

RAPID DRILL SERIES

SPGX 系列

設計特色

Tool Design Feature

高抗扭能力和全新表面處理的堅固鑽體，可承受更高的進給，效率更高。
High torsional resistance and new finishing strong body can sustain.

更大的容屑空間，良好的沖液角度，排屑更加流暢。
More higher feeding operation.

良好的刀片安裝角度，切削過程震動小，鑽孔精度和表面質量更優。
Excellent insert pocket design, high drilling precision and low vibration during operation.

雙螺旋內冷孔，冷卻和潤滑效果更優，鑽孔深度範圍更大。
Dual-helical coolant hole can make great drilling results.

刀片特色

Insert Feature



超細TiAlN基納米塗層，添加耐磨和耐高溫的稀有元素，綜合性能顯著提升。
TiAlN coating with high temperature resistant elements.

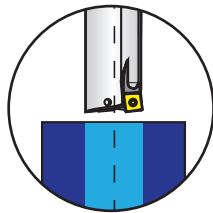
特殊的塗層處理技術，塗層和基體結合更牢固。
Special coating technique.

薄的PVD塗層，刃口鋒利。
Thin PVD coating make cutting edge sharp.

細晶體的碳化鎢基硬質合金，具有高的硬度和較強的韌性。
High hardness and high toughness.

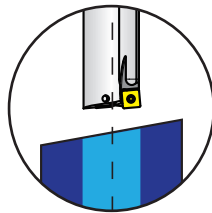
塗層後特殊的表面處理技術，去除有害應力的同時提高了表面光潔度。
High surface finishing.

鑽孔功能示意 Application



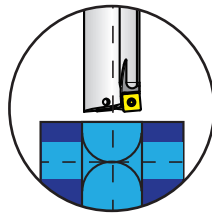
1

普通鑽孔
General Drilling



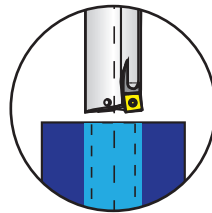
2

斜面鑽孔
Ramping Drilling



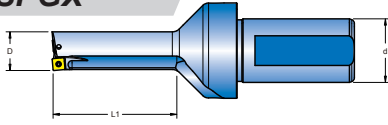
3

鑽交叉孔
Intersect Drilling



4

擴孔
Broach

SPGX

 捨棄式快速鑽頭
 SPGX Indexable rapid drill


RAPID DRILL SERIES

產品型號 Model No	在庫 Stock	寸法 Dimension (mm)			刀片 Insert	螺絲 Screw	旗型板手 Wrench	價格 Price
		D	L1	d				
13SPGX-3D-25		13	39	25	SP □□ 0502	CS20	T-6	
14SPGX-3D-25		14	42	25				
15SPGX-3D-25		15	45	25				
16SPGX-3D-25		16	48	25	SP □□ 0602	CS22	T-7	
17SPGX-3D-25		17	51	25				
18SPGX-3D-25		18	54	25				
19SPGX-3D-25		19	57	25				
20SPGX-3D-32	●	20	60	32				
21SPGX-3D-32		21	63	32	SP □□ 07T3	CS25	T-8	
22SPGX-3D-32		22	66	32				
23SPGX-3D-32	●	23	69	32				
24SPGX-3D-32	●	24	72	32				
25SPGX-3D-32	●	25	75	32				
26SPGX-3D-32		26	78	32				
27SPGX-3D-32		27	81	32				
28SPGX-3D-32		28	84	32	SP □□ 0904	CS35	T-15	
29SPGX-3D-32		29	87	32				
30SPGX-3D-32		30	90	32				
31SPGX-3D-32		31	93	32				
32SPGX-3D-32	●	32	96	32				
33SPGX-3D-32		33	99	32				
34SPGX-3D-32		34	102	32	SP □□ 1104	CS40	T-15	
35SPGX-3D-32		35	105	32				
36SPGX-3D-32		36	108	32				
37SPGX-3D-32		37	111	32				
38SPGX-3D-32		38	114	32				
39SPGX-3D-32		39	117	32				
40SPGX-3D-32		40	120	32				
41SPGX-3D-32		41	123	32	SP □□ 1405			
42SPGX-3D-32		42	126	32				
43SPGX-3D-40		43	129	40				
44SPGX-3D-40		44	132	40				
45SPGX-3D-40		45	135	40				
46SPGX-3D-40		46	138	40				
47SPGX-3D-40		47	141	40				
48SPGX-3D-40		48	144	40				
49SPGX-3D-40		49	147	40				
50SPGX-3D-40		50	150	40				

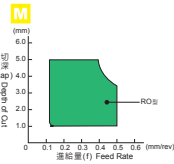
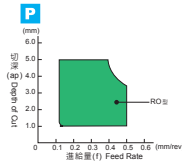
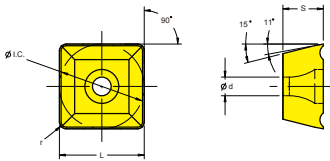


刀片資料
 SP □□ 0502 □□ / SP □□ 0602 □□ / SP □□ 07T3 □□ / SP □□ 0904 □□ ▶ 參考 AH、174 頁
 Insert Detail
 SP □□ 0502 □□ / SP □□ 0602 □□ / SP □□ 07T3 □□ / SP □□ 0904 □□ ▶ Ref.Page-AH,174

RAPID DRILL SERIES 推薦切削條件表 Recommended cutting condition

被削材 Work material	vc 切削速度 vc Cutting Speed	Feed(aspect ratio=3D) Feed(m/rev)depending on drill Dia.(mm)					
		12~16	17~23	24~29	30~42	43~60	
P 碳鋼 Carbon Steel	60-150-180	0.04~0.08	0.04~0.08	0.04~0.08	0.04~0.08	0.04~0.08	
	130-190-250						
	80-140-200	0.04~0.10	0.04~0.12	0.05~0.16	0.08~0.18	0.10~0.22	
	合金鋼 Alloy Steel	60-150-180	0.04~0.10	0.04~0.10	0.04~0.12	0.04~0.14	0.04~0.14
		90-150-200	0.06~0.12	0.06~0.14	0.06~0.14	0.06~0.16	0.06~0.16
		50-100-150	0.04~0.10	0.06~0.12	0.08~0.16	0.08~0.18	0.08~0.22
50-100-160		0.04~0.18	0.06~0.12	0.08~0.18	0.08~0.18	0.08~0.22	
30-70-120		0.04~0.12	0.06~0.14	0.08~0.17	0.08~0.17	0.08~0.20	
M 不鏽鋼 Stainless Steel	40-90-150	0.04~0.10	0.04~0.12	0.04~0.12	0.04~0.12	0.04~0.12	
		0.04~0.10	0.06~0.12	0.06~0.14	0.06~0.16	0.06~0.20	
	60-100-160	0.04~0.10	0.04~0.12	0.04~0.12	0.04~0.12	0.04~0.12	
		0.04~0.10	0.04~0.12	0.06~0.14	0.06~0.14	0.06~0.14	
K 鑄鐵 Cast Iron	150-190-250	0.04~0.10	0.05~0.14	0.06~0.18	0.10~0.22	0.10~0.26	
	100-150-200	0.04~0.10	0.04~0.12	0.04~0.14	0.05~0.16	0.05~0.18	

SPGT 刀片
SPGT Insert



形狀 Shape	型號 Model No	尺寸 Dimension					塗層硬質合金 Carbide Coated							Cermet 氮化鈾 W35					
		半徑 R	L	I.C	S	d	P	P	P	P	M	M	K		N				
RO 中切削 Medium	SPGT050204-RO	0.4	5	5	2.38	2.2													
	SPGT060204-RO	0.4	6	6	2.38	2.6													
	SPGT07T308-RO	0.8	7.94	7.94	3.97	2.8													
	SPGT090408-RO	0.8	9.8	9.8	4.3	4.2													

- 標準庫存。
- Standard Stocks



■ 特徵、用途 Characteristics and Applications

■ 受力均衡設計 Design

- 加工時的切屑阻力通過中心和外周刃均衡分布，而且使相互的位置系統最佳化，可進行穩定的孔加工。
- Cutting resistance during machining is balanced between central and peripheral inserts, and the relative position of each insert are optimised to provide stable drilling.

