

# M520 極細鎢鋼銑刀 系列

Ultra Carbide End Mills Series

合金鋼

調質鋼  $\leq 55\text{HRC}$

不銹鋼

鈦合金 / 鎳基合金

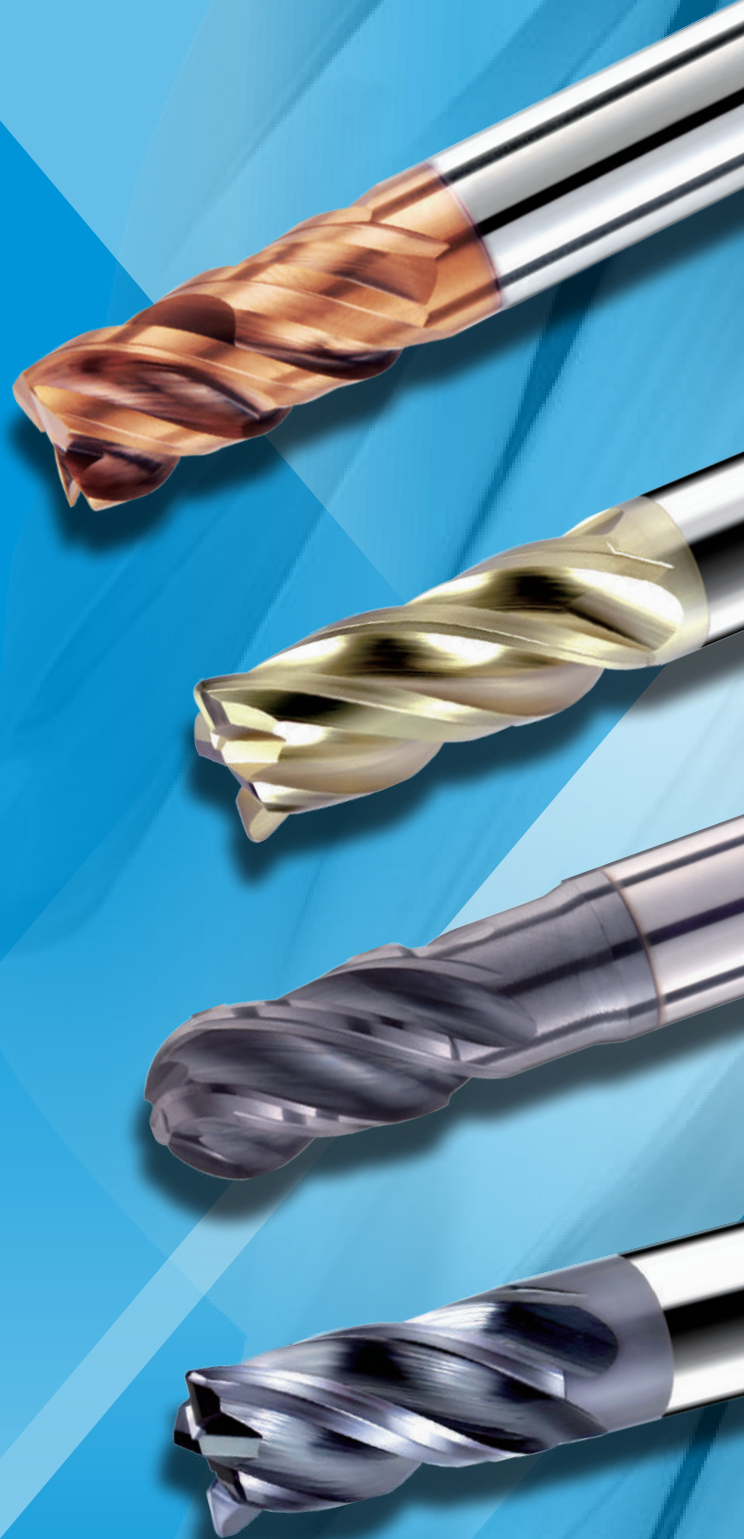
For Difficult-to-Cut materials (high-temp alloy), stainless steel (300 series), alloy steel and hardened steel ( $\leq 55\text{HRC}$ ) machining.

模具加工專用刀具。












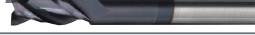


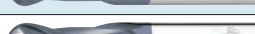
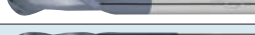
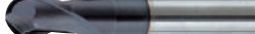


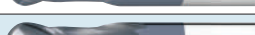

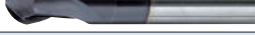
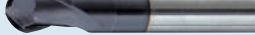



Cutting tools for mold processing

包裝盒蓋 / 藍色

Color of M520 packaging box / Blue





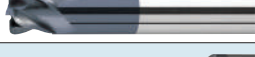
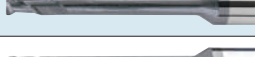

















## 產品選擇表 Product Selection Table

刀型 Type	刃數 Flute	型號 Model Number	產品類別 Product Classification	形狀 Appearance	尺寸 Size	頁數 Page
M520 極細鎢鋼銑刀系列 M520 Carbide End Mills Series 應用於鋼材(≦55HRC)加工 For Alloy Steel (≦55HRC) Machining.						
平刀 Square	二刃 2 Flutes	MESS20000A	微小徑型 -Micro Dia.		Ø0.2 ~ Ø3.0	98
		MESM20000A			Ø0.2 ~ Ø0.9	98
		MESM20000A			Ø1 ~ Ø4	99
		MES20000A			Ø3 ~ Ø25	100
	四刃 4 Flutes	MESS40000A			Ø1 ~ Ø3	101
		MESM40000A			Ø1 ~ Ø4	101
		MES40000A			Ø3 ~ Ø25	102
短刃平刀 Short Flute Square	二刃 2 Flutes	MESD20000A	短刃型 -Short Flute		Ø1 ~ Ø12	103
	四刃 4 Flutes	MESD40000A	短刃型 -Short Flute		Ø3 ~ Ø12	104
長柄平刀 Long Shank Square	二刃 2 Flutes	MESDL20000A	短刃型 -Short Flute		Ø1 ~ Ø12	103
	四刃 4 Flutes	MESDL40000A	短刃型 -Short Flute		Ø3 ~ Ø12	104
長頸平刀 Long Neck Square	二刃 2 Flutes	MEN20000000A			Ø1 ~ Ø4	105
球刀 Ball	二刃 2 Flutes	MEBS20000A	微小徑型 -Micro Dia.		0.05R ~ 1.5R	106
		MEBM20000A			0.05R ~ 0.5R	106
		MEB(M)20000A			0.5R ~ 10.0R	107
	四刃 4 Flutes	MEB(M)40000A			1R ~ 8R	108
短刃球刀 Short Flute Ball	二刃 2 Flutes	MEBDM20000A	短刃型 -Short Flute		0.15R~1.50R	109
		MEBD20000A	短刃型 -Short Flute		1R ~ 6R	109
長柄球刀 Long Shank Ball	二刃 2 Flutes	MEBML20000A			1R ~ 2R	110
		MEBL20000A			1R ~ 10R	110
	二刃 2 Flutes	MEBDML20000A	短刃型 -Short Flute		0.5R ~ 1.5R	111
		MEBDL20000A	短刃型 -Short Flute		1R ~ 6R	111
長頸球刀 Long Neck Ball	二刃 2 Flutes	MEBN20000000A			0.5R ~ 2.0R	112
	四刃 4 Flutes	MEBN40000000A			0.5R ~ 2.0R	113
圓鼻刀 Corner Radius	二刃 2 Flutes	MECR(M)2000000A			Ø1 ~ Ø12	114
	四刃 4 Flutes	MECR(M)4000000A			Ø1 ~ Ø12	115

碳素鋼 Carbon Steels (<20HRC)	合金鋼 Alloy Steels (20~30HRC)	合金鋼 Alloy Steels (30~45HRC)	調質鋼 Hardened Steels (45~55HRC)	調質鋼 Hardened Steels (55~65HRC)	不銹鋼 Stainless Steels	鑄鐵 Cast Iron	鋁合金 Aluminum Alloys	銅 Copper	非金屬 Non-metal	高溫合金 High-Temp Alloys	冷卻方式推薦 Suitable Coolant	加工型態 Type of Finishing			
												A	B	C	D
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加工型態 Type of Finishing → A=超精銑 Bright Finishing B=精銑 Finishing C=中銑 Semi Finishing D=粗銑 Roughing

## 產品選擇表 Product Selection Table

刀型 Type	刃數 Flute	型號 Model Number	產品類別 Product Classification	形狀 Appearance	尺寸 Size	頁數 Page
M520 極細鎢鋼銼刀系列 M520 Carbide End Mills Series 應用於鋼材(≦55HRC)加工 For Alloy Steel (≦55HRC) Machining.						
圓鼻刀 Corner Radius	四刃 4 Flutes	MECD(M)4000000A	短刃型 -Short Flute		Ø1 ~ Ø12	116
長柄圓鼻刀 Long Shsnk Corner Radius	三刃 3 Flutes	MECDL300000A	短刃型 -Short Flute		Ø3 ~ Ø12	117
	四刃 4 Flutes	MECDL400000A	短刃型 -Short Flute		Ø3 ~ Ø12	118
長頸圓鼻刀 Long Neck Corner Radius	二刃 2 Flutes	MECRN2000000000A			Ø1 ~ Ø6	119 ~ 121
	四刃 4 Flutes	MECRN4000000000A			Ø1 ~ Ø6	122 ~ 124
高精度刀具 High Tolerance End Mills						
球刀 Ball	二刃 2 Flutes	MEBYS200000A	高精度型 -High Tolerance		0.1R ~ 1.5R	125
		MEBYM200000A	高精度型 -High Tolerance		0.1R ~ 2R	125
		MEBY200000A	高精度型 -High Tolerance		1R ~ 3R	126
	四刃 4 Flutes	MEBYM400000A	高精度型 -High Tolerance		1R ~ 2R	127
		MEBY400000A	高精度型 -High Tolerance		3R	127
圓鼻刀 Corner Radius	二刃 2 Flutes	MECYM20000000A	高精度型 -High Tolerance		Ø1 ~ Ø3	128
		MECY20000000A	高精度型 -High Tolerance		Ø4 ~ Ø6	128
	四刃 4 Flutes	MECY40000000A	高精度型 -High Tolerance		Ø3 ~ Ø6	129
應用於鋼材(≦50HRC)加工 For Alloy Steel (≦50HRC) Machining. 不等距 & 圓溝設計 Unequal Flute Spacing Angle & Circular Flute.						
平刀 Square	四刃 4 Flutes	MEHU(M)400000A	高導型 -High Helix		Ø3 ~ Ø16	130
應用於鋼材(≦55HRC)加工 For Alloy Steel (≦55HRC) Machining. 強力重切削 Heavy Duty Cutting.						
平刀 Square	三刃 3 Flutes	MEHHD300000A	短刃型 -Short Flute		Ø3 ~ Ø12	131
		MEHHD400000A	短刃型 -Short Flute		Ø3 ~ Ø12	131
	四刃 4 Flutes	MEHH400000A			Ø3 ~ Ø20	132
圓鼻刀 Corner Radius	四刃 4 Flutes	MEHHCR40000000A			Ø3 ~ Ø20	133
應用於鋼材(≦55HRC)加工 For Alloy Steel (≦55HRC) Machining. 高剛性銼刀 High Rigidity End Mill (不等距 & 雙心徑設計 Unequal Flute Spacing Angle & Duo Core Dia.)						
平刀 Square	四刃 4 Flutes	MEP400000A	標準型 -Standard		Ø4 ~ Ø12	134
		MEP40000-C0000A	倒角型 -Chamfering		Ø4 ~ Ø12	134
		MEP40000-R0000A	R角型 -Corner Radius		Ø4 ~ Ø12	135

碳素鋼 Carbon Steels (<20HRC)	合金鋼 Alloy Steels (20~30HRC)	合金鋼 Alloy Steels (30~45HRC)	調質鋼 Hardened Steels (45~55HRC)	調質鋼 Hardened Steels (55~65HRC)	不銹鋼 Stainless Steels	鑄鐵 Cast Iron	鋁合金 Aluminum Alloys	銅 Copper	非金屬 Non-metal	高溫合金 High-Temp Alloys	冷卻方式推薦 Suitable Coolant	加工型態 Type of Finishing			
												A	B	C	D
○	○	○	○	○	○	◎	—	—	—	○	乾式 / 油霧 (Dry / Mist)	○	◎	◎	○
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加工型態 Type of Finishing → A=超精銑 Bright Finishing B=精銑 Finishing C=中銑 Semi Finishing D=粗銑 Roughing

產品選擇表 Product Selection Table

刀具 Type	刃數 Flute	型號 Model Number	產品類別 Product Classification	形狀 Appearance	尺寸 Size	頁數 Page
<b>應用於鋼材(≦55HRC)高效率加工 For Alloy Steel (≦55HRC) Machining with High Efficiency. 不等距 &amp; 不等螺旋角抗震設計 Chattering is decreased with unequal flute spacing angle &amp; nonequivalent helix angle.</b>						
平刀 Square	四刃 4 Flutes	MEV40000A	高效型 -High Performance		Ø3 ~ Ø12	138
圓鼻刀 Corner Radius	四刃 4 Flutes	MEVC4000000A	高效型 -High Performance		Ø3 ~ Ø20	139
球刀 Ball	四刃 4 Flutes	MEVB40000A	高效型 -High Performance		2.5R ~ 10R	140
<b>應用於高硬材質(≦55HRC)加工 For High Hardened Steel (≦55HRC) Machining.</b>						
平刀 Square	六刃 6 Flutes	MED60000A	高硬型 -High Hardness		Ø6 ~ Ø25	141
長刃平刀 Long Flute Square	六刃 6 Flutes	MEDF60000A	高硬型 -High Hardness		Ø6 ~ Ø25	142
<b>應用於不銹鋼加工(圓溝設計) For Stainless Steel (300 Series) Machining. (Circular Flute)</b>						
平刀 Square	四刃 4 Flutes	MEMH(M)40000A	高導型 -High Helix		Ø1 ~ 25	143
<b>應用於高溫合金、不銹鋼高效率加工 For High Temp Alloys and Stainless Steel (300 Series) Machining with High Efficiency. 不等距 &amp; 不等螺旋角抗震設計 Chattering is decreased with unequal flute spacing angle &amp; nonequivalent helix angle.</b>						
平刀 Square	四刃 4 Flutes	METV40000A	高效型 -High Performance		Ø3 ~ Ø12	136
圓鼻刀 Corner Radius	四刃 4 Flutes	METVC4000000A	高效型 -High Performance		Ø3 ~ Ø12	137

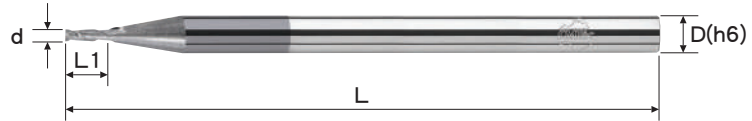
碳素鋼 Carbon Steels (<20HRC)	合金鋼 Alloy Steels (20-30HRC)	合金鋼 Alloy Steels (30-45HRC)	調質鋼 Hardened Steels (45-55HRC)	調質鋼 Hardened Steels (55-65HRC)	不銹鋼 Stainless Steels	鑄鐵 Cast Iron	鋁合金 Aluminum Alloys	銅 Copper	非金屬 Non-metal	高溫合金 High-Temp Alloys	冷卻方式推薦 Suitable Coolant	加工型態 Type of Finishing			
												A	B	C	D
											乾式 / 油霧 (Dry / Mist)	—			
											乾式 / 油霧 (Dry / Mist)	—			
											乾式 / 油霧 (Dry / Mist)	—			
											乾式 / 濕式 (Dry / Wet)				—
											乾式 / 濕式 (Dry / Wet)				—
											濕式 (Wet)	—			
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											乾式 / 濕式 (Dry / Wet)	—			

加工型態 Type of Finishing → A=超精銑 Bright Finishing B=精銑 Finishing C=中銑 Semi Finishing D=粗銑 Roughing

# M520 極細鎢鋼平銑刀- 微柄/小柄型- 2刃

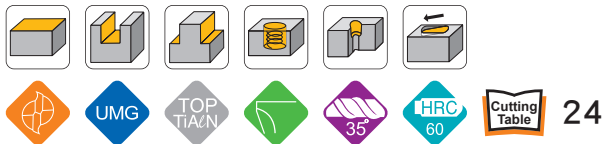
## M520 ULTRA CARBIDE END MILLS- Square Type- Micro Diameter- 2F

- MESS20000A
- MESM20000A



刃徑 d	公差 Tolerance
Φ	0 ~ -0.02

超精銑 Bright Finishing	—
精銑 Finishing	○
中銑 Semi Finishing	◎
粗銑 Roughing	○



刃徑 d	刃長 L1	全長 L	柄徑 D	刃數 F	白刀訂購編號 Uncoated Order No.	鍍膜訂購編號 Coated Order No.
0.2	0.4	50	3	2	MESS20020	MESS20020A
0.25	0.5	50	3	2	MESS20025	MESS20025A
0.3	0.6	50	3	2	MESS20030	MESS20030A
0.35	0.7	50	3	2	MESS20035	MESS20035A
0.4	0.8	50	3	2	MESS20040	MESS20040A
0.5	1.0	50	3	2	MESS20050	MESS20050A
0.6	1.5	50	3	2	MESS20060	MESS20060A
0.7	2.0	50	3	2	MESS20070	MESS20070A
0.8	2.0	50	3	2	MESS20080	MESS20080A
0.9	2.0	50	3	2	MESS20090	MESS20090A
1.0	3.0	50	3	2	MESS20100	MESS20100A
1.5	4.0	50	3	2	MESS20150	MESS20150A
2.0	5.0	50	3	2	MESS20200	MESS20200A
2.5	6.0	50	3	2	MESS20250	MESS20250A
3.0	8.0	50	3	2	MESS20300	MESS20300A
0.2	0.4	50	4	2	MESM20020	MESM20020A
0.25	0.5	50	4	2	MESM20025	MESM20025A
0.3	0.6	50	4	2	MESM20030	MESM20030A
0.35	0.7	50	4	2	MESM20035	MESM20035A
0.4	0.8	50	4	2	MESM20040	MESM20040A
0.5	1.0	50	4	2	MESM20050	MESM20050A
0.6	1.5	50	4	2	MESM20060	MESM20060A
0.7	2.0	50	4	2	MESM20070	MESM20070A
0.8	2.0	50	4	2	MESM20080	MESM20080A
0.9	2.0	50	4	2	MESM20090	MESM20090A

※ 0.2以上採攻面寬型式。  
From 0.2 and larger have flatland type.  
※ 尖角型式依需求生產。  
Sharp corner type is on request.

