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鎢鋼端銑刀 Carbide End Mill



鎢鋼端銑刀識別系統 Carbide End Mill Identification System	B03—B04
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◎平刀系列 Square Type Series

S-EMM 2000	B18
NEW S-EMML 2000L2	B19—B20
S-OGM 2000	B21—B22
NEW EMM 2000	B24—B26
NEW EMM 2000L1	B27—B30
EMM 2000T00	B31
EMM 3000	B32
NEW EMM 4000	B33—B34
NEW EMM 4000L1	B35—B36
EPM 2000	B38—B39
NEW EPM 3000	B40
NEW EPM 4000	B41
NEW GMM 3000	B43
NEW GMM 4000	B44—B45
GMM 6000	B47
NEW GPM 6000	B48
NEW MU-EMM 4000	B50—B51
NEW MU-GMM 4000	B52—B56
NEW MU-GPM 4000	B57
NEW MU2-GPM 4000	B59—B60
NEW MU2-GYM 4000	B61
NEW MUH-FMM 4000	B62
MUH-FPM 4000	B63
MUH-GMM 4000	B64
MUH-IMM 4000	B67—B68

MUH-IMM 4000-DIN	B69
MUH-IPM 3000L1	B70
MUH-IPM 4000	B71—B72
NEW MUH-IGM 4000	B73
NEW MUH-IEM 4000	B74
NEW MUH-IYM 4000	B75—B76
LUH-IMM 4000	B77
NEW MMH-LMM 4000	B79
MMH-LPM 4000	B80
FM-CMM 4000	B81
NEW RM-CMM 4000	B82
NEW CFM-CWM	B83

◎球頭刀系列 Ball Nose Type Series

S-EMB 2000	B84
S-EMB 2000L2	B85
S-EPB 2000	B86
NEW EMB 2000	B87—B89
NEW EMB 2000L2	B90—B91
EMB 4000	B92—B93
EWB 2000	B94
NEW EPB 2000	B95
NEW EPB 4000	B96
EEB 2000	B97
DMB 2000	B98
DWB 2000L2	B99
DPB 2000	B100

◎拋物線弧形加工刀系列 Parabolic Arc Machining Series

PA-DPB	B102
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◎內R角刀系列 Inner R Series

EPU 4000L1	B104
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鎢鋼端銑刀 Carbide End Mill



◎圓鼻刀系列 Corner Radius Type Series

DMR 2000R00	B105—B106
NEW DMR 2000R00L2	B107
NEW DMR 4000R00	B108—B110
NEW DPR 4000R00	B111
GPR 6000R00	B112
NEW PH-FMR 4000R00	B113
NEW PH-FPR 4000R00	B114—B115
PH-FER 4000R00	B116
NEW PH-FPC 4000C00	B117
NEW SUH-FMR 5000R00L1-DIN	B119
NEW SUH-FYR 4000R00	B121—B122

◎定位、倒角刀系列 Position vs Chamfer Series

CC-AMC	B123
CR-AMC	B124
DT-DMC 2000	B125
DC-DMC 2000	B126
DR-DMC 2000	B127
DC-DWC 2000	B128
DR-DWC 2000	B129
DC-DPC 2000	B130
NEW DC-DMM 2000	B131
DR-DMM 2000	B132
NEW DCC-AMC-DIN	B133
NEW DCH-YMC 2000	B134
DCM-EPC 3000	B135

◎外R倒角刀系列 Outer R Chamfer Series

NEW AMI 2000	B137
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◎T型槽刀系列 T-Slot Series

NEW AMT	B138
NEW AMT	B139
NEW AWH	B140

◎雕刻端銑刀系列 Engraving End Mill Series

E180-AWA 1000L1	B141
E030-AWC 1000L1	B142

◎鋁合金專用刀系列 Aluminum Type Series

GMA 2000	B143
NEW GMA 3000	B144—B145
HMA 2000	B146—B147
HMA 3000	B148
NEW LU2-GWA 3000	B149
NEW MU2-GMA 3000	B150
NEW MU2-HMA 3000	B151
NEW MU3-JMA 3000	B154

鎢鋼端銑刀識別系統

Carbide End Mill Identification System

MUH - E M M L



1 特徵 Feature

記號 Symbol	特徵 Feature
S	微小徑 Micro Diameter
E180	平行雕刻 Engraving Blanks Precision Ground
E090	90°精細刻字 90° Engraving Blanks Precision Ground
E060	60°精細刻字 60° Engraving Blanks Precision Ground
E030	30°精細刻字 30° Engraving Blanks Precision Ground
MMH	平溝不等分割 Flat Land Uneven Division
MU	圓溝 Rounded Land
MU2	圓溝 2 離隙 Rounded Land Double Edge
MU3	圓溝 3 離隙 Rounded Land Triple Edge
MUH	圓溝不等分割 Rounded Land Unequal Division
KUH	圓溝不等分割鑄鐵加工用 Round Land Unequal Split for Cast Iron Processing
LUH	圓溝不等分割車銑複合 Round Land Unequal Split For Turning And Milling Center
LU2	圓溝 2 離隙車銑複合 Rounded Land Double Edge For Turning And Milling Center
SUH	圓溝不等分割高進給 Round Land Unequal Division High Feed
PA	拋物線弧形加工 Parabolic Arc Machining
PH	不等分割非圓溝 Unequal Division Non-Round Land
DT	60°夾角定位 Positioning Angle 60°
DS	80°夾角定位 Positioning Angle 80°
DCC	90°夾角倒角 Chamfering 90°
DCH	90°夾角保護倒角定位 90°Angle Reinforced Chamfering
DCM	90°夾角定位倒角銑削 Position vs Chamfering Machining 90°
RU	圓溝粗加工粗銑 Rounded Land Roughing
CU	圓溝中工粗銑 Rounded Land Medium Roughing
FU	圓溝精加工粗銑 Rounded Land Finishing Roughing
FM	精加工粗銑 Fine Pitch & Finishing Roughing
CM	中加工粗銑 Fine Pitch & Medium Roughing
V	鳩尾型槽 Dovetail Groove
VV	雙刃鳩尾型槽 Double-Edge Dovetail Groove
CB	30°V型鳩尾型槽 V-Type Dovetail Groove 30°
CR	60°V型鳩尾型槽 V-Type Dovetail Groove 60°
BS	沉頭孔專用 For Countersunk Screws
DC	90°夾角定位 Positioning Angle 90°
DR	120°夾角定位 Positioning Angle 120°
RM	粗加工粗銑 Fine Pitch & Roughing
CFM	複合材料精加工 For Composites Finishing
CC	90°V型鳩尾型槽 V-Type Dovetail Groove 90°
CE	140°V型鳩尾型槽 V-Type Dovetail Groove 140°

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

記號 Symbol	角度 Angle
A	0°
B	20°
C	25°
D	30°
E	35°
F	35° / 38°
G	45°
H	55°
I	42° / 45°
J	50°
K	38° / 40°
L	39° / 41°
M	120°
O	40°
P	38°
S	8°
V	10°
Y	12°

記號 Symbol	材質 Grade
B	B500
E	E300
G	G300
H	H300
M	M500
P	P500
W	W500
Y	Y500

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

8 其他 Other

R□□ R角 Radius ex : R02=R0.2mm	特殊全長 (mm) Special L.F	C:50	D:60	E:175
T□□ 錐度角度 Tapered ex : T005=0.5°		H:100	M:150	R:200
C□□ 倒角長度 Chamfer Length ex : C02=0.2mm	CW	切削寬度 Cutting Width		
D□□ 特殊柄徑 Special Shank Diameter ex : D6=6mm	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°.		
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 TSB TSB Coating TSY TSY Coating	AlTiN 鋁鈦氮塗層 TiSiN 矽鈦塗層 TSB 藍鑽塗層 TSY 難削材塗層
μm 0.5	精度單位 Accuracy	B 500 E 300 G 300 H 300 M 500 P 500 W 500 Y 500	材質 Grade
CO 10% CO 12%	含鈷量 Cobalt Content	0° 12° 20° 25° 30° 35° 40° 45° 50° 55° 120° 35° 38° 40° 39° 42° 45°	螺旋角度 Helix Angle
HRC <55 HRC <60	可被切削材硬度 Hardness Of Workpiece		

加工圖標指南

Processing Icon Guide

圖標 Icon	說明 Explanation	圖標 Icon	說明 Explanation	圖標 Icon	說明 Explanation	圖標 Icon	說明 Explanation
	圓孔倒角 Chamfer Of Rounding Hole		平面銑削 Slab Milling		V角開槽 V Corner Slotced		側 銑 Side Milling
	圓孔外 R 倒角 Round Hole Outside R Chamfering		斜度坡走銑 Angular Plunge Grinding		倒 角 Chamfer		斜面側銑 Incline Side Milling
	背面 V 槽 Back Side V Type Groove		全開槽 Full Slot		V 型開槽 V Type Slotced		側面倒角 Side Chamfering
	平面螺旋銑削 Spiral Face Milling		R 角開槽 R Corner Slotced		內 R 角倒角 Internal R Corner Chamfer		內 R 開槽 Internal R Slotced
	R 角螺旋銑削 Spiral Radius Corner Milling		R 溝槽 R Slot		外 R 倒角 Outer R Chamfer		定位加工 Position Processing
	圓型螺旋銑削 Spiral Ball Surface Milling		C 角開槽 C Corner Slotced		背面倒角 Back Chamfering		拋物線加工 Parabolic Milling
	段差平面加工 Step Plane Machining		T 型槽銑 T Type Solt		背面內 R 倒角 Backside Inner R Chamfering		曲面銑削 Surface Milling
	R 角段差加工 Step Radius Corner Machining		R 角 T 型槽銑 R Corner T Type Solt		倒角側銑 Chamfer Side Milling		仿型銑削 Profile Milling
			雕刻銑削 Carving Milling		R 角側銑 R Corner Side Milling		內倒角 Internal Chamfer

平刀系列索引表

Index for Square Type Series

	產品形狀 Item Style	柄部直徑 (mm) Shank	規格圖標 Description	頁碼 Page
	S-EMM 2000 	Ø4	      	B18
NEW	S-EMML 2000L2 	Ø4	      	B19 – B20
	S-OGM 2000 	Ø4 Ø6	      	B21 – B22
NEW	EMM 2000 	Ø4 Ø10 Ø16 Ø6 Ø12 Ø20 Ø8 Ø14	      	B24 – B26
NEW	EMM 2000L1 	Ø4 Ø10 Ø6 Ø12 Ø8	      	B27 – B30
	EMM 2000T00 	Ø4 Ø10 Ø6 Ø8	      	B31
	EMM 3000 	Ø4 Ø10 Ø6 Ø12 Ø8 Ø16	      	B32
NEW	EMM 4000 	Ø4 Ø10 Ø20 Ø6 Ø12 Ø8 Ø16	      	B33 – B34
NEW	EMM 4000L1 	Ø4 Ø10 Ø16 Ø6 Ø12 Ø20 Ø8 Ø14	      	B35 – B36
NEW	EPM 2000 	Ø4 Ø10 Ø6 Ø12 Ø8	      	B38 – B39
NEW	EPM 3000 	Ø6 Ø8 Ø10	      	B40
NEW	EPM 4000 	Ø4 Ø10 Ø6 Ø12 Ø8 Ø16	      	B41
NEW	GMM 3000 	Ø4 Ø10 Ø6 Ø12 Ø8	      	B43
NEW	GMM 4000 	Ø4 Ø10 Ø20 Ø6 Ø12 Ø25 Ø8 Ø16	      	B44 – B45
	GMM 6000 	Ø4 Ø10 Ø20 Ø6 Ø12 Ø25 Ø8 Ø16	      	B47

	產品形狀 Item Style	柄部直徑 (mm) Shank	規格圖標 Description	頁碼 Page
NEW	GPM 6000 	Ø4 Ø10 Ø20 Ø6 Ø12 Ø25 Ø8 Ø16	MG    P  TiSin	B48
NEW	MU-EMM 4000 	Ø4 Ø10 Ø20 Ø6 Ø12 Ø8 Ø16	MG    M  Altin	B50 – B51
NEW	MU-GMM 4000 	Ø4 Ø10 Ø20 Ø6 Ø12 Ø8 Ø16	MG    M  Altin	B52 – B56
NEW	MU-GPM 4000 	Ø4 Ø10 Ø6 Ø12 Ø8 Ø16	MG    P  TiSin	B57
NEW	MU2-GPM 4000 	Ø4 Ø10 Ø20 Ø6 Ø12 Ø8 Ø16	MG    P  TiSin	B59 – B60
NEW	MU2-GYM 4000 	Ø4 Ø10 Ø6 Ø12 Ø8 Ø16	MG    Y  TSY	B61
	MUH-FMM 4000 	Ø4 Ø10 Ø20 Ø6 Ø12 Ø8 Ø16	MG    M  Altin	B62
NEW	MUH-FPM 4000 	Ø4 Ø10 Ø20 Ø6 Ø12 Ø8 Ø16	MG    P  TiSin	B63
	MUH-GMM 4000 	Ø4 Ø10 Ø20 Ø6 Ø12 Ø8 Ø16	MG    M  Altin	B64
NEW	MUH-IMM 4000 	Ø4 Ø10 Ø20 Ø6 Ø12 Ø8 Ø16	MG    M  Altin	B67 – B68
	MUH-IMM 4000 -DIN 	Ø4 Ø10 Ø20 Ø6 Ø12 Ø8 Ø16	MG    M  Altin	B69
	MUH-IPM 3000L1 	Ø4 Ø10 Ø6 Ø12 Ø8 Ø16	MG    P  TiSin	B70
	MUH-IPM 4000 	Ø4 Ø10 Ø20 Ø6 Ø12 Ø8 Ø16	MG    P  TiSin	B71 – B72
NEW	MUH-IGM 4000 	Ø4 Ø10 Ø20 Ø6 Ø12 Ø8 Ø16	MG    G  Altin	B73
NEW	MUH-IEM 4000 	Ø4 Ø10 Ø20 Ø6 Ø12 Ø8 Ø16	MG    E  TiSin	B74
NEW	MUH-IYM 4000 	Ø4 Ø10 Ø6 Ø12 Ø8 Ø16	MG    Y  TSY	B75 – B76

	產品形狀 Item Style	柄部直徑 (mm) Shank	規格圖標 Description	頁碼 Page
	LUH-IMM 4000 	Ø6 Ø8 Ø10	      	B77
NEW	MMH-LMM 4000 	Ø4 Ø10 Ø6 Ø12 Ø8 Ø16	      	B79
NEW	MMH-LPM 4000 	Ø4 Ø10 Ø6 Ø12 Ø8 Ø16	      	B80
	FM-CMM 4000 	Ø6 Ø12 Ø8 Ø16 Ø10	      	B81
NEW	RM-CMM 4000 	Ø4 Ø10 Ø6 Ø12 Ø8 Ø16	      	B82
NEW	CFM-CWM 	Ø4 Ø8 Ø5 Ø10 Ø6 Ø12	    	B83

球頭刀系列索引表

Index for Ball Nose Type Series

產品形狀 Item Style	柄部直徑 (mm) Shank	規格圖標 Description	頁碼 Page
S-EMB 2000 	Ø4	      	B84
S-EMB 2000L2 	Ø4	      	B85
S-EPB 2000 	Ø4	      	B86
NEW EMB 2000 	Ø3 Ø6 Ø12 Ø4 Ø8 Ø16 Ø5 Ø10 Ø20	      	B87 – B89
NEW EMB 2000L2 	Ø4 Ø6 Ø8	      	B90 – B91
EMB 4000 	Ø4 Ø10 Ø20 Ø6 Ø12 Ø8 Ø16	      	B92 – B93
EWB 2000 	Ø4 Ø10 Ø6 Ø12 Ø8	    	B94
NEW EPB 2000 	Ø3 Ø8 Ø16 Ø4 Ø10 Ø20 Ø6 Ø12	      	B95
NEW EPB 4000 	Ø4 Ø10 Ø20 Ø6 Ø12 Ø8 Ø16	      	B96
EEB 2000 	Ø4 Ø10 Ø6 Ø12 Ø8	      	B97
DMB 2000 	Ø4 Ø10 Ø6 Ø12 Ø8	      	B98
DWB 2000L2 	Ø4	    	B99
DPB 2000 	Ø6 Ø10	      	B100

拋物線弧形加工刀索引表

Index for Parabolic Arc Machining Series

產品形狀 Item Style	柄部直徑 (mm) Shank	規格圖標 Description	頁碼 Page
PA-DPB 	Ø6 Ø12 Ø8 Ø10	      	B102

內R角刀索引表

Index for Inner R Type Series

產品形狀 Item Style	柄部直徑 (mm) Shank	規格圖標 Description	頁碼 Page
EPU 4000L1 	Ø4 Ø10 Ø6 Ø12 Ø8 Ø16	      	B104

圓鼻刀系列索引表

Index for Corner Radius Type Series

	產品形狀 Item Style	柄部直徑 (mm) Shank	規格圖標 Description	頁碼 Page
	DMR 2000R00 	Ø4 Ø10 Ø6 Ø12 Ø8	     30 	B105-B106
NEW	DMR 2000R00L2 	Ø4 Ø10 Ø6 Ø12 Ø8	     30 	B107
NEW	DMR 4000R00 	Ø3 Ø8 Ø16 Ø4 Ø10 Ø6 Ø12	     30 	B108-B110
NEW	DPR 4000R00 	Ø3 Ø4 Ø8	     30 	B111
	GPR 6000R00 	Ø6 Ø12 Ø8 Ø16 Ø10 Ø20	     45 	B112
NEW	PH-FMR 4000R00 	Ø4 Ø10 Ø6 Ø12 Ø8 Ø16	     35 	B113
NEW	PH-FPR 4000R00 	Ø4 Ø10 Ø6 Ø12 Ø8	     35 	B114-B115
	PH-FER 4000R00 	Ø4 Ø10 Ø6 Ø12 Ø8	     35 	B116
NEW	PH-FPC 4000C00 	Ø4 Ø10 Ø6 Ø12 Ø8 Ø16	     35 	B117
NEW	SUH-FMR 5000R00L1-DIN 	Ø6 Ø12 Ø8 Ø16 Ø10 Ø20	     35 	B119
NEW	SUH-FYR 4000R00 	Ø4 Ø10 Ø20 Ø6 Ø12 Ø8 Ø16	     35 	B121-B122

定位、倒角刀系列索引表

Index for Position vs Chamfer Series

產品形狀 Item Style	柄部直徑 (mm) Shank	規格圖標 Description	頁碼 Page
CC-AMC 	Ø6 Ø12 Ø8 Ø10	MG    M  Altin	B123
CR-AMC 	Ø6 Ø12 Ø8 Ø10	MG    M  Altin	B124
DT-DMC 2000 	Ø3 Ø6 Ø12 Ø4 Ø8 Ø16 Ø5 Ø10 Ø20	MG    M  30 Altin	B125
DC-DMC 2000 	Ø3 Ø6 Ø12 Ø4 Ø8 Ø16 Ø5 Ø10 Ø20	MG    M  30 Altin	B126
DR-DMC 2000 	Ø3 Ø6 Ø12 Ø4 Ø8 Ø16 Ø5 Ø10 Ø20	MG    M  30 Altin	B127
DC-DWC 2000 	Ø3 Ø6 Ø16 Ø4 Ø8 Ø5 Ø10	MG    30	B128
DR-DWC 2000 	Ø3 Ø6 Ø16 Ø4 Ø8 Ø5 Ø10	MG    30	B129
DC-DPC 2000 	Ø3 Ø6 Ø12 Ø4 Ø8 Ø16 Ø5 Ø10 Ø20	MG    P  30 TiSin	B130
NEW DC-DMM 2000 	Ø4 Ø10 Ø20 Ø6 Ø12 Ø8 Ø16	MG    M  30 Altin	B131
DR-DMM 2000 	Ø6 Ø12 Ø8 Ø16 Ø10 Ø20	MG    M  30 Altin	B132
NEW DCC-AMC-DIN 	Ø4 Ø10 Ø6 Ø12 Ø8	MG    M  Altin	B133
NEW DCH-YMC 2000 	Ø3 Ø6 Ø12 Ø4 Ø8 Ø16 Ø5 Ø10 Ø20	MG    M  12 Altin	B134
DCM-EPC 3000 	Ø3 Ø8 Ø4 Ø10 Ø6 Ø12	MG    P  35 TiSin	B135

外R倒角刀索引表

Index for Outer R Chamfer Series

產品形狀 Item Style	柄部直徑 (mm) Shank	規格圖標 Description	頁碼 Page
 AMI 2000	Ø4 Ø12 Ø6 Ø16 Ø8	    	B137

T型槽刀索引表

Index for T-Type Slot Series

產品形狀 Item Style	柄部直徑 (mm) Shank	規格圖標 Description	頁碼 Page
 AMT	Ø8 Ø12	    	B138
 AMT	Ø6 Ø12 Ø8 Ø10	    	B139
 AWH	Ø8	   	B140

鋁用雕刻刀系列索引表

Index for Engraving For Aluminum Series

產品形狀 Item Style	柄部直徑 (mm) Shank	規格圖標 Description	頁碼 Page
 E180-AWA 1000L1	Ø3 Ø6 Ø12 Ø4 Ø8 Ø5 Ø10	   	B141
 E030-AWC 1000L1	Ø3 Ø6 Ø4 Ø5	   	B142

鋁合金專用鎢鋼端銑刀索引表

Index for Aluminum Type Carbide End Mill Series

	產品形狀 Item Style	柄部直徑 (mm) Shank	規格圖標 Description	頁碼 Page
	GMA 2000 	Ø6 Ø8 Ø10	    	B143
NEW	GMA 3000 	Ø4 Ø10 Ø20 Ø6 Ø12 Ø8 Ø16	    	B144-B145
	HMA 2000 	Ø4 Ø10 Ø6 Ø12 Ø8 Ø16	    	B146-B147
	HMA 3000 	Ø4 Ø10 Ø20 Ø6 Ø12 Ø8 Ø16	    	B148
NEW	LU2-GWA 3000 	Ø6 Ø10	    	B149
NEW	MU2-GMA 3000 	Ø4 Ø9 Ø16 Ø6 Ø10 Ø20 Ø8 Ø12	    	B150
NEW	MU2-HMA 3000 	Ø4 Ø10 Ø6 Ø12 Ø8 Ø16	    	B151
NEW	MU3-JMA 3000 	Ø4 Ø8 Ø16 Ø5 Ø10 Ø20 Ø6 Ø12	    	B154

Recoommend Cutting List

○第二推薦 Second recommend

材質銑削推薦表—CARBIDE END MILL 鎢鋼端銑刀

材質銑削推薦表

Recommend Cutting List

◎第一推薦 First recommend

○第二推薦 Second recommend

塗層材質分類 Coating Material Classification	適用領域建議 Suit Filed Suggestion			P	M	K	X	N	H	S				
	高精度 High Precision	輕切削 Light Cutting	重切削 Roughing Cutting	一般鋼 Steel	合金鋼 Alloy Steel	碳鋼 Carbon Steel	不銹鋼 Stainless Steel	鑄鐵 Cast Iron	銅 Copper	鋁合金 Aluminum	複合材質 Composites	高硬度材 High Hardness Material	難切削材 Hard to Cut Material	
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			◎	◎	◎	◎	○	○					
T型槽刀塗層 T-Type Slot Coating (PVD)	AMT			◎	◎	◎	◎	○	○					
倒角刀塗層 Countersink Coating (PVD)	High Speed Processing ↑ Standard Processing ↓ High Speed Processing ↑ Standard Processing ↓	高速加工 (Vf)							○	◎				
		DC-DWC												
		DC-DPC、DCC-AMC-DIN、 DCM-EPC、DCH-YMC			◎	◎	◎	◎	◎					○
		DC-DMC、DR-DMC、 DT-DMC、DC-DMM			◎	◎	○	◎	◎					
		CC-AMC、CR-AMC			◎	◎	○	◎	◎					
粗、精 銑刀塗層 Roughing vs. Finishing Cutter Coating (PVD)	High Speed Processing ↑ Standard Processing ↓ High Speed Processing ↑ Standard Processing ↓	高速加工 (Vf)								○	○	◎		
		CFM-CWM												
		FM-CMM、RM-CMM			◎	◎	○	◎	◎	○				
鋁用銑刀 (無塗層) Aluminum Carbide End Mill Without Coating	High Speed Processing ↑ Standard Processing ↓ High Speed Processing ↑ Standard Processing ↓	高速加工 (Vf)								○	◎			
		MU3-JMA												
		MU2-GMA、LU2-GMA MU2-HMA									○	◎		
		GMA									○	◎		
		HMA								○	◎			
		E180-AWA E030-AWC								○	◎			



精準無比

Unparalleled Precision

微小徑銑刀的專家

Micro Carbide Micro Diameter End Mill Expert

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，獨特刀體結構設計，有效抑制加工震動，提升銑刀加工壽命

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。

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。

Adopts a full carbide cutter body, ultra-fine particle cemented carbide AlTiN coating.

Micro-diameter design is beneficial to the processing requirements cutting.

