

S220

鎢鋼銑刀系列

Micro Grain Carbide End Mills Series

泛用鋼材 $\leq 50\text{HRC}$

鑄鐵

鋁合金 / 銅合金

For general steel ($\leq 50\text{HRC}$), cast iron and aluminum/copper alloy machining.

零件加工專用刀具。

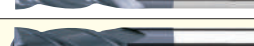
Cutting tools for parts and components processing.

包裝盒蓋 / 黃色

Color of S220 packaging box / Yellow



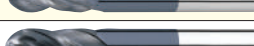
產品選擇表 Product Selection Table

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
鎖牙式- S220鎢鋼銑刀頭系列 Thread- S220 Carbide End Mills Series						
平刀 Square	四刃 4 Flutes	CHS40000A	鎖牙式 -Thread		Ø8 ~ Ø32	26
球刀 Ball	四刃 4 Flutes	CHB40000A	鎖牙式 -Thread		4.0R ~ 12.5R	27
圓鼻刀 Corner Radius	四刃 4 Flutes	CHCR4000000A	鎖牙式 -Thread		Ø8 ~ Ø20	28
鎢鋼抗震刀桿 Carbide Anti-Vibration Holder		LCL000-000L	同柄型 -Straight Shank		Ø8 ~ Ø32	29
		LCN000-000L-000E	頸型 -Neck		Ø11.7~Ø31.5	30
S220鎢鋼銑刀系列 S220 Carbide End Mills Series 應用於泛用鋼材(≦50HRC)加工 For General Steel (≦50HRC) Machining.						
平刀 Square	二刃 2 Flutes	CESS20000A	微小徑型 -Micro Dia.		Ø0.2 ~ Ø3.0	31
		CESM20000A			Ø0.2 ~ Ø4.0	31
		CES20000A			Ø1 ~ Ø25	32
	三刃 3 Flutes	CESM30000A			Ø2 ~ Ø4	33
		CES30000A			Ø2 ~ Ø16	33
	四刃 4 Flutes	CESS40000A			Ø1 ~ Ø3	34
		CESM40000A			Ø1 ~ Ø4	34
		CES40000A			Ø3 ~ Ø25	35
	二刃 2 Flutes	CESM20000A	點數型 -Decimal Dia.		Ø1.1 ~ Ø3.9	36
點數 / 英吋 Decimal / Inch Dia. Square		CES20000A	點數型 -Decimal Dia.		Ø1.1 ~ Ø10.9	37 ~ 39
		CEI20000A	英吋型 -Inch Dia.		Ø1.58~Ø12.7	40
(特)長刃平刀 (Extra) Long Flute Square	二刃 2 Flutes	CELFM20000A			Ø2 ~ Ø4	41
		CELF20000A			Ø3 ~ Ø25	41
		CEFF20000A	特長刃型 -Extra		Ø10 ~ Ø20	41
(特)長刃平刀 (Extra) Long Flute Square	四刃 4 Flutes	CELFM40000A			Ø1 ~ Ø4	42
		CELF40000A			Ø3 ~ Ø25	42
		CEFF40000A	特長刃型 -Extra		Ø10 ~ Ø20	42
長柄平刀 Long Shank Flute	二刃 2 Flutes	CELS20000A			Ø3 ~ Ø12	43
	四刃 4 Flutes	CELS40000A			Ø3 ~ Ø20	43

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			
 Carbon Steels (<20HRC)	 Alloy Steels (20~30HRC)	 Alloy Steels (30~45HRC)	 Hardened Steels (45~55HRC)	 Hardened Steels (55~65HRC)	 Stainless Steels	 Cast Iron	 Aluminum Alloys	 Copper	 Non-metal	 High Temp Alloys		A	B	C	D
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○	○	○	—	—	○	○	—	—	—	—	乾式 / 濕式 (Dry / Wet)	○	◎	○	—
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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
S220 鎢鋼銑刀系列 S220 Carbide End Mills Series 應用於泛用鋼材(≦50HRC)加工 For General Steel (≦50HRC) Machining.						
長頸平刀 Long Neck Square	二刃 2 Flutes	CEN20000000A			Ø1 ~ Ø4	44
	四刃 4 Flutes	CEN40000000A			Ø1 ~ Ø4	45
斜度平刀 Taper Square	二刃 2 Flutes	CETF2000000A			Ø1 ~ Ø10	46 ~ 48
平刀 Square	三刃 3 Flutes	CEH30000A	高導型 -High Helix		Ø3 ~ Ø20	49
	四刃 4 Flutes	CEHM40000A	高導型 -High Helix		Ø1 ~ Ø2	50
	四刃 4 Flutes	CEH40000A	高導型 -High Helix		Ø1 ~ Ø20	50
長刃平刀 Long Flute Square	四刃 4 Flutes	CEHF40000A	高導型 -High Helix		Ø3 ~ Ø20	51
平刀(精精型) Semi-finishing	三刃 3 Flutes	CER30000A	高導型 -High Helix		Ø6 ~ Ø20	52
	四刃 4 Flutes	CER40000A	高導型 -High Helix		Ø6 ~ Ø20	52
粗銑平刀 Roughing Square	三刃 3 Flutes	CERR30000A			Ø6 ~ Ø20	53
	四刃 4 Flutes	CERR40000A			Ø6 ~ Ø20	53
S220 鎢鋼銑刀系列 S220 Carbide End Mills Series 應用於泛用鋼材(≦50HRC)加工 For General Steel (≦50HRC) Machining.						
球刀 Ball	二刃 2 Flutes	CEBS20000A	微小徑型 -Micro Dia.		0.1R ~ 1.5R	54
		CEBM20000A	微小徑型 -Micro Dia.		0.1R ~ 0.45R	54
		CEBM20000A			0.5R ~ 2.0R	55
		CEB20000A			0.5R ~ 10R	55
	三刃 3 Flutes	CEB30000A			1R ~ 10R	56
	四刃 4 Flutes	CEBM40000A			1R ~ 2R	57
		CEB40000A			3R ~ 8R	57
(特)長柄球刀 (Extra)Long Shank Ball	二刃 2 Flutes	CEBML20000A			0.5R ~ 2.0R	58
		CEBL20000A			1R ~ 10R	58
		CEBMLL20000A	特長柄型 -Extra		1R ~ 2R	59
		CEBLL20000A	特長柄型 -Extra		1R ~ 10R	59
長柄球刀 Long Shank Ball	四刃 4 Flutes	CEBML40000A			1R ~ 2R	60
		CEBL40000A			3R ~ 8R	60
長頸球刀 Long Neck Ball	二刃 2 Flutes	CEBN20000000A			0.5R ~ 2.0R	61
斜頸球刀 Taper Neck Ball	二刃 2 Flutes	CENL20000A			1R ~ 6R	62
	四刃 4 Flutes	CENL40000A			1R ~ 6R	62

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			
P	P	P	H	H	M	K	N	N	X	S		A	B	C	D
○	○	○	—	—	○	◎	—	—	—	—	乾式 / 濕式 (Dry / Wet)	—	○	◎	○
○	○	○	—	—	○	◎	—	—	—	—	乾式 / 濕式 (Dry / Wet)	○	◎	○	—
○	○	○	—	—	○	◎	—	—	—	—	乾式 / 濕式 (Dry / Wet)	—	○	◎	○
○	○	○	○	—	○	◎	—	○	—	—	乾式 / 濕式 (Dry / Wet)	○	◎	◎	○
○	○	○	○	—	○	◎	—	○	—	—	乾式 / 濕式 (Dry / Wet)	○	◎	◎	○
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○	○	○	○	—	○	◎	—	○	—	—	乾式 / 濕式 (Dry / Wet)	○	◎	◎	○
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○	○	○	—	—	○	◎	—	—	—	—	乾式 / 濕式 (Dry / Wet)	—	○	◎	○
○	○	○	—	—	○	◎	—	—	—	—	乾式 / 濕式 (Dry / Wet)	○	◎	○	—
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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