→ 切削條件表 P.546      → 技術資料 P.622  
Cutting Condition      Technical Data

M520 Ultra Carbide End Mills

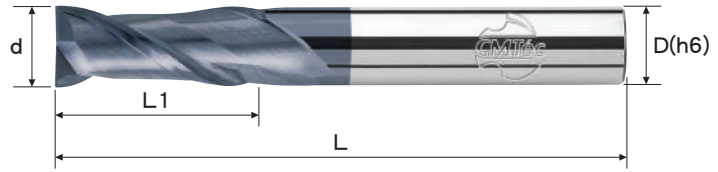
M520 極細鎢鋼銑刀系列



# M520 極細鎢鋼平銑刀- 小柄/標準型- 2刃

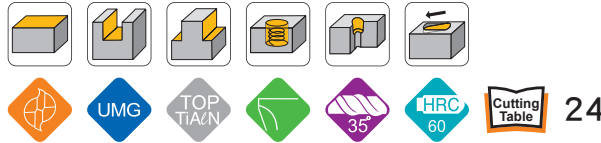
## M520 ULTRA CARBIDE END MILLS- Square Type- 2F

### · MESM20000A



刃徑 d	公差 Tolerance
$\phi < 3$	0 ~ -0.02
$3 \leq \phi \leq 10$	-0.01 ~ -0.03
$10 < \phi$	-0.01 ~ -0.04

超精銑 Bright Finishing	—
精銑 Finishing	○
中銑 Semi Finishing	◎
粗銑 Roughing	○



刃徑 d	刃長 L1	全長 L	柄徑 D	刃數 F	白刀訂購編號 Uncoated Order No.	鍍膜訂購編號 Coated Order No.
1.0	3	50	4	2	MESM20100	MESM20100A
1.5	4	50	4	2	MESM20150	MESM20150A
2.0	5	50	4	2	MESM20200	MESM20200A
2.5	6	50	4	2	MESM20250	MESM20250A
3.0	8	50	4	2	MESM20300	MESM20300A
3.5	9	50	4	2	MESM20350	MESM20350A
4.0	10	50	4	2	MESM20400	MESM20400A

※ 0.2以上採攻面寬型式。  
From 0.2 and larger have flatland type.  
※ 尖角型式依需求生產。  
Sharp corner type is on request.

→ 切削條件表 P.546 Cutting Condition  
→ 技術資料 P.622 Technical Data

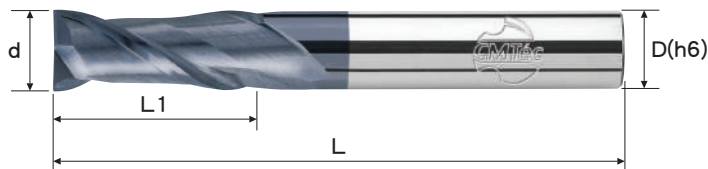
M520 Ultra Carbide End Mills

M520 極細鎢鋼銑刀系列

# M520 極細鎢鋼平銑刀- 標準型- 2刃

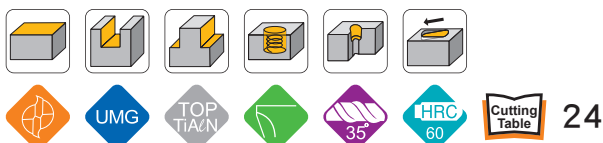
## M520 ULTRA CARBIDE END MILLS- Square Type- 2F

### · MES20000A



刃徑 d	公差 Tolerance
$\phi < 3$	0 ~ -0.02
$3 \leq \phi \leq 10$	-0.01 ~ -0.03
$10 < \phi$	-0.01 ~ -0.04

超精銑 Bright Finishing	—
精銑 Finishing	○
中銑 Semi Finishing	◎
粗銑 Roughing	○



刃徑 d	刃長 L1	全長 L	柄徑 D	刃數 F	白刀訂購編號 Uncoated Order No.	鍍膜訂購編號 Coated Order No.
3.0	8	50	6	2	MES20300	MES20300A
3.5	9	50	6	2	MES20350	MES20350A
4.0	10	50	6	2	MES20400	MES20400A
4.5	11	50	6	2	MES20450	MES20450A
5.0	13	50	6	2	MES20500	MES20500A
5.5	14	50	6	2	MES20550	MES20550A
6.0	15	50	6	2	MES20600	MES20600A
6.5	16	60	8	2	MES20650	MES20650A
7.0	18	60	8	2	MES20700	MES20700A
7.5	18	60	8	2	MES20750	MES20750A
8.0	20	60	8	2	MES20800	MES20800A
8.5	20	75	10	2	MES20850	MES20850A
9.0	22	75	10	2	MES20900	MES20900A
9.5	22	75	10	2	MES20950	MES20950A
10.0	25	75	10	2	MES21000	MES21000A
10.5	25	75	12	2	MES21050	MES21050A
11.0	25	75	12	2	MES21100	MES21100A
12.0	30	75	12	2	MES21200	MES21200A
13.0	30	75	14	2	MES2130014	MES2130014A
14.0	30	75	14	2	MES2140014	MES2140014A
15.0	35	100	16	2	MES21500	MES21500A
16.0	35	100	16	2	MES21600	MES21600A
18.0	40	100	20	2	MES21800	MES21800A
20.0	45	100	20	2	MES22000	MES22000A
25.0	45	100	25	2	MES22500	MES22500A

※ 0.2以上採攻面寬型式。  
From 0.2 and larger have flatland type.  
※ 尖角型式依需求生產。  
Sharp corner type is on request.

→ 切削條件表 P.546      → 技術資料 P.622  
Cutting Condition      Technical Data

# M520 極細鎢鋼平銑刀- 微柄/小柄型- 4刃

## M520 ULTRA CARBIDE END MILLS- Square Type- 4F

- MESS40000A
- MESM40000A



刃徑 d	公差 Tolerance
$\phi < 3$	0 ~ -0.02
$3 \leq \phi \leq 10$	-0.01 ~ -0.03
$10 < \phi$	-0.01 ~ -0.04

超精銑 Bright Finishing	○
精銑 Finishing	◎
中銑 Semi Finishing	○
粗銑 Roughing	—

刃徑 d	刃長 L1	全長 L	柄徑 D	刃數 F	白刀訂購編號 Uncoated Order No.	鍍膜訂購編號 Coated Order No.
1.0	3	50	3	4	MESS40100	MESS40100A
1.5	4	50	3	4	MESS40150	MESS40150A
2.0	5	50	3	4	MESS40200	MESS40200A
2.5	6	50	3	4	MESS40250	MESS40250A
3.0	8	50	3	4	MESS40300	MESS40300A
1.0	3	50	4	4	MESM40100	MESM40100A
1.5	4	50	4	4	MESM40150	MESM40150A
2.0	5	50	4	4	MESM40200	MESM40200A
2.5	6	50	4	4	MESM40250	MESM40250A
3.0	8	50	4	4	MESM40300	MESM40300A
3.5	9	50	4	4	MESM40350	MESM40350A
4.0	10	50	4	4	MESM40400	MESM40400A

※ 0.2以上採攻面寬型式。  
From 0.2 and larger have flatland type.  
※ 尖角型式依需求生產。  
Sharp corner type is on request.

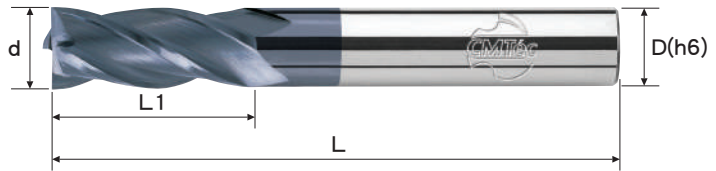
➡ 切削條件表 Cutting Condition [P.547](#)    ➡ 技術資料 Technical Data [P.622](#)

M520 M520 Ultra Carbide End Mills M520 極細鎢鋼銑刀系列

# M520 極細鎢鋼平銑刀- 標準型- 4刃

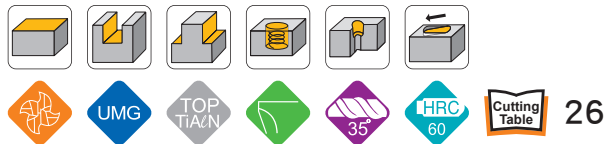
## M520 ULTRA CARBIDE END MILLS- Square Type- 4F

· MES40000A



刃徑 d	公差 Tolerance
$\phi < 3$	0 ~ -0.02
$3 \leq \phi \leq 10$	-0.01 ~ -0.03
$10 < \phi$	-0.01 ~ -0.04

超精銑 Bright Finishing	<input type="radio"/>
精銑 Finishing	<input checked="" type="radio"/>
中銑 Semi Finishing	<input type="radio"/>
粗銑 Roughing	<input type="radio"/>



刃徑 d	刃長 L1	全長 L	柄徑 D	刃數 F	白刀訂購編號 Uncoated Order No.	鍍膜訂購編號 Coated Order No.
3.0	8	50	6	4	MES40300	MES40300A
3.5	9	50	6	4	MES40350	MES40350A
4.0	10	50	6	4	MES40400	MES40400A
4.5	11	50	6	4	MES40450	MES40450A
5.0	13	50	6	4	MES40500	MES40500A
5.5	14	50	6	4	MES40550	MES40550A
6.0	15	50	6	4	MES40600	MES40600A
6.5	16	60	8	4	MES40650	MES40650A
7.0	18	60	8	4	MES40700	MES40700A
7.5	18	60	8	4	MES40750	MES40750A
8.0	20	60	8	4	MES40800	MES40800A
8.0	20	75	8	4	MES40800075L	MES40800075LA
8.5	20	75	10	4	MES40850	MES40850A
9.0	22	75	10	4	MES40900	MES40900A
9.5	22	75	10	4	MES40950	MES40950A
10.0	25	75	10	4	MES41000	MES41000A
10.5	25	75	12	4	MES41050	MES41050A
11.0	25	75	12	4	MES41100	MES41100A
11.5	25	75	12	4	MES41150	MES41150A
12.0	30	75	12	4	MES41200	MES41200A
13.0	30	75	14	4	MES4130014	MES4130014A
14.0	30	75	14	4	MES4140014	MES4140014A
15.0	35	100	16	4	MES41500	MES41500A
16.0	35	100	16	4	MES41600	MES41600A
18.0	40	100	20	4	MES41800	MES41800A
20.0	45	100	20	4	MES42000	MES42000A
25.0	45	100	25	4	MES42500	MES42500A

※ 0.2以上採攻面寬型式。  
From 0.2 and larger have flatland type.  
※ 尖角型式依需求生產。  
Sharp corner type is on request.

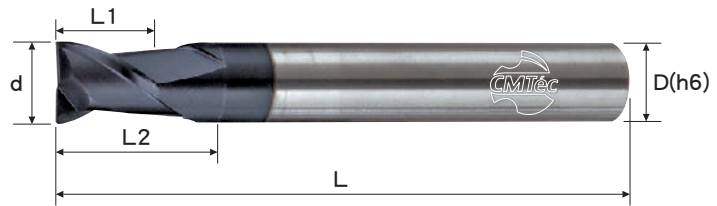
→ 切削條件表 P.547  
Cutting Condition

→ 技術資料 P.622  
Technical Data

# M520 極細鎢鋼平銑刀- 短刃型- 2刃

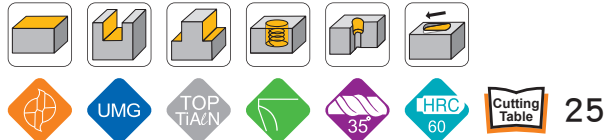
## M520 ULTRA CARBIDE END MILLS- Short Flute- Square Type- 2F

### · MESD20000A



刃徑 d	公差 Tolerance
$\phi < 3$	0 ~ -0.02
$3 \leq \phi \leq 10$	-0.01 ~ -0.03
$10 < \phi$	-0.01 ~ -0.04

超精銑 Bright Finishing	—
精銑 Finishing	○
中銑 Semi Finishing	◎
粗銑 Roughing	◎

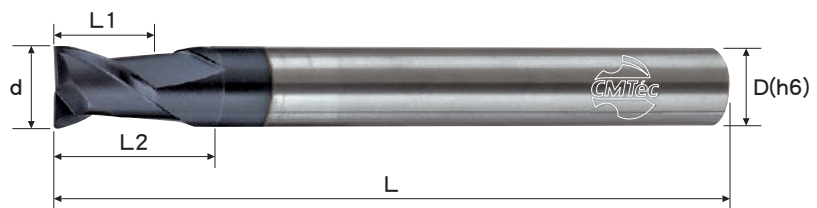


刃徑 d	刃長 L1	有效長 L2	全長 L	柄徑 D	刃數 F	鍍膜訂購編號 Coated Order No.
1.0	1	2	50	6	2	MESD20100A
2.0	2	4	50	6	2	MESD20200A
3.0	3	6	50	6	2	MESD20300A
4.0	4	8	50	6	2	MESD20400A
6.0	6	12	50	6	2	MESD20600A
8.0	8	16	60	8	2	MESD20800A
10.0	10	20	75	10	2	MESD21000A
12.0	12	24	75	12	2	MESD21200A

# M520 極細鎢鋼平銑刀- 短刃長柄型- 2刃

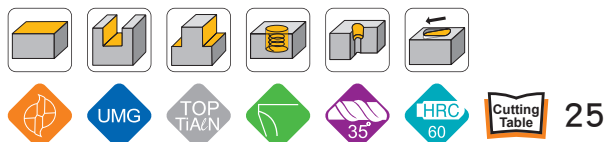
## M520 ULTRA CARBIDE END MILLS- Short Flute- Square Type- Long Shank- 2F

### · MESDL20000A



刃徑 d	公差 Tolerance
$\phi < 3$	0 ~ -0.02
$3 \leq \phi \leq 10$	-0.01 ~ -0.03
$10 < \phi$	-0.01 ~ -0.04

超精銑 Bright Finishing	—
精銑 Finishing	○
中銑 Semi Finishing	◎
粗銑 Roughing	◎

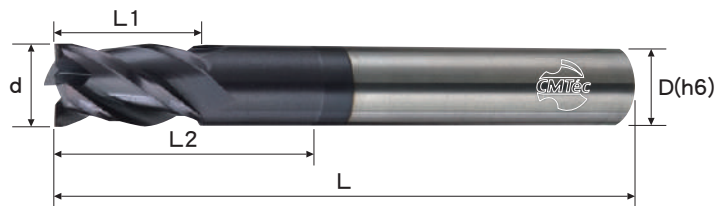


刃徑 d	刃長 L1	有效長 L2	全長 L	柄徑 D	刃數 F	鍍膜訂購編號 Coated Order No.
1.0	1	2	75	6	2	MESDL20100A
2.0	2	4	75	6	2	MESDL20200A
3.0	3	6	75	6	2	MESDL20300A
4.0	4	8	75	6	2	MESDL20400A
6.0	6	12	75	6	2	MESDL20600A
8.0	8	16	100	8	2	MESDL20800A
10.0	10	20	100	10	2	MESDL21000A
12.0	12	24	100	12	2	MESDL21200A

# M520 極細鎢鋼平銑刀- 短刃型- 4刃

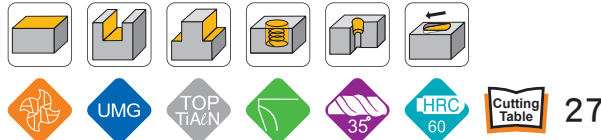
## M520 ULTRA CARBIDE END MILLS- Short Flute- Square Type- 4F

### · MESD40000A



刃徑 d	公差 Tolerance
$\phi < 3$	0 ~ -0.02
$3 \leq \phi \leq 10$	-0.01 ~ -0.03
$10 < \phi$	-0.01 ~ -0.04

超精銑 Bright Finishing	<input type="radio"/>
精銑 Finishing	<input checked="" type="radio"/>
中銑 Semi Finishing	<input type="radio"/>
粗銑 Roughing	<input type="radio"/>

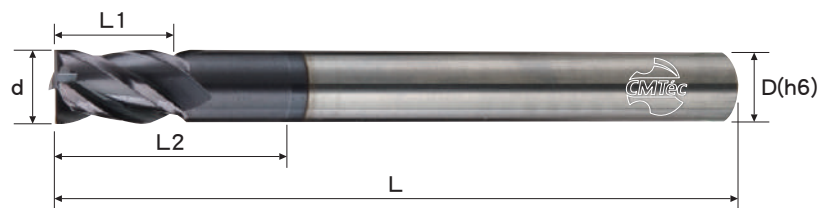


刃徑 d	刃長 L1	有效長 L2	全長 L	柄徑 D	刃數 F	鍍膜訂購編號 Coated Order No.
3.0	3	6	50	6	4	MESD40300A
4.0	4	8	50	6	4	MESD40400A
5.0	5	10	50	6	4	MESD40500A
6.0	6	12	50	6	4	MESD40600A
8.0	8	16	60	8	4	MESD40800A
10.0	10	20	75	10	4	MESD41000A
12.0	12	24	75	12	4	MESD41200A

# M520 極細鎢鋼平銑刀- 短刃長柄型- 4刃

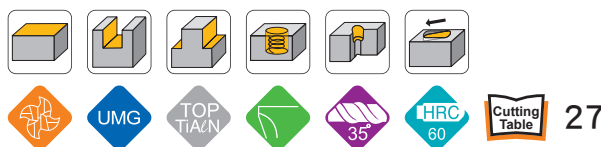
## M520 ULTRA CARBIDE END MILLS- Short Flute- Square Type- Long Shank- 4F

### · MESDL40000A



刃徑 d	公差 Tolerance
$\phi < 3$	0 ~ -0.02
$3 \leq \phi \leq 10$	-0.01 ~ -0.03
$10 < \phi$	-0.01 ~ -0.04

超精銑 Bright Finishing	<input type="radio"/>
精銑 Finishing	<input checked="" type="radio"/>
中銑 Semi Finishing	<input type="radio"/>
粗銑 Roughing	<input type="radio"/>

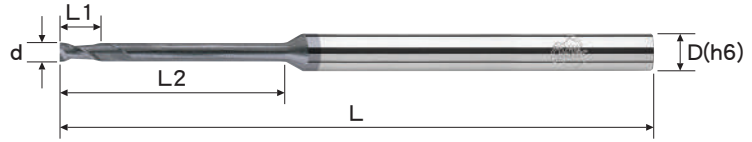


刃徑 d	刃長 L1	有效長 L2	全長 L	柄徑 D	刃數 F	鍍膜訂購編號 Coated Order No.
3.0	3	6	75	6	4	MESDL40300A
4.0	4	8	75	6	4	MESDL40400A
5.0	5	10	75	6	4	MESDL40500A
6.0	6	12	75	6	4	MESDL40600A
8.0	8	16	100	8	4	MESDL40800A
10.0	10	20	100	10	4	MESDL41000A
12.0	12	24	100	12	4	MESDL41200A

# M520 極細鎢鋼平銑刀- 長頸型- 2刃

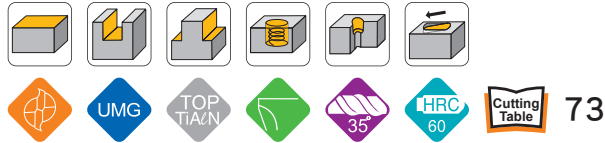
## M520 ULTRA CARBIDE END MILLS- Square Type- Long Neck- 2F