GMA、HMA

更多微小徑鋁合金專用銑刀
規格詳見第B143~B148頁

S-EPB

更多微小徑抗震球頭銑刀規格
詳見第B95頁

S-EMB、S-EMB2000L2

更多微小徑球頭銑刀規格詳見
第B84~B85頁

S-EMM、S-EMML、S-OGM

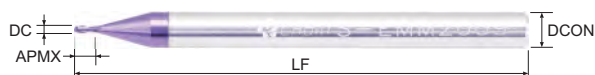
更多微小徑銑刀規格詳見
第B18~B22頁

Micro Diameter for Aluminum Carbide
End Mill Type Reference Page -B132~B137

Micro Diameter Vibration Resistant Ball Nose
Carbide End Mill Type Reference Page - B86

Micro Diameter Ball Nose Carbide End Mill
Type Reference Page - B84~B85

Micro Diameter Carbide End Mill
Type Reference Page-B18~B22



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

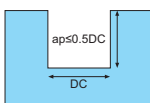
The Cutting Data For S-EMM 2000 Series

被加工材質 Material   

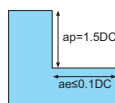
直徑 (mm) Shank		4
轉速 n (min)		4800
進給速度 (mm/min) Vf	開槽 Slotted	135
	側邊 Side	475

切削深度 Cutting depth

開槽 Slotted



側邊 Side



ap : 軸向切削深度 Axial depth of cutting

ae : 徑向切削深度 Radial depth of cutting

DC : 刃徑 Diameter of cutting

S-EMML 2000L2 微小徑長頸短刃 2 刃鎢鋼端銼刀

Micro Diameter Long Neck Short Flute 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	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-EMML2007L203	●	0.7	1.05	4	3	50	
S-EMML2007L204	●	0.7	1.05	4	4	50	
S-EMML2008L203		0.8	1.2	4	3	50	
S-EMML2008L204	●	0.8	1.2	4	4	50	
S-EMML2008L206	●	0.8	1.2	4	6	50	
S-EMML2008L208	●	0.8	1.2	4	8	50	
S-EMML2008L210	●	0.8	1.2	4	10	50	
S-EMML2010L204	●	1	1.5	4	4	50	
S-EMML2010L206	●	1	1.5	4	6	50	
S-EMML2010L208		1	1.5	4	8	50	
S-EMML2010L210	●	1	1.5	4	10	50	
S-EMML2010L212		1	1.5	4	12	50	
S-EMML2015L204		1.5	2.25	4	4	50	
S-EMML2015L206		1.5	2.25	4	6	50	
S-EMML2015L208	●	1.5	2.25	4	8	50	
S-EMML2015L210	●	1.5	2.25	4	10	50	
S-EMML2015L212	●	1.5	2.25	4	12	50	
S-EMML2020L206		2	3	4	6	50	
S-EMML2020L208	●	2	3	4	8	50	
S-EMML2020L210	●	2	3	4	10	50	
S-EMML2020L212	●	2	3	4	12	50	
S-EMML2020L214	●	2	3	4	14	50	
S-EMML2020L216	●	2	3	4	16	50	
S-EMML2030L208		3	4.5	4	8	50	

※ 請接下頁。 ※ Continued on next page.

S-EMML 2000L2 微小徑長頸短刃2刃鎢鋼端銑刀
Micro Diameter Long Neck Short Flute 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	可使用長度 LU	標準全長 LF	價格 Price
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 2000L2系列切削參數

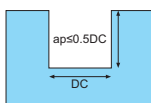
The Cutting Data For S-EMML 2000L2 Series

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

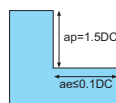
直徑 (mm) Shank		4
轉速 n (min)		4800
進給速度 (mm/min) Vf	開槽 Slotted	135
	側邊 Side	475

切削深度 Cutting depth

開槽 Slotted



側邊 Side



ap: 軸向切削深度 Axial depth of cutting

ae: 徑向切削深度 Radial depth of cutting

DC: 刃徑 Diameter of cutting

S-OGM 2000 微小徑 2 刃鎢鋼端銑刀

Micro Diameter 2 Flute Carbide End Mill



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

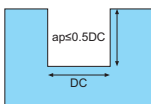
鑄鐵

Cast Iron

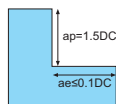
直徑 (mm) Shank		4	6
轉速 n (min)		4800	3100
進給速度 (mm/min) V_f	開槽 Slotted	135	120
	側邊 Side	475	375

切削深度 Cutting depth

開槽 Slotted



側邊 Side



a_p : 軸向切削深度 Axial depth of cutting

a_e : 徑向切削深度 Radial depth of cutting

DC : 刃徑 Diameter of cutting

EMM 系列 鎢鋼端銑刀系列

Carbide End Mill Series

採用螺旋角35°設計 Helix angle of 35° degrees

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
Unique blade structure design, reduce the vibration generated during processing, improve tool life, enhance the effect of remove chip.

全新進口棒材，可加工高硬度HRC55°

New material, can process high hardness HRC55°

可側銑 可插槽 Can Side milling and Slot

EMM 2000

更多 2 刃鎢鋼端銑刀
規格詳見第B24~B26頁
2 Flute Carbide End Mill Type
Reference Page-B24~B26

EMM 3000

更多 3 刃鎢鋼端銑刀
規格詳見第B32頁
3 Flute Carbide End Mill Type
Reference Page-B32

EMM 4000

更多 4 刃鎢鋼端銑刀
規格詳見第B33~B34頁
4 Flute Carbide End Mill Type
Reference Page-B33~B34



適用材質 Material

鋼

Steel

不銹鋼

Stainless Steel

鑄鐵

Cast Iron

EMM 2000 2 刃鎢鋼端銑刀
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	切削長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
EMM2010	●	1	2.5	4	50	
EMM2010D6	●	1	2.5	6	50	
EMM2015	●	1.5	3.75	4	50	
EMM2020	●	2	5	4	50	
EMM2020D6	●	2	5	6	50	
EMM2025	●	2.5	6.25	4	50	
EMM2025D6	●	2.5	6.25	6	50	
EMM2030	●	3	7.5	4	50	
EMM2030D6	●	3	7.5	6	50	
EMM2030E1	●	3	7.5	4	75	
EMM2035	●	3.5	8.75	4	50	
EMM2035D6	●	3.5	8.75	6	50	
EMM2036	●	3.6	9	4	50	
EMM2038	●	3.8	9.5	4	50	
EMM2040	●	4	10	4	50	
EMM2040D6	●	4	10	6	50	
EMM2040E1	●	4	10	4	75	
EMM2040H	●	4	10	4	100	
EMM2045	●	4.5	11.25	6	50	
EMM2047	●	4.7	11.75	6	50	
EMM2050	●	5	12.5	6	50	
EMM2050D5		5	12.5	5	50	
EMM2050E1	●	5	12.5	6	75	
EMM2050H	●	5	12.5	6	100	
EMM2055	●	5.5	13.75	6	50	
EMM2057	●	5.7	14.25	6	50	
EMM2060	●	6	15	6	50	
EMM2060E1	●	6	15	6	75	
EMM2060H	●	6	15	6	100	
EMM2064	●	6.4	16	8	60	
EMM2068	●	6.8	17	8	60	
EMM2070	●	7	17.5	8	60	
EMM2071	●	7.1	17.75	8	60	

※ 請接下頁。 ※ Continued on next page.

EMM 2000 2 刃鎢鋼端銑刀
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	切削長度 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	
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	
NEW EMM2125D14	●	12.5	31.25	14	100	
NEW EMM2135	●	13.5	33.75	16	100	
EMM2140	●	14	35	16	100	
EMM2160	●	16	48	16	100	
EMM2160M	●	16	48	16	150	
EMM2160R	●	16	48	16	200	
NEW EMM2180	●	18	45	20	100	
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

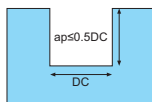
鑄鐵

Cast Iron

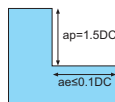
直徑 (mm) Shank		4	5	6	8	10	12	14	16	20
轉速 n (min)		4800	3800	3100	2300	1900	1600	1300	1200	950
進給速度 (mm/min) V _f	開槽 Slotted	135	120	120	120	120	120	135	135	135
	側邊 Side	475	325	325	375	375	275	200	200	165

切削深度 Cutting depth

開槽 Slotted



側邊 Side



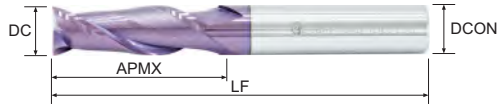
ap : 軸向切削深度 Axial depth of cutting

ae : 徑向切削深度 Radial depth of cutting

DC : 刃徑 Diameter of cutting

EMM 2000L1 2刃3倍刃長鎢鋼端銑刀

2 Flutes With Triple Flute Length Carbide End Mill



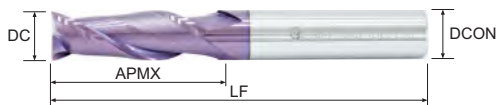
新規格上市
New Specification Arrival



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	
NEW EMM2015L1018	●	1.5	1.8	4	50	
EMM2015L1045	●	1.5	4.5	4	50	
EMM2016L1048	●	1.6	4.8	4	50	
EMM2017L1051	●	1.7	5.1	4	50	
EMM2018L1054	●	1.8	5.4	4	50	
EMM2019L1057	●	1.9	5.7	4	50	
EMM2020L106	●	2	6	4	50	
EMM2020L106D6	●	2	6	6	50	
EMM2021L1063	●	2.1	6.3	4	50	
EMM2022L1066	●	2.2	6.6	4	50	
EMM2023L1069	●	2.3	6.9	4	50	
EMM2024L1072	●	2.4	7.2	4	50	
EMM2025L1075	●	2.5	7.5	4	50	
EMM2026L1078	●	2.6	7.8	4	50	
EMM2027L1081	●	2.7	8.1	4	50	
EMM2028L1084	●	2.8	8.4	4	50	
EMM2029L1087	●	2.9	8.7	4	50	
EMM2030L109	●	3	9	4	50	
EMM2030L109D3	●	3	9	3	50	
EMM2030L109D6	●	3	9	6	50	
EMM2031L1093	●	3.1	9.3	4	50	
NEW EMM2031L1093D6	●	3.1	9.3	6	50	
EMM2032L1096	●	3.2	9.6	4	50	
NEW EMM2032L1096D6	●	3.2	9.6	6	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	

※ 請接下頁。 ※ Continued on next page.

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



 **新規格上市**
New Specification Arrival

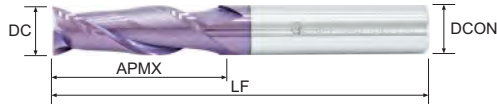


產品型號 Model No	在庫 Stock	切削直徑 DC	切刃長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
EMM2037L1111	●	3.7	11.1	4	50	
EMM2038L1114	●	3.8	11.4	4	50	
EMM2039L1117	●	3.9	11.7	4	50	
EMM2040L112	●	4	12	4	50	
EMM2040L112D6	●	4	12	6	50	
EMM2041L1123	●	4.1	12.3	6	50	
EMM2042L1126	●	4.2	12.6	6	50	
EMM2043L1129	●	4.3	12.9	6	50	
EMM2044L1132	●	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	
EMM2056L1168	●	5.6	16.8	6	50	
EMM2057L1171	●	5.7	17.1	6	50	
EMM2058L1174	●	5.8	17.4	6	50	
EMM2059L1177	●	5.9	17.7	6	50	
EMM2060L118	●	6	18	6	50	
EMM2061L1183	●	6.1	18.3	8	60	
EMM2062L1186	●	6.2	18.6	8	60	
EMM2063L1189	●	6.3	18.9	8	60	
EMM2064L1192	●	6.4	19.2	8	60	
EMM2065L1195	●	6.5	19.5	8	60	
EMM2066L1198	●	6.6	19.8	8	60	
EMM2067L1201	●	6.7	20.1	8	60	
EMM2068L1204	●	6.8	20.4	8	60	

※ 請接下頁。 ※ Continued on next page.

EMM 2000L1 2刃3倍刃長鎢鋼端銑刀

2 Flutes With Triple Flute Length Carbide End Mill



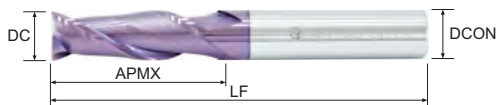
新規格上市
New Specification Arrival



產品型號 Model No	在庫 Stock	切削直徑 DC	切削長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
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	
EMM2080L124H	●	8	24	8	100	
EMM2080L140M	●	8	40	8	150	
EMM2081L1243	●	8.1	24.3	10	75	
EMM2082L1246	●	8.2	24.6	10	75	
EMM2083L1249	●	8.3	24.9	10	75	
EMM2084L1252	●	8.4	25.2	10	75	
EMM2085L1255	●	8.5	25.5	10	75	
EMM2086L1258	●	8.6	25.8	10	75	
EMM2087L1261	●	8.7	26.1	10	75	
EMM2088L1264	●	8.8	26.4	10	75	
EMM2089L1267	●	8.9	26.7	10	75	
EMM2090L127	●	9	27	10	75	
EMM2091L1273	●	9.1	27.3	10	75	
EMM2092L1276	●	9.2	27.6	10	75	
EMM2093L1279	●	9.3	27.9	10	75	
EMM2094L1282	●	9.4	28.2	10	75	
EMM2095L1285	●	9.5	28.5	10	75	
EMM2096L1288	●	9.6	28.8	10	75	
EMM2097L1291	●	9.7	29.1	10	75	
EMM2098L1294	●	9.8	29.4	10	75	
EMM2099L1297	●	9.9	29.7	10	75	

※ 請接下頁。 ※ Continued on next page.

EMM 2000L1 2刃3倍刃長鎢鋼端銑刀
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
EMM2100L130	●	10	30	10	75	
EMM2101L1303	●	10.1	30.3	12	75	
EMM2102L1306	●	10.2	30.6	12	75	
EMM2103L1309	●	10.3	30.9	12	75	
EMM2104L1312	●	10.4	31.2	12	75	
EMM2105L1315	●	10.5	31.5	12	75	
EMM2106L1318	●	10.6	31.8	12	75	
EMM2107L1321	●	10.7	32.1	12	75	
EMM2108L1324	●	10.8	32.4	12	75	
EMM2109L1327	●	10.9	32.7	12	75	
EMM2110L133	●	11	33	12	75	
EMM2111L1333	●	11.1	33.3	12	75	
EMM2112L1336	●	11.2	33.6	12	75	
EMM2113L1339	●	11.3	33.9	12	75	
EMM2114L1342	●	11.4	34.2	12	75	
EMM2115L1345	●	11.5	34.5	12	75	
EMM2116L1348	●	11.6	34.8	12	75	
EMM2117L1351	●	11.7	35.1	12	75	
EMM2118L1354	●	11.8	35.4	12	75	
EMM2119L1357	●	11.9	35.7	12	75	
EMM2120L136	●	12	36	12	75	

EMM 2000L1系列切削參數

The Cutting Data For EMM 2000L1 Series

被加工材質
Material

鋼
Steel

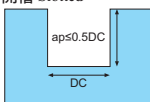
不鏽鋼
Stainless steel

鑄鐵
Cast Iron

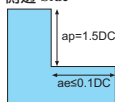
直徑 (mm) Shank	3	4	6	8	10	12
轉速 n (min)	6300	4800	3100	2300	1900	1600
進給速度 Vf (mm/min)	開槽 Slotted	135	135	120	120	120
	側邊 Side	475	475	325	375	375

切削深度 Cutting depth

開槽 Slotted



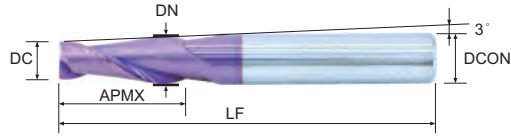
側邊 Side



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

EMM 2000T00

2 刃斜度鎢鋼端銑刀
2 Flutes Tapered Carbided End Mill



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

EMM 2000T00系列切削參數

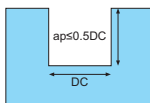
The Cutting Data For EMM 2000T00 Series

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

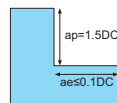
直徑 (mm) Shank		4	6	8	10
轉速 n (min)		4800	3100	2300	1900
進給速度 Vf (mm/min)	開槽 Slotted	135	120	120	120
	側邊 Side	475	325	375	375

切削深度 Cutting depth

開槽 Slotted



側邊 Side

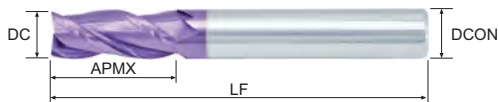


ap : 軸向切削深度 Axial depth of cutting

ae : 徑向切削深度 Radial depth of cutting

DC : 刃徑 Diameter of cutting

EMM 3000 3 刃鎢鋼端銑刀
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
EMM3040	●	4	10	4	50	
EMM3050	●	5	12.5	6	50	
EMM3058	●	5.8	14.5	6	50	
EMM3060	●	6	15	6	50	
EMM3078	●	7.8	19.5	8	60	
EMM3080	●	8	20	8	60	
EMM3100	●	10	25	10	75	
EMM3100L130	●	10	30	10	75	
EMM3120L136	●	12	36	12	75	
EMM3120L157H		12	57	12	100	
EMM3160	●	16	48	16	100	

EMM 3000系列切削參數

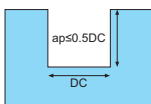
The Cutting Data For EMM 3000 Series

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

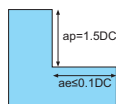
直徑 (mm) Shank		4	6	8	10	12	16
轉速 n (min)		4800	3100	2300	1900	1600	1200
進給速度 Vf (mm/min)	開槽 Slotted	180	180	180	180	180	180
	側邊 Side	500	500	580	580	580	580

切削深度 Cutting depth

開槽 Slotted



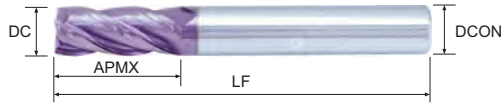
側邊 Side



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 刃鎢鋼端銑刀
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	
EMM4030D6	●	3	7.5	6	50	
EMM4030E1	●	3	7.5	4	75	
EMM4035	●	3.5	8.75	4	50	
EMM4035D6	●	3.5	8.75	6	50	
EMM4040	●	4	10	4	50	
EMM4040D6	●	4	10	6	50	
EMM4040E1	●	4	10	4	75	
EMM4040H	●	4	10	4	100	
EMM4045	●	4.5	11.25	6	50	
EMM4050	●	5	12.5	6	50	
EMM4050E1	●	5	12.5	6	75	
EMM4050H	●	5	12.5	6	100	
EMM4055	●	5.5	13.75	6	50	
EMM4060	●	6	15	6	50	
EMM4060E1	●	6	15	6	75	
EMM4060H	●	6	15	6	100	
EMM4060M	●	6	15	6	150	
EMM4065	●	6.5	16.25	8	60	
EMM4070	●	7	17.5	8	60	
EMM4075	●	7.5	18.75	8	60	
EMM4080	●	8	20	8	60	
EMM4080E1	●	8	20	8	75	
EMM4080H	●	8	20	8	100	
EMM4080M	●	8	20	8	150	

NEW

※ 請接下頁。 ※ Continued on next page.

EMM 4000 4 刃鎢鋼端銑刀
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	切削長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
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	
EMM4180M	●	18	45	20	150	
EMM4200	●	20	50	20	100	
EMM4200M	●	20	50	20	150	
EMM4200R	●	20	50	20	200	

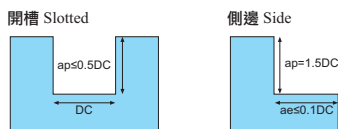
EMM 4000系列切削參數

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 (mm/min) Vf	開槽 Slotted	200	180	180	180	180	200	225	300
	側邊 Side	700	500	580	580	410	300	450	240

切削深度 Cutting depth



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 刃鎢鋼端銼刀
Long Flute 4 Flutes Carbide End Mill


新規格上市
New Specification Arrival



產品型號 Model No	在庫 Stock	切削直徑 DC	切刃長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
EMM4010L103		1	3	4	50	
EMM4015L1045		1.5	4.5	4	50	
EMM4020L106	●	2	6	4	50	
EMM4025L1075	●	2.5	7.5	4	50	
EMM4025L1075D6	●	2.5	7.5	6	50	
EMM4030L109	●	3	9	4	50	
EMM4030L109D6	●	3	9	6	50	
EMM4030L113D6		3	13	6	50	
EMM4032L1064D6		3.2	6.4	6	50	
EMM4040L112	●	4	12	4	50	
EMM4040L114D6		4	14	6	50	
EMM4040L120E1	●	4	20	4	75	
EMM4050L115	●	5	15	6	50	
EMM4050L125E1	●	5	25	6	75	
EMM4060L118	●	6	18	6	50	
EMM4060L125E1	●	6	25	6	75	
EMM4060L130E1	●	6	30	6	75	
EMM4060L130H	●	6	30	6	100	
EMM4080L124	●	8	24	8	60	
EMM4080L130E1	●	8	30	8	75	
EMM4080L135H	●	8	35	8	100	
EMM4080L140M	●	8	40	8	150	
EMM4100L130	●	10	30	10	75	
EMM4100L140H	●	10	40	10	100	
EMM4100L145H	●	10	45	10	100	
EMM4100L150M	●	10	50	10	150	
EMM4100L155H	●	10	55	10	100	
EMM4120L136	●	12	36	12	75	
EMM4120L145H	●	12	45	12	100	
EMM4120L150M	●	12	50	12	150	
EMM4120L155H	●	12	55	12	100	
EMM4130L139D16	●	13	39	16	100	
EMM4140L142	●	14	42	16	100	

※ 請接下頁。 ※ Continued on next page.

EMM 4000L1 長刃型 4 刃鎢鋼端銑刀
Long Flute 4 Flutes Carbide End Mill



新規格上市
New Specification Arrival



產品型號 Model No	在庫 Stock	切削直徑 DC	切刃長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
EMM4140L142D14		14	42	14	100	
EMM4160L170M	●	16	70	16	150	
EMM4200L180M	●	20	80	20	150	

EMM 4000L1 系列切削參數

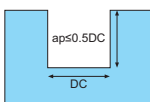
The Cutting Data For EMM 4000L1 Series

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

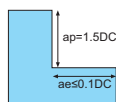
直徑 (mm) Shank		4	6	8	10	12	14	16	18	20
轉速 n (min)		4800	3100	2300	1900	1600	1360	1200	1240	1060
進給速度 Vf (mm/min)	開槽 Slotted	200	180	180	180	180	200	200	225	300
	側邊 Side	700	500	580	580	410	300	300	450	240

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

EPM系列 鎢鋼端銑刀系列

採用螺旋角35°設計 Helix angle of 35° degrees

獨特刀體結構設計，降低加工震動，提升刀具使用壽命，加強排屑效率
Unique blade structure design, reduce the vibration generated during processing, improve tool life, enhance the effect of remove chip.

全新P500高耐磨、高韌性材質，可加工高硬度HRC55°~60°

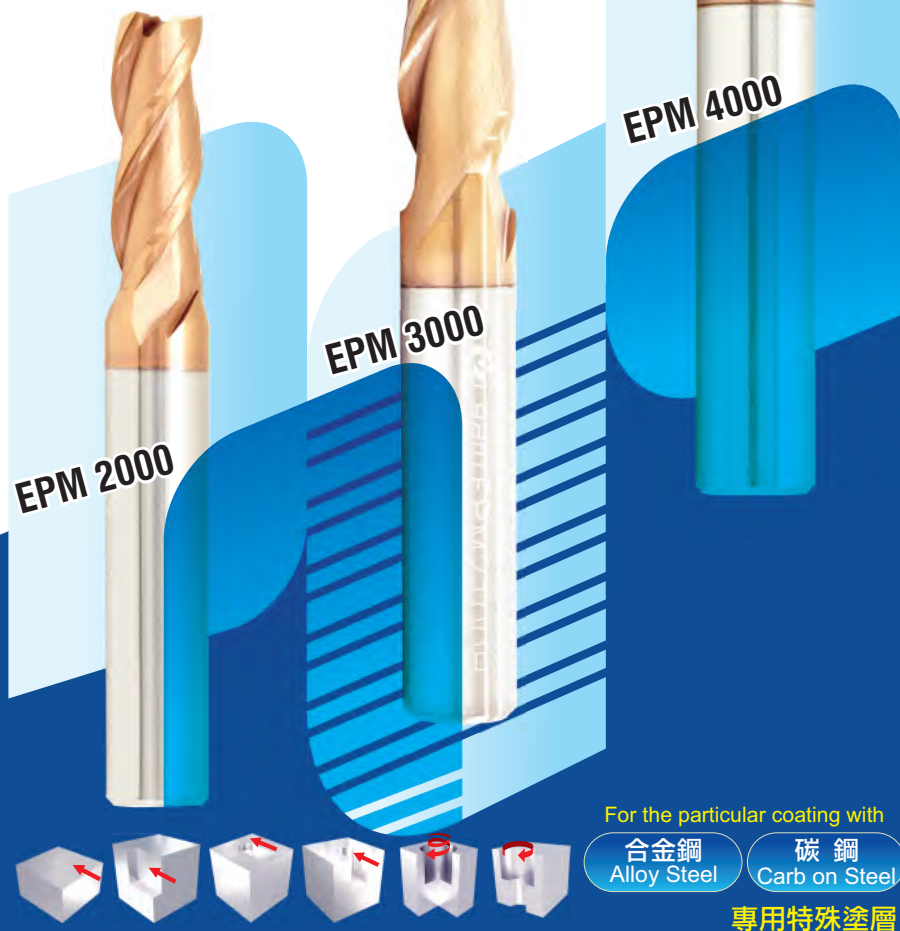
New P500 series with high abrasion resistance, can process high hardness HRC55°~60°.

全新進口棒材 耐震高 抗崩損

可側銑 可插槽

The new material has good shock resistance, high shock resistance and wear resistance.

