B

鎢鋼端銑刀

Carbide End Mill

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- DMR 2000R00L2 ········ B75
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Engraving Aluminum Type Series
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◎鋁用刀系列
Aluminum Type Series
- GMA 2000 ········ B104
- GMA 3000 ········ B105
- HMA 2000 ········ B106
- NEW HMA 3000 ········ B107
- MU2-GMA 3000 ········ B108
- MU2-HMA 3000 ········ B109
- NEW MU3-JMA 3000 ········ B110

鎢鋼端銑刀識別系統

Carbide End Mill Identification System

MUH - E M M L

1 2 3 4 5

1 特徵 Feature | 2 螺旋角 Helix Angle | 3 材質 Grade | 4 用途 Application | 5 長刃 / 長頸 Long Flute(or Neck)

1 特徵 Feature

記號 Sign	特 徵 Feature
S	微小徑 Micro Diameter
EA	平行雕刻刀 Engraving Blanks Precision Ground
EB	30°雕刻刀 30° Engraving Blanks Precision Ground
ET	60°雕刻刀 60° Engraving Blanks Precision Ground
EC	90°雕刻刀 90° Engraving Blanks Precision Ground
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 Irregular Pitch
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
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°
DS	定位鑽夾角80° Position Drill 80°
DC	定位鑽夾角90° Position Drill 90°
DR	定位鑽夾角120° Position Drill 120°
RU	圓溝粗加工粗銑 Rounded Land Roughing
CU	圓溝中工粗銑 Rounded Land Medium Roughing
FU	圓溝精加工粗銑 Rounded Land Finishing Roughing
FM	精加工粗銑 Fine Pitch & Finishing Roughing
CM	中加工粗銑 Fine Pitch & Medium Roughing
RM	粗加工粗銑 Fine Pitch & Roughing
CFM	複合材料精加工 For Composiutes Finishing
V	鳩尾槽 Dove-Tail Groove
VV	雙刃鳩尾槽 Double-Edge Dove-Tail Groove
CB	30°V型鳩尾槽刀 V Type Dove-Tail Groove 30°
CR	60°V型鳩尾槽刀 V Type Dove-Tail Groove 60°
CC	90°V型鳩尾槽刀 V Type Dove-Tail Groove 90°
CE	140°V型鳩尾槽刀 V Type Dove-Tail Groove 140°
RL	鉸刀左螺旋 Reamer Left Screw
BS	沉頭銑刀 Countersunk End Mill

2 000 XXX - DIN

6 刃數 Flute
7 切削直徑 Cutting Diameter
8 其他 Other
9 歐洲規格 Specification for Europe market

2 螺旋角 Helix Angle

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

3 材質 Grade

記號 Sign	材質代號 Grade
E	E300
G	G300
H	H300
M	M500
W	W500
P	P550
Y	Y500

4 用途 Application

記號 Sign	用途說明 Application
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
A	鋁用刀 Aluminum

8 其他 Other

R□□	R角 Radius ex：R02=R0.2mm	特殊全長 Special L.F	C：50mm	D：60mm	E1：75mm
T□□	錐度刃度數 Tapered ex：T005=0.5°		H：100mm	M：150mm	R：200mm
C□□	倒角長度 Chamfer Length ex：C02=0.2mm	X□□□□	特殊角度 Special Angle ex：X40.45=鳩尾槽刀刃角40°，導角45° The angle of dove tail mill is 40°, chamfering is 45°.		
D□□	特殊柄部直徑 Special Shank Dia ex：D6=6mm				
L1	特殊切刃長度 Special Flute Length				
L2	特殊可使用長度 Special Length				

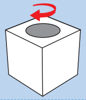
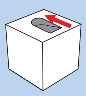
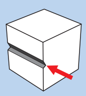
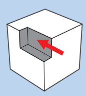
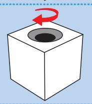
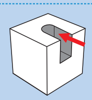
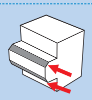
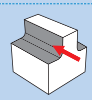
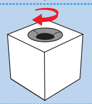
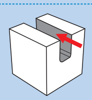
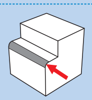
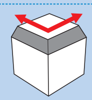
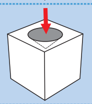
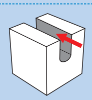
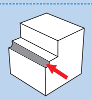
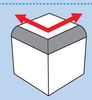
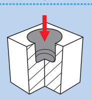
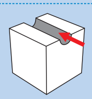
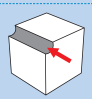
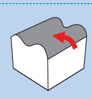
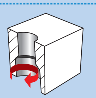
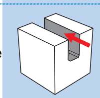
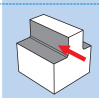
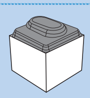
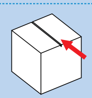
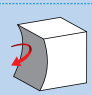
規格圖標指南

Specification Icon Guide

圖標 Icon	說明 Explanation	圖標 Icon	說明 Explanation
MG	超微粒子超硬合金 Micro Grain Carbide	Altin AlTin Coating　TiSin TiSin Coating	AlTin 鋁鈦氮塗層 TiSin 矽鈦塗層
µm 0.5	精度單位 Accuracy	E 300　G 300　H 300　M 500　W 500　P 550　Y 500	材質 Grade
CO 10%　CO 12%	含鈷量 Cobalt Content	0°　25°　30°　35°　40°　45°　50°	螺旋角度 Helix Angle
HRC <55　HRC <65	可被切削材硬度 Hardness of workpiece	55°　65°　120°　35°/38°　38°/40°　39°/41°　42°/45°	

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		R角側銑 R Corner Side Milling
	圓孔外R倒角 Round Hole Outside R Chamfering		R角開槽 R Corner Slotced		背面外R倒角 Backside R Chamfering		倒角 Chamfer
	定位加工 Position Processing		R溝槽 R Slot		背面內R倒角 Backside Inner R Chamfering		外R倒角 Outer R Chamfer
	R角鑽孔 R Corner Drilling		內R開槽 Internal R Slotced		內R角側銑 Internal R Corner Side Milling		曲面銑削 Surface Milling
	側面V槽 Side V Groove Processing		倒角開槽 Chamfer Slotced		倒角側銑 Chamfer Side Milling		仿型銑削 Profile Milling
					雕刻銑削 Carving milling		拋物線銑削 Parabolic Milling

材質銑削推薦表

Recoommend 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（高精度 High Precision → 輕切削 Light Cutting → 重切削 Roughing Cutting）	P 一般鋼 Steel	P 合金鋼 Alloy Steel	P 碳鋼 Carbon Steel	M 不鏽鋼 Stainless Steel	K 鑄鐵 Cast Iron	X 銅 Copper	N 鋁合金 Aluminum	N 複合材質 Composites	H 高硬度材 High Hardness Material	S 難切削材 Hard to Cut Material
平刀塗層 Square End Mill Coating (PVD)	MUH-IGM	◎	◎	○	◎	◎	○			○	
	MUH-IEM	◎	◎	◎	○	◎	○			○	
	MUH-IPM、MUH-FPM	◎	◎	◎	○	◎	○				○
	MUH-IMM、MUH-IMM-DIN、LUH-IMM	◎	◎	◎	○	◎	○				
	MUH-GMM、MUH-FMM	◎	◎	○	◎	◎	○				
	MU-GMM、MU-EMM	◎	◎	○	◎	◎	○				
	MU2-GPM	◎	◎	○	○	◎	○				○
	EMM、GMM	◎	◎	○	◎	◎	○				
	EPM	◎	◎	◎	○	◎	○				○
圓鼻刀塗層 Corner Radius Type Coating (PVD)	DMR	◎	◎	○	◎	◎					
	GPR、PH-FER、PH-FMR	◎	◎	◎	○	◎					
	PH-FPR、PH-FPC	◎	◎	◎	○	◎					○
球頭刀塗層 Ball Nose Type Coating (PVD)	EMB	◎	◎	○	◎	◎	○				
	EEB	◎	◎	◎	○	◎	○			○	
	DMB	◎	◎	◎	○	◎	○				
	EPB	○	○	◎	◎		○				○
	DPB、PA-DPB	○	○	◎	◎	○					○
內R角刀塗層 Inner Radius Type Coating (PVD)	EPU	◎	◎	◎	○	◎	○				○
外R倒角刀塗層 Outer Radius Countersink Type Coating (PVD)	AMI	◎	◎	◎	◎	○	○				
倒角刀塗層 Countersink Coating (PVD)	DC-DMC、CR-DMC、DT-DMC	◎	◎	○	◎	◎	○	○			
	DC-DPC	◎	◎	◎	◎	◎	○	○			○
	DC-DWC、DC-DMM						○	◎			
	CC-AMC、CR-AMC	◎	◎	○	◎	◎	○	○			
粗、精銑刀塗層 Roughing vs. Finishing Cutter Coating (PVD)	FM-CMM	◎	◎	○	◎	◎	○				
	RM-CMM	◎	◎	○	◎	◎	○				
	CFM-DMM								◎		
鋁用銑刀 (無塗層) Aluminum Carbide End Mill Without Coating	GMA						○	◎			
	HMA						○	◎			
	MU2-GMA						○	◎			
	MU2-HMA						○	◎			
	MU3-JMA						○	◎			
	EA-AMA						○	◎			
	EB-AMC						○	◎			

平刀鎢鋼端銑刀索引表

For Square Type Carbide End Mill Series Index

產品形狀 Item Style	柄部直徑 Shank (mm)	規格圖標 Description	頁碼 Page
S-EMM 2000 	Ø4	MG, μm 0.5, CO 12%, HRC<55, M 500, 35°, Altin	B12
S-EMML 2000L2 	Ø4	MG, μm 0.5, CO 12%, HRC<55, M 500, 35°, Altin	B13－B14
NEW S-OGM 2000 	Ø4 Ø6	MG, μm 0.5, CO 12%, HRC<55, G 300, 40°, Altin	B15－B17
NEW EMM 2000 	Ø4 Ø10 Ø20 Ø6 Ø12 Ø8 Ø16	MG, μm 0.5, CO 12%, HRC<55, M 500, 35°, Altin	B18－B19
NEW EMM2000L1 	Ø4 Ø10 Ø6 Ø12 Ø8	MG, μm 0.5, CO 12%, HRC<55, M 500, 35°, Altin	B20－B24
NEW EMM 3000 	Ø6 Ø16 Ø8 Ø10	MG, μm 0.5, CO 12%, HRC<55, M 500, 35°, Altin	B25
NEW EMM 4000 	Ø4 Ø10 Ø18 Ø6 Ø12 Ø20 Ø8 Ø16	MG, μm 0.5, CO 12%, HRC<55, M 500, 35°, Altin	B26－B27
EMM 4000L1 	Ø4 Ø10 Ø20 Ø6 Ø12 Ø8 Ø16	MG, μm 0.5, CO 12%, HRC<55, M 500, 35°, Altin	B28
EMM 2000T00 	Ø4 Ø10 Ø6 Ø12 Ø8	MG, μm 0.5, CO 12%, HRC<55, M 500, 35°, Altin	B29
NEW EPM 2000L1 	Ø4 Ø10 Ø6 Ø12 Ø8	MG, μm 0.5, CO 12%, HRC<65, P 550, 35°, TiSin	B30
NEW EPM 3000 	Ø5 Ø10 Ø6 Ø8	MG, μm 0.5, CO 12%, HRC<65, P 550, 35°, TiSin	B31－B32
NEW GMM 4000 	Ø4 Ø10 Ø20 Ø6 Ø12 Ø25 Ø8 Ø16	MG, μm 0.5, CO 12%, HRC<55, M 500, 45°, Altin	B33－B34
MU-EMM 4000 	Ø4 Ø10 Ø20 Ø6 Ø12 Ø8 Ø16	MG, μm 0.5, CO 12%, HRC<55, M 500, 35°, Altin	B35－B36
NEW MU-GMM 4000 	Ø4 Ø10 Ø20 Ø6 Ø12 Ø8 Ø16	MG, μm 0.5, CO 12%, HRC<55, M 500, 45°, Altin	B37－B40
NEW MU2-GPM 4000 	Ø4 Ø10 Ø20 Ø6 Ø12 Ø8 Ø16	MG, μm 0.5, CO 12%, HRC<65, P 550, 45°, Altin	B41