· MEN20000000A



刃徑 d	公差 Tolerance
Φ	0 ~ -0.02

超精銑 Bright Finishing	—
精銑 Finishing	○
中銑 Semi Finishing	◎
粗銑 Roughing	○



刃徑 d	刃長 L1	有效長 L2	全長 L	柄徑 D	刃數 F	白刀訂購編號 Uncoated Order No.	鍍膜訂購編號 Coated Order No.
1.0	1.5	4	50	4	2	MEN20100040	MEN20100040A
1.0	1.5	8	50	4	2	MEN20100080	MEN20100080A
1.2	1.8	6	50	4	2	MEN20120060	MEN20120060A
1.2	1.8	10	50	4	2	MEN20120100	MEN20120100A
1.5	2.3	8	50	4	2	MEN20150080	MEN20150080A
1.5	2.3	12	50	4	2	MEN20150120	MEN20150120A
1.8	2.7	10	50	4	2	MEN20180100	MEN20180100A
1.8	2.7	16	50	4	2	MEN20180160	MEN20180160A
2.0	3.0	10	50	4	2	MEN20200100	MEN20200100A
2.0	3.0	16	50	4	2	MEN20200160	MEN20200160A
2.0	3.0	20	60	4	2	MEN20200200	MEN20200200A
2.5	3.5	12	50	4	2	MEN20250120	MEN20250120A
2.5	3.5	20	60	4	2	MEN20250200	MEN20250200A
3.0	4.5	12	50	6	2	MEN20300120	MEN20300120A
3.0	4.5	20	60	6	2	MEN20300200	MEN20300200A
4.0	6.0	20	60	6	2	MEN20400200	MEN20400200A
4.0	6.0	30	60	6	2	MEN20400300	MEN20400300A
1.0	1.5	4	38	4	2	MEN20100040038L	MEN20100040038LA
1.0	1.5	8	38	4	2	MEN20100080038L	MEN20100080038LA
1.2	1.8	6	38	4	2	MEN20120060038L	MEN20120060038LA
1.2	1.8	10	38	4	2	MEN20120100038L	MEN20120100038LA
1.5	2.3	8	38	4	2	MEN20150080038L	MEN20150080038LA
1.5	2.3	12	38	4	2	MEN20150120038L	MEN20150120038LA
1.8	2.7	10	38	4	2	MEN20180100038L	MEN20180100038LA
1.8	2.7	16	38	4	2	MEN20180160038L	MEN20180160038LA
2.0	3.0	10	38	4	2	MEN20200100038L	MEN20200100038LA
2.0	3.0	16	38	4	2	MEN20200160038L	MEN20200160038LA
2.0	3.0	20	50	4	2	MEN20200200050L	MEN20200200050LA
2.5	3.5	12	38	4	2	MEN20250120038L	MEN20250120038LA
2.5	3.5	20	50	4	2	MEN20250200050L	MEN20250200050LA
3.0	4.5	12	38	6	2	MEN20300120038L	MEN20300120038LA
3.0	4.5	20	50	6	2	MEN20300200050L	MEN20300200050LA
4.0	6.0	20	50	6	2	MEN20400200050L	MEN20400200050LA
4.0	6.0	30	50	6	2	MEN20400300050L	MEN20400300050LA

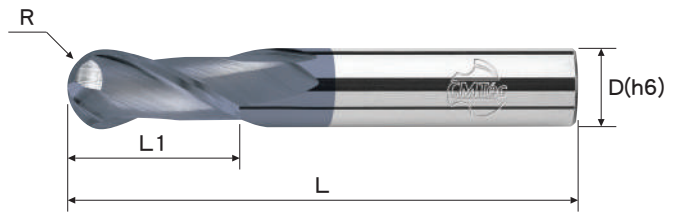




# M520 極細鎢鋼球型銑刀- 小柄/標準型- 2刃

## M520 ULTRA CARBIDE END MILLS- Ball Nose- 2F

- **MEBM20000A**
- **MEB20000A**



半徑 R	公差 Tolerance
R	±0.02

超精銑 Bright Finishing	—
精銑 Finishing	○
中銑 Semi Finishing	◎
粗銑 Roughing	○



半徑 R	刃長 L1	全長 L	柄徑 D	刃數 F	白刀訂購編號 Uncoated Order No.	鍍膜訂購編號 Coated Order No.
0.5R	2.0	50	4	2	MEBM20050	MEBM20050A
0.6R	2.4	50	4	2	MEBM20060	MEBM20060A
0.7R	2.8	50	4	2	MEBM20070	MEBM20070A
0.75R	3.0	50	4	2	MEBM20075	MEBM20075A
1.0R	4.0	50	4	2	MEBM20100	MEBM20100A
1.25R	5.0	50	4	2	MEBM20125	MEBM20125A
1.5R	6.0	50	4	2	MEBM20150	MEBM20150A
1.75R	7.0	50	4	2	MEBM20175	MEBM20175A
2.0R	8.0	50	4	2	MEBM20200	MEBM20200A
1.0R	4.0	50	6	2	MEB20100	MEB20100A
1.25R	5.0	50	6	2	MEB20125	MEB20125A
1.5R	6.0	50	6	2	MEB20150	MEB20150A
2.0R	8.0	50	6	2	MEB20200	MEB20200A
2.5R	10.0	50	6	2	MEB20250	MEB20250A
3.0R	12.0	50	6	2	MEB20300	MEB20300A
3.5R	14.0	60	8	2	MEB20350	MEB20350A
4.0R	16.0	60	8	2	MEB20400	MEB20400A
5.0R	20.0	75	10	2	MEB20500	MEB20500A
6.0R	24.0	75	12	2	MEB20600	MEB20600A
8.0R	32.0	100	16	2	MEB20800	MEB20800A
10.0R	40.0	100	20	2	MEB21000	MEB21000A

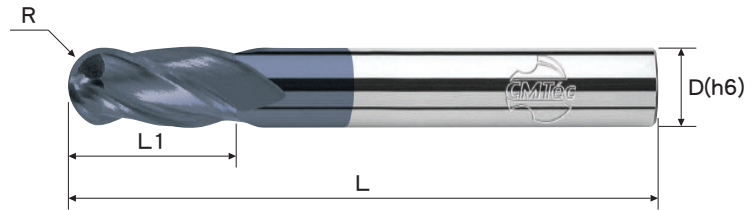
→ 切削條件表 Cutting Condition P.548 → 技術資料 Technical Data P.622

M520 M520 Ultra Carbide End Mills M520 極細鎢鋼銑刀系列

# M520 極細鎢鋼球型銑刀- 小柄/標準型- 4刃

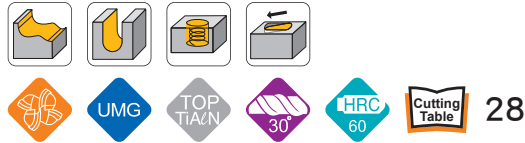
## M520 ULTRA CARBIDE END MILLS- Ball Nose- 4F

- **MEBM40000A**
- **MEB40000A**



半徑 R	Tolerance(公差)
R	±0.02

超精銑 Bright Finishing	○
精銑 Finishing	◎
中銑 Semi Finishing	○
粗銑 Roughing	—



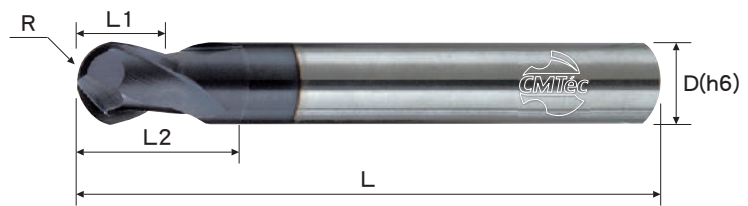
半徑 R	刃長 L1	全長 L	柄徑 D	刃數 F	白刀訂購編號 Uncoated Order No.	鍍膜訂購編號 Coated Order No.
1.0R	4	50	4	4	MEBM40100	MEBM40100A
1.25R	5	50	4	4	MEBM40125	MEBM40125A
1.5R	6	50	4	4	MEBM40150	MEBM40150A
1.75R	7	50	4	4	MEBM40175	MEBM40175A
2.0R	8	50	4	4	MEBM40200	MEBM40200A
3.0R	12	50	6	4	MEB40300	MEB40300A
4.0R	16	60	8	4	MEB40400	MEB40400A
5.0R	20	75	10	4	MEB40500	MEB40500A
6.0R	24	75	12	4	MEB40600	MEB40600A
8.0R	32	100	16	4	MEB40800	MEB40800A

→ 切削條件表 P.548 → 技術資料 P.622  
Cutting Condition Technical Data

# M520 極細鎢鋼球型銑刀- 短刃型- 2刃

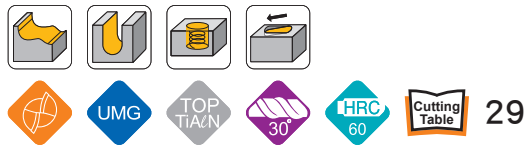
## M520 ULTRA CARBIDE END MILLS- Short Flute- Ball Nose- 2F

- MEBDM20000A
- MEBD20000A



半徑 R	公差 Tolerance
R	±0.02

超精銑 Bright Finishing	—
精銑 Finishing	○
中銑 Semi Finishing	◎
粗銑 Roughing	○



半徑 R	刃徑 d	刃長 L1	有效長 L2	全長 L	柄徑 D	刃數 F	鍍膜訂單編號 Coated Order No.
0.15R	0.3	0.3	0.6	50	4	2	MEBDM20015A
0.2R	0.4	0.4	0.8	50	4	2	MEBDM20020A
0.25R	0.5	0.5	1.0	50	4	2	MEBDM20025A
0.3R	0.6	0.6	1.2	50	4	2	MEBDM20030A
0.4R	0.8	0.8	1.6	50	4	2	MEBDM20040A
0.5R	1.0	1.0	2.0	50	4	2	MEBDM20050A
1.0R	2.0	2.0	4.0	50	4	2	MEBDM20100A
1.5R	3.0	3.0	6.0	50	4	2	MEBDM20150A
1.0R	2.0	2.0	4.0	50	6	2	MEBD20100A
1.5R	3.0	3.0	6.0	50	6	2	MEBD20150A
2.0R	4.0	4.0	8.0	50	6	2	MEBD20200A
2.5R	5.0	5.0	10.0	50	6	2	MEBD20250A
3.0R	6.0	6.0	12.0	50	6	2	MEBD20300A
4.0R	8.0	8.0	16.0	60	8	2	MEBD20400A
5.0R	10.0	10.0	20.0	75	10	2	MEBD20500A
6.0R	12.0	12.0	24.0	75	12	2	MEBD20600A

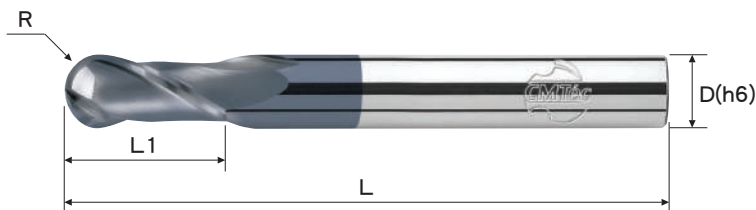
M520 Ultra Carbide End Mills

M520 極細鎢鋼銑刀系列

# M520 極細鎢鋼球型銑刀- 小長柄/長柄型- 2刃

M520 ULTRA CARBIDE END MILLS- Ball Nose- Long Shank- 2F

- MEBML20000A
- MEBL20000A



半徑 R	公差 Tolerance
R	±0.02

超精銑 Bright Finishing	—
精銑 Finishing	○
中銑 Semi Finishing	◎
粗銑 Roughing	○

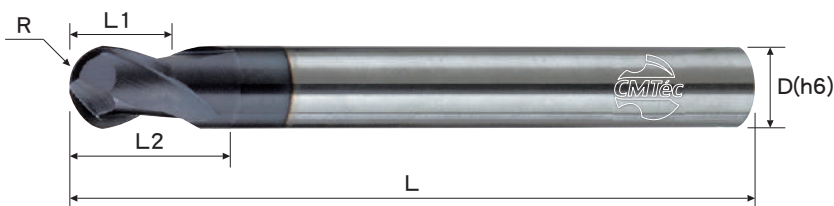


半徑 R	刃長 L1	全長 L	柄徑 D	刃數 F	白刀訂購編號 Unc oated Order No.	鍍膜訂購編號 Coated Order No.
1.0R	4	75	4	2	MEBML20100	MEBML20100A
1.5R	6	75	4	2	MEBML20150	MEBML20150A
2.0R	8	75	4	2	MEBML20200	MEBML20200A
1.0R	4	75	6	2	MEBL20100	MEBL20100A
1.5R	6	75	6	2	MEBL20150	MEBL20150A
2.0R	8	75	6	2	MEBL20200	MEBL20200A
2.5R	10	75	6	2	MEBL20250	MEBL20250A
3.0R	12	75	6	2	MEBL20300	MEBL20300A
4.0R	16	100	8	2	MEBL20400	MEBL20400A
5.0R	20	100	10	2	MEBL20500	MEBL20500A
6.0R	24	100	12	2	MEBL20600	MEBL20600A
8.0R	32	150	16	2	MEBL20800	MEBL20800A
10.0R	40	150	20	2	MEBL21000	MEBL21000A

# M520 極細鎢鋼球型銑刀- 短刃(小)長柄型- 2刃

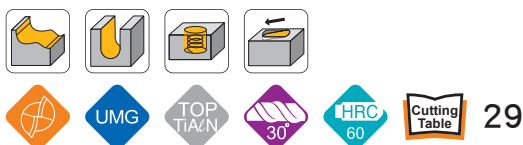
## M520 ULTRA CARBIDE END MILLS- Short Flute- Ball Nose- Long Shank- 2F

- MEBDML20000A
- MEBDL20000A



半徑 R	公差 Tolerance
R	±0.02

超精銑 Bright Finishing	—
精銑 Finishing	○
中銑 Semi Finishing	◎
粗銑 Roughing	○



半徑 R	刃徑 d	刃長 L1	有效長 L2	全長 L	柄徑 D	刃數 F	鍍膜訂單編號 Coated Order No.
0.5R	1	1	2	75	4	2	MEBDML20050A
1.0R	2	2	4	75	4	2	MEBDML20100A
1.5R	3	3	6	75	4	2	MEBDML20150A
1.0R	2	2	4	75	6	2	MEBDL20100A
1.5R	3	3	6	75	6	2	MEBDL20150A
2.0R	4	4	8	75	6	2	MEBDL20200A
2.5R	5	5	10	75	6	2	MEBDL20250A
3.0R	6	6	12	75	6	2	MEBDL20300A
4.0R	8	8	16	100	8	2	MEBDL20400A
5.0R	10	10	20	100	10	2	MEBDL20500A
6.0R	12	12	24	100	12	2	MEBDL20600A

# M520

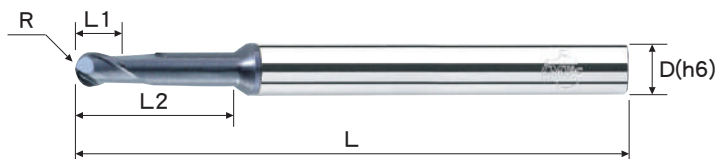
M520 Ultra Carbide End Mills

M520 極細鎢鋼銑刀系列

# M520 極細鎢鋼球型銑刀- 長頸型- 2刃

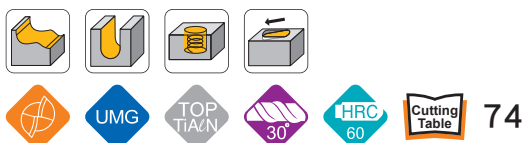
## M520 ULTRA CARBIDE END MILLS- Ball Nose- Long Neck- 2F

MEBN20000000A



半徑 R	公差 Tolerance
R	±0.02

超精銑 Bright Finishing	—
精銑 Finishing	○
中銑 Semi Finishing	◎
粗銑 Roughing	○



半徑 R	刃長 L1	有效長 L2	全長 L	柄徑 D	刃數 F	白刀訂購編號 Uncoated Order No.	鍍膜訂購編號 Coated Order No.
0.5R	0.8	4	50	4	2	MEBN20050040	MEBN20050040A
0.5R	0.8	7	50	4	2	MEBN20050070	MEBN20050070A
0.75R	1.2	6	50	4	2	MEBN20075060	MEBN20075060A
0.75R	1.2	10	50	4	2	MEBN20075100	MEBN20075100A
1.0R	1.6	8	50	4	2	MEBN20100080	MEBN20100080A
1.0R	1.6	12	50	4	2	MEBN20100120	MEBN20100120A
1.0R	1.6	18	50	4	2	MEBN20100180	MEBN20100180A
1.25R	2.0	10	50	4	2	MEBN20125100	MEBN20125100A
1.25R	2.0	20	60	4	2	MEBN20125200	MEBN20125200A
1.5R	2.4	12	50	6	2	MEBN20150120	MEBN20150120A
1.5R	2.4	20	60	6	2	MEBN20150200	MEBN20150200A
2.0R	3.2	16	50	6	2	MEBN20200160	MEBN20200160A
2.0R	3.2	25	60	6	2	MEBN20200250	MEBN20200250A
0.5R	0.8	4	38	4	2	MEBN20050040038L	MEBN20050040038LA
0.5R	0.8	7	38	4	2	MEBN20050070038L	MEBN20050070038LA
0.75R	1.2	6	38	4	2	MEBN20075060038L	MEBN20075060038LA
0.75R	1.2	10	38	4	2	MEBN20075100038L	MEBN20075100038LA
1.0R	1.6	8	38	4	2	MEBN20100080038L	MEBN20100080038LA
1.0R	1.6	12	38	4	2	MEBN20100120038L	MEBN20100120038LA
1.0R	1.6	18	38	4	2	MEBN20100180038L	MEBN20100180038LA
1.25R	2.0	10	38	4	2	MEBN20125100038L	MEBN20125100038LA
1.25R	2.0	20	50	4	2	MEBN20125200050L	MEBN20125200050LA
1.5R	2.4	12	38	6	2	MEBN20150120038L	MEBN20150120038LA
1.5R	2.4	20	50	6	2	MEBN20150200050L	MEBN20150200050LA
2.0R	3.2	16	38	6	2	MEBN20200160038L	MEBN20200160038LA
2.0R	3.2	25	50	6	2	MEBN20200250050L	MEBN20200250050LA