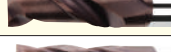
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斜度球刀 Taper Ball	二刃 2 Flutes	CETB2000000A			1R ~ 3R	63
球殼刀 Semi Sphere Ball	二刃 2 Flutes	CEO20000000A	球頭240° -Semi Sphere 240°		1R ~ 6R	64
		CEO20000000A	球頭270° -Semi Sphere 270° NEW		1R ~ 6R	65
	四刃 4 Flutes	CEO40000000A	球頭240° -Semi Sphere 240°		2.5 ~ 6.0R	66
圓鼻刀 Corner Radius	二刃 2 Flutes	CECRM2000000A			Ø1 ~ Ø4	67
		CECR2000000A			Ø4 ~ Ø12	67
	四刃 4 Flutes	CECR(M)4000000A			Ø1 ~ Ø12	68
長柄圓鼻刀 Long Shank Corner Radius	四刃 4 Flutes	CECL(M)4000000A			Ø3 ~ Ø12	69
斜頸圓鼻刀 Taper Neck Corner Radius	二刃 2 Flutes	CECNL2000000000A			Ø2 ~ Ø6	70
應用於鋁合金加工 For Aluminum Machining.						
平刀 Square	二刃 2 Flutes	CEXS20000	高導型 -High Helix		Ø1 ~ Ø3	71
		CEXM20000	高導型 -High Helix		Ø1 ~ Ø2	71
		CEX20000	高導型 -High Helix		Ø3 ~ Ø20	71
	三刃 3 Flutes	CEXS30000	高導型 -High Helix		Ø3	72
		CEXM30000	高導型 -High Helix		Ø1 ~ Ø4	72
		CEX30000	高導型 -High Helix		Ø1 ~ Ø20	72
	三刃 3 Flutes	CEXX30000	特高導型 -Extra High Helix		Ø3 ~ Ø20	73
長刃平刀 Long Flute Square	三刃 3 Flutes	CEXHF(M)30000R	強力型 -Power Cutting NEW		Ø3 ~ Ø20	74
球刀 Ball	二刃 2 Flutes	CEXBM20000	高導型 -High Helix		1R ~ 2R	75
		CEXB20000	高導型 -High Helix NEW		1R ~ 8R	75
長柄球刀 Long Shank Ball	二刃 2 Flutes	CEXBL20000	高導型 -High Helix		1R ~ 8R	75
平刀(波浪型) Square(Sinus Edge-Wave)	三刃 3 Flutes	CEXRS30000	高導型 -High Helix		Ø6 ~ Ø20	76
平刀 Square	三刃 3 Flutes	CEXSH(M)30000R	強力型 -Power Cutting NEW		Ø2 ~ Ø20	77
圓鼻刀 Corner Radius	三刃 3 Flutes	CEXCRSH(M)30000	強力型 -Power Cutting		Ø2 ~ Ø20	78
應用於鋁合金高效率加工 For Aluminum Machining with High Efficiency. 不等距 & 不等螺旋角抗震設計 Chattering is decreased with unequal flute spacing angle & nonequivalent helix angle.						
平刀 Square	三刃 3 Flutes	CEXV30000	高效型 -High Performance		Ø3 ~ Ø16	79
		CEXV30000-C0000	高效倒角型 -High Performance-Chamfering		Ø3 ~ Ø16	80

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			
P	P	P	H	H	M	K	N	N	X	S		A	B	C	D
○	○	○	—	—	○	○	—	—	—	—	乾式 / 濕式 (Dry / Wet)	—	○	◎	○
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—	—	—	—	—	—	—	○	○	—	—	濕式(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

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
應用於鑄鐵、不銹鋼、鈦合金、鋁合金(含矽>7%)、銅鋁加工 For Cast Iron, Stainless Steel, Titanium Alloy, Aluminum Alloy(Si>7%), Copper and Aluminum Machining.						
平刀(波浪型) Square (Sinus Edge-Wave)	二刃 2 Flutes	CERS20000A			Ø6 ~ Ø12	81
	三刃 3 Flutes	CERS30000A			Ø6 ~ Ø20	81
	四刃 4 Flutes	CERS40000A			Ø6 ~ Ø20	81
平刀(強力型) Square (Power Cutting)	二刃 2 Flutes	CESH(M)20000F			Ø2 ~ Ø16	82
	四刃 4 Flutes	CESH(M)40000F			Ø2 ~ Ø16	82
	二刃 2 Flutes	CEHS(M)20000F	高導型 -High Helix		Ø2 ~ Ø16	83
	四刃 4 Flutes	CEHS(M)40000F	高導型 -High Helix		Ø2 ~ Ø16	83
平刀 Square	二刃 2 Flutes	CESCM20000-00A	螺旋角=25° -Helix Angle=25°		Ø0.5 ~ Ø 2.5	84
		CESC20000-00A			Ø3.0 ~ Ø12.0	84
		CESCM20000-00A	螺旋角=45° -Helix Angle=45°		Ø0.5 ~ Ø 2.5	84
		CESC20000-00A			Ø3.0 ~ Ø12.0	84
長刃平刀 Long Flute Square		CELFC20000-00A	螺旋角=25° -Helix Angle=25°		Ø3.0 ~ Ø12.0	85
		CELFC20000-00A	螺旋角=45° -Helix Angle=45°		Ø3.0 ~ Ø12.0	85
球刀 Ball	二刃 2 Flutes	CEBCM20000A			0.5R ~ 0.75R	86
		CEBC20000A			1R ~ 6R	86
長頸球刀 Long Neck Ball	二刃 2 Flutes	CEBNCM20000A			0.5R ~ 1.0R	87
		CEBNC20000A			1.5R ~ 6.0R	87
應用於石墨加工 For Graphite Machining.						
平刀 Square	二刃 2 Flutes	CESG(M)20000A			Ø1 ~ Ø12	88
	四刃 4 Flutes	CESG(M)40000A			Ø2 ~ Ø12	89
球刀 Ball	二刃 2 Flutes	CEBG(M)20000A			0.5R ~ 6.0R	90

THREAD- S220 MICRO GRAIN CARBIDE END MILLS- Square Type- 4F

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	○



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[illegible]

→ 技術資料
Technical Data

THREAD- S220 MICRO GRAIN CARBIDE END MILLS- Ball Nose- 4F

Technical drawing of a drill bit. The drawing shows the bit from a side perspective. Dimensions are indicated as follows: L is the total length of the bit; L_1 is the length of the cutting edge; d_1 is the diameter of the shank; M is the diameter of the thread; and R is the radius of the cutting edge.

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



Cutting Table

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SSNO

S220 Carbide End Mills

S220 鎢鋼銑刀系列

→ 技術資料
Technical Data

THREAD- S220 MICRO GRAIN CARBIDE END MILLS- Corner Radius- 4F

Technical drawing of a double-flute drill bit. The drawing shows the bit from a side perspective. Key dimensions are labeled: R is the radius of the cutting edge; d is the outer diameter of the bit; L_1 is the length of the cutting edge; L is the total length of the bit; d_1 is the diameter of the shank; and M is the thread pitch of the shank. The bit has two flutes and a brand logo on the side.

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



→ 搭配刀桿 P.029, 030
 Holder

→ 切削條件表 P.606
 Cutting Condition

→ 技術資料 P.622
 Technical Data

鎢鋼抗震刀桿

CARBIDE ANTI-VIBRATION HOLDER

· LCL000-000L



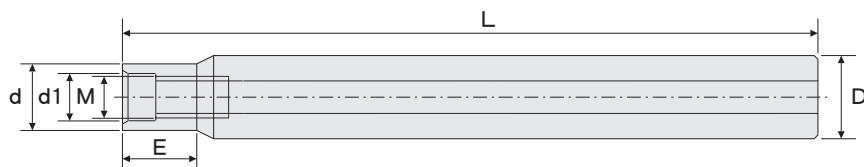
螺紋M Thread	柄徑 D	全長 L	d1	訂購編號 Order No.
M4 × 0.7	8	60	4.5	LCL008-060L
M4 × 0.7	8	100	4.5	LCL008-100L
M4 × 0.7	8	120	4.5	LCL008-120L
M5 × 0.8	10	75	5.5	LCL010-075L
M5 × 0.8	10	100	5.5	LCL010-100L
M5 × 0.8	10	150	5.5	LCL010-150L
M6 × 1.0	12	75	6.5	LCL012-075L
M6 × 1.0	12	100	6.5	LCL012-100L
M6 × 1.0	12	150	6.5	LCL012-150L
M6 × 1.0	12	200	6.5	LCL012-200L
M8 × 1.25	16	100	8.5	LCL016-100L
M8 × 1.25	16	150	8.5	LCL016-150L
M8 × 1.25	16	200	8.5	LCL016-200L
M8 × 1.25	16	250	8.5	LCL016-250L
M10 × 1.5	20	100	10.5	LCL020-100L
M10 × 1.5	20	150	10.5	LCL020-150L
M10 × 1.5	20	200	10.5	LCL020-200L
M10 × 1.5	20	250	10.5	LCL020-250L
M10 × 1.5	20	300	10.5	LCL020-300L
M12 × 1.75	25	100	12.5	LCL025-100L
M12 × 1.75	25	150	12.5	LCL025-150L
M12 × 1.75	25	200	12.5	LCL025-200L
M12 × 1.75	25	250	12.5	LCL025-250L
M12 × 1.75	25	300	12.5	LCL025-300L
M16 × 2.0	32	100	17.0	LCL032-100L
M16 × 2.0	32	150	17.0	LCL032-150L
M16 × 2.0	32	200	17.0	LCL032-200L
M16 × 2.0	32	250	17.0	LCL032-250L
M16 × 2.0	32	300	17.0	LCL032-300L

S220

S220 Carbide End Mills

S220鎢鋼銑刀系列

CARBIDE ANTI- VIBRATION HOLDER- NECK

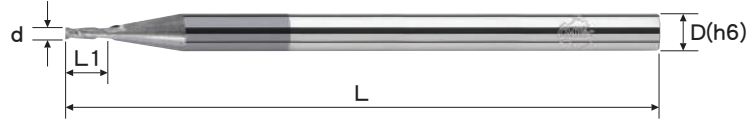
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S220 鎢鋼平銑刀- 微柄/小柄型- 2刃