■ 優異的切屑處理 Excellent Chip Management

Excellent Chip Management

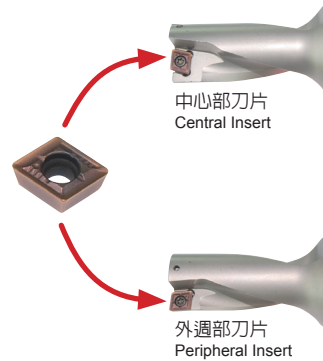
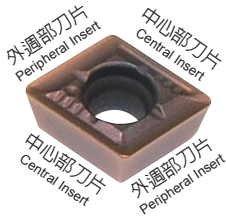
- 在切屑槽中央部分形成的『切屑控制溝槽』，可有效控制切屑流出方向，按不同用途開始用 3 個種類的斷屑槽，在各種各樣的被削材和加工條件下，明顯減少了切屑產生的問題。
- A "chip control groove" in the centre of the breaker allows the direction of chip evacuation to be controlled. Three separate purpose-designed breakers drastically reduce chip troubles with a variety of different work materials in a variety of different conditions.

類型 Series	L 型 L Type	G 型 G Type	H 型 H Type
特徵 Feature	低速進給、切屑處理用 Low Feed / Chip Management	通用 General Purpose	刃尖強化型 Strong Edge Type

■ 使用 4 個刀尖，降低成本 Economical, Four-Cornered Insert

Economical, Four-Cornered Insert

- 中心刃、外周刃兼用刀片的设计，可使用內刃 2 個刀尖，外刃 2 個刀尖的共 4 個刀尖。
- Inserts can be used in either central or peripheral positions, with two corners for each position - a total of four corners.



■ 實現加工的多樣性 Versatile Tool for a Variety of Machining Applications

Versatile Tool for a Variety of Machining Applications

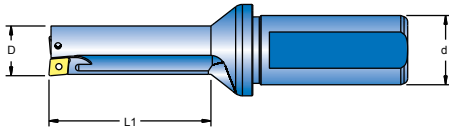
- 刀體進行了特殊硬化表面處理，提高了耐久性，在擴孔和手搖繅絲加工、外徑車削、內徑鏜孔等多種用途中可長時間穩定使用。
- A special hard surface treatment gives added durability, allowing stable, long-term drilling in a variety of applications including hole widening, spot facing, external turning, and internal boring.

■ 採用新材質 CEP300/CEK300 實現長壽命 New CEP300/CEK300 Grades Extend Tool Life

New CEP300/CEK300 Grades Extend Tool Life

EDX 2D

捨棄式快速鑽頭
EDX Indexable rapid drill



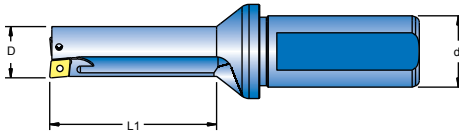
產品型號 Model No	在庫 Stock	寸法 Dimension (mm)			刀片 Insert	零件 Parts		價格 Price
		D	L1	d		螺絲 Screw	旗型板手 Wrench	
EDX130D2S25	●	13.0	29.0	25	ED □□ 042004	CS18	T-6	
EDX135D2S25	●	13.5	30.0	25				
EDX140D2S25	●	14.0	31.0	25				
EDX145D2S25	●	14.5	32.0	25				
EDX150D2S25	●	15.0	33.0	25				
EDX155D2S25	●	15.5	34.0	25	ED □□ 052504	CS20	T-6	
EDX160D2S25	●	16.0	35.0	25				
EDX165D2S25	●	16.5	36.0	25				
EDX170D2S25	●	17.0	37.0	25				
EDX175D2S25	●	17.5	38.0	25				
EDX180D2S25	●	18.0	39.0	25				

● Limited sales for some areas






EDX 3D

捨棄式快速鑽頭
EDX Indexable rapid drill



RAPID DRILL SERIES

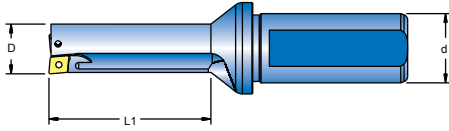
產品型號 Model No	在庫 Stock	寸法 Dimension (mm)			刀片 Insert 	零件 Parts		價格 Price
		D	L1	d		螺絲 Screw 	旗型板手 Wrench 	
EDX130D3S25	●	13.0	42.0	25	ED□□ 042004	CS18	T-6	
EDX135D3S25	●	13.5	43.5	25				
EDX140D3S25	●	14.0	45.0	25				
EDX145D3S25	●	14.5	46.5	25				
EDX150D3S25	●	15.0	48.0	25				
EDX155D3S25	●	15.5	49.5	25	ED□□ 052504	CS20	T-6	
EDX160D3S25	●	16.0	51.0	25				
EDX165D3S25	●	16.5	52.5	25				
EDX170D3S25	●	17.0	54.0	25				
EDX175D3S25	●	17.5	55.0	25				
EDX180D3S25	●	18.0	57.0	25				

● Limited sales for some areas



EDX 4D

捨棄式快速鑽頭
EDX Indexable rapid drill



產品型號 Model No	在庫 Stock	寸法 Dimension (mm)			刀片 Insert	零件 Parts		價格 Price
		D	L1	d		螺絲 Screw	旗型板手 Wrench	
EDX130D4S25	●	13.0	55.0	25	ED □□ 042004	CS18	T-6	
EDX135D4S25	●	13.5	57.0	25				
EDX140D4S25	●	14.0	59.0	25				
EDX145D4S25	●	14.5	61.0	25				
EDX150D4S25	●	15.0	63.0	25				
EDX155D4S25	●	15.5	65.0	25	ED □□ 052504	CS20	T-6	
EDX160D4S25	●	16.0	67.0	25				
EDX165D4S25	●	16.5	69.0	25				
EDX170D4S25	●	17.0	71.0	25				
EDX175D4S25	●	17.5	73.0	25				
EDX180D4S25	●	18.0	75.0	25				

● Limited sales for some areas



推薦切削條件表 Recommended cutting condition

被削材 Work material		P			M	K
		軟鋼 (SS400) (Mild Steel)	炭素鋼 (S45C) (Carbon Alloy Steel)	合金鋼 (SCM400) (Alloy Steel)	不鏽鋼 (SUS304) (Stainless Steel)	鑄鐵 (FC250) (Cast Iron)
12~18 Diameter(mm)	V(2D / 3D)	100-150-200	80-120-160	80-120-160	90-120-150	90-120-150
	V(4D)	100-140-200	60-80-120	80-100-120	80-110-140	110-140-160
	f	0.05-0.08-0.10	0.06-0.11-0.18	0.06-0.11-0.17	0.06-0.11-0.18	0.09-0.20-0.32

◆ (V=m/min, f=mm/刀) (下限值-推薦值-上限值) (Min.-Optimum-Max.)

◆ 工具回轉速度 (N)=[1000×切削速度 (V)]÷[3.14×工具直徑 (D)]

◆ 總進給 (F)=[每刃進給 (f)×工具刃數 (Z)×工具回轉速度 (N)]

◆ 使用快速鑽頭盡量由高壓中心出水，以增加刀片壽命及排屑良好。

◆ 使用在 CNC 車床時刀具中心點及機械主軸中心盡量平行。


◆ CNC 車床使用如須擴孔，刀片外刃必須和刀塔移動角度平行。

◆ Draining hi-pressure coolant thru spindle center while using the high speed drill will help extending inserts life and improving chip evacuation.

◆ While using CNC lathe, The cutting center point must parallel the spindle center of the machine.

◆ Hole widening by CNC lathe, the peripheral insert must parallel the moving angle of the tool turret.