平刀鎢鋼端銑刀索引表

For Square Type Carbide End Mill Series Index

產品形狀 Item Style		柄部直徑 Shank (mm)	規格圖標 Description	頁碼 Page
NEW MUH-GMM 4000		Ø4 Ø10 Ø20 Ø6 Ø12 Ø8 Ø16	MG, µm 0.5, CO 12%, HRC<55 M 500, 45°, Altin	B42
NEW MUH-IMM 4000		Ø4 Ø10 Ø20 Ø6 Ø12 Ø8 Ø16	MG, µm 0.5, CO 12%, HRC<55 M 500, 42° 45°, Altin	B43－B44
NEW MUH-IMM 4000-DIN		Ø4 Ø10 Ø20 Ø6 Ø12 Ø8 Ø16	MG, µm 0.5, CO 12%, HRC<55 M 500, 42° 45°, Altin	B45
NEW MUH-FMM 4000		Ø4 Ø10 Ø20 Ø6 Ø12 Ø8 Ø16	MG, µm 0.5, CO 12%, HRC<55 M 500, 35° 38°, Altin	B46－B47
NEW MUH-IGM 4000		Ø4 Ø10 Ø6 Ø12 Ø8	MG, µm 0.5, CO 10%, HRC<55 G 300, 42° 45°, Altin	B48
NEW MUH-IEM 4000		Ø4 Ø10 Ø6 Ø12 Ø8	MG, µm 0.5, CO 10%, HRC<65 E 300, 42° 45°, TiSin	B49
MUH-IPM 3000L1		Ø4 Ø10 Ø6 Ø12 Ø8 Ø16	MG, µm 0.5, CO 12%, HRC<65 P 550, 42° 45°, TiSin	B50
NEW MUH-IPM 4000		Ø4 Ø10 Ø20 Ø6 Ø12 Ø8 Ø16	MG, µm 0.5, CO 12%, HRC<65 P 550, 42° 45°, TiSin	B51－B52
MUH-FPM 4000		Ø4 Ø10 Ø20 Ø6 Ø12 Ø8 Ø16	MG, µm 0.5, CO 12%, HRC<65 P 550, 35° 38°, TiSin	B53
LUH-IMM 4000		Ø6 Ø8 Ø10	MG, µm 0.5, CO 12%, HRC<55 M 500, 42° 45°, Altin	B54
GMM 6000		Ø4 Ø10 Ø20 Ø6 Ø12 Ø25 Ø8 Ø16	MG, µm 0.5, CO 12%, HRC<55 M 500, 45°, Altin	B55
FM-CMM 4000		Ø6 Ø12 Ø8 Ø16 Ø10	MG, µm 0.5, CO 12%, HRC<55 M 500, 25°, Altin	B56
RM-CMM 4000		Ø6 Ø12 Ø8 Ø16 Ø10	MG, µm 0.5, CO 12%, HRC<55 M 500, 25°, Altin	B56
CFM-DMM		Ø4 Ø10 Ø6 Ø12 Ø8	MG, µm 0.5, CO 12%, M 500 30°	B57

球頭鎢鋼端銑刀索引表

For Ball Nose Type Carbide End Mill Series Index

產品形狀 Item Style		柄部直徑 Shank (mm)	規格圖標 Description	頁碼 Page
S-EMB 2000		Ø4	MG, µm 0.5, CO 12%, HRC<55, M 500, 35°, AlTin	B58
S-EMB 2000L2		Ø4	MG, µm 0.5, CO 12%, HRC<55, M 500, 35°, AlTin	B59
EMB 2000L2		Ø6 Ø8	MG, µm 0.5, CO 12%, HRC<55, M 500, 35°, AlTin	B60－B61
EMB 2000		Ø4 Ø10 Ø20 Ø6 Ø12 Ø8 Ø16	MG, µm 0.5, CO 12%, HRC<55, M 500, 35°, AlTin	B62－B63
NEW EEB 2000		Ø4 Ø10 Ø6 Ø12 Ø8	MG, µm 0.5, CO 12%, HRC<65, E 300, 35°, TiSin	B64－B65
NEW DMB 2000		Ø4 Ø10 Ø6 Ø12 Ø8	MG, µm 0.5, CO 12%, HRC<55, M 500, 30°, AlTin	B66
NEW DPB 2000		Ø10	MG, µm 0.5, CO 12%, HRC<65, P 550, 30°, TiSin	B67
EPB 2000		Ø4 Ø10 Ø20 Ø6 Ø12 Ø8 Ø16	MG, µm 0.5, CO 12%, HRC<65, P 550, 35°, TiSin	B68
EPB 4000		Ø4 Ø10 Ø20 Ø6 Ø12 Ø8 Ø16	MG, µm 0.5, CO 12%, HRC<65, P 550, 35°, TiSin	B69
NEW EMB 4000		Ø4 Ø10 Ø20 Ø6 Ø12 Ø8 Ø16	MG, µm 0.5, CO 12%, HRC<55, M 500, 30°, AlTin	B70－B71

酒桶鎢鋼端銑刀索引表

Barrel Tungsten Carbide End Mill Series Index

產品形狀 Item Style		柄部直徑 Shank (mm)	規格圖標 Description	頁碼 Page
NEW PA-DPB		Ø6 Ø12 Ø8 Ø10	MG, µm 0.5, CO 12%, HRC<65, P 550, 30°, TiSin	B72－B73

內 R 角鎢鋼端銑刀索引表

Inner R Type Carbide End Mill Series Index

產品形狀 Item Style		柄部直徑 Shank (mm)	規格圖標 Description	頁碼 Page
EPU 4000L1		Ø2 Ø5 Ø10 Ø3 Ø6 Ø12 Ø4 Ø8 Ø16	MG, μm 0.5, CO 12%, HRC<65, P 550, 35°, TiSin	B74

圓鼻鎢鋼端銑刀索引表

For Corner Radius Type Carbide End Mill Series Index

產品形狀 Item Style		柄部直徑 Shank (mm)	規格圖標 Description	頁碼 Page
DMR 2000R00L2		Ø4 Ø10 Ø6 Ø12 Ø8	MG, μm 0.5, CO 12%, HRC<55, M 500, 30°, Altin	B75
NEW DMR 2000R00		Ø4 Ø10 Ø6 Ø12 Ø8	MG, μm 0.5, CO 12%, HRC<55, M 500, 30°, Altin	B76－B77
NEW DMR 4000R00		Ø4 Ø10 Ø6 Ø12 Ø8	MG, μm 0.5, CO 12%, HRC<55, M 500, 30°, Altin	B78－B80
NEW GPR 6000R00		Ø6 Ø12 Ø8 Ø16 Ø10 Ø20	MG, μm 0.5, CO 12%, HRC<65, P 550, 45°, TiSin	B81－B82
NEW PH-FER 4000R00		Ø4 Ø10 Ø6 Ø12 Ø8	MG, μm 0.5, CO 12%, HRC<65, E 300, 35 38, TiSin	B83－B84
NEW PH-FMR 4000R00		Ø4 Ø10 Ø6 Ø12 Ø8	MG, μm 0.5, CO 12%, HRC<55, M 500, 35 38, Altin	B85
NEW PH-FPR 4000R00		Ø4 Ø10 Ø6 Ø12 Ø8	MG, μm 0.5, CO 12%, HRC<65, P 550, 35 38, TiSin	B86
NEW PH-FPC 4000C00		Ø4 Ø10 Ø6 Ø12 Ø8	MG, μm 0.5, CO 12%, HRC<65, P 550, 35 38, TiSin	B87－B88

倒角專用鎢鋼端銑刀索引表

For Chamfer Type Carbide End Mill Series Index

產品形狀 Item Style		柄部直徑 Shank (mm)	規格圖標 Description	頁碼 Page
DC-DMC 2000		Ø3 Ø6 Ø12 Ø4 Ø8 Ø16 Ø5 Ø10 Ø20	MG, µm 0.5, CO 12%, HRC <55, M 500, 30°, Altin	B89－B90
DR-DMC 2000		Ø3 Ø6 Ø12 Ø4 Ø8 Ø16 Ø5 Ø10 Ø20	MG, µm 0.5, CO 12%, HRC <55, M 500, 30°, Altin	B91
NEW DT-DMC 2000		Ø3 Ø6 Ø12 Ø4 Ø8 Ø16 Ø5 Ø10 Ø20	MG, µm 0.5, CO 12%, HRC <55, M 500, 30°, Altin	B92
NEW DC-DMM 2000		Ø6 Ø12 Ø8 Ø16 Ø10 Ø20	MG, µm 0.5, CO 12%, HRC <55, M 500, 30°, Altin	B93－B94
NEW DC-DPC 2000		Ø3 Ø6 Ø12 Ø4 Ø8 Ø16 Ø5 Ø10 Ø20	MG, µm 0.5, CO 12%, HRC <65, P 550, 30°, TiSin	B95－B96
NEW DC-DWC 2000		Ø3 Ø6 Ø12 Ø4 Ø8 Ø16 Ø5 Ø10 Ø20	MG, µm 0.5, CO 12%, HRC <55, W 500, 30°	B97
NEW CC-AMC		Ø6 Ø12 Ø8 Ø10	MG, µm 0.5, CO 12%, HRC <55, M 500, Altin	B98－B99
CR-AMC		Ø6 Ø12 Ø8 Ø10	MG, µm 0.5, CO 12%, M 500, Altin	B99

外 R 倒角鎢鋼端銑刀索引表

Outer R Chamfer Carbide End Mill Series Index

產品形狀 Item Style		柄部直徑 Shank (mm)	規格圖標 Description	頁碼 Page
NEW AMI 2000		Ø4 Ø12 Ø6 Ø16 Ø8	MG, µm 0.5, CO 12%, HRC <55, M 500, Altin	B100

鋁用雕刻端銑刀索引表

Engraving for Aluminum End Mill Series Index

產品形狀 Item Style	柄部直徑 Shank (mm)	規格圖標 Description	頁碼 Page
NEW E180-AWA 1000L1	Ø3 Ø6 Ø12 Ø4 Ø8 Ø5 Ø10	MG, μm 0.5, CO 12%, HRC<55, W 500, 0°	B101-B102
NEW E030-AWC 1000L1 	Ø3 Ø6 Ø4 Ø5	MG, μm 0.5, CO 12%, HRC<55, W 500, 0°	B103

鋁合金專用鎢鋼端銑刀索引表

For Aluminum Type Carbide End Mill Series Index

產品形狀 Item Style	柄部直徑 Shank (mm)	規格圖標 Description	頁碼 Page
GMA 2000 	Ø6 Ø8 Ø10	MG, μm 0.5, CO 12%, M 500, 45°	B104
GMA 3000 	Ø4 Ø10 Ø20 Ø6 Ø12 Ø8 Ø16	MG, μm 0.5, CO 12%, M 500, 45°	B105
HMA 2000 	Ø4 Ø10 Ø6 Ø12 Ø8	MG, μm 0.5, CO 12%, M 500, 55°	B106
NEW HMA 3000 	Ø4 Ø10 Ø20 Ø6 Ø12 Ø8 Ø16	MG, μm 0.5, CO 12%, M 500, 55°	B107
MU2-GMA 3000 	Ø4 Ø10 Ø20 Ø6 Ø12 Ø8 Ø16	MG, μm 0.5, CO 12%, M 500, 45°	B108
MU2-HMA 3000 	Ø4 Ø10 Ø6 Ø12 Ø8	MG, μm 0.5, CO 12%, M 500, 55°	B109
NEW MU3-JMA 3000 	Ø4 Ø10 Ø20 Ø6 Ø12 Ø8 Ø16	MG, μm 0.5, CO 12%, M 500, 50°	B110

CHAIN® 益詮切削刀具

S-EMM 2000

微小徑 2 刃鎢鋼立銑刀
Micro Diameter 2 Flute Carbide End Mill

MG · μm 0.5 · CO 12% · HRC<55 · M500 · 35° · Altin

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	

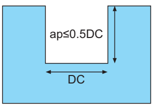
S-EMM 2000系列切削參數
The Cutting Data For S-EMM 2000 Series

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

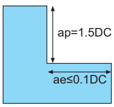
直徑 (mm) Shank		4
轉速 n (min)		4800
進給速度 Vf (mm/min)	開槽 Slotted	135
	側邊 Side	475

切削深度 Cutting depth

開槽 Slotted



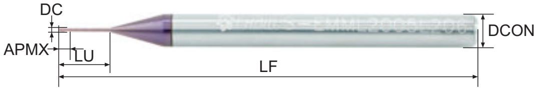
側邊 Side



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

長頸短刃 2 刃鎢鋼立銑刀
Long Neck Short Flute 2 Flutes 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	可使用長度 LU	標準全長 LF	價格 Price
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	

※ 請接下頁。 ※ Continued on next page.

