EMM2009	●	0.9	1.8	4	50	

## S-EMM 2000系列切削參數

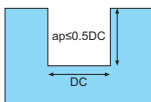
The Cutting Data For S-EMM 2000 Series

被加工材質 Material 鋼 Steel 不鏽鋼 Stainless steel 鑄鐵 Cast Iron

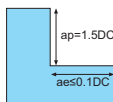
直徑 (mm) Shank	4	
轉速 n (min)	4800	
進給速度 (mm/min) Vf	開槽 Slotted	135
	側邊 Side	475

### 切削深度 Cutting depth

開槽 Slotted



側邊 Side

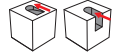
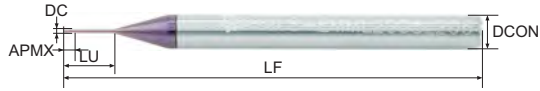


ap : 軸向切削深度 Axial depth of cutting

ae : 徑向切削深度 Radial depth of cutting

DC : 刃徑 Diameter of cutting

**S-EMML 2000L2**

 微小徑長頸短刃2刃鎢鋼立銑刀  
 Micro Diameter Long Neck Short Flute  
 2 Flutes Carbide End Mill


產品型號 Model No	在庫 Stock	切削直徑	切刃長度	柄部直徑	可使用長度	標準全長	價格 Price
		DC	APMX	DCON	LU	LF	
S-EMML2004L202		0.4	0.6	4	2	50	
S-EMML2004L204	●	0.4	0.6	4	4	50	
S-EMML2005L202	●	0.5	0.75	4	2	50	
S-EMML2005L204	●	0.5	0.75	4	4	50	
S-EMML2005L206	●	0.5	0.75	4	6	50	
S-EMML2006L202		0.6	0.9	4	2	50	
S-EMML2006L204		0.6	0.9	4	4	50	
S-EMML2006L206	●	0.6	0.9	4	6	50	
S-EMML2006L208	●	0.6	0.9	4	8	50	
S-EMML2008L203		0.8	1.2	4	3	50	
S-EMML2008L204		0.8	1.2	4	4	50	
S-EMML2008L206		0.8	1.2	4	6	50	
S-EMML2008L208	●	0.8	1.2	4	8	50	
S-EMML2008L210	●	0.8	1.2	4	10	50	
S-EMML2010L204	●	1	1.5	4	4	50	
S-EMML2010L206	●	1	1.5	4	6	50	
S-EMML2010L208	●	1	1.5	4	8	50	
S-EMML2010L210		1	1.5	4	10	50	
S-EMML2010L212	●	1	1.5	4	12	50	
S-EMML2015L204		1.5	2.25	4	4	50	
S-EMML2015L206		1.5	2.25	4	6	50	
S-EMML2015L208		1.5	2.25	4	8	50	
S-EMML2015L210		1.5	2.25	4	10	50	
S-EMML2015L212	●	1.5	2.25	4	12	50	
S-EMML2020L206		2	3	4	6	50	
S-EMML2020L208		2	3	4	8	50	
S-EMML2020L210	●	2	3	4	10	50	
S-EMML2020L212	●	2	3	4	12	50	
S-EMML2020L214		2	3	4	14	50	
S-EMML2020L216	●	2	3	4	16	50	
S-EMML2030L208		3	4.5	4	8	50	
S-EMML2030L210	●	3	4.5	4	10	50	
S-EMML2030L212		3	4.5	4	12	50	

※ 請接下頁。 ※ Continued on next page.



產品型號 Model No	在庫 Stock	切削直徑	切刃長度	柄部直徑	可使用長度	標準全長	價格 Price
		DC	APMX	DCON	LU	LF	
S-EMML2030L214		3	4.5	4	14	50	
S-EMML2030L216	●	3	4.5	4	16	50	
S-EMML2030L220	●	3	4.5	4	20	50	

## S-EMML 20002系列切削參數

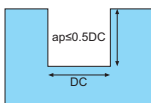
The Cutting Data For S-EMML 2000L2 Series

被加工材質 Material 鋼 Steel 不鏽鋼 Stainless steel 鑄鐵 Cast Iron

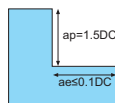
直徑 (mm) Shank	4	
轉速 n (min)	4800	
進給速度 (mm/min) Vf	開槽 Slotted	135
	側邊 Side	475

### 切削深度 Cutting depth

開槽 Slotted



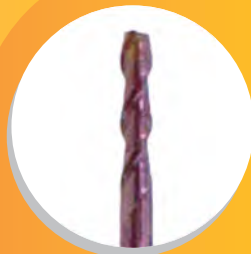
側邊 Side



ap : 軸向切削深度 Axial depth of cutting  
ae : 徑向切削深度 Radial depth of cutting  
DC : 刃徑 Diameter of cutting

S-OGM2000 series

# 微小徑 2刃鎢鋼立銑刀



全新OGM材質 高耐磨 高韌性  
New OGM series With high abrasion resistance



## Micro Diameter 2 Flute Carbide End Mill

適用於專業醫療設備、電子、化學  
及工業等精密細小零件之製造加工

Apply on manufacturing and processing of  
precision small parts such as professional  
medical equipment, electronics, chemicals  
and industry.

### 切削參數 The Cutting Data

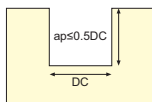
加工材質 Material



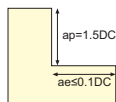
直徑 (mm) Shank		4	6
轉速 n (min)		4800	3100
進給速度 (mm/min) Vf	開槽 Slotted	135	120
	側邊 Side	475	375

### 切削深度 Cutting depth

開槽 Slotted



側邊 Side



ap: 軸向切削深度 Axial depth of cutting  
ae: 徑向切削深度 Radial depth of cutting  
DC: 刃徑 Diameter of cutting

- ✓ 全新鎢鋼刀體，獨特刃體結構設計，有效抑制加工震動，提升銑刀加工壽命。  
Adopts a full carbide cutter body unique edge structure design, to effectively suppress the processing vibration.
- ✓ 採用超細粒子硬質合金AlTiN塗層，增加刀具耐磨耗性，加強排屑效率。  
Ultra-fine particle cemented carbide AlTiN coating for increased tool wearability and improve the chip removal.
- ✓ 微小徑設計有利於狹小孔徑空間工件加工需求，提供精確的加工精準度和良好表面光潔度。  
Micro-diameter design is beneficial to the processing requirements of cutting, specially in processing in small space, it provides precise accuracy of machining and excellent surface finish.

可加工高硬度HRC50° ~ 60°  
High ductility material

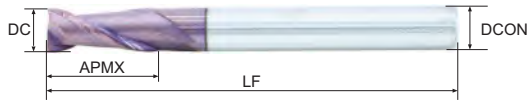
螺旋角採40°設計  
Helix angle 40° design

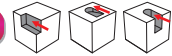
S-OGM 2000

微小徑 2 刃鑄鋼立銑刀  
Micro Diameter 2 Flute Carbide End Mill



	產品型號 Model No	在庫 Stock	切削直徑		柄部直徑 DCON	標準全長		價格 Price
			DC	APMX		LF		
NEW	S-OGM2003	●	0.3	1.2	4	50		
NEW	S-OGM2004		0.4	1.6	4	50		
NEW	S-OGM2005		0.5	2	4	50		
NEW	S-OGM2006		0.6	2.4	4	50		
NEW	S-OGM2007		0.7	2.8	4	50		
NEW	S-OGM2008		0.8	3.2	4	50		
NEW	S-OGM2009		0.9	3.6	4	50		
NEW	S-OGM2010		1	4	4	50		
NEW	S-OGM2011		1.1	4.4	4	50		
NEW	S-OGM2012		1.2	4.8	4	50		
NEW	S-OGM2013		1.3	5.2	4	50		
NEW	S-OGM2014		1.4	5.6	4	50		
NEW	S-OGM2015		1.5	6	4	50		
NEW	S-OGM2016		1.6	6.4	4	50		
NEW	S-OGM2017		1.7	6.8	4	50		
NEW	S-OGM2018		1.8	7.2	4	50		
NEW	S-OGM2019		1.9	7.6	4	50		
NEW	S-OGM2020		2	8	4	50		
NEW	S-OGM2021		2.1	8.4	4	50		
NEW	S-OGM2022		2.2	8.8	4	50		
NEW	S-OGM2023		2.3	9.2	4	50		
NEW	S-OGM2024		2.4	9.6	4	50		
NEW	S-OGM2025	●	2.5	10	4	50		
NEW	S-OGM2026		2.6	10.4	4	50		
NEW	S-OGM2027		2.7	10.8	4	50		
NEW	S-OGM2028		2.8	11.2	4	50		
NEW	S-OGM2029		2.9	11.6	4	50		
NEW	S-OGM2030D6		3	12	6	50		

**EMM 2000** 2 刃鎢鋼立銼刀  
2 Flutes Carbide End Mill


**新規格上市**  
New Specification Arrival


	產品型號 Model No	在庫 Stock	切削直徑		柄部直徑		標準全長 LF	價格 Price
			DC	APMX	DCON	LF		
	EMM2010	●	1	2.5	4	50		
<b>NEW</b>	EMM2010D6	●	1	2.5	6	50		
	EMM2015	●	1.5	3.75	4	50		
	EMM2020	●	2	5	4	50		
	EMM2020D6	●	2	5	6	50		
	EMM2025	●	2.5	6.25	4	50		
	EMM2025D6	●	2.5	6.25	6	50		
	EMM2030	●	3	7.5	4	50		
	EMM2030D6	●	3	7.5	6	50		
<b>NEW</b>	EMM2030E1	●	3	7.5	4	75		
	EMM2035	●	3.5	8.75	4	50		
	EMM2035D6	●	3.5	8.75	6	50		
	EMM2036	●	3.6	9	4	50		
	EMM2038	●	3.8	9.5	4	50		
	EMM2040	●	4	10	4	50		
	EMM2040D6	●	4	10	6	50		
<b>NEW</b>	EMM2040E1	●	4	10	4	75		
	EMM2040H	●	4	10	4	100		
	EMM2045	●	4.5	11.25	6	50		
	EMM2047	●	4.7	11.75	6	50		
	EMM2050	●	5	12.5	6	50		
<b>NEW</b>	EMM2050D5	●	5	12.5	5	50		
	EMM2050E1	●	5	12.5	6	75		
	EMM2050H	●	5	12.5	6	100		
	EMM2055	●	5.5	13.75	6	50		
	EMM2057	●	5.7	14.25	6	50		
	EMM2060	●	6	15	6	50		
	EMM2060E1	●	6	15	6	75		
	EMM2060H	●	6	15	6	100		
	EMM2064	●	6.4	16	8	60		
	EMM2068	●	6.8	17	8	60		
	EMM2070	●	7	17.5	8	60		
	EMM2071	●	7.1	17.75	8	60		

※ 請接下頁。 ※ Continued on next page.

產品型號 Model No	在庫 Stock	切削直徑	切刃長度	柄部直徑	標準全長	價格 Price
		DC	APMX	DCON	LF	
EMM2073	●	7.3	18.25	8	60	
EMM2075	●	7.5	18.75	8	60	
EMM2080	●	8	20	8	60	
EMM2080E1	●	8	20	8	75	
EMM2080H	●	8	20	8	100	
EMM2080M	●	8	20	8	150	
EMM2090	●	9	22.5	10	75	
EMM2100	●	10	25	10	75	
EMM2100H	●	10	25	10	100	
EMM2100M	●	10	25	10	150	
EMM2110	●	11	27.5	12	75	
EMM2120	●	12	30	12	75	
EMM2120H	●	12	30	12	100	
EMM2120M	●	12	30	12	150	
EMM2140	●	14	35	16	100	
EMM2160	●	16	48	16	100	
EMM2160M	●	16	48	16	150	
EMM2160R	●	16	48	16	200	
EMM2200	●	20	50	20	100	
EMM2200M	●	20	50	20	150	
EMM2200R	●	20	50	20	200	

## EMM 2000系列切削參數

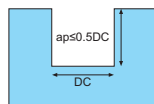
The Cutting Data For EMM 2000 Series

被加工材質 Material 鋼 Steel 不鏽鋼 Stainless steel 鑄鐵 Cast Iron

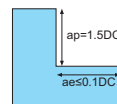
直徑 (mm) Shank	3	4	6	8	10	12	16	20
轉速 n (min)	4800	4800	3100	2300	1900	1600	1200	950
進給速度 Vf (mm/min)	開槽 Slotted	135	135	120	120	120	135	135
	側邊 Side	475	475	325	375	375	275	165

### 切削深度 Cutting depth

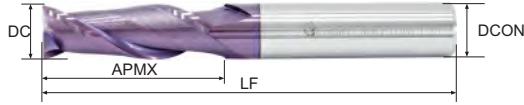
開槽 Slotted



側邊 Side



ap : 軸向切削深度 Axial depth of cutting  
ae : 徑向切削深度 Radial depth of cutting  
DC : 刃徑 Diameter of cutting

**EMM 2000L1** 2刃3倍刃長鎢鋼立銑刀  
2 Flutes With Triple Flute Length Carbide End Mill


**新規格上市**  
New Specification Arrival


產品型號 Model No	在庫 Stock	切削直徑		柄部直徑		標準全長 LF	價格 Price
		DC	APMX	DCON	LF		
EMM2010L103	●	1	3	4	50		
EMM2011L1033	●	1.1	3.3	4	50		
EMM2012L1036	●	1.2	3.6	4	50		
EMM2013L1039	●	1.3	3.9	4	50		
EMM2014L1042	●	1.4	4.2	4	50		
EMM2015L1045	●	1.5	4.5	4	50		
EMM2016L1048	●	1.6	4.8	4	50		
EMM2017L1051	●	1.7	5.1	4	50		
EMM2018L1054	●	1.8	5.4	4	50		
EMM2019L1057	●	1.9	5.7	4	50		
EMM2020L106	●	2	6	4	50		
EMM2020L106D6	●	2	6	6	50		
EMM2021L1063	●	2.1	6.3	4	50		
EMM2022L1066	●	2.2	6.6	4	50		
EMM2023L1069	●	2.3	6.9	4	50		
EMM2024L1072	●	2.4	7.2	4	50		
EMM2025L1075	●	2.5	7.5	4	50		
EMM2026L1078	●	2.6	7.8	4	50		
EMM2027L1081	●	2.7	8.1	4	50		
EMM2028L1084	●	2.8	8.4	4	50		
EMM2029L1087	●	2.9	8.7	4	50		
EMM2030L109	●	3	9	4	50		
EMM2030L109D3	●	3	9	3	50		
EMM2030L109D6	●	3	9	6	50		
EMM2031L1093	●	3.1	9.3	4	50		
EMM2032L1096	●	3.2	9.6	4	50		
EMM2033L1099	●	3.3	9.9	4	50		
EMM2034L1102	●	3.4	10.2	4	50		
EMM2035L1105	●	3.5	10.5	4	50		
EMM2036L1108	●	3.6	10.8	4	50		
EMM2037L1111	●	3.7	11.1	4	50		
EMM2038L1114	●	3.8	11.4	4	50		
EMM2039L1117	●	3.9	11.7	4	50		

**NEW**

※ 請接下頁。 ※ Continued on next page.

產品型號 Model No	在庫 Stock	切削直徑	切刃長度	柄部直徑	標準全長	價格 Price
		DC	APMX	DCON	LF	
EMM2040L112	●	4	12	4	50	
EMM2040L112D6	●	4	12	6	50	
EMM2041L1123	●	4.1	12.3	6	50	
EMM2042L1126	●	4.2	12.6	6	50	
EMM2043L1129	●	4.3	12.9	6	50	
EMM2044L1132	●	4.4	13.2	6	50	
EMM2045L1135	●	4.5	13.5	6	50	
EMM2046L1138	●	4.6	13.8	6	50	
EMM2047L1141	●	4.7	14.1	6	50	
EMM2048L1144	●	4.8	14.4	6	50	
EMM2049L1147	●	4.9	14.7	6	50	
EMM2050L115	●	5	15	6	50	
EMM2051L1153	●	5.1	15.3	6	50	
EMM2052L1156	●	5.2	15.6	6	50	
EMM2053L1159	●	5.3	15.9	6	50	
EMM2054L1162	●	5.4	16.2	6	50	
EMM2055L1165	●	5.5	16.5	6	50	
EMM2056L1168	●	5.6	16.8	6	50	
EMM2057L1171	●	5.7	17.1	6	50	
EMM2058L1174	●	5.8	17.4	6	50	
EMM2059L1177	●	5.9	17.7	6	50	
EMM2060L118	●	6	18	6	50	
EMM2061L1183	●	6.1	18.3	8	60	
EMM2062L1186	●	6.2	18.6	8	60	
EMM2063L1189	●	6.3	18.9	8	60	
EMM2064L1192	●	6.4	19.2	8	60	
EMM2065L1195	●	6.5	19.5	8	60	
EMM2066L1198	●	6.6	19.8	8	60	
EMM2067L1201	●	6.7	20.1	8	60	
EMM2068L1204	●	6.8	20.4	8	60	
EMM2069L1207	●	6.9	20.7	8	60	
EMM2070L121	●	7	21	8	60	
EMM2071L1213	●	7.1	21.3	8	60	
EMM2072L1216	●	7.2	21.6	8	60	
EMM2073L1219	●	7.3	21.9	8	60	
EMM2074L1222	●	7.4	22.2	8	60	
EMM2075L1225	●	7.5	22.5	8	60	
EMM2076L1228	●	7.6	22.8	8	60	
EMM2077L1231	●	7.7	23.1	8	60	
EMM2078L1234	●	7.8	23.4	8	60	
EMM2079L1237	●	7.9	23.7	8	60	
EMM2080L124	●	8	24	8	60	

※ 請接下頁。 ※ Continued on next page.



產品型號 Model No	在庫 Stock	切削直徑	切刃長度	柄部直徑	標準全長	價格 Price
		DC	APMX	DCON	LF	
EMM2080L124H	●	8	24	8	100	
EMM2080L140M	●	8	40	8	150	
EMM2081L1243	●	8.1	24.3	10	75	
EMM2082L1246	●	8.2	24.6	10	75	
EMM2083L1249	●	8.3	24.9	10	75	
EMM2084L1252	●	8.4	25.2	10	75	
EMM2085L1255		8.5	25.5	10	75	
EMM2086L1258	●	8.6	25.8	10	75	
EMM2087L1261	●	8.7	26.1	10	75	
EMM2088L1264	●	8.8	26.4	10	75	
EMM2089L1267	●	8.9	26.7	10	75	
EMM2090L127		9	27	10	75	
EMM2091L1273	●	9.1	27.3	10	75	
EMM2092L1276	●	9.2	27.6	10	75	
EMM2093L1279	●	9.3	27.9	10	75	
EMM2094L1282		9.4	28.2	10	75	
EMM2095L1285	●	9.5	28.5	10	75	
EMM2096L1288	●	9.6	28.8	10	75	
EMM2097L1291	●	9.7	29.1	10	75	
EMM2098L1294	●	9.8	29.4	10	75	
EMM2099L1297	●	9.9	29.7	10	75	
EMM2100L130	●	10	30	10	75	
EMM2101L1303		10.1	30.3	12	75	
EMM2102L1306	●	10.2	30.6	12	75	
EMM2103L1309	●	10.3	30.9	12	75	
EMM2104L1312	●	10.4	31.2	12	75	
EMM2105L1315		10.5	31.5	12	75	
EMM2106L1318	●	10.6	31.8	12	75	
EMM2107L1321	●	10.7	32.1	12	75	
EMM2108L1324	●	10.8	32.4	12	75	
EMM2109L1327	●	10.9	32.7	12	75	
EMM2110L133		11	33	12	75	
EMM2111L1333	●	11.1	33.3	12	75	
EMM2112L1336	●	11.2	33.6	12	75	
EMM2113L1339	●	11.3	33.9	12	75	
EMM2114L1342	●	11.4	34.2	12	75	
EMM2115L1345	●	11.5	34.5	12	75	
EMM2116L1348	●	11.6	34.8	12	75	
EMM2117L1351	●	11.7	35.1	12	75	
EMM2118L1354	●	11.8	35.4	12	75	
EMM2119L1357	●	11.9	35.7	12	75	
EMM2120L136	●	12	36	12	75	



## EMM 2000L1 系列切削參數

The Cutting Data For EMM 2000L1 Series

被加工材質  
Material

鋼

Steel

不鏽鋼

Stainless steel

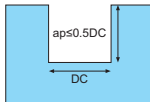
鑄鐵

Cast Iron

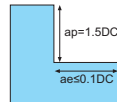
直徑 (mm) Shank		4	6	8	10	12	16	20
轉速 n (min)		4800	3100	2300	1900	1600	1200	950
進給速度 (mm/min) Vf	開槽 Slotted	135	120	120	120	120	135	135
	側邊 Side	475	325	375	375	275	200	165

### 切削深度 Cutting depth

開槽 Slotted



側邊 Side

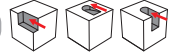


ap : 軸向切削深度 Axial depth of cutting

ae : 徑向切削深度 Radial depth of cutting

DC : 刃徑 Diameter of cutting

**EMM 3000** 3刃鎢鋼立銑刀  
3 Flutes Carbide End Mill


**新規格上市**  
New Specification Arrival


	產品型號 Model No	在庫 Stock	切削直徑		柄部直徑	標準全長	價格 Price
			DC	APMX			
<b>NEW</b>	EMM3040	●	4	10	4	50	
	EMM3050	●	5	12.5	6	50	
<b>NEW</b>	EMM3058	●	5.8	14.5	6	50	
	EMM3060	●	6	15	6	50	
<b>NEW</b>	EMM3078	●	7.8	19.5	8	60	
	EMM3080	●	8	20	8	60	
	EMM3100	●	10	25	10	75	
	EMM3100L130	●	10	30	10	75	
<b>NEW</b>	EMM3120L136	●	12	36	12	75	
<b>NEW</b>	EMM3120L157H		12	57	12	100	
<b>NEW</b>	EMM3160	●	16	48	16	100	

**EMM 3000系列切削參數**

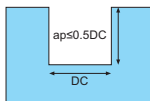
The Cutting Data For EMM 3000 Series

 被加工材質 Material
 鋼 Steel
不鏽鋼 Stainless steel
鑄鐵 Cast Iron

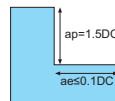
直徑 (mm) Shank		5	5.5	6	8	10
轉速 n (min)		3800	3500	3100	2300	1900
進給速度 (mm/min) Vf	開槽 Slotted	180	180	180	180	180
	側邊 Side	500	500	500	580	580

**切削深度 Cutting depth**

開槽 Slotted



側邊 Side

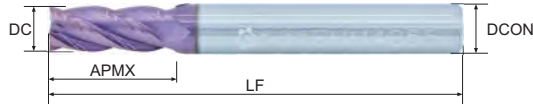


ap : 軸向切削深度 Axial depth of cutting

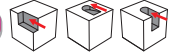
ae : 徑向切削深度 Radial depth of cutting


DC : 刃徑 Diameter of cutting

EMM 4000 4 刃鎢鋼立銑刀  
4 Flutes Carbide End Mill



 新規格上市  
New Specification Arrival



產品型號 Model No	在庫 Stock	切削直徑		柄部直徑		標準全長 LF	價格 Price
		DC	APMX	DCON	LF		
EMM4010	●	1	2.5	4	50		
EMM4010D6	●	1	2.5	6	50		
EMM4015	●	1.5	3.75	4	50		
EMM4015D6	●	1.5	3.75	6	50		
EMM4020	●	2	5	4	50		
EMM4020D6	●	2	5	6	50		
EMM4025	●	2.5	6.25	4	50		
EMM4025D6	●	2.5	6.25	6	50		
EMM4030	●	3	7.5	4	50		
EMM4030D6	●	3	7.5	6	50		
EMM4030E1	●	3	7.5	4	75		
EMM4035	●	3.5	8.75	4	50		
EMM4035D6	●	3.5	8.75	6	50		
EMM4040	●	4	10	4	50		
EMM4040D6	●	4	10	6	50		
EMM4040E1	●	4	10	4	75		
EMM4040H	●	4	10	4	100		
EMM4045	●	4.5	11.25	6	50		
EMM4050	●	5	12.5	6	50		
EMM4050E1	●	5	12.5	6	75		
EMM4050H	●	5	12.5	6	100		
EMM4055	●	5.5	13.75	6	50		
EMM4060	●	6	15	6	50		
EMM4060E1	●	6	15	6	75		
EMM4060H	●	6	15	6	100		
 EMM4060M	●	6	15	6	150		
EMM4065	●	6.5	16.25	8	60		
EMM4070	●	7	17.5	8	60		
EMM4080	●	8	20	8	60		
EMM4080E1	●	8	20	8	75		
EMM4080H	●	8	20	8	100		
EMM4080M	●	8	20	8	150		
EMM4100	●	10	25	10	75		

※ 請接下頁。 ※ Continued on next page.