推薦刀片材質表 Recommended Grade of Insert

型號 Model No	P	P _M	P _M	K	K	K _M	P	P _M	K _N	寸法 R	圖解 Fig	刀片 Insert
	CEP100	CEP200	CEP300	CEK200	CEK300	CEK310	CEZ330	CEZ350	H1			
EDXT042004-L			●		●					0.4	1	
EDXT042004-G			●		●					0.4	1	
EDXT042004-H			●		●					0.4	1	
EDXT052504-L			●		●					0.4	1	
EDXT052504-G			●		●					0.4	1	
EDXT052504-H			●		●					0.4	1	

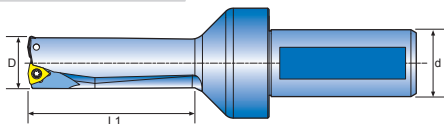
◆ 末尾 L: 輕切削 (Light) G: 範圍型 (General) H: 重切削 (Heavy)

● Limited sales for some areas



WCMX 2D

捨棄式快速鑽頭
WCMX Indexable rapid drill

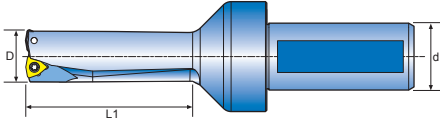


產品型號 Model No	在庫 Stock	寸法 Dimension (mm)			刀片 Insert	零件 Parts		價格 Price
		D	L1(D×2)	d		螺絲 Screw	旗型板手 Wrench	
15WCMX-2D-25	●	15	30	25	WC □□ 0302 □□	CS25	T-8	
16WCMX-2D-25	●	16	32					
17WCMX-2D-25	●	17	34					
18WCMX-2D-25	●	18	36					
19WCMX-2D-25	●	19	38					
20WCMX-2D-32	●	20	40	32	WC □□ 0402 □□	CS25	T-8	
21WCMX-2D-32	●	21	42					
22WCMX-2D-32	●	22	44					
23WCMX-2D-32	●	23	46					
24WCMX-2D-32	●	24	48					
25WCMX-2D-32	●	25	50		WC □□ 0503 □□	CS30	T-10	
26WCMX-2D-32	●	26	52					
27WCMX-2D-32	●	27	54					
28WCMX-2D-32	●	28	56					
29WCMX-2D-32	●	29	58					
30WCMX-2D-32	●	30	60	32	WC □□ 06T3 □□	CS35W	T-10	
31WCMX-2D-32	●	31	62					
32WCMX-2D-32	●	32	64					
33WCMX-2D-32	●	33	66					
34WCMX-2D-32	●	34	68					
35WCMX-2D-32	●	35	70					
36WCMX-2D-32	●	36	72					
37WCMX-2D-32	●	37	74					
38WCMX-2D-32	●	38	76					
39WCMX-2D-32	●	39	78					
40WCMX-2D-40	●	40	80	40	WC □□ 0804 □□	CS40	T-15	
41WCMX-2D-40	●	41	82					
42WCMX-2D-40	●	42	84					
43WCMX-2D-40	●	43	86					
44WCMX-2D-40	●	44	88					
45WCMX-2D-40	●	45	90					
46WCMX-2D-40	●	46	92					
47WCMX-2D-40	●	47	94					
48WCMX-2D-40	●	48	96					
49WCMX-2D-40	●	49	98					
50WCMX-2D-40	●	50	100					




WCMX 3D

捨棄式快速鑽頭

WCMX Indexable rapid drill

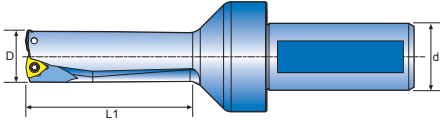


RAPID DRILL SERIES

產品型號 Model No	在庫 Stock	寸法 Dimension (mm)			刀片 Insert 	零件 Parts		價格 Price				
		D	L1(D×3)	d		螺絲 Screw 	旗型板手 Wrench 					
15WCMX-3D-25	●	15	45	25	WC □□ 0302 □□	CS25	T-8					
16WCMX-3D-25	●	16	48									
17WCMX-3D-25	●	17	51									
18WCMX-3D-25	●	18	54									
19WCMX-3D-25	●	19	57									
20WCMX-3D-32	●	20	60	32	WC □□ 0402 □□	CS25	T-8					
21WCMX-3D-32	●	21	63									
22WCMX-3D-32	●	22	66									
23WCMX-3D-32	●	23	69									
24WCMX-3D-32	●	24	72									
25WCMX-3D-32	●	25	75									
26WCMX-3D-32	●	26	78									
27WCMX-3D-32	●	27	81		WC □□ 0503 □□	CS30	T-10					
28WCMX-3D-32	●	28	84									
29WCMX-3D-32	●	29	87									
30WCMX-3D-32	●	30	90									
31WCMX-3D-32	●	31	93									
32WCMX-3D-32	●	32	96		40	WC □□ 06T3 □□	CS35W	T-10				
33WCMX-3D-32	●	33	99									
34WCMX-3D-32	●	34	102									
35WCMX-3D-32	●	35	105									
36WCMX-3D-32	●	36	108									
37WCMX-3D-32	●	37	111									
38WCMX-3D-32	●	38	114									
39WCMX-3D-32	●	39	117									
40WCMX-3D-32	●	40	120									
41WCMX-3D-32	●	41	123									
42WCMX-3D-32	●	42	126									
43WCMX-3D-40	●	43	129	40					WC □□ 0804 □□	CS40	T-15	
44WCMX-3D-40	●	44	132									
45WCMX-3D-40	●	45	135									
46WCMX-3D-40	●	46	138									
47WCMX-3D-40	●	47	141									
48WCMX-3D-40	●	48	144									
49WCMX-3D-40	●	49	147									
50WCMX-3D-40	●	50	150									
51WCMX-3D-40	●	51	153									
52WCMX-3D-40	●	52	156									
53WCMX-3D-40	●	53	159									
54WCMX-3D-40	●	54	162									
55WCMX-3D-40	●	55	165									
56WCMX-3D-40	●	56	168									
57WCMX-3D-40	●	57	171									
58WCMX-3D-40	●	58	174									
59WCMX-3D-40	●	59	177									
60WCMX-3D-40	●	60	180									



WCMX 4D



捨棄式快速鑽頭
WCMX Indexable rapid drill



產品型號 Model No	在庫 Stock	寸法 Dimension (mm)			刀片 Insert	零件 Parts		價格 Price
		D	L1(D×4)	d		螺絲 Screw	旗型板手 Wrench	
17WCMX-4D-25	●	17	68	25	WC □□ 0302 □□	CS25	T-8	
18WCMX-4D-25	●	18	72					
19WCMX-4D-25	●	19	76					
20WCMX-4D-32	●	20	80					
21WCMX-4D-32	●	21	84					
22WCMX-4D-32	●	22	88	32	WC □□ 0402 □□	CS25	T-8	
23WCMX-4D-32	●	23	92					
24WCMX-4D-32	●	24	96					
25WCMX-4D-32	●	25	100					
26WCMX-4D-32	●	26	104					
27WCMX-4D-32	●	27	108	32	WC □□ 0503 □□	CS30	T-10	
28WCMX-4D-32	●	28	112					
29WCMX-4D-32	●	29	116					
30WCMX-4D-32	●	30	120					
31WCMX-4D-32	●	31	124					
32WCMX-4D-32	●	32	128	32	WC □□ 06T3 □□	CS35W	T-10	
33WCMX-4D-32	●	33	132					
34WCMX-4D-32	●	34	136					
35WCMX-4D-32	●	35	140					
36WCMX-4D-32	●	36	144					
37WCMX-4D-32	●	37	148					
38WCMX-4D-32	●	38	152					
39WCMX-4D-32	●	39	156					
40WCMX-4D-32	●	40	160					
41WCMX-4D-32	●	41	164					
42WCMX-4D-32	●	42	168	40	WC □□ 0804 □□	CS40	T-15	
43WCMX-4D-40	●	43	172					
44WCMX-4D-40	●	44	176					
45WCMX-4D-40	●	45	180					