產品型號 Model No	在庫 Stock	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
S-EMML2015L210		1.5	2.25	4	10	50	
S-EMML2015L212		1.5	2.25	4	12	50	
S-EMML2020L206		2	3	4	16	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	
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

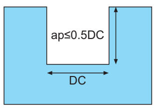
The Cutting Data For S-EMML 2000L2 Series

被加工材質 Material: 鋼 Steel | 不鏽鋼 Stainless steel | 鑄 鐵 Cast Iron

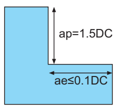
直徑 (mm) Shank		4
轉速 n (min)		4800
進給速度 Vf (mm/min)	開槽 Slotted	135
	側邊 Side	475

切削深度 Cutting depth

開槽 Slotted



側邊 Side

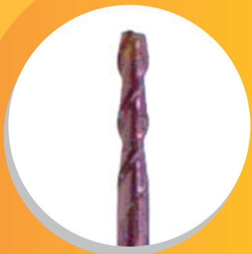


ap：軸向切削深度 Axial depth of cutting
ae：徑向切削深度 Radial depth of cutting
DC：刃徑 Diameter of cutting

S-OGM2000 series

微小徑
2 刃鎢鋼立銑刀

MADE IN TAIWAN
NEW ARRIVAL



全新OGM材質 **高耐磨 高韌性**

New OGM series **With high abrasion resistance**

可加工高硬度HRC 50˚～60˚
High ductility material

螺旋角採40˚設計
Helix Angle
40° Design

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.

- 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.

切削參數 The Cutting Data

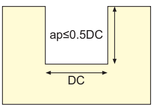
加工材質 Material

鋼 Steel | 不鏽鋼 Stainless steel | 鑄鐵 Cast Iron

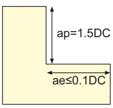
直徑 (mm) Shank		4	6
轉速 n (min)		4800	3100
進給速度 Vf (mm/min)	開槽 Slotted	135	120
	側邊 Side	475	375

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

S-OGM 2000

微小徑 2 刃鎢鋼立銑刀
Micro Diameter 2 Flute Carbide End Mill

新品上市 New Arrival　MG　μm 0.5　CO 12%　HRC<55　G 300　40°　Altin

	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	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	

※ 請接下頁。　※ Continued on next page.

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 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	

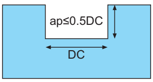
S-OGM 2000系列切削參數
The Cutting Data For S-OGM 2000 Series

被加工材質 Material: 鋼 Steel | 不鏽鋼 Stainless steel | 鑄 鐵 Cast Iron

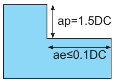
直徑 (mm) Shank		1	2	3
轉速 n (min)		19100	9550	6400
進給速度 Vf (mm/min)	開槽 Slotted	180	190	190
	側邊 Side	380	380	380

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 2000

2 刃鎢鋼立銑刀
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 DC	切刃長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
EMM2010	●	1	2.5	4	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	
NEW EMM2030L109D3	●	3	9	3	50	
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	
EMM2040E1	●	4	10	4	75	
EMM2045	●	4.5	11.25	6	50	
EMM2047	●	4.7	11.75	6	50	
EMM2050	●	5	12.5	6	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 DC	切刃長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
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	
NEW EMM2080L140M	●	8	40	8	150	
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	

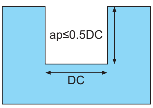
EMM 2000系列切削參數
The Cutting Data For EMM 2000 Series

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

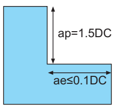
直徑 (mm) Shank		3	4	6	8	10	12	16	20
轉速 n (min)		4800	4800	3100	2300	1900	1600	1200	950
進給速度 Vf (mm/min)	開槽 Slotted	135	135	120	120	120	120	135	135
	側邊 Side	475	475	325	375	375	275	200	165

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 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 DC	切刃長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
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	

※ 請接下頁。 ※ Continued on next page.

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
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	
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	

※ 請接下頁。 ※ Continued on next page.

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
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	6	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	
NEW EMM2080L124H	●	8	24	8	100	
NEW EMM2080L140M	●	8	24	8	150	

※ 請接下頁。 ※ Continued on next page.

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
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	

※ 請接下頁。 ※ Continued on next page.

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
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

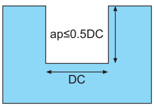
The Cutting Data For EMM 2000L1 Series

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

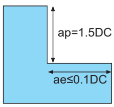
直徑 (mm) Shank		4	6	8	10	12	16	20
轉速 n (min)		4800	3100	2300	1900	1600	1200	950
進給速度 Vf (mm/min)	開槽 Slotted	135	120	120	120	120	135	135
	側邊 Side	475	325	375	375	275	200	165

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

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
EMM3050	●	5	12.5	6	50	
EMM3055L1165	●	5.5	16.5	6	50	
EMM3060	●	6	15	6	50	
EMM3080	●	8	20	8	60	
EMM3100	●	10	25	10	75	
EMM3100L130	●	10	30	10	75	
NEW EMM2120L136	●	12	36	12	75	
NEW EMM3160	●	16	48	16	100	

EMM 3000系列切削參數

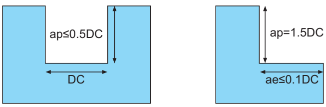
The Cutting Data For EMM 3000 Series

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 Vf (mm/min)	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 DC	切刃長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
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	
EMM4030E1	●	3	7.5	4	75	
EMM4030D6	●	3	7.5	6	50	
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	
EMM4065	●	6.5	16.25	8	60	
EMM4070	●	7	17.5	8	60	

※ 請接下頁。 ※ Continued on next page.

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
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	
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	
NEW EMM4180M	●	18	45	20	150	
EMM4200	●	20	50	20	100	
EMM4200M	●	20	50	20	150	
EMM4200R	●	20	50	20	200	

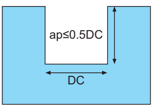
EMM 4000系列切削參數
The Cutting Data For EMM 4000 Series

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

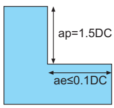
直徑 (mm) Shank		4	6	8	10	12	16	18	20
轉速 n (min)		4800	3100	2300	1900	1600	1200	1240	1060
進給速度 Vf (mm/min)	開槽 Slotted	200	180	180	180	180	200	225	300
	側邊 Side	700	500	580	580	410	300	450	240

切削深度 Cutting depth

開槽 Slotted



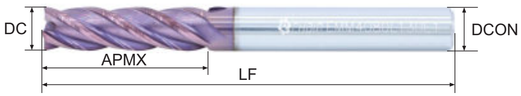
側邊 Side



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 刃鎢鋼立銑刀
Long Flute 4 Flutes 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
EMM4030L109D6	●	3	9	6	50	
EMM4040L120E1	●	4	20	4	75	
EMM4050L125E1	●	5	25	6	75	
EMM4060L125E1	●	6	25	6	75	
EMM4060L130H	●	6	30	6	100	
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	
EMM4130L139	●	13	39	16	100	
EMM4140L142	●	14	42	16	100	
EMM4160L170M	●	16	70	16	150	
EMM4200L180M	●	20	80	20	150	

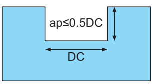
EMM 4000L1系列切削參數
The Cutting Data For EMM 4000L1 Series

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

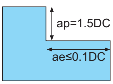
直徑 (mm) Shank		4	6	8	10	12	16	18	20
轉速 n (min)		4800	3100	2300	1900	1600	1200	1240	1060
進給速度 Vf (mm/min)	開槽 Slotted	200	180	180	180	180	200	225	300
	側邊 Side	700	500	580	580	410	300	450	240

切削深度
Cutting depth

開槽 Slotted



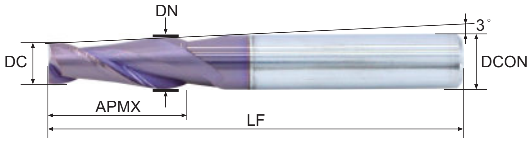
側邊 Side



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 2000T00

斜度 2 刃鎢鋼立銑刀
2 Flutes Tapered Carbied 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	
EMM2080T030D12		8	25	12	75	10.62	

EMM 2000T00系列切削參數

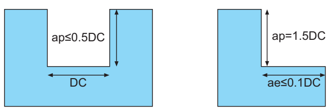
The Cutting Data For EMM 2000T00 Series

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 Vf (mm/min)	開槽 Slotted	135	120	120	120	120	120
	側邊 Side	475	325	375	375	275	275

切削深度 Cutting depth

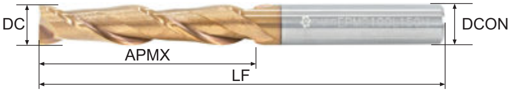
開槽 Slotted　　側邊 Side



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

EPM 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 DC	切刃長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
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	
NEW EPM2120L150H	●	12	50	12	100	
EPM2120L150M	●	12	50	12	150	

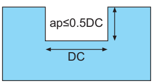
EPM 2000L1系列切削參數
The Cutting Data For EPM 2000L1 Series

被加工材質 Material：合金鋼 Alloy Steel　碳 鋼 Carbon Steel

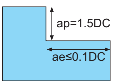
直徑 (mm) Shank		4	6	8	10	12	16	20
轉速 n (min)		4800	3100	2300	1900	1600	1200	950
進給速度 Vf (mm/min)	開槽 Slotted	135	120	120	120	120	135	135
	側邊 Side	475	325	375	375	275	200	165

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

EPM3000 series

3 刃鎢鋼立銑刀

3 Flutes Carbide End Mill

可側銑 可插槽

Can be side milling and slot

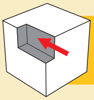
全新鎢鋼刀體，獨特刃體結構設計，
降低加工震動，提升刀具使用壽命，
加強排屑效率。

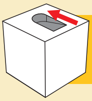
The newest carbide end mills, unique blade structure design, reduce the vibration generated during processing, improve tool life, enhance the effect of remove chip.

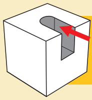
螺旋角35˚設計
Helix angle 35° design

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

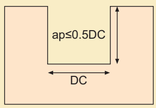
切削參數 The Cutting Data

直徑 (mm) Shank		5	5.5	6	8	10
轉速 n (min)		3800	3500	3100	2300	1900
進給速度 Vf (mm/min)	開槽 Slotted	230	230	240	240	240
	側邊 Side	650	650	650	750	750

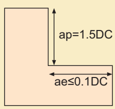
ap：軸向切削深度 Axial depth of cutting
ae：徑向切削深度 Radial depth of cutting
DC：刃徑 Diameter of cutting

切削深度 Cutting depth

開槽 Slotted



側邊 Side



EPM 3000

3 刃鎢鋼立銑刀
3 Flutes 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
NEW	EPM3050	●	5	12.5	5	50	
NEW	EPM3055L1165		5.5	16.5	6	50	
NEW	EPM3060		6	15	6	50	
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

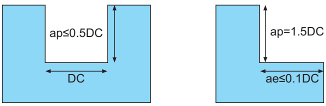
The Cutting Data For EPM 3000 Series

被加工材質 Material: 合金鋼 Alloy Steel / 碳 鋼 Carbon Steel

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	700	500	600	580	580

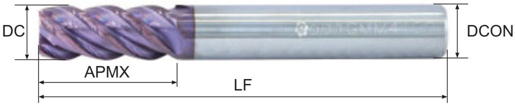
切削深度 Cutting depth

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

GMM 4000 4刃鎢鋼立銑刀 4 Flutes Carbied 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
GMM4010	●	1	2.5	4	50	
GMM4010L103	●	1	3	4	50	
GMM4015	●	1.5	3.75	4	50	
NEW 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	
GMM4025L107	●	2.5	7	4	50	
NEW GMM4025L106	●	2.5	6	4	50	
GMM4025L1075	●	2.5	7.5	4	50	
GMM4030	●	3	7.5	4	50	
GMM4030L112D6	●	3	12	6	50	
GMM4030L109	●	3	9	4	50	
GMM4035	●	3.5	8.75	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	

※ 請接下頁。 ※ Continued on next page.