產品型號 Model No	在庫 Stock	切削直徑	切刃長度	柄部直徑	標準全長	價格 Price
		DC	APMX	DCON	LF	
EMM4100H	●	10	25	10	100	
EMM4100M	●	10	25	10	150	
EMM4120	●	12	30	12	75	
EMM4120H	●	12	30	12	100	
EMM4120M	●	12	30	12	150	
EMM4140	●	14	35	16	100	
EMM4160	●	16	48	16	100	
EMM4160M	●	16	48	16	150	
EMM4160R	●	16	48	16	200	
EMM4180M	●	18	45	20	150	
EMM4200	●	20	50	20	100	
EMM4200M	●	20	50	20	150	
EMM4200R	●	20	50	20	200	

NEW

## EMM 4000系列切削參數

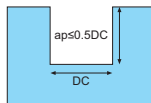
The Cutting Data For EMM 4000 Series

 被加工材質 Material
 鋼 Steel
不鏽鋼 Stainless steel
鑄鐵 Cast Iron

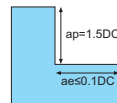
直徑 (mm) Shank	4	6	8	10	12	16	18	20	
轉速 n (min)	4800	3100	2300	1900	1600	1200	1240	1060	
進給速度 Vf (mm/min)	開槽 Slotted	200	180	180	180	180	200	225	300
	側邊 Side	700	500	580	580	410	300	450	240

### 切削深度 Cutting depth

開槽 Slotted



側邊 Side



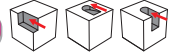
ap : 軸向切削深度 Axial depth of cutting  
 ae : 徑向切削深度 Radial depth of cutting  
 DC : 刃徑 Diameter of cutting

**EMM 4000L1**

長刃型 4 刃鎢鋼立銼刀  
Long Flute 4 Flutes Carbide End Mill



 **新規格上市**  
New Specification Arrival



	產品型號 Model No	在庫 Stock	切削直徑		柄部直徑		標準全長 LF	價格 Price
			DC	APMX	DCON	LF		
NEW	EMM4010L103		1	3	4	50		
NEW	EMM4015L1045		1.5	4.5	4	50		
NEW	EMM4020L106	●	2	6	4	50		
NEW	EMM4025L1075	●	2.5	7.5	4	50		
NEW	EMM4025L1075D6	●	2.5	7.5	6	50		
NEW	EMM4030L109	●	3	9	4	50		
	EMM4030L109D6	●	3	9	6	50		
NEW	EMM4030L113D6		3	13	6	50		
NEW	EMM4032L1064D6		3.2	6.4	6	50		
NEW	EMM4040L112	●	4	12	4	50		
NEW	EMM4040L114D6		4	14	6	50		
	EMM4040L120E1	●	4	20	4	75		
NEW	EMM4050L115	●	5	15	6	50		
	EMM4050L125E1	●	5	25	6	75		
NEW	EMM4060L118	●	6	18	6	50		
	EMM4060L125E1	●	6	25	6	75		
NEW	EMM4060L130E1	●	6	30	6	75		
	EMM4060L130H	●	6	30	6	100		
NEW	EMM4080L124	●	8	24	8	60		
	EMM4080L130E1	●	8	30	8	75		
	EMM4080L135H	●	8	35	8	100		
	EMM4080L140M	●	8	40	8	150		
	EMM4100L130	●	10	30	10	75		
	EMM4100L140H	●	10	40	10	100		
	EMM4100L145H	●	10	45	10	100		
	EMM4100L150M	●	10	50	10	150		
	EMM4120L136	●	12	36	12	75		
	EMM4120L145H	●	12	45	12	100		
	EMM4120L150M	●	12	50	12	150		
NEW	EMM4120L155H	●	12	55	12	100		
NEW	EMM4130L139D16	●	13	39	16	100		
	EMM4140L142	●	14	42	16	100		
NEW	EMM4140L142D14		14	42	14	100		

※ 請接下頁。 ※ Continued on next page.

產品型號 Model No	在庫 Stock	切削直徑	切刃長度	柄部直徑	標準全長	價格 Price
		DC	APMX	DCON	LF	
EMM4160L170M	●	16	70	16	150	
EMM4200L180M	●	20	80	20	150	

## EMM 4000L1 系列切削參數

The Cutting Data For EMM 4000L1 Series

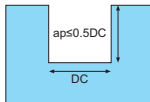
被加工材質 Material

鋼 Steel
不鏽鋼 Stainless steel
鑄鐵 Cast Iron

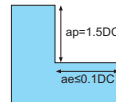
直徑 (mm) Shank	4	6	8	10	12	16	18	20	
轉速 n (min)	4800	3100	2300	1900	1600	1200	1240	1060	
進給速度 (mm/min) Vf	開槽 Slotted	200	180	180	180	180	200	225	300
	側邊 Side	700	500	580	580	410	300	450	240

切削深度 Cutting depth

開槽 Slotted



側邊 Side



ap : 軸向切削深度 Axial depth of cutting

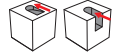
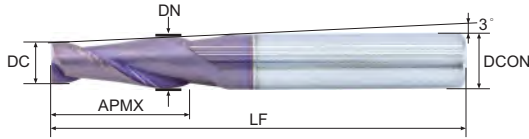
ae : 徑向切削深度 Radial depth of cutting

DC : 刃徑 Diameter of cutting



EMM 2000T00

斜度 2 刃鎢鋼立銑刀  
2 Flutes Tapered Carbided End Mill



產品型號 Model No	在庫 Stock	切削直徑 DC	切刃長度 APMX	柄部直徑 DCON	標準全長 LF	頸徑 DN	價格 Price
EMM2025T030		2.5	8	4	50	3.34	
EMM2040T030D6	●	4	15	6	50	5.57	
EMM2060T030D8	●	6	18	8	60	7.59	
EMM2060T030D10	●	6	18	10	75	8.1	
EMM2080T030	●	8	25	8	75	10.62	

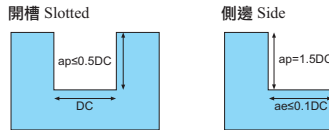
EMM 2000T00 系列切削參數

The Cutting Data For EMM 2000T00 Series

被加工材質 Material  
鋼 Steel
不鏽鋼 Stainless steel
鑄鐵 Cast Iron

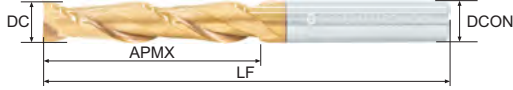
直徑 (mm) Shank	4	6	8	10	12	16
轉速 n (min)	4800	3100	2300	1900	1600	1200
進給速度 V <sub>f</sub> (mm/min)	開槽 Slotted	135	120	120	120	120
	側邊 Side	475	325	375	375	275

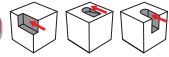
切削深度 Cutting depth



ap : 軸向切削深度 Axial depth of cutting  
 ae : 徑向切削深度 Radial depth of cutting  
 DC : 刃徑 Diameter of cutting

**EPM 2000**

 2刃3倍刃長鎢鋼立銑刀  
 2 Flutes With Triple Flute Length Carbide End Mill


**新規格上市**  
New Specification Arrival


產品型號 Model No	在庫 Stock	切削直徑	切刃長度	柄部直徑	標準全長	價格 Price
		DC	APMX	DCON	LF	
EPM2010L103		1	3	4	50	
EPM2020L106		2	6	4	50	
EPM2020L106D6		2	6	6	50	
EPM2030L109		3	9	4	50	
EPM2030L109D6	●	3	9	6	50	
EPM2040	●	4	10	4	50	
EPM2040L112		4	12	4	50	
EPM2040L112D6		4	12	6	50	
EPM2050L115		5	15	6	50	
EPM2060E1	●	6	15	6	75	
EPM2060L118		6	18	6	50	
EPM2070L121		7	21	8	60	
EPM2080L124	●	8	24	8	60	
EPM2080L124H		8	24	8	100	
EPM2090L127		9	27	10	75	
EPM2100L130		10	30	10	75	
EPM2100H	●	10	25	10	100	
EPM2100M	●	10	25	10	150	
EPM2110L133		11	33	12	75	
EPM2120L136		12	36	12	75	
EPM2120L150H	●	12	50	12	100	
EPM2120L150M	●	12	50	12	150	

**NEW**
**EPM 2000系列切削參數**

The Cutting Data For EPM 2000 Series

 被加工材質  
Material

 合金鋼  
Alloy Steel

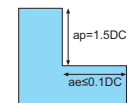
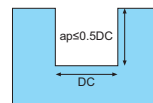
 碳鋼  
Carbon Steel

直徑 (mm) Shank	4	6	8	10	12	16	20
轉速 n (min)	4800	3100	2300	1900	1600	1200	950
進給速度 Vf (mm/min)	開槽 Slotted	135	120	120	120	135	135
	側邊 Side	475	325	375	375	275	165

**切削深度 Cutting depth**

開槽 Slotted

側邊 Side



ap : 軸向切削深度 Axial depth of cutting

ae : 徑向切削深度 Radial depth of cutting

DC : 刃徑 Diameter of cutting

# EPM3000 series

## 3 刃鎢鋼立銑刀

### 3 Flutes Carbide End Mill

螺旋角35°設計 Helix angle 35° design

全新鎢鋼刀體，獨特刃體結構設計，降低加工震動，提升刀具使用壽命，加強排屑效率。

The newest carbide end mills, unique blade structure design, reduce the vibration generated during processing, improve tool life, enhance the effect of remove chip.

**可側銑 可插槽**  
Can be side milling and slot



合金鋼  
Alloy Steel

碳鋼  
Carbon Steel

專用特殊塗層  
Special Coating for



側銑  
Side Milling



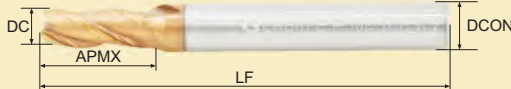
斜度坡走銑削  
Angular Plunge Grinding



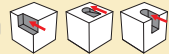
全開槽  
Full Slot

EPM 3000

3 刃鎢鋼立銑刀  
3 Flutes Carbide End Mill



新品上市  
New Arrival



	產品型號 Model No	在庫 Stock	切削直徑	切刃長度	柄部直徑	標準全長	價格 Price
			DC	APMX	DCON	LF	
NEW	EPM3050	●	5	12.5	6	50	
NEW	EPM3050L115		5	15	6	50	
NEW	EPM3055L1165		5.5	16.5	6	50	
NEW	EPM3060		6	15	6	50	
NEW	EPM3070L121	●	7	21	8	60	
NEW	EPM3080		8	20	8	60	
NEW	EPM3100		10	25	10	75	
NEW	EPM3100L130		10	30	10	75	

### EPM 3000系列切削參數

The Cutting Data For EPM 3000 Series

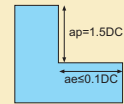
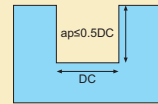
被加工材質 Material

合金鋼 Alloy Steel 碳鋼 Carbon Steel

### 切削深度 Cutting depth

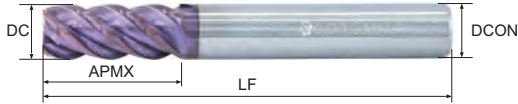
開槽 Slotted

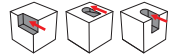
側邊 Side



ap: 軸向切削深度 Axial depth of cutting  
ar: 徑向切削深度 Radial depth of cutting  
DC: 刃徑 Diameter of cutting

直徑 (mm) Shank	5	5.5	6	8	10
轉速 n (min)	3800	3500	3100	2300	1900
進給速度 (mm/min) Vf	開槽 Slotted	180	180	180	180
	側邊 Side	700	500	600	580

**GMM 4000** 4刃鎢鋼立銑刀  
4 Flutes Carbided End Mill


**新規格上市**  
New Specification Arrival


產品型號 Model No	在庫 Stock	切削直徑 DC	切削長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
GMM4010	●	1	2.5	4	50	
GMM4010L103	●	1	3	4	50	
GMM4015	●	1.5	3.75	4	50	
<b>NEW</b> GMM4015L103	●	1.5	3	4	50	
GMM4015L104	●	1.5	4	4	50	
GMM4020	●	2	5	4	50	
GMM4020L106	●	2	6	4	50	
GMM4025	●	2.5	6.25	4	50	
<b>NEW</b> GMM4025L106	●	2.5	6	4	50	
GMM4025L107	●	2.5	7	4	50	
GMM4025L1075	●	2.5	7.5	4	50	
GMM4030	●	3	7.5	4	50	
<b>NEW</b> GMM4030L108	●	3	8	4	50	
GMM4030L109	●	3	9	4	50	
GMM4030L112D6	●	3	12	6	50	
GMM4035	●	3.5	8.75	4	50	
<b>NEW</b> GMM4035L1105	●	3.5	10.5	4	50	
GMM4040	●	4	10	4	50	
GMM4040L112	●	4	12	4	50	
GMM4045	●	4.5	11.25	6	50	
GMM4050	●	5	12.5	6	50	
GMM4050L115	●	5	15	6	50	
GMM4055	●	5.5	13.75	6	50	
GMM4060	●	6	15	6	50	
GMM4065	●	6.5	16.25	8	60	
GMM4070	●	7	17.5	8	60	
GMM4075	●	7.5	18.75	8	60	
GMM4080	●	8	20	8	60	
GMM4085	●	8.5	21.25	10	75	
GMM4090	●	9	22.5	10	75	
GMM4095	●	9.5	23.75	10	75	
GMM4100	●	10	25	10	75	
GMM4105	●	10.5	26.25	12	75	

※ 請接下頁。 ※ Continued on next page.

產品型號 Model No	在庫 Stock	切削直徑	切刃長度	柄部直徑	標準全長	價格 Price
		DC	APMX	DCON	LF	
GMM4110	●	11	27.5	12	75	
GMM4115	●	11.5	28.75	12	75	
GMM4120	●	12	30	12	75	
GMM4130	●	13	32.5	16	100	
GMM4140	●	14	35	16	100	
GMM4150	●	15	37.5	16	100	
GMM4160	●	16	48	16	100	
GMM4170	●	17	42.5	20	100	
GMM4180	●	18	45	20	100	
GMM4190	●	19	47.5	20	100	
GMM4200	●	20	50	20	100	
GMM4220	●	22	55	25	100	
GMM4250	●	25	62.5	25	100	

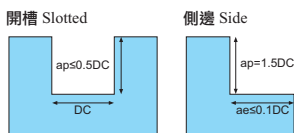
### GMM 4000系列切削參數

The Cutting Data For GMM 4000 Series

被加工材質 Material  
鋼 Steel
不鏽鋼 Stainless steel
鑄鐵 Cast Iron

直徑 (mm) Shank	4	6	8	10	12	16	20	25	
轉速 n (min)	4800	3100	2300	1900	1600	1200	1060	800	
進給速度 Vf (mm/min)	開槽 Slotted	270	240	240	240	240	270	250	230
	側邊 Side	950	650	750	750	550	400	400	320

### 切削深度 Cutting depth



ap : 軸向切削深度 Axial depth of cutting  
 ae : 徑向切削深度 Radial depth of cutting  
 DC : 刃徑 Diameter of cutting

**MU-EMM 4000** 圓溝 4 刃鎢鋼立銑刀  
4 Flutes Rounded Land Carbide End Mill


產品型號 Model No	在庫 Stock	切削直徑	切刃長度	柄部直徑	標準全長	價格 Price
		DC	APMX	DCON	LF	
MU-EMM4030	●	3	7.5	4	50	
MU-EMM4030D6	●	3	7.5	6	50	
MU-EMM4030L109D6	●	3	9	6	50	
MU-EMM4040	●	4	10	4	50	
MU-EMM4040D6	●	4	10	6	50	
MU-EMM4040L112	●	4	12	4	50	
MU-EMM4040L112D6	●	4	12	6	50	
MU-EMM4050	●	5	12.5	6	50	
MU-EMM4050L115	●	5	15	6	50	
MU-EMM4060	●	6	15	6	50	
MU-EMM4060L118	●	6	18	6	50	
MU-EMM4060E1	●	6	15	6	75	
MU-EMM4070	●	7	17.5	8	60	
MU-EMM4070L121	●	7	21	8	60	
MU-EMM4080	●	8	20	8	60	
MU-EMM4080L124	●	8	24	8	60	
MU-EMM4090	●	9	22.5	10	75	
MU-EMM4090L127	●	9	27	10	75	
MU-EMM4100	●	10	25	10	75	
MU-EMM4100L130	●	10	30	10	75	
MU-EMM4120	●	12	30	12	75	
MU-EMM4120L136	●	12	36	12	75	
MU-EMM4140	●	14	35	16	100	
MU-EMM4160	●	16	48	16	100	
MU-EMM4160L160M	●	16	60	16	150	
MU-EMM4200	●	20	50	20	100	

## MU-EMM 4000系列切削參數

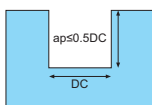
The Cutting Data For MU-EMM 4000 Series

被加工材質 Material  
鋼 Steel
不鏽鋼 Stainless steel
鑄鐵 Cast Iron

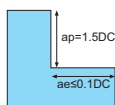
直徑 (mm) Shank		4	6	8	10	12	16	20
轉速 n (min)		4800	3100	2300	1900	1600	1200	1060
進給速度 (mm/min) Vf	開槽 Slotted	270	240	240	240	240	270	250
	側邊 Side	950	650	750	750	550	400	400

### 切削深度 Cutting depth

開槽 Slotted



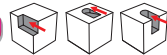
側邊 Side



ap : 軸向切削深度 Axial depth of cutting  
 ae : 徑向切削深度 Radial depth of cutting  
 DC : 刃徑 Diameter of cutting

**MU-GMM 4000**

 圓溝 4 刃鎢鋼立銼刀  
4 Flutes Rounded Land Carbide End Mill


**新規格上市**  
New Specification Arrival


	產品型號 Model No	在庫 Stock	切削直徑	切刃長度	柄部直徑	標準全長	價格 Price
			DC	APMX	DCON	LF	
<b>NEW</b>	MU-GMM4010	●	1	2.5	4	50	
<b>NEW</b>	MU-GMM4015	●	1.5	3.75	4	50	
	MU-GMM4020	●	2	5	4	50	
	MU-GMM4030	●	3	7.5	4	50	
	MU-GMM4030L109	●	3	9	4	50	
	MU-GMM4030D6	●	3	7.5	6	50	
	MU-GMM4031L1093	●	3.1	9.3	4	50	
	MU-GMM4032L1096	●	3.2	9.6	4	50	
	MU-GMM4033L1099	●	3.3	9.9	4	50	
	MU-GMM4034L1102	●	3.4	10.2	4	50	
<b>NEW</b>	MU-GMM4035	●	3.5	8.75	4	50	
<b>NEW</b>	MU-GMM4035D6	●	3.5	8.75	6	50	
	MU-GMM4035L1105	●	3.5	10.5	4	50	
	MU-GMM4036L1108	●	3.6	10.8	4	50	
	MU-GMM4037L1111	●	3.7	11.1	4	50	
	MU-GMM4038L1114	●	3.8	11.4	4	50	
	MU-GMM4039L1117	●	3.9	11.7	4	50	
	MU-GMM4040	●	4	10	4	50	
	MU-GMM4040D6	●	4	10	6	50	
	MU-GMM4040L112	●	4	12	4	50	
	MU-GMM4040L112D6	●	4	12	6	50	
<b>NEW</b>	MU-GMM4040E1	●	4	12.5	4	75	
	MU-GMM4041L1123	●	4.1	12.3	6	50	
	MU-GMM4042L1126	●	4.2	12.6	6	50	
	MU-GMM4043L1129	●	4.3	12.9	6	50	
	MU-GMM4044L1132	●	4.4	13.2	6	50	
	MU-GMM4045L1135	●	4.5	13.5	6	50	
	MU-GMM4046L1138	●	4.6	13.8	6	50	
	MU-GMM4047L1141	●	4.7	14.1	6	50	
	MU-GMM4048L1144	●	4.8	14.4	6	50	
	MU-GMM4049L1147	●	4.9	14.7	6	50	
	MU-GMM4050	●	5	12.5	6	50	
	MU-GMM4050L115	●	5	15	6	50	

※ 請接下頁。 ※ Continued on next page.



	產品型號 Model No	在庫 Stock	切削直徑	切刃長度	柄部直徑	標準全長	價格 Price
			DC	APMX	DCON	LF	
NEW	MU-GMM4050E1	●	5	12.5	6	75	
NEW	MU-GMM4050H	●	5	12.5	6	100	
	MU-GMM4050L120H	●	5	20	6	100	
	MU-GMM4051L1153	●	5.1	15.3	6	50	
	MU-GMM4052L1156	●	5.2	15.6	6	50	
	MU-GMM4053L1159	●	5.3	15.9	6	50	
	MU-GMM4054L1162	●	5.4	16.2	6	50	
	MU-GMM4055	●	5.5	13.75	6	50	
	MU-GMM4055L1165	●	5.5	16.5	6	50	
	MU-GMM4056L1168	●	5.6	16.8	6	50	
	MU-GMM4057L1171	●	5.7	17.1	6	50	
	MU-GMM4058L1174	●	5.8	17.4	6	50	
	MU-GMM4059L1177	●	5.9	17.7	6	50	
	MU-GMM4060	●	6	15	6	50	
NEW	MU-GMM4060L118	●	6	18	6	50	
	MU-GMM4060D	●	6	15	6	60	
	MU-GMM4060E1	●	6	15	6	75	
NEW	MU-GMM4060H	●	6	15	6	100	
	MU-GMM4061L1183	●	6.1	18.3	8	60	
	MU-GMM4062L1186	●	6.2	18.6	8	60	
	MU-GMM4063L1189	●	6.3	18.9	8	60	
	MU-GMM4064L1191	●	6.4	19.1	8	60	
	MU-GMM4064L1192	●	6.4	19.2	8	60	
	MU-GMM4065	●	6.5	16.25	8	60	
	MU-GMM4065L1195	●	6.5	19.5	8	60	
	MU-GMM4066L1198	●	6.6	19.8	8	60	
	MU-GMM4067L1201	●	6.7	20.1	8	60	
	MU-GMM4068L1204	●	6.8	20.4	8	60	
	MU-GMM4069L1207	●	6.9	20.7	8	60	
	MU-GMM4070	●	7	17.5	8	60	
	MU-GMM4070L121	●	7	21.0	8	60	
	MU-GMM4071L1213	●	7.1	21.3	8	60	
	MU-GMM4072L1216	●	7.2	21.6	8	60	
	MU-GMM4073L1219	●	7.3	21.9	8	60	
	MU-GMM4074L1222	●	7.4	22.2	8	60	
	MU-GMM4075	●	7.5	18.75	8	60	
	MU-GMM4075L1225	●	7.5	22.5	8	60	
	MU-GMM4076L1228	●	7.6	22.8	8	60	
	MU-GMM4077L1231	●	7.7	23.1	8	60	
	MU-GMM4078L1234	●	7.8	23.4	8	60	
	MU-GMM4079L1237	●	7.9	23.7	8	60	
	MU-GMM4080	●	8	20	8	60	

※ 請接下一頁。 ※ Continued on next page.