S220 MICRO GRAIN CARBIDE END MILLS- Square Type- Micro Diameter- 2F

· CESS20000A

· CESM20000A



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	CESS20020	CESS20020A
0.25	0.5	50	3	2	CESS20025	CESS20025A
0.3	0.6	50	3	2	CESS20030	CESS20030A
0.35	0.7	50	3	2	CESS20035	CESS20035A
0.4	0.8	50	3	2	CESS20040	CESS20040A
0.5	1.0	50	3	2	CESS20050	CESS20050A
0.6	1.5	50	3	2	CESS20060	CESS20060A
0.7	2.0	50	3	2	CESS20070	CESS20070A
0.8	2.0	50	3	2	CESS20080	CESS20080A
0.9	2.0	50	3	2	CESS20090	CESS20090A
1.0	3.0	50	3	2	CESS20100	CESS20100A
1.5	4.0	50	3	2	CESS20150	CESS20150A
2.0	5.0	50	3	2	CESS20200	CESS20200A
2.5	6.0	50	3	2	CESS20250	CESS20250A
3.0	8.0	50	3	2	CESS20300	CESS20300A
0.2	0.4	50	4	2	CESM20020	CESM20020A
0.25	0.5	50	4	2	CESM20025	CESM20025A
0.3	0.6	50	4	2	CESM20030	CESM20030A
0.35	0.7	50	4	2	CESM20035	CESM20035A
0.4	0.8	50	4	2	CESM20040	CESM20040A
0.5	1.0	50	4	2	CESM20050	CESM20050A
0.6	1.5	50	4	2	CESM20060	CESM20060A
0.7	2.0	50	4	2	CESM20070	CESM20070A
0.8	2.0	50	4	2	CESM20080	CESM20080A
0.9	2.0	50	4	2	CESM20090	CESM20090A
1.0	3.0	50	4	2	CESM20100	CESM20100A
1.5	4.0	50	4	2	CESM20150	CESM20150A
2.0	5.0	50	4	2	CESM20200	CESM20200A
2.5	6.0	50	4	2	CESM20250	CESM20250A
3.0	8.0	50	4	2	CESM20300	CESM20300A
3.5	9.0	50	4	2	CESM20350	CESM20350A
4.0	10.0	50	4	2	CESM20400	CESM20400A



※ 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.534
Cutting Condition

→ 技術資料 P.622
Technical Data

S220

S220 Carbide End Mills

S220 鎢鋼銑刀系列

S220 鎢鋼平銑刀- 標準型- 2刃

S220 MICRO GRAIN CARBIDE END MILLS- Square Type- 2F

· CES20000A



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	6	2	CES20100	CES20100A
1.5	4	50	6	2	CES20150	CES20150A
2.0	5	50	6	2	CES20200	CES20200A
2.5	6	50	6	2	CES20250	CES20250A
3.0	8	50	6	2	CES20300	CES20300A
3.5	9	50	6	2	CES20350	CES20350A
4.0	10	50	6	2	CES20400	CES20400A
4.0	12	50	6	2	CES20400120C	CES20400120CA
4.5	11	50	6	2	CES20450	CES20450A
5.0	13	50	6	2	CES20500	CES20500A
5.5	14	50	6	2	CES20550	CES20550A
6.0	15	50	6	2	CES20600	CES20600A
6.0	18	50	6	2	CES20600180C	CES20600180CA
6.5	16	60	8	2	CES20650	CES20650A
7.0	18	60	8	2	CES20700	CES20700A
7.5	18	60	8	2	CES20750	CES20750A
8.0	20	60	8	2	CES20800	CES20800A
8.0	24	60	8	2	CES20800240C	CES20800240CA
8.5	20	75	10	2	CES20850	CES20850A
9.0	22	75	10	2	CES20900	CES20900A
9.5	22	75	10	2	CES20950	CES20950A
10.0	25	75	10	2	CES21000	CES21000A
10.0	30	75	10	2	CES21000300C	CES21000300CA
10.5	25	75	12	2	CES21050	CES21050A
11.0	25	75	12	2	CES21100	CES21100A
11.5	25	75	12	2	CES21150	CES21150A
12.0	30	75	12	2	CES21200	CES21200A
12.0	36	75	12	2	CES21200360C	CES21200360CA
13.0	30	75	14	2	CES2130014	CES2130014A
14.0	30	75	14	2	CES2140014	CES2140014A
15.0	35	100	16	2	CES21500	CES21500A
16.0	35	100	16	2	CES21600	CES21600A
16.0	45	100	16	2	CES21600450C	CES21600450CA
18.0	40	100	18	2	CES2180018	CES2180018A
18.0	40	100	20	2	CES21800	CES21800A
20.0	45	100	20	2	CES22000	CES22000A
25.0	45	100	25	2	CES22500	CES22500A



※ 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.534

→ 技術資料
Technical Data P.622

S220 鎢鋼平銑刀- 小柄型/標準型- 3刃

S220 MICRO GRAIN CARBIDE END MILLS- Square Type- 3F

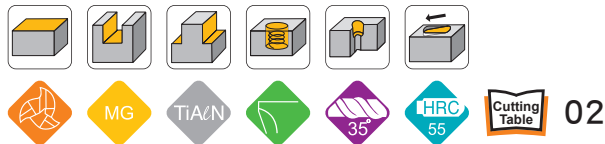
· CESM30000A

· CES30000A



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.
2.0	5	50	4	3	CESM30200	CESM30200A
2.5	6	50	4	3	CESM30250	CESM30250A
3.0	8	50	4	3	CESM30300	CESM30300A
3.5	9	50	4	3	CESM30350	CESM30350A
4.0	10	50	4	3	CESM30400	CESM30400A
2.0	5	50	6	3	CES30200	CES30200A
2.5	6	50	6	3	CES30250	CES30250A
3.0	8	50	6	3	CES30300	CES30300A
3.5	9	50	6	3	CES30350	CES30350A
4.0	10	50	6	3	CES30400	CES30400A
4.5	11	50	6	3	CES30450	CES30450A
5.0	13	50	6	3	CES30500	CES30500A
5.5	14	50	6	3	CES30550	CES30550A
6.0	15	50	6	3	CES30600	CES30600A
6.5	16	60	8	3	CES30650	CES30650A
7.0	18	60	8	3	CES30700	CES30700A
7.5	18	60	8	3	CES30750	CES30750A
8.0	20	60	8	3	CES30800	CES30800A
8.5	20	75	10	3	CES30850	CES30850A
9.0	22	75	10	3	CES30900	CES30900A
9.5	22	75	10	3	CES30950	CES30950A
10.0	25	75	10	3	CES31000	CES31000A
10.5	25	75	12	3	CES31050	CES31050A
11.0	25	75	12	3	CES31100	CES31100A
11.5	25	75	12	3	CES31150	CES31150A
12.0	30	75	12	3	CES31200	CES31200A
13.0	30	75	14	3	CES3130014	CES3130014A
14.0	30	75	14	3	CES3140014	CES3140014A
15.0	35	100	16	3	CES31500	CES31500A
16.0	35	100	16	3	CES31600	CES31600A

※ 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.534 → 技術資料 P.622
Cutting Condition Technical Data

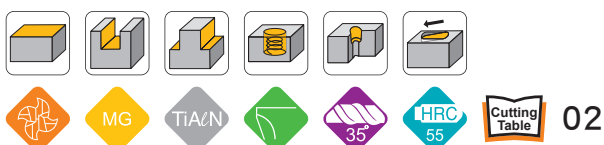
S220

S220 Carbide End Mills

S220 鎢鋼銑刀系列

S220 MICRO GRAIN CARBIDE END MILLS- Square Type- 4F

- **CESM40000A**



※ 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.

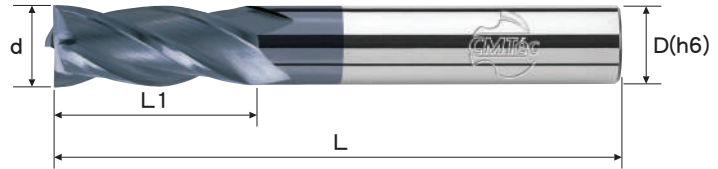
➡ 切削條件表 P.534
Cutting Condition

➡ 技術資料 P.622
Technical Data

S220 鎢鋼平銑刀- 標準型- 4刃

S220 MICRO GRAIN CARBIDE END MILLS- Square Type- 4F

· CES40000A



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	—



02



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	CES40300	CES40300A
3.0	9	50	6	4	CES40300090C	CES40300090CA
3.5	9	50	6	4	CES40350	CES40350A
4.0	10	50	6	4	CES40400	CES40400A
4.0	12	50	6	4	CES40400120C	CES40400120CA
4.5	11	50	6	4	CES40450	CES40450A
5.0	13	50	6	4	CES40500	CES40500A
5.5	14	50	6	4	CES40550	CES40550A
6.0	15	50	6	4	CES40600	CES40600A
6.0	18	50	6	4	CES40600180C	CES40600180CA
6.5	16	60	8	4	CES40650	CES40650A
7.0	18	60	8	4	CES40700	CES40700A
7.5	18	60	8	4	CES40750	CES40750A
8.0	20	60	8	4	CES40800	CES40800A
8.0	24	60	8	4	CES40800240C	CES40800240CA
8.0	20	75	8	4	CES40800075L	CES40800075LA
8.5	20	75	10	4	CES40850	CES40850A
9.0	22	75	10	4	CES40900	CES40900A
9.5	22	75	10	4	CES40950	CES40950A
10.0	25	75	10	4	CES41000	CES41000A
10.0	30	75	10	4	CES41000300C	CES41000300CA
10.5	25	75	12	4	CES41050	CES41050A
11.0	25	75	12	4	CES41100	CES41100A
11.5	25	75	12	4	CES41150	CES41150A
12.0	30	75	12	4	CES41200	CES41200A
12.0	36	75	12	4	CES41200360C	CES41200360CA
13.0	30	75	14	4	CES4130014	CES4130014A
14.0	30	75	14	4	CES4140014	CES4140014A
15.0	35	100	16	4	CES41500	CES41500A
16.0	35	100	16	4	CES41600	CES41600A
16.0	45	100	16	4	CES41600450C	CES41600450CA
18.0	40	100	18	4	CES4180018	CES4180018A
18.0	40	100	20	4	CES41800	CES41800A
20.0	45	100	20	4	CES42000	CES42000A
25.0	45	100	25	4	CES42500	CES42500A