Can Side milling and Slot



EPM 2000 2 刃鎢鋼端銑刀
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
EPM2010L103		1	3	4	50	
NEW EPM2020	●	2	5	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	
NEW EPM2060		6	15	6	50	
EPM2060E1	●	6	15	6	75	
EPM2060L118		6	18	6	50	
EPM2070L121		7	21	8	60	
EPM2080L124	●	8	24	8	60	
EPM2080L124H		8	24	8	100	
EPM2090L127		9	27	10	75	
EPM2100L130		10	30	10	75	
EPM2100H	●	10	25	10	100	
EPM2100M	●	10	25	10	150	
EPM2110L133		11	33	12	75	
EPM2120L136		12	36	12	75	
EPM2120L150H	●	12	50	12	100	
EPM2120L150M	●	12	50	12	150	

EPM 2000系列切削參數

The Cutting Data For EPM 2000 Series

 被加工材質
 Material

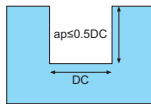
 合金鋼
 Alloy Steel

 碳鋼
 Carbon Steel

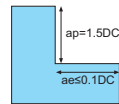
直徑 (mm) Shank		4	6	8	10	12
轉速 n (min)		4800	3100	2300	1900	1600
進給速度 (mm/min) V _f	開槽 Slotted	135	120	120	120	120
	側邊 Side	475	325	375	375	275

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 3000 3 刃鎢鋼端銑刀
3 Flutes Carbide End Mill



新規格上市
New Specification Arrival



產品型號 Model No	在庫 Stock	切削直徑 DC	切刃長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
NEW EPM3040L112E1D6	●	4	12	6	75	
EPM3050	●	5	12.5	6	50	
EPM3050L115		5	15	6	50	
EPM3055L1165		5.5	16.5	6	50	
EPM3060		6	15	6	50	
EPM3070L121	●	7	21	8	60	
EPM3080		8	20	8	60	
EPM3100		10	25	10	75	
EPM3100L130		10	30	10	75	

EPM 3000系列切削參數

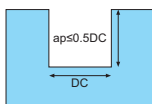
The Cutting Data For EPM 3000 Series

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

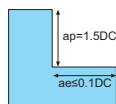
直徑 (mm) Shank	4	5	5.5	6	8	10
轉速 n (min)	4800	3800	3500	3100	2300	1900
進給速度 Vf (mm/min)	開槽 Slotted	180	180	180	180	180
	側邊 Side	500	500	500	580	580

切削深度 Cutting depth

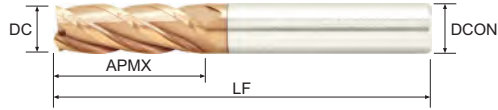
開槽 Slotted



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

EPM 4000 4 刃鎢鋼端銑刀
4 Flutes Carbide 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 EPM4010		1	2.5	4	50	
NEW EPM4010L103	●	1	3	4	50	
NEW EPM4015	●	1.5	3.75	4	50	
NEW EPM4015L104		1.5	4	4	50	
NEW EPM4020		2	5	4	50	
NEW EPM4020L106		2	6	4	50	
NEW EPM4030		3	7.5	4	50	
NEW EPM4040		4	10	4	50	
NEW EPM4040L112		4	12	4	50	
NEW EPM4050		5	12.5	6	50	
NEW EPM4060		6	15	6	50	
NEW EPM4060L118		6	18	6	50	
NEW EPM4060E1		6	15	6	75	
NEW EPM4080		8	20	8	60	
NEW EPM4100		10	25	10	75	
NEW EPM4100L130	●	10	30	10	75	
NEW EPM4120		12	30	12	75	
NEW EPM4160		16	48	16	100	

EPM 4000系列切削參數

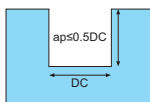
The Cutting Data For EPM 4000 Series

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

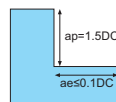
直徑 (mm) Shank	4	6	8	10	12	16
轉速 n (min)	4800	3100	2300	1900	1600	1200
進給速度 (mm/min) Vf	開槽 Slotted	270	240	240	240	270
	側邊 Side	950	650	750	750	400

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

GMM系列 採用螺旋角45°設計
Helix angle of 45° degrees

鎢鋼端銑刀系列 Carbide End Mill Series

全新鎢鋼刀體

獨特刀體結構設計 有效抑制加工震動

提升銑刀加工壽命，加強排屑效率。

New carbide body, **unique blade structure design**
effectively suppress processing vibration
extends processing life and enhances
chip removal efficiency.

GMM 3000

GMM 4000



Using ultra-fine particle carbide
AlTiN coating, increases the wear
resistance of the tool and enhance
chip removal efficiency, HRC 50°~55°.

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，可加工硬度HRC50°~55°



GMM 3000 3刃鎢鋼端銑刀

3 Flutes Carbide End Mill



新品上市
New Arrival



	產品型號 Model No	在庫 Stock	切削直徑 DC	切刃長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
NEW	GMM3030	●	3	7.5	4	50	
NEW	GMM3040	●	4	10	4	50	
NEW	GMM3050	●	5	12.5	6	50	
NEW	GMM3060	●	6	15	6	50	
NEW	GMM3060E1	●	6	15	6	75	
NEW	GMM3080	●	8	20	8	60	
NEW	GMM3100	●	10	25	10	75	
NEW	GMM31207	●	12	30	12	75	

GMM 4000系列切削參數

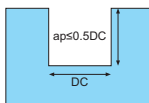
The Cutting Data For GMM 4000 Series

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

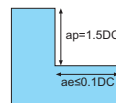
直徑 (mm) Shank		4	6	8	10	12
轉速 n (min)		4800	3100	2300	1900	1600
進給速度 (mm/min) Vf	開槽 Slotted	280	180	180	180	135
	側邊 Side	1100	600	580	580	450

切削深度 Cutting depth

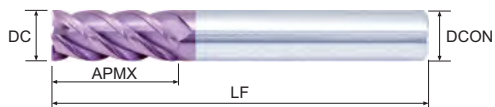
開槽 Slotted



側邊 Side

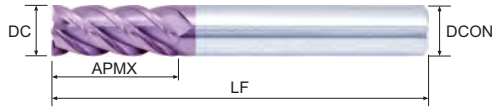


ap : 軸向切削深度 Axial depth of cutting
ae : 徑向切削深度 Radial depth of cutting
DC : 刃徑 Diameter of cutting

GMM 4000 4 刃鎢鋼端銑刀
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
GMM4010	●	1	2.5	4	50	
GMM4010L103	●	1	3	4	50	
GMM4015	●	1.5	3.75	4	50	
GMM4015L103	●	1.5	3	4	50	
GMM4015L104	●	1.5	4	4	50	
GMM4020	●	2	5	4	50	
GMM4020L106	●	2	6	4	50	
GMM4020L106D6	●	2	6	6	50	
GMM4025	●	2.5	6.25	4	50	
GMM4025L106	●	2.5	6	4	50	
GMM4025L107	●	2.5	7	4	50	
GMM4025L1075	●	2.5	7.5	4	50	
GMM4030	●	3	7.5	4	50	
GMM4030L108	●	3	8	4	50	
GMM4030L109	●	3	9	4	50	
GMM4030L112D6	●	3	12	6	50	
GMM4035	●	3.5	8.75	4	50	
GMM4035L1105	●	3.5	10.5	4	50	
GMM4040	●	4	10	4	50	
GMM4040L112	●	4	12	4	50	
GMM4045	●	4.5	11.25	6	50	
GMM4050	●	5	12.5	6	50	
GMM4050L115	●	5	15	6	50	
GMM4055	●	5.5	13.75	6	50	
GMM4060	●	6	15	6	50	
GMM4065	●	6.5	16.25	8	60	
GMM4070	●	7	17.5	8	60	
GMM4075	●	7.5	18.75	8	60	
GMM4080	●	8	20	8	60	
GMM4085	●	8.5	21.25	10	75	
GMM4090	●	9	22.5	10	75	
GMM4095	●	9.5	23.75	10	75	
GMM4100	●	10	25	10	75	

※ 請接下頁。 ※ Continued on next page.

GMM 4000 4 刃鎢鋼端銑刀
4 Flutes Carbided End Mill


新規格上市
New Specification Arrival



產品型號 Model No	在庫 Stock	切削直徑 DC	切刃長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
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

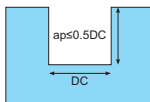
The Cutting Data For GMM 4000 Series

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

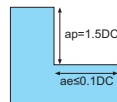
直徑 (mm) Shank		4	6	8	10	12	16	20	25
轉速 n (min)		4800	3100	2300	1900	1600	1200	1060	800
進給速度 (mm/min) Vf	開槽 Slotted	270	240	240	240	240	270	250	230
	側邊 Side	950	650	750	750	550	400	400	320

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

6刀鎢鋼端銑刀 6 Flutes Tungsten Carbide End Mill

螺旋角45°設計 Helix Angle Design 45°

高精度加工專用銑刀

Designed for High Precision Machining



GPM6000 series

適用加工特殊材質 Special Coating for

合金鋼 Alloy Steel

碳鋼 Carbon Steel

GPM6000R00 series

適用加工特殊材質 Special Coating for

合金鋼 Alloy Steel

碳鋼 Carbon Steel

GMM6000 series

適用材質 Processing on

鋼 Steel

不鏽鋼 Stainless Steel

鑄鐵 Cast Iron



適用於側銑及插槽 Suitable for side milling and slotted

GMM系列採全新鎢鋼刀體結構設計，高穩定性可有效降低加工震動
提升刀具使用壽命，有效控制排屑效率穩定

GMM series is high-precision machining special tool, brand new carbide flute body design, high stability and with vibration reducible during processing effectively, tool life increased. It is effective to control of chip removal efficiency and stability.

GPM、GPR系列皆採全新P500鈦鈦塗層，高耐磨、高韌性材質

抗震性佳可有效降低加工震動，可加工高硬度HRC55°~60°

GPM and GPR series is new silicon-titanium coating with **high wear resistance and toughness**, excellent vibration resistance effectively reduces machining vibrations, capable of machining high hardness HRC 55° ~60°.

GMM 6000更多規格詳見第B47頁

GMM 6000 Type Reference Page-B47

GPM 6000更多規格詳見第B48頁

GPM 6000 Type Reference Page-B48

GPR 6000R00更多規格詳見第B112頁

GPR 6000R00 Type Reference Page-B112



GMM 6000 6刃高精度專用鎢鋼端銑刀

6 Flutes High Precision Machining 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	
GMM6100L130	●	10	30	10	75	
GMM6120	●	12	30	12	75	
GMM6160	●	16	48	16	100	
GMM6200	●	20	50	20	100	
GMM6250	●	25	62.5	25	100	

GMM 6000系列切削參數

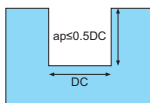
The Cutting Data For GMM 6000 Series

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

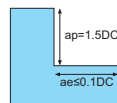
直徑 (mm) Shank	4	6	8	10	12	16	20	25
轉速 n (min)	4800	3100	2300	1900	1600	1200	1060	800
進給速度 (mm/min) Vf	開槽 Slotted	405	300	360	360	360	405	350
	側邊 Side	1450	1000	1150	1150	850	600	480

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

GPM 6000 6刃高精度專用抗震鎢鋼端銑刀
6 Flutes High Precision Seismic Performance Carbide 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	GPM6040		4	10	4	50	
NEW	GPM6045		4.5	11.25	6	50	
NEW	GPM6050		5	12.5	6	50	
NEW	GPM6060	●	6	15	6	50	
NEW	GPM6060L118		6	18	6	50	
NEW	GPM6080		8	20	8	60	
NEW	GPM6100	●	10	25	10	75	
NEW	GPM6100L130		10	30	10	75	
NEW	GPM6120		12	30	12	75	
NEW	GPM6160		16	48	16	100	
NEW	GPM6200		20	50	20	100	
NEW	GPM6250		25	62.5	25	100	

GPM 6000系列切削參數

The Cutting Data For GPM 6000 Series

被加工材質
Material

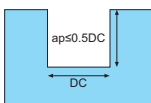
合金鋼
Alloy Steel

碳鋼
Carbon Steel

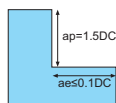
直徑 (mm) Shank	4	6	8	10	12	16	20	25
轉速 n (min)	4800	3100	2300	1900	1600	1200	1060	800
進給速度 Vf (mm/min)	開槽 Slotted	405	300	360	360	360	405	350
	側邊 Side	1450	1000	1150	1150	850	600	480

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

MU-EMM 4000 series

採用螺旋角35°設計

Helix Angle 35° Design

特殊U型圓溝刃設計

有利排屑順暢

適用於高速粗精銑削

排屑效果佳、穩定性優良

Special design for U type rounded land and it can process on high-speed roughing, finishing cutting.

Enhanced hardness of edge.

Enhanced chip removal effect and increase the stability.

MU圓溝系列鎢鋼端銑刀

Rounded Land Carbide End Mill

MU-EMM 4000
更多規格詳見第B50~51頁
Reference Page-B50~51



MU-GMM 4000
更多規格詳見第B52~56頁
Reference Page-B52~56

MU-GMM 4000 series

採用螺旋角45°設計

Helix Angle 45° Design

刃口強度提升，提升加工切削排屑流暢
增加穩定度，加工工件硬度HRC55度以下

採用國際公差標準h5

公差範圍控制在 μ 級精度

Can process on hardness up to 55HRC, 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, achieve high speed and feeding processing.

適用材質
Applicable for

合金鋼
Alloy Steel

不鏽鋼
Stainless Steel

鑄鐵
Cast Iron

MU-EMM 4000 圓溝 4 刃鎢鋼端銑刀
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
MU-EMM4030	●	3	7.5	4	50	
MU-EMM4030D6	●	3	7.5	6	50	
MU-EMM4030L109D6	●	3	9	6	50	
MU-EMM4040	●	4	10	4	50	
MU-EMM4040D6	●	4	10	6	50	
MU-EMM4040L112	●	4	12	4	50	
MU-EMM4040L112D6	●	4	12	6	50	
MU-EMM4050	●	5	12.5	6	50	
MU-EMM4050L115	●	5	15	6	50	
MU-EMM4060	●	6	15	6	50	
MU-EMM4060L118	●	6	18	6	50	
MU-EMM4060E1	●	6	15	6	75	
MU-EMM4070	●	7	17.5	8	60	
MU-EMM4070L121	●	7	21	8	60	
MU-EMM4080	●	8	20	8	60	
MU-EMM4080L124	●	8	24	8	60	
MU-EMM4090	●	9	22.5	10	75	
MU-EMM4090L127	●	9	27	10	75	
MU-EMM4100	●	10	25	10	75	
MU-EMM4100L130	●	10	30	10	75	
MU-EMM4110H	●	11	27.5	12	100	
MU-EMM4120	●	12	30	12	75	
MU-EMM4120L136	●	12	36	12	75	
MU-EMM4140	●	14	35	16	100	
MU-EMM4160	●	16	48	16	100	
MU-EMM4160L160M	●	16	60	16	150	
MU-EMM4200	●	20	50	20	100	

NEW

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

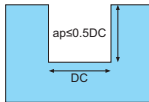
不鏽鋼
Stainless steel

鑄鐵
Cast Iron

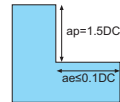
直徑 (mm) Shank		4	6	8	10	12	16	20
轉速 n (min)		4800	3100	2300	1900	1600	1200	1060
(mm/min) 進給速度 V _f	開槽 Slotted	270	240	240	240	240	270	250
	側邊 Side	950	650	750	750	550	400	400

切削深度 Cutting depth

開槽 Slotted



側邊 Side

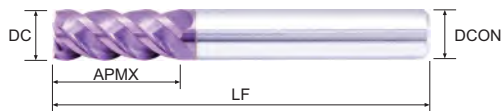


ap : 軸向切削深度 Axial depth of cutting

ae : 徑向切削深度 Radial depth of cutting

DC : 刃徑 Diameter of cutting

MU-GMM 4000 圓溝 4 刃鎢鋼端銼刀
4 Flutes Rounded Land Carbide End Mill

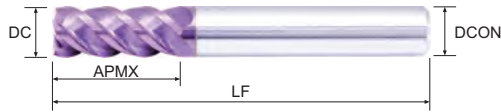


 **新規格上市**
New Specification Arrival



產品型號 Model No	在庫 Stock	切削直徑 DC	切刃長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
MU-GMM4010	●	1	2.5	4	50	
MU-GMM4015	●	1.5	3.75	4	50	
MU-GMM4015L112D6	●	1.5	12	6	50	
MU-GMM4020	●	2	5	4	50	
MU-GMM4020L112D6	●	2	12	6	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	
MU-GMM4035	●	3.5	8.75	4	50	
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-GMM4040E1	●	4	10	4	75	
MU-GMM4041L1123	●	4.1	12.3	6	50	
MU-GMM4042L1126	●	4.2	12.6	6	50	
MU-GMM4043L1129	●	4.3	12.9	6	50	
MU-GMM4044L1132	●	4.4	13.2	6	50	
MU-GMM4045L1135	●	4.5	13.5	6	50	
MU-GMM4046L1138	●	4.6	13.8	6	50	
MU-GMM4047L1141	●	4.7	14.1	6	50	
MU-GMM4048L1144	●	4.8	14.4	6	50	
MU-GMM4049L1147	●	4.9	14.7	6	50	

※ 請接下頁。 ※ Continued on next page.

MU-GMM 4000 圓溝 4 刃鎢鋼端銼刀
4 Flutes Rounded Land Carbide End Mill


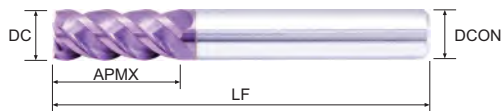
新規格上市
New Specification Arrival



產品型號 Model No	在庫 Stock	切削直徑 DC	切刃長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
MU-GMM4050	●	5	12.5	6	50	
MU-GMM4050L115	●	5	15	6	50	
MU-GMM4050E1	●	5	12.5	6	75	
MU-GMM4050H	●	5	12.5	6	100	
MU-GMM4050L120H	●	5	20	6	100	
MU-GMM4051L1153	●	5.1	15.3	6	50	
MU-GMM4052L1156	●	5.2	15.6	6	50	
MU-GMM4053L1159	●	5.3	15.9	6	50	
MU-GMM4054L1162	●	5.4	16.2	6	50	
MU-GMM4055	●	5.5	13.75	6	50	
MU-GMM4055L1165	●	5.5	16.5	6	50	
MU-GMM4056L1168	●	5.6	16.8	6	50	
MU-GMM4057L1171	●	5.7	17.1	6	50	
MU-GMM4058L1174	●	5.8	17.4	6	50	
MU-GMM4059L1177	●	5.9	17.7	6	50	
MU-GMM4060	●	6	15	6	50	
MU-GMM4060L118	●	6	18	6	50	
MU-GMM4060D	●	6	15	6	60	
MU-GMM4060E1	●	6	15	6	75	
MU-GMM4060H	●	6	15	6	100	
MU-GMM4061L1183	●	6.1	18.3	8	60	
MU-GMM4062L1186	●	6.2	18.6	8	60	
MU-GMM4063L1189	●	6.3	18.9	8	60	
MU-GMM4064L1191	●	6.4	19.1	8	60	
MU-GMM4064L1192	●	6.4	19.2	8	60	
MU-GMM4065	●	6.5	16.25	8	60	
MU-GMM4065L1195	●	6.5	19.5	8	60	
MU-GMM4066L1198	●	6.6	19.8	8	60	
MU-GMM4067L1201	●	6.7	20.1	8	60	
MU-GMM4068L1204	●	6.8	20.4	8	60	
MU-GMM4069L1207	●	6.9	20.7	8	60	
MU-GMM4070	●	7	17.5	8	60	
MU-GMM4070L121	●	7	21.0	8	60	

※ 請接下頁。 ※ Continued on next page.

MU-GMM 4000 圓溝 4 刃鎢鋼端銼刀
4 Flutes Rounded Land Carbide End Mill

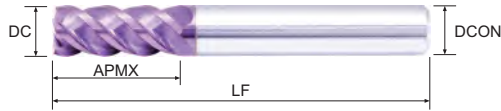


 **新規格上市**
New Specification Arrival



產品型號 Model No	在庫 Stock	切削直徑 DC	切削長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
MU-GMM4071L1213	●	7.1	21.3	8	60	
MU-GMM4072L1216	●	7.2	21.6	8	60	
MU-GMM4073L1219	●	7.3	21.9	8	60	
MU-GMM4074L1222	●	7.4	22.2	8	60	
MU-GMM4075	●	7.5	18.75	8	60	
MU-GMM4075L1225	●	7.5	22.5	8	60	
MU-GMM4076L1228	●	7.6	22.8	8	60	
MU-GMM4077L1231	●	7.7	23.1	8	60	
MU-GMM4078L1234	●	7.8	23.4	8	60	
MU-GMM4079L1237	●	7.9	23.7	8	60	
MU-GMM4080	●	8	20	8	60	
MU-GMM4080L124	●	8	24	8	60	
MU-GMM4080E1	●	8	20	8	75	
MU-GMM4080H	●	8	20	8	100	
MU-GMM4080M	●	8	20	8	150	
MU-GMM4081L1243	●	8.1	24.3	10	75	
MU-GMM4082L1246	●	8.2	24.6	10	75	
MU-GMM4083L1249	●	8.3	24.9	10	75	
MU-GMM4084L1252	●	8.4	25.2	10	75	
MU-GMM4085L1255	●	8.5	25.5	10	75	
MU-GMM4086L1258	●	8.6	25.8	10	75	
MU-GMM4087L1261	●	8.7	26.1	10	75	
MU-GMM4088L1264	●	8.8	26.4	10	75	
MU-GMM4089L1267	●	8.9	26.7	10	75	
MU-GMM4090	●	9	22.5	10	75	
MU-GMM4090L127	●	9	27	10	75	
MU-GMM4091L1273	●	9.1	27.3	10	75	
MU-GMM4092L1276	●	9.2	27.6	10	75	
MU-GMM4093L1279	●	9.3	27.9	10	75	
MU-GMM4094L130	●	9.4	30	10	75	
MU-GMM4094L1282	●	9.4	28.2	10	75	
MU-GMM4095L1285	●	9.5	28.5	10	75	
MU-GMM4096L1288	●	9.6	28.8	10	75	

※ 請接下頁。 ※ Continued on next page.

MU-GMM 4000 圓溝 4 刃鎢鋼端銼刀
4 Flutes Rounded Land Carbide End Mill


新規格上市
New Specification Arrival



產品型號 Model No	在庫 Stock	切削直徑 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-GMM4100L130	●	10	30	10	75	
MU-GMM4100H	●	10	25	10	100	
MU-GMM4100L130H	●	10	30	10	100	
MU-GMM4100M	●	10	25	10	150	
MU-GMM4105	●	10.5	26.25	12	75	
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-GMM4120M	●	12	30	12	150	
MU-GMM4120L155M	●	12	55	12	150	
MU-GMM4140	●	14	35	16	100	
MU-GMM4142		14.2	35.5	16	100	
MU-GMM4160	●	16	48	16	100	
MU-GMM4160M	●	16	48	16	150	
MU-GMM4180	●	18	45	20	100	
MU-GMM4200	●	20	50	20	100	

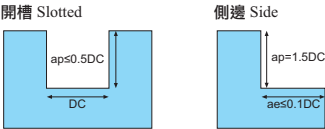
NEW

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
(mm/min) 進給速度 Vf	開槽 Slotted	270	240	240	240	240	270	250
	側邊 Side	950	650	750	750	550	400	400

切削深度 Cutting depth



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-GPM4000 4 刀圓溝鎢鋼端銑刀

全新P500矽鈦塗層，高耐磨、高韌性材質

加工高硬度可達HRC55°~60°

New P500 silicon-titanium coating with high wear resistance and toughness, capable of machining high hardness HRC 55°~60°

擁有優良加工表面，有效控制排屑效率穩定，抗震性佳，可有效降低加工震動、提升刀具使用壽命，減少刀具震動的崩損。

Provides excellent machining surfaces and stable chip evacuation efficiency, excellent vibration resistance effectively reduces machining vibrations, extends tool life and reduces chipping from tool vibrations.

專用特殊塗層

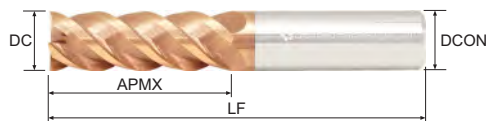
Special Coating for

合金鋼 Alloy Steel

碳鋼 Carbon Steel

MU-GPM 4000 圓溝 4 刀鎢鋼端銑刀

4 Flutes Rounded Land Carbide End Mill



新品上市
New Arrival



MG LHM 0.5 CO 12% HRC 56.0 P 500 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
MU-GPM4020	●	2	5	4	50	
MU-GPM4040		4	10	4	50	
MU-GPM4050		5	12.5	6	50	
MU-GPM4060		6	15	6	50	
MU-GPM4060L118	●	6	18	6	50	
MU-GPM4080		8	20	8	60	
MU-GPM4090		9	22.5	10	75	
MU-GPM4100	●	10	25	10	75	
MU-GPM4100L130	●	10	30	10	75	
MU-GPM4120		12	30	12	75	
MU-GPM4120L136	●	12	36	12	75	
MU-GPM4160		16	48	16	100	

MU-GPM 4000系列切削參數

The Cutting Data For MU-GPM 4000 Series

被加工材質
Material

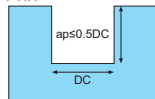
合金鋼
Alloy Steel

碳鋼
Carbon Steel

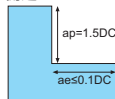
直徑 (mm) Shank	4	6	8	10	12	16
轉速 n (min)	4800	3100	2300	1900	1600	1200
進給速度 (mm/min) Vf	開槽 Slotted	270	240	240	240	270
	側邊 Side	950	650	750	750	400

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

圓溝 2 離隙系列

Rounded Land Double Edge Carbide End Mill

鎢鋼端銑刀

MU2-GPM

刃口採雙離隙研磨

減少因阻抗而產生的震動

Cutter edge adopts double relief grinding to reduce the resistance caused by vibration.