產品型號 Model No	在庫 Stock	切削直徑	切刃長度	柄部直徑	標準全長	價格 Price
		DC	APMX	DCON	LF	
MU-GMM4080L124	●	8	24	8	60	
MU-GMM4080E1	●	8	20	8	75	
MU-GMM4080H	●	8	20	8	100	
MU-GMM4080M	●	8	20	8	150	
MU-GMM4081L1243	●	8.1	24.3	10	75	
MU-GMM4082L1246	●	8.2	24.6	10	75	
MU-GMM4083L1249	●	8.3	24.9	10	75	
MU-GMM4084L1252	●	8.4	25.2	10	75	
MU-GMM4085L1255	●	8.5	25.5	10	75	
MU-GMM4086L1258	●	8.6	25.8	10	75	
MU-GMM4087L1261	●	8.7	26.1	10	75	
MU-GMM4088L1264	●	8.8	26.4	10	75	
MU-GMM4089L1267	●	8.9	26.7	10	75	
MU-GMM4090	●	9	22.5	10	75	
MU-GMM4090L127	●	9	27	10	75	
MU-GMM4091L1273	●	9.1	27.3	10	75	
MU-GMM4092L1276	●	9.2	27.6	10	75	
MU-GMM4093L1279	●	9.3	27.9	10	75	
MU-GMM4094L130	●	9.4	30	10	75	
MU-GMM4094L1282	●	9.4	28.2	10	75	
MU-GMM4095L1285	●	9.5	28.5	10	75	
MU-GMM4096L1288	●	9.6	28.8	10	75	
MU-GMM4097L1291	●	9.7	29.1	10	75	
MU-GMM4098L1294	●	9.8	29.4	10	75	
MU-GMM4099L1297	●	9.9	29.7	10	75	
MU-GMM4100	●	10	25	10	75	
MU-GMM4100L130	●	10	30	10	75	
MU-GMM4100H	●	10	25	10	100	
MU-GMM4100L130H	●	10	30	10	100	
<b>NEW</b> MU-GMM4100M	●	10	25	10	150	
MU-GMM4110	●	11	27.5	12	75	
MU-GMM4120	●	12	30	12	75	
MU-GMM4120L136	●	12	36	12	75	
MU-GMM4120H	●	12	30	12	100	
MU-GMM4120L155H	●	12	55	12	100	
<b>NEW</b> MU-GMM4120M	●	12	30	12	150	
<b>NEW</b> MU-GMM4120L155M	●	12	55	12	150	
MU-GMM4140	●	14	35	16	100	
<b>NEW</b> MU-GMM4142	●	14.2	35.5	16	100	
MU-GMM4160	●	16	48	16	100	
MU-GMM4160M	●	16	48	16	150	
MU-GMM4180	●	18	45	20	100	

※ 請接下頁。 ※ Continued on next page.

產品型號 Model No	在庫 Stock	切削直徑	切刃長度	柄部直徑	標準全長	價格 Price
		DC	APMX	DCON	LF	
MU-GMM4200	●	20	50	20	100	

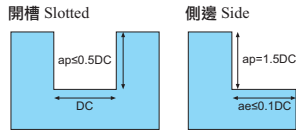
## MU-GMM 4000系列切削參數

The Cutting Data For MU-GMM 4000 Series

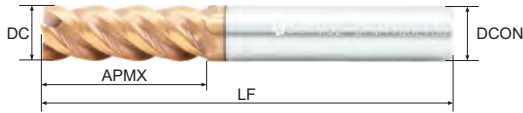
被加工材質 Material 鋼 Steel 不鏽鋼 Stainless steel 鑄鐵 Cast Iron

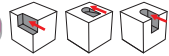
直徑 (mm) Shank	4	6	8	10	12	16	20
轉速 n (min)	4800	3100	2300	1900	1600	1200	1060
進給速度 (mm/min) Vf	開槽 Slotted	270	240	240	240	240	250
	側邊 Side	950	650	750	750	550	400

### 切削深度 Cutting depth



ap : 軸向切削深度 Axial depth of cutting  
 ae : 徑向切削深度 Radial depth of cutting  
 DC : 刃徑 Diameter of cutting

**MU2-GPM 4000** 4 刃圓溝雙瓣除銹鋼立銼刀  
4 Flutes Rounded Land Double Edge Carbide End Mill


**新規格上市**  
New Specification Arrival


產品型號 Model No	在庫 Stock	切削直徑	切刃長度	柄部直徑	標準全長	價格 Price
		DC	APMX	DCON	LF	
MU2-GPM4040	●	4	10	4	50	
MU2-GPM4040L112D6	●	4	12	6	50	
MU2-GPM4050	●	5	12.5	6	50	
MU2-GPM4050L115	●	5	15	6	50	
MU2-GPM4060	●	6	15	6	50	
MU2-GPM4060L118	●	6	18	6	50	
MU2-GPM4070L121	●	7	21	8	60	
MU2-GPM4080	●	8	20	8	60	
MU2-GPM4080L124	●	8	24	8	60	
MU2-GPM4100	●	10	25	10	75	
MU2-GPM4100L130	●	10	30	10	75	
MU2-GPM4120	●	12	30	12	75	
MU2-GPM4120L136	●	12	36	12	75	
MU2-GPM4160	●	16	48	16	100	
MU2-GPM4200	●	20	50	20	100	

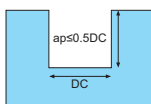
**MU2-GPM 4000系列切削參數**  
The Cutting Data For MU2-GPM 4000 Series

 被加工材質 Material 合金鋼 Alloy Steel 碳鋼 Carbon Steel

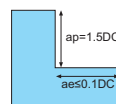
直徑 (mm) Shank	4	6	8	10	12	16	20
轉速 n (min)	6000	4000	2900	2400	1900	1500	1200
進給速度 Vf (mm/min)	開槽 Slotted	420	420	420	420	420	420
	側邊 Side	1100	800	950	750	500	400

**切削深度 Cutting depth**

開槽 Slotted

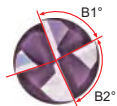


側邊 Side


 ap : 軸向切削深度 Axial depth of cutting  
 ae : 徑向切削深度 Radial depth of cutting  
 DC : 刃徑 Diameter of cutting

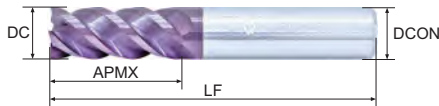
# MUH-GMM 4000

圓溝不等分 4 刃鎢鋼立銑刀  
4 Flutes Unequal Division Round Land  
Carbide End Mill



不等分  
Unequal Division

$B1^\circ \neq B2^\circ$



新規格上市  
New Specification Arrival



產品型號 Model No	在庫 Stock	切削直徑 DC	切削長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
NEW MUH-GMM4030	●	3	7.5	4	50	
MUH-GMM4040	●	4	10	4	50	
NEW MUH-GMM4040L112	●	4	12	4	50	
NEW MUH-GMM4050	●	5	12.5	6	50	
MUH-GMM4060	●	6	15	6	50	
MUH-GMM4070	●	7	17.5	8	60	
MUH-GMM4080	●	8	20	8	60	
MUH-GMM4080L124	●	8	24	8	60	
MUH-GMM4100	●	10	25	10	75	
MUH-GMM4100L130	●	10	30	10	75	
MUH-GMM4100H	●	10	25	10	100	
MUH-GMM4120	●	12	30	12	75	
MUH-GMM4120L136	●	12	36	12	75	
MUH-GMM4160	●	16	48	16	100	
MUH-GMM4200	●	20	50	20	100	

## MUH-GMM 4000系列切削參數

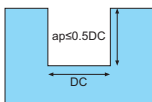
The Cutting Data For MUH-GMM 4000 Series

被加工材質 Material  
鋼 Steel
不鏽鋼 Stainless steel
鑄鐵 Cast Iron

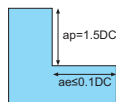
直徑 (mm) Shank	4	6	8	10	12	16	20
轉速 n (min)	6000	4000	2900	2400	1900	1500	1200
進給速度 Vf (mm/min)	開槽 Slotted	420	420	420	420	420	420
	側邊 Side	1100	800	950	750	500	400

### 切削深度 Cutting depth

開槽 Slotted

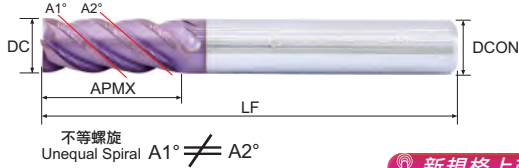


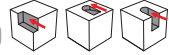
側邊 Side



ap : 軸向切削深度 Axial depth of cutting  
 ae : 徑向切削深度 Radial depth of cutting  
 DC : 刃徑 Diameter of cutting

**MUH-IMM 4000**

 圓溝不等分割不等螺旋 4 刃鎢鋼立銑刀  
 Rounded Unequal Spiral & Unequal Division  
 4 Flutes Carbide End Mill


 新規格上市  
New Specification Arrival


產品型號 Model No		在庫 Stock	切削直徑 DC	切刃長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
NEW	MUH-IMM4030L109	●	3	9	4	50	
NEW	MUH-IMM4035L109	●	3.5	9	4	50	
	MUH-IMM4040	●	4	10	4	50	
NEW	MUH-IMM4040L112	●	4	12	4	50	
	MUH-IMM4040L112D6	●	4	12	6	50	
NEW	MUH-IMM4050	●	5	12.5	6	50	
NEW	MUH-IMM4050L112	●	5	12	6	50	
NEW	MUH-IMM4050L115	●	5	15	6	50	
NEW	MUH-IMM4055L113	●	5.5	13	6	50	
	MUH-IMM4060	●	6	15	6	50	
	MUH-IMM4060L118	●	6	18	6	50	
NEW	MUH-IMM4070	●	7	17.5	8	60	
	MUH-IMM4070L121	●	7	21	8	60	
	MUH-IMM4070L130E1	●	7	30	8	75	
NEW	MUH-IMM4073L1219	●	7.3	21.9	8	60	
	MUH-IMM4075	●	7.5	18.75	8	60	
	MUH-IMM4080	●	8	20	8	60	
	MUH-IMM4080L124	●	8	24	8	60	
NEW	MUH-IMM4085L1255	●	8.5	25.5	10	75	
NEW	MUH-IMM4090	●	9	22.5	10	75	
NEW	MUH-IMM4095	●	9.5	23.75	10	75	
	MUH-IMM4100	●	10	25	10	75	
	MUH-IMM4100L130	●	10	30	10	75	
	MUH-IMM4120	●	12	30	12	75	
	MUH-IMM4120L136	●	12	36	12	75	
NEW	MUH-IMM4120L138	●	12	38	12	75	
	MUH-IMM4120L140	●	12	40	12	75	
	MUH-IMM4120H	●	12	30	12	100	
NEW	MUH-IMM4120L142H	●	12	42	12	100	
	MUH-IMM4120L145H	●	12	45	12	100	
	MUH-IMM4120L153H	●	12	53	12	100	
	MUH-IMM4120L155H	●	12	55	12	100	
	MUH-IMM4140	●	14	35	16	100	

※ 請接下一页。 ※ Continued on next page.

	產品型號 Model No	在庫 Stock	切削直徑	切刃長度	柄部直徑	標準全長	價格
			DC	APMX	DCON	LF	Price
	MUH-IMM4150	●	15	37.5	16	100	
NEW	MUH-IMM4160L122E1	●	16	22	16	75	
	MUH-IMM4160	●	16	48	16	100	
NEW	MUH-IMM4160L140	●	16	40	16	100	
	MUH-IMM4160L155	●	16	55	16	100	
NEW	MUH-IMM4180	●	18	45	20	100	
NEW	MUH-IMM4190	●	19	47.5	20	100	
NEW	MUH-IMM4200	●	20	50	20	100	
NEW	MUH-IMM4200L160M	●	20	60	20	150	
NEW	MUH-IMM4200L170M	●	20	70	20	150	
NEW	MUH-IMM4200L175M	●	20	75	20	150	
NEW	MUH-IMM4200L1130R	●	20	130	20	200	

## MUH-IMM 4000系列切削參數

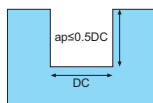
The Cutting Data For MUH-IMM 4000 Series

被加工材質 Material  
鋼 Steel
不鏽鋼 Stainless steel
鑄鐵 Cast Iron

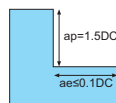
直徑 (mm) Shank	4	6	8	10	12	16	20
轉速 n (min)	6000	4000	2900	2400	1900	1500	1200
進給速度 (mm/min) Vf	開槽 Slotted	420	420	420	420	420	420
	側邊 Side	1100	800	950	750	500	400

### 切削深度 Cutting depth

開槽 Slotted



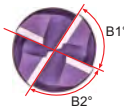
側邊 Side



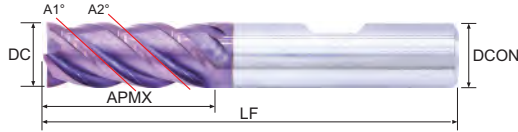
ap : 軸向切削深度 Axial depth of cutting  
 ae : 徑向切削深度 Radial depth of cutting  
 DC : 刃徑 Diameter of cutting

# MUH-IMM 4000-DIN

圓溝不等分割不等螺旋 4 刃鎢鋼立銑刀 - 歐洲規格  
 Rounded Unequal Spiral & Unequal Division  
 4 Flutes Carbide End Mill-DIN

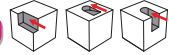


不等分割  
 Unequal Division  
 $B1^\circ \neq B2^\circ$



不等螺旋  
 Unequal Spiral  $A1^\circ \neq A2^\circ$

新規格上市  
 New Specification Arrival



產品型號 Model No	在庫 Stock	切削直徑	切刃長度	柄部直徑	標準全長	價格 Price
		DC	APMX	DCON	LF	
MUH-IMM4040-DIN		4	10	4	50	
MUH-IMM4040D6-DIN	●	4	10	6	50	
MUH-IMM4060-DIN	●	6	15	6	50	
MUH-IMM4080-DIN	●	8	20	8	60	
MUH-IMM4100-DIN	●	10	25	10	75	
MUH-IMM4120-DIN	●	12	30	12	75	
MUH-IMM4160-DIN		16	48	16	100	
MUH-IMM4200-DIN	●	20	50	20	100	

NEW

## MUH-IMM 4000-DIN系列切削參數

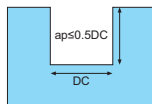
The Cutting Data For MUH-IMM 4000-DIN Series

被加工材質 Material  
鋼 Steel
不鏽鋼 Stainless steel
鑄鐵 Cast Iron

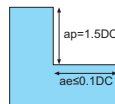
直徑 (mm) Shank	4	6	8	10	12	16	20
轉速 n (min)	6000	4000	2900	2400	1900	1500	1200
進給速度 (mm/min) Vf	開槽 Slotted	420	420	420	420	420	420
	側邊 Side	1100	800	950	750	500	400

### 切削深度 Cutting depth

開槽 Slotted



側邊 Side



ap : 軸向切削深度 Axial depth of cutting  
 ae : 徑向切削深度 Radial depth of cutting  
 DC : 刃徑 Diameter of cutting





A1°  
不等螺旋  
Unequal Spiral  
A1° ≠ A2°



**MUH-FMM series**

# 圓溝不等分割不等螺旋

Round land Unequal Spiral Unequal Division

## 4 刃鎢鋼立銑刀

4 Flutes Carbide End Mill

**不等角分割利於高速進給加工抗震性**

Unequal division to improve seismic resistance of high-speed feed machining.

**不等螺旋角利於高速加工抗崩裂性**

Unequal helix angle to improve high speed processing resistance to chipping.

螺旋角採用35°/38°設計，刀刃採用分割角及螺旋角不相等，改變每刃進給量，使每刃的銑削波形不再相同，可有效降低或避免刀具進行側銑時的切削震動紋路，有利於獲得高質量的加工表面和提高刀具壽命。特殊U型溝槽設計，利於插銑加工時排屑優良，減少工件產生端口毛刺

Helix angle 35°/38° design, the cutting edge adopts the division angle and the spiral angle are not equal change the feed per blade make the milling waveform of each edge no longer the same It can effectively reduce and avoid the vibration pattern generated during side milling conducive to high quality machining surfaces and improved tool life, special U-shaped groove design Makes the commissioner with excellent chip removal effect during the plunge milling process reduce workpiece generation port burrs.



側銑

Side Milling



斜度坡走銑削

Angular Plunge Grinding



全開槽

Full Slot

適用材質 Processing on

鋼  
Alloy Steel

不鏽鋼  
Stainless Steel

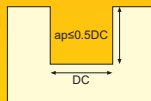
鑄鐵  
Cast Iron

### 切削參數 The Cutting Data

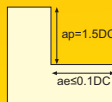
直徑 (mm) Shank		4	6	8	10	12	16	20
轉速 n (min)		6000	4000	2900	2400	1900	1500	1200
進給速度 Vf (mm/min)	開槽 Slotted	420	420	420	420	420	420	420
	側邊 Side	1100	800	950	750	500	480	400

### 切削深度 Cutting depth

開槽 Slotted



側邊 Side



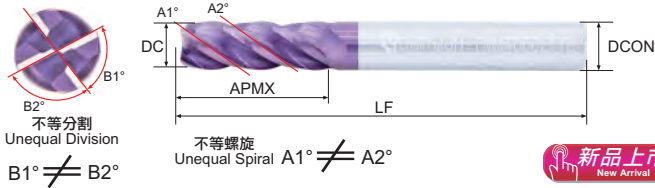
ap: 軸向切削深度 Axial depth of cutting

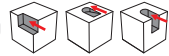
ae: 徑向切削深度 Radial depth of cutting

DC: 刃徑 Diameter of cutting

# MUH-FMM 4000

圓溝不等分割不等螺旋 4 刃鎢鋼立銑刀  
Round land Unequal Spiral Unequal Division  
4 Flutes Carbide End Mill



**新品上市**  
New Arrival


	產品型號 Model No	在庫 Stock	切削直徑	切刃長度	柄部直徑	標準全長	價格 Price
			DC	APMX	DCON	LF	
NEW	MUH-FMM4020L106		2	6	4	50	
NEW	MUH-FMM4030L109		3	9	4	50	
NEW	MUH-FMM4040L112		4	12	4	50	
NEW	MUH-FMM4050L115		5	15	6	50	
NEW	MUH-FMM4060		6	15	6	50	
NEW	MUH-FMM4060L118	●	6	18	6	50	
NEW	MUH-FMM4080		8	20	8	60	
NEW	MUH-FMM4080L124		8	24	8	60	
NEW	MUH-FMM4100		10	25	10	75	
NEW	MUH-FMM4100L130		10	30	10	75	
NEW	MUH-FMM4120		12	30	12	75	
NEW	MUH-FMM4120L136	●	12	36	12	75	
NEW	MUH-FMM4160	●	16	48	16	100	
NEW	MUH-FMM4200		20	50	20	100	

## MUH-FMM 4000系列切削參數

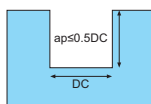
The Cutting Data For MUH-FMM 4000 Series

被加工材質 Material **鋼 Steel** **不鏽鋼 Stainless steel** **鑄鐵 Cast Iron**

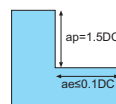
直徑 (mm) Shank	4	6	8	10	12	16	20
轉速 n (min)	6000	4000	2900	2400	1900	1500	1200
進給速度 (mm/min) Vf	開槽 Slotted	420	420	420	420	420	420
	側邊 Side	1100	800	950	750	500	400

### 切削深度 Cutting depth

開槽 Slotted



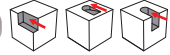
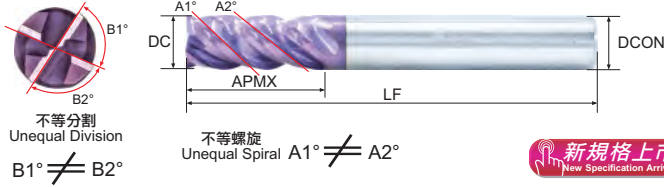
側邊 Side



ap : 軸向切削深度 Axial depth of cutting  
ae : 徑向切削深度 Radial depth of cutting  
DC : 刃徑 Diameter of cutting

# MUH-IGM 4000

圓溝不等分割不等螺旋 4 刃鎢鋼立銑刀  
Round land Unequal Spiral Unequal Division  
4 Flutes Carbide End Mill



產品型號 Model No	在庫 Stock	切削直徑	切刃長度	柄部直徑	標準全長	價格 Price
		DC	APMX	DCON	LF	
MUH-IGM4040	●	4	10	4	50	
MUH-IGM4040L112	●	4	12	4	50	
MUH-IGM4050	●	5	12.5	6	50	
MUH-IGM4060	●	6	15	6	50	
MUH-IGM4060L118	●	6	18	6	50	
MUH-IGM4080	●	8	20	8	60	
MUH-IGM4080L124	●	8	24	8	60	
MUH-IGM4100	●	10	25	10	75	
MUH-IGM4100L130	●	10	30	10	75	
MUH-IGM4120	●	12	30	12	75	
MUH-IGM4120L136	●	12	36	12	75	

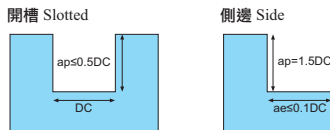
## MUH-IGM 4000系列切削參數

The Cutting Data For MUH-IGM 4000 Series

被加工材質 Material **合金鋼 Alloy Steel** **碳鋼 Carbon Steel**

直徑 (mm) Shank	4	6	8	10	12	16	20
轉速 n (min)	6000	4000	2900	2400	1900	1500	1200
進給速度 V <sub>f</sub> (mm/min)	開槽 Slotted	420	420	420	420	420	420
	側邊 Side	1100	800	950	750	500	400

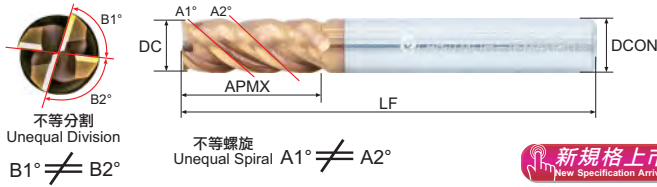
### 切削深度 Cutting depth



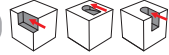
ap : 軸向切削深度 Axial depth of cutting  
ae : 徑向切削深度 Radial depth of cutting  
DC : 刃徑 Diameter of cutting

# MUH-IEM 4000

圓溝不等分割不等螺旋 4 刃鎢鋼立銼刀  
Round land Unequal Spiral Unequal Division  
4 Flutes Carbide End Mill



**新規格上市**  
New Specification Arrival



產品型號 Model No	在庫 Stock	切削直徑 DC	切削長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
MUH-IEM4040	●	4	10	4	50	
MUH-IEM4040L112	●	4	12	4	50	
MUH-IEM4040L112D6	●	4	12	6	50	
MUH-IEM4050L115	●	5	15	6	50	
MUH-IEM4060	●	6	15	6	50	
MUH-IEM4060L118	●	6	18	6	50	
MUH-IEM4070L121	●	7	21	8	60	
MUH-IEM4080	●	8	20	8	60	
MUH-IEM4080L124	●	8	24	8	60	
MUH-IEM4100	●	10	25	10	75	
MUH-IEM4100L130	●	10	30	10	75	
MUH-IEM4120	●	12	30	12	75	
MUH-IEM4120L136	●	12	36	12	75	

## MUH-IEM 4000系列切削參數

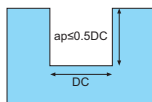
The Cutting Data For MUH-IEM 4000 Series

被加工材質 Material **合金鋼 Alloy Steel** **碳鋼 Carbon Steel**

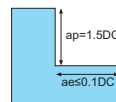
直徑 (mm) Shank	4	6	8	10	12	16	20
轉速 n (min)	6000	4000	2900	2400	1900	1500	1200
進給速度 (mm/min) Vf	開槽 Slotted	420	420	420	420	420	420
	側邊 Side	1100	800	950	750	500	400

### 切削深度 Cutting depth

開槽 Slotted



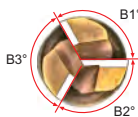
側邊 Side



ap: 軸向切削深度 Axial depth of cutting  
ae: 徑向切削深度 Radial depth of cutting  
DC: 刃徑 Diameter of cutting

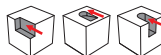
# MUH-IPM 3000L1

圓溝不等分割不等螺旋3刃抗震鎢鋼立銑刀  
Round Land Unequal Spiral & Unequal Division  
Seismic Performance 3 Flutes Carbide End Mill



不等分割 Unequal Division  
 $B1^\circ \neq B2^\circ \neq B3^\circ$

不等螺旋  
Unequal Spiral  $A1^\circ \neq A2^\circ$



產品型號 Model No	在庫 Stock	切削直徑	切刃長度	柄部直徑	標準全長	價格 Price
		DC	APMX	DCON	LF	
MUH-IPM3040L112	●	4	12	4	50	
MUH-IPM3040L112D6	●	4	12	6	50	
MUH-IPM3050L115	●	5	15	6	50	
MUH-IPM3060L118	●	6	18	6	50	
MUH-IPM3080L124	●	8	24	8	60	
MUH-IPM3100L130	●	10	30	10	75	
MUH-IPM3120L136	●	12	36	12	75	
MUH-IPM3160L148	●	16	48	16	100	