※ 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.534

→ 技術資料
Technical Data P.622

S220

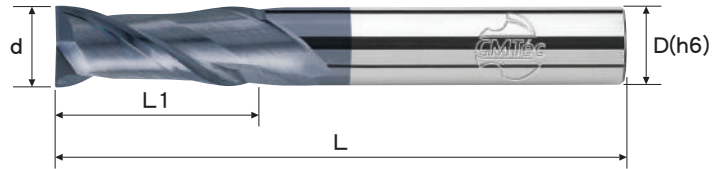
S220 Carbide End Mills

S220 鎢鋼銑刀系列

S220 鎢鋼平銑刀- 小柄點數型- 2刃

S220 MICRO GRAIN CARBIDE END MILLS- Square Type- Decimal Diameter- 2F

· CESM20000A



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

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



01

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.
1.1	3	50	4	2	CESM20110	CESM20110A
1.2	3	50	4	2	CESM20120	CESM20120A
1.3	3	50	4	2	CESM20130	CESM20130A
1.4	3	50	4	2	CESM20140	CESM20140A
1.6	4	50	4	2	CESM20160	CESM20160A
1.7	4	50	4	2	CESM20170	CESM20170A
1.8	4	50	4	2	CESM20180	CESM20180A
1.9	4	50	4	2	CESM20190	CESM20190A
2.1	5	50	4	2	CESM20210	CESM20210A
2.2	5	50	4	2	CESM20220	CESM20220A
2.3	5	50	4	2	CESM20230	CESM20230A
2.4	5	50	4	2	CESM20240	CESM20240A
2.6	6	50	4	2	CESM20260	CESM20260A
2.7	6	50	4	2	CESM20270	CESM20270A
2.8	6	50	4	2	CESM20280	CESM20280A
2.9	6	50	4	2	CESM20290	CESM20290A
3.1	8	50	4	2	CESM20310	CESM20310A
3.2	8	50	4	2	CESM20320	CESM20320A
3.3	8	50	4	2	CESM20330	CESM20330A
3.4	8	50	4	2	CESM20340	CESM20340A
3.6	9	50	4	2	CESM20360	CESM20360A
3.7	9	50	4	2	CESM20370	CESM20370A
3.8	9	50	4	2	CESM20380	CESM20380A
3.9	9	50	4	2	CESM20390	CESM20390A



※ 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.534

→ 技術資料
Technical Data P.622

S220

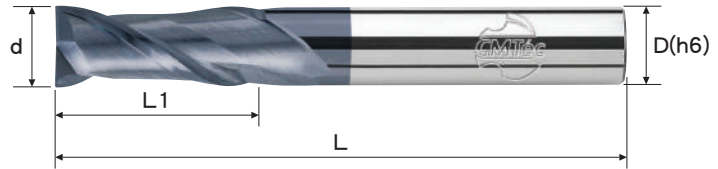
S220 Carbide End Mills

S220 鎢鋼銑刀系列

S220 鎢鋼平銑刀- 點數型- 2刃

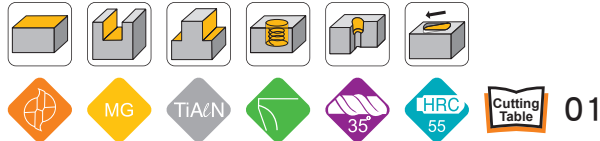
S220 MICRO GRAIN CARBIDE END MILLS- Square Type- Decimal Diameter- 2F

· CES20000A



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

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.
1.1	3	50	6	2	CES20110	CES20110A
1.2	3	50	6	2	CES20120	CES20120A
1.3	3	50	6	2	CES20130	CES20130A
1.4	3	50	6	2	CES20140	CES20140A
1.6	4	50	6	2	CES20160	CES20160A
1.7	4	50	6	2	CES20170	CES20170A
1.8	4	50	6	2	CES20180	CES20180A
1.9	4	50	6	2	CES20190	CES20190A
2.1	5	50	6	2	CES20210	CES20210A
2.2	5	50	6	2	CES20220	CES20220A
2.3	5	50	6	2	CES20230	CES20230A
2.4	5	50	6	2	CES20240	CES20240A
2.6	6	50	6	2	CES20260	CES20260A
2.7	6	50	6	2	CES20270	CES20270A
2.8	6	50	6	2	CES20280	CES20280A
2.9	6	50	6	2	CES20290	CES20290A
3.1	8	50	6	2	CES20310	CES20310A
3.2	8	50	6	2	CES20320	CES20320A
3.3	8	50	6	2	CES20330	CES20330A
3.4	8	50	6	2	CES20340	CES20340A
3.6	9	50	6	2	CES20360	CES20360A
3.7	9	50	6	2	CES20370	CES20370A
3.8	9	50	6	2	CES20380	CES20380A
3.9	9	50	6	2	CES20390	CES20390A

※ 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.534 → 技術資料 P.622
Cutting Condition Technical Data

S220

S220 Carbide End Mills

S220 鎢鋼銑刀系列

S220 鎢鋼平銑刀- 點數型- 2刃

S220 MICRO GRAIN CARBIDE END MILLS- Square Type- Decimal Diameter- 2F

· CES20000A



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

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.
4.1	10	50	6	2	CES20410	CES20410A
4.2	10	50	6	2	CES20420	CES20420A
4.3	10	50	6	2	CES20430	CES20430A
4.4	11	50	6	2	CES20440	CES20440A
4.6	11	50	6	2	CES20460	CES20460A
4.7	11	50	6	2	CES20470	CES20470A
4.8	11	50	6	2	CES20480	CES20480A
4.9	11	50	6	2	CES20490	CES20490A
5.1	13	50	6	2	CES20510	CES20510A
5.2	13	50	6	2	CES20520	CES20520A
5.3	13	50	6	2	CES20530	CES20530A
5.4	13	50	6	2	CES20540	CES20540A
5.6	14	50	6	2	CES20560	CES20560A
5.7	14	50	6	2	CES20570	CES20570A
5.8	14	50	6	2	CES20580	CES20580A
5.9	14	50	6	2	CES20590	CES20590A
6.1	15	60	8	2	CES20610	CES20610A
6.2	15	60	8	2	CES20620	CES20620A
6.3	15	60	8	2	CES20630	CES20630A
6.4	15	60	8	2	CES20640	CES20640A
6.6	16	60	8	2	CES20660	CES20660A
6.7	16	60	8	2	CES20670	CES20670A
6.8	16	60	8	2	CES20680	CES20680A
6.9	16	60	8	2	CES20690	CES20690A
7.1	18	60	8	2	CES20710	CES20710A
7.2	18	60	8	2	CES20720	CES20720A
7.3	18	60	8	2	CES20730	CES20730A
7.4	18	60	8	2	CES20740	CES20740A



※ 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.534

→ 技術資料
Technical Data P.622

S220

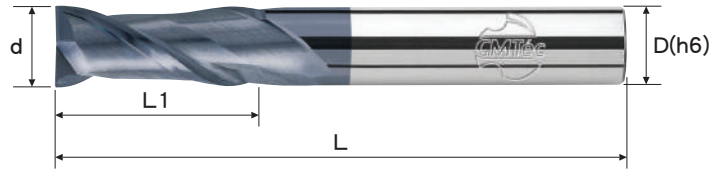
S220 Carbide End Mills

S220 鎢鋼銑刀系列

S220 鎢鋼平銑刀- 點數型- 2刃

S220 MICRO GRAIN CARBIDE END MILLS- Square Type- Decimal Diameter- 2F

· CES20000A



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

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



01

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.
7.6	18	60	8	2	CES20760	CES20760A
7.7	18	60	8	2	CES20770	CES20770A
7.8	18	60	8	2	CES20780	CES20780A
7.9	18	60	8	2	CES20790	CES20790A
8.1	20	75	10	2	CES20810	CES20810A
8.2	20	75	10	2	CES20820	CES20820A
8.3	20	75	10	2	CES20830	CES20830A
8.4	20	75	10	2	CES20840	CES20840A
8.6	20	75	10	2	CES20860	CES20860A
8.7	20	75	10	2	CES20870	CES20870A
8.8	20	75	10	2	CES20880	CES20880A
8.9	20	75	10	2	CES20890	CES20890A
9.1	22	75	10	2	CES20910	CES20910A
9.2	22	75	10	2	CES20920	CES20920A
9.3	22	75	10	2	CES20930	CES20930A
9.4	22	75	10	2	CES20940	CES20940A
9.6	22	75	10	2	CES20960	CES20960A
9.7	22	75	10	2	CES20970	CES20970A
9.8	22	75	10	2	CES20980	CES20980A
9.9	22	75	10	2	CES20990	CES20990A
10.1	25	75	12	2	CES21010	CES21010A
10.2	25	75	12	2	CES21020	CES21020A
10.3	25	75	12	2	CES21030	CES21030A
10.4	25	75	12	2	CES21040	CES21040A
10.6	25	75	12	2	CES21060	CES21060A
10.7	25	75	12	2	CES21070	CES21070A
10.8	25	75	12	2	CES21080	CES21080A
10.9	25	75	12	2	CES21090	CES21090A