可有效降低或避免刀具進行側銑時，所產生之切削震動紋路、提升切削能力，獲得高質量的加工表面、減少工件產生端口毛刺，提高刀具加工壽命。

Can effectively reduce or avoid the cutting vibration pattern when the tool is side milling, and improve the cutting ability, which is beneficial to obtain a high-quality machining surface then reduce port burrs on the workpiece and increase tool life.

螺旋角採用45°設計 加大容屑槽設計

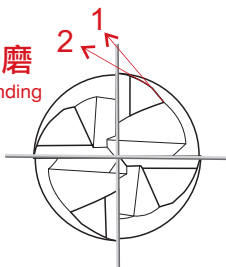
提升排屑效率 可切削硬度達HRC55~60°

Designed with a 45° helix angle and enlarged chip gullet for optimal chip evacuation.

Capable of cutting materials with hardness up to HRC 55~60°

雙離隙研磨

Double Relief Grinding



專用特殊塗層

Special Coating for

合金鋼 Alloy Steel

碳鋼 Carbon Steel

採用全新矽鈦塗層

可有效抗震獲得高質量的加工表面。

Special silicon-titanium coating can effectively resist vibration to obtain high-quality machining surfaces in plunge millin.

更多規格詳見第B59~60頁

Reference Page-B59~60



特殊鍍鈦，適用於難切削材、航鈦零部件加工，提升耐高溫、耐磨耗度，表面不易沾黏金屬。

Engineered with a special titanium coating, this carbide end mill is ideal for machining difficult to cut materials and titanium alloy aerospace components.

MU2-GYM

更多規格詳見第B61頁

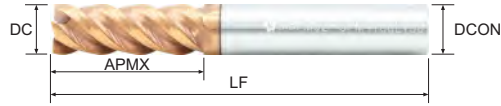
Reference Page-B61

專用特殊塗層

Special Coating for

鈦合金 Titanium Alloy

鎳合金 Nickel Alloy

MU2-GPM 4000 4 刃圓溝雙離銼端銑刀
4 Flutes Rounded Land Double Edge Carbide End Mill


新規格上市
New Specification Arrival



產品型號 Model No	在庫 Stock	切削直徑 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-GPM4040L112D6	●	4	12	6	50	
MU2-GPM4050	●	5	12.5	6	50	
MU2-GPM4050L115	●	5	15	6	50	
MU2-GPM4060	●	6	15	6	50	
MU2-GPM4060L118	●	6	18	6	50	
MU2-GPM4070	●	7	17.5	8	60	
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-GPM4105	●	10.5	26.25	12	75	
MU2-GPM4110	●	11	27.5	12	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

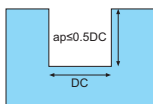
合金鋼
Alloy Steel

碳鋼
Carbon Steel

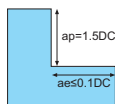
直徑 (mm) Shank		4	6	8	10	12	16	20
轉速 n (min)		6000	4000	2900	2400	1900	1500	1200
進給速度 (mm/min) V _f	開槽 Slotted	420	420	420	420	420	420	420
	側邊 Side	1100	800	950	750	500	480	400

切削深度 Cutting depth

開槽 Slotted



側邊 Side

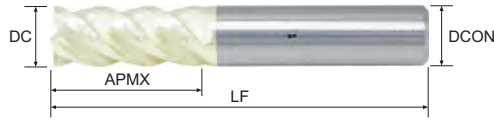


ap : 軸向切削深度 Axial depth of cutting

ae : 徑向切削深度 Radial depth of cutting

DC : 刃徑 Diameter of cutting

MU2-GYM 4000 4 刃圓溝 2 離除離削材專用鎢鋼端銑刀 4 Flutes Rounded Land for Hard Materials Carbide 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 MU2-GYM4040	●	4	10	4	50	
NEW MU2-GYM4060	●	6	15	6	50	
NEW MU2-GYM4080	●	8	20	8	60	
NEW MU2-GYM4100	●	10	25	10	75	
NEW MU2-GYM4100L 130	●	10	30	10	75	
NEW MU2-GYM4120	●	12	30	12	75	
NEW MU2-GYM4120L 136	●	12	36	12	75	
NEW MU2-GYM4160	●	16	48	16	100	

MU2-GYM 4000系列切削參數

The Cutting Data For MU2-GYM 4000 Series

被加工材質 鈦合金
Material Titanium

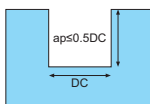
直徑 (mm) Shank		4	6	8	10	12	16
轉速 n (min)		4000	2600	2000	1600	1300	1000
進給速度 (mm/min) Vf	開槽 Slotted	320	210	240	190	210	160
	側邊 Side	800	520	400	380	310	240

被加工材質 鎳合金
Material Nickel Alloy

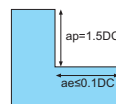
直徑 (mm) Shank		4	6	8	10	12	16
轉速 n (min)		2000	1300	1000	800	700	500
(mm/min) 進給速度 Vf	開槽 Slotted	160	105	120	95	100	80
	側邊 Side	400	260	200	190	155	120

切削深度 Cutting depth

開槽 Slotted



側邊 Side



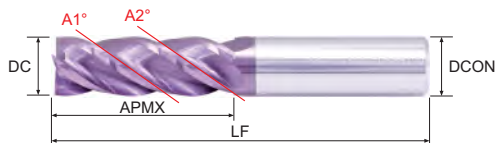
ap: 軸向切削深度 Axial depth of cutting
ae: 徑向切削深度 Radial depth of cutting
DC: 刃徑 Diameter of cutting

MUH-FMM 4000 圓溝不等分割不等螺旋 4 刃鎢鋼端銑刀

Round land Unequal Spiral Unequal Division 4 Flutes Carbide End Mill



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



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



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-FMM4020L106		2	6	4	50	
MUH-FMM4030L109		3	9	4	50	
MUH-FMM4040L112		4	12	4	50	
MUH-FMM4050L115		5	15	6	50	
MUH-FMM4060		6	15	6	50	
MUH-FMM4060L118	●	6	18	6	50	
MUH-FMM4080		8	20	8	60	
MUH-FMM4080L124		8	24	8	60	
MUH-FMM4100		10	25	10	75	
MUH-FMM4100L130		10	30	10	75	
MUH-FMM4120		12	30	12	75	
MUH-FMM4120L136	●	12	36	12	75	
MUH-FMM4160	●	16	48	16	100	
MUH-FMM4200		20	50	20	100	

MUH-FMM 4000系列切削參數

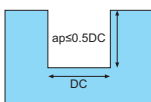
The Cutting Data For MUH-FMM 4000 Series

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

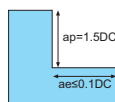
直徑 (mm) Shank	4	6	8	10	12	16	20
轉速 n (min)	6000	4000	2900	2400	1900	1500	1200
進給速度 Vf (mm/min)	開槽 Slotted	420	420	420	420	420	420
	側邊 Side	1100	800	950	750	500	400

切削深度 Cutting depth

開槽 Slotted



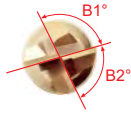
側邊 Side



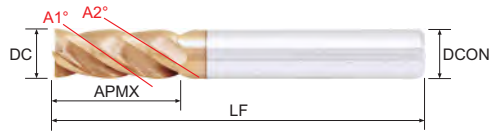
ap: 軸向切削深度 Axial depth of cutting
ae: 徑向切削深度 Radial depth of cutting
DC: 刃徑 Diameter of cutting

MUH-FPM 4000 圓溝不等分割不等螺旋圓溝 4 刃鎢鋼端銑刀

Round Land Unequal Spiral & Unequal Division 4 Flutes Carbide End Mill



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



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

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-FPM4020L106	●	2	6	4	50	
MUH-FPM4025	●	2.5	6.25	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-FPM4120L145H	●	12	45	12	100	
MUH-FPM4160	●	16	48	16	100	
MUH-FPM4160L140	●	16	40	16	100	
MUH-FPM4200	●	20	50	20	100	

MUH-FPM 4000系列切削參數

The Cutting Data For MUH-FPM 4000 Series

被加工材質
Material

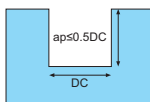
合金鋼
Alloy Steel

碳鋼
Carbon Steel

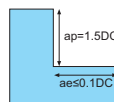
直徑 (mm) Shank	4	6	8	10	12	16	20
轉速 n (min)	6000	4000	2900	2400	1900	1500	1200
進給速度 Vf (mm/min)	開槽 Slotted	420	420	420	420	420	420
	側邊 Side	1100	800	950	750	500	400

切削深度 Cutting depth

開槽 Slotted



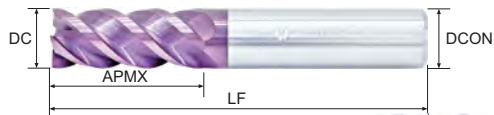
側邊 Side



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

MUH-GMM 4000 圓溝不等分割 4 刃鎢鋼端銑刀 4 Flutes Unequal Division Round Land Carbide End Mill

MG       



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-GMM4030	●	3	7.5	4	50	
MUH-GMM4040	●	4	10	4	50	
MUH-GMM4040L112	●	4	12	4	50	
MUH-GMM4050	●	5	12.5	6	50	
MUH-GMM4060	●	6	15	6	50	
MUH-GMM4070	●	7	17.5	8	60	
MUH-GMM4080	●	8	20	8	60	
MUH-GMM4080L124	●	8	24	8	60	
MUH-GMM4100	●	10	25	10	75	
MUH-GMM4100L130	●	10	30	10	75	
MUH-GMM4100H	●	10	25	10	100	
MUH-GMM4120	●	12	30	12	75	
MUH-GMM4120L136	●	12	36	12	75	
MUH-GMM4160	●	16	48	16	100	
MUH-GMM4200	●	20	50	20	100	

MUH-GMM 4000系列切削參數

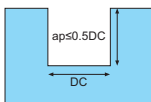
The Cutting Data For MUH-GMM 4000 Series

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

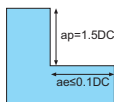
直徑 (mm) Shank	4	6	8	10	12	16	20
轉速 n (min)	6000	4000	2900	2400	1900	1500	1200
進給速度 Vf (mm/min)	開槽 Slotted	420	420	420	420	420	420
	側邊 Side	1100	800	950	750	500	400

切削深度 Cutting depth

開槽 Slotted



側邊 Side



ap：軸向切削深度 Axial depth of cutting

ae：徑向切削深度 Radial depth of cutting

DC：刃徑 Diameter of cutting

採用螺旋角42°/45°設計
Helix angle 42°/45° design,

A1°

A2°

不等螺旋
Unequal Helix Angle
 $A1^\circ \neq A2^\circ$

LUH-IMM 4000
車銑複合機用鎢鋼端銑刀
Turning and Milling Center
Carbide End Mill

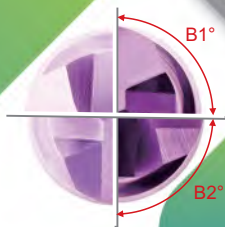
圓溝不等螺旋 不等角分割鎢鋼銑刀 精加工粗銑專用

Round Land Unequal Division
Unequal Helix Carbide End Mill
Finishing Tungsten
Carbide Roughing End Mill

MUH-IMM 4000
特殊溝槽設計利於插銑加工排屑
Special slot design is beneficial to chip
removal in plunge milling.

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
切削震動紋路
有利於獲得高質量的加工表面
以及提高刀具壽命

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



Changing the feed per edge so that the
milling waveform for each edge will be no
longer the same. It can effectively reduce
or avoid the cutting vibration pattern when
the tool is side milling.
Conducive for high quality machining
surfaces and tool life improvement.

MUH-IMM 4000-DIN
側固平面降低振動DIN歐規設計
適用於精加工和粗加工
Suitable for finishing and roughing.

MUH-IMM 4000更多規格詳見第B67~B68頁
MUH-IMM 4000 Type Reference Page-B67~B68

MUH-IMM 4000-DIN更多規格詳見第B69頁
MUH-IMM 4000-DIN Type Reference Page-B69

LUH-IMM 4000更多規格詳見第B77頁
LUH-IMM 4000 Type Reference Page-B77

全新IGM、IEM高耐磨 高韌性材質 可加工高硬度HRC50°~60°

Brand new IGM - IEM series with high abrasion resistance
high ductility material machinable high hardness HRC50°~60°.

MUH-IGM 4000
更多規格詳見第B73頁
Reference Page-B73

MUH-IEM 4000
更多規格詳見第B74頁
Reference Page-B74

圓溝不等螺旋 不等角分割鎢鋼銑刀 高硬度切削專用

Round Land Unequal Division
Unequal Helix Carbide End Mill
Designed for Cutting
High Hardness Materials

改變每刃進給量
使每刃的銑削波形不再相同
可有效抗震獲得高質量的加工表面
加大容屑槽於銑削加工時
排屑更優良

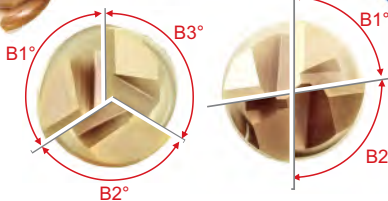
Changing the feed per edge makes the
milling waveform for each edge is no
longer the same.
It can effectively resist vibration to obtain
high-quality machining surfaces in plunge
milling.
Enlarged chip pocket for excellent chip
removal during plunge milling.

IGM.IEM

MUH-IPM 4000
更多規格詳見第B71~B72頁
Reference Page-B71~B72

MUH-IPM 3000L1
更多規格詳見第B70頁
Reference Page-B70

採用螺旋角42°/45°設計
Helix angle 42°/45° design.



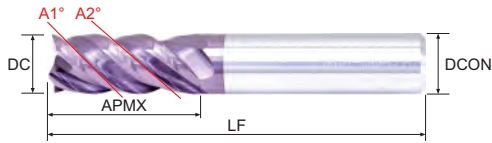
不等分割 Unequal Division
 $B1^\circ \neq B2^\circ \neq B3^\circ$

MUH-IMM 4000

圓溝不等分螺絲 4 刃鎢鋼端銑刀
Rounded Unequal Spiral & Unequal Division 4 Flutes Carbide End Mill



不等分螺絲 $B1^\circ \neq B2^\circ$
Unequal Division



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

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-IMM4020	●	2	5	4	50	
MUH-IMM4030L109	●	3	9	4	50	
MUH-IMM4035L109	●	3.5	9	4	50	
MUH-IMM4040	●	4	10	4	50	
MUH-IMM4040L112	●	4	12	4	50	
MUH-IMM4040L112D6	●	4	12	6	50	
MUH-IMM4050	●	5	12.5	6	50	
MUH-IMM4050L112	●	5	12	6	50	
MUH-IMM4050L115	●	5	15	6	50	
MUH-IMM4055L113	●	5.5	13	6	50	
MUH-IMM4060	●	6	15	6	50	
MUH-IMM4060L118	●	6	18	6	50	
MUH-IMM4070	●	7	17.5	8	60	
MUH-IMM4070L121	●	7	21	8	60	
MUH-IMM4070L130E1	●	7	30	8	75	
MUH-IMM4073L1219	●	7.3	21.9	8	60	
MUH-IMM4075	●	7.5	18.75	8	60	
MUH-IMM4080	●	8	20	8	60	
MUH-IMM4080L124	●	8	24	8	60	
MUH-IMM4085L1255	●	8.5	25.5	10	75	
MUH-IMM4090	●	9	22.5	10	75	
MUH-IMM4095	●	9.5	23.75	10	75	
MUH-IMM4100	●	10	25	10	75	
MUH-IMM4100L130	●	10	30	10	75	
MUH-IMM4120	●	12	30	12	75	
MUH-IMM4120L136	●	12	36	12	75	
MUH-IMM4120L138	●	12	38	12	75	
MUH-IMM4120L140	●	12	40	12	75	
MUH-IMM4120H	●	12	30	12	100	
MUH-IMM4120L142H	●	12	42	12	100	
MUH-IMM4120L145H	●	12	45	12	100	
MUH-IMM4120L153H	●	12	53	12	100	
MUH-IMM4120L155H	●	12	55	12	100	

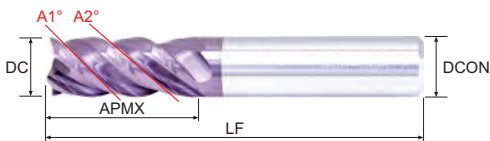
※ 請接下一頁。 ※ Continued on next page.

MUH-IMM 4000 圓溝不等分割不等螺旋 4 刃鎢鋼鉋刀

Rounded Unequal Spiral & Unequal Division 4 Flutes Carbide End Mill



不等分割 B1°≠B2°
Unequal Division



不等螺旋 A1°≠A2°
Unequal Spiral

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-IMM4140	●	14	35	16	100	
MUH-IMM4150	●	15	37.5	16	100	
MUH-IMM4160L122E1	●	16	22	16	75	
MUH-IMM4160	●	16	48	16	100	
MUH-IMM4160L140	●	16	40	16	100	
MUH-IMM4160L155	●	16	55	16	100	
MUH-IMM4180	●	18	45	20	100	
MUH-IMM4190	●	19	47.5	20	100	
MUH-IMM4200	●	20	50	20	100	
MUH-IMM4200L160M	●	20	60	20	150	
MUH-IMM4200L170M	●	20	70	20	150	
MUH-IMM4200L175M	●	20	75	20	150	
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

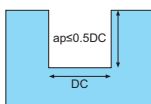
不銹鋼
Stainless steel

鑄鐵
Cast Iron

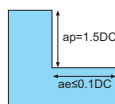
直徑 (mm) Shank	4	6	8	10	12	16	20
轉速 n (min)	6000	4000	2900	2400	1900	1500	1200
進給速度 Vf (mm/min)	開槽 Slotted	420	420	420	420	420	420
	側邊 Side	1100	800	950	750	500	400

切削深度 Cutting depth

開槽 Slotted



側邊 Side



ap : 軸向切削深度 Axial depth of cutting

ae : 徑向切削深度 Radial depth of cutting

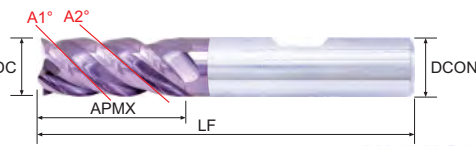
DC : 刃徑 Diameter of cutting

MUH-IMM 4000-DIN

Rounded Unequal Spiral & Unequal Division 4 Flutes Carbide End Mill-DIN



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



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



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	
MUH-IMM4060-DIN	●	6	15	6	50	
MUH-IMM4080-DIN	●	8	20	8	60	
MUH-IMM4100-DIN	●	10	25	10	75	
MUH-IMM4120-DIN	●	12	30	12	75	
MUH-IMM4160-DIN		16	48	16	100	
MUH-IMM4200-DIN	●	20	50	20	100	

MUH-IMM 4000-DIN系列切削參數

The Cutting Data For MUH-IMM 4000-DIN Series

被加工材質
Material

鋼
Steel

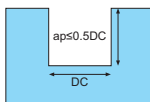
不鏽鋼
Stainless steel

鑄鐵
Cast Iron

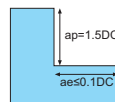
直徑 (mm) Shank	4	6	8	10	12	16	20
轉速 n (min)	6000	4000	2900	2400	1900	1500	1200
進給速度 (mm/min) Vf	開槽 Slotted	420	420	420	420	420	420
	側邊 Side	1100	800	950	750	500	400

切削深度 Cutting depth

開槽 Slotted



側邊 Side



ap : 軸向切削深度 Axial depth of cutting

ae : 徑向切削深度 Radial depth of cutting

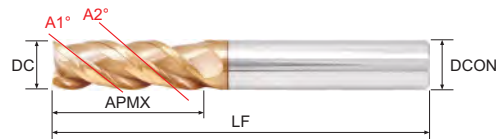
DC : 刃徑 Diameter of cutting

MUH-IPM 3000L1 圓溝不等分割不等螺旋 3 刃抗震鎢鋼端銑刀

Round Land Unequal Spiral & Unequal Division Seismic Performance 3 Flutes Carbide End Mill



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



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



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

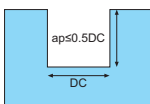
The Cutting Data For MUH-IPM 3000L1 Series

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

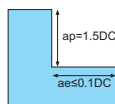
直徑 (mm) Shank		4	6	8	10	12	16
轉速 n (min)		6000	4000	2900	2400	1900	1500
進給速度 (mm/min) Vf	開槽 Slotted	360	360	300	300	280	230
	側邊 Side	540	480	480	480	400	400

切削深度 Cutting depth

開槽 Slotted



側邊 Side



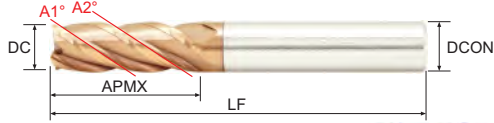
ap : 軸向切削深度 Axial depth of cutting

ae : 徑向切削深度 Radial depth of cutting

DC : 刃徑 Diameter of cutting

MUH-IPM 4000 圓端不等分割不等螺旋 4 刃抗震鎢鋼端銑刀

Round Land Unequal Spiral & Unequal Division Seismic Performance 4 Flutes Carbide End Mill


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

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


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

MUH-IPM 4000系列切削參數

The Cutting Data For MUH-IPM 4000 Series

被加工材質
Material

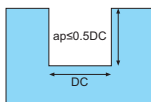
合金鋼
Alloy Steel

碳鋼
Carbon Steel

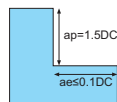
直徑 (mm) Shank		4	6	8	10	12	16	20
轉速 n (min)		6000	4000	2900	2400	1900	1500	1200
進給速度 (mm/min) Vf	開槽 Slotted	480	350	350	300	300	300	300
	側邊 Side	720	640	580	580	580	480	400

切削深度 Cutting depth

開槽 Slotted



側邊 Side



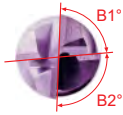
ap : 軸向切削深度 Axial depth of cutting

ae : 徑向切削深度 Radial depth of cutting

DC : 刃徑 Diameter of cutting

MUH-IGM 4000

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



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



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

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-IGM4040	●	4	10	4	50	
MUH-IGM4040L112	●	4	12	4	50	
MUH-IGM4050	●	5	12.5	6	50	
MUH-IGM4060	●	6	15	6	50	
MUH-IGM4060L118	●	6	18	6	50	
MUH-IGM4080	●	8	20	8	60	
MUH-IGM4080L124	●	8	24	8	60	
MUH-IGM4100	●	10	25	10	75	
MUH-IGM4100L130	●	10	30	10	75	
MUH-IGM4120	●	12	30	12	75	
MUH-IGM4120L136	●	12	36	12	75	
MUH-IGM4160	●	16	48	16	100	
MUH-IGM4200	●	20	50	20	100	

NEW
NEW

MUH-IGM 4000系列切削參數

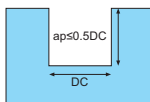
The Cutting Data For MUH-IGM 4000 Series

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

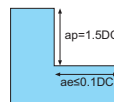
直徑 (mm) Shank	4	6	8	10	12	16	20
轉速 n (min)	6000	4000	2900	2400	1900	1500	1200
進給速度 Vf (mm/min)	開槽 Slotted	420	420	420	420	420	420
	側邊 Side	1100	800	950	750	500	400

切削深度 Cutting depth

開槽 Slotted



側邊 Side



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

MUH-ITEM 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



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



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

新規格上市
New Specification Arrival



產品型號 Model No	在庫 Stock	切削直徑 DC	切削長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
NEW MUH-ITEM4035L109D6	●	3.5	9	6	50	
MUH-ITEM4040	●	4	10	4	50	
MUH-ITEM4040L112	●	4	12	4	50	
MUH-ITEM4040L112D6	●	4	12	6	50	
MUH-ITEM4050L115	●	5	15	6	50	
MUH-ITEM4060	●	6	15	6	50	
MUH-ITEM4060L118	●	6	18	6	50	
MUH-ITEM4070L121	●	7	21	8	60	
MUH-ITEM4080	●	8	20	8	60	
MUH-ITEM4080L124	●	8	24	8	60	
MUH-ITEM4100	●	10	25	10	75	
MUH-ITEM4100L130	●	10	30	10	75	
MUH-ITEM4120	●	12	30	12	75	
MUH-ITEM4120L136	●	12	36	12	75	
NEW MUH-ITEM4160	●	16	48	16	100	
NEW MUH-ITEM4200	●	20	50	20	100	

MUH-ITEM 4000系列切削參數

The Cutting Data For MUH-ITEM 4000 Series

被加工材質
Material

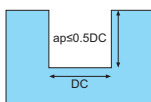
合金鋼
Alloy Steel

碳鋼
Carbon Steel

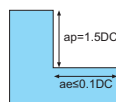
直徑 (mm) Shank	4	6	8	10	12	16	20
轉速 n (min)	6000	4000	2900	2400	1900	1500	1200
進給速度 VF (mm/min)	開槽 Slotted	420	420	420	420	420	420
	側邊 Side	1100	800	950	750	500	400

切削深度 Cutting depth

開槽 Slotted



側邊 Side



ap: 軸向切削深度 Axial depth of cutting

ae: 徑向切削深度 Radial depth of cutting

DC: 刃徑 Diameter of cutting

圓溝不等分割不等螺旋 4刃鎢鋼端銑刀 **難削材** For Hard Materials

Rounded Unequal Spiral & Unequal Division 4 Flutes Carbide End Mill

特殊鍍鈦，適用於難切削材、航太零部件提升耐高溫、耐磨耗度，表面不易沾黏金屬
可切削硬度達HRC55°~60°

Special titanium coating is suitable for machining of hard materials or aerospace components.
Capable of cutting hardness HRC 55°~60°



不等角分割利於高速進給加工抗震性 不等螺旋角利於高速加工抗崩裂性

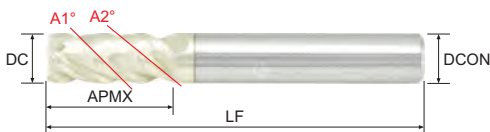
Unequal angle division is beneficial for high-speed feed machining and vibration resistance, unequal helix angle for enhanced resistance to chipping during high-speed machining.