M520

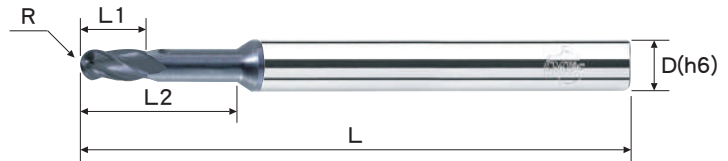
M520 Ultra Carbide End Mills

M520 極細鎢鋼銑刀系列

# M520 極細鎢鋼球型銑刀- 長頸型- 4刃

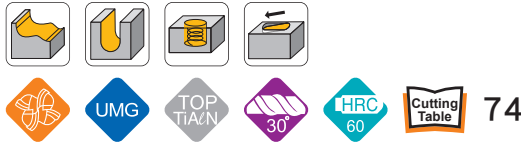
M520 ULTRA CARBIDE END MILLS- Ball Nose- Long Neck- 4F

MEBN40000000A



半徑 R	公差 Tolerance
R	±0.02

超精銑 Bright Finishing	○
精銑 Finishing	◎
中銑 Semi Finishing	○
粗銑 Roughing	—



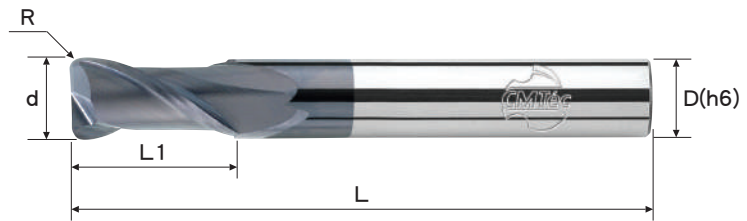
半徑 R	刃長 L1	有效長 L2	全長 L	柄徑 D	刃數 F	白刀訂購編號 Uncoated Order No.	鍍膜訂購編號 Coated Order No.
0.5R	0.8	4	50	4	4	MEBN40050040	MEBN40050040A
0.5R	0.8	7	50	4	4	MEBN40050070	MEBN40050070A
0.75R	1.2	6	50	4	4	MEBN40075060	MEBN40075060A
0.75R	1.2	10	50	4	4	MEBN40075100	MEBN40075100A
1.0R	1.6	8	50	4	4	MEBN40100080	MEBN40100080A
1.0R	1.6	12	50	4	4	MEBN40100120	MEBN40100120A
1.0R	1.6	18	50	4	4	MEBN40100180	MEBN40100180A
1.25R	2.0	10	50	4	4	MEBN40125100	MEBN40125100A
1.25R	2.0	20	60	4	4	MEBN40125200	MEBN40125200A
1.5R	2.4	12	50	6	4	MEBN40150120	MEBN40150120A
1.5R	2.4	20	60	6	4	MEBN40150200	MEBN40150200A
2.0R	3.2	16	50	6	4	MEBN40200160	MEBN40200160A
2.0R	3.2	25	60	6	4	MEBN40200250	MEBN40200250A

# M520 極細鎢鋼圓鼻銑刀- 小柄/標準型- 2刃

## M520 ULTRA CARBIDE END MILLS- Corner Radius- 2F

· MECRM2000000A

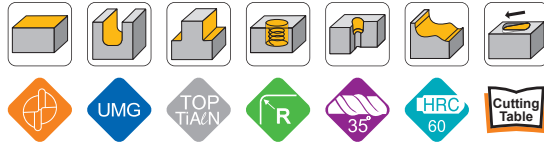
· MECCR2000000A



刃徑 d	公差 Tolerance
$\phi < 3$	0 ~ -0.02
$3 \leq \phi \leq 10$	-0.01 ~ -0.03
$10 < \phi$	-0.01 ~ -0.04

半徑 R	公差 Tolerance
R	$\pm 0.02$

超精銑 Bright Finishing	—
精銑 Finishing	○
中銑 Semi Finishing	◎
粗銑 Roughing	◎



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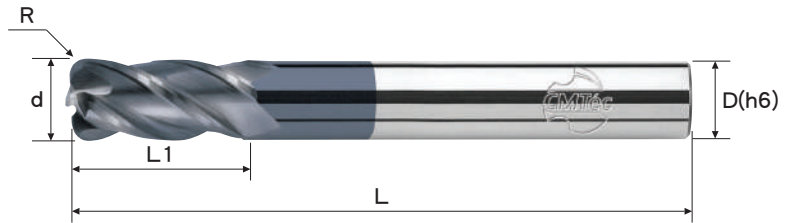
刃徑 d	R角 R	刃長 L1	全長 L	柄徑 D	刃數 F	白刀訂購編號 Uncoated Order No.	鍍膜訂購編號 Coated Order No.
1.0	0.2R	2	50	4	2	MECRM2010002	MECRM2010002A
1.5	0.2R	3	50	4	2	MECRM2015002	MECRM2015002A
2.0	0.2R	4	50	4	2	MECRM2020002	MECRM2020002A
2.5	0.2R	5	50	4	2	MECRM2025002	MECRM2025002A
2.5	0.5R	5	50	4	2	MECRM2025005	MECRM2025005A
3.0	0.5R	6	50	4	2	MECRM2030005	MECRM2030005A
3.0	1.0R	6	50	4	2	MECRM2030010	MECRM2030010A
4.0	0.3R	8	50	4	2	MECRM2040003	MECRM2040003A
4.0	0.5R	8	50	4	2	MECRM2040005	MECRM2040005A
4.0	1.0R	8	50	4	2	MECRM2040010	MECRM2040010A
4.0	0.5R	8	50	6	2	MECR2040005	MECR2040005A
4.0	1.0R	8	50	6	2	MECR2040010	MECR2040010A
5.0	0.5R	10	50	6	2	MECR2050005	MECR2050005A
5.0	1.0R	10	50	6	2	MECR2050010	MECR2050010A
6.0	0.5R	12	50	6	2	MECR2060005	MECR2060005A
6.0	1.0R	12	50	6	2	MECR2060010	MECR2060010A
8.0	0.5R	16	60	8	2	MECR2080005	MECR2080005A
8.0	1.0R	16	60	8	2	MECR2080010	MECR2080010A
8.0	1.5R	16	60	8	2	MECR2080015	MECR2080015A
10.0	0.5R	20	75	10	2	MECR2100005	MECR2100005A
10.0	1.0R	20	75	10	2	MECR2100010	MECR2100010A
10.0	1.5R	20	75	10	2	MECR2100015	MECR2100015A
10.0	2.0R	20	75	10	2	MECR2100020	MECR2100020A
12.0	0.5R	24	75	12	2	MECR2120005	MECR2120005A
12.0	1.0R	24	75	12	2	MECR2120010	MECR2120010A
12.0	1.5R	24	75	12	2	MECR2120015	MECR2120015A
12.0	2.0R	24	75	12	2	MECR2120020	MECR2120020A



# M520 極細鎢鋼圓鼻銑刀- 標準型- 4刃

## M520 ULTRA CARBIDE END MILLS- Corner Radius- 4F

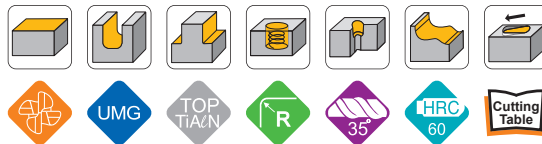
### MECR4000000A



刃徑 d	公差 Tolerance
$\phi < 3$	0 ~ -0.02
$3 \leq \phi \leq 10$	-0.01 ~ -0.03
$10 < \phi$	-0.01 ~ -0.04

半徑 R	公差 Tolerance
R	$\pm 0.02$

超精銑 Bright Finishing	<input type="radio"/>
精銑 Finishing	<input checked="" type="radio"/>
中銑 Semi Finishing	<input type="radio"/>
粗銑 Roughing	<input type="radio"/>



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刃徑 d	R角 R	刃長 L1	全長 L	柄徑 D	刃數 F	白刀訂購編號 Uncoated Order No.	鍍膜訂購編號 Coated Order No.
1.0	0.2R	2	50	4	4	MECRM4010002	MECRM4010002A
1.5	0.2R	3	50	4	4	MECRM4015002	MECRM4015002A
2.0	0.2R	4	50	4	4	MECRM4020002	MECRM4020002A
2.5	0.2R	5	50	4	4	MECRM4025002	MECRM4025002A
2.5	0.5R	5	50	4	4	MECRM4025005	MECRM4025005A
3.0	0.5R	6	50	4	4	MECRM4030005	MECRM4030005A
3.0	1.0R	6	50	4	4	MECRM4030010	MECRM4030010A
4.0	0.3R	8	50	4	4	MECRM4040003	MECRM4040003A
4.0	0.5R	8	50	4	4	MECRM4040005	MECRM4040005A
4.0	1.0R	8	50	4	4	MECRM4040010	MECRM4040010A
3.0	0.5R	6	50	6	4	MECR4030005	MECR4030005A
3.0	1.0R	6	50	6	4	MECR4030010	MECR4030010A
4.0	0.5R	8	50	6	4	MECR4040005	MECR4040005A
4.0	1.0R	8	50	6	4	MECR4040010	MECR4040010A
5.0	0.5R	10	50	6	4	MECR4050005	MECR4050005A
5.0	1.0R	10	50	6	4	MECR4050010	MECR4050010A
6.0	0.5R	12	50	6	4	MECR4060005	MECR4060005A
6.0	1.0R	12	50	6	4	MECR4060010	MECR4060010A
8.0	0.5R	16	60	8	4	MECR4080005	MECR4080005A
8.0	1.0R	16	60	8	4	MECR4080010	MECR4080010A
8.0	1.5R	16	60	8	4	MECR4080015	MECR4080015A
8.0	0.5R	16	75	8	4	MECR4080005075L	MECR4080005075LA
10.0	0.5R	20	75	10	4	MECR4100005	MECR4100005A
10.0	1.0R	20	75	10	4	MECR4100010	MECR4100010A
10.0	1.5R	20	75	10	4	MECR4100015	MECR4100015A
10.0	2.0R	20	75	10	4	MECR4100020	MECR4100020A
12.0	0.5R	24	75	12	4	MECR4120005	MECR4120005A
12.0	1.0R	24	75	12	4	MECR4120010	MECR4120010A
12.0	1.5R	24	75	12	4	MECR4120015	MECR4120015A
12.0	2.0R	24	75	12	4	MECR4120020	MECR4120020A
12.0	3.0R	24	75	12	4	MECR4120030	MECR4120030A

→ 切削條件表 P.551  
Cutting Condition

→ 技術資料 P.622  
Technical Data

M520

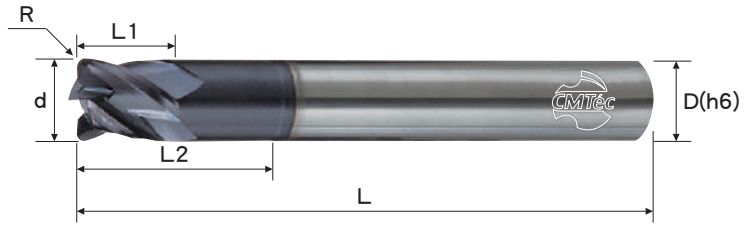
M520 Ultra Carbide End Mills

M520 極細鎢鋼銑刀系列

# M520 極細鎢鋼圓鼻銑刀- 短刃型- 4刃

## M520 ULTRA CARBIDE END MILLS- Short Flute- Corner Radius- 4F

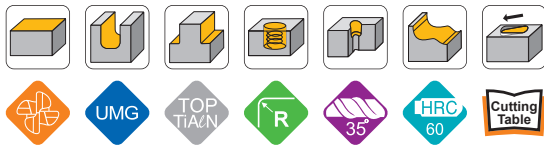
- MECDM4000000A
- MECD4000000A



刃徑 d	公差 Tolerance
$\phi < 3$	0 ~ -0.02
$3 \leq \phi \leq 10$	-0.01 ~ -0.03
$10 < \phi$	-0.01 ~ -0.04

半徑 R	公差 Tolerance
R	$\pm 0.02$

超精銑 Bright Finishing	<input type="radio"/>
精銑 Finishing	<input checked="" type="radio"/>
中銑 Semi Finishing	<input type="radio"/>
粗銑 Roughing	<input type="radio"/>



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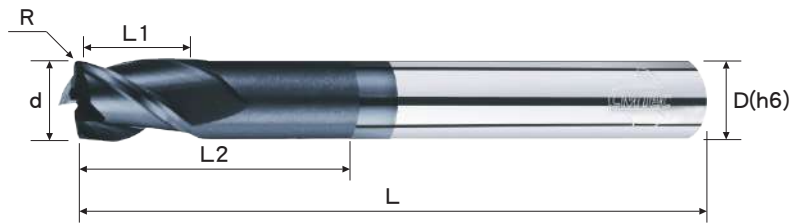
刃徑 d	R角 R	刃長 L1	有效長 L2	全長 L	柄徑 D	刃數 F	鍍膜訂單編號 Coated Order No.
1.0	0.2R	1.0	2.5	50	4	4	MECDM4010002A
1.5	0.15R	1.5	3.5	50	4	4	MECDM40150015A
1.5	0.3R	1.5	3.5	50	4	4	MECDM4015003A
2.0	0.3R	2.0	6.5	50	4	4	MECDM4020003A
2.5	0.3R	2.5	7.5	50	4	4	MECDM4025003A
2.5	0.5R	2.5	7.5	50	4	4	MECDM4025005A
3.0	0.3R	3.0	7.5	50	6	4	MECD4030003A
3.0	0.5R	3.0	7.5	50	6	4	MECD4030005A
4.0	0.3R	4.0	10.0	50	6	4	MECD4040003A
4.0	0.5R	4.0	10.0	50	6	4	MECD4040005A
5.0	0.3R	5.0	12.5	50	6	4	MECD4050003A
5.0	0.5R	5.0	12.5	50	6	4	MECD4050005A
6.0	0.5R	6.0	15.0	50	6	4	MECD4060005A
6.0	1.0R	6.0	15.0	50	6	4	MECD4060010A
8.0	0.5R	8.0	20.0	60	8	4	MECD4080005A
8.0	1.0R	8.0	20.0	60	8	4	MECD4080010A
8.0	1.5R	8.0	20.0	60	8	4	MECD4080015A
10.0	0.5R	10.0	25.0	75	10	4	MECD4100005A
10.0	1.0R	10.0	25.0	75	10	4	MECD4100010A
10.0	1.5R	10.0	25.0	75	10	4	MECD4100015A
10.0	2.0R	10.0	25.0	75	10	4	MECD4100020A
12.0	0.5R	12.0	30.0	75	12	4	MECD4120005A
12.0	1.0R	12.0	30.0	75	12	4	MECD4120010A
12.0	1.5R	12.0	30.0	75	12	4	MECD4120015A
12.0	2.0R	12.0	30.0	75	12	4	MECD4120020A

→ 切削條件表 P.549 Cutting Condition → 技術資料 P.622 Technical Data

# M520 極細鎢鋼圓鼻銑刀- 短刃長柄型- 3刃

M520 ULTRA CARBIDE END MILLS- Short Flute- Corner Radius & Long Shank- 3F

MECDL3000000A



刃徑 d	公差 Tolerance
$\phi < 3$	0 ~ -0.02
$3 \leq \phi \leq 10$	-0.01 ~ -0.03
$10 < \phi$	-0.01 ~ -0.04

半徑 R	公差 Tolerance
R	±0.02

超精銑 Bright Finishing	<input type="radio"/>
精銑 Finishing	<input checked="" type="radio"/>
中銑 Semi Finishing	<input type="radio"/>
粗銑 Roughing	<input type="radio"/>

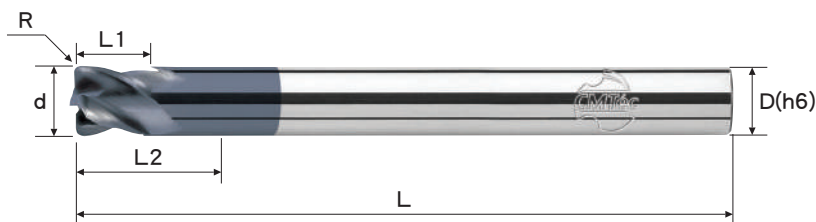


刃徑 d	R角 R	刃長 L1	有效長 L2	全長 L	柄徑 D	刃數 F	白刀訂購編號 Uncoated Order No.	鍍膜訂購編號 Coated Order No.
3.0	0.3R	3	7.5	75	6	3	MECDL3030003	MECDL3030003A
3.0	0.5R	3	7.5	75	6	3	MECDL3030005	MECDL3030005A
3.0	1.0R	3	7.5	75	6	3	MECDL3030010	MECDL3030010A
4.0	0.3R	4	10.0	75	6	3	MECDL3040003	MECDL3040003A
4.0	0.5R	4	10.0	75	6	3	MECDL3040005	MECDL3040005A
4.0	1.0R	4	10.0	75	6	3	MECDL3040010	MECDL3040010A
5.0	0.3R	5	12.5	75	6	3	MECDL3050003	MECDL3050003A
5.0	0.5R	5	12.5	75	6	3	MECDL3050005	MECDL3050005A
5.0	1.0R	5	12.5	75	6	3	MECDL3050010	MECDL3050010A
6.0	0.5R	6	15.0	75	6	3	MECDL3060005	MECDL3060005A
6.0	1.0R	6	15.0	75	6	3	MECDL3060010	MECDL3060010A
8.0	0.5R	8	20.0	100	8	3	MECDL3080005	MECDL3080005A
8.0	1.0R	8	20.0	100	8	3	MECDL3080010	MECDL3080010A
8.0	1.5R	8	20.0	100	8	3	MECDL3080015	MECDL3080015A
10.0	0.5R	10	25.0	100	10	3	MECDL3100005	MECDL3100005A
10.0	1.0R	10	25.0	100	10	3	MECDL3100010	MECDL3100010A
10.0	1.5R	10	25.0	100	10	3	MECDL3100015	MECDL3100015A
10.0	2.0R	10	30.0	100	10	3	MECDL3100020	MECDL3100020A
12.0	0.5R	12	30.0	100	12	3	MECDL3120005	MECDL3120005A
12.0	1.0R	12	30.0	100	12	3	MECDL3120010	MECDL3120010A
12.0	1.5R	12	30.0	100	12	3	MECDL3120015	MECDL3120015A
12.0	2.0R	12	30.0	100	12	3	MECDL3120020	MECDL3120020A

# M520 極細鎢鋼圓鼻銑刀- 短刃長柄型- 4刃

## M520 ULTRA CARBIDE END MILLS- Short Flute- Corner Radius & Long Shank- 4F

· MECDL4000000A



刃徑 d	公差 Tolerance
$\phi < 3$	0 ~ -0.02
$3 \leq \phi \leq 10$	-0.01 ~ -0.03
$10 < \phi$	-0.01 ~ -0.04

半徑 R	公差 Tolerance
R	$\pm 0.02$

超精銑 Bright Finishing	<input type="radio"/>
精銑 Finishing	<input checked="" type="radio"/>
中銑 Semi Finishing	<input type="radio"/>
粗銑 Roughing	<input type="radio"/>