## MUH-IPM 3000L1 系列切削參數

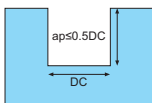
The Cutting Data For MUH-IPM 3000L1 Series

被加工材質 Material 合金鋼 Alloy Steel 碳鋼 Carbon Steel

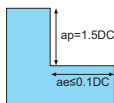
直徑 (mm) Shank	4	6	8	10	12	16	20
轉速 n (min)	6000	4000	2900	2400	1900	1500	1200
進給速度 (mm/min) Vf	開槽 Slotted	360	360	300	300	280	230
	側邊 Side	540	480	480	480	400	400

### 切削深度 Cutting depth

開槽 Slotted

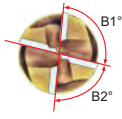
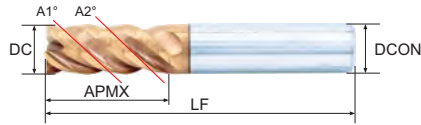


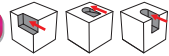
側邊 Side



ap : 軸向切削深度 Axial depth of cutting  
ae : 徑向切削深度 Radial depth of cutting  
DC : 刃徑 Diameter of cutting

**MUH-IPM 4000**

 圓溝不等分割不等螺旋 4 刃抗震鎢鋼立銑刀  
 Round Land Unequal Spiral & Unequal Division  
 Seismic Performance 4 Flutes Carbide End Mill

 不等分割  
 Unequal Division  
 $B1^\circ \neq B2^\circ$ 

 不等螺旋  
 Unequal Spiral  $A1^\circ \neq A2^\circ$ 

 新規格上市  
 New Specification Arrival


	產品型號 Model No	在庫 Stock	切削直徑	切刃長度	柄部直徑	標準全長	價格
			DC	APMX	DCON	LF	Price
<b>NEW</b>	MUH-IPM4030D6	●	3	7.5	6	50	
	MUH-IPM4040	●	4	10	4	50	
	MUH-IPM4040D6	●	4	10	6	50	
<b>NEW</b>	MUH-IPM4040L112D6	●	4	12	6	50	
	MUH-IPM4050	●	5	12.5	6	50	
<b>NEW</b>	MUH-IPM4050L115	●	5	15	6	50	
	MUH-IPM4060	●	6	15	6	50	
	MUH-IPM4060L118	●	6	18	6	50	
<b>NEW</b>	MUH-IPM4070	●	7	17.5	8	60	
<b>NEW</b>	MUH-IPM4070L121	●	7	21	8	60	
	MUH-IPM4080	●	8	20	8	60	
	MUH-IPM4080L124	●	8	24	8	60	
<b>NEW</b>	MUH-IPM4086	●	8.6	21.5	10	75	
	MUH-IPM4090	●	9	22.5	10	75	
	MUH-IPM4100	●	10	25	10	75	
	MUH-IPM4100L130	●	10	30	10	75	
<b>NEW</b>	MUH-IPM4100L135	●	10	35	10	75	
	MUH-IPM4120	●	12	30	12	75	
	MUH-IPM4120L136	●	12	36	12	75	
<b>NEW</b>	MUH-IPM4120L155H	●	12	55	12	100	
	MUH-IPM4160	●	16	48	16	100	
	MUH-IPM4160L170M	●	16	70	16	150	
	MUH-IPM4200	●	20	50	20	100	
	MUH-IPM4200L160M	●	20	60	20	150	
	MUH-IPM4200L170M	●	20	70	20	150	
	MUH-IPM4200L180M	●	20	80	20	150	

## MUH-IPM 4000系列切削參數

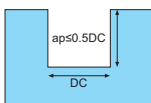
The Cutting Data For MUH-IPM 4000 Series

被加工材質 Material 合金鋼 Alloy Steel 碳鋼 Carbon Steel

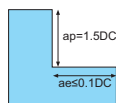
直徑 (mm) Shank	4	6	8	10	12	16	20
轉速 n (min)	6000	4000	2900	2400	1900	1500	1200
進給速度 (mm/min) Vf	開槽 Slotted	480	350	350	300	300	300
	側邊 Side	720	640	580	580	580	400

### 切削深度 Cutting depth

開槽 Slotted

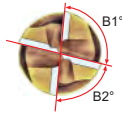


側邊 Side

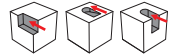


- ap : 軸向切削深度 Axial depth of cutting
- ae : 徑向切削深度 Radial depth of cutting
- DC : 刃徑 Diameter of cutting

# MUH-FPM 4000

 圓溝不等分割不等螺旋圓溝4刃鎢鋼立銼刀  
 Round Land Unequal Spiral & Unequal Division  
 4 Flutes Carbide End Mill

 不等分割  
 Unequal Division  
 $B1^\circ \neq B2^\circ$ 

 不等螺旋  
 Unequal Spiral  $A1^\circ \neq A2^\circ$ 


 新規格上市  
 New Specification Arrival


產品型號 Model No	在庫 Stock	切削直徑	切刃長度	柄部直徑	標準全長	價格 Price
		DC	APMX	DCON	LF	
MUH-FPM4020L106	●	2	6	4	50	
MUH-FPM4030L109	●	3	9	4	50	
MUH-FPM4040L112	●	4	12	4	50	
MUH-FPM4050L115	●	5	15	6	50	
MUH-FPM4060	●	6	15	6	50	
MUH-FPM4060L118	●	6	18	6	50	
MUH-FPM4080	●	8	20	8	60	
MUH-FPM4080L124	●	8	24	8	60	
MUH-FPM4100	●	10	25	10	75	
MUH-FPM4100L130	●	10	30	10	75	
MUH-FPM4120	●	12	30	12	75	
MUH-FPM4120L136	●	12	36	12	75	
<b>NEW</b> MUH-FPM4120L145H	●	12	45	12	100	
MUH-FPM4160	●	16	48	16	100	
<b>NEW</b> MUH-FPM4160L140	●	16	40	16	100	
MUH-FPM4200	●	20	50	20	100	

## MUH-FPM 4000系列切削參數

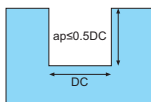
The Cutting Data For MUH-FPM 4000 Series

 被加工材質 Material 合金鋼 Alloy Steel 碳鋼 Carbon Steel

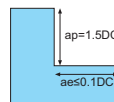
直徑 (mm) Shank	6	8	10	12	16	20
轉速 n (min)	4000	2900	2400	1900	1500	1200
進給速度 (mm/min) Vf	開槽 Slotted	420	420	420	420	420
	側邊 Side	800	950	750	500	400

切削深度 Cutting depth

開槽 Slotted



側邊 Side



$a_p$  : 軸向切削深度 Axial depth of cutting  
 $a_e$  : 徑向切削深度 Radial depth of cutting  
 DC : 刃徑 Diameter of cutting



## 不等角分割利於高速進給加工抗震性 不等螺旋角利於高速加工抗崩裂性

Unequal division to improve seismic resistance of high-speed feed machining.  
Unequal helix angle to improve high tree processing resistance to chipping.

螺旋角採用39°/41°設計

刀刃採用分割角及螺旋角不相等  
改變每刃進給量，使每刃的銑削波形不再相同  
可有效降低或避免刀具進行側銑時的  
切削震動紋路，有利於獲得高質量的加工表面  
和提高刀具壽命。

Helix angle 39°/41° design

The cutting edge adopts the division angle and the spiral angle are not equal change the feed per blade make the milling waveform of each edge no longer the same It can effectively reduce and avoid the vibration pattern generated during side milling conducive to high quality machining surfaces and improved tool life.

## 平溝不等分割不等螺旋

Flat Land Unequal Spiral Unequal Division

## 4 刃鎢鋼立銑刀

4 Flutes Carbide End Mill

特殊 U 型溝槽設計，利於插銑加工時  
排屑優良，減少工件產生端口毛刺

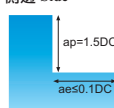
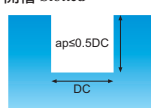
Special U-shaped groove design  
Makes the commissioner with excellent chip removal effect during the plunge milling process  
reduce workpiece generation port burrs.

ap: 軸向切削深度  
Axial depth of cutting  
ae: 徑向切削深度  
Radial depth of cutting  
DC: 刃徑  
Diameter of cutting

切削深度 Cutting depth

開槽 Slotted

側邊 Side



適用材質 Processing on

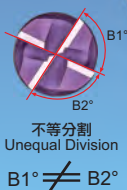
鋼  
Steel

不鏽鋼  
Stainless Steel

鑄鐵  
Cast Iron

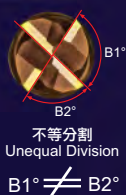
不等螺旋  
Unequal Spiral  
 $A1^\circ \neq A2^\circ$

MMH-LMM  
series



不等螺旋  
Unequal Spiral  
 $A1^\circ \neq A2^\circ$

MMH-LPM  
series



專用特殊塗層  
Special Coating For

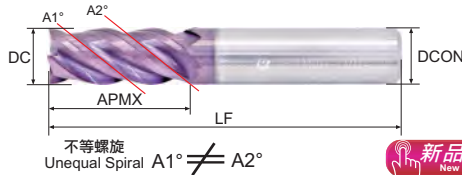
合金鋼  
Alloy Steel

碳鋼  
Carbon Steel

直徑 (mm) Shank	4	6	8	10	12	16
轉速 n (min)	6000	4000	2900	2400	1900	1500
進給速度 Vf (mm/min)	開槽 Slotted	420	420	420	420	420
	側邊 Side	1100	800	950	750	500

# MMH-LMM 4000

平溝不等分割不等螺旋 4 刃鎢鋼立銑刀  
Flat Land Unequal Spiral & Unequal Division  
4 Flutes Carbide End Mill



新品上市  
New Arrival



	產品型號 Model No	在庫 Stock	切削直徑	切刃長度	柄部直徑	標準全長	價格
			DC	APMX	DCON	LF	Price
NEW	MMH-LMM4040	●	4	10	4	50	
NEW	MMH-LMM4060	●	6	15	6	50	
NEW	MMH-LMM4080	●	8	20	8	60	
NEW	MMH-LMM4100	●	10	25	10	75	
NEW	MMH-LMM4120	●	12	30	12	75	
NEW	MMH-LMM4160L155	●	16	55	16	100	
NEW	MMH-LMM4160M	●	16	48	16	150	

## MMH-LMM 4000系列切削參數

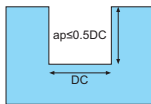
The Cutting Data For MMH-LMM 4000 Series

被加工材質 Material  
鋼 Steel
不鏽鋼 Stainless steel
鑄鐵 Cast Iron

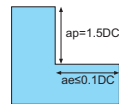
直徑 (mm) Shank	4	6	8	10	12	16
轉速 n (min)	6000	4000	2900	2400	1900	1500
進給速度 (mm/min) $V_f$	開槽 Slotted	420	420	420	420	420
	側邊 Side	1100	800	950	500	500

### 切削深度 Cutting depth

開槽 Slotted



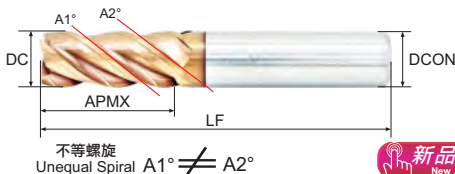
側邊 Side



ap : 軸向切削深度 Axial depth of cutting  
 ae : 徑向切削深度 Radial depth of cutting  
 DC : 刃徑 Diameter of cutting

# MMH-LPM 4000

平溝不等分割不等螺旋 4 刃鎢鋼立銑刀  
Flat Land Unequal Spiral & Unequal Division  
4 Flutes Carbide End Mill



新品上市  
New Arrival



產品型號 Model No	在庫 Stock	切削直徑	切削長度	柄部直徑	標準全長	價格 Price
		DC	APMX	DCON	LF	
MMH-LPM4040	●	4	10	4	50	
MMH-LPM4055L1165	●	5.5	16.5	6	50	
MMH-LPM4060	●	6	15	6	50	
MMH-LPM4080	●	8	20	8	60	
MMH-LPM4100	●	10	25	10	75	
MMH-LPM4120	●	12	30	12	75	
MMH-LPM4160	●	16	48	16	100	

## MMH-LPM 4000系列切削參數

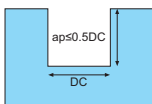
The Cutting Data For MMH-LPM 4000 Series

被加工材質 Material 合金鋼 Alloy Steel 碳鋼 Carbon Steel

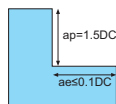
直徑 (mm) Shank	4	6	8	10	12	16
轉速 n (min)	6000	4000	2900	2400	1900	1500
進給速度 (mm/min) Vf	開槽 Slotted	420	420	420	420	420
	側邊 Side	1100	800	950	500	500

### 切削深度 Cutting depth

開槽 Slotted

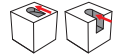
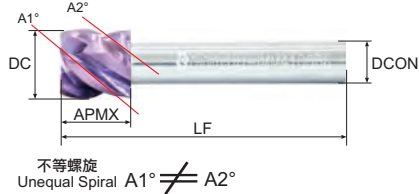


側邊 Side



ap : 軸向切削深度 Axial depth of cutting  
ae : 徑向切削深度 Radial depth of cutting  
DC : 刃徑 Diameter of cutting

**LUH-IMM 4000**

 車銑複合機用鎢鋼銑刀  
Turning And Milling Center Carbide End Mill


產品型號 Model No	在庫 Stock	切削直徑 DC	切刃長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
LUH-IMM4080	●	8	8	8	40	
LUH-IMM4080D6		8	8	6	40	
LUH-IMM4100D6		10	10	6	40	
LUH-IMM4120D10	●	12	12	10	40	
LUH-IMM4160D10		16	16	10	40	

**LUH-IMM 4000系列切削參數**

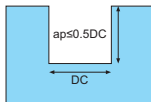
The Cutting Data For LUH-IMM 4000 Series

 被加工材質 Material
 鋼 Steel
不鏽鋼 Stainless steel
鑄鐵 Cast Iron

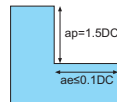
直徑 (mm) Shank	6	8	10
轉速 n (min)	4000	2900	2400
進給速度 Vf (mm/min)	開槽 Slotted	420	420
	側邊 Side	800	950

**切削深度 Cutting depth**

開槽 Slotted



側邊 Side



ap : 軸向切削深度 Axial depth of cutting  
ae : 徑向切削深度 Radial depth of cutting  
DC : 刃徑 Diameter of cutting



新規格上市  
New Specification Arrival



產品型號 Model No	在庫 Stock	切削直徑	切刃長度	柄部直徑	標準全長	價格 Price
		DC	APMX	DCON	LF	
GMM6040	●	4	10	4	50	
GMM6045	●	4.5	11.25	6	50	
GMM6050	●	5	12.5	6	50	
GMM6060	●	6	15	6	50	
GMM6060L118	●	6	18	6	50	
GMM6080	●	8	20	8	60	
GMM6100	●	10	25	10	75	
GMM6100L130	●	10	30	10	75	
GMM6120	●	12	30	12	75	
GMM6160	●	16	48	16	100	
GMM6200	●	20	50	20	100	
GMM6250	●	25	62.5	25	100	

NEW

## GMM 6000系列切削參數

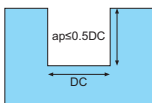
The Cutting Data For GMM 6000 Series

被加工材質 Material **鋼 Steel** **不鏽鋼 Stainless steel** **鑄鐵 Cast Iron**

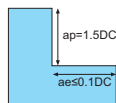
直徑 (mm) Shank		4	6	8	10	12	16	20	25
轉速 n (min)		4800	3100	2300	1900	1600	1200	1060	800
進給速度 (mm/min) Vf	開槽 Slotted	405	300	360	360	360	405	405	350
	側邊 Side	1450	1000	1150	1150	850	600	480	480

### 切削深度 Cutting depth

開槽 Slotted

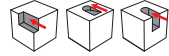


側邊 Side



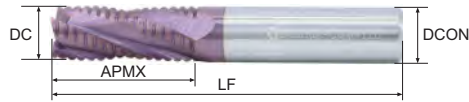
ap : 軸向切削深度 Axial depth of cutting  
ae : 徑向切削深度 Radial depth of cutting  
DC : 刃徑 Diameter of cutting

**FM-CMM 4000**

 細齒 4 刃鎢鋼粗銑刀  
4 Flutes Fine Pitch & Finishing Roughing Carbide End Mill


產品型號 Model No	在庫 Stock	切削直徑		標準全長		價格 Price
		DC	APMX	DCON	LF	
FM-CMM4060	●	6	15	6	50	
FM-CMM4080	●	8	20	8	60	
FM-CMM4100	●	10	25	10	75	
FM-CMM4120	●	12	30	12	75	
FM-CMM4120L136	●	12	36	12	75	
FM-CMM4160	●	16	48	16	100	

**RM-CMM 4000**

 粗齒 4 刃鎢鋼粗銑刀  
4 Flutes Fine Pitch & Roughing Carbide End Mill


產品型號 Model No	在庫 Stock	切削直徑		標準全長		價格 Price
		DC	APMX	DCON	LF	
RM-CMM4050	●	5	12.5	6	50	
RM-CMM4060	●	6	15	6	50	
<b>NEW</b> RM-CMM4070	●	7	17.5	8	60	
RM-CMM4080	●	8	20	8	60	
RM-CMM4100	●	10	25	10	75	
RM-CMM4120	●	12	30	12	75	
RM-CMM4120L136	●	12	36	12	75	
<b>NEW</b> RM-CMM4150	●	15	37.5	16	100	
RM-CMM4160	●	16	48	16	100	

**FM-CMM 4000、RM-CMM 4000系列切削參數**

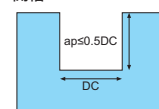
The Cutting Data For FM-CMM 4000 vs RM-CMM 4000 Series

 被加工材質 Material: **鋼 Steel** (Blue), **不鏽鋼 Stainless steel** (Yellow), **鑄鐵 Cast Iron** (Red)

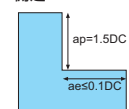
直徑 (mm) Shank	6	8	10	12	16	
轉速 n (min)	3100	2300	1900	1600	1200	
進給速度 Vf (mm/min)	開槽 Slotted	120	120	120	120	135
	側邊 Side	325	375	375	275	200

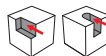
**切削深度 Cutting depth**

開槽 Slotted



側邊 Side


 ap : 軸向切削深度 Axial depth of cutting  
 ae : 徑向切削深度 Radial depth of cutting  
 DC : 刃徑 Diameter of cutting



產品型號 Model No	在庫 Stock	切削直徑	切刃長度	柄部直徑	標準全長	刃數	價格 Price
		DC	APMX	DCON	LF	CICT	
CFM-CWM8040	●	4	12	4	50	8	
CFM-CWM12060	●	6	18	6	50	12	
CFM-CWM11060L124		6	24	6	50	11	
CFM-CWM14080L125	●	8	25	8	60	14	
CFM-CWM16100	●	10	30	10	75	16	
CFM-CWM17120L132		12	32	12	100	17	

## CFM-CWM系列切削參數

The Cutting Data For CFM-CWM Series

被加工材質  
Material

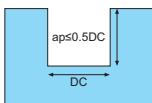
玻璃纖維  
Glass Fiber

碳纖維  
Carbon Fiber

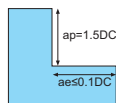
直徑 (mm) Shank	4	6	8	10	12	
轉速 n (min)	6370	4250	3190	2550	2130	
進給速度 (mm/min) Vf	開槽 Slotted	510	470	450	410	360
	側邊 Side	1020	940	900	820	730

### 切削深度 Cutting depth

開槽 Slotted



側邊 Side



ap : 軸向切削深度 Axial depth of cutting  
ae : 徑向切削深度 Radial depth of cutting  
DC : 刃徑 Diameter of cutting

**S-EMB 2000**

 微小徑球頭 2 刃鎢鋼立銼刀  
Micro Diameter Carbide 2 Flutes Ball Nose End Mill

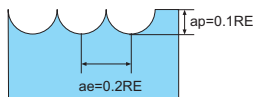

產品型號 Model No	在庫 Stock	刃角 R RE	切削直徑 DC	切刃長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
S-EMB2003	●	0.15	0.3	0.6	4	50	
S-EMB2004	●	0.2	0.4	0.8	4	50	
S-EMB2005	●	0.25	0.5	1	4	50	
S-EMB2006	●	0.3	0.6	1.2	4	50	
S-EMB2007	●	0.35	0.7	1.4	4	50	
S-EMB2008	●	0.4	0.8	1.6	4	50	
S-EMB2009	●	0.45	0.9	1.8	4	50	

**S-EMB 2000 系列切削參數**

The Cutting Data For S-EMB 2000 Series

 被加工材質 Material: **鋼 Steel**, **不鏽鋼 Stainless steel**, **鑄鐵 Cast Iron**

直徑 (mm) Shank	4
轉速 n (min)	6400
進給速度 Vf (mm/min)	235

**切削深度 Cutting depth**


$a_p$  : 軸向切削深度 Axial depth of cutting  
 $a_e$  : 徑向切削深度 Radial depth of cutting  
 RE : 刃角 R R Edge Angle



# S-EMB 2000L2

微小徑長頸短刃球頭2刃鎢鋼立銼刀  
Micro Diameter Long Neck Short Flute Ball Nose  
2 Flutes Carbide End Mill



產品型號 Model No	在庫 Stock	刃角R RE	切削直徑 DC	切刃長度 APMX	柄部直徑 DCON	頸徑 DN	可使用長度 LU	標準全長 LF	價格 Price
S-EMB2004L202		0.2	0.4	0.32	4	0.37	2	50	
S-EMB2004L204		0.2	0.4	0.32	4	0.37	4	50	
S-EMB2005L202		0.25	0.5	0.4	4	0.46	2	50	
S-EMB2005L204	●	0.25	0.5	0.4	4	0.46	4	50	
S-EMB2005L206	●	0.25	0.5	0.4	4	0.46	6	50	
S-EMB2006L202		0.3	0.6	0.48	4	0.56	2	50	
S-EMB2006L204		0.3	0.6	0.48	4	0.56	4	50	
S-EMB2006L206		0.3	0.6	0.48	4	0.56	6	50	
S-EMB2006L208	●	0.3	0.6	0.48	4	0.56	8	50	
S-EMB2008L203	●	0.4	0.8	0.64	4	0.76	3	50	
S-EMB2008L204		0.4	0.8	0.64	4	0.76	4	50	
S-EMB2008L206		0.4	0.8	0.64	4	0.76	6	50	
S-EMB2008L208		0.4	0.8	0.64	4	0.76	8	50	
S-EMB2008L210		0.4	0.8	0.64	4	0.76	10	50	

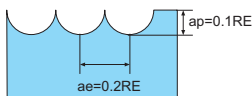
## S-EMB 2000L2系列切削參數

The Cutting Data For S-EMB 2000L2 Series

被加工材質 Material 鋼 Steel 不鏽鋼 Stainless steel 鑄鐵 Cast Iron

直徑 (mm) Shank	4
轉速 n (min)	6400
進給速度 Vf (mm/min)	235

### 切削深度 Cutting depth



ap : 軸向切削深度 Axial depth of cutting  
ae : 徑向切削深度 Radial depth of cutting  
RE : 刃角R R Edge Angle

# S-EPB2000 series

## 微小徑 2 刃 球頭鎢鋼立銑刀

### Micro Diameter Carbide 2 Flutes Ball Nose End Mill



適用於專業醫療設備、電子、化學及工業等精密細小零件之製造加工  
Apply on manufacturing and processing of precision small parts such as professional medical equipment, electronics, chemicals and industry.



#### 全新 P500 材質 高耐磨 高韌性

New P500 series With high abrasion resistance

可加工高硬度 HRC 50°~60°，螺旋角採 35° 設計

High Ductility Material, Helix Angle 35° Design.