推薦切削條件表 Recommended cutting condition

被削材 Work material		P			M	K
		軟鋼 (SS400) (Mild Steel)	炭素鋼 (S45C) (Carbon Alloy Steel)	合金鋼 (SCM400) (Alloy Steel)	不鏽鋼 (SUS304) (Stainless Steel)	鑄鐵 (FC250) (Cast Iron)
12~14.5	V(2D / 3D)	100-150-200	60-100-160	80-120-160	80-100-120	80-120-160
	V(4D)	100-140-200	60-80-120	80-100-120	80-110-140	110-140-160
	f	0.04-0.06-0.10	0.04-0.06-0.10	0.04-0.06-0.10	0.04-0.07-0.10	0.04-0.07-0.10
15~22.5	V(2D / 3D)	100-150-200	60-100-160	80-120-160	80-100-120	80-120-160
	V(4D)	100-140-200	60-80-120	80-100-120	80-110-140	110-140-160
	f	0.04-0.07-0.10	0.04-0.09-0.12	0.06-0.08-0.10	0.04-0.07-0.10	0.06-0.07-0.10
23~34	V(2D / 3D)	100-150-200	60-100-160	80-120-160	80-100-120	80-120-160
	V(4D)	100-140-200	60-80-120	80-100-120	80-110-140	110-140-160
	f	0.04-0.08-0.10	0.08-0.12-0.14	0.06-0.09-0.12	0.04-0.08-0.10	0.04-0.10-0.14
35~48	V(2D / 3D)	100-150-200	60-100-160	80-120-160	80-100-120	80-120-160
	V(4D)	100-140-200	60-80-120	80-100-120	80-110-140	110-140-160
	f	0.04-0.10-0.12	0.08-0.15-0.18	0.06-0.10-0.14	0.04-0.10-0.12	0.06-0.10-0.14
49~60	V(2D / 3D)	100-150-200	60-100-160	80-120-160	80-100-120	80-120-160
	V(4D)	100-140-200	60-80-120	80-100-120	80-110-140	110-140-160
	f	0.04-0.08-0.10	0.08-0.12-0.14	0.06-0.09-0.12	0.04-0.08-0.10	0.06-0.10-0.14

- ◆ (V=m/min, f=mm/刃) (下限值—推薦值—上限值) (Min.-Optimum-Max.)
- ◆ 工具回轉速度 (N)=[1000×切削速度 (V)]÷[3.14×工具直徑 (D)]
- ◆ 總進給 (F)=[每刃進給 (f)×工具刃數 (Z)×工具回轉速度 (N)]

- ◆ 使用快速鑽頭盡量由高壓中心出水，以增加刀片壽命及排屑良好。
- ◆ 使用在 CNC 車床時刀具中心點及機械主軸中心盡量平行。
- ◆ CNC 車床使用如須擴孔，刀片外刃必須和刀塔移動角度平行。
- ◆ Draining hi-pressure coolant thru spindle center while using the high speed drill will help extending inserts life and improving chip evacuation.
- ◆ While using CNC lathe, The cutting center point must parallel the spindle center of the machine.
- ◆ Hole widening by CNC lathe, the peripheral insert must parallel the moving angle of the tool turret.

推薦刀片材質表 Recommended Grade of Insert

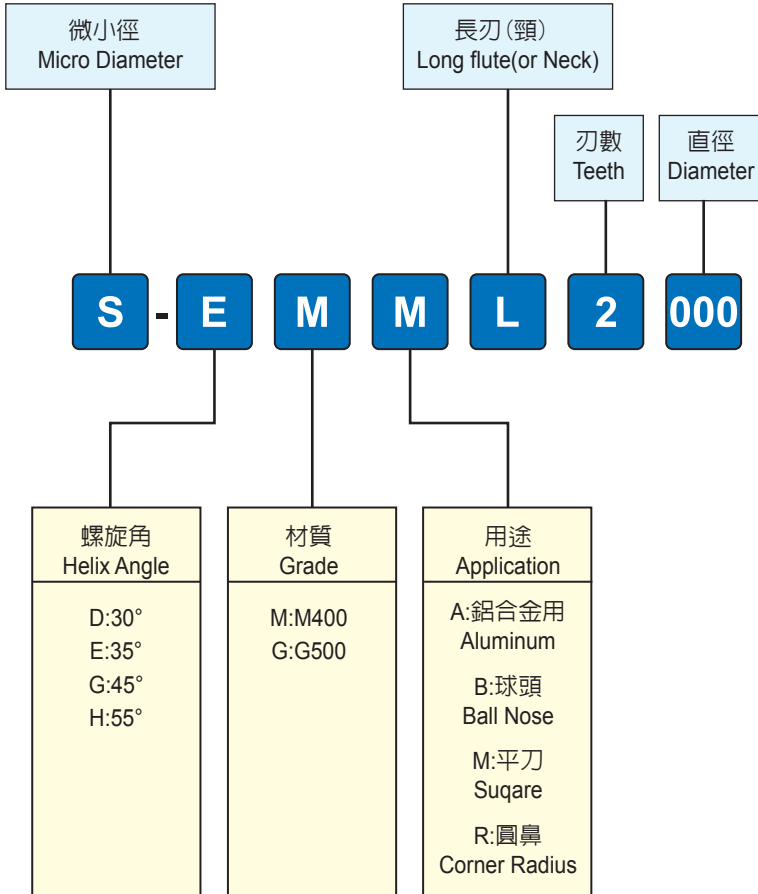
型號 Model No	P	P _M	P _M	K	K	K _M	P	P _M	K _N	寸法 R	圖解 Fig	刀片 Insert
	ACP100	CEP300	ACP300	ACK200	CEK300	ACK310	ACZ330	ACZ350	H1			
WCMX030208FN		●			●	●	●			0.8	1	
WCMX040208FN		●			●	●	●			0.8	1	
WCMT050308FN		●			●	●	●			0.8	1	
WCMT06T308FN		●			●	●	●			0.8	1	
WCMT080412FN		●					●			1.2	1	











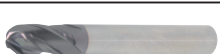









CARBIDE END MILL SERIES

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

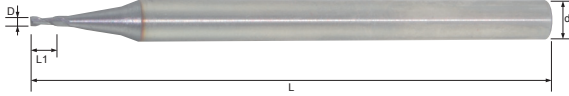


產品 Product	型號 Model No.	規格 Description			柄徑 (D) Shank Dia. (mm)								頁碼 Page		
		MG	0.5 μm	CO 10%	3	4	6	8	10	12	16	20		25	
	S-EMM 2000	HRC <55	35°	Altin		●									187
	S-EMML 2000-00	HRC <55	35°	Altin		●									188
	EMM 2000	HRC <55	35°	Altin		●	●	●	●	●	●	●	●		189
	EMM 4000	HRC <55	35°	Altin		●	●	●	●	●	●	●	●		190
	EMML 4000	HRC <55	35°	Altin		●	●	●	●	●	●	●	●		191
	GMM 4000	HRC <55	45°	Altin		●	●	●	●	●	●	●	●		192
	GMM 6000	HRC <55	45°	Altin			●	●	●	●	●	●	●		193
	S-EMB 2000	HRC <55	35°	Altin		●									194
	EMB 2000-00	HRC <55	35°	Altin		●	●								195
	EMB 2000	HRC <55	35°	Altin		●	●	●	●	●	●	●	●		196
	EMB 4000	HRC <55	35°	Altin		●	●	●	●	●	●	●	●		197
	DMR 2000-00-00L2	HRC <55	30°	Altin		●	●	●	●	●					198
	DMR 2000	HRC <55	30°	Altin		●	●	●	●	●					199
	HMA 2000	55°				●	●	●	●	●	●	●	●		200
	HMA 3000	55°				●	●	●	●	●	●	●	●		201
	GMA 3000	45°					●	●	●	●	●	●	●		202