UMG TOP TiAlN R 35 HRC 60 Cutting Table 30

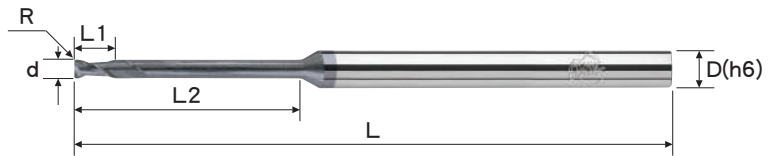
刃徑 d	R角 R	刃長 L1	有效長 L2	全長 L	柄徑 D	刃數 F	白刀訂購編號 Uncoated Order No.	鍍膜訂購編號 Coated Order No.
3.0	0.3R	3	7.5	75	6	4	MECDL4030003	MECDL4030003A
3.0	0.5R	3	7.5	75	6	4	MECDL4030005	MECDL4030005A
3.0	1.0R	3	7.5	75	6	4	MECDL4030010	MECDL4030010A
4.0	0.3R	4	10.0	75	6	4	MECDL4040003	MECDL4040003A
4.0	0.5R	4	10.0	75	6	4	MECDL4040005	MECDL4040005A
4.0	1.0R	4	10.0	75	6	4	MECDL4040010	MECDL4040010A
5.0	0.3R	5	12.5	75	6	4	MECDL4050003	MECDL4050003A
5.0	0.5R	5	12.5	75	6	4	MECDL4050005	MECDL4050005A
5.0	1.0R	5	12.5	75	6	4	MECDL4050010	MECDL4050010A
6.0	0.5R	6	15.0	75	6	4	MECDL4060005	MECDL4060005A
6.0	1.0R	6	15.0	75	6	4	MECDL4060010	MECDL4060010A
8.0	0.5R	8	20.0	100	8	4	MECDL4080005	MECDL4080005A
8.0	1.0R	8	20.0	100	8	4	MECDL4080010	MECDL4080010A
8.0	1.5R	8	20.0	100	8	4	MECDL4080015	MECDL4080015A
10.0	0.5R	10	25.0	100	10	4	MECDL4100005	MECDL4100005A
10.0	1.0R	10	25.0	100	10	4	MECDL4100010	MECDL4100010A
10.0	1.5R	10	25.0	100	10	4	MECDL4100015	MECDL4100015A
10.0	2.0R	10	30.0	100	10	4	MECDL4100020	MECDL4100020A
12.0	0.5R	12	30.0	100	12	4	MECDL4120005	MECDL4120005A
12.0	1.0R	12	30.0	100	12	4	MECDL4120010	MECDL4120010A
12.0	1.5R	12	30.0	100	12	4	MECDL4120015	MECDL4120015A
12.0	2.0R	12	30.0	100	12	4	MECDL4120020	MECDL4120020A

M520 M520 Ultra Carbide End Mills M520 極細鎢鋼銑刀系列

# M520 極細鎢鋼圓鼻銑刀- 長頸型- 2刃

## M520 ULTRA CARBIDE END MILLS- Corner Radius- Long Neck- 2F

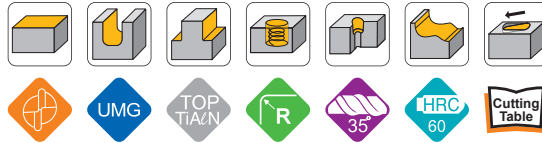
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刃徑 d	公差 Tolerance
$\phi < 3$	0 ~ -0.02
$3 \leq \phi \leq 10$	-0.01 ~ -0.03
$10 < \phi$	-0.01 ~ -0.04

半徑 R	公差 Tolerance
R	$\pm 0.02$

超精銑 Bright Finishing	—
精銑 Finishing	○
中銑 Semi Finishing	◎
粗銑 Roughing	◎



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刃徑 d	R角 R	刃長 L1	有效長 L2	全長 L	柄徑 D	刃數 F	白刀訂購編號 Uncoated Order No.	鍍膜訂購編號 Coated Order No.
1.0	0.2	1.5	4	50	4	2	MECRN2010002040	MECRN2010002040A
1.0	0.2	1.5	6	50	4	2	MECRN2010002060	MECRN2010002060A
1.0	0.2	1.5	8	50	4	2	MECRN2010002080	MECRN2010002080A
1.0	0.2	1.5	10	50	4	2	MECRN2010002100	MECRN2010002100A
1.0	0.2	1.5	12	50	4	2	MECRN2010002120	MECRN2010002120A
1.5	0.2	2.3	6	50	4	2	MECRN2015002060	MECRN2015002060A
1.5	0.2	2.3	8	50	4	2	MECRN2015002080	MECRN2015002080A
1.5	0.2	2.3	10	50	4	2	MECRN2015002100	MECRN2015002100A
1.5	0.2	2.3	12	50	4	2	MECRN2015002120	MECRN2015002120A
1.5	0.2	2.3	16	50	4	2	MECRN2015002160	MECRN2015002160A
2.0	0.2	3.0	6	50	4	2	MECRN2020002060	MECRN2020002060A
2.0	0.2	3.0	8	50	4	2	MECRN2020002080	MECRN2020002080A
2.0	0.2	3.0	10	50	4	2	MECRN2020002100	MECRN2020002100A
2.0	0.2	3.0	12	50	4	2	MECRN2020002120	MECRN2020002120A
2.0	0.2	3.0	16	50	4	2	MECRN2020002160	MECRN2020002160A
2.0	0.2	3.0	20	60	4	2	MECRN2020002200	MECRN2020002200A
2.0	0.3	3.0	6	50	4	2	MECRN2020003060	MECRN2020003060A
2.0	0.3	3.0	8	50	4	2	MECRN2020003080	MECRN2020003080A
2.0	0.3	3.0	10	50	4	2	MECRN2020003100	MECRN2020003100A
2.0	0.3	3.0	12	50	4	2	MECRN2020003120	MECRN2020003120A
2.0	0.3	3.0	16	50	4	2	MECRN2020003160	MECRN2020003160A
2.0	0.3	3.0	20	60	4	2	MECRN2020003200	MECRN2020003200A
2.0	0.5	3.0	6	50	4	2	MECRN2020005060	MECRN2020005060A
2.0	0.5	3.0	8	50	4	2	MECRN2020005080	MECRN2020005080A
2.0	0.5	3.0	10	50	4	2	MECRN2020005100	MECRN2020005100A
2.0	0.5	3.0	12	50	4	2	MECRN2020005120	MECRN2020005120A
2.0	0.5	3.0	16	50	4	2	MECRN2020005160	MECRN2020005160A
2.0	0.5	3.0	20	60	4	2	MECRN2020005200	MECRN2020005200A
2.5	0.2	3.5	10	50	4	2	MECRN2025002100	MECRN2025002100A
2.5	0.2	3.5	16	50	4	2	MECRN2025002160	MECRN2025002160A
2.5	0.2	3.5	20	60	4	2	MECRN2025002200	MECRN2025002200A
2.5	0.3	3.5	10	50	4	2	MECRN2025003100	MECRN2025003100A
2.5	0.3	3.5	16	50	4	2	MECRN2025003160	MECRN2025003160A
2.5	0.3	3.5	20	60	4	2	MECRN2025003200	MECRN2025003200A
2.5	0.5	3.5	10	50	4	2	MECRN2025005100	MECRN2025005100A
2.5	0.5	3.5	16	50	4	2	MECRN2025005160	MECRN2025005160A
2.5	0.5	3.5	20	60	4	2	MECRN2025005200	MECRN2025005200A

→ 切削條件表 Cutting Condition P.550 → 技術資料 Technical Data P.622

M520

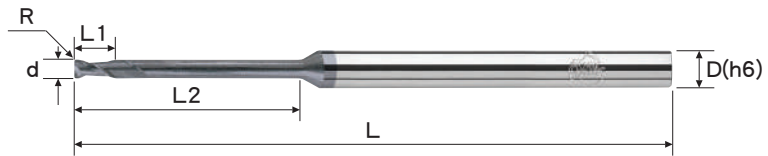
M520 Ultra Carbide End Mills

M520 極細鎢鋼銑刀系列

# M520 極細鎢鋼圓鼻銑刀- 長頸型- 2刃

## M520 ULTRA CARBIDE END MILLS- Corner Radius- Long Neck- 2F

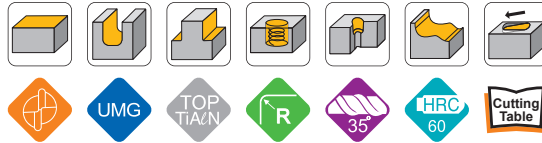
MECRN2000000000A



刃徑 d	公差 Tolerance
$\phi < 3$	0 ~ -0.02
$3 \leq \phi \leq 10$	-0.01 ~ -0.03
$10 < \phi$	-0.01 ~ -0.04

半徑 R	公差 Tolerance
R	$\pm 0.02$

超精銑 Bright Finishing	—
精銑 Finishing	○
中銑 Semi Finishing	◎
粗銑 Roughing	◎



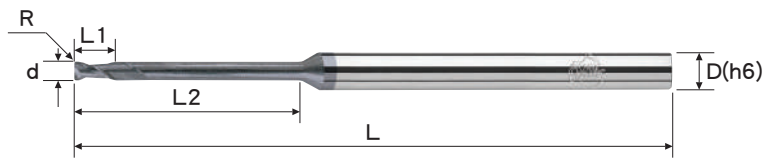
32

刃徑 d	R角 R	刃長 L1	有效長 L2	全長 L	柄徑 D	刃數 F	白刀訂購編號 Uncoated Order No.	鍍膜訂購編號 Coated Order No.
3.0	0.2	4.5	10	50	6	2	MECRN2030002100	MECRN2030002100A
3.0	0.2	4.5	16	50	6	2	MECRN2030002160	MECRN2030002160A
3.0	0.2	4.5	20	60	6	2	MECRN2030002200	MECRN2030002200A
3.0	0.3	4.5	10	50	6	2	MECRN2030003100	MECRN2030003100A
3.0	0.3	4.5	16	50	6	2	MECRN2030003160	MECRN2030003160A
3.0	0.3	4.5	20	60	6	2	MECRN2030003200	MECRN2030003200A
3.0	0.5	4.5	10	50	6	2	MECRN2030005100	MECRN2030005100A
3.0	0.5	4.5	16	50	6	2	MECRN2030005160	MECRN2030005160A
3.0	0.5	4.5	20	60	6	2	MECRN2030005200	MECRN2030005200A
3.0	1.0	4.5	10	50	6	2	MECRN2030010100	MECRN2030010100A
3.0	1.0	4.5	16	50	6	2	MECRN2030010160	MECRN2030010160A
3.0	1.0	4.5	20	60	6	2	MECRN2030010200	MECRN2030010200A
4.0	0.2	6.0	12	50	6	2	MECRN2040002120	MECRN2040002120A
4.0	0.2	6.0	16	50	6	2	MECRN2040002160	MECRN2040002160A
4.0	0.2	6.0	20	60	6	2	MECRN2040002200	MECRN2040002200A
4.0	0.2	6.0	25	60	6	2	MECRN2040002250	MECRN2040002250A
4.0	0.3	6.0	12	50	6	2	MECRN2040003120	MECRN2040003120A
4.0	0.3	6.0	16	50	6	2	MECRN2040003160	MECRN2040003160A
4.0	0.3	6.0	20	60	6	2	MECRN2040003200	MECRN2040003200A
4.0	0.3	6.0	25	60	6	2	MECRN2040003250	MECRN2040003250A
4.0	0.5	6.0	12	50	6	2	MECRN2040005120	MECRN2040005120A
4.0	0.5	6.0	16	50	6	2	MECRN2040005160	MECRN2040005160A
4.0	0.5	6.0	20	60	6	2	MECRN2040005200	MECRN2040005200A
4.0	0.5	6.0	25	60	6	2	MECRN2040005250	MECRN2040005250A
4.0	1.0	6.0	12	50	6	2	MECRN2040010120	MECRN2040010120A
4.0	1.0	6.0	16	50	6	2	MECRN2040010160	MECRN2040010160A
4.0	1.0	6.0	20	60	6	2	MECRN2040010200	MECRN2040010200A
4.0	1.0	6.0	25	60	6	2	MECRN2040010250	MECRN2040010250A
5.0	0.2	7.0	16	60	6	2	MECRN2050002160	MECRN2050002160A
5.0	0.2	7.0	20	60	6	2	MECRN2050002200	MECRN2050002200A
5.0	0.2	7.0	25	60	6	2	MECRN2050002250	MECRN2050002250A
5.0	0.2	7.0	30	60	6	2	MECRN2050002300	MECRN2050002300A
5.0	0.3	7.0	16	60	6	2	MECRN2050003160	MECRN2050003160A
5.0	0.3	7.0	20	60	6	2	MECRN2050003200	MECRN2050003200A
5.0	0.3	7.0	25	60	6	2	MECRN2050003250	MECRN2050003250A
5.0	0.3	7.0	30	60	6	2	MECRN2050003300	MECRN2050003300A

# M520 極細鎢鋼圓鼻銑刀- 長頸型- 2刃

## M520 ULTRA CARBIDE END MILLS- Corner Radius- Long Neck- 2F

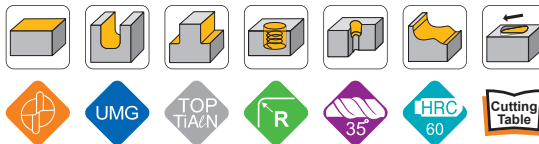
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刃徑 d	公差 Tolerance
$\phi < 3$	0 ~ -0.02
$3 \leq \phi \leq 10$	-0.01 ~ -0.03
$10 < \phi$	-0.01 ~ -0.04

半徑 R	公差 Tolerance
R	$\pm 0.02$

超精銑 Bright Finishing	—
精銑 Finishing	○
中銑 Semi Finishing	◎
粗銑 Roughing	⊙



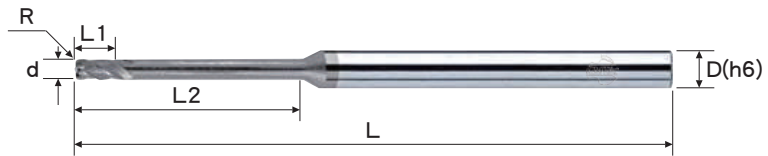
32

刃徑 d	R角 R	刃長 L1	有效長 L2	全長 L	柄徑 D	刃數 F	白刀訂購編號 Uncoated Order No.	鍍膜訂購編號 Coated Order No.
5.0	0.5	7	16	60	6	2	MECRN2050005160	MECRN2050005160A
5.0	0.5	7	20	60	6	2	MECRN2050005200	MECRN2050005200A
5.0	0.5	7	25	60	6	2	MECRN2050005250	MECRN2050005250A
5.0	0.5	7	30	60	6	2	MECRN2050005300	MECRN2050005300A
5.0	1.0	7	16	60	6	2	MECRN2050010160	MECRN2050010160A
5.0	1.0	7	20	60	6	2	MECRN2050010200	MECRN2050010200A
5.0	1.0	7	25	60	6	2	MECRN2050010250	MECRN2050010250A
5.0	1.0	7	30	60	6	2	MECRN2050010300	MECRN2050010300A
6.0	0.2	8	20	60	6	2	MECRN2060002200	MECRN2060002200A
6.0	0.2	8	25	60	6	2	MECRN2060002250	MECRN2060002250A
6.0	0.2	8	30	60	6	2	MECRN2060002300	MECRN2060002300A
6.0	0.3	8	20	60	6	2	MECRN2060003200	MECRN2060003200A
6.0	0.3	8	25	60	6	2	MECRN2060003250	MECRN2060003250A
6.0	0.3	8	30	60	6	2	MECRN2060003300	MECRN2060003300A
6.0	0.5	8	20	60	6	2	MECRN2060005200	MECRN2060005200A
6.0	0.5	8	25	60	6	2	MECRN2060005250	MECRN2060005250A
6.0	0.5	8	30	60	6	2	MECRN2060005300	MECRN2060005300A
6.0	1.0	8	20	60	6	2	MECRN2060010200	MECRN2060010200A
6.0	1.0	8	25	60	6	2	MECRN2060010250	MECRN2060010250A
6.0	1.0	8	30	60	6	2	MECRN2060010300	MECRN2060010300A
6.0	1.5	8	20	60	6	2	MECRN2060015200	MECRN2060015200A
6.0	1.5	8	25	60	6	2	MECRN2060015250	MECRN2060015250A
6.0	1.5	8	30	60	6	2	MECRN2060015300	MECRN2060015300A

# M520 極細鎢鋼圓鼻銑刀- 長頸型- 4刃

## M520 ULTRA CARBIDE END MILLS- Corner Radius- Long Neck- 4F

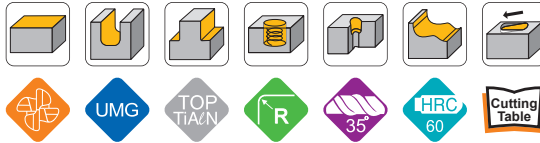
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刃徑 d	公差 Tolerance
$\phi < 3$	0 ~ -0.02
$3 \leq \phi \leq 10$	-0.01 ~ -0.03
$10 < \phi$	-0.01 ~ -0.04

半徑 R	公差 Tolerance
R	$\pm 0.02$

超精銑 Bright Finishing	<input type="radio"/>
精銑 Finishing	<input checked="" type="radio"/>
中銑 Semi Finishing	<input type="radio"/>
粗銑 Roughing	<input type="radio"/>