專用特殊塗層

For the particular coating with

合金鋼  
Alloy Steel

碳鋼  
Carbon Steel

- ▶ 微小徑設計有利於狹小孔徑空間工件加工需求，提供精確的加工精準度和良好表面光潔度  
Micro-diameter design is beneficial to the processing requirements of cutting, specially in processing in small space, it provides precise accuracy of machining and excellent surface finish.
- ▶ 採用全新進口棒材，加工工件硬度 HRC60 度以下  
Using the latest import carbide rod, it can process on hardness up to 60HRC.
- ▶ 採用國際公差標準 h5，公差範圍控制在  $\mu$  級精度  
International tolerance standard h5, tolerance range control at  $\mu$  level accuracy.
- ▶ 採用圓形刃帶，大幅提高了耐震性和耐崩損性，通過減少切削阻力，實現了高速高進給加工  
Using round flute improve the shock resistance and resistance to collapse.  
By reducing cutting resistance to achieve high speed and feeding processing.

#### S-EPB 2000

微小徑 2 刃球頭鎢鋼立銑刀  
Micro Diameter 2 Flutes Ball Nose Carbide End Mill



新品上市  
New Arrival



產品型號 Model No	在庫 Stock	刃角 R RE	切削直徑 DC	切削長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
S-EPB2003		0.15	0.3	0.6	4	50	
S-EPB2004	●	0.2	0.4	0.8	4	50	
S-EPB2005		0.25	0.5	1	4	50	
S-EPB2006	●	0.3	0.6	1.2	4	50	
S-EPB2007		0.35	0.7	1.4	4	50	
S-EPB2008	●	0.4	0.8	1.6	4	50	
S-EPB2009		0.45	0.9	1.8	4	50	

#### S-EPB 2000 系列切削參數

The Cutting Data For S-EPB 2000 Series

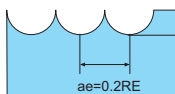
被加工材質

合金鋼

碳鋼

直徑 (mm) Shank	4
轉速 n (min)	6400
進給速度 Vf (mm/min)	235

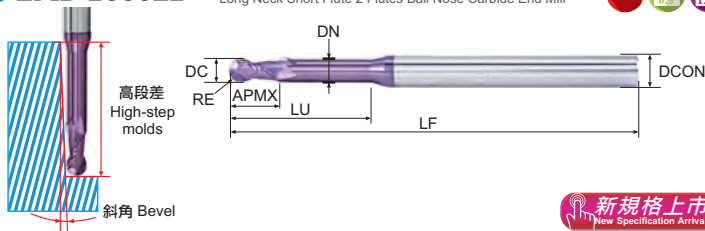
切削深度 Cutting depth



ap: 軸向切削深度 Axial depth of cutting  
ae: 徑向切削深度 Radial depth of cutting  
RE: 刃角 R Edge Angle

EMB 2000L2

長頸球頭 2 刃鑄鋼立銼刀  
Long Neck Short Flute 2 Flutes Ball Nose Carbide End Mill



新規格上市  
New Specification Arrival



產品型號 Model No	在庫 Stock	刃角 R RE	切削直徑 DC	切刃長度 APMX	柄部直徑 DCON	頸徑 DN	可使用長度 LU	標準全長 LF	價格 Price
EMB2010L204		0.5	1	0.8	4	0.95	4	50	
EMB2010L206	●	0.5	1	0.8	4	0.95	6	50	
EMB2010L208	●	0.5	1	0.8	4	0.95	8	50	
EMB2010L210	●	0.5	1	0.8	4	0.95	10	50	
EMB2010L212	●	0.5	1	0.8	4	0.95	12	50	
EMB2015L204	●	0.75	1.5	1.2	4	1.45	4	50	
EMB2015L206	●	0.75	1.5	1.2	4	1.45	6	50	
EMB2015L208	●	0.75	1.5	1.2	4	1.45	8	50	
EMB2015L210	●	0.75	1.5	1.2	4	1.45	10	50	
EMB2015L212	●	0.75	1.5	1.2	4	1.45	12	50	
EMB2020L206		1	2	1.6	4	1.94	6	50	
EMB2020L208	●	1	2	1.6	4	1.94	8	50	
EMB2020L210		1	2	1.6	4	1.94	10	50	
EMB2020L212	●	1	2	1.6	4	1.94	12	50	
NEW EMB2020L212E1	●	1	2	1.6	4	1.94	12	75	
EMB2020L214		1	2	1.6	4	1.94	14	50	
EMB2020L216	●	1	2	1.6	4	1.94	16	50	
NEW EMB2020L216E1	●	1	2	1.6	4	1.94	16	75	
EMB2030L208	●	1.5	3	2.4	4	2.85	8	50	
EMB2030L210	●	1.5	3	2.4	4	2.85	10	50	
EMB2030L212	●	1.5	3	2.4	4	2.85	12	50	
EMB2030L214	●	1.5	3	2.4	4	2.85	14	50	
EMB2030L216	●	1.5	3	2.4	4	2.85	16	50	
EMB2030L220	●	1.5	3	2.4	4	2.85	20	50	
EMB2040L212		2	4	3.2	4	3.8	12	50	
EMB2040L214		2	4	3.2	4	3.8	14	50	
EMB2040L216		2	4	3.2	4	3.8	16	50	
EMB2040L220		2	4	3.2	4	3.8	20	50	
EMB2040L225		2	4	3.2	4	3.8	25	50	
EMB2060L220		3	6	4.8	6	5.9	20	50	
EMB2060L235HD8	●	3	6	12	8	5.9	35	100	
EMB2060L240MD8	●	3	6	12	8	5.9	40	150	

## EMB 2000L2系列切削參數

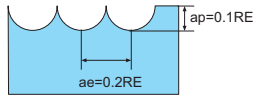
### The Cutting Data For EMB 2000L2 Series

被加工材質 Material

鋼 Steel      不鏽鋼 Stainless steel      鑄鐵 Cast Iron

直徑 (mm) Shank	4	6	8
轉速 n (min)	6400	4300	3200
進給速度 Vf (mm/min)	235	245	275

#### 切削深度 Cutting depth



ap : 軸向切削深度 Axial depth of cutting  
 ae : 徑向切削深度 Radial depth of cutting  
 RE : 刃角 R R Edge Angle

EMB 2000

球頭 2 刃鑄鋼立銼刀  
2 Flutes Ball Nose Carbide End Mill



新規格上市  
New Specification Arrival



產品型號 Model No	在庫 Stock	刃角 R RE	切削直徑 DC	切刃長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
EMB2010	●	0.5	1	2	4	50	
NEW EMB2010L206	●	0.5	1	6	4	50	
NEW EMB2010L208	●	0.5	1	8	4	50	
NEW EMB2010D6	●	0.5	1	2	6	50	
NEW EMB2010E1D6	●	0.5	1	2	6	75	
EMB2015	●	0.75	1.5	3	4	50	
EMB2015D6	●	0.75	1.5	3	6	50	
EMB2015E1D6	●	0.75	1.5	3	6	75	
EMB2020	●	1	2	4	4	50	
EMB2020D6	●	1	2	4	6	50	
EMB2020E1D6	●	1	2	4	6	75	
EMB2025	●	1.25	2.5	5	4	50	
EMB2025D6	●	1.25	2.5	5	6	50	
EMB2030	●	1.5	3	6	4	50	
NEW EMB2030D3	●	1.5	3	6	3	50	
EMB2030D6	●	1.5	3	6	6	50	
EMB2030E1D6	●	1.5	3	6	6	75	
EMB2032	●	1.6	3.2	6.4	4	50	
EMB2035	●	1.75	3.5	7	4	50	
EMB2035D6	●	1.75	3.5	7	6	50	
EMB2035E1	●	1.75	3.5	7	4	75	
EMB2035E1D6	●	1.75	3.5	7	6	75	
EMB2040	●	2	4	8	4	50	
EMB2040D6	●	2	4	8	6	50	
EMB2040E1	●	2	4	8	4	75	
EMB2040E1D6	●	2	4	8	6	75	
EMB2040H	●	2	4	8	4	100	
EMB2040HD6	●	2	4	8	6	100	
EMB2042	●	2.1	4.2	8.4	6	50	
EMB2049	●	2.45	4.9	9.8	6	50	
EMB2050	●	2.5	5	10	6	50	
EMB2050E1	●	2.5	5	10	6	75	
EMB2050H	●	2.5	5	10	6	100	

※ 請接下頁。 ※ Continued on next page.

產品型號 Model No	在庫 Stock	刃角 R	切削直徑	切刃長度	柄部直徑	標準全長	價格
		RE	DC	APMX	DCON	LF	Price
<b>NEW</b> EMB2056	●	2.8	5.6	11.2	6	50	
EMB2060	●	3	6	12	6	50	
EMB2060E1	●	3	6	12	6	75	
EMB2060H	●	3	6	12	6	100	
EMB2060M	●	3	6	12	6	150	
EMB2065	●	3.25	6.5	13	8	60	
EMB2069	●	3.45	6.9	13.8	8	60	
<b>NEW</b> EMB2070	●	3.5	7	14	8	60	
EMB2080	●	4	8	16	8	60	
EMB2080E1	●	4	8	16	8	75	
EMB2080H	●	4	8	16	8	100	
EMB2080M	●	4	8	16	8	150	
EMB2080R	●	4	8	16	8	200	
<b>NEW</b> EMB2090	●	4.5	9	18	10	75	
EMB2100	●	5	10	20	10	75	
EMB2100H	●	5	10	20	10	100	
EMB2100M	●	5	10	20	10	150	
EMB2100R	●	5	10	20	10	200	
EMB2120	●	6	12	24	12	75	
EMB2120H	●	6	12	24	12	100	
EMB2120M	●	6	12	24	12	150	
EMB2120R	●	6	12	24	12	200	
EMB2160	●	8	16	32	16	100	
EMB2160M	●	8	16	32	16	150	
EMB2160R	●	8	16	32	16	200	
EMB2200	●	10	20	40	20	100	
EMB2200M	●	10	20	40	20	150	
EMB2200R	●	10	20	40	20	200	

### EMB 2000系列切削參數

The Cutting Data For EMB 2000 Series

被加工材質

Material

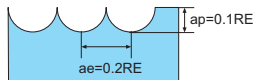
鋼  
Steel

不鏽鋼  
Stainless steel

鑄鐵  
Cast iron

直徑 (mm) Shank	4	6	8	10	12	16	20
轉速 n (min)	6400	4300	3200	2600	2200	1600	1300
進給速度 Vf (mm/min)	235	245	275	275	255	230	205

切削深度 Cutting depth



ap : 軸向切削深度 Axial depth of cutting  
 ae : 徑向切削深度 Radial depth of cutting  
 RE : 刃角 R R Edge Angle

# 2刃球頭鎢鋼端銑刀

## 2 Flutes Ball Nose Carbide End Mill



### EEB 2000 series

全新材料質抗震性佳  
The new material has excellent shock resistance

全新E300高耐磨 高韌性材質可加工高硬度HRC55°~65°  
New E300 With High Abrasion Resistance  
High ductility material HRC55°~65°

專用特殊塗層 For the particular coating with

合金鋼  
Alloy Steel

碳鋼  
Carbon Steel

全新材料質抗震性佳，減少刀具因震動的崩損，擁有優良加工表面，提升刀具加工壽命，採用國際公差標準h5，公差範圍控制在 $\mu$ 級精度，採用圓形刃帶大幅提高了耐震性和耐崩損性，通過減少切削阻力，實現了高速進給加工。

The new material has excellent shock resistance, reducing tool damage due to vibration conducive to high quality machining surfaces and improved tool life, international tolerance standard h5, tolerance range control at  $\mu$  level accuracy, using round flute improve the shock resistance and resistance to collapse, by reducing cutting resistance to achieve high speed and feeding processing.

球頭2刃鎢鋼立銑刀  
2 Flutes Ball Nose Carbide End Mill



新品上市  
New Arrival



產品型號 Model No	在庫 Stock	刃角R RE	切削直徑 DC	切刃長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
EEB2020		1	2	4	4	50	
EEB2030		1.5	3	6	4	50	
EEB2040		2	4	8	4	50	
EEB2050	●	2.5	5	10	6	50	
EEB2060	●	3	6	12	6	50	
EEB2080	●	4	8	16	8	60	
EEB2100		5	10	20	10	75	
EEB2120		6	12	24	12	75	

NEW  
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### EEB 2000系列切削參數

The Cutting Data For EEB 2000 Series

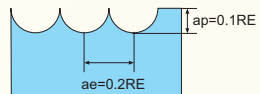
被加工材質  
Material

合金鋼  
Alloy Steel

碳鋼  
Carbon Steel

切削深度 Cutting depth

直徑 (mm) Shank	4	6	8	10	12
轉速 n (min)	6400	4300	3200	2600	2200
進給速度 Vf (mm/min)	235	245	275	275	255



ap：軸向切削深度 Axial depth of cutting  
ae：徑向切削深度 Radial depth of cutting  
RE：刃角R R Edge Angle

**EPB 2000** 球頭 2 刃鎢鋼立銼刀  
2 Flutes Ball Nose Carbide End Mill


**新規格上市**  
New Specification Arrival


產品型號 Model No	在庫 Stock	刃角 R RE	切削直徑 DC	切刃長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
NEW EPB2010	●	0.5	1	2	4	50	
NEW EPB2015	●	0.75	1.5	3	4	50	
NEW EPB2020	●	1	2	4	4	50	
EPB2030	●	1.5	3	6	4	50	
NEW EPB2030D3	●	1.5	3	6	3	50	
NEW EPB2030D6	●	1.5	3	6	6	50	
EPB2040	●	2	4	8	4	50	
EPB2050		2.5	5	10	6	50	
EPB2060	●	3	6	12	6	50	
EPB2060E1	●	3	6	12	6	75	
NEW EPB2060H	●	3	6	12	6	100	
EPB2080	●	4	8	16	8	60	
EPB2100	●	5	10	20	10	75	
EPB2100H	●	5	10	20	10	100	
EPB2100M	●	5	10	20	10	150	
EPB2120	●	6	12	24	12	75	
EPB2120L150M	●	6	12	50	12	150	
EPB2160		8	16	32	16	100	
EPB2200		10	20	40	20	100	

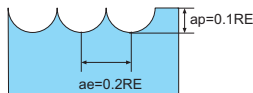
**EPB 2000系列切削參數**  
The Cutting Data For EPB 2000 Series

 被加工材質  
Material

 合金鋼  
Alloy Steel

 碳鋼  
Carbon Steel

直徑 (mm) Shank	4	6	8	10	12	16	20
轉速 n (min)	6400	4300	3200	2600	2200	1600	1300
進給速度 Vf (mm/min)	235	245	275	275	255	230	205

**切削深度 Cutting depth**


ap : 軸向切削深度 Axial depth of cutting  
 ae : 徑向切削深度 Radial depth of cutting  
 RE : 刃角 R R Edge Angle



EPB 4000

球頭 4 刃鎢鋼立銼刀  
4 Flutes Ball Nose Carbide End Mill



新規格上市  
New Specification Arrival



產品型號 Model No	在庫 Stock	刃角 R RE	切削直徑 DC	切刀長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
EPB4020	●	1	2	4	4	50	
EPB4030		1.5	3	6	4	50	
EPB4040	●	2	4	8	4	50	
EPB4050	●	2.5	5	10	6	50	
EPB4060	●	3	6	12	6	50	
NEW EPB4065	●	3.25	6.5	13	8	60	
NEW EPB4070L1175	●	3.5	7	17.5	8	60	
EPB4080	●	4	8	16	8	60	
EPB4100	●	5	10	20	10	75	
EPB4120	●	6	12	24	12	75	
EPB4160		8	16	32	16	100	
EPB4200		10	20	40	20	100	

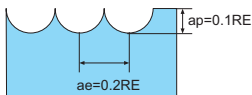
EPB 4000系列切削參數

The Cutting Data For EPB 4000 Series

被加工材質 Material **合金鋼 Alloy Steel** **碳鋼 Carbon Steel**

直徑 (mm) Shank	4	6	8	10	12	16	20
轉速 n (min)	6400	4300	3200	2600	2200	1600	1300
進給速度 Vf (mm/min)	470	490	550	550	510	460	410

切削深度 Cutting depth



ap : 軸向切削深度 Axial depth of cutting  
ae : 徑向切削深度 Radial depth of cutting  
RE : 刃角 R Edge Angle

# EWB2000 series

## 鋁用球頭2刃鎢鋼端銑刀 For Aluminum Ball Nose 2 Flute Carbide End Mill

採用螺旋角35°設計  
Helix angle 35° design.

通過減少切削阻力  
實現了高速高進給加工  
By reducing cutting  
resistance to achieve  
high speed and feeding  
processing.



採用全新進口棒材，加工工件硬度HRC55度以下。

Using the latest import carbide rod, it can process on hardness up to 55HRC.

採用國際公差標準h5，公差範圍控制在μ級精度。  
International tolerance standard h5, tolerance range control at μ level accuracy.

採用圓形刃帶，大幅提高了耐震性和耐崩損性。  
Using round flute, improve the shock resistance and resistance to collapse.

適用材質  
Applicable for Aluminum Copper Plastic



### EWB 2000 鋁用球頭2刃鎢鋼立銑刀 For Aluminum Ball Nose 2 Flutes Carbide End Mill



新品上市  
New Arrival



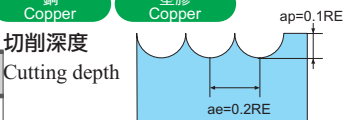
產品型號 Model No	在庫 Stock	刃角R RE	切削直徑 DC	切刃長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
EWB2010		0.5	1	2	4	50	
EWB2015		0.75	1.5	3	4	50	
EWB2020	●	1	2	4	4	50	
EWB2030	●	1.5	3	6	4	50	
EWB2040	●	2	4	8	4	50	
EWB2050		2.5	5	10	6	50	
EWB2060	●	3	6	12	6	50	
EWB2060E1		3	6	12	6	75	
EWB2080		4	8	16	8	60	
EWB2100		5	10	20	10	75	
EWB2100H		5	10	20	10	100	
EWB2120		6	12	24	12	75	

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### EWB 2000系列切削參數 The Cutting Data For EWB 2000 Series

被加工材質 Material  
鋁合金 Aluminum  
銅 Copper  
塑膠 Copper

直徑 (mm) Shank	4	6	8	10	12
轉速 n (min)	6400	4300	3200	2600	2200
進給速度 Vf (mm/min)	235	245	275	275	255



ap: 軸向切削深度 Axial depth of cutting  
ae: 徑向切削深度 Radial depth of cutting  
RE: 刃角 R Edge Angle

EMB 4000

球頭 4 刃鎢鋼立銼刀  
4 Flutes Ball Nose Carbide End Mill



新規格上市  
New Specification Arrival



產品型號 Model No	在庫 Stock	刃角 R RE	切削直徑 DC	切刃長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
EMB4010		0.5	1	2	4	50	
EMB4015		0.75	1.5	3	4	50	
EMB4020	●	1	2	4	4	50	
EMB4030	●	1.5	3	6	4	50	
EMB4035	●	1.75	3.5	7	4	50	
EMB4035D6	●	1.75	3.5	7	6	50	
EMB4040	●	2	4	8	4	50	
NEW EMB4040D6	●	2	4	8	6	50	
NEW EMB4040E1	●	2	4	8	4	75	
NEW EMB4040H	●	2	4	8	4	100	
EMB4045	●	2.25	4.5	9	6	50	
EMB4050	●	2.5	5	10	6	50	
EMB4060	●	3	6	12	6	50	
EMB4060E1	●	3	6	12	6	75	
EMB4060H	●	3	6	12	6	100	
NEW EMB4070L1175	●	3.5	7	17.5	8	60	
EMB4080	●	4	8	16	8	60	
EMB4080E1	●	4	8	16	8	75	
EMB4080H	●	4	8	16	8	100	
NEW EMB4080M	●	4	8	16	8	150	
EMB4100	●	5	10	20	10	75	
EMB4100H	●	5	10	20	10	100	
EMB4100M	●	5	10	20	10	150	
EMB4120	●	6	12	24	12	75	
EMB4120H	●	6	12	24	12	100	
EMB4120M	●	6	12	24	12	150	
EMB4160	●	8	16	32	16	100	
EMB4160M	●	8	16	32	16	150	
EMB4200	●	10	20	40	20	100	

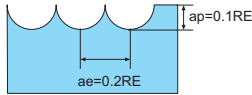
## EMB 4000系列切削參數

### The Cutting Data For EMB 4000 Series

 被加工材質 Material
 鋼 Steel
不鏽鋼 Stainless steel
鑄鐵 Cast Iron

直徑 (mm) Shank	4	6	8	10	12	16	20
轉速 n (min)	6400	4300	3200	2600	2200	1600	1300
進給速度 Vf (mm/min)	470	490	550	550	510	450	410

#### 切削深度 Cutting depth



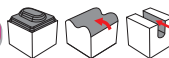
ap : 軸向切削深度 Axial depth of cutting  
 ae : 徑向切削深度 Radial depth of cutting  
 RE : 刃角R R Edge Angle

## DMB 2000

球頭 2 刃鑄鋼立銼刀  
2 Flutes Ball Nose Carbide End Mill



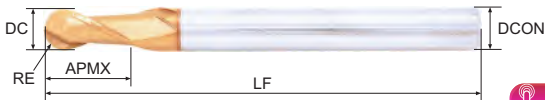
新規格上市  
New Specification Arrival



產品型號 Model No	在庫 Stock	刃角 R RE	切削直徑 DC	切刃長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
DMB2030	●	1.5	3	6	4	50	
DMB2030D6	●	1.5	3	6	6	50	
NEW DMB2040	●	2	4	8	4	50	
DMB2045	●	2.25	4.5	9	6	50	
DMB2050	●	2.5	5	10	6	50	
NEW DMB2060	●	3	6	12	6	50	
NEW DMB2070	●	3.5	7	14	8	60	
DMB2080	●	4	8	16	8	60	
DMB2090	●	4.5	9	18	10	75	
DMB2100	●	5	10	20	10	75	
DMB2120	●	6	12	24	12	75	

## DPB 2000

球頭 2 刃鑄鋼立銼刀  
2 Flutes Ball Nose Carbide End Mill



新規格上市  
New Specification Arrival



產品型號 Model No	在庫 Stock	刃角 R RE	切削直徑 DC	切刃長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
NEW DPB2060	●	3	6	12	6	50	
NEW DPB2060H	●	3	6	12	6	100	
NEW DPB2100H	●	5	10	20	10	100	

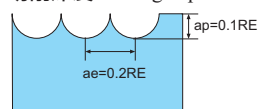
## DMB 2000、DPB 2000 系列切削參數

The Cutting Data For DMB 2000、DPB 2000 Series

被加工材質 Material: **鋼 Steel** **不鏽鋼 Stainless steel** **鑄鐵 Cast Iron** **合金鋼 Alloy Steel** **碳鋼 Carbon Steel**

直徑 (mm) Shank	4	6	8	10	12	16	20
轉速 n (min)	6400	4300	3200	2600	2200	1600	1300
進給速度 Vf (mm/min)	235	245	275	275	255	230	205

切削深度 Cutting depth



ap : 軸向切削深度 Axial depth of cutting  
ae : 徑向切削深度 Radial depth of cutting  
RE : 刃角 R R Edge Angle

# 長頸型鎢鋼球刀

適用於高段差模具或曲面仿型加工

尺寸穩定、精度高

Long-necked ball nose end mill is suitable for high-step molds or workpiece surface profiling, with stable dimensions and high precision.

- ✓ 仿型銑削  
Profile Milling
- ✓ 曲面銑削  
Surface Milling
- ✓ R溝槽  
R Slot

**DWB2000L2 series**

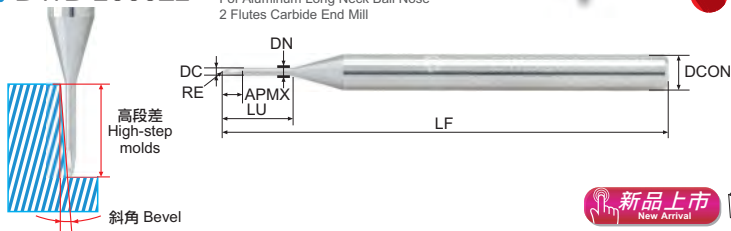
採用螺旋角30°設計  
Helix Angle 30° Design.