→ 切削條件表 P.534
Cutting Condition

→ 技術資料 P.622
Technical Data

S220

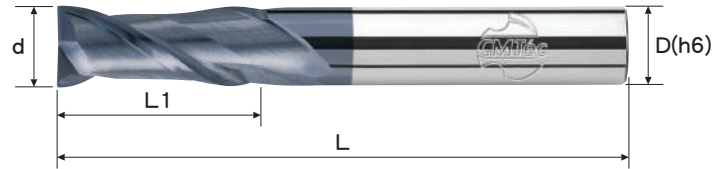
S220 Carbide End Mills

S220 鎢鋼銑刀系列

S220 鎢鋼平銑刀- 英吋型- 2刃

S220 MICRO GRAIN CARBIDE END MILLS- Square Type- Inch Diameter- 2F

· CEI20000A



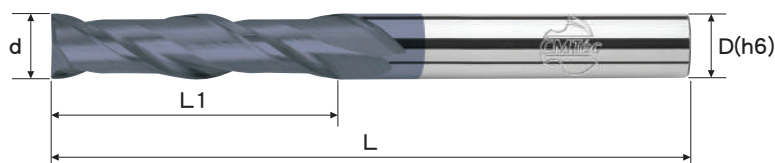
刃徑 d	公差 Tolerance
$\phi < 3$	0 ~ -0.02
$3 \leq \phi \leq 10$	-0.01 ~ -0.03
$10 < \phi$	-0.01 ~ -0.04

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

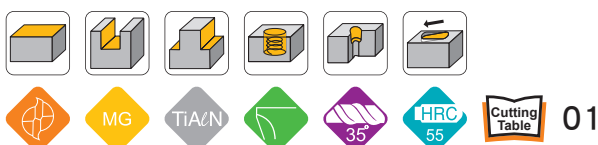


S220 MICRO GRAIN CARBIDE END MILLS- Square Type- (Extra) Long Flute- 2F

- **CEFF20000A**



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



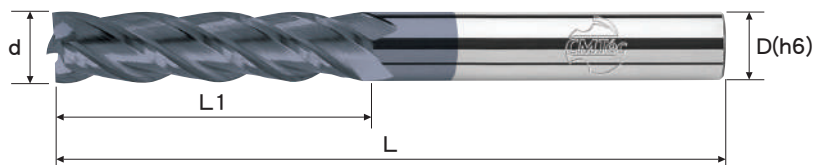
SSNO

S220 Carbide End Mills

S220 鎢鋼銑刀系列

S220 MICRO GRAIN CARBIDE END MILLS- Square Type- (Extra) Long Flute- 4F

- **CEFF40000A**



刃徑 d	公差 Tolerance
$\phi < 3$	0 ~ -0.03
$3 \leq \phi \leq 10$	-0.01 ~ -0.04
$10 < \phi$	-0.01 ~ -0.05

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



02

[illegible]

→ 切削條件表 P.534
Cutting Condition

→ 技術資料
Technical Data

S220 鎢鋼平銑刀- 長柄型- 2刃

S220 MICRO GRAIN CARBIDE END MILLS- Square Type- Long Shank- 2F

· CELS20000A

刃徑 d	公差 Tolerance
$\phi < 3$	0 ~ -0.03
$3 \leq \phi \leq 10$	-0.01 ~ -0.04
$10 < \phi$	-0.01 ~ -0.05

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	75	6	2	CELS20300	CELS20300A
4.0	10	75	6	2	CELS20400	CELS20400A
5.0	13	75	6	2	CELS20500	CELS20500A
6.0	15	75	6	2	CELS20600	CELS20600A
8.0	20	100	8	2	CELS20800	CELS20800A
10.0	25	100	10	2	CELS21000	CELS21000A
12.0	30	100	12	2	CELS21200	CELS21200A

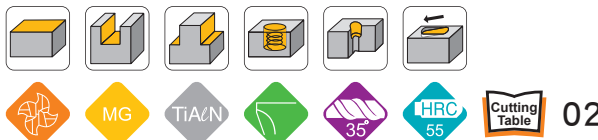
S220 鎢鋼平銑刀- 長柄型- 4刃

S220 MICRO GRAIN CARBIDE END MILLS- Square Type- Long Shank- 4F

· CELS40000A

刃徑 d	公差 Tolerance
$\phi < 3$	0 ~ -0.03
$3 \leq \phi \leq 10$	-0.01 ~ -0.04
$10 < \phi$	-0.01 ~ -0.05

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

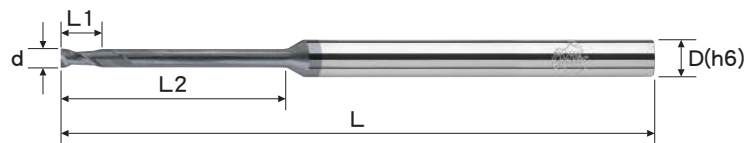


刃徑 d	刃長 L1	全長 L	柄徑 D	刃數 F	白刀訂購編號 Uncoated Order No.	鍍膜訂購編號 Coated Order No.
3.0	8	75	6	4	CELS40300	CELS40300A
4.0	10	75	6	4	CELS40400	CELS40400A
5.0	13	75	6	4	CELS40500	CELS40500A
6.0	15	75	6	4	CELS40600	CELS40600A
6.0	15	100	6	4	CELS40600100L	CELS40600100LA
8.0	20	100	8	4	CELS40800	CELS40800A
10.0	25	100	10	4	CELS41000	CELS41000A
12.0	30	100	12	4	CELS41200	CELS41200A
16.0	40	150	16	4	CELS41600	CELS41600A
20.0	40	150	20	4	CELS42000	CELS42000A

S220 鎢鋼平銑刀- 長頸型- 2刃

S220 MICRO GRAIN CARBIDE END MILLS- Square Type- Long Neck- 2F

· CEN20000000A



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	○



S220 MICRO GRAIN CARBIDE END MILLS- Square Type- Long Neck- 4F

Technical drawing of a drill bit. The drawing shows a side view of the drill bit with the following dimensions labeled:

- $L1$: Length of the cutting edge.
- $L2$: Length of the cutting edge plus the length of the flute.
- L : Total length of the drill bit.
- d : Diameter of the cutting edge.
- $D(h6)$: Diameter of the shank.

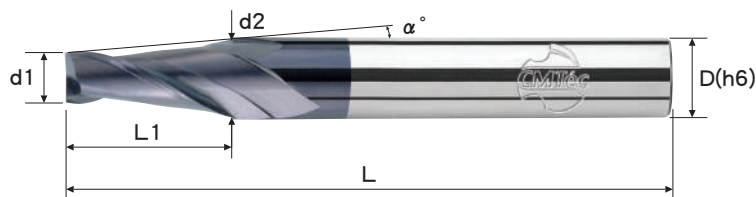
02

→ 技術資料 P.622
Technical Data

S220 鎢鋼斜度銑刀- 標準型- 2刃

S220 MICRO GRAIN CARBIDE END MILLS- Taper- 2F

· CETF20000000A



先端徑 d1	公差 Tolerance
Φ	0 ~ -0.05

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



01

先端徑 d1	刃斜角 α°	刃長 L1	粗端徑 d2	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	0.5°	4	1.07	50	4	2	CETF2010005	CETF2010005A
1.0	1°	4	1.14	50	4	2	CETF2010010	CETF2010010A
1.0	1.5°	4	1.21	50	4	2	CETF2010015	CETF2010015A
1.0	2°	4	1.28	50	4	2	CETF2010020	CETF2010020A
1.0	2.5°	4	1.35	50	4	2	CETF2010025	CETF2010025A
1.0	3°	4	1.42	50	4	2	CETF2010030	CETF2010030A
1.0	5°	4	1.70	50	4	2	CETF2010050	CETF2010050A
1.0	7°	4	1.98	50	4	2	CETF2010070	CETF2010070A
1.0	10°	4	2.41	50	4	2	CETF20100100	CETF20100100A
1.0	15°	4	3.14	50	4	2	CETF20100150	CETF20100150A
1.5	0.5°	5	1.59	50	4	2	CETF2015005	CETF2015005A
1.5	1°	5	1.68	50	4	2	CETF2015010	CETF2015010A
1.5	1.5°	5	1.76	50	4	2	CETF2015015	CETF2015015A
1.5	2°	5	1.85	50	4	2	CETF2015020	CETF2015020A
1.5	2.5°	5	1.93	50	4	2	CETF2015025	CETF2015025A
1.5	3°	5	2.02	50	4	2	CETF2015030	CETF2015030A
1.5	5°	5	2.37	50	4	2	CETF2015050	CETF2015050A
2.0	0.5°	6	2.10	50	4	2	CETF2020005	CETF2020005A
2.0	1°	6	2.21	50	4	2	CETF2020010	CETF2020010A
2.0	1.5°	6	2.31	50	4	2	CETF2020015	CETF2020015A
2.0	2°	6	2.41	50	4	2	CETF2020020	CETF2020020A
2.0	2.5°	6	2.52	50	4	2	CETF2020025	CETF2020025A
2.0	3°	6	2.62	50	4	2	CETF2020030	CETF2020030A
2.0	5°	6	3.05	50	4	2	CETF2020050	CETF2020050A
2.0	7°	6	3.47	50	4	2	CETF2020070	CETF2020070A
2.0	10°	6	4.11	50	6	2	CETF20200100	CETF20200100A
2.0	15°	6	5.22	50	6	2	CETF20200150	CETF20200150A
2.5	0.5°	8	2.64	50	4	2	CETF2025005	CETF2025005A
2.5	1°	8	2.78	50	4	2	CETF2025010	CETF2025010A
2.5	1.5°	8	2.91	50	4	2	CETF2025015	CETF2025015A
2.5	2°	8	3.05	50	4	2	CETF2025020	CETF2025020A
2.5	2.5°	8	3.20	50	4	2	CETF2025025	CETF2025025A
2.5	3°	8	3.33	50	4	2	CETF2025030	CETF2025030A
2.5	5°	8	3.90	50	4	2	CETF2025050	CETF2025050A
2.5	10°	8	5.32	50	6	2	CETF20250100	CETF20250100A