S-EMM 2000

極細微粒碳化鎢 Micro Grain Carbide

(2)



CARBIDE END MILL



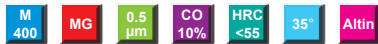
產品型號 Model No	在庫 Stock	直徑 (D) Diameter	刃長 (L1) Flute Length	全長 (L) O.A.L.	柄徑 (d) Shank Dia.	價格 Price
S-EMM2002	●	0.2	0.4	50	4	
S-EMM2003	●	0.3	0.6	50	4	
S-EMM2004	●	0.4	0.8	50	4	
S-EMM2005	●	0.5	1.0	50	4	
S-EMM2006	●	0.6	1.2	50	4	
S-EMM2007	●	0.7	1.4	50	4	
S-EMM2008	●	0.8	1.6	50	4	
S-EMM2009	●	0.9	1.8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

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

CARBIDE END MILL

S-EMML 2000-00

極細微粒碳化鎢 Micro Grain Carbide (3)

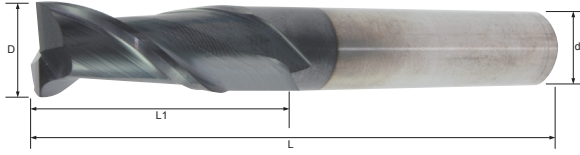


產品型號 Model No	在庫 Stock	直徑 (D) Diameter	刃長 (L1) Flute Length	有效長 (L2) E.L.	全長 (L) O.A.L.	柄徑 (d) Shank Dia.	價格 Price
S-EMML2004-02	●	0.4	0.6	2	50	4	
S-EMML2004-04	●	0.4	0.6	4	50	4	
S-EMML2005-02	●	0.5	0.8	2	50	4	
S-EMML2005-04	●	0.5	0.8	4	50	4	
S-EMML2005-06	●	0.5	0.8	6	50	4	
S-EMML2006-02	●	0.6	1.0	2	50	4	
S-EMML2006-04	●	0.6	1.0	4	50	4	
S-EMML2006-06	●	0.6	1.0	6	50	4	
S-EMML2006-08	●	0.6	1.0	8	50	4	
S-EMML2008-03	●	0.8	1.2	3	50	4	
S-EMML2008-04	●	0.8	1.2	4	50	4	
S-EMML2008-06	●	0.8	1.2	6	50	4	
S-EMML2008-08	●	0.8	1.2	8	50	4	
S-EMML2008-10	●	0.8	1.2	10	50	4	
S-EMML2010-04	●	1.0	1.2	4	50	4	
S-EMML2010-06	●	1.0	1.2	6	50	4	
S-EMML2010-08	●	1.0	1.2	8	50	4	
S-EMML2010-10	●	1.0	1.2	10	50	4	
S-EMML2010-12	●	1.0	1.2	12	50	4	
S-EMML2015-04	●	1.5	1.7	4	50	4	
S-EMML2015-06	●	1.5	1.7	6	50	4	
S-EMML2015-08	●	1.5	1.7	8	50	4	
S-EMML2015-10	●	1.5	1.7	10	50	4	
S-EMML2015-12	●	1.5	1.7	12	50	4	
S-EMML2020-06	●	2.0	2.2	6	50	4	
S-EMML2020-08	●	2.0	2.2	8	50	4	
S-EMML2020-10	●	2.0	2.2	10	50	4	
S-EMML2020-12	●	2.0	2.2	12	50	4	
S-EMML2020-14	●	2.0	2.2	14	50	4	
S-EMML2020-16	●	2.0	2.2	16	75	4	
S-EMML2030-08	●	3.0	3.2	8	50	4	
S-EMML2030-10	●	3.0	3.2	10	50	4	
S-EMML2030-12	●	3.0	3.2	12	50	4	
S-EMML2030-14	●	3.0	3.2	14	50	4	
S-EMML2030-16	●	3.0	3.2	16	75	4	
S-EMML2030-20	●	3.0	3.2	20	75	4	

EMM 2000

極細微粒碳化鎢 Micro Grain Carbide

(4,6)



CARBIDE END MILL

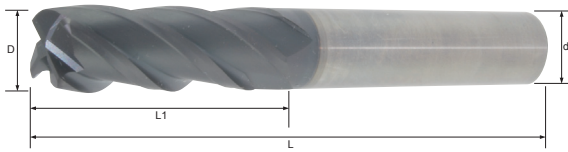
產品型號 Model No	在庫 Stock	直徑 (D) Diameter	刃長 (L1) Flute Length	全長 (L) O.A.L.	柄徑 (d) Shank Dia.	價格 Price
EMM2010	●	1.0	3	50	4	
EMM2015	●	1.5	4.5	50	4	
EMM2020	●	2.0	6	50	4	
EMM2025	●	2.5	7	50	4	
EMM2030	●	3.0	8	50	4	
EMM2040	●	4.0	11	50	4	
EMM2040-75	●	4.0	11	75	4	
EMM2050	●	5.0	13	50	6	
EMM2050-75	●	5.0	13	75	6	
EMM2060	●	6.0	15	50	6	
EMM2060-75	●	6.0	15	75	6	
EMM2060-100	●	6.0	15	100	6	
EMM2080	●	8.0	20	60	8	
EMM2080-75	●	8.0	20	75	8	
EMM2080-100	●	8.0	20	100	8	
EMM2080-150	●	8.0	20	150	8	
EMM2100	●	10.0	25	75	10	
EMM2100-100	●	10.0	25	100	10	
EMM2100-150	●	10.0	25	150	10	
EMM2120	●	12.0	30	75	12	
EMM2120-100	●	12.0	30	100	12	
EMM2120-150	●	12.0	30	150	12	
EMM2160	●	16.0	40	100	16	
EMM2160-150	●	16.0	40	150	16	
EMM2160-200	●	16.0	40	200	16	
EMM2200	●	20.0	40	100	20	
EMM2200-150	●	20.0	40	150	20	
EMM2200-200	●	20.0	40	200	20	

4刃銑刀
4 Flutes End Mill

CARBIDE END MILL

EMM 4000

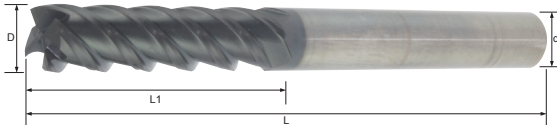
極細微粒碳化鎢 Micro Grain Carbide (9,11)



產品型號 Model No	在庫 Stock	直徑 (D) Diameter	刃長 (L1) Flute Length	全長 (L) O.A.L.	柄徑 (d) Shank Dia.	價格 Price
EMM4010	●	1.0	3	50	4	
EMM4015	●	1.5	4.5	50	4	
EMM4020	●	2.0	6	50	4	
EMM4025	●	2.5	7	50	4	
EMM4030	●	3.0	8	50	4	
EMM4030-75	●	3.0	8	75	4	
EMM4035	●	3.5	10	50	4	
EMM4040	●	4.0	11	50	4	
EMM4040-75	●	4.0	11	75	4	
EMM4040-100	●	4.0	11	100	6	
EMM4050	●	5.0	13	50	6	
EMM4050-75	●	5.0	13	75	6	
EMM4050-100	●	5.0	13	100	6	
EMM4060	●	6.0	15	50	6	
EMM4060-75	●	6.0	15	75	6	
EMM4060-100	●	6.0	15	100	6	
EMM4080	●	8.0	20	60	8	
EMM4080-75	●	8.0	20	75	8	
EMM4080-100	●	8.0	20	100	8	
EMM4080-150	●	8.0	20	150	8	
EMM4100	●	10.0	25	75	10	
EMM4100-100	●	10.0	25	100	10	
EMM4100-150	●	10.0	25	150	10	
EMM4120	●	12.0	30	75	12	
EMM4120-100	●	12.0	30	100	12	
EMM4120-150	●	12.0	30	150	12	
EMM4160	●	16.0	40	100	16	
EMM4160-150	●	16.0	40	150	16	
EMM4160-200	●	16.0	40	200	16	
EMM4200	●	20.0	40	100	20	
EMM4200-150	●	20.0	40	150	20	
EMM4200-200	●	20.0	40	200	20	