## 鋁用長頸型球頭2刃鎢鋼端銑刀

For Aluminum Long Neck Ball Nose  
2 Flutes Carbide End Mill

### DWB 2000L2

鋁用長頸球頭2刃鎢鋼立銑刀  
For Aluminum Long Neck Ball Nose  
2 Flutes Carbide End Mill



產品型號 Model No	在庫 Stock	刃角 R RE	切削直徑 DC	切刃長度 APMX	柄部直徑 DCON	頸徑 DN	可使用長度 LU	標準全長 LF	價格 Price
DWB2010L204	●	0.5	1	0.8	4	0.95	4	50	
DWB2010L206	●	0.5	1	0.8	4	0.95	6	50	
DWB2010L208	●	0.5	1	0.8	4	0.95	8	50	

### DWB 2000L2系列切削參數

The Cutting Data For DWB 2000L2 Series

被加工材質  
Material

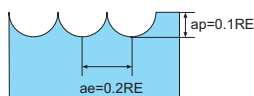
鋁合金  
Aluminum

銅  
Copper

塑膠  
Plastic

直徑 (mm) Shank	4
轉速 n (min)	10500
進給速度 Vf (mm/min)	1260

切削深度 Cutting depth



ap : 軸向切削深度 Axial depth of cutting

ae : 徑向切削深度 Radial depth of cutting

RE : 刃角 R R Edge Angle

PA-DPB series

# 鎢鋼酒桶端銑刀

## Arc Ball Carbide End Mill

全新矽鈦材質，高耐磨、高韌性  
可切削硬度HRC55°~60°

Brand New Titanium material, high wear resistance, high toughness cutting machinable obtain to HRC55°~60°.

### 進口五軸機加工研磨、鎢鋼弧型球刀

Imported Five-axis machine for grinding carbide arc ball tools.

提供更多軸向、更大的切深加工，有效提高加工效率、表面加工粗度及刀具加工壽命、節省加工成本。

To provide more axial depth cutting, and have processing area increased effectively, effectively enhancing processing efficiency, surface roughness and tool life, and saving processing costs, all having excellent performance.

### 模具、航鈦渦輪葉片及葉輪五軸加工最佳利器

It is the best tool for molds, aerospace turbine blades and impeller on Five-axis machining.

依幾何不同刀刃設計  
應用在鋁合、高溫合金加工  
也有極優秀的表現  
適合中、精度加工。

It also has excellence performance in aluminum alloy and high temperature alloy based on different geometric blades design, and suitable for medium and high-precision machining.

RE1



RE2

螺旋角  
採用30°設計  
Helix angle  
30° design.

拋物線銑削  
Parabolic Milling

使加工面積有效增加  
to have processing area  
increased effectively!!!

特殊弧型加大容屑槽，排屑表現更加順暢  
Special arc-shaped chip flute, chip removal performance is smoother.

**PA-DPB** 鎢鋼酒桶端銑刀  
 Barrel Tungsten Carbide End Mill


**新品上市**  
 New Arrival

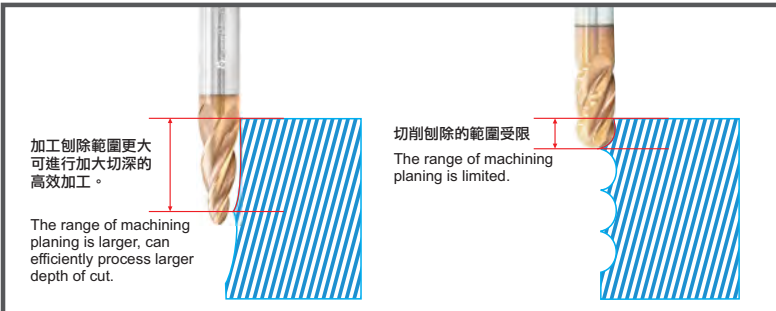

產品型號 Model No	在庫 Stock	刃角 R RE1	刃角 R RE2	切削直徑 DC	切刃長度 APMX	柄部直徑 DCON	標準全長 LF	刃數 CICT	價格 Price
<b>NEW</b> PA-DPB4060L1140R45	●	1	45	6	14	6	50	4	
<b>NEW</b> PA-DPB4060L1205R100	●	1	100	6	20.5	6	50	4	
<b>NEW</b> PA-DPB6060L1140R45	●	1	45	6	14	6	50	6	
<b>NEW</b> PA-DPB4080L1160R45		1.5	45	8	16	8	60	4	
<b>NEW</b> PA-DPB4080L1220R95	●	1.5	95	8	22	8	60	4	
<b>NEW</b> PA-DPB6080L1160R45	●	1.5	45	8	16	8	60	6	
<b>NEW</b> PA-DPB4100L1245R90	●	2	90	10	24.5	10	75	4	
<b>NEW</b> PA-DPB6100L1165R40	●	2	40	10	16.5	10	75	6	
<b>NEW</b> PA-DPB6100L1175R40		2	40	10	17.5	10	75	6	
<b>NEW</b> PA-DPB4120L1270R85		2	85	12	27	12	75	4	
<b>NEW</b> PA-DPB6120L1185R40	●	2	40	12	18.5	12	75	6	

**PA-DPB系列切削參數**

The Cutting Data For PA-DPB Series

 被加工材質 Material **合金鋼 Alloy Steel** **碳鋼 Carbon Steel**

刃角 R R Angle	1	1.5	2	切削直徑 DC Diameter of Cutting	6	8	10	12
轉速 n (min)	9500	6400	4800	轉速 n (min)	9500	7200	5700	4800
進給速度 Vf (mm/min)	3000	2000	2300	進給速度 Vf (mm/min)	5200	3900	3100	2600

**拋物線銑削加工面積範圍比較 Comparison of the machining area range of parabolic milling**






產品型號 Model No	在庫 Stock	刃角R RE	切削直徑 DC	頸徑 DN	切刃長度 APMX	柄部直徑 DCON	可使用長度 LU	標準全長 LF	價格 Price
EPU4020L1016L204	●	1	2	1.5	1.63	4	4	50	
EPU4030L1024L206		1.5	3	2.3	2.46	4	6	50	
EPU4040L1033L208	●	2	4	3	3.3	4	8	50	
EPU4050L1041L210	●	2.5	5	3.65	4.1	6	10	50	
EPU4060L1049L212	●	3	6	4.6	4.93	6	12	50	
EPU4080L1065L216	●	4	8	5.9	6.58	8	16	60	
EPU4100L1082L220	●	5	10	7.6	8.22	10	20	75	
EPU4120L1098L224	●	6	12	9.2	9.86	12	24	75	
EPU4120L1100L221		6	12	9.2	10	12	21	75	
EPU4160L1133L232		8	16	12.2	13.37	16	32	100	

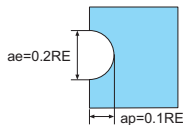
## EPU 4000L1系列切削參數

The Cutting Data For EPU 4000 Series

被加工材質 Material 合金鋼 Alloy Steel 碳鋼 Carbon Steel

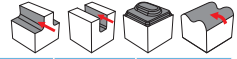
刃角R R Angle	1	1.5	2	2.5	3	4	5	6	8
轉速 n (min)	12700	8500	6400	5100	4300	3200	2600	2200	1600
進給速度 Vf (mm/min)	450	450	470	470	490	500	550	510	450

### 切削深度 Cutting depth



ap : 軸向切削深度 Axial depth of cutting  
ae : 徑向切削深度 Radial depth of cutting  
RE : 刃角R R Edge Angle

**DMR 2000R00L2**

 長頸型圓鼻 2 刃鎢鋼立銑刀  
 Long Neck 2 Flutes Corner Radius Carbide End Mill


產品型號 Model No	在庫 Stock	刃角 R RE	切削直徑 DC	切刃長度 APMX	柄部直徑 DCON	可使用長度 LU	標準全長 LF	價格 Price
DMR2030R02L207		0.2	3	3	4	7.5	50	
DMR2030R05L207		0.5	3	3	4	7.5	50	
DMR2040R02L210		0.2	4	4	4	10	50	
DMR2040R05L210		0.5	4	4	4	10	50	
DMR2060R02L215		0.2	6	6	6	15	50	
DMR2060R05L215		0.5	6	6	6	15	50	
DMR2060R10L215		1	6	6	6	15	50	
DMR2080R05L220		0.5	8	10	8	20	60	
DMR2080R10L220		1	8	10	8	20	60	
DMR2100R05L225		0.5	10	12	10	25	75	
DMR2100R10L225		1	10	12	10	25	75	
DMR2120R05L230		0.5	12	14	12	30	75	
DMR2120R10L230		1	12	14	12	30	75	

**DMR 2000R00L2系列切削參數**

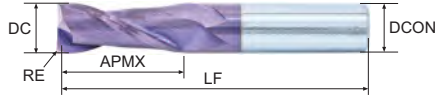
The Cutting Data For DMR 2000R00L2 Series

 被加工材質 Material 鋼  
Steel 不鏽鋼  
Stainless steel 鑄鐵  
Cast Iron

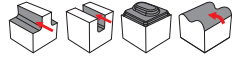
直徑 (mm) Shank	4	6	8	10	12
轉速 n (min)	6400	4300	3200	2600	2200
進給速度 Vf (mm/min)	260	280	285	270	270

DMR 2000R00

圓鼻 2 刃鎢鋼立銼刀  
2 Flutes Corner Radius Carbide End Mill



新規格上市  
New Specification Arrival



產品型號 Model No	在庫 Stock	刃角 R RE	切削直徑 DC	切削長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
DMR2010R02	●	0.2	1	2.5	4	50	
DMR2010R02E1D6	●	0.2	1	2.5	6	75	
DMR2015R02	●	0.2	1.5	3.75	4	50	
DMR2015R02E1D6	●	0.2	1.5	3.75	6	75	
DMR2020R02	●	0.2	2	5	4	50	
DMR2020R05	●	0.5	2	5	4	50	
DMR2020R05E1D6	●	0.5	2	5	6	75	
DMR2025R02	●	0.2	2.5	6.25	4	50	
DMR2030R02	●	0.2	3	7.5	4	50	
DMR2030R02E1	●	0.2	3	7.5	4	75	
DMR2030R05	●	0.5	3	7.5	4	50	
DMR2030R05E1	●	0.5	3	7.5	4	75	
DMR2030R10	●	1	3	7.5	4	50	
DMR2030R10D6	●	1	3	7.5	6	50	
DMR2030R10E1	●	1	3	7.5	4	75	
DMR2040R02	●	0.2	4	10	4	50	
DMR2040R02E1	●	0.2	4	10	4	75	
DMR2040R02H	●	0.2	4	10	4	100	
DMR2040R05	●	0.5	4	10	4	50	
DMR2040R05E1	●	0.5	4	10	4	75	
DMR2040R05H	●	0.5	4	10	4	100	
DMR2040R10	●	1	4	10	4	50	
DMR2040R10E1	●	1	4	10	4	75	
DMR2040R10H	●	1	4	10	4	100	
DMR2040R15D6	●	1.5	4	10	6	50	
DMR2060R02	●	0.2	6	15	6	50	
DMR2060R02E1	●	0.2	6	15	6	75	
DMR2060R02H	●	0.2	6	15	6	100	
DMR2060R05	●	0.5	6	15	6	50	
DMR2060R05E1	●	0.5	6	15	6	75	
DMR2060R05H	●	0.5	6	15	6	100	
DMR2060R10	●	1	6	15	6	50	
DMR2060R10E1	●	1	6	15	6	75	

※ 請接下一頁。 ※ Continued on next page.

產品型號 Model No	在庫 Stock	刃角 R	切削直徑	切刃長度	柄部直徑	標準全長	價格
		RE	DC	APMX	DCON	LF	Price
DMR2060R10H	●	1	6	15	6	100	
<b>NEW</b> DMR2060R20	●	2	6	15	6	50	
DMR2080R05	●	0.5	8	20	8	60	
DMR2080R05E1	●	0.5	8	20	8	75	
DMR2080R05H	●	0.5	8	20	8	100	
DMR2080R10	●	1	8	20	8	60	
DMR2080R10E1	●	1	8	20	8	75	
DMR2080R10H	●	1	8	20	8	100	
DMR2100R05	●	0.5	10	25	10	75	
DMR2100R05H	●	0.5	10	25	10	100	
DMR2100R10	●	1	10	25	10	75	
DMR2100R10H	●	1	10	25	10	100	
DMR2120R05	●	0.5	12	30	12	75	
DMR2120R05H	●	0.5	12	30	12	100	
DMR2120R10	●	1	12	30	12	75	
DMR2120R10H	●	1	12	30	12	100	

## DMR 2000R00系列切削參數

The Cutting Data For DMR 2000R00 Series

被加工材質  
Material

鋼  
Steel

不鏽鋼  
Stainless steel

鑄鐵  
Cast Iron

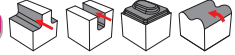
直徑 (mm) Shank	4	6	8	10	12
轉速 n (min)	6400	4300	3200	2600	2200
進給速度 Vf (mm/min)	260	280	285	270	270

DMR 4000R00

圓鼻 4 刃鎢鋼立銑刀  
4 Flutes Corner Radius Carbide End Mill



 新規格上市  
New Specification Arrival



產品型號 Model No	在庫 Stock	刃角 R RE	切削直徑 DC	切刃長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
DMR4010R02	●	0.2	1	2.5	4	50	
DMR4010R02L103	●	0.2	1	3	4	50	
DMR4015R02	●	0.2	1.5	3.75	4	50	
DMR4015R02L104	●	0.2	1.5	4	4	50	
NEW DMR4015R05	●	0.5	1.5	3.75	4	50	
DMR4020R02	●	0.2	2	5	4	50	
DMR4020R02L106	●	0.2	2	6	4	50	
DMR4020R05	●	0.5	2	5	4	50	
DMR4020R05L106	●	0.5	2	6	4	50	
DMR4025R02	●	0.2	2.5	6.25	4	50	
DMR4030R02	●	0.2	3	7.5	4	50	
DMR4030R02L106	●	0.2	3	6	4	50	
DMR4030R02L108	●	0.2	3	8	4	50	
DMR4030R02E1	●	0.2	3	7.5	4	75	
DMR4030R05	●	0.5	3	7.5	4	50	
DMR4030R05L108	●	0.5	3	8	4	50	
NEW DMR4030R05D3	●	0.5	3	7.5	3	50	
DMR4030R05E1	●	0.5	3	7.5	4	75	
DMR4030R05E1D6	●	0.5	3	7.5	6	75	
DMR4030R10	●	1	3	7.5	4	50	
DMR4030R10D6	●	1	3	7.5	6	50	
DMR4030R10E1	●	1	3	7.5	4	75	
DMR4040R02	●	0.2	4	10	4	50	
DMR4040R02E1	●	0.2	4	10	4	75	
DMR4040R02H	●	0.2	4	10	4	100	
DMR4040R05	●	0.5	4	10	4	50	
DMR4040R05E1	●	0.5	4	10	4	75	
DMR4040R05E1D6	●	0.5	4	10	6	75	
DMR4040R05H	●	0.5	4	10	4	100	
DMR4040R10	●	1	4	10	4	50	
DMR4040R10E1	●	1	4	10	4	75	
DMR4040R10H	●	1	4	10	4	100	
DMR4040R15	●	1.5	4	10	4	50	

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產品型號 Model No	在庫 Stock	刃角R RE	切削直徑 DC	切刃長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
DMR4050R05	●	0.5	5	12.5	6	50	
<b>NEW</b> DMR4050R10		1	5	12.5	6	50	
DMR4060R02	●	0.2	6	15	6	50	
DMR4060R02E1		0.2	6	15	6	75	
DMR4060R02H	●	0.2	6	15	6	100	
DMR4060R05	●	0.5	6	15	6	50	
DMR4060R05E1	●	0.5	6	15	6	75	
<b>NEW</b> DMR4060R05L110E1	●	0.5	6	10	6	75	
DMR4060R05H	●	0.5	6	15	6	100	
DMR4060R10	●	1	6	15	6	50	
DMR4060R10E1	●	1	6	15	6	75	
DMR4060R10H	●	1	6	15	6	100	
<b>NEW</b> DMR4060R15	●	1.5	6	15	6	50	
DMR4060R20	●	2	6	15	6	50	
<b>NEW</b> DMR4070R05	●	0.5	7	17.5	8	60	
<b>NEW</b> DMR4080R02	●	0.2	8	20	8	60	
<b>NEW</b> DMR4080R03	●	0.3	8	20	8	60	
DMR4080R05	●	0.5	8	20	8	60	
DMR4080R05E1	●	0.5	8	20	8	75	
DMR4080R05H	●	0.5	8	20	8	100	
DMR4080R10	●	1	8	20	8	60	
DMR4080R10E1	●	1	8	20	8	75	
DMR4080R10H	●	1	8	20	8	100	
DMR4080R15	●	1.5	8	20	8	60	
<b>NEW</b> DMR4080R20	●	2	8	20	8	60	
<b>NEW</b> DMR4100R02	●	0.2	10	25	10	75	
DMR4100R05	●	0.5	10	25	10	75	
DMR4100R05H	●	0.5	10	25	10	100	
DMR4100R10	●	1	10	25	10	75	
DMR4100R10H	●	1	10	25	10	100	
DMR4100R15	●	1.5	10	25	10	75	
DMR4100R20	●	2	10	25	10	75	
<b>NEW</b> DMR4100R30	●	3	10	25	10	75	
DMR4120R05	●	0.5	12	30	12	75	
DMR4120R05H	●	0.5	12	30	12	100	
DMR4120R10	●	1	12	30	12	75	
DMR4120R10H	●	1	12	30	12	100	
DMR4120R15	●	1.5	12	30	12	75	
DMR4120R20	●	2	12	30	12	75	
<b>NEW</b> DMR4160R10	●	1	16	40	16	100	



## DMR 4000R00系列切削參數

The Cutting Data For DMR 4000R00 Series

被加工材質  
Material鋼  
Steel不鏽鋼  
Stainless steel鑄鐵  
Cast Iron

直徑 (mm) Shank	4	6	8	10	12	16
轉速 n (min)	6400	4300	3200	2600	2200	1600
進給速度 Vf (mm/min)	520	560	570	540	540	400

**特殊設計** 可保護圓鼻刀刀尖  
Special design for protecting end mill tip

## 6 刃圓鼻鎢鋼立銑刀

6 Flutes Rounded Land Carbide End Mill

高精度加工專用刀，高穩定性可有效降低加工震動，抗震性佳  
提升刀具使用壽命，減少刀具震動的崩損，全新鈦鈦塗層，  
高耐磨、高韌性材質。**加工高硬度HRC55°~60°**，擁有優良  
加工表面，有效控制排屑效率穩定。

Special coating for alloy steel, carbon steel, special tools for high-precision machining  
high stability can effectively reduce machining vibration, good seismic resistance, enhance tool life,  
brand new titanium coating, high wear resistance, high toughness material. **Processing for high hardness HRC55°-60°**.  
excellent machined surface, effectively control efficiency and stability of chip removal.



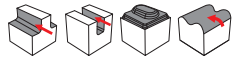
螺旋角採45°設計  
Helix angle of 45° degrees

### GPR 6000R00

6 刃圓鼻鎢鋼立銑刀  
6 Flutes Rounded Land Carbide End Mill



新品上市  
New Arrival



產品型號 Model No	在庫 Stock	刃角 R RE	切削直徑 DC	切削長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
NEW GPR6060R02		0.2	6	15	6	50	
NEW GPR6060R05		0.5	6	15	6	50	
NEW GPR6060R10		1	6	15	6	50	
NEW GPR6080R05		0.5	8	20	8	60	
NEW GPR6080R10	●	1	8	20	8	60	
NEW GPR6100R05		0.5	10	25	10	75	
NEW GPR6100R10	●	1	10	25	10	75	
NEW GPR6120R05		0.5	12	30	12	75	
NEW GPR6120R10		1	12	30	12	75	
NEW GPR6160R05	●	0.5	16	40	16	100	
NEW GPR6160R10		1	16	40	16	100	
NEW GPR6160R20		2	16	40	16	100	
NEW GPR6200R05		0.5	20	50	20	100	
NEW GPR6200R10		1	20	50	20	100	
NEW GPR6200R20		2	20	50	20	100	

### GPR 6000R00系列切削參數

The Cutting Data For GPR 6000R00 Series

被加工材質 Material  
合金鋼 Alloy Steel 碳鋼 Carbon Steel

直徑 (mm) Shank	6	8	10	12	16	20
轉速 n (min)	4250	3200	2550	2200	1600	1300
進給速度 Vf (mm/min)	510	580	610	660	580	580



# 圓溝不等分割不等螺旋高進給 4 刃圓鼻鎢鋼端銑刀

Round Land Unequal Division Unequal Helix High Feed 4 Flutes Corner Radius Carbide End Mill

採用不等刃分割、不等螺旋35°/38°設計，可進行高進給銑削，能適應較大的切深  
Unequal division & unequal helix 35/38 design. Can be used for high feed milling,  
can adapt to larger cutting depths.

**特殊鍍鈦，適用於難切削材、航太零部件**  
提升耐高溫、耐磨耗度，表面不易沾黏金屬  
Special titanium coating, suitable for difficult-to-cut  
materials and aerospace parts. Improved high  
temperature resistance and wear resistance, the  
surface is not easy to stick to metal.

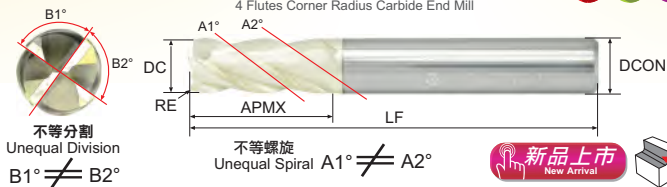
**用於擺線加工表現效果佳**  
加大容屑槽設計，提升排屑效率  
Excellent performance in trochoidal  
machining.  
Enlarged chip flute design for improved  
chip removal efficiency.

**特殊設計**  
可保護圓鼻刀尖  
Special design  
for protecting  
end mill tip

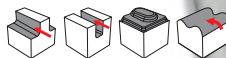


## SUH-FYR 4000R00

圓溝不等分割不等螺旋高進給 4 刃圓鼻鎢鋼端銑刀  
Round Land Unequal Division Unequal Helix High Feed  
4 Flutes Corner Radius Carbide End Mill



新品上市  
New Arrival



產品型號 Model No	在庫 Stock	刃角 R RE	切削直徑 DC	切刃長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
NEW SUH-FYR4040R05	●	0.5	4	10	4	50	
NEW SUH-FYR4040R10		1	4	10	4	50	
NEW SUH-FYR4060R05	●	0.5	6	15	6	50	
NEW SUH-FYR4060R10		1	6	15	6	50	
NEW SUH-FYR4060R15		1.5	6	15	6	50	
NEW SUH-FYR4080R05	●	0.5	8	20	8	60	
NEW SUH-FYR4080R10		1	8	20	8	60	
NEW SUH-FYR4080R05E1		0.5	8	20	8	75	
NEW SUH-FYR4080R10E1		1	8	20	8	75	
NEW SUH-FYR4080R15		1.5	8	20	8	60	
NEW SUH-FYR4080R20		2	8	20	8	60	
NEW SUH-FYR4100R05	●	0.5	10	25	10	75	
NEW SUH-FYR4100R05H		0.5	10	25	10	100	
NEW SUH-FYR4100R10		1	10	25	10	75	
NEW SUH-FYR4100R15		1.5	10	25	10	75	
NEW SUH-FYR4100R20		2	10	25	10	75	
NEW SUH-FYR4120R05	●	0.5	12	30	12	75	
NEW SUH-FYR4120R10		1	12	30	12	75	
NEW SUH-FYR4160R05	●	0.5	16	48	16	100	

## SUH-FYR 4000R00系列切削參數 The Cutting Data For SUH-FYR 4000R00 Series

特殊材質 Material

鈦合金 Titanium

鎳合金 Nickel Alloy

直徑 (mm) Shank	4	6	8	10	12
轉速 n (min)	3100	2100	1600	1250	1050
進給速度 Vf (mm/min)	620	420	320	250	210

直徑 (mm) Shank	4	6	8	10	12
轉速 n (min)	4700	3150	2350	1900	1600
進給速度 Vf (mm/min)	940	630	470	380	320

# 不等分割、不等螺旋非圓溝

Unequal Division & Unequal Helix Angle without rounded Land

## 圓鼻4刃鎢鋼端銑刀

4 Flutes Corner Radius Carbide End Mill

**不等角分割利於高速進給加工抗震性**

Unequal division is beneficial to enhance seismic performance for high-speed feed.