→ 切削條件表
Cutting Condition

P.534

→ 技術資料
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P.622

S220

S220 Carbide End Mills

S220 鎢鋼銑刀系列

S220 MICRO GRAIN CARBIDE END MILLS- Taper- 2F

Technical drawing of a double-flute drill bit. The drawing shows the bit's geometry with the following dimensions and labels:

- $d1$: Diameter of the cutting edge.
- $d2$: Diameter of the flute.
- α° : Flute angle.
- $L1$: Length of the cutting edge.
- L : Total length of the bit.
- $D(h6)$: Diameter of the shank.
- Logo: GMIT & C

01

→ 技術資料 P.622
Technical Data

S220 MICRO GRAIN CARBIDE END MILLS- Taper- 2F

Technical drawing of a double-flute drill bit. The drawing shows the bit's geometry with the following dimensions and labels:

- $d1$: Diameter of the cutting edge.
- $d2$: Diameter at the start of the flutes.
- α° : Flute angle.
- $L1$: Length of the cutting edge.
- L : Total length of the bit.
- $D(h6)$: Diameter of the shank.

01

→ 技術資料
Technical Data

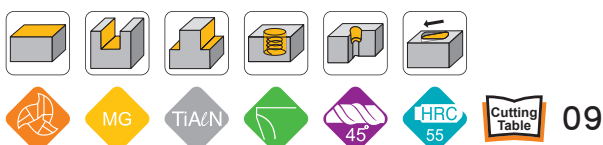
S220 MICRO GRAIN CARBIDE END MILLS- Square Type- High Helix- 3F

Technical drawing of a double-flute drill bit. The drawing shows the bit's geometry with the following dimensions labeled:

- d : Flute diameter
- L_1 : Length of the double-flute section
- L : Total length of the bit
- $D(h6)$: Shank diameter (H7/h6 fit)

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	○



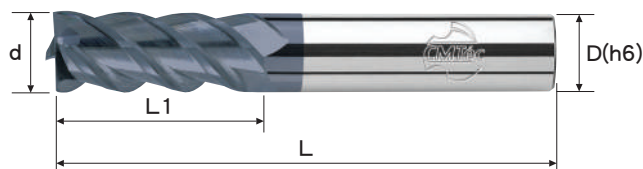
SSNO

S220 Carbide End Mills

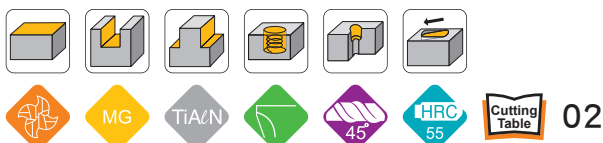
S220 鎢鋼銑刀系列

S220 MICRO GRAIN CARBIDE END MILLS- Square Type- High Helix- 4F

- **CEH40000A**



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



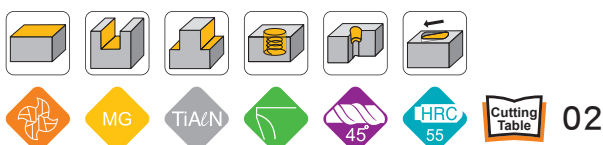
→ 切削條件表 P.534 → 技術資料 P.622
Cutting Condition Technical Data

S220 MICRO GRAIN CARBIDE END MILLS- Square Type- High Helix & Long Flute- 4F

Technical drawing of a double-flute drill bit. The drawing shows the bit's profile with the following dimensions labeled:

- d : Diameter of the drill bit.
- L_1 : Length of the cutting edge.
- L : Total length of the drill bit.
- $D(h6)$: Diameter of the drill bit shank.

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



➡ 切削條件表 P.534
Cutting Condition

➡ 技術資料 P.622
Technical Data

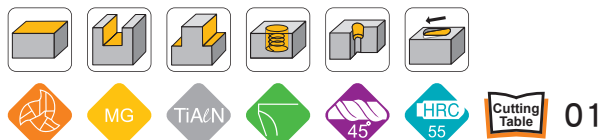
S220 鎢鋼平銑刀- 高導粗精型- 3刃

S220 MICRO GRAIN CARBIDE END MILLS- High Helix- Semi Finishing- 3F

· CER30000A

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.
6.0	15	50	6	3	CER30600	CER30600A
8.0	20	60	8	3	CER30800	CER30800A
10.0	25	75	10	3	CER31000	CER31000A
12.0	30	75	12	3	CER31200	CER31200A
16.0	40	100	16	3	CER31600	CER31600A
20.0	45	100	20	3	CER32000	CER32000A

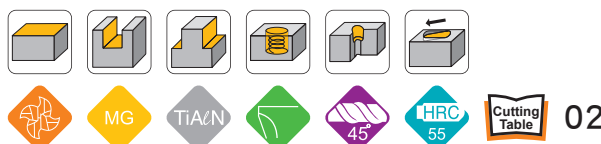
S220 鎢鋼平銑刀- 高導粗精型- 4刃

S220 MICRO GRAIN CARBIDE END MILLS- High Helix- Semi Finishing- 4F

· CER40000A

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.
6.0	15	50	6	4	CER40600	CER40600A
8.0	20	60	8	4	CER40800	CER40800A
10.0	25	75	10	4	CER41000	CER41000A
12.0	30	75	12	4	CER41200	CER41200A
16.0	40	100	16	4	CER41600	CER41600A
20.0	45	100	20	4	CER42000	CER42000A

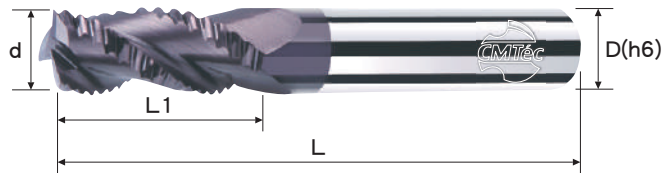
→ 切削條件表
Cutting Condition P.534

→ 技術資料
Technical Data P.622

S220 鎢鋼粗銑平銑刀- 標準型- 3刃

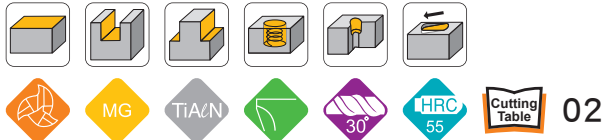
S220 MICRO GRAIN CARBIDE END MILLS- Roughing- 3F

· CERR30000A



刃徑 d	公差 Tolerance
Φ	0 ~ -0.05

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

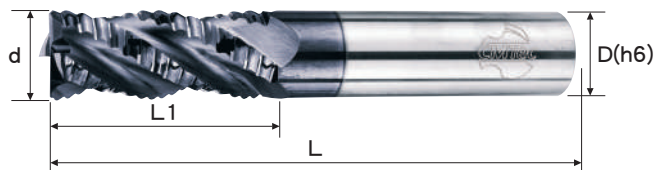


刃徑 d	刃長 L1	全長 L	柄徑 D	刃數 F	鍍膜訂購編號 Coated Order No.
6.0	15	50	6	3	CERR30600A
8.0	20	60	8	3	CERR30800A
10.0	25	75	10	3	CERR31000A
12.0	30	75	12	3	CERR31200A
16.0	40	100	16	3	CERR31600A
20.0	45	100	20	3	CERR32000A

S220 鎢鋼粗銑平銑刀- 標準型- 4刃

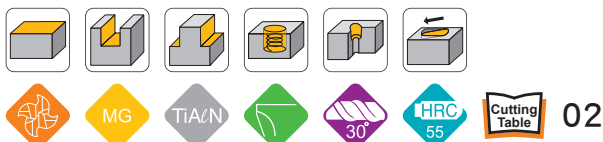
S220 MICRO GRAIN CARBIDE END MILLS- Roughing- 4F

· CERR40000A



刃徑 d	公差 Tolerance
Φ	0 ~ -0.05

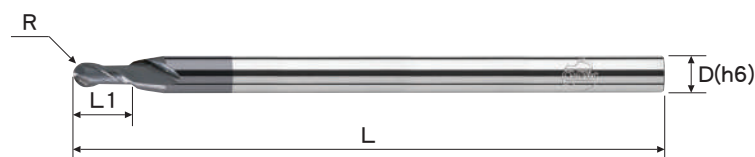
超精銑 Bright Finishing	—
精銑 Finishing	—
中銑 Semi Finishing	○
粗銑 Roughing	◎