EMML 4000

極細微粒碳化鎢 Micro Grain Carbide (10)



CARBIDE END MILL



產品型號 Model No	在庫 Stock	直徑 (D) Diameter	刃長 (L1) Flute Length	全長 (L) O.A.L.	柄徑 (d) Shank Dia.	價格 Price
EMML4040	●	4.0	20	75	4	
EMML4050	●	5.0	25	75	6	
EMML4060	●	6.0	25	75	6	
EMML4060-100	●	6.0	30	100	6	
EMML4080	●	8.0	30	75	8	
EMML4080-100	●	8.0	35	100	8	
EMML4080-150	●	8.0	40	150	8	
EMML4100	●	10.0	40	100	10	
EMML4100-150	●	10.0	50	150	10	
EMML4120	●	12.0	45	100	12	
EMML4120-150	●	12.0	50	150	12	
EMML4160	●	16.0	70	150	16	
EMML4200	●	20.0	80	150	20	

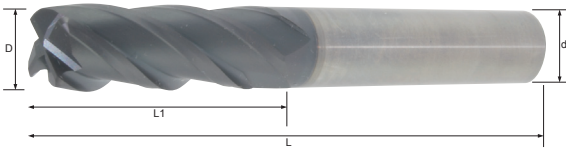


4刃銑刀
4 Flutes End Mill

CARBIDE END MILL

GMM 4000

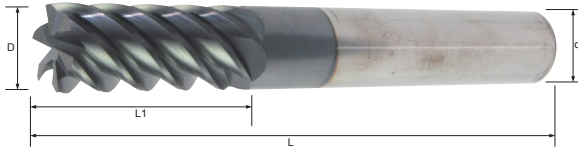
極細微粒碳化鎢 Micro Grain Carbide (13)



產品型號 Model No	在庫 Stock	直徑 (D) Diameter	刃長 (L1) Flute Length	全長 (L) O.A.L.	柄徑 (d) Shank Dia.	價格 Price
GMM4010	●	1.0	3	50	4	
GMM4015	●	1.5	4.5	50	4	
GMM4020	●	2.0	6	50	4	
GMM4025	●	2.5	7	50	4	
GMM4030	●	3.0	8	50	4	
GMM4035	●	3.5	9	50	4	
GMM4040	●	4.0	11	50	4	
GMM4045	●	4.5	13	50	6	
GMM4050	●	5.0	13	50	6	
GMM4055	●	5.5	13	50	6	
GMM4060	●	6.0	15	50	6	
GMM4065	●	6.5	17	60	8	
GMM4070	●	7.0	17	60	8	
GMM4075	●	7.5	17	60	8	
GMM4080	●	8.0	20	60	8	
GMM4085	●	8.5	23	75	10	
GMM4090	●	9.0	23	75	10	
GMM4095	●	9.5	23	75	10	
GMM4100	●	10.0	25	75	10	
GMM4105	●	10.5	25	75	12	
GMM4110	●	11.0	28	75	12	
GMM4115	●	11.5	28	75	12	
GMM4120	●	12.0	30	75	12	
GMM4130	●	13.0	33	100	16	
GMM4140	●	14.0	35	100	16	
GMM4150	●	15.0	38	100	16	
GMM4160	●	16.0	40	100	16	
GMM4170	●	17.0	40	100	20	
GMM4180	●	18.0	40	100	20	
GMM4190	●	19.0	40	100	20	
GMM4200	●	20.0	40	100	20	
GMM4220	●	22.0	40	100	25	
GMM4250	●	25.0	40	100	25	

GMM 6000

極細微粒碳化鎢 Micro Grain Carbide (18)



CARBIDE END MILL



產品型號 Model No	在庫 Stock	直徑 (D) Diameter	刃長 (L1) Flute Length	全長 (L) O.A.L.	柄徑 (d) Shank Dia.	價格 Price
GMM6045	●	4.5	11	50	6	
GMM6050	●	5.0	13	50	6	
GMM6060	●	6.0	15	50	6	
GMM6080	●	8.0	20	60	8	
GMM6100	●	10.0	25	75	10	
GMM6120	●	12.0	30	75	12	
GMM6160	●	16.0	40	100	16	
GMM6200	●	20.0	40	100	20	
GMM6250	●	25.0	45	100	25	

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

CARBIDE END MILL

S-EMB 2000

極細微粒碳化鎢 Micro Grain Carbide (27)

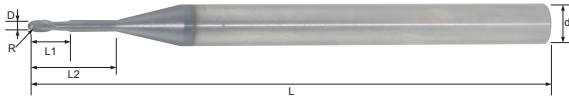


產品型號 Model No	在庫 Stock	R 徑 (1/2D) Radius	刃長 (L1) Flute Length	全長 (L) O.A.L.	柄徑 (d) Shank Dia.	價格 Price
S-EMB2003	●	R 0.15	0.6	50	4	
S-EMB2004	●	R 0.20	0.8	50	4	
S-EMB2005	●	R 0.25	1.0	50	4	
S-EMB2006	●	R 0.30	1.2	50	4	
S-EMB2007	●	R 0.35	1.4	50	4	
S-EMB2008	●	R 0.40	1.6	50	4	
S-EMB2009	●	R 0.45	1.8	50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

EMB 2000-00

極細微粒碳化鎢 Micro Grain Carbide

(29)



CARBIDE END MILL

產品型號 Model No	在庫 Stock	R 徑 (1/2D) Radius	刃長 (L1) Flute Length	有效長 (L2) E.L.	全長 (L) O.A.L.	柄徑 (d) Shank Dia.	價格 Price
EMB2004-02	●	R 0.20	0.6	2	50	4	
EMB2004-04	●	R 0.20	0.6	4	50	4	
EMB2005-02	●	R 0.25	0.8	2	50	4	
EMB2005-04	●	R 0.25	0.8	4	50	4	
EMB2005-06	●	R 0.25	0.8	6	50	4	
EMB2006-02	●	R 0.30	1.0	2	50	4	
EMB2006-04	●	R 0.30	1.0	4	50	4	
EMB2006-06	●	R 0.30	1.0	6	50	4	
EMB2006-08	●	R 0.30	1.0	8	50	4	
EMB2008-03	●	R 0.40	1.2	3	50	4	
EMB2008-04	●	R 0.40	1.2	4	50	4	
EMB2008-06	●	R 0.40	1.2	6	50	4	
EMB2008-08	●	R 0.40	1.2	8	50	4	
EMB2008-10	●	R 0.40	1.2	10	50	4	
EMB2010-04	●	R 0.50	1.2	4	50	4	
EMB2010-06	●	R 0.50	1.2	6	50	4	
EMB2010-08	●	R 0.50	1.2	8	50	4	
EMB2010-10	●	R 0.50	1.2	10	50	4	
EMB2010-12	●	R 0.50	1.2	12	50	4	
EMB2015-04	●	R 0.75	1.7	4	50	4	
EMB2015-06	●	R 0.75	1.7	6	50	4	
EMB2015-08	●	R 0.75	1.7	8	50	4	
EMB2015-10	●	R 0.75	1.7	10	50	4	
EMB2015-12	●	R 0.75	1.7	12	50	4	
EMB2020-06	●	R 1.00	2.2	6	50	4	
EMB2020-08	●	R 1.00	2.2	8	50	4	
EMB2020-10	●	R 1.00	2.2	10	50	4	
EMB2020-12	●	R 1.00	2.2	12	50	4	
EMB2020-14	●	R 1.00	2.2	14	50	4	
EMB2020-16	●	R 1.00	2.2	16	75	4	
EMB2030-08	●	R 1.50	3.2	8	50	4	
EMB2030-10	●	R 1.50	3.2	10	50	4	
EMB2030-12	●	R 1.50	3.2	12	50	4	
EMB2030-14	●	R 1.50	3.2	14	50	4	
EMB2030-16	●	R 1.50	3.2	16	75	4	
EMB2030-20	●	R 1.50	3.2	20	75	4	
EMB2040-12	●	R 2.00	4.2	12	50	6	
EMB2040-14	●	R 2.00	4.2	14	50	6	
EMB2040-16	●	R 2.00	4.2	16	75	6	
EMB2040-20	●	R 2.00	4.2	20	75	6	
EMB2040-25	●	R 2.00	4.2	25	75	6	