**不等螺旋角利於高速加工抗崩裂性**

Unequal helix angle prevents tipping for high-speed processing.

採用螺旋角35°/38°設計，不等刃分割、不等螺旋圓鼻銑刀，可有效抑制加工所產生的震動

減少刀具因震動的崩損，更有優良的加工表面，提升刀具使用時間壽命

Helix angle 35°/38° design, it can avoid the cutting vibration pattern effectively and reduce crumbling on workpiece due to vibration with high quality machining surfaces and enhancing tool life.

特殊設計

可保護圓鼻刀刀尖

Special design, it can protect the top of Radius tip.

35° 不等螺旋  
Unequal Spiral  
 $A1^\circ \neq A2^\circ$   
38°



不等分割  
Unequal Division  
 $B1^\circ \neq B2^\circ$

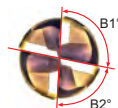
PH-FMR 4000R00

特殊設計

可保護圓鼻刀刀尖

Special design, it can protect the top of Radius tip.

35° 不等螺旋  
Unequal Spiral  
 $A1^\circ \neq A2^\circ$   
38°



不等分割  
Unequal Division  
 $B1^\circ \neq B2^\circ$

PH-FPR 4000R00

PH-FER 4000R00



全新FPR、FER高耐磨、高韌性材質  
可加工高硬度HRC55°~65°。

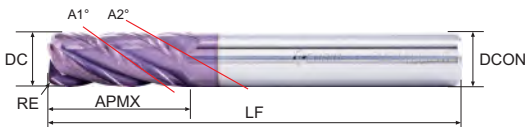
New FPR vs FER series with high abrasion resistance, High ductility material HRC55°~65°.

# PH-FMR 4000R00

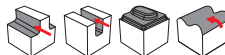
不等分割不等螺旋非圓溝 4 刃圓鼻銼鋼端銼刀  
Unequal Division & Unequal Helix Angle without rounded Land 4 Flutes Corner Radius Carbide End Mill



不等分割  
Unequal Division  
 $B1^\circ \neq B2^\circ$



不等螺旋  
Unequal Spiral  $A1^\circ \neq A2^\circ$



產品型號 Model No	在庫 Stock	刃角 R RE	切削直徑 DC	切刃長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
PH-FMR4040R05	●	0.5	4	10	4	50	
PH-FMR4040R10	●	1	4	10	4	50	
<b>NEW</b> PH-FMR4040R10D6	●	1	4	10	6	50	
<b>NEW</b> PH-FMR4050R05	●	0.5	5	12.5	6	50	
<b>NEW</b> PH-FMR4060R05	●	0.5	6	15	6	50	
<b>NEW</b> PH-FMR4060R10	●	1	6	15	6	50	
PH-FMR4080R05	●	0.5	8	20	8	60	
PH-FMR4080R10	●	1	8	20	8	60	
PH-FMR4080R30	●	3	8	20	8	60	
PH-FMR4100R05	●	0.5	10	25	10	75	
<b>NEW</b> PH-FMR4100R05L130	●	0.5	10	30	10	75	
<b>NEW</b> PH-FMR4100R05H	●	0.5	10	25	10	100	
PH-FMR4100R08	●	0.8	10	25	10	75	
PH-FMR4100R10	●	1	10	25	10	75	
<b>NEW</b> PH-FMR4120R05	●	0.5	12	30	12	75	
<b>NEW</b> PH-FMR4120R08L136	●	0.8	12	36	12	75	
PH-FMR4120R10	●	1	12	30	12	75	
PH-FMR4120R30	●	3	12	30	12	75	
<b>NEW</b> PH-FMR4160R05	●	0.5	16	48	16	100	

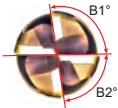
## PH-FMR 4000R00系列切削參數

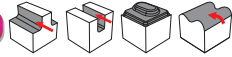
The Cutting Data For PH-FMR 4000R00 Series

被加工材質 Material 鋼 Steel 不鏽鋼 Stainless steel 鑄鐵 Cast Iron

直徑 (mm) Shank	4	6	8	10	12
轉速 n (min)	6400	4300	3200	2600	2200
進給速度 Vf (mm/min)	520	560	570	540	540

# PH-FER 4000R00

 不等分割不等螺旋非圓溝 4 刃圓鼻鋼銑刀  
 Unequal Division & Unequal Helix Angle without  
 rounded Land 4 Flutes Corner Radius Carbide End Mill

 不等分割  
 Unequal Division  
 $B1^\circ \neq B2^\circ$ 

 不等螺旋  
 Unequal Spiral  $A1^\circ \neq A2^\circ$ 


產品型號 Model No	在庫 Stock	刃角 R RE	切削直徑 DC	切刀長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
NEW PH-FER4040R05		0.5	4	10	4	50	
NEW PH-FER4040R10		1	4	10	4	50	
NEW PH-FER4060R05		0.5	6	15	6	50	
NEW PH-FER4060R10	●	1	6	15	6	50	
NEW PH-FER4060R15	●	1.5	6	15	6	50	
NEW PH-FER4080R05	●	0.5	8	20	8	60	
NEW PH-FER4080R10		1	8	20	8	60	
NEW PH-FER4080R15	●	1.5	8	20	8	60	
NEW PH-FER4080R20	●	2	8	20	8	60	
NEW PH-FEP4080R30		3	8	20	8	60	
NEW PH-FER4100R05		0.5	10	25	10	75	
NEW PH-FER4100R10		1	10	25	10	75	
NEW PH-FER4100R15		1.5	10	25	10	75	
NEW PH-FER4100R20		2	10	25	10	75	
NEW PH-FER4120R05		0.5	12	30	12	75	
NEW PH-FER4120R10		1	12	30	12	75	
NEW PH-FER4120R30		3	12	30	12	75	

## PH-FER 4000R00系列切削參數

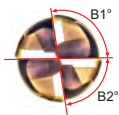
The Cutting Data For PH-FER 4000R00 Series

 被加工材質 Material 合金鋼 Alloy Steel 碳鋼 Carbon Steel

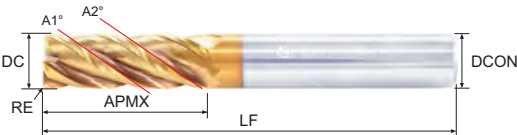
直徑 (mm) Shank	4	6	8	10	12
轉速 n (min)	6400	4300	3200	2600	2200
進給速度 Vf (mm/min)	520	560	570	540	540

# PH-FPR 4000R00

不等分割不等螺旋非圓溝 4 刃圓鼻銼鋼端銼刀  
Unequal Division & Unequal Helix Angle without rounded Land 4 Flutes Corner Radius Carbide End Mill

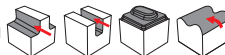


不等分割  
Unequal Division  
 $B1^\circ \neq B2^\circ$



不等螺旋  
Unequal Spiral  $A1^\circ \neq A2^\circ$

**新規格上市**  
New Specification Arrival



產品型號 Model No	在庫 Stock	刃角 R RE	切削直徑 DC	切刀長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
NEW PH-FPR4030R10D6	●	1	3	7.5	6	50	
PH-FPR4040R05	●	0.5	4	10	4	50	
PH-FPR4040R10	●	1	4	10	4	50	
NEW PH-FPR4050R05	●	0.5	5	12.5	6	50	
PH-FPR4060R05	●	0.5	6	15	6	50	
PH-FPR4060R10	●	1	6	15	6	50	
NEW PH-FPR4060R15	●	1.5	6	15	6	50	
PH-FPR4080R05	●	0.5	8	20	8	60	
NEW PH-FPR4080R05E1	●	0.5	8	20	8	75	
PH-FPR4080R10	●	1	8	20	8	60	
NEW PH-FPR4080R10E1	●	1	8	20	8	75	
NEW PH-FPR4080R15	●	1.5	8	20	8	60	
NEW PH-FPR4080R20	●	2	8	20	8	60	
NEW PH-FPR4100R05	●	0.5	10	25	10	75	
NEW PH-FPR4100R05H	●	0.5	10	25	10	100	
PH-FPR4100R05L130	●	0.5	10	30	10	75	
PH-FPR4100R10	●	1	10	25	10	75	
PH-FPR4100R10L130	●	1	10	30	10	75	
PH-FPR4100R15	●	1.5	10	25	10	75	
PH-FPR4100R20	●	2	10	25	10	75	
PH-FPR4100R20L130	●	2	10	30	10	75	
PH-FPR4120R05	●	0.5	12	30	12	75	
PH-FPR4120R10	●	1	12	30	12	75	
NEW PH-FPR4120R20	●	2	12	30	12	75	
PH-FPR4120R30L136	●	3	12	36	12	75	

## PH-FPR 4000R00系列切削參數

The Cutting Data For PH-FPR 4000R00 Series

被加工材質 Material **合金鋼 Alloy Steel** **碳鋼 Carbon Steel**

直徑 (mm) Shank	3	4	6	8	10	12
轉速 n (min)	8500	6400	4300	3200	2600	2200
進給速度 Vf (mm/min)	680	520	560	570	540	540

不等分割不等螺旋非圓溝  
Unequal Division Unequal Helix Angle Non Round Land

# 4刃C角鎢鋼立銑刀

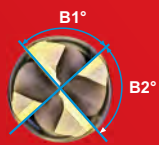
4 Flute C corner Carbide End Mill



特殊設計 Special design 可保護C角刀尖  
It can protect the top of C corner tip

全新FPC高耐磨、高韌性材質 可加工高硬度HRC55°~60°  
New FPC With High Abrasion Resistance  
High ductility material HRC55°~60°

滿足工件C角成形加工需求，有效抑制高速進給所產生的震動  
抗震性佳，減少刀具因震動的崩損，擁有優良加工表面，提升  
刀具加工壽命。



不等分割  
Unequal Division  
B1° ≠ B2°

Meet the processing requirements of workpiece C corner forming  
the unequal split design can effectively suppress the vibration  
caused by high speed feed reduce tool breakage due to vibration  
conductive to high quality machining surfaces and improved tool life.

合金鋼 Alloy Steel 碳鋼 Carbon Steel 專用特殊塗層  
For the particular coating with

## PH-FPC 4000C00



新品上市 New Arrival

產品型號 Model No	在庫 Stock	倒角 C	切削直徑 DC	切刃長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
PH-FPC4030C01L108	●	0.1	3	8	3	50	
PH-FPC4040C015	●	0.15	4	10	4	50	
PH-FPC4060C02		0.2	6	15	6	50	
PH-FPC4080C02	●	0.2	8	20	8	60	
PH-FPC4080C02E1	●	0.2	8	20	8	75	
PH-FPC4100C02	●	0.2	10	25	10	75	
PH-FPC4100C03	●	0.3	10	25	10	75	
PH-FPC4100C03L130		0.3	10	30	10	75	
PH-FPC4100C03L136		0.3	10	36	10	75	
PH-FPC4120C035		0.35	12	30	12	75	

### PH-FPC 4000C00系列切削參數

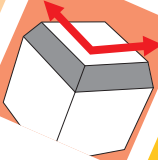
The Cutting Data For PH-FPC 4000C00 Series

被加工材質 Material 合金鋼 Alloy Steel 碳鋼 Carbon Steel

直徑 (mm) Shank	4	6	8	10	12
轉速 n (min)	6400	4300	3200	2600	2200
進給速度 Vf (mm/min)	520	560	570	540	540

# 2刃鎢鋼定位鑽

倒角 Chamfering



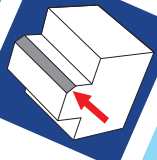
圓孔倒角加工 Chamfer Of Rounding Hole



定位加工 Positioning Processing



側銑倒角 Side Milling Chamfering



DT-DMC 2000



DC-DMC 2000



2 Flutes Composite Carbide End Mill Positioning Drill

螺旋角30度設計，NC銑床專用  
定位鑽、倒角刀具，適用定位加工、  
孔倒角、圓孔倒角加工

Helix angle 30° design,  
positioning drill for NC milling  
machine chamfering  
tool apply for  
positioning,  
chamfering,  
round hole  
chamfering.

DR-DMC 2000



適用材質 Processing on

鋼 Steel

不鏽鋼 Stainless Steel

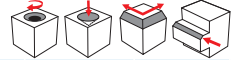
鑄鐵 Cast Iron





## DT-DMC 2000

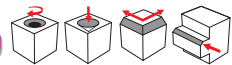
 2 刃鎢鋼定位鑽  
2 Flutes Positioning Drill


 新品上市  
New Arrival


	產品型號 Model No	在庫 Stock	切削直徑 DC	切刃長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
NEW	DT-DMC2030	●	3	10	3	50	
NEW	DT-DMC2040	●	4	12	4	50	
NEW	DT-DMC2050	●	5	20	5	50	
NEW	DT-DMC2060	●	6	20	6	50	
NEW	DT-DMC2080	●	8	25	8	60	
NEW	DT-DMC2100	●	10	25	10	75	
NEW	DT-DMC2120	●	12	30	12	75	
NEW	DT-DMC2160	●	16	35	16	100	
NEW	DT-DMC2200	●	20	40	20	100	

## DC-DMC 2000

 2 刃鎢鋼定位鑽  
2 Flutes Positioning Drill

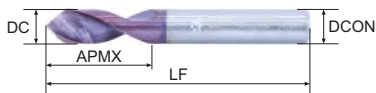

 新規格上市  
New Specification Arrival


	產品型號 Model No	在庫 Stock	切削直徑 DC	切刃長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
	DC-DMC2030	●	3	10	3	50	
	DC-DMC2040	●	4	12	4	50	
	DC-DMC2040E1	●	4	12	4	75	
	DC-DMC2050	●	5	20	5	50	
NEW	DC-DMC2050E1	●	5	20	5	75	
	DC-DMC2060	●	6	20	6	50	
NEW	DC-DMC2060H	●	6	20	6	100	
	DC-DMC2080	●	8	25	8	60	
NEW	DC-DMC2080H	●	8	25	8	100	
	DC-DMC2100	●	10	25	10	75	
NEW	DC-DMC2100H	●	10	25	10	100	
	DC-DMC2120	●	12	30	12	75	
NEW	DC-DMC2120H	●	12	30	12	100	
	DC-DMC2160	●	16	35	16	100	
NEW	DC-DMC2160M	●	16	35	16	150	
	DC-DMC2200	●	20	40	20	100	

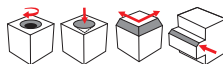


**DR-DMC 2000**

2 刃鎢鋼定位鑽  
2 Flutes Positioning Drill



**新規格上市**  
New Specification Arrival



產品型號 Model No	在庫 Stock	切削直徑 DC	切刃長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
DR-DMC2030	●	3	10	3	50	
DR-DMC2040	●	4	12	4	50	
<b>NEW</b> DR-DMC2040E1		4	12	4	75	
DR-DMC2050	●	5	20	5	50	
<b>NEW</b> DR-DMC2050E1		5	20	5	75	
DR-DMC2060	●	6	20	6	50	
<b>NEW</b> DR-DMC2060H		6	20	6	100	
DR-DMC2080	●	8	25	8	60	
<b>NEW</b> DR-DMC2080H		8	25	8	100	
DR-DMC2100	●	10	25	10	75	
<b>NEW</b> DR-DMC2100H		10	25	10	100	
DR-DMC2120	●	12	30	12	75	
<b>NEW</b> DR-DMC2120H		12	30	12	100	
DR-DMC2160	●	16	35	16	100	
<b>NEW</b> DR-DMC2160M		16	35	16	150	
DR-DMC2200	●	20	40	20	100	

**DT-DMC 2000、DC-DMC 2000、DR-DMC 2000系列切削參數**

The Cutting Data For DT-DMC 2000、DC-DMC 2000、DR-DMC 2000 Series

被加工材質 Material  
鋼 Steel
不鏽鋼 Stainless steel
鑄鐵 Cast Iron

直徑 (mm) Shank	3	4	5	6	8	10	12	16	20
轉速 n (min)	7400	5500	4400	3700	2800	2300	1900	1400	1100
進給速度 Vf (mm/min)	300	220	180	150	120	90	80	60	45

DC-DMM  
series



DR-DMM  
series



## 2 Flutes 2刃 定位側銑 錫鋼鑽 Milling Carbide Drill

適用材質 Processing on

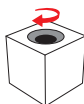
合金鋼  
Alloy Steel

不鏽鋼  
Stainless Steel

鑄鐵  
Cast Iron

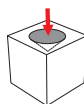
螺旋角30°設計，NC銑床專用定位鑽、鑽孔及倒角刀具，亦可進行側銑加工。

Helix angle 30° design, positioning drill, rilling and chamfering tool for NC milling machine, side milling is also available.



圓孔倒角

Chamfer Of  
Rounding Hole



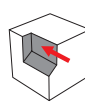
定位加工

Position  
Processing



倒角

Chamfer



斜面側銑

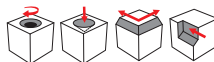
Incline  
Side Milling







## DC-DMM 2000

2 刃定位側銑鎢鋼鑽  
2 Flutes Positioning Side Milling Carbide Drill



 **新品上市**  
New Arrival



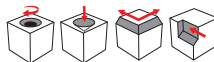
產品型號 Model No	在庫 Stock	切削直徑 DC	切刃長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
 DC-DMM2060	●	6	12	6	50	
 DC-DMM2080		8	16	8	60	
 DC-DMM2100	●	10	20	10	75	
 DC-DMM2120	●	12	24	12	75	
 DC-DMM2160		16	32	16	100	
 DC-DMM2200		20	40	20	100	







## DR-DMM 2000

2 刃定位側銑鎢鋼鑽  
2 Flutes Positioning Side Milling Carbide Drill



 **新品上市**  
New Arrival



產品型號 Model No	在庫 Stock	切削直徑 DC	切刃長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
 DR-DMM2060		6	12	6	50	
 DR-DMM2080		8	16	8	60	
 DR-DMM2100		10	20	10	75	
 DR-DMM2120	●	12	24	12	75	
 DR-DMM2160		16	32	16	100	
 DR-DMM2200		20	40	20	100	

### DC-DMM 2000、DR-DMM 2000系列切削參數

The Cutting Data For DC-DMM 2000、DR-DMM 2000 Series

被加工材質 Material 鋼 Steel 不鏽鋼 Stainless steel 鑄鐵 Cast Iron

直徑 (mm) Shank	6	8	10	12	16	20
轉速 n (min)	3700	2800	2300	1900	1400	1100
進給速度 Vf (mm/min)	150	120	90	80	60	45

# 2 刃鎢鋼複合材料

2 Flutes Composite Carbide Positioning Drill

## 專用定位鑽

螺旋角30°設計，NC銑床專用定位鑽、倒角刀具，適用於定位加工、孔倒角、倒角、圓孔倒角加工



Helix angle 30° design, positioning drill for NC milling machine chamfering tool apply for positioning, chamfering, round hole chamfering.



DC-DPC



DC-DWC



DR-DWC



適用材質 Processing on

合金鋼  
Alloy Steel

碳鋼  
Carbon Steel

專用特殊塗層 Special Coating for

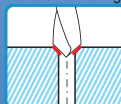
圓孔倒角  
Chamfer Of Rounding Hole



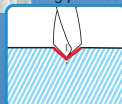
倒角  
Chamfering



孔倒角加工  
Hole Chamfering



定位加工  
Positioning processing



背面倒角  
Back Chamfering



適用材質 Processing on

鋁合金  
Aluminum

銅  
Copper

塑膠  
Plastic

複合材料專用 Composite material processing

DC-DPC 2000

2 刃鎢鋼定位鑽  
2 Flutes Positioning Drill

MG  $\frac{1111}{0.05}$  CO 2% HRC <60 P 500 30 TiSiN



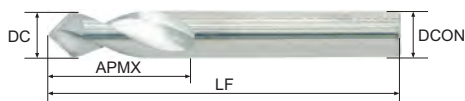
新品上市  
New Arrival



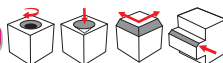
產品型號 Model No	在庫 Stock	切削直徑 DC	切刃長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
DC-DPC2030	●	3	10	3	50	
DC-DPC2040	●	4	12	4	50	
DC-DPC2040E1	●	4	12	4	75	
DC-DPC2050	●	5	20	5	50	
DC-DPC2060	●	6	20	6	50	
DC-DPC2080	●	8	25	8	60	
DC-DPC2100	●	10	25	10	75	
DC-DPC2120	●	12	30	12	75	
DC-DPC2160	●	16	35	16	100	
DC-DPC2200	●	20	40	20	100	








## DC-DWC 2000

2 刃鎢鋼定位鑽  
2 Flutes Carbide Drill



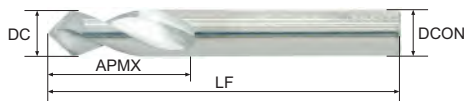
 新品上市  
New Arrival



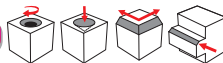
產品型號 Model No	在庫 Stock	切削直徑 DC	切刃長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
 DC-DWC2030		3	10	3	50	
 DC-DWC2040	●	4	12	4	50	
 DC-DWC2050		5	20	5	50	
 DC-DWC2060	●	6	20	6	50	
 DC-DWC2080	●	8	25	8	60	
 DC-DWC2100	●	10	30	10	75	
 DC-DWC2160	●	16	35	16	100	








## DR-DWC 2000

2 刃鎢鋼定位鑽  
2 Flutes Carbide Drill



 新品上市  
New Arrival



產品型號 Model No	在庫 Stock	切削直徑 DC	切刃長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
 DR-DWC2030		3	10	3	50	
 DR-DWC2040		4	12	4	50	
 DR-DWC2050		5	20	5	50	
 DR-DWC2060		6	20	6	50	
 DR-DWC2080		8	25	8	60	
 DR-DWC2100		10	25	10	75	
 DR-DWC2160		16	35	16	100	

## DC-DPC 2000、DC-DWC 2000、DR-DWC 2000系列切削參數

The Cutting Data For DC-DPC 2000、DC-DWC 2000、DR-DWC 2000 Series

被加工材質  
Material

合金鋼  
Alloy Steel

碳鋼  
Carbon Steel

鋁合金  
Aluminum

銅  
Copper

塑膠  
Plastic

直徑 (mm) Shank	3	4	5	6	8	10	12	16	20
轉速 n (min)	7400	5500	4400	3700	2800	2300	1900	1400	1100
進給速度 Vf (mm/min)	300	220	180	150	120	90	80	60	45

# DCM-EPC 3000 series

## 90°定位倒角3刃鎢鋼銑刀

全新P550塗層 高耐磨、高韌性、抗震、抗崩損  
 可定位鑽孔、倒角、孔倒角或雕刻加工，  
 擁有多功能切削加工的精密深孔倒角刀具。

**New P550 coating, high wear resistance,**  
**high toughness,**  
 Earthquake resistance, and collapse resistance.  
 Can position drilling, chamfering, hole chamfering or  
 engraving. Precision deep hole chamfering tool with  
 multifunctional cutting functions.

特殊塗層專用  
 For the particular  
 coating with

合金鋼  
 Alloy steel

碳鋼  
 Carbon steel

# 90° Position Drilling Chamfering 3 Flutes Carbide End Mill

採用德國WALTER五軸機研磨生產  
 研磨尺寸精準且穩定  
 Produced by a brand-new imported five-axis  
 cutter grinder with precise and stable grinding size.