刃徑 d	刃長 L1	全長 L	柄徑 D	刃數 F	鍍膜訂購編號 Coated Order No.
6.0	15	50	6	4	CERR40600A
8.0	20	60	8	4	CERR40800A
10.0	25	75	10	4	CERR41000A
12.0	30	75	12	4	CERR41200A
16.0	40	100	16	4	CERR41600A
20.0	45	100	20	4	CERR42000A

S220 MICRO GRAIN CARBIDE END MILLS- Ball Nose- Micro Diameter- 2F

- **CEBM2000A**



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



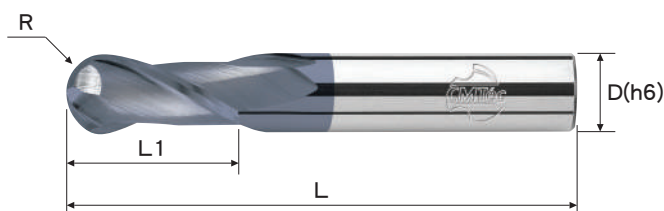
05

→ 切削條件表 P.537
Cutting Condition

→ 技術資料
Technical Data

S220 MICRO GRAIN CARBIDE END MILLS- Ball Nose- 2F

▪ **CEB20000A**



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



 05



2020

S220 Carbide End Mills

S220 鎢鋼銑刀系列

S220 MICRO GRAIN CARBIDE END MILLS- Ball Nose- 3F

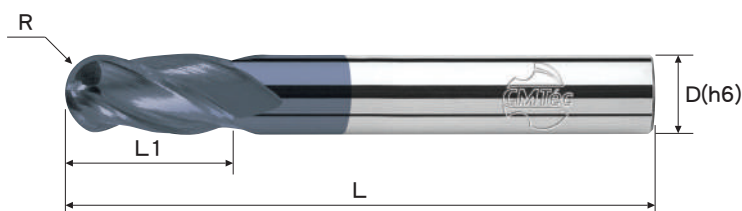
Technical drawing of a double-flute drill bit. The drawing shows the bit with its dimensions labeled: L_1 is the length of the cutting edge, L is the total length, $D(h6)$ is the diameter, and R is the radius of the tip. The bit has a double-flute design and a black coating on the cutting edge.

06

→ 技術資料
Technical Data

S220 MICRO GRAIN CARBIDE END MILLS- Ball Nose- 4F

▪ **CEB40000A**



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



05

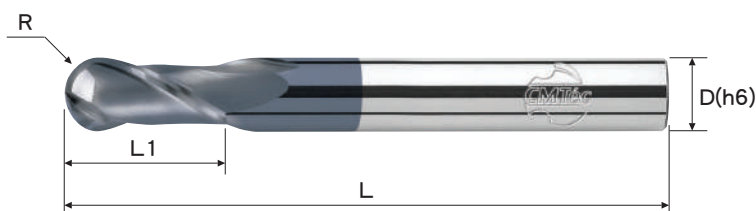
SSNO

S220 Carbide End Mills

S220 鎢鋼銑刀系列

S220 MICRO GRAIN CARBIDE END MILLS- Ball Nose- Long Shank- 2F

· **CEBL20000A**



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



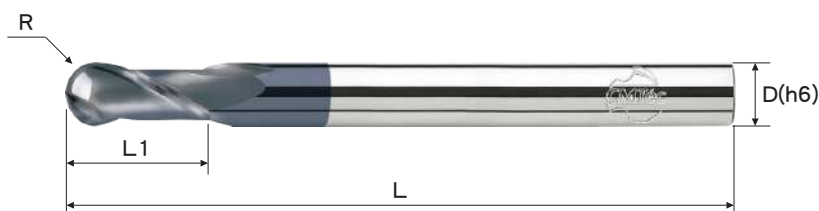
05

➡ 切削條件表 P.537
Cutting Condition

→ 技術資料 P.622
Technical Data

S220 MICRO GRAIN CARBIDE END MILLS- Ball Nose- Extra Long Shank- 2F

- **CEBL2000A**



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



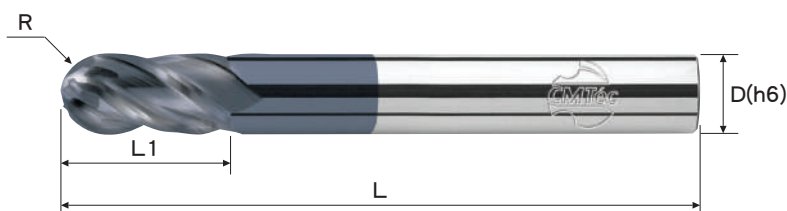
05

→ 切削條件表 P.537
Cutting Condition

→ 技術資料
Technical Data

S220 MICRO GRAIN CARBIDE END MILLS- Ball Nose- Long Shank- 4F

· **CEBL40000A**



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



05

→ 切削條件表 P.537
Cutting Condition

→ 技術資料
Technical Data

S220 MICRO GRAIN CARBIDE END MILLS- Ball Nose- Long Neck- 2F

Technical drawing of a twist drill bit. The drawing shows the bit from the side with the following dimensions labeled:

- R : Radius of the cutting edge.
- $L1$: Length of the cutting edge.
- $L2$: Length of the flute section.
- L : Total length of the drill bit.
- $D(h6)$: Diameter of the drill bit.

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



 05

SSNO

S220 Carbide End Mills

S220 鎢鋼銑刀系列

S220 鎢鋼球型銑刀- 斜頸型- 2刃

S220 MICRO GRAIN CARBIDE END MILLS- Ball Nose- Taper Neck- 2F

· CENL20000A



半徑 R	公差 Tolerance
R	±0.02

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



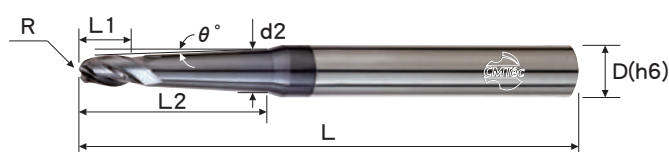
05

半徑 R	半夾角 θ°	刃長 L1	斜頸長 L2	粗端徑 d2	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	3°	4	42	5.98	100	8	2	CENL20100	CENL20100A
1.5R	3°	6	47	7.30	100	8	2	CENL20150	CENL20150A
2.0R	3°	8	38	7.14	100	8	2	CENL20200	CENL20200A
2.5R	3°	10	28	6.89	100	8	2	CENL20250	CENL20250A
3.0R	3°	12	38	8.73	100	10	2	CENL20300	CENL20300A
4.0R	3°	16	38	10.31	150	12	2	CENL20400	CENL20400A
5.0R	3°	20	57	13.88	150	16	2	CENL20500	CENL20500A
6.0R	3°	24	38	13.47	150	16	2	CENL20600	CENL20600A

S220 鎢鋼球型銑刀- 斜頸型- 4刃

S220 MICRO GRAIN CARBIDE END MILLS- Ball Nose- Taper Neck- 4F

· CENL40000A



半徑 R	公差 Tolerance
R	±0.02

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



05

半徑 R	半夾角 θ°	刃長 L1	斜頸長 L2	粗端徑 d2	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	3°	4	42	5.98	100	8	4	CENL40100	CENL40100A
1.5R	3°	6	47	7.30	100	8	4	CENL40150	CENL40150A
2.0R	3°	8	38	7.14	100	8	4	CENL40200	CENL40200A
2.5R	3°	10	28	6.89	100	8	4	CENL40250	CENL40250A
3.0R	3°	12	38	8.73	100	10	4	CENL40300	CENL40300A
4.0R	3°	16	38	10.31	150	12	4	CENL40400	CENL40400A
5.0R	3°	20	57	13.88	150	16	4	CENL40500	CENL40500A
6.0R	3°	24	38	13.47	150	16	4	CENL40600	CENL40600A

S220 MICRO GRAIN CARBIDE END MILLS- Ball Nose- Taper- 2F

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



 05

SSNO

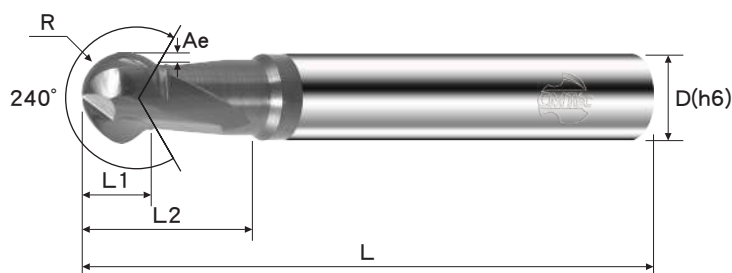
S220 Carbide End Mills

S220 鎢鋼銑刀系列

→ 技術資料
Technical Data

S220 MICRO GRAIN CARBIDE END MILLS- Semi Sphere Ball Nose(240°)- 2F

· CEO20000000A



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



05

→ 切削條件表 P.537
Cutting Condition

→ 技術資料
Technical Data

S220 MICRO GRAIN CARBIDE END MILLS- Semi Sphere Ball Nose(270°)- 2F

Technical drawing of a double-flute drill bit. The drawing shows the bit's geometry with the following dimensions and labels:

- R : Radius of the cutting edge.
- A_e : Angle of the cutting edge.
- 270° : Angle of the cutting edge.
- $L1$: Length of the cutting edge.
- $L2$: Length of the cutting edge.
- L : Total length of the drill bit.
- $D(h6)$: Diameter of the drill bit.