■ MUH-IYM 4000 圓溝不等分割不等螺旋難削材 4 刃鎢鋼端銑刀

Rounded Unequal Spiral & Unequal Division for Hard Materials 4 Flutes Carbide End Mill



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



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



	產品型號 Model No	在庫 Stock	切削直徑	切削長度	柄部直徑	標準全長	價格 Price
			DC	APMX	DCON	LF	
NEW	MUH-IYM4040		4	10	4	50	
NEW	MUH-IYM4060		6	15	6	50	
NEW	MUH-IYM4080	●	8	20	8	60	
NEW	MUH-IYM4080L124	●	8	24	8	60	
NEW	MUH-IYM4100		10	25	10	75	
NEW	MUH-IYM4100L130	●	10	30	10	75	
NEW	MUH-IYM4120		12	30	12	75	
NEW	MUH-IYM4120L136	●	12	36	12	75	
NEW	MUH-IYM4160		16	48	16	100	

MUH-IYM 4000系列切削參數

The Cutting Data For MUH-IYM 4000 Series

被加工材質 Material 鈦合金 Titanium

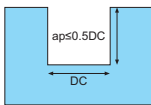
直徑 (mm) Shank		4	6	8	10	12	16
轉速 n (min)		4000	2600	2000	1600	1300	1000
(mm/min) 進給速度 Vf	開槽 Slotted	320	210	240	190	210	160
	側邊 Side	800	520	400	380	310	240

被加工材質 Material 鎳合金 Nickel Alloy

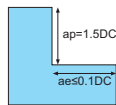
直徑 (mm) Shank		4	6	8	10	12	16
轉速 n (min)		2000	1300	1000	800	700	500
(mm/min) 進給速度 Vf	開槽 Slotted	160	105	120	95	100	80
	側邊 Side	400	260	200	190	155	120

切削深度 Cutting depth

開槽 Slotted



側邊 Side

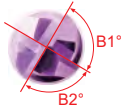


ap : 軸向切削深度 Axial depth of cutting

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



不等分割 $B1° \neq B2°$
Unequal Division



不等螺旋 $A1° \neq A2°$
Unequal Spiral



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

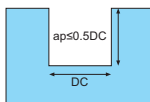
The Cutting Data For LUH-IMM 4000 Series

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

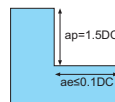
直徑 (mm) Shank		6	8	10
轉速 n (min)		4000	2900	2400
進給速度 Vf (mm/min)	開槽 Slotted	420	420	420
	側邊 Side	800	950	750

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

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

$A1^\circ$

$A2^\circ$

MMH-LMM
series

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

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



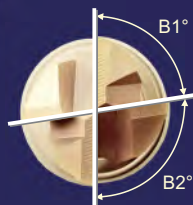
不等螺旋
Unequal Spiral
 $A1^\circ \neq A2^\circ$

$A1^\circ$

$A2^\circ$

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

MMH-LPM
series



不等角分割利於高速進給加工抗震性 不等螺旋角利於高速加工抗崩裂性

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

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

適用材質 Processing on

鋼
Steel

不鏽鋼
Stainless Steel

鑄鐵
Cast Iron

螺旋角採用 $39^\circ/41^\circ$ 設計

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

Helix angle $39^\circ/41^\circ$ design

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

平溝不等分割不等螺旋

Flat Land Unequal Spiral Unequal Division

4 刃鎢鋼端銑刀

4 Flutes Carbide End Mill

特殊 U 型溝槽設計，利於插銑加工時
排屑優良，減少工件產生端口毛刺
Special U-shaped groove design
Makes the commissioner with excellent chip removal effect during the plunge milling process
reduce workpiece generation port burrs.

專用特殊塗層
Special Coating For

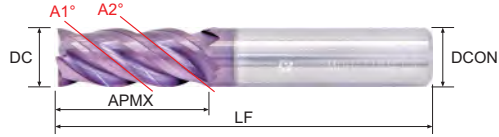
合金鋼
Alloy Steel

碳鋼
Carbon Steel

MMH-LMM 4000 平溝不等分不等螺旋 4 刃鎢鋼端銑刀
Flat Land Unequal Spiral & Unequal Division 4 Flutes Carbide End Mill



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



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

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
MMH-LMM4040	●	4	10	4	50	
MMH-LMM4060	●	6	15	6	50	
MMH-LMM4080	●	8	20	8	60	
MMH-LMM4100	●	10	25	10	75	
NEW MMH-LMM4100L140H	●	10	40	10	100	
MMH-LMM4120	●	12	30	12	75	
NEW MMH-LMM4120L136	●	12	36	12	75	
MMH-LMM4160L155	●	16	55	16	100	
MMH-LMM4160M	●	16	48	16	150	

MMH-LMM 4000系列切削參數

The Cutting Data For MMH-LMM 4000 Series

被加工材質
Material

鋼
Steel

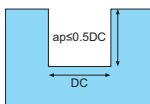
不鏽鋼
Stainless steel

鑄鐵
Cast iron

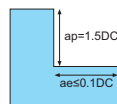
直徑 (mm) Shank	4	6	8	10	12	16
轉速 n (min)	6000	4000	2900	2400	1900	1500
進給速度 Vf (mm/min)	開槽 Slotted	420	420	420	420	420
	側邊 Side	1100	800	950	500	480

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

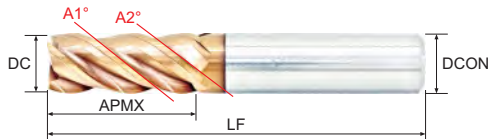
DC : 刃徑 Diameter of cutting

MMH-LPM 4000 平溝不等分割不等螺旋 4 刃鎢鋼端銑刀

Flat Land Unequal Spiral & Unequal Division 4 Flutes Carbide End Mill



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



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

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
MMH-LPM4040	●	4	10	4	50	
MMH-LPM4055L1165	●	5.5	16.5	6	50	
MMH-LPM4060	●	6	15	6	50	
MMH-LPM4080	●	8	20	8	60	
NEW MMH-LPM4080L124	●	8	24	8	60	
MMH-LPM4100	●	10	25	10	75	
MMH-LPM4120	●	12	30	12	75	
NEW MMH-LPM4120L136	●	12	36	12	75	
MMH-LPM4160	●	16	48	16	100	

MMH-LPM 4000系列切削參數

The Cutting Data For MMH-LPM 4000 Series

被加工材質
Material

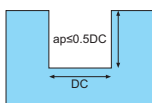
合金鋼
Alloy Steel

碳鋼
Carbon Steel

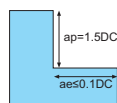
直徑 (mm) Shank	4	6	8	10	12	16
轉速 n (min)	6000	4000	2900	2400	1900	1500
(mm/min) 進給速度 Vf	開槽 Slotted	420	420	420	420	420
	側邊 Side	1100	800	950	500	480

切削深度 Cutting depth

開槽 Slotted



側邊 Side



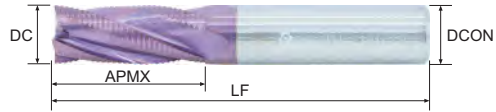
ap: 軸向切削深度 Axial depth of cutting

ae: 徑向切削深度 Radial depth of cutting

DC: 刃徑 Diameter of cutting

FM-CMM 4000 細齒 4 刃鎢鋼粗銑刀

4 Flutes Fine Pitch & Finishing Rough 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	

FM-CMM 4000系列切削參數

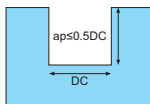
The Cutting Data For FM-CMM 4000 Series

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

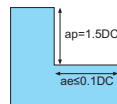
直徑 (mm) Shank		6	8	10	12	16
轉速 n (min)		3100	2300	1900	1600	1200
進給速度 Vf (mm/min)	開槽 Slotted	120	120	120	120	135
	側邊 Side	325	375	375	275	200

切削深度 Cutting depth

開槽 Slotted

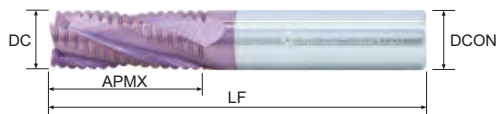


側邊 Side



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

RM-CMM 4000 粗齒 4 刃鎢鋼粗銑刀
4 Flutes Fine Pitch & Roughing 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 RM-CMM4040	●	4	10	4	50	
RM-CMM4050	●	5	12.5	6	50	
RM-CMM4060	●	6	15	6	50	
RM-CMM4070	●	7	17.5	8	60	
RM-CMM4080	●	8	20	8	60	
RM-CMM4100	●	10	25	10	75	
RM-CMM4120	●	12	30	12	75	
RM-CMM4120L136	●	12	36	12	75	
RM-CMM4150	●	15	37.5	16	100	
RM-CMM4160	●	16	48	16	100	

RM-CMM 4000系列切削參數

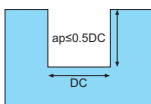
The Cutting Data For RM-CMM 4000 Series

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

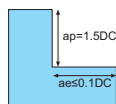
直徑 (mm) Shank		4	6	8	10	12	16
轉速 n (min)		4700	3100	2300	1900	1600	1200
進給速度 Vf (mm/min)	開槽 Slotted	120	120	120	120	120	135
	側邊 Side	325	325	375	375	275	200

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-CWM 鎢鋼複合材料精加工端銼刀
Carbide End Mill For Composites Finishing



NEW

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-CWM8040	●	4	12	4	50	8	
CFM-CWM12050	●	5	15	6	50	12	
CFM-CWM12060	●	6	18	6	50	12	
CFM-CWM11060L124		6	24	6	50	11	
CFM-CWM14080L125	●	8	25	8	60	14	
CFM-CWM16100	●	10	30	10	75	16	
CFM-CWM17120L132		12	32	12	75	17	

CFM-CWM系列切削參數

The Cutting Data For CFM-CWM Series

被加工材質
Material

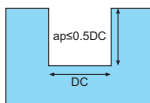
玻璃纖維
Glass Fiber

碳纖維
Carbon Fiber

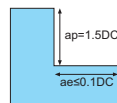
直徑 (mm) Shank		4	6	8	10	12
轉速 n (min)		6370	4250	3190	2550	2130
進給速度 (mm/min) Vf	開槽 Slotted	510	470	450	410	360
	側邊 Side	1020	940	900	820	730

切削深度 Cutting depth

開槽 Slotted



側邊 Side



ap : 軸向切削深度 Axial depth of cutting

ae : 徑向切削深度 Radial depth of cutting

DC : 刃徑 Diameter of cutting

S-EMB 2000 微小徑球頭 2 刃鎢鋼端銑刀
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	切削長度 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	

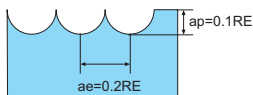
S-EMB 2000系列切削參數

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 Edge Angle

S-EMB 2000L2 微小徑長頸短刃球頭 2 刃鎢鋼端銑刀

Micro Diameter Long Neck Short Flute Ball Nose 2 Flutes Carbide End Mill



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

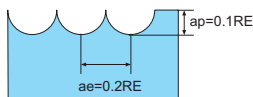
S-EMB 2000L2系列切削參數

The Cutting Data For S-EMB 2000L2 Series

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

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

切削深度 Cutting depth



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

S-EPB 2000 微小徑 2 刃球頭鎢鋼端銑刀
Micro Diameter 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
S-EPB2003		0.15	0.3	0.6	4	50	
S-EPB2004	●	0.2	0.4	0.8	4	50	
S-EPB2005		0.25	0.5	1	4	50	
S-EPB2006	●	0.3	0.6	1.2	4	50	
S-EPB2007		0.35	0.7	1.4	4	50	
S-EPB2008	●	0.4	0.8	1.6	4	50	
S-EPB2009		0.45	0.9	1.8	4	50	

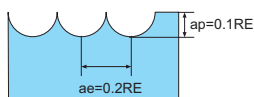
S-EPB 2000系列切削參數

The Cutting Data For S-EPB 2000 Series

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

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

EMB 2000 球頭 2 刃鎢鋼端銼刀
2 Flutes Ball Nose Carbide End Mill

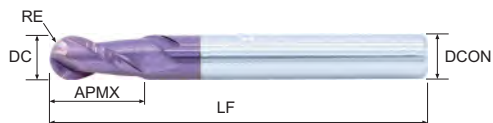

新規格上市
New Specification Arrival



產品型號 Model No	在庫 Stock	刃角 R RE	切削直徑 DC	切削長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
EMB2010	●	0.5	1	2	4	50	
EMB2010D6	●	0.5	1	2	6	50	
EMB2010E1D6	●	0.5	1	2	6	75	
EMB2015	●	0.75	1.5	3	4	50	
EMB2015D6	●	0.75	1.5	3	6	50	
EMB2015E1D6	●	0.75	1.5	3	6	75	
EMB2020	●	1	2	4	4	50	
EMB2020D6	●	1	2	4	6	50	
EMB2020E1D6	●	1	2	4	6	75	
EMB2025	●	1.25	2.5	5	4	50	
EMB2025D6	●	1.25	2.5	5	6	50	
EMB2030	●	1.5	3	6	4	50	
EMB2030D3	●	1.5	3	6	3	50	
EMB2030D6	●	1.5	3	6	6	50	
EMB2030E1D3	●	1.5	3	6	3	75	
EMB2030E1D6	●	1.5	3	6	6	75	
EMB2030HD3	●	1.5	3	6	3	100	
EMB2032	●	1.6	3.2	6.4	4	50	
EMB2035	●	1.75	3.5	7	4	50	
EMB2035D6	●	1.75	3.5	7	6	50	
EMB2035E1	●	1.75	3.5	7	4	75	
EMB2035E1D6	●	1.75	3.5	7	6	75	
EMB2040	●	2	4	8	4	50	
EMB2040D6	●	2	4	8	6	50	
EMB2040E1	●	2	4	8	4	75	
EMB2040E1D6	●	2	4	8	6	75	
EMB2040H	●	2	4	8	4	100	
EMB2040HD6	●	2	4	8	6	100	
EMB2042	●	2.1	4.2	8.4	6	50	
EMB2049	●	2.45	4.9	9.8	6	50	
EMB2050	●	2.5	5	10	6	50	
EMB2050E1	●	2.5	5	10	6	75	
EMB2050H	●	2.5	5	10	6	100	

※ 請接下頁。 ※ Continued on next page.

EMB 2000 球頭 2 刃鎢鋼端銼刀
2 Flutes Ball Nose Carbide End Mill



新規格上市
New Specification Arrival



NEW

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
EMB2050HD5	●	2.5	5	10	5	100	
EMB2056	●	2.8	5.6	11.2	6	50	
EMB2060	●	3	6	12	6	50	
EMB2060E1	●	3	6	12	6	75	
EMB2060H	●	3	6	12	6	100	
EMB2060M	●	3	6	12	6	150	
EMB2065	●	3.25	6.5	13	8	60	
EMB2069	●	3.45	6.9	13.8	8	60	
EMB2070	●	3.5	7	14	8	60	
EMB2080	●	4	8	16	8	60	
EMB2080E1	●	4	8	16	8	75	
EMB2080H	●	4	8	16	8	100	
EMB2080M	●	4	8	16	8	150	
EMB2080R	●	4	8	16	8	200	
EMB2090	●	4.5	9	18	10	75	
EMB2100	●	5	10	20	10	75	
EMB2100H	●	5	10	20	10	100	
EMB2100M	●	5	10	20	10	150	
EMB2100R	●	5	10	20	10	200	
EMB2120	●	6	12	24	12	75	
EMB2120H	●	6	12	24	12	100	
EMB2120M	●	6	12	24	12	150	
EMB2120R	●	6	12	24	12	200	
EMB2160	●	8	16	32	16	100	
EMB2160M	●	8	16	32	16	150	
EMB2160R	●	8	16	32	16	200	
EMB2200	●	10	20	40	20	100	
EMB2200M	●	10	20	40	20	150	
EMB2200R	●	10	20	40	20	200	

EMB 2000系列切削參數

The Cutting Data For EMB 2000 Series

被加工材質
Material

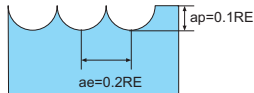
鋼
Steel

不鏽鋼
Stainless steel

鑄鐵
Cast Iron

直徑 (mm) Shank	3	4	5	6	8	10	12	16	20
轉速 n (min)	8400	6400	4300	4300	3200	2600	2200	1600	1300
進給速度 Vf (mm/min)	150	235	245	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

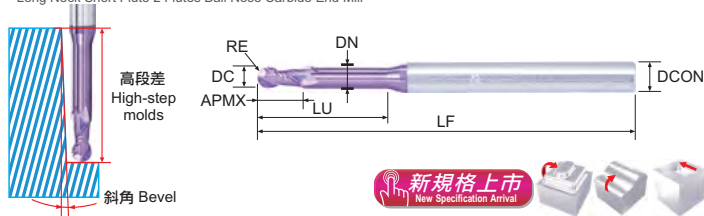
RE：刃角 R Edge Angle



EMB 2000L2

長頸球頭 2 刃鎢鋼端銼刀

Long Neck Short Flute 2 Flutes Ball Nose Carbide End Mill



新規格上市
New Specification Arrival



產品型號 Model No	在庫 Stock	刃角 R RE	切削直徑 DC	切刃長度 APMX	柄部直徑 DCON	頸徑 DN	可使用長度 LU	標準全長 LF	價格 Price
EMB2010L204	●	0.5	1	0.8	4	0.95	4	50	
EMB2010L206	●	0.5	1	0.8	4	0.95	6	50	
EMB2010L208	●	0.5	1	0.8	4	0.95	8	50	
EMB2010L210	●	0.5	1	0.8	4	0.95	10	50	
EMB2010L212	●	0.5	1	0.8	4	0.95	12	50	
EMB2015L204	●	0.75	1.5	1.2	4	1.45	4	50	
EMB2015L206	●	0.75	1.5	1.2	4	1.45	6	50	
EMB2015L208	●	0.75	1.5	1.2	4	1.45	8	50	
EMB2015L210	●	0.75	1.5	1.2	4	1.45	10	50	
EMB2015L212	●	0.75	1.5	1.2	4	1.45	12	50	
NEW EMB2020L112D6	●	1	2	1.6	6	1.94	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	
EMB2020L212E1	●	1	2	1.6	4	1.94	12	75	
EMB2020L214		1	2	1.6	4	1.94	14	50	
EMB2020L216	●	1	2	1.6	4	1.94	16	50	
EMB2020L216E1	●	1	2	1.6	4	1.94	16	75	
EMB2030L208	●	1.5	3	2.4	4	2.85	8	50	
EMB2030L210	●	1.5	3	2.4	4	2.85	10	50	
EMB2030L212	●	1.5	3	2.4	4	2.85	12	50	
EMB2030L214	●	1.5	3	2.4	4	2.85	14	50	
EMB2030L216	●	1.5	3	2.4	4	2.85	16	50	
EMB2030L220	●	1.5	3	2.4	4	2.85	20	50	
EMB2040L212		2	4	3.2	4	3.8	12	50	
EMB2040L214		2	4	3.2	4	3.8	14	50	
EMB2040L216		2	4	3.2	4	3.8	16	50	
EMB2040L220		2	4	3.2	4	3.8	20	50	
EMB2040L225		2	4	3.2	4	3.8	25	50	
EMB2060L220		3	6	4.8	6	5.9	20	50	
EMB2060L235HD8	●	3	6	12	8	5.9	35	100	
EMB2060L240MD8	●	3	6	12	8	5.9	40	150	

EMB 2000L2系列切削參數

The Cutting Data For EMB 2000L2 Series

被加工材質
Material

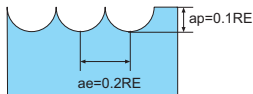
鋼
Steel

不鏽鋼
Stainless steel

鑄鐵
Cast Iron

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

切削深度 Cutting depth

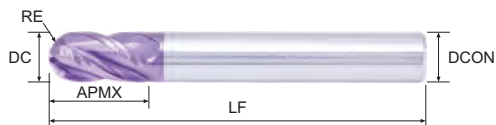


ap：軸向切削深度 Axial depth of cutting

ae：徑向切削深度 Radial depth of cutting

RE：刃角R R Edge Angle

EMB 4000 球頭 4 刃鎢鋼端銑刀
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	
EMB4040D6	●	2	4	8	6	50	
EMB4040E1	●	2	4	8	4	75	
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	
EMB4070L1175	●	3.5	7	17.5	8	60	
EMB4080	●	4	8	16	8	60	
EMB4080E1	●	4	8	16	8	75	
EMB4080H	●	4	8	16	8	100	
EMB4080M	●	4	8	16	8	150	
EMB4100	●	5	10	20	10	75	
EMB4100H	●	5	10	20	10	100	
EMB4100M	●	5	10	20	10	150	
EMB4120	●	6	12	24	12	75	
EMB4120H	●	6	12	24	12	100	
EMB4120M	●	6	12	24	12	150	
EMB4160	●	8	16	32	16	100	
EMB4160M	●	8	16	32	16	150	
EMB4200	●	10	20	40	20	100	

EMB 4000系列切削參數

The Cutting Data For EMB 4000 Series

被加工材質
Material

鋼

Steel

不鏽鋼

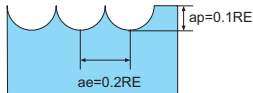
Stainless steel

鑄鐵

Cast Iron

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

切削深度 Cutting depth

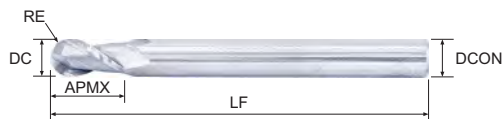


ap : 軸向切削深度 Axial depth of cutting

ae : 徑向切削深度 Radial depth of cutting

RE : 刃角 R Edge Angle

EWB 2000 鋁用球頭 2 刃銑鋼端銑刀
For Aluminum 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	標準全長 LF	價格 Price
EWB2010		0.5	1	2	4	50	
EWB2015		0.75	1.5	3	4	50	
EWB2020	●	1	2	4	4	50	
EWB2030	●	1.5	3	6	4	50	
EWB2040	●	2	4	8	4	50	
EWB2050		2.5	5	10	6	50	
EWB2060	●	3	6	12	6	50	
EWB2060E1		3	6	12	6	75	
EWB2080		4	8	16	8	60	
EWB2100		5	10	20	10	75	
EWB2100H		5	10	20	10	100	
EWB2120		6	12	24	12	75	

EWB 2000系列切削參數

The Cutting Data For EWB 2000 Series

被加工材質
Material

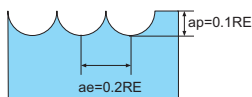
鋁合金
Aluminum

銅
Copper

塑膠
Plastic

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



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 刃鎢鋼端銑刀

2 Flutes Ball Nose Carbide End Mill



新規格上市
New Specification Arrival



產品型號 Model No	在庫 Stock	刃角 R RE	切削直徑 DC	切刃長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
EPB2010	●	0.5	1	2	4	50	
EPB2015	●	0.75	1.5	3	4	50	
EPB2020	●	1	2	4	4	50	
EPB2030	●	1.5	3	6	4	50	
EPB2030D3	●	1.5	3	6	3	50	
EPB2030D6	●	1.5	3	6	6	50	
EPB2040	●	2	4	8	4	50	
EPB2050	●	2.5	5	10	6	50	
EPB2060	●	3	6	12	6	50	
EPB2060E1	●	3	6	12	6	75	
EPB2060H	●	3	6	12	6	100	
NEW EPB2070	●	3.5	7	14	8	60	
EPB2080	●	4	8	16	8	60	
NEW EPB2080E1	●	4	8	16	8	75	
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

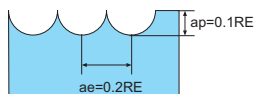
直徑 (mm) Shank	3	4	6	8	10	12	16	20
轉速 n (min)	8400	6400	4300	3200	2600	2200	1600	1300
進給速度 Vf (mm/min)	150	235	245	275	275	255	230	205

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 刃鎢鋼端銼刀
4 Flutes Ball Nose Carbide End Mill



新規格上市
New Specification Arrival



產品型號 Model No	在庫 Stock	刃角 R RE	切削直徑 DC	切刃長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
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	
NEW EPB4055	●	2.75	5.5	11	6	50	
EPB4060	●	3	6	12	6	50	
EPB4065	●	3.25	6.5	13	8	60	
EPB4070L1175	●	3.5	7	17.5	8	60	
EPB4080	●	4	8	16	8	60	
EPB4100	●	5	10	20	10	75	
EPB4120	●	6	12	24	12	75	
EPB4160		8	16	32	16	100	
EPB4200		10	20	40	20	100	

EPB 4000系列切削參數

The Cutting Data For EPB 4000 Series

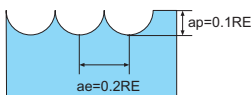
被加工材質
Material

合金鋼
Alloy Steel

碳鋼
Carbon Steel

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

切削深度 Cutting depth



ap：軸向切削深度 Axial depth of cutting

ae：徑向切削深度 Radial depth of cutting

RE：刃角 R Edge Angle

EEB 2000 球頭 2 刃鎢鋼端銼刀

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
EEB2020		1	2	4	4	50	
EEB2030		1.5	3	6	4	50	
EEB2040		2	4	8	4	50	
EEB2050	●	2.5	5	10	6	50	
EEB2060	●	3	6	12	6	50	
EEB2080	●	4	8	16	8	60	
EEB2100		5	10	20	10	75	
EEB2120		6	12	24	12	75	

EEB 2000系列切削參數

The Cutting Data For EEB 2000 Series

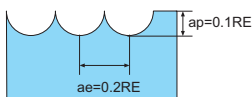
被加工材質
Material

合金鋼
Alloy Steel

碳鋼
Carbon Steel

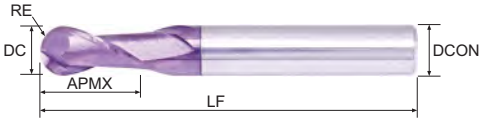
直徑 (mm) Shank	4	6	8	10	12
轉速 n (min)	6400	4300	3200	2600	2200
進給速度 Vf (mm/min)	235	245	275	275	255

切削深度 Cutting depth



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

DMB 2000 球頭 2 刃鎢鋼端銑刀
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	切刀長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
DMB2030	●	1.5	3	6	4	50	
DMB2030D6	●	1.5	3	6	6	50	
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	
DMB2070	●	3.5	7	14	8	60	
DMB2080	●	4	8	16	8	60	
DMB2090	●	4.5	9	18	10	75	
DMB2100	●	5	10	20	10	75	
DMB2120	●	6	12	24	12	75	

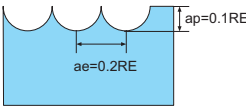
DMB 2000系列切削參數

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
轉速 n (min)	6400	4300	3200	2600	2200
進給速度 Vf (mm/min)	235	245	275	275	255

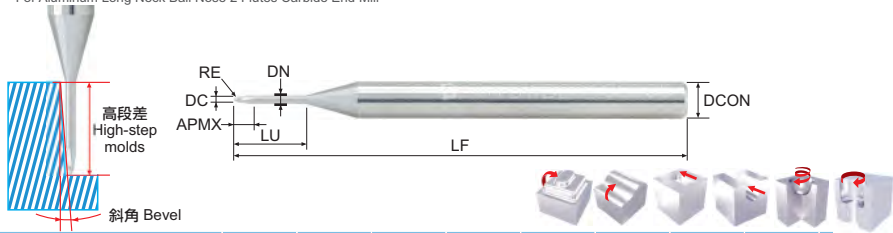
切削深度 Cutting depth



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

DWB 2000L2 鋁用長頸球頭 2 刃鎢鋼端銑刀

For Aluminum Long Neck Ball Nose 2 Flutes Carbide End Mill



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

DWB 2000L2系列切削參數

The Cutting Data For DWB 2000L2 Series

被加工材質
Material

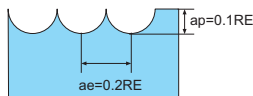
鋁合金
Aluminum

銅
Copper

塑膠
Plastic

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

切削深度 Cutting depth



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

DPB 2000 球頭 2 刃鎢鋼端銑刀
2 Flutes Ball Nose Carbide End Mill



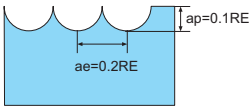
產品型號 Model No	在庫 Stock	刃角 R RE	切削直徑 DC	切刃長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
DPB2060	●	3	6	12	6	50	
DPB2060H	●	3	6	12	6	100	
DPB2100H	●	5	10	20	10	100	

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	6	10
轉速 n (min)	4300	2600
進給速度 Vf (mm/min)	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 Edge Angle



PA-DPB series

拋物弧形加工 鎢鋼端銑刀

Parabolic Arc Machining Carbide End Mill

全新矽鈦材質，高耐磨、高韌性 可切削硬度HRC55°~60°

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

進口五軸機加工研磨、鎢鋼弧型球刀 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。

Imported Five-axis machine for grinding carbide arc ball tools, **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，依幾何不同刀刃設計，應用在鋁合金、高溫合金加工也有極優秀的表現，適合中、精度加工。

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

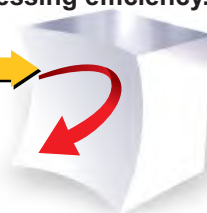


加工切深效率提升 2 倍

Double the cutting depth,
doubling the processing efficiency.