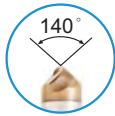
尖端角140°  
 Included angle

頂角90°  
 Point angle

螺旋角採35°設計  
 Helix angle 35° design

## DCM-EPC 3000

90°定位倒角3刃鎢鋼銑刀  
 90° Position Drilling Chamfering 3 Flutes Carbide End Mill



新品上市  
 New Arrival



產品型號 Model No	在庫 Stock	切削直徑 DC	最小切削直徑 DCN	切刃長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
NEW DCM-EPC3030		3	0.6	1.3	3	38	
NEW DCM-EPC3030E1		3	0.6	1.3	3	75	
NEW DCM-EPC3040		4	0.8	1.74	4	50	
NEW DCM-EPC3040E1		4	0.8	1.74	4	75	
NEW DCM-EPC3060	●	6	1.2	2.61	6	50	
NEW DCM-EPC3060E1		6	1.2	2.61	6	75	
NEW DCM-EPC3080		8	1.6	3.49	8	60	
NEW DCM-EPC3080H		8	1.6	3.49	8	100	
NEW DCM-EPC3100		10	2	4.36	10	75	
NEW DCM-EPC3100H		10	2	4.36	10	100	
NEW DCM-EPC3120		12	2.4	5.23	12	75	
NEW DCM-EPC3120H		12	2.4	5.23	12	100	

## DCM-EPC 3000系列切削參數

The Cutting Data For DCM-EPC 3000 Series

被加工材質  
 Material

合金鋼  
 Alloy Steel

碳鋼  
 Carbon Steel

直徑 (mm) Shank	3	4	6	8	10	12
轉速 n (min)	7400	5500	3700	2800	2300	1900
進給速度 Vf (mm/min)	450	330	225	180	135	120

# V 型鳩尾槽銑刀

## V-Type Chamfer Cutter



CC系列



CR系列



特殊倒角加工刀具 雙刃鳩尾設計  
Special chamfering tool  
Double edged and tailed design

適用材質 Processing on

合金鋼 Alloy Steel

不鏽鋼 Stainless Steel

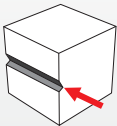
鑄鐵 Cast Iron

可滿足各種角度的倒角需求  
有效減少加工時間及刀架成本

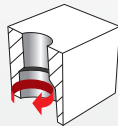
It can meet various angle chamfering requirements, effectively reducing machining time and tools costs.

切削參數 The Cutting Data

直徑 (mm) Shank	4	6	8	10	12
轉速 n (min)	5500	3700	2800	2200	1900
進給速度 Vf (mm/min)	400	400	500	650	650



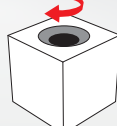
側面倒角  
Side Chamfering



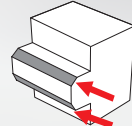
側面 V 槽  
Side V Groove  
Processing



倒角  
Chamfering



圓孔倒角  
Chamfer Of  
Rounding Hole



背面倒角  
Back Chamfering

**CC-AMC** V型鳩尾槽銼鋼刀  
 V-Type Chamfer Cutter

 新規格上市  
 New Specification Arrival


產品型號 Model No	在庫 Stock	切削直徑 DC	切刃長度 APMX	柄部直徑 DCON	頸徑 DN	可使用長度 LU	標準全長 LF	刃數 CICT	價格 Price
CC-AMC4040L207DD6	●	4	1.9	6	2.4	7	60	4	
CC-AMC4060L207D	●	6	2.8	6	3	7	60	4	
NEW CC-AMC4080L209	●	8	3.8	8	4	9	60	4	
NEW CC-AMC4080L220	●	8	3.8	8	4	20	60	4	
CC-AMC6080L209	●	8	3.8	8	4	9	60	6	
CC-AMC6100L211	●	10	4.8	10	5	11	75	6	
CC-AMC6120L213	●	12	5.8	12	6	13	75	6	

**CR-AMC** V型鳩尾槽銼鋼刀  
 V-Type Chamfer Cutter


產品型號 Model No	在庫 Stock	切削直徑 DC	切刃長度 APMX	柄部直徑 DCON	頸徑 DN	可使用長度 LU	標準全長 LF	刃數 CICT	價格 Price
CR-AMC4060L206D		6	1.8	6	2.7	6	60	4	
CR-AMC6080L208	●	8	2.4	8	3.6	8	60	6	
CR-AMC6100L210	●	10	3.1	10	4.5	10	75	6	
CR-AMC6120L212	●	12	3.7	12	5.4	12	75	6	

**CC-AMC、CR-AMC系列切削參數**

The Cutting Data For CC-AMC、CR-AMC Series

 被加工材質 Material  
 ● 銅 Steel    ● 不鏽鋼 Stainless steel    ● 鑄鐵 Cast Iron

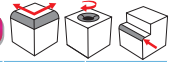
直徑 (mm) Shank	4	6	8	10	12
轉速 n (min)	5500	3700	2800	2200	1900
進給速度 Vf (mm/min)	400	400	500	650	650



**AMI 2000** 2 刃鑄鋼外 R 角倒角銼刀  
2 Flutes External R Chamfering Carbide End Mill



 **新規格上市**  
New Specification Arrival



產品型號 Model No	在庫 Stock	刃角 R RE	切削直徑 DC	切刃長度 APMX	柄部直徑 DCON	頸徑 DN	標準全長 LF	價格 Price
AMI2015RE0050	●	0.5	1.5	5	4	2.7	50	
AMI2015RE0075	●	0.75	1.5	5	4	3.2	50	
AMI2015RE0100	●	1	1.5	8	4	3.7	50	
AMI2015RE0100D6	●	1	1.5	8	6	3.7	50	
AMI2015RE0125D6		1.25	1.5	8	6	4.2	50	
AMI2015RE0150D6	●	1.5	1.5	8	6	4.7	50	
AMI2015RE0175D6		1.75	1.5	8	6	5.2	50	
AMI2015RE0200D6	●	2	1.5	10	6	5.7	50	
AMI2015RE0250D8	●	2.5	1.5	10	8	6.7	60	
AMI2015RE0300D8	●	3	1.5	12	8	7.7	60	
AMI2020RE0400D12	●	4	2	12	12	10.2	75	
<b>NEW</b> AMI2030RE0150D6	●	1.5	3	—	6	—	50	
AMI2030RE0500D16	●	5	3	15	16	13.2	100	
AMI2030RE0600D16	●	6	3	15	16	15.2	100	
<b>NEW</b> AMI2030RE0125D6	●	1.25	3	9.5	6	—	50	
<b>NEW</b> AMI2040RE0100D6	●	1	4	—	6	—	50	

**AMI 2000系列切削參數**

The Cutting Data For AMI 2000 Series

被加工材質 Material 鋼 Steel 不鏽鋼 Stainless steel 鑄鐵 Cast Iron

刃角 R R Angle	0.5	0.75	1	1.25	1.5	1.75	2	2.5	3	4	5	6
轉速 n (min)	7800	6350	4700	4000	3100	2800	2600	2200	1900	1500	1300	1100
進給速度 Vf (mm/min)	310	250	190	240	190	170	160	180	150	180	210	180

# AMT series

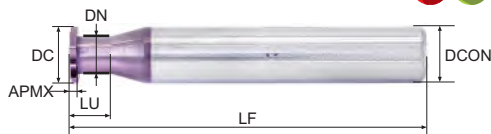
# T型槽 Carbide End Mill

# T-SLOT 鎢鋼端銑刀

高精度、高效率開槽銑刀  
一體式開槽銑刀 C扣環溝加工專用  
Integrated slotting end mill  
Special for C buckle ring groove processing  
High-precision, high-efficiency slotting end mill



AMT T型槽鎢鋼端銑刀  
T-Slot Carbide End Mill



產品型號 Model No	在庫 Stock	切削直徑 DC	切刃長度 APMX	柄部直徑 DCON	頸徑 DN	可使用長度 LU	標準全長 LF	刃數 CICT	價格 Price
NEW AMT8080CW010		8	1	8	5.4	5	60	8	
NEW AMT8080CW015		8	1.5	8	5.4	5.5	60	8	
NEW AMT8080CW020		8	2	8	5.4	6	60	8	
NEW AMT10120CW010		12	1	12	8.1	8	75	10	
NEW AMT10120CW015	●	12	1.5	12	8.1	8.5	75	10	
NEW AMT10120CW020		12	2	12	8.1	9	75	10	

## AMT系列切削參數

The Cutting Data For AMT Series

被加工材質 Material  
鋼 Steel
不鏽鋼 Stainless steel
鑄鐵 Cast Iron

直徑 (mm) Shank	8	12
轉速 n (min)	1600	1060
進給速度 Vf (mm/min)	380	320



# E180-AWA 1000L1 series

**180° 鎢鋼平行雕刻立銑刀**  
180° Tungsten Steel Parallel Engraving  
End Mill Brand

全新W500材質，採特殊刃長設計  
可適用於鋁合金、銅、模具加工  
平行雕刻銑削專用排屑優良

New W500 material, special flute length design  
Brand new W500 material, for aluminum alloy  
, copper and mold processing engraving,  
milling and special chamfering.  
Excellent chip removal



適用加工材  
Material

合金鋼  
Alloy Steel

碳鋼  
Carbon Steel

鋼  
Steel

不鏽鋼  
Stainless steel

鑄鐵  
Cast Iron

鋁合金  
Aluminum

銅  
Copper

# E030-AWC 1000L1 series

**30° 鎢鋼精細雕刻立銑刀**  
30° Tungsten Steel Fine Engraving End Mill

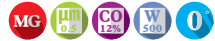
全新W500材質，採特殊刃長設計  
可適用鋁合金、銅、模具加工  
雕刻銑削及特殊倒角加工刀具  
可進行中、精細加工

Brand new W500 material,  
special flute length design for aluminum alloy,  
copper and mold processing engraving,  
milling and special chamfering,  
can do Medium and finishing processing



**E180-AWA 1000L1** 180° 鎢鋼平行雕刻立銼刀  
180° Engraving End Mill


產品型號 Model No	在庫 Stock	切削直徑 DC	切刃長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
<b>NEW</b> E180-AWA1030L105		3	5	3	40	
<b>NEW</b> E180-AWA1030L110	●	3	10	3	40	
<b>NEW</b> E180-AWA1040L106		4	6	4	50	
<b>NEW</b> E180-AWA1050L108		5	8	5	50	
<b>NEW</b> E180-AWA1060L109		6	9	6	60	
<b>NEW</b> E180-AWA1080L112		8	12	8	75	
<b>NEW</b> E180-AWA1100L115		10	15	10	75	
<b>NEW</b> E180-AWA1120L118		12	18	12	75	

**E030-AWC 1000L1** 30° 倒角雕刻立銼刀  
30° Engraving Chamfer End Mill


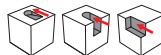
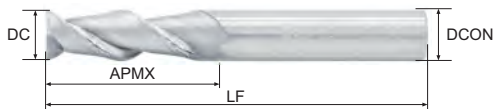
產品型號 Model No	在庫 Stock	切削直徑 DC	切刃長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
<b>NEW</b> E030-AWC10012L105BD3		0.12	5	3	40	
<b>NEW</b> E030-AWC10012L106B		0.12	6	4	40	
<b>NEW</b> E030-AWC10012L108BD5		0.12	8	5	40	
<b>NEW</b> E030-AWC10012L109D6		0.12	9	6	50	
<b>NEW</b> E030-AWC10016L105-38D6		0.16	5	6	38	

**E180-AWA 1000L1、E030-AWC 1000L1系列切削參數**

The Cutting Data For E180-AWA 1000L1、E030-AWC 1000L1 Series

 被加工材質 Material: **合金鋼 Alloy Steel** **碳鋼 Carbon Steel** **鋼 Steel** **不鏽鋼 Stainless steel** **鑄鐵 Cast Iron** **鋁合金 Aluminum** **銅 Copper**

直徑 (mm) Shank	3	4	5	6	8	10	12
轉速 n (min)	4250	3200	2550	2150	1600	1300	1100
進給速度 Vf (mm/min)	85	70	50	45	35	30	25



產品型號 Model No	在庫 Stock	切削直徑 DC	切刃長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
GMA2060	●	6	18	6	50	
GMA2080	●	8	24	8	60	
GMA2100	●	10	30	10	75	

## GMA 2000系列切削參數

The Cutting Data For GMA 2000 Series

被加工材質  
Material

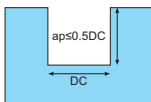
鋁合金  
Aluminum

銅  
Copper

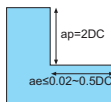
直徑 (mm) Shank		6	8	10
轉速 n (min)		10500	8000	6400
進給速度 (mm/min) Vf	開槽 Slotted	580	450	720
	側邊 Side	920	700	1150

### 切削深度 Cutting depth

開槽 Slotted

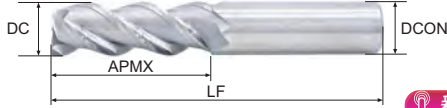


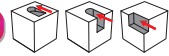
側邊 Side



ap : 軸向切削深度 Axial depth of cutting  
ae : 徑向切削深度 Radial depth of cutting  
DC : 刃徑 Diameter of cutting

**GMA 3000**

 鋁用 3 刃鎢鋼立銑刀  
 For Aluminum Alloy 3 Flutes End Mill


**新規格上市**  
 New Specification Arrival


產品型號 Model No	在庫 Stock	切削直徑		切刃長度		柄部直徑 DCON	標準全長 LF	價格 Price
		DC	APMX	DC	APMX			
GMA3010	●	1	3	4	50			
GMA3010D6		1	3	6	50			
GMA3015	●	1.5	4.5	4	50			
GMA3020	●	2	6	4	50			
GMA3020D6		2	6	6	50			
GMA3025	●	2.5	7.5	4	50			
GMA3030	●	3	9	4	50			
GMA3030D6	●	3	9	6	50			
GMA3030H	●	3	9	4	100			
GMA3040	●	4	12	4	50			
GMA3040D6	●	4	12	6	50			
GMA3040H	●	4	12	4	100			
GMA3050	●	5	15	6	50			
GMA3050H	●	5	15	6	100			
GAM3060	●	6	18	6	50			
GMA3060H	●	6	18	6	100			
GMA3080	●	8	24	8	60			
GMA3080H	●	8	24	8	100			
GMA3080M	●	8	24	8	150			
GMA3100	●	10	30	10	75			
GMA3100M	●	10	30	10	150			
GMA3120	●	12	36	12	75			
GMA3120H	●	12	36	12	100			
GMA3120M	●	12	36	12	150			
GMA3160	●	16	48	16	100			
GMA3200	●	20	50	20	100			
GMA3200L160	●	20	60	20	100			





## GMA 3000系列切削參數

The Cutting Data For GMA 3000 Series

被加工材質  
Material

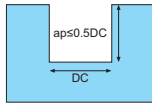
鋁合金  
Aluminum

銅  
Copper

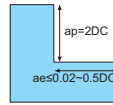
直徑 (mm) Shank		4	6	8	10	12	16	20
轉速 n (min)		15500	10500	8000	6400	5400	3900	3200
進給速度 Vf (mm/min)	開槽 Slotted	800	900	1000	1100	950	950	900
	側邊 Side	1200	1400	1600	1700	1500	1500	1300

### 切削深度 Cutting depth

開槽 Slotted

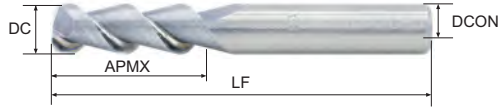


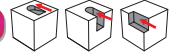
側邊 Side



ap : 軸向切削深度 Axial depth of cutting  
 ae : 徑向切削深度 Radial depth of cutting  
 DC : 刃徑 Diameter of cutting

**HMA 2000**

 鋁用 2 刃鏤鋼立銑刀  
 For Aluminum Alloy 2 Flutes End Mill


**新規格上市**  
 New Specification Arrival


產品型號 Model No	在庫 Stock	切削直徑 DC	切刃長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
HMA2010	●	1	3	4	50	
HMA2015	●	1.5	4.5	4	50	
HMA2020	●	2	6	4	50	
HMA2025	●	2.5	7.5	4	50	
HMA2030	●	3	9	4	50	
HMA2030E1	●	3	9	4	75	
HMA2030H		3	9	4	100	
HMA2040	●	4	12	4	50	
HMA2040E1	●	4	12	4	75	
HMA2040H		4	12	4	100	
HMA2050	●	5	15	6	50	
HMA2050E1	●	5	15	6	75	
HMA2050H		5	15	6	100	
HMA2060	●	6	18	6	50	
HMA2060E1	●	6	18	6	75	
HMA2060H		6	18	6	100	
HMA2070		7	21	8	60	
HMA2080	●	8	24	8	60	
HMA2080E1		8	24	8	75	
HMA2080H		8	24	8	100	
HMA2080M	●	8	24	8	150	
HMA2090		9	27	10	75	
<b>NEW</b> HMA2095	●	9.5	28.5	10	75	
HMA2100	●	10	30	10	75	
HMA2100H	●	10	30	10	100	
HMA2100M	●	10	30	10	150	
HMA2110		11	33	12	75	
HMA2120	●	12	36	12	75	
HMA2120H		12	36	12	100	
HMA2120M		12	36	12	150	
<b>NEW</b> HMA2160	●	16	48	16	100	



## HMA 2000系列切削參數

The Cutting Data For HMA 2000 Series

被加工材質  
Material

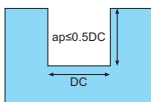
鋁合金  
Aluminum

銅  
Copper

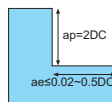
直徑 (mm) Shank		4	6	8	10	12	16	20
轉速 n (min)		15500	10500	8000	6400	5400	3900	3200
進給速度 (mm/min) V <sub>f</sub>	開槽 Slotted	800	900	1000	1100	950	950	900
	側邊 Side	1200	1400	1600	1700	1500	1500	1300

### 切削深度 Cutting depth

開槽 Slotted

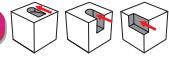


側邊 Side



- ap : 軸向切削深度 Axial depth of cutting
- ae : 徑向切削深度 Radial depth of cutting
- DC : 刃徑 Diameter of cutting

**HMA 3000** 鋁用 3 刃鎢鋼立銼刀  
 For Aluminum Alloy 3 Flutes End Mill


 新規格上市  
 New Specification Arrival


產品型號 Model No	在庫 Stock	切削直徑 DC	切刃長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
HMA3010	●	1	3	4	50	
HMA3015	●	1.5	4.5	4	50	
HMA3020	●	2	6	4	50	
HMA3025	●	2.5	7.5	4	50	
HMA3030	●	3	9	4	50	
HMA3040	●	4	12	4	50	
HMA3050	●	5	15	6	50	
HMA3060	●	6	18	6	50	
HMA3070	●	7	21	8	60	
HMA3080	●	8	24	8	60	
HMA3090	●	9	27	10	75	
HMA3100	●	10	30	10	75	
HMA3110	●	11	33	12	75	
HMA3120	●	12	36	12	75	
HMA3160	●	16	48	16	100	
HMA3200	●	20	50	20	100	
HMA3200L160	●	20	60	20	100	


**HMA 3000系列切削參數**  
 The Cutting Data For HMA 3000 Series

 被加工材質  
 Material

 鋁合金  
 Aluminum

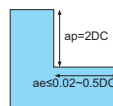
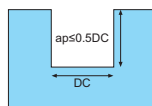
 銅  
 Copper

直徑 (mm) Shank	4	6	8	10	12	16	20
轉速 n (min)	15500	10500	8000	6400	5400	3900	3200
進給速度 Vf (mm/min)	開槽 Slotted	800	900	1000	1100	950	900
	側邊 Side	1200	1400	1600	1700	1500	1300

**切削深度 Cutting depth**

開槽 Slotted

側邊 Side



ap : 軸向切削深度 Axial depth of cutting  
 ae : 徑向切削深度 Radial depth of cutting  
 DC : 刃徑 Diameter of cutting

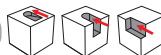


# MU2-GMA 3000

鋁用 3 刃圓溝 2 離陸鑄鋼立銑刀  
For Aluminum Alloy 3 Flutes Rounded Land Double Edge  
Carbide End Mill



新規格上市  
New Specification Arrival



產品型號 Model No	在庫 Stock	切削直徑 DC	切刃長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
MU2-GMA3040	●	4	12	4	50	
MU2-GMA3040D6	●	4	12	6	50	
NEW MU2-GMA3045L114	●	4.5	14	6	50	
MU2-GMA3050	●	5	15	6	50	
MU2-GMA3060	●	6	18	6	50	
MU2-GMA3080	●	8	24	8	60	
MU2-GMA3080E1	●	8	24	8	75	
MU2-GMA3080H	●	8	24	8	100	
NEW MU2-GMA3080M	●	8	24	8	150	
MU2-GMA3090L124	●	9	24	10	75	
MU2-GMA3100	●	10	30	10	75	
MU2-GMA3100M	●	10	30	10	150	
MU2-GMA3120	●	12	36	12	75	
MU2-GMA3120H	●	12	36	12	100	
MU2-GMA3120M	●	12	36	12	150	
MU2-GMA3160	●	16	48	16	100	
MU2-GMA3200	●	20	50	20	100	

## MU2-GMA 3000系列切削參數

The Cutting Data For MU2-GMA 3000 Series

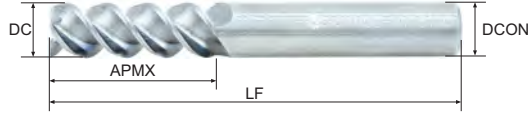
被加工材質  
Material

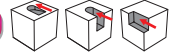
鋁合金  
Aluminum

銅  
Copper

直徑 (mm) Shank	4	6	8	9	10	12	16	20
轉速 n (min)	15500	10500	8000	7000	6400	5400	3900	3200
進給速度 (mm/min) Vf	開槽 Slotted	800	900	1000	1050	1100	950	900
	側邊 Side	1200	1400	1600	1680	1700	1500	1300

**MU2-HMA 3000**

 鋁用 3 刃圓溝 2 離線鎢鋼立銑刀  
 For Aluminum Alloy 3 Flutes Rounded Land Double Edge  
 Carbide End Mill


**新規格上市**  
 New Specification Arrival


產品型號 Model No	在庫 Stock	切削直徑 DC	切刃長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
MU2-HMA3040	●	4	12	4	50	
<b>NEW</b> MU2-HMA3050	●	5	15	6	50	
MU2-HMA3060	●	6	18	6	50	
<b>NEW</b> MU2-HMA3070	●	7	21	8	60	
MU2-HMA3080	●	8	24	8	60	
<b>NEW</b> MU2-HMA3090	●	9	27	10	75	
MU2-HMA3100	●	10	30	10	75	
MU2-HMA3120	●	12	36	12	75	
<b>NEW</b> MU2-HMA3160	●	16	48	16	100	

**MU2-HMA 3000系列切削參數**

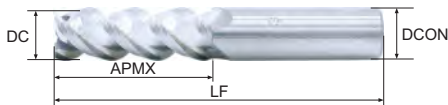
The Cutting Data For MU2-HMA 3000 Series

 被加工材質 Material 鋁合金 Aluminum 銅 Copper

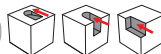
直徑 (mm) Shank		4	6	8	10	12	16
轉速 n (min)		15500	10500	8000	6400	5400	3900
進給速度 (mm/min) Vf	開槽 Slotted	800	900	1000	1100	950	950
	側邊 Side	1200	1400	1600	1700	1500	1500

# MU3-JMA 3000

鋁用 3 刃圓溝 3 離隙立銼刀  
For Aluminum Alloy 3 Flutes Rounded Land Triple Edge End Mill



**新規格上市**  
New Specification Arrival



產品型號 Model No	在庫 Stock	切削直徑 DC	切刃長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
MU3-JMA3040	●	4	12	4	50	
MU3-JMA3050	●	5	15	6	50	
<b>NEW</b> MU3-JMA3050D5	●	5	15	5	50	
MU3-JMA3060	●	6	18	6	50	
MU3-JMA3060E1	●	6	18	6	75	
MU3-JMA3080	●	8	24	8	60	
MU3-JMA3080E1	●	8	24	8	75	
MU3-JMA3100	●	10	30	10	75	
MU3-JMA3100H	●	10	30	10	100	
MU3-JMA3120	●	12	36	12	75	
MU3-JMA3160	●	16	48	16	100	
<b>NEW</b> MU3-JMA3160L170M	●	16	70	16	150	
<b>NEW</b> MU3-JMA3160L180M	●	16	80	16	150	
MU3-JMA3200	●	20	50	20	100	
<b>NEW</b> MU3-JMA3200L1110R	●	20	110	20	200	
<b>NEW</b> MU3-JMA3200L160R	●	20	60	20	200	

## MU3-JMA 3000系列切削參數

The Cutting Data For MU3-JMA 3000 Series

被加工材質  
Material

鋁合金  
Aluminum

銅  
Copper

直徑 (mm) Shank	4	5	6	8	10	12	16	20
轉速 n (min)	15500	12800	10500	8000	6400	5400	3900	3200
進給速度 (mm/min) Vf	開槽 Slotted	1600	1600	900	1000	1100	950	900
	側邊 Side	2300	2100	1400	1600	1700	1500	1300