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
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	
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

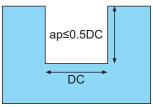
The Cutting Data For GMM 4000 Series

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

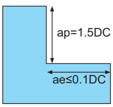
直徑 (mm) Shank		4	6	8	10	12	16	20	25
轉速 n (min)		4800	3100	2300	1900	1600	1200	1060	800
進給速度 Vf (mm/min)	開槽 Slotted	270	240	240	240	240	270	250	230
	側邊 Side	950	650	750	750	550	400	400	320

切削深度
Cutting depth

開槽 Slotted



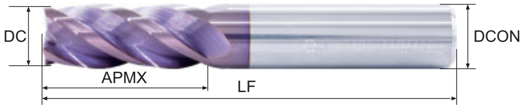
側邊 Side



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-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 DC	切刃長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
MU-EMM4030	●	3	7.5	4	50	
MU-EMM4030L109D6	●	3	9	6	50	
MU-EMM4030D6	●	3	7.5	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	

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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
MU-EMM4140	●	14	35	16	100	
MU-EMM4160	●	16	48	16	100	
MU-EMM4160L160M	●	16	60	16	150	
MU-EMM4200	●	20	50	20	100	

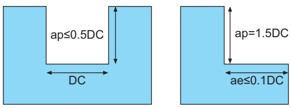
MU-EMM 4000系列切削參數
The Cutting Data For MU-EMM 4000 Series

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 Vf (mm/min)	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 刃鎢鋼立銑刀
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 DC	切刃長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
NEW MU-GMM4010	●	1	2.5	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	
NEW 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	
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	

※ 請接下頁。 ※ Continued on next page.

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
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	
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	
MU-GMM4060L118	●	6	18	6	50	
MU-GMM4060E1	●	6	15	6	75	
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	

※ 請接下頁。 ※ Continued on next page.

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
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	
MU-GMM4080E1	●	8	20	8	75	
MU-GMM4080H	●	8	20	8	100	
MU-GMM4080M	●	8	20	8	150	
MU-GMM4080L124	●	8	24	8	60	
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	

※ 請接下頁。 ※ Continued on next page.

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
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-GMM4100H	●	10	25	10	100	
MU-GMM4100L130	●	10	30	10	75	
MU-GMM4100L130H	●	10	30	10	100	
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	
MU-GMM4140	●	14	35	16	100	
MU-GMM4160	●	16	48	16	100	
MU-GMM4160M	●	16	48	16	150	
MU-GMM4180	●	18	45	20	100	
MU-GMM4200	●	20	50	20	100	

MU-GMM 4000系列切削參數

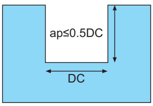
The Cutting Data For MU-GMM 4000 Series

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

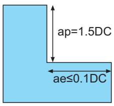
直徑 (mm) Shank		4	6	8	10	12	16	20
轉速 n (min)		4800	3100	2300	1900	1600	1200	1060
進給速度 Vf (mm/min)	開槽 Slotted	270	240	240	240	240	270	250
	側邊 Side	950	650	750	750	550	400	400

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

MU2-GPM 4000

4刃圓溝雙離隙鎢鋼立銑刀
4 Flutes Rounded Land Double Edge Carbide End Mill

新規格上市 New Specification Arrival
MG | µm 0.5 | CO 12% | HRC<65 | P 550 | 45° | TiSin

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-GPM4040	●	4	10	4	50	
MU2-GPM4050	●	5	12.5	6	50	
NEW 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	

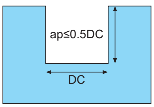
MU2-GPM 4000系列切削參數
The Cutting Data For MU2-GPM 4000 Series

被加工材質 Material: 合金鋼 Alloy Steel | 碳 鋼 Carbon Steel

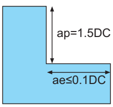
直徑 (mm) Shank		4	6	8	10	12	16	20
轉速 n (min)		6000	4000	2900	2400	1900	1500	1200
進給速度 Vf (mm/min)	開槽 Slotted	420	420	420	420	420	420	420
	側邊 Side	1100	800	950	750	500	480	400

切削深度
Cutting depth

開槽 Slotted



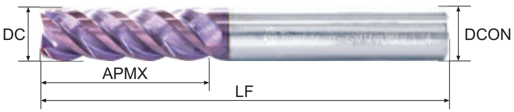
側邊 Side

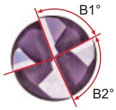


ap：軸向切削深度 Axial depth of cutting
ae：徑向切削深度 Radial depth of cutting
DC：刃徑 Diameter of cutting

MUH-GMM 4000

不等分割 4 刃鎢鋼立銑刀
4 Flutes Unequal Division Carbide End Mill





不等分割
Unequal Division
B1° ≠ B2°

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
MUH-GMM4040	●	4	10	4	50	
NEW MUH-GMM4040L112	●	4	12	4	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	

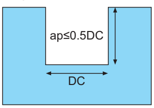
MUH-GMM 4000系列切削參數
The Cutting Data For MUH-GMM 4000 Series

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

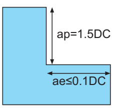
直徑 (mm) Shank		4	6	8	10	12	16	20
轉速 n (min)		6000	4000	2900	2400	1900	1500	1200
進給速度 Vf (mm/min)	開槽 Slotted	420	420	420	420	420	420	420
	側邊 Side	1100	800	950	750	500	480	400

切削深度
Cutting depth

開槽 Slotted



側邊 Side

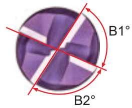


ap：軸向切削深度 Axial depth of cutting
ae：徑向切削深度 Radial depth of cutting
DC：刃徑 Diameter of cutting

MUH-IMM 4000

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

不等螺旋
Unequal Spiral
A1° ≠ A2°



不等分割
Unequal Division
B1° ≠ B2°

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	
MUH-IMM4040L112D6	●	4	12	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	
MUH-IMM4080	●	8	20	8	60	
MUH-IMM4080L124	●	8	24	8	60	
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-IMM4120H	●	12	30	12	100	
MUH-IMM4120L136	●	12	36	12	75	
MUH-IMM4120L145H	●	12	45	12	100	
MUH-IMM4120L155H	●	12	55	12	100	
MUH-IMM4140	●	14	35	16	100	
MUH-IMM4150	●	15	37.5	16	100	
MUH-IMM4160	●	16	48	16	100	

※ 請接下頁。 ※ Continued on next page.

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
MUH-IMM4160L155	●	16	55	16	100	
MUH-IMM4180	●	18	45	20	100	
MUH-IMM4200	●	20	50	20	100	
NEW MUH-IMM4200L1130R	●	20	130	20	200	

MUH-IMM 4000系列切削參數

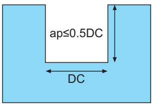
The Cutting Data For MUH-IMM 4000 Series

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

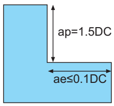
直徑 (mm) Shank		4	6	8	10	12	16	20
轉速 n (min)		6000	4000	2900	2400	1900	1500	1200
進給速度 (mm/min) Vf	開槽 Slotted	420	420	420	420	420	420	420
	側邊 Side	1100	800	950	750	500	480	400

切削深度 Cutting depth

開槽 Slotted



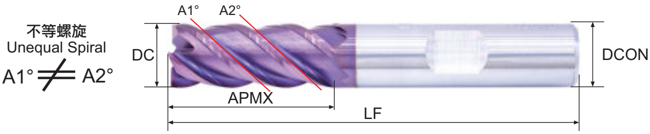
側邊 Side



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-IMM 4000-DIN

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



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
MUH-IMM4040-DIN		4	10	4	50	
MUH-IMM4040D6-DIN	●	4	10	6	50	
NEW MUH-IMM4060-DIN	●	6	12	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	

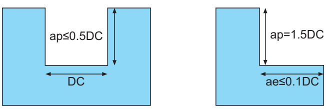
MUH-IMM 4000-DIN系列切削參數
The Cutting Data For MUH-IMM 4000-DIN Series

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 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

MADE IN TAIWAN NEW ARRIVAL

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

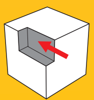
Unequal division to improve seismic resistance of high-speed feed machining.

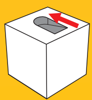
不等螺旋角利於高速加工抗崩裂性

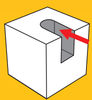
Unequal helix angle to improve high tree processing resistance to chipping.

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

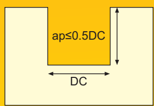
- 鋼 Alloy Steel
- 不鏽鋼 Stainless Steel
- 鑄 鐵 Cast Iron

切削參數 The Cutting Data

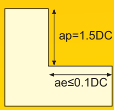
直徑 (mm) Shank		4	6	8	10	12	16	20
轉速 n (min)		6000	4000	2900	2400	1900	1500	1200
進給速度 (mm/min) Vf	開槽 Slotted	420	420	420	420	420	420	420
	側邊 Side	1100	800	950	750	500	480	400

切削深度 Cutting depth

開槽 Slotted

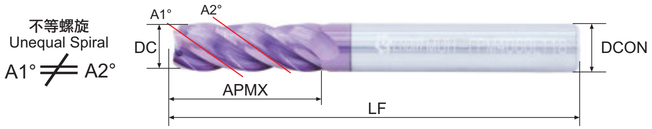


側邊 Side



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 | MG | µm 0.5 | CO 12% | HRC <55 | M 500 | 35 38 | Altin

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-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	

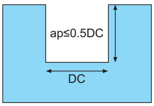
MUH-FMM 4000系列切削參數
The Cutting Data For MUH-FMM 4000 Series

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

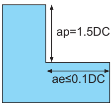
直徑 (mm) Shank		4	6	8	10	12	16	20
轉速 n (min)		6000	4000	2900	2400	1900	1500	1200
進給速度 Vf (mm/min)	開槽 Slotted	420	420	420	420	420	420	420
	側邊 Side	1100	800	950	750	500	480	400

切削深度
Cutting depth

開槽 Slotted



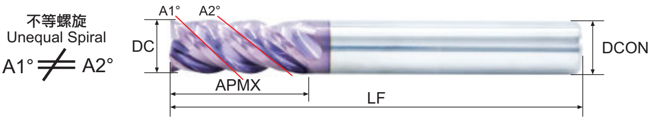
側邊 Side



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-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 DC	切刃長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
MUH-IGM4040	●	4	10	4	50	
MUH-IGM4040L112	●	4	12	4	50	
NEW 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	

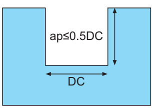
MUH-IGM 4000系列切削參數
The Cutting Data For MUH-IGM 4000 Series

被加工材質 Material: 合金鋼 Alloy Steel / 碳 鋼 Carbon Steel

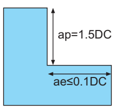
直徑 (mm) Shank		4	6	8	10	12	16	20
轉速 n (min)		6000	4000	2900	2400	1900	1500	1200
進給速度 Vf (mm/min)	開槽 Slotted	420	420	420	420	420	420	420
	側邊 Side	1100	800	950	750	500	480	400

切削深度 Cutting depth

開槽 Slotted



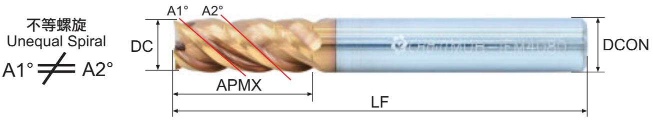
側邊 Side



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-IEM 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 DC	切刃長度 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	
NEW MUH-IEM4040L112D6	●	4	12	6	50	
NEW MUH-IEM4050L115	●	5	15	6	50	
MUH-IEM4060	●	6	15	6	50	
MUH-IEM4060L118	●	6	18	6	50	
NEW 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	