33

刃徑 d	R角 R	刃長 L1	有效長 L2	全長 L	柄徑 D	刃數 F	白刀訂購編號 Uncoated Order No.	鍍膜訂購編號 Coated Order No.
1.0	0.2	1.5	4	50	4	4	MECRN4010002040	MECRN4010002040A
1.0	0.2	1.5	6	50	4	4	MECRN4010002060	MECRN4010002060A
1.0	0.2	1.5	8	50	4	4	MECRN4010002080	MECRN4010002080A
1.0	0.2	1.5	10	50	4	4	MECRN4010002100	MECRN4010002100A
1.0	0.2	1.5	12	50	4	4	MECRN4010002120	MECRN4010002120A
1.5	0.2	2.3	6	50	4	4	MECRN4015002060	MECRN4015002060A
1.5	0.2	2.3	8	50	4	4	MECRN4015002080	MECRN4015002080A
1.5	0.2	2.3	10	50	4	4	MECRN4015002100	MECRN4015002100A
1.5	0.2	2.3	12	50	4	4	MECRN4015002120	MECRN4015002120A
1.5	0.2	2.3	16	50	4	4	MECRN4015002160	MECRN4015002160A
2.0	0.2	3.0	6	50	4	4	MECRN4020002060	MECRN4020002060A
2.0	0.2	3.0	8	50	4	4	MECRN4020002080	MECRN4020002080A
2.0	0.2	3.0	10	50	4	4	MECRN4020002100	MECRN4020002100A
2.0	0.2	3.0	12	50	4	4	MECRN4020002120	MECRN4020002120A
2.0	0.2	3.0	16	50	4	4	MECRN4020002160	MECRN4020002160A
2.0	0.2	3.0	20	60	4	4	MECRN4020002200	MECRN4020002200A
2.0	0.3	3.0	6	50	4	4	MECRN4020003060	MECRN4020003060A
2.0	0.3	3.0	8	50	4	4	MECRN4020003080	MECRN4020003080A
2.0	0.3	3.0	10	50	4	4	MECRN4020003100	MECRN4020003100A
2.0	0.3	3.0	12	50	4	4	MECRN4020003120	MECRN4020003120A
2.0	0.3	3.0	16	50	4	4	MECRN4020003160	MECRN4020003160A
2.0	0.3	3.0	20	60	4	4	MECRN4020003200	MECRN4020003200A
2.0	0.5	3.0	6	50	4	4	MECRN4020005060	MECRN4020005060A
2.0	0.5	3.0	8	50	4	4	MECRN4020005080	MECRN4020005080A
2.0	0.5	3.0	10	50	4	4	MECRN4020005100	MECRN4020005100A
2.0	0.5	3.0	12	50	4	4	MECRN4020005120	MECRN4020005120A
2.0	0.5	3.0	16	50	4	4	MECRN4020005160	MECRN4020005160A
2.0	0.5	3.0	20	60	4	4	MECRN4020005200	MECRN4020005200A
2.5	0.2	3.5	10	50	4	4	MECRN4025002100	MECRN4025002100A
2.5	0.2	3.5	16	50	4	4	MECRN4025002160	MECRN4025002160A
2.5	0.2	3.5	20	60	4	4	MECRN4025002200	MECRN4025002200A
2.5	0.3	3.5	10	50	4	4	MECRN4025003100	MECRN4025003100A
2.5	0.3	3.5	16	50	4	4	MECRN4025003160	MECRN4025003160A
2.5	0.3	3.5	20	60	4	4	MECRN4025003200	MECRN4025003200A
2.5	0.5	3.5	10	50	4	4	MECRN4025005100	MECRN4025005100A
2.5	0.5	3.5	16	50	4	4	MECRN4025005160	MECRN4025005160A
2.5	0.5	3.5	20	60	4	4	MECRN4025005200	MECRN4025005200A

→ 切削條件表  
Cutting Condition P.551

→ 技術資料  
Technical Data P.622

M520

M520 Ultra Carbide End Mills

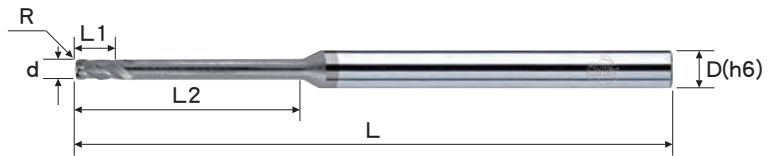
M520 極細鎢鋼銑刀系列



# M520 極細鎢鋼圓鼻銑刀- 長頸型- 4刃

## M520 ULTRA CARBIDE END MILLS- Corner Radius- Long Neck- 4F

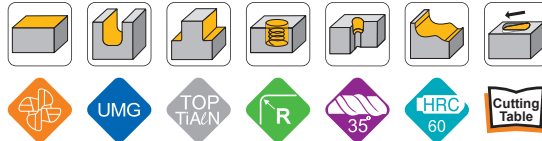
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刃徑 d	公差 Tolerance
$\phi < 3$	0 ~ -0.02
$3 \leq \phi \leq 10$	-0.01 ~ -0.03
$10 < \phi$	-0.01 ~ -0.04

半徑 R	公差 Tolerance
R	$\pm 0.02$

超精銑 Bright Finishing	<input type="radio"/>
精銑 Finishing	<input checked="" type="radio"/>
中銑 Semi Finishing	<input type="radio"/>
粗銑 Roughing	<input type="radio"/>



33

刃徑 d	R角 R	刃長 L1	有效長 L2	全長 L	柄徑 D	刃數 F	白刀訂購編號 Uncoated Order No.	鍍膜訂購編號 Coated Order No.
3.0	0.2	4.5	10	50	6	4	MECRN4030002100	MECRN4030002100A
3.0	0.2	4.5	16	50	6	4	MECRN4030002160	MECRN4030002160A
3.0	0.2	4.5	20	60	6	4	MECRN4030002200	MECRN4030002200A
3.0	0.3	4.5	10	50	6	4	MECRN4030003100	MECRN4030003100A
3.0	0.3	4.5	16	50	6	4	MECRN4030003160	MECRN4030003160A
3.0	0.3	4.5	20	60	6	4	MECRN4030003200	MECRN4030003200A
3.0	0.5	4.5	10	50	6	4	MECRN4030005100	MECRN4030005100A
3.0	0.5	4.5	16	50	6	4	MECRN4030005160	MECRN4030005160A
3.0	0.5	4.5	20	60	6	4	MECRN4030005200	MECRN4030005200A
3.0	1.0	4.5	10	50	6	4	MECRN4030010100	MECRN4030010100A
3.0	1.0	4.5	16	50	6	4	MECRN4030010160	MECRN4030010160A
3.0	1.0	4.5	20	60	6	4	MECRN4030010200	MECRN4030010200A
4.0	0.2	6.0	12	50	6	4	MECRN4040002120	MECRN4040002120A
4.0	0.2	6.0	16	50	6	4	MECRN4040002160	MECRN4040002160A
4.0	0.2	6.0	20	60	6	4	MECRN4040002200	MECRN4040002200A
4.0	0.2	6.0	25	60	6	4	MECRN4040002250	MECRN4040002250A
4.0	0.3	6.0	12	50	6	4	MECRN4040003120	MECRN4040003120A
4.0	0.3	6.0	16	50	6	4	MECRN4040003160	MECRN4040003160A
4.0	0.3	6.0	20	60	6	4	MECRN4040003200	MECRN4040003200A
4.0	0.3	6.0	25	60	6	4	MECRN4040003250	MECRN4040003250A
4.0	0.5	6.0	12	50	6	4	MECRN4040005120	MECRN4040005120A
4.0	0.5	6.0	16	50	6	4	MECRN4040005160	MECRN4040005160A
4.0	0.5	6.0	20	60	6	4	MECRN4040005200	MECRN4040005200A
4.0	0.5	6.0	25	60	6	4	MECRN4040005250	MECRN4040005250A
4.0	1.0	6.0	12	50	6	4	MECRN4040010120	MECRN4040010120A
4.0	1.0	6.0	16	50	6	4	MECRN4040010160	MECRN4040010160A
4.0	1.0	6.0	20	60	6	4	MECRN4040010200	MECRN4040010200A
4.0	1.0	6.0	25	60	6	4	MECRN4040010250	MECRN4040010250A
5.0	0.2	7.0	16	60	6	4	MECRN4050002160	MECRN4050002160A
5.0	0.2	7.0	20	60	6	4	MECRN4050002200	MECRN4050002200A
5.0	0.2	7.0	25	60	6	4	MECRN4050002250	MECRN4050002250A
5.0	0.2	7.0	30	60	6	4	MECRN4050002300	MECRN4050002300A
5.0	0.3	7.0	16	60	6	4	MECRN4050003160	MECRN4050003160A
5.0	0.3	7.0	20	60	6	4	MECRN4050003200	MECRN4050003200A
5.0	0.3	7.0	25	60	6	4	MECRN4050003250	MECRN4050003250A
5.0	0.3	7.0	30	60	6	4	MECRN4050003300	MECRN4050003300A

→ 切削條件表  
Cutting Condition P.551

→ 技術資料  
Technical Data P.622

M520

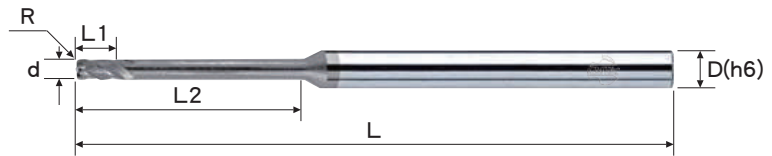
M520 Ultra Carbide End Mills

M520 極細鎢鋼銑刀系列

# M520 極細鎢鋼圓鼻銑刀- 長頸型- 4刃

M520 ULTRA CARBIDE END MILLS- Corner Radius- Long Neck- 4F

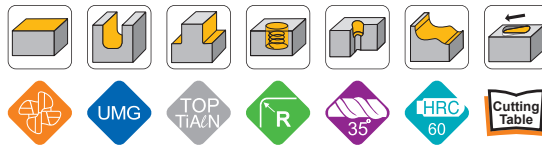
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刃徑 d	公差 Tolerance
$\phi < 3$	0 ~ -0.02
$3 \leq \phi \leq 10$	-0.01 ~ -0.03
$10 < \phi$	-0.01 ~ -0.04

半徑 R	公差 Tolerance
R	$\pm 0.02$

超精銑 Bright Finishing	<input type="radio"/>
精銑 Finishing	<input checked="" type="radio"/>
中銑 Semi Finishing	<input type="radio"/>
粗銑 Roughing	<input type="radio"/>



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刃徑 d	R角 R	刃長 L1	有效長 L2	全長 L	柄徑 D	刃數 F	白刀訂購編號 Uncoated Order No.	鍍膜訂購編號 Coated Order No.
5.0	0.5	7	16	60	6	4	MECRN4050005160	MECRN4050005160A
5.0	0.5	7	20	60	6	4	MECRN4050005200	MECRN4050005200A
5.0	0.5	7	25	60	6	4	MECRN4050005250	MECRN4050005250A
5.0	0.5	7	30	60	6	4	MECRN4050005300	MECRN4050005300A
5.0	1.0	7	16	60	6	4	MECRN4050010160	MECRN4050010160A
5.0	1.0	7	20	60	6	4	MECRN4050010200	MECRN4050010200A
5.0	1.0	7	25	60	6	4	MECRN4050010250	MECRN4050010250A
5.0	1.0	7	30	60	6	4	MECRN4050010300	MECRN4050010300A
6.0	0.2	8	20	60	6	4	MECRN4060002200	MECRN4060002200A
6.0	0.2	8	25	60	6	4	MECRN4060002250	MECRN4060002250A
6.0	0.2	8	30	60	6	4	MECRN4060002300	MECRN4060002300A
6.0	0.3	8	20	60	6	4	MECRN4060003200	MECRN4060003200A
6.0	0.3	8	25	60	6	4	MECRN4060003250	MECRN4060003250A
6.0	0.3	8	30	60	6	4	MECRN4060003300	MECRN4060003300A
6.0	0.5	8	20	60	6	4	MECRN4060005200	MECRN4060005200A
6.0	0.5	8	25	60	6	4	MECRN4060005250	MECRN4060005250A
6.0	0.5	8	30	60	6	4	MECRN4060005300	MECRN4060005300A
6.0	1.0	8	20	60	6	4	MECRN4060010200	MECRN4060010200A
6.0	1.0	8	25	60	6	4	MECRN4060010250	MECRN4060010250A
6.0	1.0	8	30	60	6	4	MECRN4060010300	MECRN4060010300A
6.0	1.5	8	20	60	6	4	MECRN4060015200	MECRN4060015200A
6.0	1.5	8	25	60	6	4	MECRN4060015250	MECRN4060015250A
6.0	1.5	8	30	60	6	4	MECRN4060015300	MECRN4060015300A

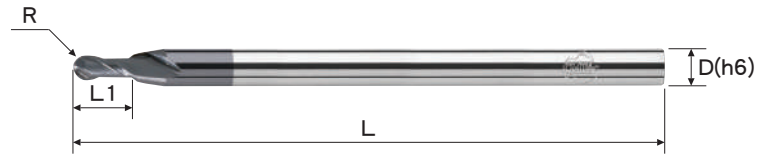
# M520 極細鎢鋼球型銑刀- 微/小柄- 高精度型- 2刃

M520 ULTRA CARBIDE END MILLS- Ball Nose- High R Tolerance Type- Micro Diameter- 2F

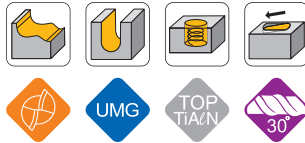
· MEBYS20000A

· MEBYM20000A

半徑 R	公差 Tolerance	刃徑 d	公差 Tolerance
0.1R	±0.005	0.2	-0.01~-0.02
0.15R	±0.005	0.3	-0.01~-0.02
0.2R	±0.005	0.4	-0.01~-0.02
0.25R	±0.005	0.5	-0.01~-0.02
0.3R	±0.005	0.6	-0.01~-0.02
0.35R	±0.005	0.7	-0.01~-0.02
0.4R	±0.005	0.8	-0.01~-0.02
0.45R	±0.005	0.9	-0.01~-0.02
0.5R	±0.005	1.0	-0.01~-0.02
0.75R	±0.005	1.5	-0.01~-0.02
1.0R	±0.005	2.0	-0.01~-0.02
1.25R	±0.005	2.5	-0.01~-0.02
1.5R	±0.005	3.0	-0.01~-0.02
2.0R	±0.005	4.0	-0.01~-0.02



Cutting Table 64



超精銑 Bright Finishing	—
精銑 Finishing	○
中銑 Semi Finishing	◎
粗銑 Roughing	○

半徑 R	刃徑 d	刃長 L1	全長 L	柄徑 D	刃數 F	白刀訂購編號 Uncoated Order No.	鍍膜訂購編號 Coated Order No.
0.1R	0.2	0.4	50	3	2	MEBYS20010	MEBYS20010A
0.15R	0.3	0.6	50	3	2	MEBYS20015	MEBYS20015A
0.2R	0.4	0.8	50	3	2	MEBYS20020	MEBYS20020A
0.25R	0.5	1.0	50	3	2	MEBYS20025	MEBYS20025A
0.3R	0.6	1.2	50	3	2	MEBYS20030	MEBYS20030A
0.35R	0.7	1.4	50	3	2	MEBYS20035	MEBYS20035A
0.4R	0.8	1.6	50	3	2	MEBYS20040	MEBYS20040A
0.45R	0.9	1.8	50	3	2	MEBYS20045	MEBYS20045A
0.5R	1.0	2.0	50	3	2	MEBYS20050	MEBYS20050A
0.6R	1.2	2.4	50	3	2	MEBYS20060	MEBYS20060A
0.7R	1.4	2.8	50	3	2	MEBYS20070	MEBYS20070A
0.75R	1.5	3.0	50	3	2	MEBYS20075	MEBYS20075A
0.8R	1.6	3.2	50	3	2	MEBYS20080	MEBYS20080A
0.9R	1.8	3.6	50	3	2	MEBYS20090	MEBYS20090A
1.0R	2.0	4.0	50	3	2	MEBYS20100	MEBYS20100A
1.5R	3.0	6.0	50	3	2	MEBYS20150	MEBYS20150A
0.1R	0.2	0.4	50	4	2	MEBYM20010	MEBYM20010A
0.15R	0.3	0.6	50	4	2	MEBYM20015	MEBYM20015A
0.2R	0.4	0.8	50	4	2	MEBYM20020	MEBYM20020A
0.25R	0.5	1.0	50	4	2	MEBYM20025	MEBYM20025A
0.3R	0.6	1.2	50	4	2	MEBYM20030	MEBYM20030A
0.35R	0.7	1.4	50	4	2	MEBYM20035	MEBYM20035A
0.4R	0.8	1.6	50	4	2	MEBYM20040	MEBYM20040A
0.45R	0.9	1.8	50	4	2	MEBYM20045	MEBYM20045A
0.5R	1.0	2.0	50	4	2	MEBYM20050	MEBYM20050A
0.75R	1.5	3.0	50	4	2	MEBYM20075	MEBYM20075A
1.0R	2.0	4.0	50	4	2	MEBYM20100	MEBYM20100A
1.25R	2.5	5.0	50	4	2	MEBYM20125	MEBYM20125A
1.5R	3.0	6.0	50	4	2	MEBYM20150	MEBYM20150A
2.0R	4.0	8.0	50	4	2	MEBYM20200	MEBYM20200A

→ 切削條件表 P.568  
Cutting Condition

→ 技術資料 P.622  
Technical Data

M520

M520 Ultra Carbide End Mills

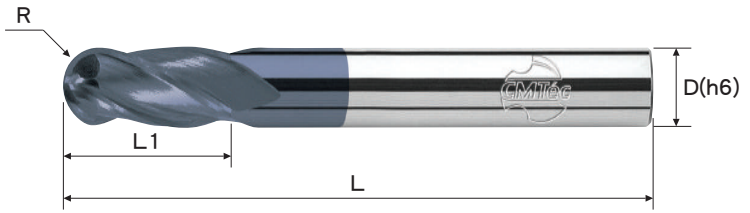
M520 極細鎢鋼銑刀系列



# M520 極細鎢鋼球型銑刀- 小柄/標準- 高精度型- 4刃

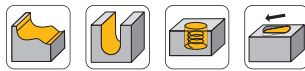
## M520 ULTRA CARBIDE END MILLS- Ball Nose- High R Tolerance Type- 4F

- MEBYM40000A
- MEBY40000A



半徑 R	公差 Tolerance	刃徑 d	公差 Tolerance
1.0R	±0.005	2.0	-0.01~-0.02
1.25R	±0.005	2.5	-0.01~-0.02
1.5R	±0.005	3.0	-0.01~-0.02
1.75R	±0.005	3.5	-0.01~-0.02
2.0R	±0.005	4.0	-0.01~-0.02
3.0R	±0.005	6.0	-0.01~-0.02

Cutting Table 64



超精銑 Bright Finishing	○
精銑 Finishing	◎
中銑 Semi Finishing	○
粗銑 Roughing	—

半徑 R	刃徑 d	刃長 L1	全長 L	柄徑 D	刃數 F	白刀訂購編號 Uncoated Order No.	鍍膜訂購編號 Coated Order No.
1.0R	2.0	4	50	4	4	MEBYM40100	MEBYM40100A
1.25R	2.5	5	50	4	4	MEBYM40125	MEBYM40125A
1.5R	3.0	6	50	4	4	MEBYM40150	MEBYM40150A
1.75R	3.5	7	50	4	4	MEBYM40175	MEBYM40175A
2.0R	4.0	8	50	4	4	MEBYM40200	MEBYM40200A
3.0R	6.0	12	50	6	4	MEBY40300	MEBY40300A

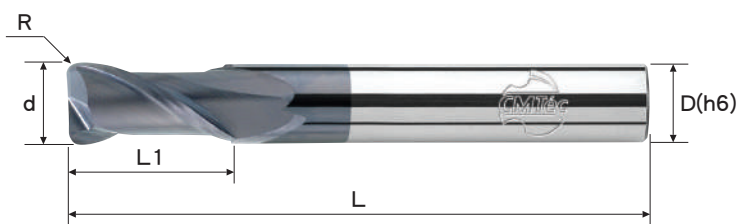
M520 M520 Ultra Carbide End Mills M520 極細鎢鋼銑刀系列