拋物線銑削
Parabolic Milling

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



螺旋角採用30°設計
Helix angle 30° design.





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
PA-DPB4060L1140R45	●	1	45	6	14	6	50	4	
PA-DPB4060L1205R100	●	1	100	6	20.5	6	50	4	
PA-DPB6060L1140R45	●	1	45	6	14	6	50	6	
PA-DPB4080L1160R45		1.5	45	8	16	8	60	4	
PA-DPB4080L1220R95	●	1.5	95	8	22	8	60	4	
PA-DPB6080L1160R45	●	1.5	45	8	16	8	60	6	
PA-DPB4100L1245R90	●	2	90	10	24.5	10	75	4	
PA-DPB6100L1165R40	●	2	40	10	16.5	10	75	6	
PA-DPB6100L1175R40		2	40	10	17.5	10	75	6	
PA-DPB4120L1270R85		2	85	12	27	12	75	4	
PA-DPB6120L1185R40	●	2	40	12	18.5	12	75	6	

PA-DPB系列切削參數

The Cutting Data For PA-DPB Series

被加工材質
Material

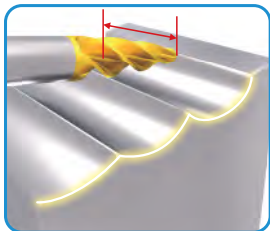
合金鋼
Alloy Steel

碳鋼
Carbon Steel

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

拋物線銑削加工面積範圍比較

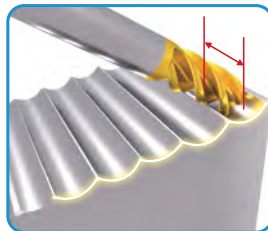
Comparison of the machining area range of parabolic milling



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.

EPU4000系列

260°內R角 4 刃鎢鋼端銑刀

特殊鈦鈦塗層，全新進口棒材，耐震高、抗崩損
Special titanium coating and new imported bar, the product has high shock resistance and can resist edge breakage.

適用材質
Processing on

合金鋼
Alloy Steel

碳鋼
Carbon Steel

螺旋角35°設計，260°圓頭設計，適用各式特殊加工成型

Helix angle 35° design, 260° round head design, suitable for various, special processing and molding.

排屑槽設計理想，排屑效率高，刀刃耗損低、有效提升刀具壽命，倒角表面光滑

Smoother chips evacuation design, high chip removal efficiency and cutting edge wear low, effectively improve tool life, smooth surface of chamfer.

260°圓頭設計

260° Round Head Design





EPU 4000L1 260°內R角4刃鎢鋼端銑刀

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	●	1	2	1.5	1.63	4	4	50	
EPU4030L1024L206		1.5	3	2.3	2.46	4	6	50	
EPU4040L1033L208	●	2	4	3	3.3	4	8	50	
EPU4050L1041L210	●	2.5	5	3.65	4.1	6	10	50	
EPU4060L1049L212	●	3	6	4.6	4.93	6	12	50	
EPU4080L1065L216	●	4	8	5.9	6.58	8	16	60	
EPU4100L1082L220	●	5	10	7.6	8.22	10	20	75	
EPU4120L1098L224	●	6	12	9.2	9.86	12	24	75	
EPU4120L1100L221		6	12	9.2	10	12	21	75	
EPU4160L1133L232		8	16	12.2	13.37	16	32	100	

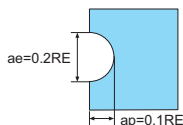
EPU 4000L1系列切削參數

The Cutting Data For EPU 4000 Series

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

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

切削深度 Cutting depth



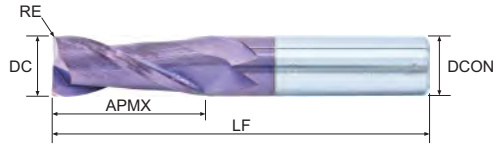
ap：軸向切削深度 Axial depth of cutting

ae：徑向切削深度 Radial depth of cutting

RE：刃角R R Edge Angle

DMR 2000R00 圓鼻 2 刃鎢鋼端銑刀

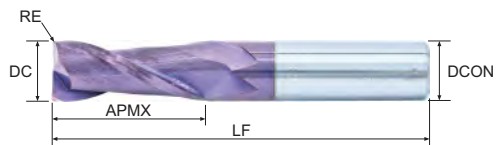
2 Flutes Corner Radius Carbide End Mill



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	
DMR2010R02E1D6	●	0.2	1	2.5	6	75	
DMR2015R02	●	0.2	1.5	3.75	4	50	
DMR2015R02E1D6	●	0.2	1.5	3.75	6	75	
DMR2020R02	●	0.2	2	5	4	50	
DMR2020R05	●	0.5	2	5	4	50	
DMR2020R05E1D6	●	0.5	2	5	6	75	
DMR2025R02	●	0.2	2.5	6.25	4	50	
DMR2030R02	●	0.2	3	7.5	4	50	
DMR2030R02E1	●	0.2	3	7.5	4	75	
DMR2030R05	●	0.5	3	7.5	4	50	
DMR2030R05E1	●	0.5	3	7.5	4	75	
DMR2030R10	●	1	3	7.5	4	50	
DMR2030R10D6	●	1	3	7.5	6	50	
DMR2030R10E1	●	1	3	7.5	4	75	
DMR2040R02	●	0.2	4	10	4	50	
DMR2040R02E1	●	0.2	4	10	4	75	
DMR2040R02H	●	0.2	4	10	4	100	
DMR2040R05	●	0.5	4	10	4	50	
DMR2040R05E1	●	0.5	4	10	4	75	
DMR2040R05H	●	0.5	4	10	4	100	
DMR2040R10	●	1	4	10	4	50	
DMR2040R10E1	●	1	4	10	4	75	
DMR2040R10H	●	1	4	10	4	100	
DMR2040R15D6	●	1.5	4	10	6	50	
DMR2060R02	●	0.2	6	15	6	50	
DMR2060R02E1	●	0.2	6	15	6	75	
DMR2060R02H	●	0.2	6	15	6	100	
DMR2060R05	●	0.5	6	15	6	50	
DMR2060R05E1	●	0.5	6	15	6	75	
DMR2060R05H	●	0.5	6	15	6	100	
DMR2060R10	●	1	6	15	6	50	
DMR2060R10E1	●	1	6	15	6	75	

※ 請接下頁。 ※ Continued on next page.

DMR 2000R00 圓鼻 2 刃鎢鋼端銑刀
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
DMR2060R10H	●	1	6	15	6	100	
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 2000R00L2 長頸型圓鼻 2 刃鎢鋼端銑刀

Long Neck 2 Flutes Corner Radius Carbide End Mill



新規格上市
New Specification Arrival



產品型號 Model No	在庫 Stock	刃角 R RE	切削直徑 DC	切刃長度 APMX	柄部直徑 DCON	可使用長度 LU	標準全長 LF	價格 Price
NEW DMR2020R02L208	●	0.2	2	5	4	8	50	
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

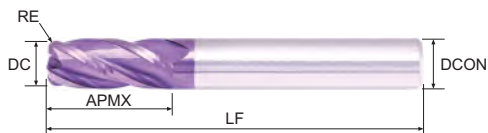
The Cutting Data For DMR 2000R00L2 Series

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 4000R00 圓鼻 4 刃 鎢 鋼 端 銑 刀

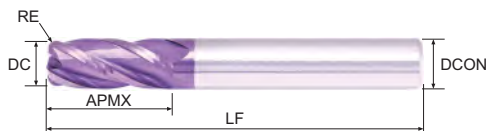
4 Flutes Corner Radius Carbide End Mill



新規格上市
New Specification Arrival


產品型號 Model No	在庫 Stock	刃角 R RE	切削直徑 DC	切削長度 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	
DMR4015R05	●	0.5	1.5	3.75	4	50	
DMR4020R02	●	0.2	2	5	4	50	
DMR4020R02L106	●	0.2	2	6	4	50	
DMR4020R05	●	0.5	2	5	4	50	
DMR4020R05L106	●	0.5	2	6	4	50	
DMR4025R02	●	0.2	2.5	6.25	4	50	
DMR4030R02	●	0.2	3	7.5	4	50	
DMR4030R02L106	●	0.2	3	6	4	50	
DMR4030R02L108	●	0.2	3	8	4	50	
DMR4030R02E1	●	0.2	3	7.5	4	75	
DMR4030R05	●	0.5	3	7.5	4	50	
DMR4030R05L108	●	0.5	3	8	4	50	
NEW DMR4030R05L112D6	●	0.5	3	12	6	50	
DMR4030R05D3	●	0.5	3	7.5	3	50	
DMR4030R05E1	●	0.5	3	7.5	4	75	
DMR4030R05E1D6	●	0.5	3	7.5	6	75	
NEW DMR4030R10	●	1	3	7.5	4	50	
DMR4030R10L112D6	●	1	3	12	6	50	
DMR4030R10D6	●	1	3	7.5	6	50	
DMR4030R10E1		1	3	7.5	4	75	
DMR4040R02	●	0.2	4	10	4	50	
DMR4040R02E1	●	0.2	4	10	4	75	
DMR4040R02H	●	0.2	4	10	4	100	
DMR4040R05	●	0.5	4	10	4	50	
NEW DMR4040R05D6	●	0.5	4	10	6	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	

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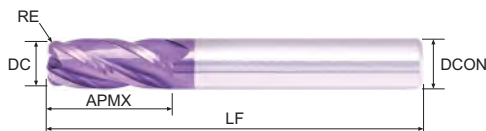
DMR 4000R00 圓鼻 4 刃鋼端銑刀
 4 Flutes Corner Radius Carbide End Mill


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
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	
DMR4050R10		1	5	12.5	6	50	
DMR4060R02	●	0.2	6	15	6	50	
DMR4060R02E1	●	0.2	6	15	6	75	
DMR4060R02H	●	0.2	6	15	6	100	
NEW DMR4060R03		0.3	6	15	6	50	
DMR4060R05	●	0.5	6	15	6	50	
DMR4060R05E1	●	0.5	6	15	6	75	
DMR4060R05L110E1	●	0.5	6	10	6	75	
DMR4060R05H	●	0.5	6	15	6	100	
DMR4060R10	●	1	6	15	6	50	
DMR4060R10E1	●	1	6	15	6	75	
DMR4060R10H	●	1	6	15	6	100	
DMR4060R15	●	1.5	6	15	6	50	
DMR4060R20	●	2	6	15	6	50	
DMR4070R05	●	0.5	7	17.5	8	60	
DMR4080R02	●	0.2	8	20	8	60	
DMR4080R03	●	0.3	8	20	8	60	
DMR4080R05	●	0.5	8	20	8	60	
DMR4080R05E1	●	0.5	8	20	8	75	
DMR4080R05H	●	0.5	8	20	8	100	
DMR4080R10	●	1	8	20	8	60	
NEW DMR4080R10L124	●	1	8	24	8	60	
DMR4080R10E1	●	1	8	20	8	75	
DMR4080R10H	●	1	8	20	8	100	
DMR4080R15	●	1.5	8	20	8	60	
DMR4080R20	●	2	8	20	8	60	
DMR4100R02	●	0.2	10	25	10	75	
DMR4100R05	●	0.5	10	25	10	75	
DMR4100R05H	●	0.5	10	25	10	100	

※ 請接下頁。 ※ Continued on next page.

DMR 4000R00 圓鼻 4 刃鎢鋼端銑刀

4 Flutes Corner Radius Carbide End Mill

 **新規格上市**
New Specification Arrival

產品型號 Model No	在庫 Stock	刃角 R RE	切削直徑 DC	切刃長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
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	
NEW DMR4100R25	●	2.5	10	25	10	75	
DMR4100R30	●	3	10	25	10	75	
NEW DMR4100R35	●	3.5	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	
NEW DMR4120R20H	●	2	12	30	12	100	
NEW DMR4120R25	●	2.5	12	30	12	75	
NEW DMR4160R10	●	1	16	48	16	100	

DMR 4000R00系列切削參數

The Cutting Data For DMR 4000R00 Series

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

直徑 (mm) Shank	3	4	6	8	10	12	16
轉速 n (min)	6300	6400	4300	3200	2600	2200	1600
進給速度 Vf (mm/min)	520	520	560	570	540	540	400



DPR 4000R00 圓鼻 4 刃鎢鋼端銑刀
4 Flutes Corner Radius Carbide End Mill

MG $\frac{1}{16}$ 10.5 CO 12% HRC <60 P 500 30 TiSiN



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

適用材質 Material

合金鋼 Alloy Steel

碳鋼 Carbon Steel

新品上市
New Arrival



產品型號 Model No	在庫 Stock	刃角 R RE	切削直徑 DC	切刃長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
NEW DPR4010R02		0.2	1	2.5	4	50	
NEW DPR4015R02	●	0.2	1.5	3.75	4	50	
NEW DPR4020R02		0.2	2	5	4	50	
NEW DPR4020R03		0.3	2	5	4	50	
NEW DPR4020R05		0.5	2	5	4	50	
NEW DPR4030R02		0.2	3	7.5	4	50	
NEW DPR4030R03D3		0.3	3	7.5	3	50	
NEW DPR4030R05		0.5	3	7.5	4	50	
NEW DPR4030R10		1	3	7.5	4	50	
NEW DPR4040R02		0.2	4	10	4	50	
NEW DPR4040R05		0.5	4	10	4	50	
NEW DPR4040R10		1	4	10	4	50	
NEW DPR4040R15		1.5	4	10	4	50	
NEW DPR4080R02	●	0.2	8	20	8	60	

DPR 4000R00系列切削參數
The Cutting Data For DPR 4000R00 Series

被加工材質

Material

合金鋼 Alloy Steel

碳鋼 Carbon Steel

直徑 (mm) Shank	3	4	8
轉速 n (min)	6300	6400	3200
進給速度 Vf (mm/min)	520	520	570



GPR 6000R00 6 刃圓鼻高精度抗震鎢鈾端銑刀
6 Flutes Rounded Land High Precision Seismic Performance 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
GPR6060R02		0.2	6	15	6	50	
GPR6060R05		0.5	6	15	6	50	
GPR6060R10		1	6	15	6	50	
GPR6080R05		0.5	8	20	8	60	
GPR6080R10	●	1	8	20	8	60	
GPR6100R05		0.5	10	25	10	75	
GPR6100R10	●	1	10	25	10	75	
GPR6120R05		0.5	12	30	12	75	
GPR6120R10		1	12	30	12	75	
GPR6160R05	●	0.5	16	48	16	100	
GPR6160R10		1	16	48	16	100	
GPR6160R20		2	16	48	16	100	
GPR6200R05		0.5	20	50	20	100	
GPR6200R10		1	20	50	20	100	
GPR6200R20	●	2	20	50	20	100	

GPR 6000R00系列切削參數

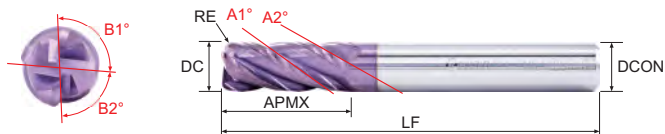
The Cutting Data For GPR 6000R00 Series

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

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

PH-FMR 4000R00 不等分割不等螺旋非圓溝 4 刃圓鼻鎢鋼端銼刀

Unequal Division & Unequal Helix Angle Without Rounded Land 4 Flutes Corner Radius Carbide End Mill


 不等分割 B1°≠B2° 不等螺旋 A1°≠A2°
Unequal Division Unequal Spiral

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-FMR4040R02L112	●	0.2	4	12	4	50	
PH-FMR4040R05	●	0.5	4	10	4	50	
PH-FMR4040R10	●	1	4	10	4	50	
PH-FMR4040R10D6	●	1	4	10	6	50	
PH-FMR4050R05	●	0.5	5	12.5	6	50	
NEW PH-FMR4060R02L118	●	0.2	6	18	6	50	
PH-FMR4060R05	●	0.5	6	15	6	50	
PH-FMR4060R10	●	1	6	15	6	50	
NEW PH-FMR4080R02L124	●	0.2	8	24	8	60	
PH-FMR4080R05	●	0.5	8	20	8	60	
PH-FMR4080R10	●	1	8	20	8	60	
PH-FMR4080R30	●	3	8	20	8	60	
NEW PH-FMR4100R02L130	●	0.2	10	30	10	75	
PH-FMR4100R05	●	0.5	10	25	10	75	
PH-FMR4100R05L130	●	0.5	10	30	10	75	
PH-FMR4100R05H	●	0.5	10	25	10	100	
PH-FMR4100R08	●	0.8	10	25	10	75	
PH-FMR4100R10	●	1	10	25	10	75	
NEW PH-FMR4120R02L136	●	0.2	12	36	12	75	
PH-FMR4120R05	●	0.5	12	30	12	75	
PH-FMR4120R08L136	●	0.8	12	36	12	75	
PH-FMR4120R10	●	1	12	30	12	75	
PH-FMR4120R30	●	3	12	30	12	75	
PH-FMR4160R05	●	0.5	16	48	16	100	

PH-FMR 4000R00系列切削參數

The Cutting Data For PH-FMR 4000R00 Series

 被加工材質
Material

 鋼
Steel

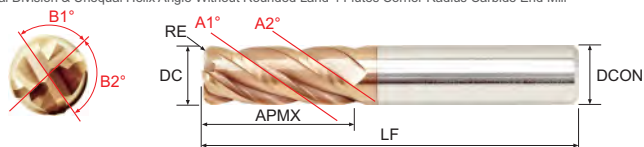
 不鏽鋼
Stainless steel

 鑄鐵
Cast Iron

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

PH-FPR 4000R00 不等分割不等螺旋非圓溝 4 刃圓鼻銼鋼端銼刀

Unequal Division & Unequal Helix Angle Without Rounded Land 4 Flutes Corner Radius Carbide End Mill



不等分割 $B1^\circ \neq B2^\circ$ 不等螺旋 $A1^\circ \neq A2^\circ$
Unequal Division Unequal Spiral

 **新規格上市**
New Specification Arrival

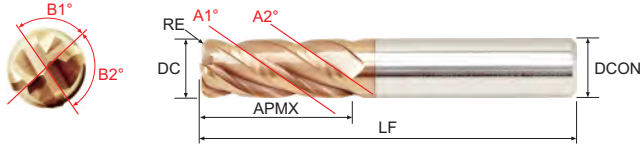


	產品型號 Model No	在庫 Stock	刃角 R RE	切削直徑 DC	切刃長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
NEW	PH-FPR4020R02	●	0.2	2	5	4	50	
NEW	PH-FPR4020R05	●	0.5	2	5	4	50	
NEW	PH-FPR4030R02	●	0.2	3	7.5	4	50	
	PH-FPR4030R10D6	●	1	3	7.5	6	50	
	PH-FPR4040R05	●	0.5	4	10	4	50	
	PH-FPR4040R10	●	1	4	10	4	50	
NEW	PH-FPR4040R15D6	●	1.5	4	10	6	50	
	PH-FPR4050R05	●	0.5	5	12.5	6	50	
	PH-FPR4060R05	●	0.5	6	15	6	50	
	PH-FPR4060R10	●	1	6	15	6	50	
NEW	PH-FPR4060R10L106	●	1	6	6	6	50	
NEW	PH-FPR4060R10E1		1	6	15	6	75	
	PH-FPR4060R15	●	1.5	6	15	6	50	
	PH-FPR4080R05	●	0.5	8	20	8	60	
	PH-FPR4080R05E1	●	0.5	8	20	8	75	
	PH-FPR4080R10	●	1	8	20	8	60	
	PH-FPR4080R10E1	●	1	8	20	8	75	
NEW	PH-FPR4080R10H		1	8	20	8	100	
	PH-FPR4080R15	●	1.5	8	20	8	60	
	PH-FPR4080R20	●	2	8	20	8	60	
	PH-FPR4100R05	●	0.5	10	25	10	75	
	PH-FPR4100R05L130	●	0.5	10	30	10	75	
	PH-FPR4100R05H	●	0.5	10	25	10	100	
NEW	PH-FPR4100R10L110D	●	1	10	10	10	60	
	PH-FPR4100R10	●	1	10	25	10	75	
	PH-FPR4100R10L130	●	1	10	30	10	75	
NEW	PH-FPR4100R10L130H		1	10	30	10	100	
NEW	PH-FPR4100R10H		1	10	25	10	100	
NEW	PH-FPR4100R10L130M		1	10	30	10	150	
	PH-FPR4100R15	●	1.5	10	25	10	75	
	PH-FPR4100R20	●	2	10	25	10	75	
	PH-FPR4100R20L130	●	2	10	30	10	75	
NEW	PH-FPR4120R03	●	0.3	12	30	12	75	

※ 請接下頁。 ※ Continued on next page.