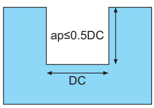
MUH-IEM 4000系列切削參數
The Cutting Data For MUH-IEM 4000 Series

被加工材質 Material: 合金鋼 Alloy Steel / 碳 鋼 Carbon Steel

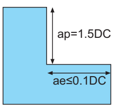
直徑 (mm) Shank		4	6	8	10	12	16	20
轉速 n (min)		6000	4000	2900	2400	1900	1500	1200
進給速度 Vf (mm/min)	開槽 Slotted	420	420	420	420	420	420	420
	側邊 Side	1100	800	950	750	500	480	400

切削深度
Cutting depth

開槽 Slotted



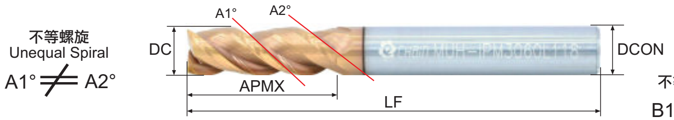
側邊 Side

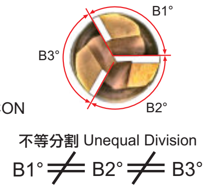


ap：軸向切削深度 Axial depth of cutting
ae：徑向切削深度 Radial depth of cutting
DC：刃徑 Diameter of cutting

MUH-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





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
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

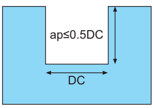
The Cutting Data For MUH-IPM 3000L1 Series

被加工材質 Material: 合金鋼 Alloy Steel / 碳 鋼 Carbon Steel

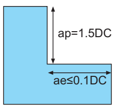
直徑 (mm) Shank		4	6	8	10	12	16	20
轉速 n (min)		6000	4000	2900	2400	1900	1500	1200
進給速度 Vf (mm/min)	開槽 Slotted	360	360	300	300	280	230	230
	側邊 Side	540	480	480	480	400	400	400

切削深度 Cutting depth

開槽 Slotted



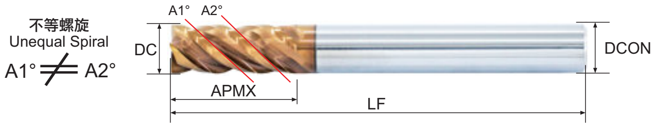
側邊 Side



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



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
MUH-IPM4040	●	4	10	4	50	
MUH-IPM4040D6	●	4	10	6	50	
MUH-IPM4050	●	5	12.5	6	50	
NEW MUH-IPM4050L115	●	5	15	6	50	
MUH-IPM4060	●	6	15	6	50	
MUH-IPM4060L118	●	6	18	6	50	
NEW MUH-IPM4070L121	●	7	20	8	60	
MUH-IPM4080	●	8	20	8	60	
MUH-IPM4080L124	●	8	24	8	60	
NEW 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	
NEW MUH-IPM4100L135	●	10	35	10	75	
MUH-IPM4120	●	12	30	12	75	
MUH-IPM4120L136	●	12	36	12	75	
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	

※ 請接下頁。 ※ Continued on next page.

MUH-IPM 4000系列切削參數

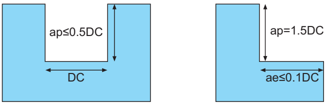
The Cutting Data For MUH-IPM 4000 Series

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 Vf (mm/min)	開槽 Slotted	480	350	350	300	300	300	300
	側邊 Side	720	640	580	580	580	480	400

切削深度 Cutting depth

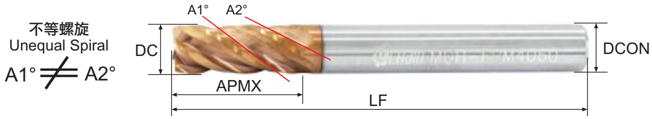
開槽 Slotted　　側邊 Side



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-FPM 4000

不等分割不等螺旋圓溝 4 刃鎢鋼立銑刀
Round Land Unequal Spiral & Uenqual Division 4 Flutes 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
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	
MUH-FPM4160	●	16	48	16	100	
MUH-FPM4200	●	20	50	20	100	

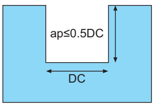
MUH-FPM 4000系列切削參數
The Cutting Data For MUH-FPM 4000 Series

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

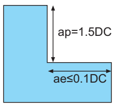
直徑 (mm) Shank		6	8	10	12	16	20
轉速 n (min)		4000	2900	2400	1900	1500	1200
進給速度 Vf (mm/min)	開槽 Slotted	420	420	420	420	420	420
	側邊 Side	800	950	750	500	480	400

切削深度
Cutting depth

開槽 Slotted



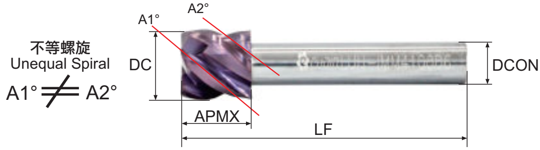
側邊 Side



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

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

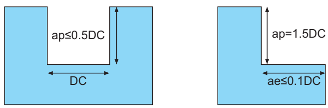
The Cutting Data For LUH-IMM 4000 Series

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	420
	側邊 Side	800	950	750

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

GMM 6000

6 刃鎢鋼立銑刀
6 Flutes 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
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	
GMM6120	●	12	30	12	75	
GMM6160	●	16	48	16	100	
GMM6200	●	20	50	20	100	
GMM6250	●	25	62.5	25	100	

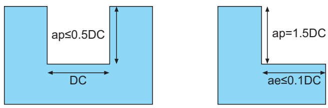
GMM 6000系列切削參數
The Cutting Data For GMM 6000 Series

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

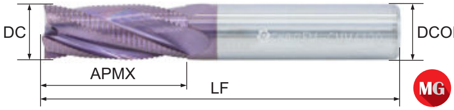


ap：軸向切削深度 Axial depth of cutting
ae：徑向切削深度 Radial depth of cutting
DC：刃徑 Diameter of cutting

CHAIN® 益詮切削刀具

FM-CMM 4000

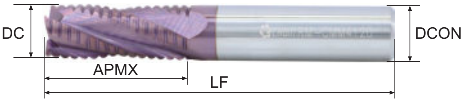
細齒 4 刃鎢鋼粗銑刀
4 Flutes Fine Pitch & Finishing Roughing Carbide End Mill



產品型號 Model No	在庫 Stock	切削直徑 DC	切刃長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
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 DC	切刃長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
RM-CMM4050	●	5	12.5	6	50	
RM-CMM4060	●	6	15	6	50	
RM-CMM4080	●	8	20	8	60	
RM-CMM4100	●	10	25	10	75	
RM-CMM4120	●	12	30	12	75	
RM-CMM4120L136	●	12	36	12	75	
RM-CMM4160	●	16	48	16	100	

FM-CMM 4000、RM-CMM 4000系列切削參數

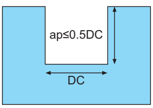
The Cutting Data For FM-CMM 4000 vs RM-CMM 4000 Series

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

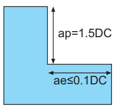
直徑 (mm) Shank		6	8	10	12	16
轉速 n (min)		3100	2300	1900	1600	1200
進給速度 (mm/min) Vf	開槽 Slotted	120	120	120	120	135
	側邊 Side	325	375	375	275	200

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

CFM-DWM 鎢鋼複合材料精加工立銑刀 Carbide End Mill For Composiutes Finishing

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	刃數 CICT	價格 Price
CFM-DWM8040		4	12	4	50	8	
CFM-DWM12060	●	6	18	6	50	12	
CFM-DWM11060L124		6	24	6	50	11	
CFM-DWM14080L125	●	8	25	8	60	14	
CFM-DWM16100	●	10	30	10	75	16	
CFM-DWM17120L132		12	32	12	100	17	

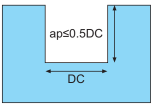
CFM-DWM系列切削參數
The Cutting Data For CFM-DWM Series

被加工材質 Material: 玻璃纖維 Glass Fiber / 碳纖維 Carbon Fiber

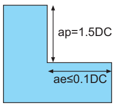
直徑 (mm) Shank		4	6	8	10	12
轉速 n (min)		6370	4250	3190	2550	2130
進給速度 Vf (mm/min)	開槽 Slotted	510	470	450	410	360
	側邊 Side	1020	940	900	820	730

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

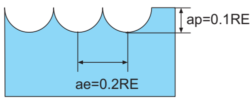
產品型號 Model No	在庫 Stock	刃角R RE	切削直徑 DC	切刃長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
S-EMB2003	●	0.15	0.3	0.6	4	50	
S-EMB2004	●	0.2	0.4	0.8	4	50	
S-EMB2005	●	0.25	0.5	1	4	50	
S-EMB2006	●	0.3	0.6	1.2	4	50	
S-EMB2007	●	0.35	0.7	1.4	4	50	
S-EMB2008	●	0.4	0.8	1.6	4	50	
S-EMB2009	●	0.45	0.9	1.8	4	50	

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



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-EMB 2000L2 長頸短刃球頭 2 刃鎢鋼立銑刀
Long Neck Short Flute Ball Nose 2 Flutes Carbide End Mill

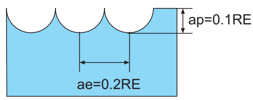
產品型號 Model No	在庫 Stock	刃角R RE	切削直徑 DC	切刃長度 APMX	柄部直徑 DCON	頸徑 DN	可使用長度 LU	標準全長 LF	價格 Price
S-EMB2004L202		0.2	0.4	0.32	4	0.37	2	50	
S-EMB2004L204		0.2	0.4	0.32	4	0.37	4	50	
S-EMB2005L202		0.25	0.5	0.4	4	0.46	2	50	
S-EMB2005L204		0.25	0.5	0.4	4	0.46	4	50	
S-EMB2005L206		0.25	0.5	0.4	4	0.46	6	50	
S-EMB2006L202		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

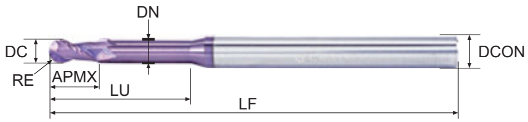


ap：軸向切削深度 Axial depth of cutting
ae：徑向切削深度 Radial depth of cutting
RE：刃角R R Edge Angle

CHAIN® 益詮切削刀具

EMB 2000L2

長頸球頭 2 刃鎢鋼立銑刀
Long Neck Short Flute 2 Flutes Ball Nose 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
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	
EMB2020L214		1	2	1.6	4	1.94	14	50	
EMB2020L216	●	1	2	1.6	4	1.94	16	50	
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	

※ 請接下頁。 ※ Continued on next page.

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
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	6	6	6	20	50	
EMB2060L235HD8	●	3	6	6	8	6	35	100	
EMB2060L240MD8	●	3	6	6	8	6	40	150	

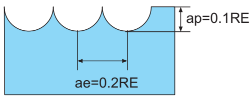
EMB 2000L2系列切削參數

The Cutting Data For EMB 2000L2 Series

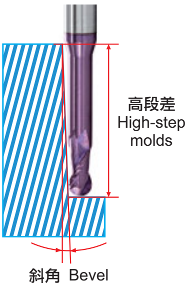
被加工材質 Material: 鋼 Steel | 不鏽鋼 Stainless steel | 鑄 鐵 Cast Iron

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 刃鎢鋼立銑刀
2 Flutes Ball Nose 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	標準全長 LF	價格 Price
EMB2010	●	0.5	1	2	4	50	
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	
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	60	
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	

※ 請接下頁。 ※ Continued on next page.