# M520 極細鎢鋼圓鼻銑刀- 小柄/標準- 高精度型- 2刃

## M520 ULTRA CARBIDE END MILLS- Corner Radius- High R Tolerance Type- 2F

· MECYM2000000A  
· MECY2000000A

半徑 R	公差 Tolerance	刃徑 d	公差 Tolerance
0.2R	+0.01 ~ 0	1.0	0 ~ -0.02
0.2R	+0.01 ~ 0	1.5	0 ~ -0.02
0.2R	+0.01 ~ 0	2.0	0 ~ -0.02
0.2R	+0.01 ~ 0	2.5	0 ~ -0.02
0.5R	+0.01 ~ 0	2.5	0 ~ -0.02
0.5R	+0.01 ~ 0	3.0	-0.01~-0.02
1.0R	+0.01 ~ 0	3.0	-0.01~-0.02
0.5R	+0.01 ~ 0	4.0	-0.01~-0.02
1.0R	+0.01 ~ 0	4.0	-0.01~-0.02
0.5R	+0.01 ~ 0	5.0	-0.01~-0.02
1.0R	+0.01 ~ 0	5.0	-0.01~-0.02
0.5R	+0.01 ~ 0	6.0	-0.01~-0.02
1.0R	+0.01 ~ 0	6.0	-0.01~-0.02



65



超精銑 Bright Finishing	—
精銑 Finishing	○
中銑 Semi Finishing	◎
粗銑 Roughing	⊙

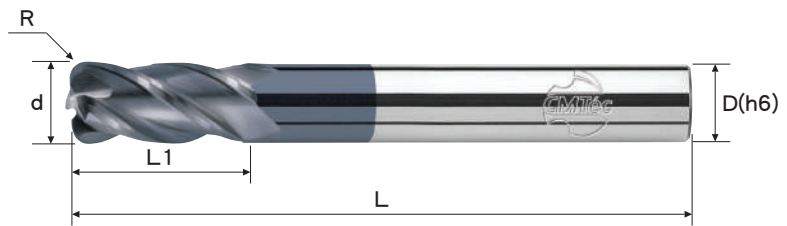
刃徑 d	R角 R	刃長 L1	全長 L	柄徑 D	刃數 F	白刀訂購編號 Uncoated Order No.	鍍膜訂購編號 Coated Order No.
1.0	0.2R	2	50	4	2	MECYM2010002	MECYM2010002A
1.5	0.2R	3	50	4	2	MECYM2015002	MECYM2015002A
2.0	0.2R	4	50	4	2	MECYM2020002	MECYM2020002A
2.5	0.2R	5	50	4	2	MECYM2025002	MECYM2025002A
2.5	0.5R	5	50	4	2	MECYM2025005	MECYM2025005A
3.0	0.5R	6	50	4	2	MECYM2030005	MECYM2030005A
3.0	1.0R	6	50	4	2	MECYM2030010	MECYM2030010A
4.0	0.5R	8	50	6	2	MECY2040005	MECY2040005A
4.0	1.0R	8	50	6	2	MECY2040010	MECY2040010A
5.0	0.5R	10	50	6	2	MECY2050005	MECY2050005A
5.0	1.0R	10	50	6	2	MECY2050010	MECY2050010A
6.0	0.5R	12	50	6	2	MECY2060005	MECY2060005A
6.0	1.0R	12	50	6	2	MECY2060010	MECY2060010A

M520 M520 Ultra Carbide End Mills M520 極細鎢鋼銑刀系列

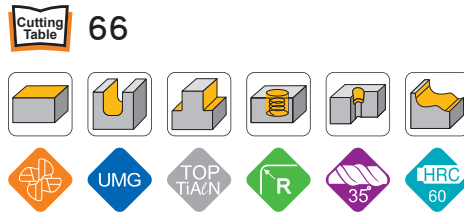
# M520 極細鎢鋼圓鼻銑刀- 標準- 高精度型- 4刃

## M520 ULTRA CARBIDE END MILLS- Corner Radius- High R Tolerance Type- 4F

MECY4000000A



半徑 R	公差 Tolerance	刃徑 d	公差 Tolerance
0.5R	+0.01 ~ 0	3.0	-0.01~-0.02
1.0R	+0.01 ~ 0	3.0	-0.01~-0.02
0.5R	+0.01 ~ 0	4.0	-0.01~-0.02
1.0R	+0.01 ~ 0	4.0	-0.01~-0.02
0.5R	+0.01 ~ 0	5.0	-0.01~-0.02
1.0R	+0.01 ~ 0	5.0	-0.01~-0.02
0.5R	+0.01 ~ 0	6.0	-0.01~-0.02
1.0R	+0.01 ~ 0	6.0	-0.01~-0.02



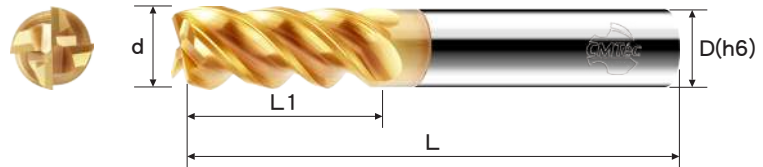
超精銑 Bright Finishing	<input type="radio"/>
精銑 Finishing	<input checked="" type="radio"/>
中銑 Semi Finishing	<input type="radio"/>
粗銑 Roughing	<input type="radio"/>

刃徑 d	R角 R	刃長 L1	全長 L	柄徑 D	刃數 F	白刀訂購編號 Uncoated Order No.	鍍膜訂購編號 Coated Order No.
3.0	0.5R	6	50	6	4	MECY4030005	MECY4030005A
3.0	1.0R	6	50	6	4	MECY4030010	MECY4030010A
4.0	0.5R	8	50	6	4	MECY4040005	MECY4040005A
4.0	1.0R	8	50	6	4	MECY4040010	MECY4040010A
5.0	0.5R	10	50	6	4	MECY4050005	MECY4050005A
5.0	1.0R	10	50	6	4	MECY4050010	MECY4050010A
6.0	0.5R	12	50	6	4	MECY4060005	MECY4060005A
6.0	1.0R	12	50	6	4	MECY4060010	MECY4060010A

# M520 極細鎢鋼平銑刀- 不等距高導型- 4刃

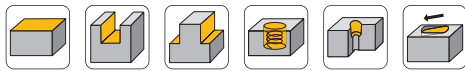
M520 ULTRA CARBIDE END MILLS- Unequal Flute Spacing Angle- Square Type- High Helix- 4F

## MEHU40000A



刃徑 d	公差 Tolerance
$\phi < 3$	$0 \sim -0.02$
$3 \leq \phi \leq 10$	$-0.01 \sim -0.03$
$10 < \phi$	$-0.01 \sim -0.04$

超精銑 Bright Finishing	—
精銑 Finishing	◎
中銑 Semi Finishing	◎
粗銑 Roughing	○



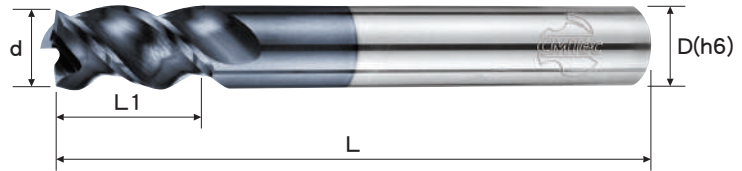
刃徑 d	刃長 L1	全長 L	柄徑 D	刃數 F	鍍膜訂購編號 Coated Order No.
3.0	8	50	4	4	MEHUM40300A
4.0	10	50	4	4	MEHUM40400A
3.0	8	50	6	4	MEHU40300A
4.0	10	50	6	4	MEHU40400A
5.0	13	50	6	4	MEHU40500A
6.0	15	50	6	4	MEHU40600A
6.0	18	50	6	4	MEHU40600180CA
8.0	20	60	8	4	MEHU40800A
8.0	24	60	8	4	MEHU40800240CA
10.0	25	75	10	4	MEHU41000A
10.0	30	75	10	4	MEHU41000300CA
12.0	30	75	12	4	MEHU41200A
12.0	36	75	12	4	MEHU41200360CA
16.0	35	100	16	4	MEHU41600A



# M520 極細鎢鋼平銑刀- 強重短刃型- 3刃

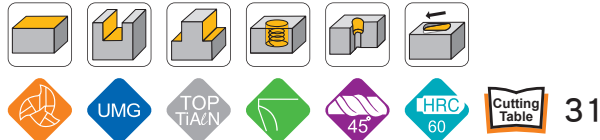
M520 ULTRA CARBIDE END MILLS- Square Type- Short Flute For Heavy- Duty Cutting- 3F

## MEHHD30000A



刃徑 d	公差 Tolerance
$\phi < 3$	0 ~ -0.02
$3 \leq \phi \leq 10$	-0.01 ~ -0.03
$10 < \phi$	-0.01 ~ -0.04

超精銑 Bright Finishing	—
精銑 Finishing	○
中銑 Semi Finishing	◎
粗銑 Roughing	◎

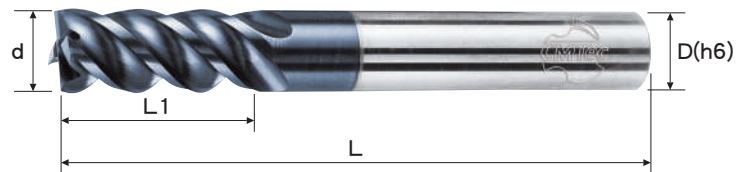


刃徑 d	刃長 L1	全長 L	柄徑 D	刃數 F	鍍膜訂購編號 Coated Order No.
3.0	4.5	50	6	3	MEHHD30300A
4.0	6.0	50	6	3	MEHHD30400A
5.0	7.5	50	6	3	MEHHD30500A
6.0	9.0	50	6	3	MEHHD30600A
8.0	12.0	60	8	3	MEHHD30800A
10.0	15.0	75	10	3	MEHHD31000A
12.0	18.0	75	12	3	MEHHD31200A

# M520 極細鎢鋼平銑刀- 強重短刃型- 4刃

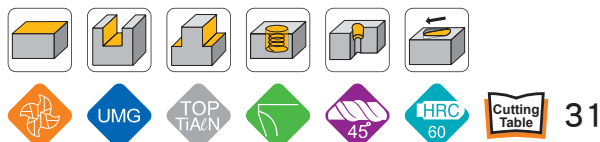
M520 ULTRA CARBIDE END MILLS- Square Type- Short Flute For Heavy- Duty Cutting- 4F

## MEHHD40000A



刃徑 d	公差 Tolerance
$\phi < 3$	0 ~ -0.02
$3 \leq \phi \leq 10$	-0.01 ~ -0.03
$10 < \phi$	-0.01 ~ -0.04

超精銑 Bright Finishing	—
精銑 Finishing	○
中銑 Semi Finishing	◎
粗銑 Roughing	◎



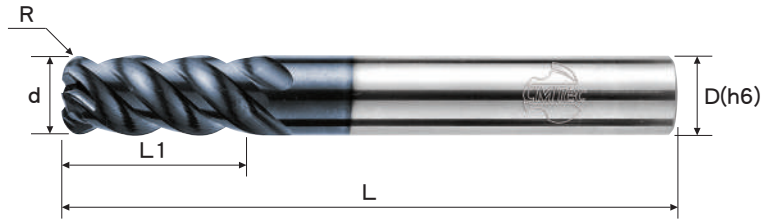
刃徑 d	刃長 L1	全長 L	柄徑 D	刃數 F	鍍膜訂購編號 Coated Order No.
3.0	4.5	50	6	4	MEHHD40300A
4.0	6.0	50	6	4	MEHHD40400A
5.0	7.5	50	6	4	MEHHD40500A
6.0	9.0	50	6	4	MEHHD40600A
8.0	12.0	60	8	4	MEHHD40800A
10.0	15.0	75	10	4	MEHHD41000A
12.0	18.0	75	12	4	MEHHD41200A



# M520 極細鎢鋼圓鼻銑刀- 強重型- 4刃

M520 ULTRA CARBIDE END MILLS- Corner Radius For Heavy- Duty Cutting- 4F

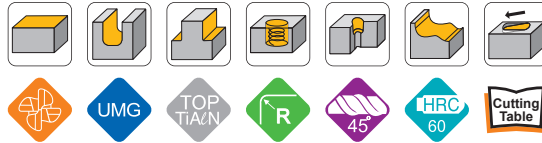
MEHHCR4000000A



刃徑 d	公差 Tolerance
$\phi < 3$	0 ~ -0.02
$3 \leq \phi \leq 10$	-0.01 ~ -0.03
$10 < \phi$	-0.01 ~ -0.04

半徑 R	公差 Tolerance
R	$\pm 0.02$

超精銑 Bright Finishing	—
精銑 Finishing	◎
中銑 Semi Finishing	◎
粗銑 Roughing	◎



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刃徑 d	R角 R	刃長 L1	全長 L	柄徑 D	刃數 F	鍍膜訂購編號 Coated Order No.
3.0	0.2R	8	50	6	4	MEHHCR4030002A
3.0	0.5R	8	50	6	4	MEHHCR4030005A
4.0	0.2R	11	50	6	4	MEHHCR4040002A
4.0	0.5R	11	50	6	4	MEHHCR4040005A
4.0	1.0R	11	50	6	4	MEHHCR4040010A
5.0	0.2R	13	50	6	4	MEHHCR4050002A
5.0	0.5R	13	50	6	4	MEHHCR4050005A
5.0	1.0R	13	50	6	4	MEHHCR4050010A
6.0	0.3R	13	50	6	4	MEHHCR4060003A
6.0	0.5R	13	50	6	4	MEHHCR4060005A
6.0	1.0R	13	50	6	4	MEHHCR4060010A
8.0	0.3R	19	60	8	4	MEHHCR4080003A
8.0	0.5R	19	60	8	4	MEHHCR4080005A
8.0	1.0R	19	60	8	4	MEHHCR4080010A
8.0	1.5R	19	60	8	4	MEHHCR4080015A
8.0	2.0R	19	60	8	4	MEHHCR4080020A
10.0	0.3R	22	75	10	4	MEHHCR4100003A
10.0	0.5R	22	75	10	4	MEHHCR4100005A
10.0	1.0R	22	75	10	4	MEHHCR4100010A
10.0	1.5R	22	75	10	4	MEHHCR4100015A
10.0	2.0R	22	75	10	4	MEHHCR4100020A
10.0	3.0R	22	75	10	4	MEHHCR4100030A
12.0	0.5R	26	75	12	4	MEHHCR4120005A
12.0	1.0R	26	75	12	4	MEHHCR4120010A
12.0	1.5R	26	75	12	4	MEHHCR4120015A
12.0	2.0R	26	75	12	4	MEHHCR4120020A
12.0	3.0R	26	75	12	4	MEHHCR4120030A
16.0	1.0R	35	100	16	4	MEHHCR4160010A
16.0	1.5R	35	100	16	4	MEHHCR4160015A
16.0	2.0R	35	100	16	4	MEHHCR4160020A
16.0	3.0R	35	100	16	4	MEHHCR4160030A
20.0	1.0R	40	100	20	4	MEHHCR4200010A
20.0	1.5R	40	100	20	4	MEHHCR4200015A
20.0	2.0R	40	100	20	4	MEHHCR4200020A
20.0	3.0R	40	100	20	4	MEHHCR4200030A

→ 切削條件表 Cutting Condition P.550 → 技術資料 Technical Data P.622

M520

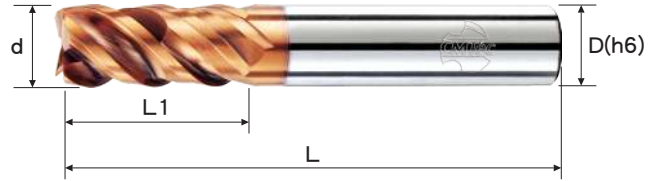
M520 Ultra Carbide End Mills

M520 極細鎢鋼銑刀系列

# M520 極細鎢鋼平銑刀- 不等距雙心徑型- 4刃

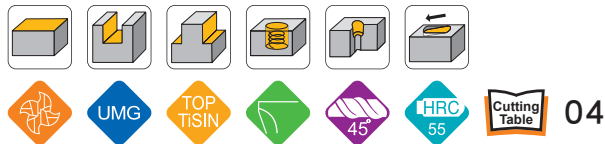
M520 ULTRA CARBIDE END MILLS- Square Type- Unequal Flute Spacing Angle- Duo Core Dia- 4F

## · MEP40000A



刃徑 d	公差 Tolerance
$\phi < 3$	0 ~ -0.02
$3 \leq \phi \leq 10$	-0.01 ~ -0.03
$10 < \phi$	-0.01 ~ -0.04

超精銑 Bright Finishing	—
精銑 Finishing	◎
中銑 Semi Finishing	◎
粗銑 Roughing	◎



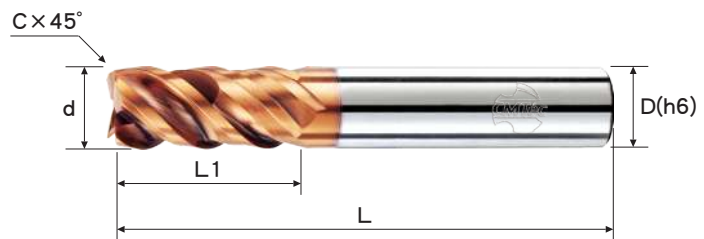
刃徑 d	刃長 L1	全長 L	柄徑 D	刃數 F	鍍膜訂購編號 Coated Order No.
4.0	10	50	6	4	MEP40400A
5.0	12	50	6	4	MEP40500A
6.0	14	50	6	4	MEP40600A
8.0	18	60	8	4	MEP40800A
10.0	22	75	10	4	MEP41000A
12.0	26	75	12	4	MEP41200A

→ 切削條件表 Cutting Condition P.536 → 技術資料 Technical Data P.622

# M520 極細鎢鋼平銑刀- 不等距雙心徑倒角型- 4刃

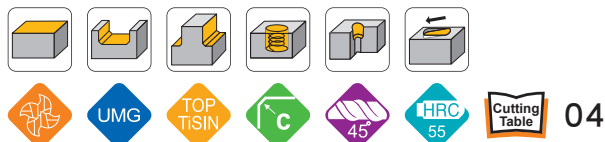
M520 ULTRA CARBIDE END MILLS- Square Type- Unequal Flute Spacing Angle- Duo Core Dia- Chamfering- 4F

## · MEP40000-C0000A



刃徑 d	公差 Tolerance
$\phi < 3$	0 ~ -0.02
$3 \leq \phi \leq 10$	-0.01 ~ -0.03
$10 < \phi$	-0.01 ~ -0.04

超精銑 Bright Finishing	—
精銑 Finishing	◎
中銑 Semi Finishing	◎
粗銑 Roughing	◎



刃徑 d	倒C角 C(Max)	刃長 L1	全長 L	柄徑 D	刃數 F	鍍膜訂購編號 Coated Order No.
4.0	0.2	10	50	6	4	MEP40400-C0020A
5.0	0.2	12	50	6	4	MEP40500-C0020A
6.0	0.2	14	50	6	4	MEP40600-C0020A
8.0	0.3	18	60	8	4	MEP40800-C0030A
10.0	0.3	22	75	10	4	MEP41000-C0030A
12.0	0.4	26	75	12	4	MEP41200-C0040A