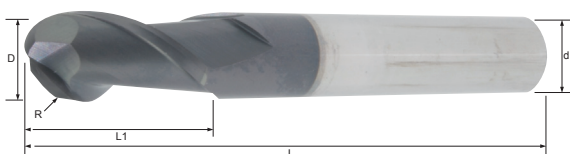
2刃球頭立銼刀
2 Flutes Ball Nose End Mill

CARBIDE END MILL

EMB 2000

極細微粒碳化鎢 Micro Grain Carbide

(31,32)

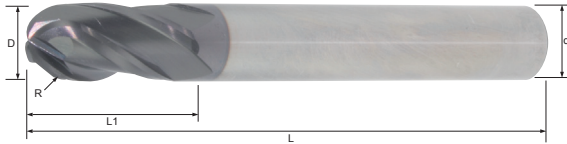


產品型號 Model No	在庫 Stock	R 徑 (1/2D) Radius	刃長 (L1) Flute Length	全長 (L) O.A.L.	柄徑 (d) Shank Dia.	價格 Price
EMB2010	●	R 0.50	2.0	50	4	
EMB2015	●	R 0.75	3.0	50	4	
EMB2020	●	R 1.00	4.0	50	4	
EMB2025	●	R 1.25	5.0	50	4	
EMB2030	●	R 1.50	6.0	50	4	
EMB2035	●	R 1.75	7.0	50	4	
EMB2035-75	●	R 1.75	7.0	75	4	
EMB2040	●	R 2.00	8.0	50	4	
EMB2040-75	●	R 2.00	8.0	75	4	
EMB2040-100	●	R 2.00	8.0	100	4	
EMB2020-6d	●	R1.00	4.0	50	6	
EMB2025-6d	●	R1.25	5.0	50	6	
EMB2030-6d	●	R1.50	6.0	50	6	
EMB2035-6d	●	R 1.75	7.0	50	6	
EMB2035-75-6d	●	R 1.75	7.0	75	6	
EMB2040-6d	●	R 2.00	8.0	50	6	
EMB2040-75-6d	●	R 2.00	8.0	75	6	
EMB2040-100-6d	●	R 2.00	8.0	100	6	
EMB2050	●	R 2.50	10.0	50	6	
EMB2050-75	●	R 2.50	10.0	75	6	
EMB2050-100	●	R 2.50	10.0	100	6	
EMB2060	●	R 3.00	12.0	50	6	
EMB2060-75	●	R 3.00	12.0	75	6	
EMB2060-100	●	R 3.00	12.0	100	6	
EMB2060-150	●	R 3.00	12.0	150	6	
EMB2080	●	R 4.00	16.0	60	8	
EMB2080-75	●	R 4.00	16.0	75	8	
EMB2080-100	●	R 4.00	16.0	100	8	
EMB2080-150	●	R 4.00	16.0	150	8	
EMB2080-200	●	R 4.00	16.0	200	8	
EMB2100	●	R 5.00	20.0	75	10	
EMB2100-100	●	R 5.00	20.0	100	10	
EMB2100-150	●	R 5.00	20.0	150	10	
EMB2100-200	●	R 5.00	20.0	200	10	
EMB2120	●	R 6.00	24.0	75	12	
EMB2120-100	●	R 6.00	24.0	100	12	
EMB2120-150	●	R 6.00	24.0	150	12	
EMB2120-200	●	R 6.00	24.0	200	12	
EMB2160	●	R 8.00	30.0	100	16	
EMB2160-150	●	R 8.00	30.0	150	16	
EMB2160-200	●	R 8.00	30.0	200	16	
EMB2200	●	R 10.00	30.0	100	20	
EMB2200-150	●	R 10.00	30.0	150	20	
EMB2200-200	●	R 10.00	30.0	200	20	

EMB 4000

極細微粒碳化鎢 Micro Grain Carbide (33)

CARBIDE END MILL



產品型號 Model No	在庫 Stock	R 徑 (1/2D) Radius	刃長 (L1) Flute Length	全長 (L) O.A.L.	柄徑 (d) Shank Dia.	價格 Price
EMB4010	●	R 0.50	2.0	50	4	
EMB4015	●	R 0.75	3.0	50	4	
EMB4020	●	R 1.00	4.0	50	4	
EMB4030	●	R 1.50	6.0	50	4	
EMB4035	●	R 1.75	7.0	50	4	
EMB4040	●	R 2.00	8.0	50	4	
EMB4050	●	R 2.50	10.0	50	6	
EMB4060	●	R 3.00	12.0	50	6	
EMB4080	●	R 4.00	16.0	60	8	
EMB4100	●	R 5.00	20.0	75	10	
EMB4120	●	R 6.00	24.0	75	12	
EMB4160	●	R 8.00	30.0	100	16	
EMB4200	●	R 10.0	30.0	100	20	



圓鼻2刃立銼刀

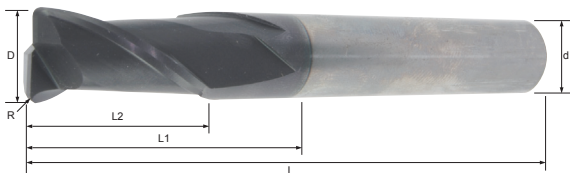
Flute 2 Flutes Corner Radius End Mill

CARBIDE END MILL

DMR 2000-00-00L2

極細微粒碳化鎢 Micro Grain Carbide

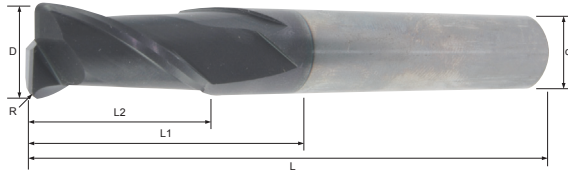
(38)



產品型號 Model No	在庫 Stock	刃徑 (D) F.D.	R 徑 Radius	刃長 (L2) Flute Length	有效長 (L1) E.L.	全長 (L) O.A.L.	柄徑 (d) Shank Dia.	價格 Price
DMR2030-02-03L2	●	3	0.2	3	10	50	3	
DMR2030-05-03L2	●	3	0.5	3	10	50	3	
DMR2040-02-04L2	●	4	0.2	4	12	50	4	
DMR2040-05-04L2	●	4	0.5	4	12	50	4	
DMR2060-02-06L2	●	6	0.2	6	15	50	6	
DMR2060-05-06L2	●	6	0.5	6	15	50	6	
DMR2060-10-06L2	●	6	1.0	6	15	50	6	
DMR2080-05-10L2	●	8	0.5	10	20	60	8	
DMR2080-10-10L2	●	8	1.0	10	20	60	8	
DMR2100-05-12L2	●	10	0.5	12	25	75	10	
DMR2100-10-12L2	●	10	1.0	12	25	75	10	
DMR2120-05-14L2	●	12	0.5	14	30	75	12	
DMR2120-10-14L2	●	12	1.0	14	30	75	12	

DMR 2000

極細微粒碳化鎢 Micro Grain Carbide (41,42)