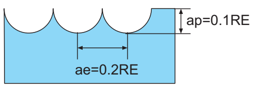
產品型號 Model No	在庫 Stock	刃角R RE	切削直徑 DC	切刃長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
EMB2050E1	●	2.5	5	10	6	75	
EMB2050H	●	2.5	5	10	6	100	
EMB2060	●	3	6	12	6	50	
EMB2060E1	●	3	6	12	6	75	
EMB2060H	●	3	6	12	6	100	
EMB2060M	●	3	6	12	6	150	
EMB2065	●	3.25	6.5	13	8	60	
EMB2069	●	3.45	6.9	13.8	8	60	
EMB2080	●	4	8	16	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	
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

MADE IN TAIWAN NEW ARRIVAL

EEB 2000 series

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

2刃球頭鎢鋼端銑刀
2 Flutes Ball Nose Carbide End Mill

For the particular coating with

合金鋼 Alloy Steel　碳 鋼 Caron Steel　專用特殊塗層

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°

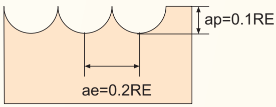
全新材質抗震性佳，減少刀具因震動的崩損，擁有優良加工表面，提升刀具加工壽命，採用國際公差標準h5，公差範圍控制在μ級精度，採用圓形刃帶大幅提高了耐震性和耐崩損性，通過減少切削阻力，實現了高速進給加工。

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 μ level accuracy, using round flute improve the shock resistance and resistance to collapse, by reducing cutting resistance to achieve high speed and feeding processing.

切削參數 The Cutting Data

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

切削深度 Cutting depth



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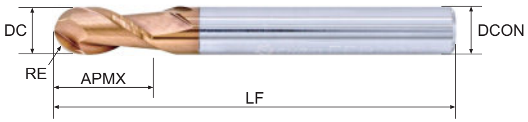
RE：刃角R R Edge Angle

EEB 2000

球頭 2 刃鎢鋼立銑刀
2 Flutes Ball Nose 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	標準全長 LF	價格 Price
NEW	EEB2020		1	2	4	4	50	
NEW	EEB2030		1.5	3	6	4	50	
NEW	EEB2040		2	4	8	4	50	
NEW	EEB2050	●	2.5	5	10	6	50	
NEW	EEB2060	●	3	6	12	6	50	
NEW	EEB2080		4	8	16	8	60	
NEW	EEB2100		5	10	20	10	75	
NEW	EEB2120		6	12	24	12	75	

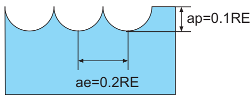
EEB 2000系列切削參數

The Cutting Data For EEB 2000 Series

被加工材質 Material: 合金鋼 Alloy Steel / 碳 鋼 Carbon Steel

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

切削深度 Cutting depth



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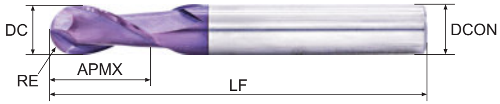
ae：徑向切削深度 Radial depth of cutting
RE：刃角R R Edge Angle

DMB 2000

球頭 2 刃鎢鋼立銑刀
2 Flutes Ball Nose 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	標準全長 LF	價格 Price
NEW 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	
DMB2060	●	3	6	12	6	50	
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	

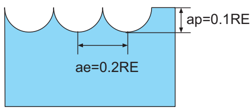
DMB 2000系列切削參數

The Cutting Data For DMB 2000 Series

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

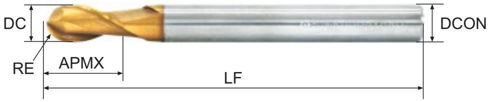
直徑 (mm) Shank	4	6	8	10	12	16	20
轉速 n (min)	6400	4300	3200	2600	2200	1600	1300
進給速度 Vf (mm/min)	235	245	275	275	255	230	205

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

DPB 2000
球頭 2 刃鎢鋼立銑刀
2 Flutes Ball Nose Carbide End Mill



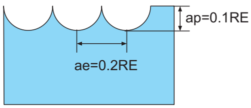
產品型號 Model No	在庫 Stock	刃角R RE	切削直徑 DC	切刃長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
NEW DPB2060H	●	3	6	12	6	100	
DPB2100H	●	5	10	20	10	100	

DPB 2000系列切削參數
The Cutting Data For DPB 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 2000

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

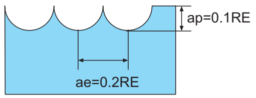
產品型號 Model No	在庫 Stock	刃角R RE	切削直徑 DC	切刃長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
NEW EPB2020	●	1	2	4	4	50	
EPB2030	●	1.5	3	6	4	50	
EPB2040	●	2	4	8	4	50	
EPB2050		2.5	5	10	6	50	
EPB2060	●	3	6	12	6	50	
EPB2060E1	●	3	6	12	6	75	
EPB2080	●	4	8	16	8	60	
EPB2100	●	5	10	20	10	75	
EPB2100H	●	5	10	20	10	100	
EPB2100M	●	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 刃鎢鋼立銑刀
4 Flutes Ball Nose 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	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	
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	

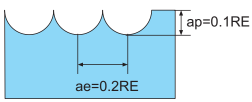
EPB 4000系列切削參數

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 R Edge Angle

eCHAIN® 益詮切削刀具

EMB 4000

球頭 4 刃鎢鋼立銑刀
4 Flutes Ball Nose 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	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 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	
EMB4080	●	4	8	16	8	60	
EMB4080E1	●	4	8	16	8	75	
EMB4080H	●	4	8	16	8	100	
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	

※ 請接下頁。 ※ Continued on next page.

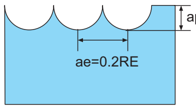
產品型號 Model No	在庫 Stock	刃角R RE	切削直徑 DC	切刃長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
EMB4120M	●	6	12	24	12	150	
EMB4160	●	8	16	32	16	100	
EMB4160M	●	8	16	32	16	150	
EMB4200	●	10	20	40	20	100	

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

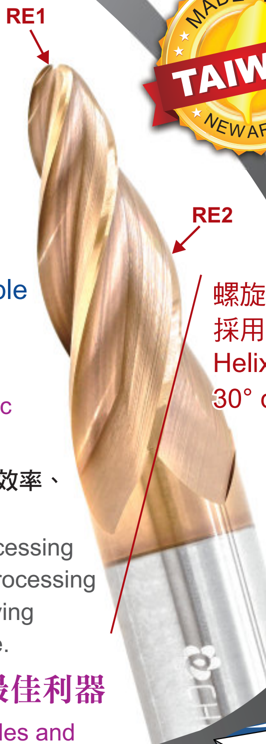


ap：軸向切削深度 Axial depth of cutting
ae：徑向切削深度 Radial depth of cutting
RE：刃角R R Edge Angle

PA-DPB series

鎢鋼酒桶端銑刀

Parabolic Carbide End Mill



全新矽鈦材質，高耐磨、高韌性
可切削硬度HRC55°~65°

Brand New Titanium material, high wear resistance, high toughness cutting machinable obtain to HRC55°~65°.

螺旋角
採用30°設計
Helix angle
30° design.

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、更加大的切深加工，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.

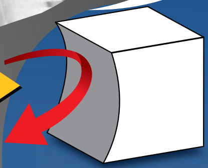
模具、航鈦渦輪葉片及葉輪五軸加工最佳利器

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

依幾何不同刃刃設計，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.

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.

切削參數 The Cutting Data

特殊專用材質 Special for: 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

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

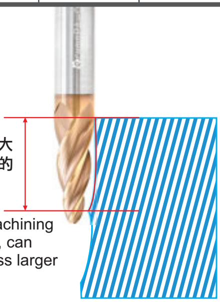
新品上市 New Arrival MG μm 0.5 CO 12% HRC<65 P 550 30° TiSin

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
NEW PA-DPB4060L1140R45		1	45	6	14	6	50	4	
NEW PA-DPB4060L1205R100	●	1	100	6	20.5	6	50	4	
NEW PA-DPB6060L1140R45		1	45	6	14	6	50	6	
NEW PA-DPB4080L1160R45		1.5	45	8	16	8	60	4	
NEW PA-DPB4080L1220R95	●	1.5	95	8	22	8	60	4	
NEW PA-DPB6080L1160R45	●	1.5	45	8	16	8	60	6	
NEW PA-DPB4100L1245R90	●	2	90	10	24.5	10	75	4	
NEW PA-DPB6100L1165R40	●	2	40	10	16.5	10	75	6	
NEW PA-DPB6100L1175R40		2	40	10	17.5	10	75	6	
NEW PA-DPB4120L1270R85		2	85	12	27	12	75	4	
NEW 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

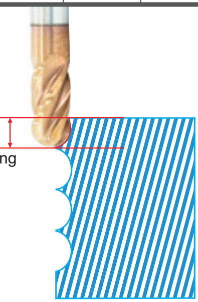
被加工材質 Material: 合金鋼 Alloy Steel / 碳 鋼 Carbon Steel

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



加工刨除範圍更大
可進行加大切深的
高效加工。

The range of machining planing is larger, can efficiently process larger depth of cut.



切削刨除的範圍受限

The range of machining planing is limited.

EPU 4000L1

260°內R角4刃鎢鋼立銑刀
260° Inner Radius 4 Flutes Carbide End Mill

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	●	1R	2	1.53	1.63	2	4	50	
EPU4030L1024L206	●	1.5R	3	2.3	2.46	3	6	50	
EPU4040L1033L208	●	2R	4	3.06	3.3	4	8	50	
EPU4050L1041L210	●	2.5R	5	3.83	4.1	5	10	50	
EPU4060L1049L212	●	3R	6	4.6	4.93	6	12	50	
EPU4080L1065L216	●	4R	8	6.15	6.58	8	16	60	
EPU4100L1082L220	●	5R	10	7.66	8.22	10	20	75	
EPU4120L1098L224	●	6R	12	9.2	9.86	12	24	75	
EPU4120L1100L221	●	6R	12	9.2	10	12	21	75	
EPU4160L1133L232	●	8R	16	12.26	13.37	16	32	100	

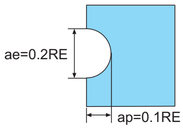
EPU 4000系列切削參數

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

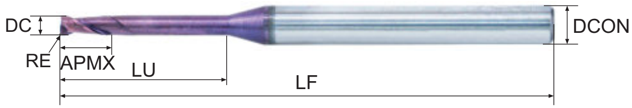
切削深度 Cutting depth



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

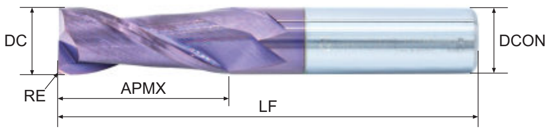
The Cutting Data For DMR 2000R00L2 Series

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 刃鎢鋼立銑刀
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	標準全長 LF	價格 Price
DMR2010R02	●	0.2	1	2.5	4	50	
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	
NEW 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	
NEW DMR2040R15D6	●	1.5	4	10	6	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
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	
DMR2060R10H	●	1	6	15	6	100	
NEW 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

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	
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	
DMR4030R05E1	●	0.5	3	7.5	4	75	
DMR4030R05E1D6	●	0.5	3	7.5	6	75	
DMR4030R05L108	●	0.5	3	8	4	50	
DMR4030R10	●	1	3	7.5	4	50	
DMR4030R10E1	●	1	3	7.5	4	75	
DMR4030R10D6	●	1	3	7.5	6	50	
DMR4040R02	●	0.2	4	10	4	50	
DMR4040R02E1	●	0.2	4	10	4	75	

※ 請接下頁。 ※ Continued on next page.