→ 切削條件表 Cutting Condition P.536 → 技術資料 Technical Data P.622

M520

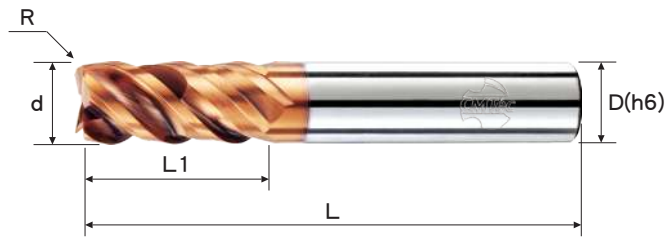
M520 Ultra Carbide End Mills

M520 極細鎢鋼銑刀系列

# M520 極細鎢鋼平銑刀- 不等距雙心徑圓角型- 4刃

M520 ULTRA CARBIDE END MILLS- Square Type- Unequal Flute Spacing Angle- Duo Core Dia- Corner Radius- 4F

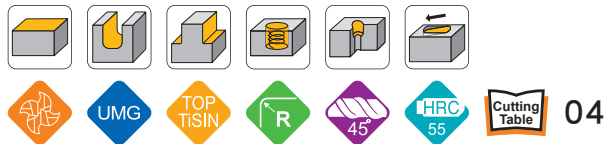
· MEP40000-R0000A



刃徑 d	公差 Tolerance
$\phi < 3$	0 ~ -0.02
$3 \leq \phi \leq 10$	-0.01 ~ -0.03
$10 < \phi$	-0.01 ~ -0.04

R角	公差 Tolerance
R	$\pm 0.02$

超精銑 Bright Finishing	—
精銑 Finishing	◎
中銑 Semi Finishing	◎
粗銑 Roughing	◎



刃徑 d	R角 R	刃長 L1	全長 L	柄徑 D	刃數 F	鍍膜訂購編號 Coated Order No.
4.0	0.2R	10	50	6	4	MEP40400-R0020A
5.0	0.2R	12	50	6	4	MEP40500-R0020A
6.0	0.2R	14	50	6	4	MEP40600-R0020A
8.0	0.5R	18	60	8	4	MEP40800-R0050A
10.0	0.5R	22	75	10	4	MEP41000-R0050A
12.0	0.5R	26	75	12	4	MEP41200-R0050A

→ 切削條件表 Cutting Condition P.536

→ 技術資料 Technical Data P.622

M520

M520 Ultra Carbide End Mills

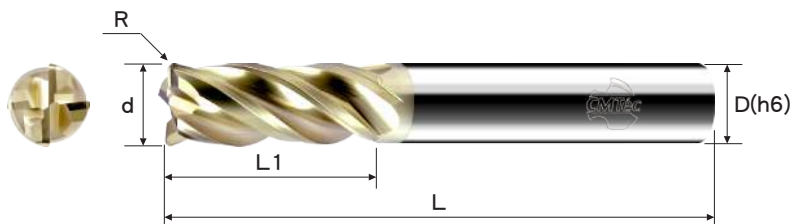
M520 極細鎢鋼銑刀系列



# M520 極細鎢鋼鈦合金用圓鼻銑刀- 高效型- 4刃

M520 ULTRA CARBIDE END MILLS FOR TITANIUM- Corner Radius- High Performance- 4F

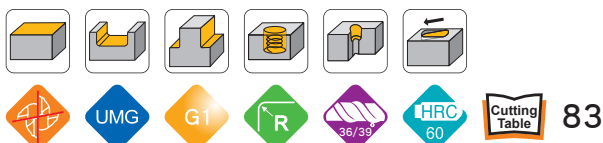
## METVC40000A



刃徑 d	公差 Tolerance
$\phi < 3$	0 ~ -0.02
$3 \leq \phi \leq 10$	-0.01 ~ -0.03
$10 < \phi$	-0.01 ~ -0.04

半徑 R	公差 Tolerance
R	$\pm 0.02$

超精銑 Bright Finishing	—
精銑 Finishing	◎
中銑 Semi Finishing	◎
粗銑 Roughing	◎



NEW

刃徑 d	R角 R	刃長 L1	全長 L	柄徑 D	刃數 F	鍍膜訂購編號 Coated Order No.
3.0	0.2R	8	50	6	4	METVC4030002A
3.0	0.5R	8	50	6	4	METVC4030005A
4.0	0.2R	10	50	6	4	METVC4040002A
4.0	0.5R	10	50	6	4	METVC4040005A
4.0	1.0R	10	50	6	4	METVC4040010A
5.0	0.2R	13	50	6	4	METVC4050002A
5.0	0.5R	13	50	6	4	METVC4050005A
5.0	1.0R	13	50	6	4	METVC4050010A
5.0	1.5R	13	50	6	4	METVC4050015A
6.0	0.3R	15	50	6	4	METVC4060003A
6.0	0.5R	15	50	6	4	METVC4060005A
6.0	1.0R	15	50	6	4	METVC4060010A
8.0	0.3R	20	60	8	4	METVC4080003A
8.0	0.5R	20	60	8	4	METVC4080005A
8.0	1.0R	20	60	8	4	METVC4080010A
8.0	1.5R	20	60	8	4	METVC4080015A
8.0	2.0R	20	60	8	4	METVC4080020A
10.0	0.3R	25	75	10	4	METVC4100003A
10.0	0.5R	25	75	10	4	METVC4100005A
10.0	1.0R	25	75	10	4	METVC4100010A
10.0	1.5R	25	75	10	4	METVC4100015A
10.0	2.0R	25	75	10	4	METVC4100020A
10.0	3.0R	25	75	10	4	METVC4100030A
12.0	0.5R	30	75	12	4	METVC4120005A
12.0	1.0R	30	75	12	4	METVC4120010A
12.0	1.5R	30	75	12	4	METVC4120015A
12.0	2.0R	30	75	12	4	METVC4120020A
12.0	3.0R	30	75	12	4	METVC4120030A

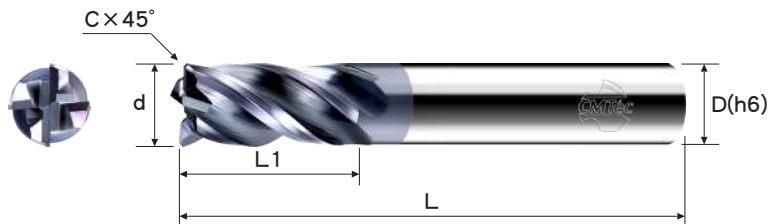
→ 切削條件表 Cutting Condition P.580 → 技術資料 Technical Data P.622

M520 M520 Ultra Carbide End Mills M520 極細鎢鋼銑刀系列

# M520 極細鎢鋼鋼用平銑刀- 高效型- 4刃

M520 ULTRA CARBIDE END MILLS FOR ALLOY STEEL- High Performance- 4F

MEV40000A



刃徑 d	公差 Tolerance
$\phi < 3$	0 ~ -0.02
$3 \leq \phi \leq 10$	-0.01 ~ -0.03
$10 < \phi$	-0.01 ~ -0.04

超精銑 Bright Finishing	—
精銑 Finishing	◎
中銑 Semi Finishing	◎
粗銑 Roughing	◎



67,68

NEW SIZE



刃徑 d	倒C角 C(Max)	刃長 L1	全長 L	柄徑 D	刃數 F	鍍膜訂購編號 Coated Order No.
3.0	0.1	6	50	6	4	MEV40300A
4.0	0.2	8	50	6	4	MEV40400A
4.0	0.2	12	50	6	4	MEV40400120CA
5.0	0.2	10	50	6	4	MEV40500A
6.0	0.2	12	50	6	4	MEV40600A
6.0	0.2	18	50	6	4	MEV40600180CA
8.0	0.3	16	60	8	4	MEV40800A
8.0	0.3	24	60	8	4	MEV40800240CA
10.0	0.3	20	75	10	4	MEV41000A
10.0	0.3	30	75	10	4	MEV41000300CA
12.0	0.4	24	75	12	4	MEV41200A
12.0	0.4	36	75	12	4	MEV41200360CA

→ 切削條件表 Cutting Condition P.569, 570 → 技術資料 Technical Data P.622

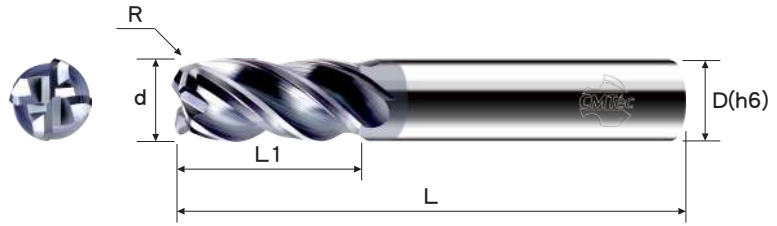
M520 M520 Ultra Carbide End Mills M520 極細鎢鋼銑刀系列



# M520 極細鎢鋼鋼用圓鼻銑刀- 高效型- 4刃

M520 ULTRA CARBIDE END MILLS FOR ALLOY STEEL- Corner Radius- High Performance- 4F

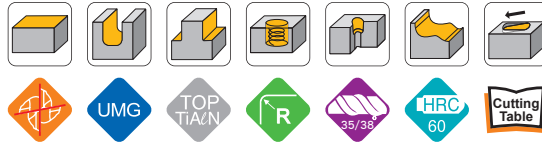
MEVC4000000A



刃徑 d	公差 Tolerance
$\phi < 3$	0 ~ -0.02
$3 \leq \phi \leq 10$	-0.01 ~ -0.03
$10 < \phi$	-0.01 ~ -0.04

半徑 R	公差 Tolerance
R	$\pm 0.02$

超精銑 Bright Finishing	—
精銑 Finishing	◎
中銑 Semi Finishing	◎
粗銑 Roughing	◎



69,70

刃徑 d	R角 R	刃長 L1	全長 L	柄徑 D	刃數 F	鍍膜訂購編號 Coated Order No.
3.0	0.2R	8	50	6	4	MEVC4030002A
3.0	0.5R	8	50	6	4	MEVC4030005A
4.0	0.2R	11	50	6	4	MEVC4040002A
4.0	0.5R	11	50	6	4	MEVC4040005A
4.0	1.0R	11	50	6	4	MEVC4040010A
5.0	0.2R	13	50	6	4	MEVC4050002A
5.0	0.5R	13	50	6	4	MEVC4050005A
5.0	1.0R	13	50	6	4	MEVC4050010A
6.0	0.3R	13	50	6	4	MEVC4060003A
6.0	0.5R	13	50	6	4	MEVC4060005A
6.0	1.0R	13	50	6	4	MEVC4060010A
8.0	0.3R	19	60	8	4	MEVC4080003A
8.0	0.5R	19	60	8	4	MEVC4080005A
8.0	1.0R	19	60	8	4	MEVC4080010A
8.0	1.5R	19	60	8	4	MEVC4080015A
8.0	2.0R	19	60	8	4	MEVC4080020A
10.0	0.3R	22	75	10	4	MEVC4100003A
10.0	0.5R	22	75	10	4	MEVC4100005A
10.0	1.0R	22	75	10	4	MEVC4100010A
10.0	1.5R	22	75	10	4	MEVC4100015A
10.0	2.0R	22	75	10	4	MEVC4100020A
10.0	3.0R	22	75	10	4	MEVC4100030A
12.0	0.5R	26	75	12	4	MEVC4120005A
12.0	1.0R	26	75	12	4	MEVC4120010A
12.0	1.5R	26	75	12	4	MEVC4120015A
12.0	2.0R	26	75	12	4	MEVC4120020A
12.0	3.0R	26	75	12	4	MEVC4120030A
16.0	1.0R	35	100	16	4	MEVC4160010A
16.0	1.5R	35	100	16	4	MEVC4160015A
16.0	2.0R	35	100	16	4	MEVC4160020A
16.0	3.0R	35	100	16	4	MEVC4160030A
20.0	1.0R	40	100	20	4	MEVC4200010A
20.0	1.5R	40	100	20	4	MEVC4200015A
20.0	2.0R	40	100	20	4	MEVC4200020A
20.0	3.0R	40	100	20	4	MEVC4200030A

→ 切削條件表 Cutting Condition P.570, 571 → 技術資料 Technical Data P.622

M520

M520 Ultra Carbide End Mills

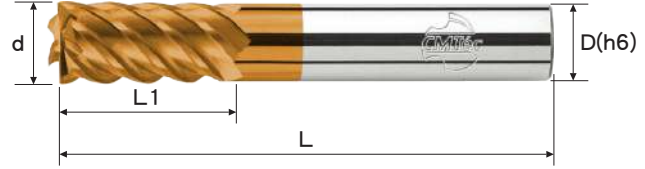
M520 極細鎢鋼銑刀系列



# M520 極細鎢鋼平銑刀- 高硬型- 6刃

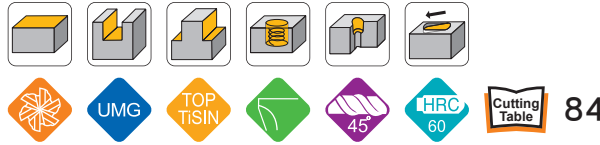
## M520 ULTRA MICRO GRAIN CARBIDE END MILLS- High Hardness- 6F

### · MED60000A



刃徑 d	公差 Tolerance
$\phi < 3$	0 ~ -0.02
$3 \leq \phi \leq 10$	-0.01 ~ -0.03
$10 < \phi$	-0.01 ~ -0.04

超精銑 Bright Finishing	○
<b>精銑 Finishing</b>	◎
中銑 Semi Finishing	◎
粗銑 Roughing	—



刃徑 d	刃長 L1	全長 L	柄徑 D	刃數 F	鍍膜訂購編號 Coated Order No.
6.0	15	50	6	6	MED60600A
8.0	20	60	8	6	MED60800A
10.0	25	75	10	6	MED61000A
12.0	30	75	12	6	MED61200A
14.0	30	75	14	6	MED61400A
16.0	40	100	16	6	MED61600A
18.0	40	100	18	6	MED61800A
20.0	45	100	20	6	MED62000A
25.0	45	100	25	6	MED62500A

M520

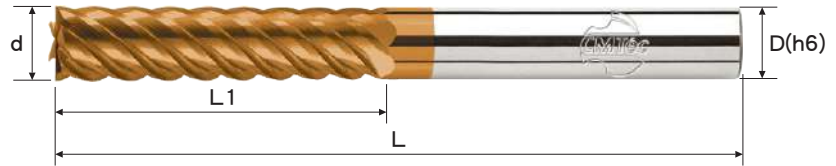
M520 Ultra Carbide End Mills

M520 極細鎢鋼銑刀系列

# M520 極細鎢鋼平銑刀- 高硬長刃型- 6刃

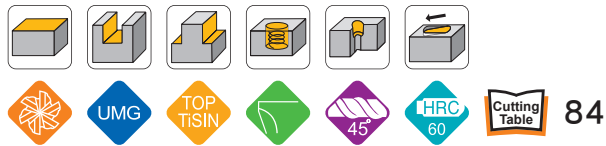
M520 ULTRA MICRO GRAIN CARBIDE END MILLS- High Hardness & Long Flute- 6F

· MEDF60000A



刃徑 d	公差 Tolerance
$\phi < 3$	0 ~ -0.02
$3 \leq \phi \leq 10$	-0.01 ~ -0.03
$10 < \phi$	-0.01 ~ -0.04

超精銑 Bright Finishing	○
<b>精銑 Finishing</b>	<b>◎</b>
中銑 Semi Finishing	⊙
粗銑 Roughing	—

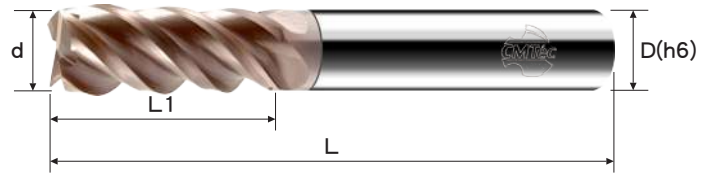


刃徑 d	刃長 L1	全長 L	柄徑 D	刃數 F	鍍膜訂購編號 Coated Order No.
6.0	35	75	6	6	MEDF60600A
8.0	45	100	8	6	MEDF60800A
10.0	55	100	10	6	MEDF61000A
12.0	55	100	12	6	MEDF61200A
14.0	75	150	14	6	MEDF61400A
16.0	75	150	16	6	MEDF61600A
18.0	90	150	18	6	MEDF61800A
20.0	90	150	20	6	MEDF62000A
25.0	90	150	25	6	MEDF62500A

# M520 極細鎢鋼不銹鋼用平銑刀- 高導型- 4刃

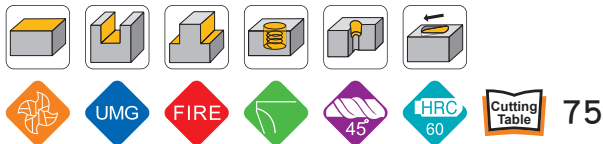
## M520 ULTRA CARBIDE END MILLS For STAINLESS- High Helix- Square Type- 4F

- MEMHM40000F
- MEMH40000F



刃徑 d	公差 Tolerance
$\phi < 3$	0 ~ -0.02
$3 \leq \phi \leq 10$	-0.01 ~ -0.03
$10 < \phi$	-0.01 ~ -0.04

超精銑 Bright Finishing	—
精銑 Finishing	◎
中銑 Semi Finishing	◎
粗銑 Roughing	◎



刃徑 d	刃長 L1	全長 L	柄徑 D	刃數 F	鍍膜訂購編號 Coated Order No.
1.0	3	50	4	4	MEMHM40100F
2.0	5	50	4	4	MEMHM40200F
3.0	8	50	4	4	MEMHM40300F
4.0	10	50	4	4	MEMHM40400F
2.0	5	50	6	4	MEMH40200F
3.0	8	50	6	4	MEMH40300F
4.0	10	50	6	4	MEMH40400F
5.0	13	50	6	4	MEMH40500F
6.0	15	50	6	4	MEMH40600F
7.0	18	60	8	4	MEMH40700F
8.0	20	60	8	4	MEMH40800F
10.0	25	75	10	4	MEMH41000F
12.0	30	75	12	4	MEMH41200F
14.0	30	75	14	4	MEMH4140014F
15.0	35	100	16	4	MEMH41500F
16.0	35	100	16	4	MEMH41600F
18.0	40	100	20	4	MEMH41800F
20.0	45	100	20	4	MEMH42000F
25.0	45	100	25	4	MEMH42500F

→ 切削條件表 P.574 Cutting Condition → 技術資料 P.622 Technical Data

M520 M520 Ultra Carbide End Mills M520 極細鎢鋼銑刀系列

MEMO



A series of horizontal lines for writing a memo.

**M520**

M520 Ultra Carbide End Mills

M520 極細鎢鋼銑刀系列