CARBIDE END MILL

產品型號 Model No	在庫 Stock	刃徑 (D) F.D.	R 徑 Radius	刃長 (L2) Flute Length	全長 (L) O.A.L.	柄徑 (d) Shank Dia.	價格 Price
DMR2010-02	●	1.0	0.2	2	50	4	
DMR2015-02	●	1.5	0.2	3	50	4	
DMR2020-02	●	2.0	0.2	4	50	4	
DMR2020-05	●	2.0	0.5	4	50	4	
DMR2025-02	●	2.5	0.2	5	50	4	
DMR2030-02	●	3.0	0.2	6	50	4	
DMR2030-02-75	●	3.0	0.2	6	75	4	
DMR2030-05	●	3.0	0.5	6	50	4	
DMR2030-05-75	●	3.0	0.5	6	75	4	
DMR2030-10-75	●	3.0	1.0	6	75	4	
DMR2040-02	●	4.0	0.2	8	50	4	
DMR2040-02-75	●	4.0	0.2	8	75	4	
DMR2040-02-100	●	4.0	0.2	8	100	6	
DMR2040-05	●	4.0	0.5	8	50	4	
DMR2040-05-75	●	4.0	0.5	8	75	4	
DMR2040-05-100	●	4.0	0.5	8	100	6	
DMR2040-10-75	●	4.0	1.0	8	75	4	
DMR2040-10-100	●	4.0	1.0	8	100	6	
DMR2060-02	●	6.0	0.2	12	50	6	
DMR2060-02-75	●	6.0	0.2	12	75	6	
DMR2060-02-100	●	6.0	0.2	12	100	6	
DMR2060-05	●	6.0	0.5	12	50	6	
DMR2060-05-75	●	6.0	0.5	12	75	6	
DMR2060-05-100	●	6.0	0.5	12	100	6	
DMR2060-10	●	6.0	1.0	12	50	6	
DMR2060-10-75	●	6.0	1.0	12	75	6	
DMR2060-10-100	●	6.0	1.0	12	100	6	
DMR2080-05	●	8.0	0.5	16	60	8	
DMR2080-05-75	●	8.0	0.5	16	75	8	
DMR2080-05-100	●	8.0	0.5	16	100	8	
DMR2080-10	●	8.0	1.0	16	60	8	
DMR2080-10-75	●	8.0	1.0	16	75	8	
DMR2080-10-100	●	8.0	1.0	16	100	8	
DMR2100-05	●	10.0	0.5	20	75	10	
DMR2100-05-100	●	10.0	0.5	20	100	10	
DMR2100-10	●	10.0	1.0	20	75	10	
DMR2100-10-100	●	10.0	1.0	20	100	10	
DMR2120-05	●	12.0	0.5	24	75	12	
DMR2120-05-100	●	12.0	0.5	24	100	12	
DMR2120-10	●	12.0	1.0	24	75	12	
DMR2120-10-100	●	12.0	1.0	24	100	12	

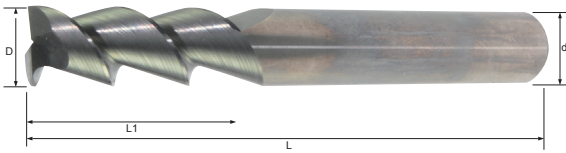
鋁合金專用2刃立銑刀

For Aluminum Alloy 2 Flutes Corner Radius End Mill

CARBIDE END MILL

HMA 2000

極細微粒碳化鎢 Micro Grain Carbide (60,62)

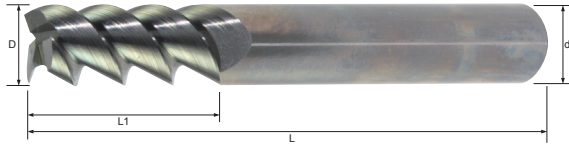


產品型號 Model No	在庫 Stock	刃徑 (D) F.D.	刃長 (L1) Flute Length	全長 (L) O.A.L.	柄徑 (d) Shank Dia.	價格 Price
HMA2010	●	1.0	3.0	50	4	
HMA2015	●	1.5	4.5	50	4	
HMA2020	●	2.0	6.0	50	4	
HMA2025	●	2.5	7.0	50	4	
HMA2030	●	3.0	8.0	50	4	
HMA2030-75	●	3.0	12.0	75	6	
HMA2030-100	●	3.0	15.0	100	6	
HMA2040	●	4.0	11.0	50	4	
HMA2040-75	●	4.0	16.0	75	6	
HMA2040-100	●	4.0	20.0	100	6	
HMA2050	●	5.0	13.0	50	6	
HMA2050-75	●	5.0	20.0	75	6	
HMA2050-100	●	5.0	25.0	100	6	
HMA2060	●	6.0	15.0	50	6	
HMA2060-75	●	6.0	25.0	75	6	
HMA2060-100	●	6.0	30.0	100	6	
HMA2070	●	7.0	18.0	60	8	
HMA2080	●	8.0	20.0	60	8	
HMA2080-75	●	8.0	30.0	75	8	
HMA2080-100	●	8.0	35.0	100	8	
HMA2080-150	●	8.0	40.0	150	8	
HMA2090	●	9.0	23.0	75	10	
HMA2100	●	10.0	25.0	75	10	
HMA2100-100	●	10.0	40.0	100	10	
HMA2100-150	●	10.0	50.0	150	10	
HMA2110	●	11.0	28.0	75	12	
HMA2120	●	12.0	30.0	75	12	
HMA2120-100	●	12.0	45.0	100	12	
HMA2120-150	●	12.0	50.0	150	12	
HMA2160	●	16.0	40.0	100	16	
HMA2160-150	●	16.0	70.0	150	16	
HMA2200	●	22.0	40.0	100	20	
HMA2200-150	●	22.0	80.0	150	20	

HMA 3000

極細微粒碳化鎢 Micro Grain Carbide (60,62)

CARBIDE END MILL



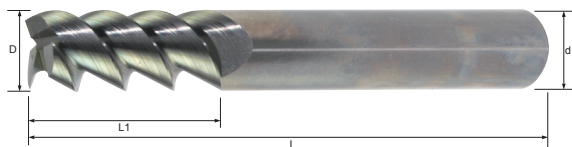
產品型號 Model No	在庫 Stock	刃徑 (D) F.D.	刃長 (L1) Flute Length	全長 (L) O.A.L.	柄徑 (d) Shank Dia.	價格 Price
HMA3010	●	1.0	3.0	50	4	
HMA3015	●	1.5	4.5	50	4	
HMA3020	●	2.0	6.0	50	4	
HMA3025	●	2.5	7.0	50	4	
HMA3030	●	3.0	8.0	50	4	
HMA3040	●	4.0	11.0	50	4	
HMA3050	●	5.0	13.0	50	6	
HMA3060	●	6.0	15.0	50	6	
HMA3070	●	7.0	18.0	60	8	
HMA3080	●	8.0	20.0	60	8	
HMA3090	●	9.0	23.0	75	10	
HMA3100	●	10.0	25.0	75	10	
HMA3110	●	11.0	28.0	75	12	
HMA3120	●	12.0	30.0	75	12	
HMA3160	●	16.0	40.0	100	16	
HMA3200	●	20.0	40.0	100	20	

CARBIDE END MILL

GMA 3000

極細微粒碳化鎢 Micro Grain Carbide

(63)



產品型號 Model No	在庫 Stock	刃徑 (D) F.D.	刃長 (L1) Flute Length	全長 (L) O.A.L.	柄徑 (d) Shank Dia.	價格 Price
GMA3030	●	3.0	12	50	6	
GMA3030-100	●	3.0	15	100	6	
GMA3040	●	4.0	16	50	6	
GMA3040-100	●	4.0	20	100	6	
GMA3050	●	5.0	20	50	6	
GMA3050-100	●	5.0	25	100	6	
GMA3060	●	6.0	25	50	6	
GMA3060-100	●	6.0	30	100	6	
GMA3080	●	8.0	30	75	8	
GMA3080-100	●	8.0	35	100	8	
GMA3080-150	●	8.0	40	150	8	
GMA3100	●	10.0	40	100	10	
GMA3100-150	●	10.0	50	150	10	
GMA3120-100	●	12.0	45	100	12	
GMA3120-150	●	12.0	50	150	12	
GMA3160	●	16.0	70	150	16	
GMA3200	●	20.0	80	150	20	