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
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	
DMR4050R05	●	0.5	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	
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	
NEW DMR4060R15	●	1.5	6	15	6	50	
DMR4060R20	●	2	6	15	6	50	
NEW DMR4070R05	●	0.5	7	17.5	8	50	
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	●	1.5	8	20	8	75	

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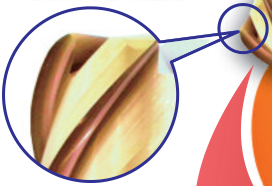
產品型號 Model No	在庫 Stock	刃角R RE	切削直徑 DC	切刃長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
DMR4080R10H	●	1	8	20	8	100	
DMR4080R15	●	1.5	8	20	8	60	
DMR4100R05	●	0.5	10	25	10	75	
DMR4100R05H	●	0.5	10	25	10	100	
DMR4100R10	●	1	10	25	10	75	
DMR4100R10H	●	1	10	25	10	100	
DMR4100R15	●	1.5	10	25	10	75	
DMR4100R20	●	2	10	25	10	75	
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	

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
轉速 n (min)	6400	4300	3200	2600	2200
進給速度 Vf (mm/min)	520	560	570	540	540

特殊設計



可保護圓鼻刀刀尖

Special design for protecting end mill tip

螺旋角採45°設計

Helix angle of 45° degrees

GPR 6000R00 series

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，全新鈔鈦塗層，高耐磨、高韌性材質。
加工高硬度HRC55°～65°，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°~65°.**
Excellent machined surface, effectively control efficiency and stability of chip removal

切削參數 The Cutting Data

直徑 (mm) Shank	6	8	10	12	16	20
轉速 n (min)	4300	3200	2600	2200	2200	2200
進給速度 Vf (mm/min)	560	570	540	540	540	540

專用特殊塗層
Processing on

合金鋼 Alloy Steel | 碳 鋼 Caron Steel

GPR 6000R00

6 刃圓鼻鎢鋼立銑刀
6 Flutes Rounded Land 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	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 GPR1610R20		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	22200	1600	1300
進給速度 Vf (mm/min)	5100	580	610	660	580	580

PH-FER系列 不等分割不等螺旋非圓溝

4 刃圓鼻鎢鋼立銑刀

特殊設計 可保護圓鼻刀刀尖

Special design It can protect the top of Radius tip

全新FER高耐磨 高韌性材質 可加工高硬度HRC55～65°

New FER series With high abrasion resistance
High ductility material HRC55~65

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

Unequal helix angle facilitates chipping resistance for high-speed processing. It can avoid the cutting vibration pattern effectively and reduce crumbling on workpiece due to vibration. having an excellent processed surface and enhance the tool life time.

專用特殊塗層 Processing on: 合金鋼 Alloy Steel | 碳 鋼 Caron Steel

PH-FER 4000R00系列
切削參數 The Cutting Data

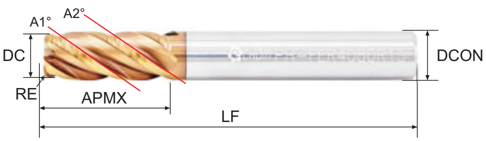
直徑 (mm) Shank	4	6	8	10	12
轉速 n (min)	6400	4300	3200	2600	2200
進給速度 Vf (mm/min)	520	560	570	540	540

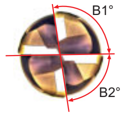
e CHAIN® 益詮切削刀具

PH-FER 4000R00

不等分割不等螺旋圓鼻 4 刃鎢鋼立銑刀
4 Flutes Unequal Spiral & Unequal Division Corner Radius Carbide End Mill

不等螺旋
Unequal Spiral
A1° ≠ A2°





不等分割
Unequal Division
B1° ≠ B2°

	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	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	

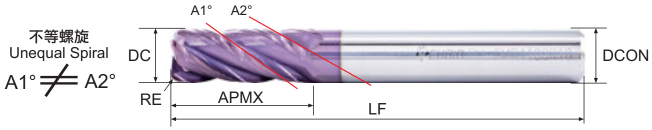
PH-FER 4000R00系列切削參數
The Cutting Data For PH-FER 4000R00 Series

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-FMR 4000R00

不等分割不等螺旋圓鼻 4 刃鎢鋼立銑刀
4 Flutes Unequal Spiral & Unequal Division 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	標準全長 LF	價格 Price
PH-FMR4040R05	●	0.5	4	10	4	50	
PH-FMR4040R10	●	1	4	10	4	50	
NEW PH-FMR4040R10D6	●	1	4	10	6	50	
PH-FMR4060R05	●	0.5	6	15	6	50	
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	
NEW PH-FMR4100R05L130	●	0.5	10	30	10	75	
PH-FMR4100R10	●	1	10	25	10	75	
PH-FPR4100R10L130	●	1	10	30	10	75	
PH-FMR4120R05	●	0.5	12	30	12	75	
PH-FMR4120R10	●	1	12	30	12	75	
PH-FMR4120R30	●	3	12	30	12	75	

PH-FMR 4000R00系列切削參數

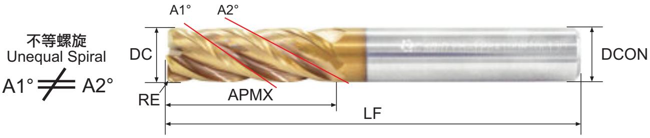
The Cutting Data For PH-FMR 4000R00 Series

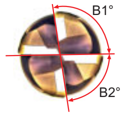
被加工材質 Material: 鋼 Steel | 不鏽鋼 Stainless steel | 鑄 鐵 Cast Iron

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-FPR 4000R00

不等分割不等螺旋圓鼻 4 刃鎢鋼立銑刀
4 Flutes Unequal Spiral & Unequal Division 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
NEW PH-FPR4030R10D6	●	1	3	7.5	6	50	
PH-FPR4040R05	●	0.5	4	10	4	50	
PH-FPR4040R10	●	1	4	10	4	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	
PH-FPR4080R10	●	1	8	20	8	60	
NEW PH-FPR4080R05E1	●	0.5	8	20	8	75	
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	
PH-FPR4100R05	●	0.5	10	25	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-FPR4120R30L136	●	3	12	36	12	75	
PH-FPR4120R05	●	0.5	12	30	12	75	
PH-FPR4120R10	●	1	12	30	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

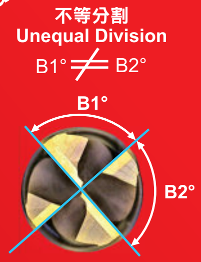
直徑 (mm) Shank	3	4	6	8	10	12
轉速 n (min)	8500	6400	4300	3200	2600	2200
進給速度 Vf (mm/min)	680	520	560	570	540	540

MADE IN TAIWAN NEW ARRIVAL

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

4 刃C角鎢鋼立銑刀
4 Flute C corner Carbide End Mill

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



特殊設計
Special design

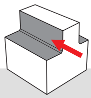
可保護C角刀尖
It can protect the top of C corner tip

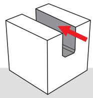
滿足工件 C 角成形加工需求，有效抑制高速進給所產生的震動，抗震性佳，減少刀具因震動的崩損擁有優良加工表面，提升刀具加工壽命

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 conducive to high quality machining surfaces and improved tool life.

切削參數
The Cutting Data

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


側銑倒角
Chamfer Side Milling


倒角開槽
Chamfer Slotced

For the particular coating with
合金鋼 Alloy Steel　碳 鋼 Caron Steel　專用特殊塗層

PH-FPC 4000C00

不等分割不等螺旋非圓溝 4 刃 C 角鎢鋼立銑刀
Uneual Division Non Round Land 4 Flute C corner Carbide End Mill

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
NEW PH-FPC4040C015		0.15	4	10	4	50	
NEW PH-FPC4060C02		0.2	6	15	6	50	
NEW PH-FPC4080C02	●	0.2	8	20	8	60	
NEW PH-FPC4080C02E1		0.2	8	20	8	75	
NEW PH-FPC4100C03		0.3	10	25	10	75	
NEW PH-FPC4100C03L130		0.3	10	30	10	75	
NEW PH-FPC4100C03L136		0.3	10	36	10	75	
NEW PH-FPC4120C035		0.35	12	30	12	75	

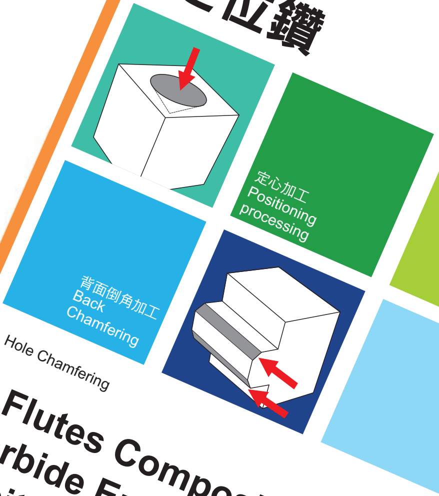
PH-FPC 4000C00系列切削參數

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



MADE IN TAIWAN NEW ARRIVAL

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、圓孔倒加工

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

適用材質 Processing on

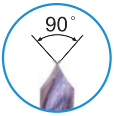
鋼 Steel | 不鏽鋼 Stainless Steel | 鑄鐵 Cast Iron

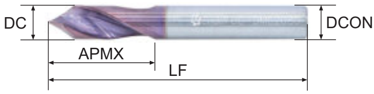
切削參數 The Cutting Data

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-DMC 2000

2 刃鎢鋼定位鑽
2 Flutes Positioning Drill





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	8	3	50	
DC-DMC2040	●	4	12	4	50	
DC-DMC2040E1	●	4	12	4	75	
DC-DMC2050	●	5	20	5	50	
DC-DMC2060	●	6	20	6	50	
DC-DMC2080	●	8	25	8	60	
DC-DMC2100	●	10	25	10	75	
DC-DMC2120	●	12	30	12	75	
DC-DMC2160	●	16	35	16	100	
DC-DMC2200	●	20	40	20	100	

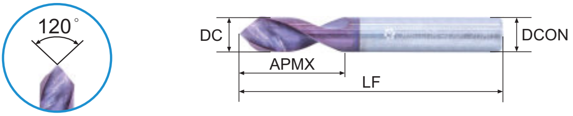
DC-DMC 2000系列切削參數
The Cutting Data For DC-DMC 2000 Series

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

DR-DMC 2000

2 刃鎢鋼定位鑽
2 Flutes Positioning Drill



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	8	3	50	
DR-DMC2040	●	4	12	4	50	
DR-DMC2050	●	5	20	5	50	
DR-DMC2060	●	6	20	6	50	
DR-DMC2080	●	8	25	8	60	
DR-DMC2100	●	10	25	10	75	
DR-DMC2120	●	12	30	12	75	
DR-DMC2160	●	16	35	16	100	
DR-DMC2200	●	20	40	20	100	

DR-DMC 2000系列切削參數
The Cutting Data For DR-DMC 2000 Series

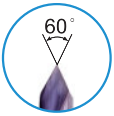
被加工材質 Material: 鋼 Steel / 不鏽鋼 Stainless steel / 鑄 鐵 Cast Iron

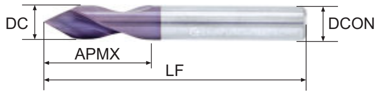
直徑 (mm) Shank	3	4	5	6	8	10	12	16	20
轉速 n (min)	7400	5500	4400	3700	2800	2300	1900	1400	1100
進給速度 Vf (mm/min)	300	220	180	150	120	90	80	60	45

e CHAIN® 益詮切削刀具

DT-DMC 2000

2 刃鎢鋼定位鑽
2 Flutes Positioning Drill





新品上市 New Arrival · MG · μm 0.5 · CO 12% · HRC <55 · W 500 · 30° · Altin

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	8	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	

DT-DMC 2000系列切削參數
The Cutting Data For DT-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

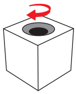
DC-DMM series

DC系列夾角90°設計
Helix angle 90° design

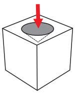
2刃 定位 側銑 鎢鋼鑽
2 Flutes Positioning Side Milling Carbide Drill

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

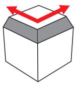
Helix Angle 30° Design
Positioning drill, drilling and chamfering tool for NC milling machine.
Side milling is also available.



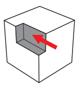
圓孔倒角
Chamfer Of Rounding Hole



定位加工
Position Processing



倒角加工
Chamfer



側銑
Side Milling

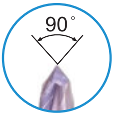
DC-DMM 2000系列切削參數
The Cutting Data For DC-DMM 2000 Series

適用材質 Processing on 合金鋼 Alloy 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

DC-DMM 2000

2 刃定位側銑鎢鋼鑽
2 Flutes



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 DC-DMM2060	●	6	12	6	50	
NEW DC-DMM2080	●	8	16	8	60	
NEW DC-DMM2100	●	10	20	10	75	
NEW DC-DMM2120	●	12	24	12	75	
NEW DC-DMM2160	●	16	32	16	100	
NEW DC-DMM2200	●	20	40	20	100	

DC-DMM 2000系列切削參數
The Cutting Data For DC-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 End Mill 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.