PH-FPR 4000R00 不等分割不等螺旋非圓滿 4 刃圓鼻鎢鋼端銑刀

Unequal Division & Unequal Helix Angle Without Rounded Land 4 Flutes Corner Radius Carbide End Mill


 不等分割 $B1^\circ \neq B2^\circ$ 不等螺旋 $A1^\circ \neq A2^\circ$
 Unequal Division Unequal Spiral

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
PH-FPR4120R05	●	0.5	12	30	12	75	
PH-FPR4120R10	●	1	12	30	12	75	
PH-FPR4120R10H	●	1	12	30	12	100	
PH-FPR4120R10M		1	12	30	12	150	
PH-FPR4120R20	●	2	12	30	12	75	
PH-FPR4120R30L136	●	3	12	36	12	75	

PH-FPR 4000R00系列切削參數

The Cutting Data For PH-FPR 4000R00 Series

 被加工材質
 Material

 合金鋼
 Alloy Steel

 碳鋼
 Carbon Steel

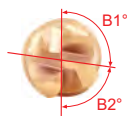
直徑 (mm) Shank	4	6	8	10	12
轉速 n (min)	6400	4300	3200	2600	2200
進給速度 Vf (mm/min)	520	560	570	540	540



PH-FER 4000R00

不等分割不等螺旋非圓溝 4 刃圓鼻鎢鋼端銑刀

Unequal Division & Unequal Helix Angle Without Rounded Land 4 Flutes Corner Radius Carbide End Mill



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



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



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-FER4040R05		0.5	4	10	4	50	
PH-FER4040R10		1	4	10	4	50	
PH-FER4060R05		0.5	6	15	6	50	
PH-FER4060R10	●	1	6	15	6	50	
PH-FER4060R15	●	1.5	6	15	6	50	
PH-FER4080R05	●	0.5	8	20	8	60	
PH-FER4080R10		1	8	20	8	60	
PH-FER4080R15	●	1.5	8	20	8	60	
PH-FER4080R20	●	2	8	20	8	60	
PH-FEP4080R30		3	8	20	8	60	
PH-FER4100R05		0.5	10	25	10	75	
PH-FER4100R10		1	10	25	10	75	
PH-FER4100R15		1.5	10	25	10	75	
PH-FER4100R20		2	10	25	10	75	
PH-FER4120R05		0.5	12	30	12	75	
PH-FER4120R10		1	12	30	12	75	
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

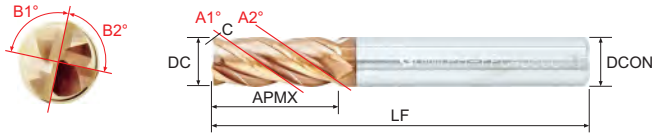
合金鋼
Alloy Steel

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-FPC 4000C00 不等分割不等螺旋非圓溝 4 刃 C 角鎢鋼端銑刀

Unequal Division Unequal Helix Angle Non Round Land 4 Flutes C Corner Carbide End Mill



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

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

 **新規格上市**
New Specification Arrival



產品型號 Model No	在庫 Stock	倒角 C	切削直徑 DC	切刃長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
PH-FPC4030C01L108	●	0.1	3	8	4	50	
PH-FPC4040C015	●	0.15	4	10	4	50	
PH-FPC4060C02	●	0.2	6	15	6	50	
PH-FPC4080C02	●	0.2	8	20	8	60	
PH-FPC4080C02E1	●	0.2	8	20	8	75	
PH-FPC4100C02	●	0.2	10	25	10	75	
PH-FPC4100C03	●	0.3	10	25	10	75	
PH-FPC4100C03L130		0.3	10	30	10	75	
PH-FPC4100C03L136	●	0.3	10	36	10	75	
PH-FPC4120C035	●	0.35	12	30	12	75	
PH-FPC4160C05	●	0.5	16	48	16	100	
PH-FPC4160C50	●	5	16	48	16	100	

NEW
NEW

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	16
轉速 n (min)	6400	4300	3200	2600	2200	1600
進給速度 Vf (mm/min)	520	560	570	540	540	400

SUH-FMR 5000R00L1-DIN系列

不等螺旋 Unequal Helix Angle

$A1^\circ \neq A2^\circ$

$A1^\circ$

$A2^\circ$



DIN規格

Specification for Europe Market

圓鼻圓溝不等分割不等螺旋

Round Land Unequal Division Unequal Helix Corner Radius

粗精銑 VS 高進給 鎢鋼端銑刀

Rough and Fine

High Feed

Carbide End Mill

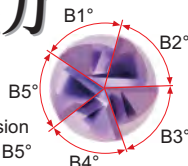
適用材質
Applicable for

鋼
Alloy Steel

不鏽鋼
Stainless Steel

鑄鐵
Cast Iron

不等分割 Unequal Division
 $B1^\circ \neq B2^\circ \neq B3^\circ \neq B4^\circ \neq B5^\circ$



高進給粗精銑刀，特殊刃齒設計

能減少加工阻力及增加斷屑效率，側固平面抗震設計

High feed rough vs fine special tooth design

Can reduce processing resistance and increase chip breaking efficiency.
Lateral Stabilized Plane Anti-vibration design.

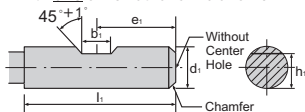
採用不等刃分割、不等螺旋 $35^\circ/38^\circ$ 設計，有利於高速加工抗崩裂性

可進行高進給銑削，加大容屑槽設計，提升排屑效率、能適應較大的切深

不等分割設計，可利於高進給加工提高抗震性，改善加工表面優於粗銑刀，降低機台負載。

Featuring an unequal flute spacing and unequal helix design $35^\circ/38^\circ$, this tool enhances high-speed machining stability and chip resistance. It supports high-feed milling with an enlarged chip pocket design for improved chip evacuation, making it suitable for deeper cuts. The unequal spacing design also improves anti-vibration performance during high feed machining, resulting in better surface finish compared to conventional roughing end mills and reducing machine load.

With **one** drive flat for $d1=6$ and 20mm



尺寸(毫米mm)

d_1	b	e_1	h_1	d_2	l_1	l_2
$+0.05$	0	-1	h_{11}	$+2$	$+1$	0
0	0	0	h_{11}	0	0	0
6	4.2	18	5.1	36	—	—
8	5.5	18	6.9	36	—	—
10	7	20	8.5	40	—	—
12	8	22.5	10.4	45	—	—
14	8	22.5	12.7	45	—	—
16	10	24	14.2	48	—	—
18	10	24	16.2	48	—	—
20	11	25	18.2	50	—	—



**特殊設計
Special design for**

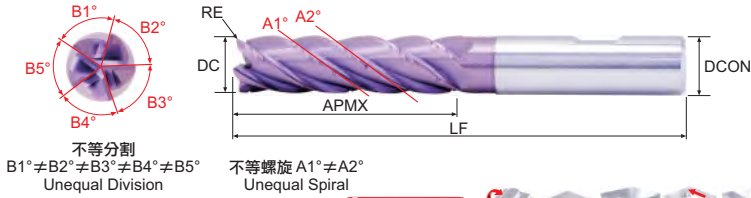


可保護圓鼻刀刀尖
protecting end mill tip

SUH-FMR 5000R00L1-DIN

圓溝不等分割不等螺旋高進給 5 刃圓鼻粗精銑銑鋼端銑刀

Round Land Unequal Division Unequal Helix High Feed 5 Flutes Corner Radius Carbide End Mill


 新品上市
 New Arrival


產品型號 Model No	在庫 Stock	刃角 R RE	切削直徑 DC	切刃長度 APMX	柄部直徑 DCON	頸徑 DN	可使用長度 LU	標準全長 LF	價格 Price
NEW SUH-FMR5060R05L124D-DIN	●	0.5	6	24	6	5.8	29	60	
NEW SUH-FMR5080R05L132E1-DIN	●	0.5	8	32	8	7.7	38	75	
NEW SUH-FMR5100R05L140H-DIN	●	0.5	10	40	10	9.7	47	100	
NEW SUH-FMR5120R05L148H-DIN	●	0.5	12	48	12	11.6	55	100	
NEW SUH-FMR5160R05L164K-DIN	●	0.5	16	64	16	15.5	73	125	
NEW SUH-FMR5200R05L180M-DIN		0.5	20	80	20	19.5	91	150	

SUH-FMR 5000R00L1-DIN 系列切削參數

The Cutting Data For SUH-FMR 5000R00L1-DIN 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)	4300	3200	2600	2200	1600	1300
進給速度 Vf (mm/min)	560	570	560	540	520	520

SUH-FYR 4000R00系列

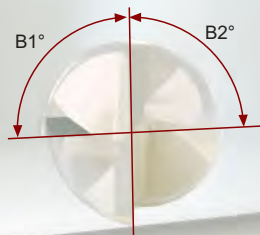
圓溝不等分割不等螺旋

Round Land Unequal Division Unequal Helix

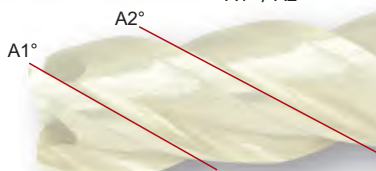
特殊設計
Special design for
可保護圓鼻刀尖
protecting end mill tip



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



不等螺旋 Unequal Helix Angle
 $A1^\circ \neq A2^\circ$



難削材高進給 4 刃圓鼻鎢鋼端銑刀

For Hard Materials High Feed

4 Flutes Corner Radius Carbide End Mill



專用特殊塗層 Special Coating for

鈦合金
Titanium Alloy

鎳合金
Nickel Alloy

特殊鍍鈦，適用於難切削材、航太零部件

提升耐高溫、耐磨耗度，表面不易沾黏金屬

用於擺線加工表現效果佳

Special titanium coating, suitable for difficult to cut materials and aerospace parts. Improved high temperature resistance and wear resistance, the surface is not easy to stick to metal. **Excellent performance in trochoidal machining.**

採用不等刃分割、不等螺旋 $35^\circ/38^\circ$ 設計，有利於高速加工抗崩裂性，

可進行**高進給銑削**，加大容屑槽設計，提升排屑效率、能**適應較大的切深**

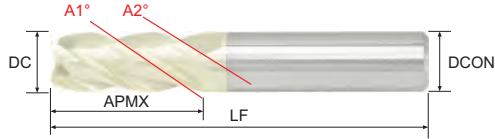
不等分割設計可利於高進給加工**提高抗震性**，改善加工表面優於粗銑刀，降低機台負載。

Featuring an unequal flute spacing and unequal helix design $35^\circ/38^\circ$, this tool enhances **high-speed machining** stability and chip resistance. It supports high-feed milling with an enlarged chip pocket design for improved chip evacuation, **making it suitable for deeper cuts.**

The unequal spacing design also improves **anti-vibration** performance during high-feed machining, resulting in better surface finish compared to conventional roughing end mills and reducing machine load.

SUH-FYR 4000R00

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



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

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

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 SUH-FYR4030R05	●	0.5	3	7.5	4	50	
SUH-FYR4040R05	●	0.5	4	10	4	50	
SUH-FYR4040R10		1	4	10	4	50	
SUH-FYR4060R05	●	0.5	6	15	6	50	
SUH-FYR4060R10		1	6	15	6	50	
SUH-FYR4060R15		1.5	6	15	6	50	
SUH-FYR4080R05	●	0.5	8	20	8	60	
SUH-FYR4080R10		1	8	20	8	60	
SUH-FYR4080R05E1		0.5	8	20	8	75	
SUH-FYR4080R10E1		1	8	20	8	75	
SUH-FYR4080R15		1.5	8	20	8	60	
SUH-FYR4080R20		2	8	20	8	60	
SUH-FYR4100R05	●	0.5	10	25	10	75	
SUH-FYR4100R05H		0.5	10	25	10	100	
SUH-FYR4100R10		1	10	25	10	75	
SUH-FYR4100R15		1.5	10	25	10	75	
SUH-FYR4100R20		2	10	25	10	75	
SUH-FYR4120R05	●	0.5	12	30	12	75	
SUH-FYR4120R10	●	1	12	30	12	75	
SUH-FYR4160R05	●	0.5	16	48	16	100	
NEW SUH-FYR4200R05	●	0.5	20	50	20	100	



SUH-FYR 4000R00系列切削參數

The Cutting Data For SUH-FYR 4000R00 Series

被加工材質
Material

鈦合金
Titanium

直徑 (mm) Shank	4	6	8	10	12	16	20
轉速 n (min)	3900	2600	2000	1600	1300	1000	800
進給速度 Vf (mm/min)	310	210	160	190	150	160	130

被加工材質
Material

鎳合金
Nickel Alloy

直徑 (mm) Shank	4	6	8	10	12	16	20
轉速 n (min)	1900	1300	1000	800	650	500	400
進給速度 Vf (mm/min)	150	100	80	90	80	80	65

CC-AMC V型扁尾槽銼鋼刀
V-Type Chamfer Cutter


產品型號 Model No	在庫 Stock	切削直徑 DC	切刃長度 APMX	柄部直徑 DCON	頭徑 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	
CC-AMC4080L209	●	8	3.8	8	4	9	60	4	
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	

CC-AMC系列切削參數

The Cutting Data For CC-AMC Series

被加工材質 Material

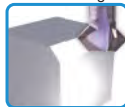
鋼 Steel 不鏽鋼 Stainless steel 鑄鐵 Cast Iron

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

圓孔倒角
Chamfer Of Rounding Hole



倒角
Chamfering



側面倒角
Side Chamfering



側面V槽
Side V Groove Processing



背面倒角
Back Chamfering



CR-AMC V型端尾槽鎢鋼刀
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	

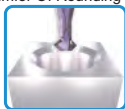
CR-AMC系列切削參數

The Cutting Data For CR-AMC Series

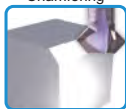
被加工材質 Material
鋼 Steel 不鏽鋼 Stainless steel 鑄鐵 Cast Iron

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

圓孔倒角
Chamfer Of Rounding Hole



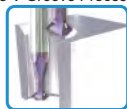
倒角
Chamfering



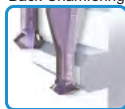
側面倒角
Side Chamfering



側面V槽
Side V Groove Processing



背面倒角
Back Chamfering



DT-DMC 2000 2 刃鎢鋼定位鑽

2 Flutes Positioning Drill

MG       



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
DT-DMC2030	●	3	10	3	50	
DT-DMC2040	●	4	12	4	50	
DT-DMC2050	●	5	20	5	50	
DT-DMC2060	●	6	20	6	50	
DT-DMC2080	●	8	25	8	60	
DT-DMC2100	●	10	25	10	75	
DT-DMC2120		12	30	12	75	
DT-DMC2160		16	35	16	100	
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

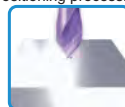
圓孔倒角
Chamfer Of Rounding Hole



倒角
Chamfering



定位加工
Positioning processing



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	10	3	50	
DC-DMC2040	●	4	12	4	50	
DC-DMC2040E1	●	4	12	4	75	
DC-DMC2050	●	5	20	5	50	
DC-DMC2050E1		5	20	5	75	
DC-DMC2060	●	6	20	6	50	
DC-DMC2060H		6	20	6	100	
DC-DMC2080	●	8	25	8	60	
DC-DMC2080H		8	25	8	100	
DC-DMC2100	●	10	25	10	75	
DC-DMC2100H		10	25	10	100	
DC-DMC2120	●	12	30	12	75	
DC-DMC2120H		12	30	12	100	
DC-DMC2160	●	16	35	16	100	
DC-DMC2160M		16	35	16	150	
DC-DMC2200		20	40	20	100	

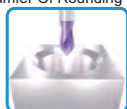
DC-DMC 2000系列切削參數

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

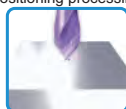
圓孔倒角
Chamfer Of Rounding Hole



倒角
Chamfering



定位加工
Positioning processing



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	10	3	50	
DR-DMC2040	●	4	12	4	50	
DR-DMC2040E1		4	12	4	75	
DR-DMC2050	●	5	20	5	50	
DR-DMC2050E1		5	20	5	75	
DR-DMC2060	●	6	20	6	50	
DR-DMC2060H		6	20	6	100	
DR-DMC2080	●	8	25	8	60	
DR-DMC2080H		8	25	8	100	
DR-DMC2100	●	10	25	10	75	
DR-DMC2100H		10	25	10	100	
DR-DMC2120	●	12	30	12	75	
DR-DMC2120H		12	30	12	100	
DR-DMC2160	●	16	35	16	100	
DR-DMC2160M		16	35	16	150	
DR-DMC2200	●	20	40	20	100	

DR-DMC 2000系列切削參數

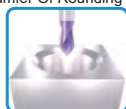
The Cutting Data For DR-DMC 2000 Series

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

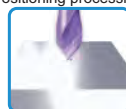
圓孔倒角
Chamfer Of Rounding Hole

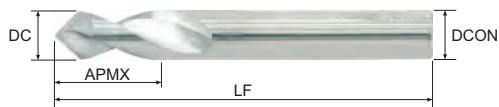


倒角
Chamfering



定位加工
Positioning processing





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

DC-DWC 2000系列切削參數

The Cutting Data For DC-DWC 2000 Series

被加工材質
Material

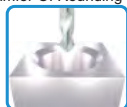
鋁合金
Aluminum

銅
Copper

塑膠
Plastic

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

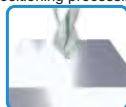
圓孔倒角
Chamfer Of Rounding Hole



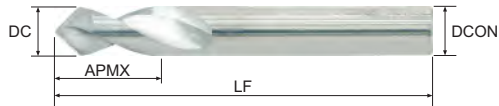
倒角
Chamfering



定位加工
Positioning processing



DR-DWC 2000 2 刃鋼定位鑽
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-DWC2030		3	10	3	50	
DR-DWC2040		4	12	4	50	
DR-DWC2050		5	20	5	50	
DR-DWC2060		6	20	6	50	
DR-DWC2080		8	25	8	60	
DR-DWC2100		10	25	10	75	
DR-DWC2160		16	35	16	100	

DR-DWC 2000系列切削參數

The Cutting Data For DR-DWC 2000 Series

被加工材質
Material

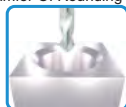
鋁合金
Aluminum

銅
Copper

塑膠
Plastic

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

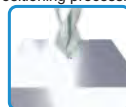
圓孔倒角
Chamfer Of Rounding Hole



倒角
Chamfering



定位加工
Positioning processing



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

DC-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

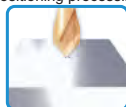
圓孔倒角
Chamfer Of Rounding Hole



倒角
Chamfering



定位加工
Positioning processing



DC-DMM 2000 2 刃定位側銑銑鋼鑽

2 Flutes Positioning Side Milling Carbide Drill



新規格上市
New Specification Arrival



產品型號 Model No	在庫 Stock	切削直徑 DC	切刃長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
DC-DMM2040	●	4	8	4	50	
DC-DMM2060	●	6	12	6	50	
DC-DMM2080		8	16	8	60	
DC-DMM2100	●	10	20	10	75	
DC-DMM2120	●	12	24	12	75	
DC-DMM2160		16	32	16	100	
DC-DMM2200		20	40	20	100	

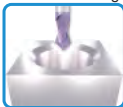
DC-DMM 2000系列切削參數

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

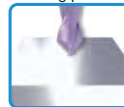
圓孔倒角
Chamfer Of Rounding Hole



倒角
Chamfering



定位加工
Positioning processing

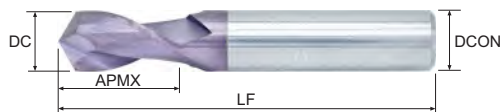


斜面側銑
Incline Side Milling



DR-DMM 2000 2 刃定位側銑銑鋼鑽
2 Flutes Positioning Side Milling Carbide Drill

MG **30**



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

DR-DMM 2000系列切削參數

The Cutting Data For DR-DMM 2000 Series

被加工材質
Material

鋼
Steel

不鏽鋼
Stainless steel

鑄鐵
Cast Iron

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

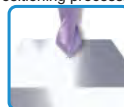
圓孔倒角
Chamfer Of Rounding Hole



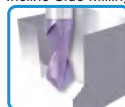
倒角
Chamfering



定位加工
Positioning processing



斜面側銑
Incline Side Milling



DCC-AMC-DIN series

鎢鋼倒角刀

Chamfering Carbide End Mill

精準倒角、孔倒角加工最佳利器
The best tool for precise chamfering and hole chamfering.

適用材質 Applicable for **鋼 Steel** **不鏽鋼 Stainless Steel** **鑄鐵 Cast Iron**

採用超細粒子硬質合金AlTiN塗層，增加刀具耐磨耗性

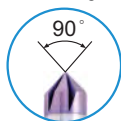
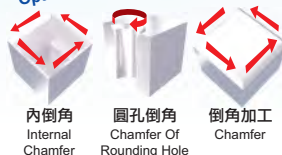
採用德國WALTER五軸機研磨生產，研磨尺寸精準且穩定

側平面固定抗振動DIN規格設計，使刀具加工壽命更長，提高工作加工質量

Produced with german WALTER five-axis machine, the dimension is accurate and stable, using ultra-fine particle cemented carbide AlTiN coating increases tool wearability, the fixed surface for reducing vibration-DIN design extend tool processing life and improve processing quality.

DCC-AMC-DIN 鎢鋼倒角刀
Carbide Chamfering End Mill

使排屑表現優化
Optimize chip removal performance



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	刃數 CICT	價格 Price
DCC-AMC4040		4	2	4	50	4	
DCC-AMC4060-DIN	●	6	3	6	50	4	
DCC-AMC4080-DIN	●	8	4	8	60	4	
DCC-AMC6100-DIN	●	10	5	10	75	6	
DCC-AMC6120-DIN	●	12	6	12	75	6	

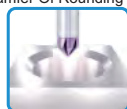
DCC-AMC-DIN系列切削參數

The Cutting Data For DCC-AMC-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
轉速 n (min)	5500	3700	2800	2300	1900
進給速度 Vf (mm/min)	660	740	560	690	570

圓孔倒角
Chamfer Of Rounding Hole



倒角
Chamfering



內倒角
Internal Chamfer



2刃鎢鋼倒角定位鑽

2 Flute Carbide Chamfering Drill

90°夾角強化 Angle Reinforced

90° Angle Reinforced Special Protection Design
Reduces cutting stress and effectively lowers wear!

➔ 90°夾角尖端處採用特殊強刃保護設計

➔ 減少切削應力、有效降低磨耗

DCH-YMC 2000 series

90°夾角強化 特殊保護設計

90° Angle Reinforced
Special Protection Design



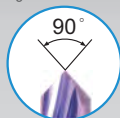
螺旋角12°設計，研磨尺寸精準且穩定，NC銑床專用定位鑽、孔倒角、倒角刀具，

採用超細粒子硬質合金AlTiN塗層，增加刀具耐磨耗性，延長刀具加工壽命，提高工作加工質量。

Adopts a 12° helix angle design for precise and stable grinding dimensions, NC milling machine specialized positioning drill, hole chamfering, and chamfering tools, utilizes ultra-fine particle carbide with an AlTiN coating, enhancing tool wear resistance, extending tool life, and improving machining quality.

DCH-YMC 2000 90°夾角尖端強化 2 刃鎢鋼倒角定位鑽

90° Angle Reinforced 2 Blade Carbide Chamfering Drill



新品上市
New Arrival



產品型號 Model No	在庫 Stock	切削直徑 DC	切削長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
DCH-YMC2030		3	9	3	50	
DCH-YMC2040		4	10	4	50	
DCH-YMC2050		5	12	5	50	
DCH-YMC2060		6	13	6	50	
DCH-YMC2080	●	8	23	8	60	
DCH-YMC2100		10	24	10	75	
DCH-YMC2120		12	28	12	75	
DCH-YMC2160		16	32	16	100	
DCH-YMC2200		20	35	20	100	

DCH-YMC 2000系列切削參數

The Cutting Data For DCH-YMC 2000 Series

被加工材質
Material

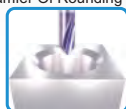
鋼
Steel

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

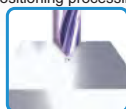
圓孔倒角
Chamfer Of Rounding Hole



倒角
Chamfering



定位加工
Positioning processing



DCM-EPC 3000 90°定位倒角 3 刃鎢鋼銼刀

90° Position Drilling Chamfering 3 Flutes Carbide End Mill



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

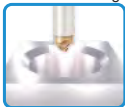
DCM-EPC 3000系列切削參數

The Cutting Data For DCM-EPC 3000 Series

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

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

圓孔倒角
Chamfer Of Rounding Hole



倒角
Chamfering



背面倒角
Back Chamfering

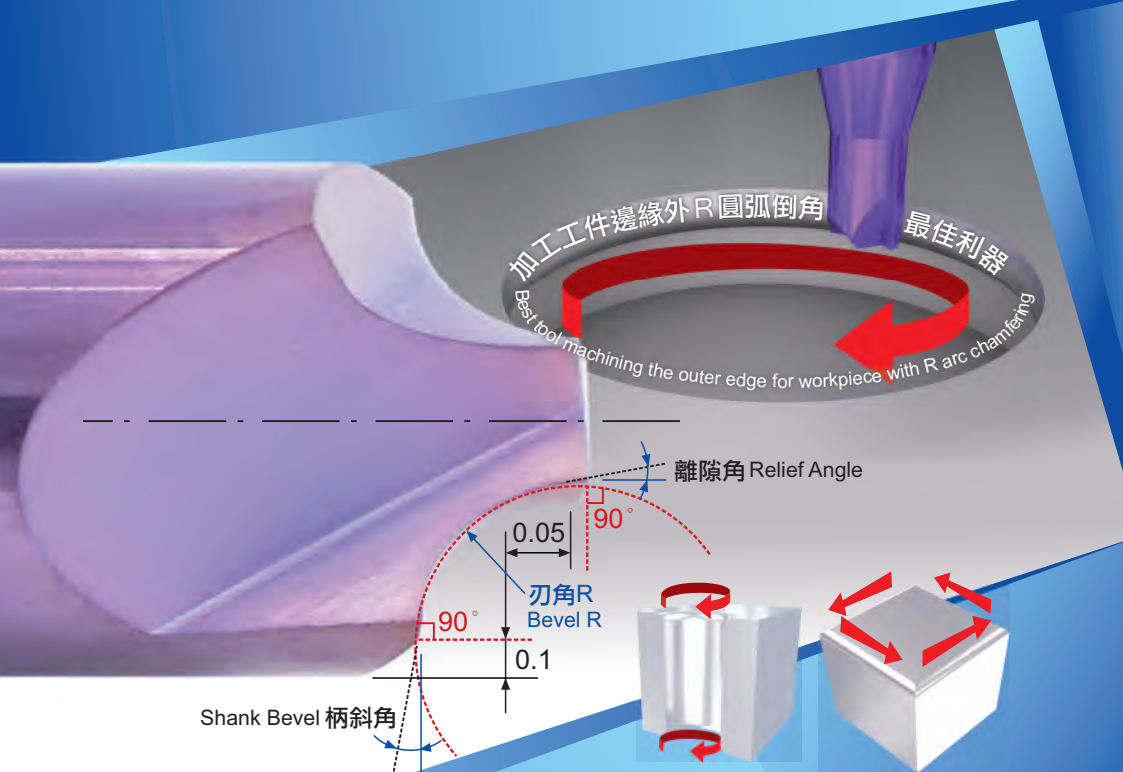


V型開槽
V Type Slotting



內倒角
Internal Chamfer





AMI 2000 系列



2 刃鎢鋼外 R 角倒角銑刀

2 Flutes External R Chamfering Carbide End Mill



採用全新進口棒材，加工工件硬度HRC55°以下，R角精準研磨
加工準確、耐磨性好，加工工件邊緣外R圓弧倒角的最佳利器

Using the latest import carbide rod, It can process on hardness up to HRC 55°, R angle precision grinding, accurate processing, the best tool for machining the outer edge of the workpiece with R arc chamfering.

適用材質
Processing on

鋼
Steel

不鏽鋼
Stainless Steel

鑄鐵
Iron Cast

AMI 2000 2 刃鎢鋼外 R 角倒角銼刀

2 Flutes External R Chamfering Carbide End Mill



新規格上市
New Specification Arrival



產品型號 Model No	在庫 Stock	刃角 R RE	切削直徑 DC	切削長度 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 AMI2020RE0500D12	●	5	2	—	12	—	75	
AMI2030RE0150D6	●	1.5	3	—	6	—	50	
AMI2030RE0500D16	●	5	3	15	16	13.2	100	
NEW AMI2030RE0500E1D16	●	5	3	15	16	13.2	75	
AMI2030RE0600D16	●	6	3	15	16	15.2	100	
AMI2030RE0125D6	●	1.25	3	9.5	6	—	50	
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

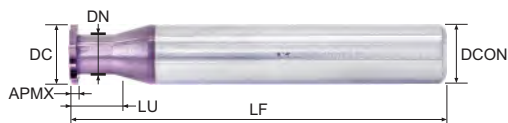
刃角 R R Angle	0.5	0.75	1	1.25	1.5	1.75	2	2.5	3	4	5	6
轉速 n (min)	7800	6350	4700	4000	3100	2800	2600	2200	1900	1500	1300	1100
進給速度 Vf (mm/min)	310	250	190	240	190	170	160	180	150	180	210	180

圓孔外 R 倒角
Rounding Hole Outside
R Chamfering



外 R 倒角
Outer R Chamfering





新規格上市
New Specification Arrival



產品型號 Model No	在庫 Stock	切削直徑 DC	切刃長度 APMX	柄部直徑 DCON	頸徑 DN	可使用長度 LU	標準全長 LF	刃數 CICT	價格 Price
AMT8080CW010		8	1	8	5.4	5	60	8	
AMT8080CW015		8	1.5	8	5.4	5.5	60	8	
AMT8080CW020		8	2	8	5.4	6	60	8	
AMT10120CW010		12	1	12	8.1	8	75	10	
AMT10120CW012	●	12	1.2	12	8.1	8.2	75	10	
AMT10120CW015	●	12	1.5	12	8.1	8.5	75	10	
AMT10120CW020		12	2	12	8.1	9	75	10	

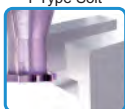
AMT系列切削參數

The Cutting Data For AMT Series

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

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

T型槽銑
T Type Slot



T型槽圓鼻鎢鋼端銑刀 T-Slot Corner Radius Carbide End Mill



圓溝加工專用 Specialized Machining for Circular Groove Slotting

高精度、高效率開槽銑刀

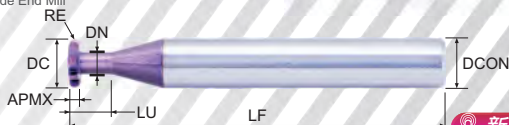
Integrated slotting end mill.

High-precision, High-efficiency slotting end mill.

一體式圓溝槽銑刀

AMT T型槽圓鼻鎢鋼端銑刀

T-Slot Corner Radius Carbide End Mill



AMT series



新品上市 New Arrival



產品型號 Model No	在庫 Stock	刃角 R RE	切削直徑 DC	切刃長度 APMX	柄部直徑 DCON	頸徑 DN	可使用長度 LU	標準全長 LF	刃數 CICT	價格 Price
NEW AMT4040CW006R03D6		0.3	4	0.6	6	2	4.1	50	4	
NEW AMT4040CW010R05D6		0.5	4	1	6	2	4.5	50	4	
NEW AMT4040CW020R10D6		1	4	2	6	2	5.5	50	4	
NEW AMT4050CW006R03		0.3	5	0.6	6	2.2	4.1	50	4	
NEW AMT4050CW010R05		0.5	5	1	6	2.2	4.5	50	4	
NEW AMT4050CW020R10		1	5	2	6	2.2	5.5	50	4	
NEW AMT4060CW006R03		0.3	6	0.6	6	2.7	4.6	50	4	
NEW AMT4060CW010R05		0.5	6	1	6	2.7	5	50	4	
NEW AMT4060CW020R10		1	6	2	6	2.7	6	50	4	
NEW AMT8080CW006R03		0.3	8	0.6	8	3.6	5.6	60	8	
NEW AMT8080CW010R05		0.5	8	1	8	3.6	6	60	8	
NEW AMT8080CW020R10		1	8	2	8	3.6	7	60	8	
NEW AMT8100CW006R03		0.3	10	0.6	10	4.5	6.6	75	8	
NEW AMT8100CW010R05		0.5	10	1	10	4.5	7	75	8	
NEW AMT8100CW020R10	●	1	10	2	10	4.5	8	75	8	
NEW AMT8100CW030R15		1.5	10	3	10	4.5	9	75	8	
NEW AMT8100CW040R20		2	10	4	10	4.5	10	75	8	
NEW AMT10120CW006R03		0.3	12	0.6	12	5.5	6.6	75	10	
NEW AMT10120CW010R05		0.5	12	1	12	5.5	7	75	10	
NEW AMT10120CW020R10		1	12	2	12	5.5	8	75	10	
NEW AMT10120CW030R15		1.5	12	3	12	5.5	9	75	10	
NEW AMT10120CW040R20		2	12	4	12	5.5	10	75	10	

AMT系列切削參數

The Cutting Data For AMT Series

被加工材質 Material

鋼 Steel

不鏽鋼 Stainless steel

鑄鐵 Cast Iron

直徑 (mm) Shank	6	8	10	12
轉速 n (min)	2100	1600	1300	1060
進給速度 Vf (mm/min)	250	380	310	320

R角T型槽銑
R Corner T Type Slot



內R開槽
Internal R Slotted





AWH系列 六角型槽 鎢鋼沖頭 CARBIDE Hexagonal Punch

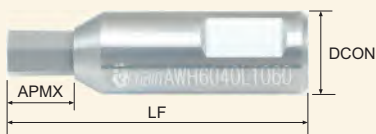
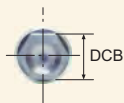
高速切削車成六角槽型

High Speed Cutting to Form Hexagonal Groove Shapes

可應用於汽、機車模具、電子設備及金屬零件等連接孔或配件之標記與成型、切割等多種加工用途，可用於大規模生產加工。

Applicable for marking, forming, cutting, and other processing uses on automotive and motorcycle molds, electronic devices, and metal parts such as connecting holes or accessories. Ideal for large-scale production processing.

AWH 六角型槽鎢鋼沖頭
Hexagonal Tungsten Carbide Punch



 **新品上市**
New Arrival

產品型號 Model No	在庫 Stock	刃柄徑孔徑 DCB	切刃長度 APMX	柄部直徑 DCON	標準全長 LF	公差 Tolerance ±0.02	價格 Price
 AWH6015L1025	●	1.5	2.5	8	28	1.54	
 AWH6020L1030	●	2	3	8	28	2.04	
 AWH6025L1040	●	2.5	4	8	28	2.55	
 AWH6030L1045	●	3	4.5	8	28	3.07	
 AWH6040L1060	●	4	6	8	28	4.07	
 AWH6050L1060	●	5	6	8	28	5.09	
 AWH6060L1060	●	6	6	8	28	6.09	

E180-AWA 1000L1 180° 鎢鋼平行雕刻端銑刀
 180° Engraving 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
E180-AWA1030L105		3	5	3	40	
E180-AWA1030L110	●	3	10	3	40	
E180-AWA1040L106		4	6	4	50	
E180-AWA1050L108		5	8	5	50	
E180-AWA1060L109		6	9	6	60	
E180-AWA1080L112		8	12	8	75	
E180-AWA1100L115		10	15	10	75	
E180-AWA1120L118		12	18	12	75	

E180-AWA 1000L1系列切削參數

The Cutting Data For E180-AWA 1000L1 Series

 被加工材質
 Material

 合金鋼
 Alloy Steel

 碳鋼
 Carbon Steel

 鋼
 Steel

 不鏽鋼
 Stainless steel

 鑄鐵
 Cast Iron

 鋁合金
 Aluminum

 銅
 Copper

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

30° 鎢鋼**精細**雕刻端銑刀

30° Tungsten Steel **Fine Engraving** End Mill

雕刻銑削及特殊倒角加工刀具

可進行**中、精細**加工

Mold processing engraving, milling and special chamfering, can do **medium** and **finishing** processing.



全新 **W500** 材質

採特殊刀長設計

Brand New W500 Material
Special flute length design

E030-AWC 1000L1 系列

適用材質

Material

合金鋼
Alloy Steel

碳鋼
Carbon Steel

鋼
Steel

不鏽鋼
Stainless steel

鑄鐵
Cast Iron

鋁合金
Aluminum

銅
Copper

E030-AWC 1000L1 30°倒角雕刻端銑刀

30° Engraving Chamfer End Mill



產品型號 Model No	在庫 Stock	切削直徑 DC	切刃長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
E030-AWC10012L105BD3		0.12	5	3	40	
E030-AWC10012L106B	●	0.12	6	4	40	
E030-AWC10012L108BD5		0.12	8	5	40	
E030-AWC10012L109D6	●	0.12	9	6	50	
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

合金鋼
Alloy Steel

碳鋼
Carbon Steel

鋼
Steel

不鏽鋼
Stainless steel

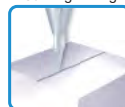
鑄鐵
Cast Iron

鋁合金
Aluminum

銅
Copper

直徑 (mm) Shank	3	4	5	6
轉速 n (min)	4250	3200	2550	2150
進給速度 Vf (mm/min)	85	70	50	45

雕刻銑削
Carving Milling



GMA 2000 鋁合金專用2刃鎢鋼端銑刀

For Aluminum Alloy 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	標準全長 LF	價格 Price
GMA2060	●	6	18	6	50	
GMA2080	●	8	24	8	60	
GMA2100	●	10	30	10	75	

GMA 2000系列切削參數

The Cutting Data For GMA 2000 Series

被加工材質
Material

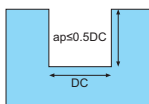
鋁合金
Aluminum

銅
Copper

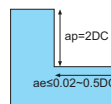
直徑 (mm) Shank		6	8	10
轉速 n (min)		10500	8000	6400
進給速度 (mm/min) Vf	開槽 Slotted	580	450	720
	側邊 Side	920	700	1150

切削深度 Cutting depth

開槽 Slotted



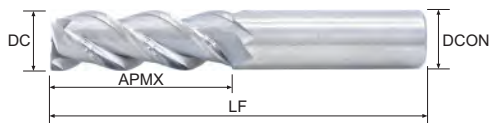
側邊 Side



ap：軸向切削深度 Axial depth of cutting

ae：徑向切削深度 Radial depth of cutting

DC：刃徑 Diameter of cutting

GMA 3000 鋁合金專用 3 刃鎢鋼端銑刀
For Aluminum Alloy 3 Flutes Carbide End Mill


新規格上市
New Specification Arrival



產品型號 Model No	在庫 Stock	切削直徑 DC	切削長度 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	
NEW GMA3080L135E1	●	8	35	8	75	
GMA3080H	●	8	24	8	100	
GMA3080M	●	8	24	8	150	
GMA3100	●	10	30	10	75	
NEW GMA3100L145H	●	10	45	10	100	
GMA3100M	●	10	30	10	150	
GMA3120	●	12	36	12	75	
NEW GMA3120L150H	●	12	50	12	100	
GMA3120H	●	12	36	12	100	
GMA3120M	●	12	36	12	150	
GMA3160	●	16	48	16	100	
GMA3200	●	20	50	20	100	
GMA3200L160	●	20	60	20	100	

GMA 3000系列切削參數

The Cutting Data For GMA 3000 Series

被加工材質
Material

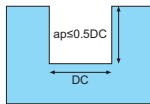
鋁合金
Aluminum

銅
Copper

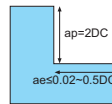
直徑 (mm) Shank		4	6	8	10	12	16	20
轉速 n (min)		15500	10500	8000	6400	5400	3900	3200
進給速度 (mm/min) Vf	開槽 Slotted	800	900	1000	1100	950	950	900
	側邊 Side	1200	1400	1600	1700	1500	1500	1300

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** 鋁合金專用 2 刃鎢鋼端銑刀
For Aluminum Alloy 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	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	
HMA2095	●	9.5	28.5	10	75	
HMA2100	●	10	30	10	75	
HMA2100H	●	10	30	10	100	
HMA2100M	●	10	30	10	150	
HMA2110		11	33	12	75	
HMA2120	●	12	36	12	75	
HMA2120H	●	12	36	12	100	
HMA2120M	●	12	36	12	150	
HMA2160	●	16	48	16	100	

HMA 2000系列切削參數

The Cutting Data For HMA 2000 Series

被加工材質
Material

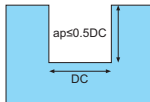
鋁合金
Aluminum

銅
Copper

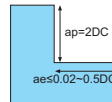
直徑 (mm) Shank		4	6	8	10	12	16
轉速 n (min)		15500	10500	8000	6400	5400	3900
進給速度 (mm/min) Vf	開槽 Slotted	800	900	1000	1100	950	950
	側邊 Side	1200	1400	1600	1700	1500	1500

切削深度 Cutting depth

開槽 Slotted



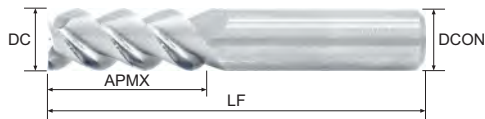
側邊 Side



ap : 軸向切削深度 Axial depth of cutting

ae : 徑向切削深度 Radial depth of cutting

DC : 刃徑 Diameter of cutting



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

HMA 3000系列切削參數

The Cutting Data For HMA 3000 Series

被加工材質
Material

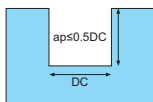
鋁合金
Aluminum

銅
Copper

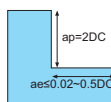
直徑 (mm) Shank		4	6	8	10	12	16	20
轉速 n (min)		15500	10500	8000	6400	5400	3900	3200
進給速度 Vf (mm/rev)	開槽 Slotted	800	900	1000	1100	950	950	900
	側邊 Side	1200	1400	1600	1700	1500	1500	1300

切削深度 Cutting depth

開槽 Slotted



側邊 Side



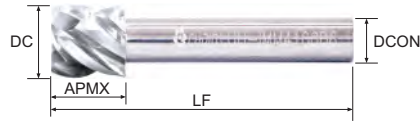
ap : 軸向切削深度 Axial depth of cutting

ae : 徑向切削深度 Radial depth of cutting

DC : 刃徑 Diameter of cutting

LU2-GWA 3000 鋁合金專用 3 刃圓溝 2 離隙車銑複合機銑鎢鋼端銑刀

For Aluminum Alloy 3 Flutes Rounded Land Double Edge 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
NEW LU2-GWA3080D6	●	8	8	6	40	
NEW LU2-GWA3100D6	●	10	10	6	40	
NEW LU2-GWA3120D10	●	12	12	10	40	

LU2-GWA 3000系列切削參數

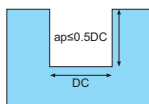
The Cutting Data For LU2-GWA 3000 Series

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

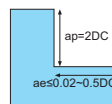
直徑 (mm) Shank		6	10
轉速 n (min)		10500	6400
進給速度 Vf (mm/min)	開槽 Slotted	900	1100
	側邊 Side	1400	1700

切削深度 Cutting depth

開槽 Slotted



側邊 Side



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

MU2-GMA 3000 鋁合金專用 3 刃圓溝 2 離除鎢鋼端銑刀

For Aluminum Alloy 3 Flutes Rounded Land Double Edge Carbide End Mill



 **新規格上市**
New Specification Arrival



產品型號 Model No	在庫 Stock	切削直徑 DC	切削長度 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-GMA3045L114	●	4.5	14	6	50	
MU2-GMA3050	●	5	15	6	50	
MU2-GMA3060	●	6	18	6	50	
MU2-GMA3080	●	8	24	8	60	
MU2-GMA3080E1	●	8	24	8	75	
MU2-GMA3080H	●	8	24	8	100	
MU2-GMA3080M	●	8	24	8	150	
MU2-GMA3090L124	●	9	24	10	75	
MU2-GMA3095L124	●	9.5	24	10	75	
MU2-GMA3100	●	10	30	10	75	
MU2-GMA3100M	●	10	30	10	150	
MU2-GMA3120	●	12	36	12	75	
MU2-GMA3120H	●	12	36	12	100	
MU2-GMA30120L145H	●	12	50	12	100	
MU2-GMA3120L150H	●	12	45	12	100	
MU2-GMA3120L155H	●	12	55	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

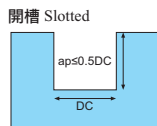
被加工材質
Material

鋁合金
Aluminum

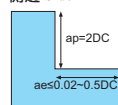
銅
Copper

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 Vf (mm/min)	開槽 Slotted	800	900	1000	1100	950	900
	側邊 Side	1200	1400	1600	1700	1500	1300

切削深度 Cutting depth



側邊 Side



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

MU2-HMA 3000 鋁合金專用 3 刃圓滿 2 離隙鎢鋼端銑刀 For Aluminum Alloy 3 Flutes Rounded Land Double Edge Carbide End Mill



新規格上市
 New Specification Arrival



產品型號 Model No	在庫 Stock	切削直徑 DC	切刃長度 APMX	柄部直徑 DCON	標準全長 LF	價格 Price
MU2-HMA3040	●	4	12	4	50	
MU2-HMA3050	●	5	15	6	50	
MU2-HMA3060	●	6	18	6	50	
MU2-HMA3070	●	7	21	8	60	
MU2-HMA3080	●	8	24	8	60	
MU2-HMA3090	●	9	27	10	75	
MU2-HMA3100	●	10	30	10	75	
MU2-HMA3120	●	12	36	12	75	
MU2-HMA3160	●	16	48	16	100	
MU2-HMA3160L155	●	16	55	16	100	

NEW

MU2-HMA 3000系列切削參數 The Cutting Data For MU2-HMA 3000 Series

被加工材質
 Material

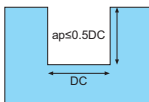
鋁合金
 Aluminum

銅
 Copper

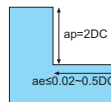
直徑 (mm) Shank	4	6	8	10	12	16
轉速 n (min)	15500	10500	8000	6400	5400	3900
進給速度 Vf (mm/min)	開槽 Slotted	800	900	1000	1100	950
	側邊 Side	1200	1400	1600	1700	1500

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

MU3-JMA 3000 series

● 3 刃圓溝設計

3 Flutes Round Gullet Design

圓溝全拋光設計

Fully polished round gullet design.

有效抑制加工產生熱能，使斷屑穩定、排屑順暢，延長加工時間壽命。

Effectively reduces heat generation during machining, enabling stable chip breaking, smooth chip evacuation, and longer tool life.

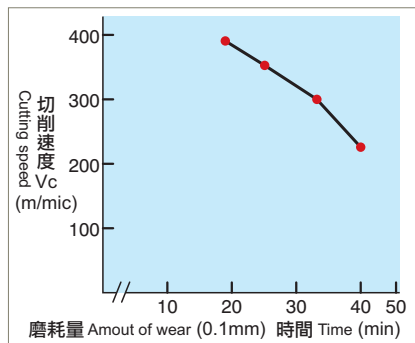
● 提升排屑性 Improved Chip Evacuation

特殊U型圓溝槽設計，利於插銑加工時排屑優良，減少工件產生端口毛刺。

The special U-shaped round gullet design enhances chip evacuation during plunge milling and effectively reduces burr formation at the work piece edge.



● 耐磨耗性 Improved Wear Resistance



螺旋角50°設計

50° Helix angle design.

● 3 離隙設計 3 Relief Flutes Design

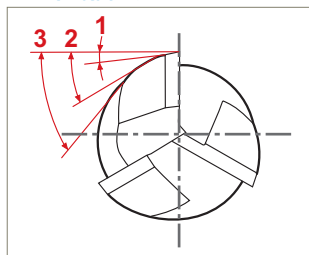
刃口採 3 離隙研磨

The cutting edge with features triple-relief grinding.

提升切削性能，有更良好的加工表面。

Enhances cutting performance and provides a better surface finish.

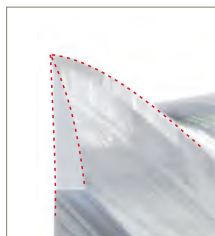
● 徑向離隙角 O.D Radial Relief Angle



● 刀尖鋒利性 Cutting Edge Sharpness

GMA / HMA系列加工刃刃口拋光研磨，使排屑更流暢，降低磨擦力及切削溫度，獲得良好表面粗度。

The GMA or HMA series feature polished and ground cutting edges to ensure smoother chip evacuation, reduce friction and cutting temperature, and achieve excellent surface finish.



MU3系列加工刃刃

採用 3 離隙設計，加強切削時的鋒利性更佳。

The MU3-JMA series adopts a triple relief edge design to enhance sharpness and improve cutting performance.



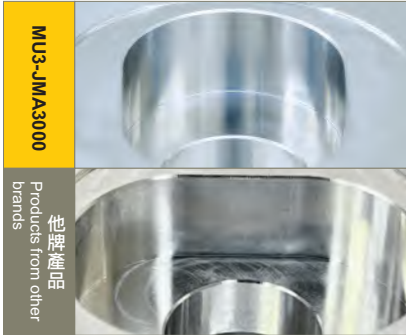
● 使用實例 Application Example

每刃皆採用3離隙設計，使刀刃切削強度提升，溼式切削加工，也提升不沾黏的加工可靠性。

Each cutting edge features a triple relief angle design, with enhancing edge strength during cutting.

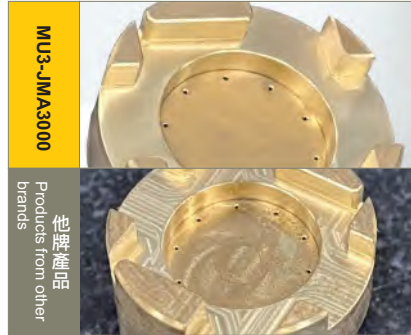
This design also improves machining reliability by reducing material adhesion, especially in wet machining applications.

鋁合金 Aluminum Alloy



刀具柄徑 Shank : Ø10.0 加工件 Workpiece : 6061
切削條件 : V:300 Ap:15.0
Cutting S:9554 Ae:0.2mm
Conditions F:2866

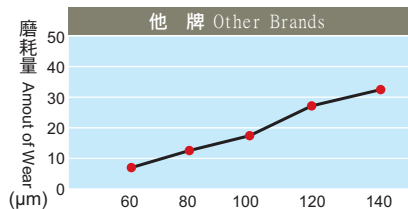
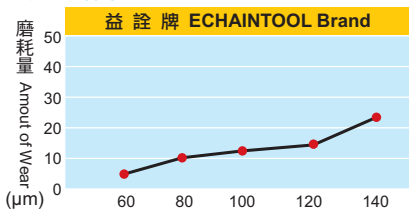
銅 Copper



刀具柄徑 Shank : Ø6.0 加工件 Workpiece : 合金銅
Cutting S:9554 Ae:1-6.0mm
Conditions F:2292 Alloy Copper



● 切削結果 Machining Result —●— 磨耗量 Amount of Wear



MU3-JMA 3000 鋁合金專用3刃圓溝3離隙端銑刀

For Aluminum Alloy 3 Flutes Rounded Land Triple Edge Carbide End Mill



 **新規格上市**
New Specification Arrival



產品型號 Model No	在庫 Stock	切削直徑 DC	切削長度 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-JMA3050D5	●	5	15	5	50	
MU3-JMA3060	●	6	18	6	50	
MU3-JMA3060E1	●	6	18	6	75	
MU3-JMA3080	●	8	24	8	60	
MU3-JMA3080E1	●	8	24	8	75	
MU3-JMA3100	●	10	30	10	75	
MU3-JMA3100H	●	10	30	10	100	
MU3-JMA3120	●	12	36	12	75	
MU3-JMA3160	●	16	48	16	100	
MU3-JMA3160L155	●	16	55	16	100	
MU3-JMA3160L170M	●	16	70	16	150	
MU3-JMA3160L180M	●	16	80	16	150	
MU3-JMA3200	●	20	50	20	100	
MU3-JMA3200L1110R	●	20	110	20	200	
MU3-JMA3200L160R	●	20	60	20	200	

MU3-JMA 3000系列切削參數

The Cutting Data For MU3-JMA 3000 Series

被加工材質
Material

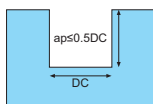
鋁合金
Aluminum

銅
Copper

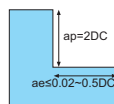
直徑 (mm) Shank	4	5	6	8	10	12	16	20
轉速 n (min)	15500	12800	10500	8000	6400	5400	3900	3200
進給速度 VF (mm/min)	開槽 Slotted	1600	1600	900	1000	1100	950	900
	側邊 Side	2300	2100	1400	1600	1700	1500	1300

切削深度 Cutting depth

開槽 Slotted



側邊 Side



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