MADE IN TAIWAN NEW ARRIVAL

切削參數 The Cutting Data

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-DPC series

適用材質 Processing on

合金鋼 Carbon Steel

碳 鋼 Alloy Steel

專用特殊塗層
Special Coating for

DC-DPC series

適用材質 Processing on

鋁合金 Aluminum

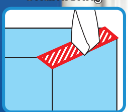
銅 Copper

塑 膠 Plastic

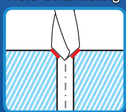
複合材料專用
Composite material processing

圓孔倒角加工
Large hole chamfering

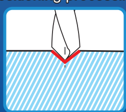
倒角加工
Chamfering



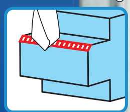
孔倒角加工
Hole Chamfering



定心加工
Positioning processing

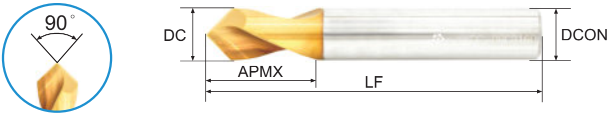


背面倒角加工
Back Chamfering



DC-DPC 2000

2 刃鎢鋼定位鑽
2 Flutes Positioning Drill



新品上市 New Arrival　MG　μm 0.5　CO 12%　HRC <65　P 550　30°　Altin

	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	DC-DPC2030	●	3	8	3	50	
NEW	DC-DPC2040	●	4	12	4	50	
NEW	DC-DPC2040E1		4	12	4	75	
NEW	DC-DPC2050		5	20	5	50	
NEW	DC-DPC2060	●	6	20	6	50	
NEW	DC-DPC2080	●	8	25	8	60	
NEW	DC-DPC2100	●	10	25	10	75	
NEW	DC-DPC2120	●	12	30	12	75	
NEW	DC-DPC2160	●	16	35	16	100	
NEW	DC-DPC2200		20	40	20	100	

DC-DPC 2000系列切削參數

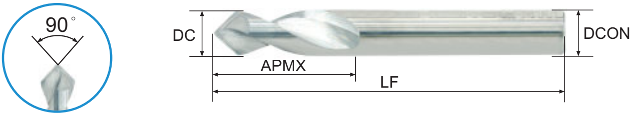
The Cutting Data For DC-DPC 2000 Series

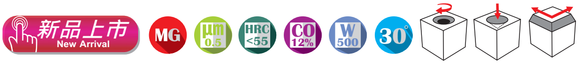
被加工材質 Material　合金鋼 Alloy Steel　碳 鋼 Carbon Steel

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-DWC 2000

2 刃鎢鋼複合材料專用定位鑽
2 Flutes Carbide For Composiutes Positioning Drill





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	8	3	50	
DC-DWC2040	●	4	12	4	50	
DC-DWC2040E1		4	12	4	75	
DC-DWC2050		5	20	5	50	
DC-DWC2060	●	6	20	6	50	
DC-DWC2080	●	8	25	8	60	
DC-DWC2100		10	25	10	75	
DC-DWC2120		12	30	12	75	
DC-DWC2160		16	35	16	100	
DC-DWC2200		20	40	20	100	

DC-DWC 2000系列切削參數

The Cutting Data For DC-DWC 2000 Series

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

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

V型鳩尾槽銑刀

V-Type Chamfer Cutter

MADE IN TAIWAN NEWARRIVAL

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

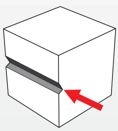
合金鋼 Alloy Steel | **不鏽鋼** Stainless Steel | **鑄鐵** Cast Iron

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

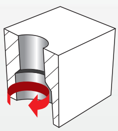
It can meet various angle chamfering requirements, effectively reducing machining time and tools costs.

切削參數 The Cutting Data

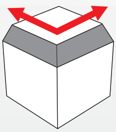
直徑 (mm) Shank	4	6	8	10	12
轉速 n (min)	5500	3700	2800	2200	1900
進給速度 Vf (mm/min)	400	400	500	650	650



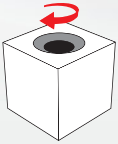
側面倒角
Side Chamfering



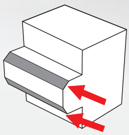
側面V槽加工
Side V Groove Processing



倒角加工
Chamfering



圓孔倒角
Large hole chamfering



背面倒角
Back Chamfering

CC-AMC V型鳩尾槽鎢鋼刀 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
CC-AMC4040L207DD6	●	4	1.9	6	2.4	7	60	4	
CC-AMC4060L207D	●	6	2.8	6	3	7	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型鳩尾槽鎢鋼刀 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: 鋼 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

CHAIN® 益詮切削刀具

AMI 2000

2刃鎢鋼外R角倒角銑刀
2 Flutes External R Chamfering Carbide End Mill

新規格上市 New Specification Arrival

MG | μm 0.5 | CO 12% | HRC <55 | M 500 | Altin

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	
NEW AMI2030RE0150D6	●	1.5	3	–	6	–	50	
AMI2030RE0500D16	●	5	3	15	16	13.2	100	
AMI2030RE0600D16	●	6	3	15	16	15.2	100	
NEW AMI2040RE0100D6	●	1	4	–	6	–	50	

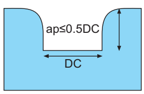
AMI 2000系列切削參數
The Cutting Data For AMI 2000 Series

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

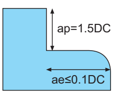
刃角R R Angle	0.5	0.75	1	1.25	1.5	1.75	2	2.5	3	4	5	6
轉速 n (min)	7800	6350	4700	4000	3100	2800	2600	2200	1900	1500	1300	1100
進給速度 Vf (mm/min)	310	250	190	240	190	170	160	180	150	180	210	180

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

E030-AWC 1000L1 鋁合金專用倒角雕刻立銑刀 Aluminum Alloy Engraving Chamfer End Mill

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 E030-AWC10012L105BD3		0.12	5	3	40	
NEW E030-AWC10012L106B		0.12	6	4	50	
NEW E030-AWC10012L108BD5		0.12	8	5	50	
NEW E030-AWC10012L109D6		0.12	9	6	50	
NEW E030-AWC10016L105-38D6	●	0.16	5	6	38	

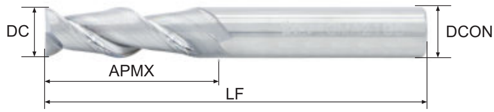
E030-AWC 1000L1系列切削參數
The Cutting Data For E030-AWC 1000L1 Series

被加工材質 Material: 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

GMA 2000

鋁用 2 刃鎢鋼立銑刀
For Aluminum Alloy 2 Flutes 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
GMA2060	●	6	18	6	50	
GMA2080	●	8	24	8	60	
GMA2100	●	10	30	10	75	

GMA 2000系列切削參數

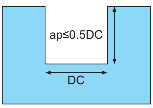
The Cutting Data For GMA 2000 Series

被加工材質 Material: 鋁合金 Aluminum, 銅 Copper

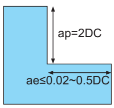
直徑 (mm) Shank		6	8	10
轉速 n (min)		10500	8000	6400
進給速度 Vf (mm/min)	開槽 Slotted	580	450	720
	側邊 Side	920	700	1150

切削深度 Cutting depth

開槽 Slotted

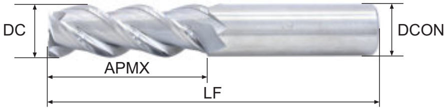


側邊 Side



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



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
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	

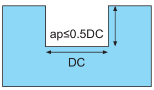
GMA 3000系列切削參數 The Cutting Data For GMA 3000 Series

被加工材質 Material：鋁合金 Aluminum　銅 Copper

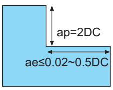
直徑 (mm) Shank		4	6	8	10	12	16	20
轉速 n (min)		15500	10500	8000	6400	5400	3900	3200
進給速度 Vf (mm/min)	開槽 Slotted	800	900	1000	1100	950	950	900
	側邊 Side	1200	1400	1600	1700	1500	1500	1300

切削深度 Cutting depth

開槽 Slotted



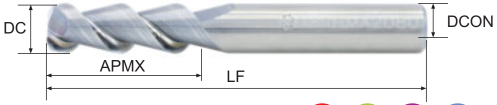
側邊 Side

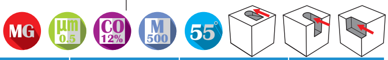


ap：軸向切削深度 Axial depth of cutting
ae：徑向切削深度 Radial depth of cutting
DC：刃徑 Diameter of cutting

HMA 2000

鋁用 2 刃鎢鋼立銑刀
For Aluminum Alloy 2 Flutes 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
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	
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	

HMA 2000系列切削參數

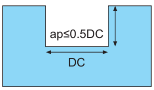
The Cutting Data For HMA 2000 Series

被加工材質 Material: 鋁合金 Aluminum　銅 Copper

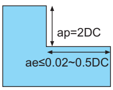
直徑 (mm) Shank		4	6	8	10	12	16	20
轉速 n (min)		15500	10500	8000	6400	5400	3900	3200
進給速度 Vf (mm/min)	開槽 Slotted	800	900	1000	1100	950	950	900
	側邊 Side	1200	1400	1600	1700	1500	1500	1300

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 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 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	
NEW HMA3200L160	●	20	60	20	100	

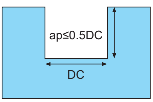
HMA 3000系列切削參數
The Cutting Data For HMA 3000 Series

被加工材質 Material: 鋁合金 Aluminum / 銅 Copper

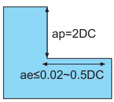
直徑 (mm) Shank		4	6	8	10	12	16	20
轉速 n (min)		15500	10500	8000	6400	5400	3900	3200
進給速度 Vf (mm/min)	開槽 Slotted	800	900	1000	1100	950	950	900
	側邊 Side	1200	1400	1600	1700	1500	1500	1300

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

益詮切削刀具

MU2-GMA 3000

鋁用3刃圓溝2離隙鎢鋼立銑刀
For Aluminum Alloy 3 Flutes Rounded Land Double Edge 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
MU2-GMA3040	●	4	12	4	50	
MU2-GMA3040D6	●	4	12	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	
MU2-GMA3080M	●	8	24	8	150	
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	10	12	16	20
轉速 n (min)		15500	10500	8000	6400	5400	3900	3200
進給速度 (mm/min) Vf	開槽 Slotted	800	900	1000	1100	950	950	900
	側邊 Side	1200	1400	1600	1700	1500	1500	1300

MU2-HMA 3000

鋁用3刃圓溝2離隙鎢鋼立銑刀
For Aluminum Alloy 3 Flutes Rounded Land Double Edge 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
MU2-HMA3040		4	12	4	50	
MU2-HMA3060	●	6	18	6	50	
MU2-HMA3080	●	8	24	8	60	
MU2-HMA3100	●	10	30	10	75	
MU2-HMA3120		12	36	12	75	

MU2-HMA 3000系列切削參數

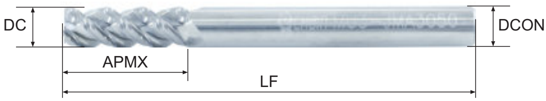
The Cutting Data For MU2-HMA 3000 Series

被加工材質 Material: 鋁合金 Aluminum, 銅 Copper

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

MU3-JMA 3000

鋁用３刃圓溝３離隙立銑刀
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	
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	
NEW MU3-JMA3160L170M	●	16	70	16	150	
NEW MU3-JMA3160L180M	●	18	80	16	150	
MU3-JMA3200	●	20	50	20	100	

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 Vf (mm/min)	開槽 Slotted	1600	1600	900	1000	1100	950	950	900
	側邊 Side	2300	2100	1400	1600	1700	1500	1500	1300