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



 05



SSNO

S220 Carbide End Mills

S220 鎢鋼銑刀系列

S220 MICRO GRAIN CARBIDE END MILLS- Semi Sphere Ball Nose(240°)- 4F

Technical drawing of a double-flute drill bit. The drawing shows the bit's geometry with the following dimensions and labels:

- R : Radius of the tip.
- 240° : Angle of the tip.
- A_e : Edge angle.
- L_1 : Length of the cutting edge.
- L_2 : Length of the flute.
- L : Total length of the bit.
- $D(h6)$: Diameter of the bit.

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



 05

➡ 切削條件表 P.537
Cutting Condition

➡ 技術資料 P.622
Technical Data

S220 鎢鋼圓鼻銑刀- 小柄/標準型- 2刃

S220 MICRO GRAIN CARBIDE END MILLS- Corner Radius- 2F

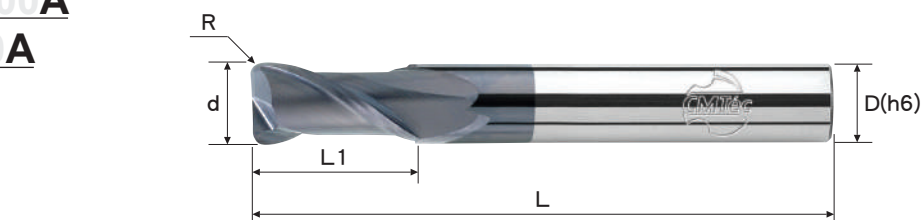
· CECRM2000000A

· CECR2000000A

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	—
精銑 Finishing	○
中銑 Semi Finishing	◎
粗銑 Roughing	◎



NEW
SIZE

08

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	CECRM2010002	CECRM2010002A
1.0	0.3R	2	50	4	2	CECRM2010003	CECRM2010003A
1.5	0.2R	3	50	4	2	CECRM2015002	CECRM2015002A
1.5	0.3R	3	50	4	2	CECRM2015003	CECRM2015003A
2.0	0.2R	4	50	4	2	CECRM2020002	CECRM2020002A
2.0	0.3R	4	50	4	2	CECRM2020003	CECRM2020003A
2.5	0.2R	5	50	4	2	CECRM2025002	CECRM2025002A
2.5	0.3R	5	50	4	2	CECRM2025003	CECRM2025003A
2.5	0.5R	5	50	4	2	CECRM2025005	CECRM2025005A
3.0	0.2R	6	50	4	2	CECRM2030002	CECRM2030002A
3.0	0.3R	6	50	4	2	CECRM2030003	CECRM2030003A
3.0	0.5R	6	50	4	2	CECRM2030005	CECRM2030005A
3.0	1.0R	6	50	4	2	CECRM2030010	CECRM2030010A
4.0	0.3R	8	50	4	2	CECRM2040003	CECRM2040003A
4.0	0.5R	8	50	4	2	CECRM2040005	CECRM2040005A
4.0	1.0R	8	50	4	2	CECRM2040010	CECRM2040010A
4.0	0.3R	8	50	6	2	CECR2040003	CECR2040003A
4.0	0.5R	8	50	6	2	CECR2040005	CECR2040005A
4.0	1.0R	8	50	6	2	CECR2040010	CECR2040010A
5.0	0.5R	10	50	6	2	CECR2050005	CECR2050005A
5.0	1.0R	10	50	6	2	CECR2050010	CECR2050010A
6.0	0.5R	12	50	6	2	CECR2060005	CECR2060005A
6.0	1.0R	12	50	6	2	CECR2060010	CECR2060010A
8.0	0.5R	16	60	8	2	CECR2080005	CECR2080005A
8.0	1.0R	16	60	8	2	CECR2080010	CECR2080010A
8.0	1.5R	16	60	8	2	CECR2080015	CECR2080015A
10.0	0.5R	20	75	10	2	CECR2100005	CECR2100005A
10.0	1.0R	20	75	10	2	CECR2100010	CECR2100010A
10.0	1.5R	20	75	10	2	CECR2100015	CECR2100015A
10.0	2.0R	20	75	10	2	CECR2100020	CECR2100020A
12.0	0.5R	24	75	12	2	CECR2120005	CECR2120005A
12.0	1.0R	24	75	12	2	CECR2120010	CECR2120010A
12.0	1.5R	24	75	12	2	CECR2120015	CECR2120015A
12.0	2.0R	24	75	12	2	CECR2120020	CECR2120020A

→ 切削條件表
Cutting Condition

P.538

→ 技術資料
Technical Data

P.622

S220

S220 Carbide End Mills

S220 鎢鋼銑刀系列

S220 鎢鋼圓鼻銑刀- 小柄/標準型- 4刃

S220 MICRO GRAIN CARBIDE END MILLS- Corner Radius- 4F

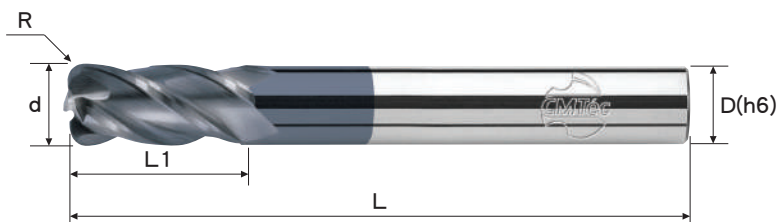
· CECRM4000000A

· CECR4000000A

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	○
精銑 Finishing	◎
中銑 Semi Finishing	◎
粗銑 Roughing	○



NEW
SIZE

08

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	CECRM4010002	CECRM4010002A
1.0	0.3R	2	50	4	4	CECRM4010003	CECRM4010003A
1.5	0.2R	3	50	4	4	CECRM4015002	CECRM4015002A
1.5	0.3R	3	50	4	4	CECRM4015003	CECRM4015003A
2.0	0.2R	4	50	4	4	CECRM4020002	CECRM4020002A
2.0	0.3R	4	50	4	4	CECRM4020003	CECRM4020003A
2.5	0.2R	5	50	4	4	CECRM4025002	CECRM4025002A
2.5	0.3R	5	50	4	4	CECRM4025003	CECRM4025003A
2.5	0.5R	5	50	4	4	CECRM4025005	CECRM4025005A
3.0	0.2R	6	50	4	4	CECRM4030002	CECRM4030002A
3.0	0.3R	6	50	4	4	CECRM4030003	CECRM4030003A
3.0	0.5R	6	50	4	4	CECRM4030005	CECRM4030005A
3.0	1.0R	6	50	4	4	CECRM4030010	CECRM4030010A
4.0	0.2R	8	50	4	4	CECRM4040002	CECRM4040002A
4.0	0.3R	8	50	4	4	CECRM4040003	CECRM4040003A
4.0	0.5R	8	50	4	4	CECRM4040005	CECRM4040005A
4.0	1.0R	8	50	4	4	CECRM4040010	CECRM4040010A
3.0	0.5R	6	50	6	4	CECR4030005	CECR4030005A
3.0	1.0R	6	50	6	4	CECR4030010	CECR4030010A
4.0	0.5R	8	50	6	4	CECR4040005	CECR4040005A
4.0	1.0R	8	50	6	4	CECR4040010	CECR4040010A
5.0	0.5R	10	50	6	4	CECR4050005	CECR4050005A
5.0	1.0R	10	50	6	4	CECR4050010	CECR4050010A
6.0	0.5R	12	50	6	4	CECR4060005	CECR4060005A
6.0	1.0R	12	50	6	4	CECR4060010	CECR4060010A
8.0	0.5R	16	60	8	4	CECR4080005	CECR4080005A
8.0	1.0R	16	60	8	4	CECR4080010	CECR4080010A
8.0	1.5R	16	60	8	4	CECR4080015	CECR4080015A
8.0	0.5R	16	75	8	4	CECR4080005075L	CECR4080005075LA
8.0	1.0R	16	75	8	4	CECR4080010075L	CECR4080010075LA
8.0	1.5R	16	75	8	4	CECR4080015075L	CECR4080015075LA
10.0	0.5R	20	75	10	4	CECR4100005	CECR4100005A
10.0	1.0R	20	75	10	4	CECR4100010	CECR4100010A
10.0	1.5R	20	75	10	4	CECR4100015	CECR4100015A
10.0	2.0R	20	75	10	4	CECR4100020	CECR4100020A
12.0	0.5R	24	75	12	4	CECR4120005	CECR4120005A
12.0	1.0R	24	75	12	4	CECR4120010	CECR4120010A
12.0	1.5R	24	75	12	4	CECR4120015	CECR4120015A
12.0	2.0R	24	75	12	4	CECR4120020	CECR4120020A
12.0	3.0R	24	75	12	4	CECR4120030	CECR4120030A

→ 切削條件表
Cutting Condition

P.538

→ 技術資料
Technical Data

P.622

S220

S220 Carbide End Mills

S220 鎢鋼銑刀系列

S220 MICRO GRAIN CARBIDE END MILLS- Corner Radius- Long Shank- 4F

Technical drawing of a double-flute drill bit. The drawing shows the bit's profile with the following dimensions and labels:

- R : Radius of the tip.
- d : Diameter of the cutting edge.
- L_1 : Length of the cutting edge.
- L : Total length of the bit.
- $D(h6)$: Diameter of the shank.

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



**NEW
SIZE**

Cutting Table 08

➡ 切削條件表 P.538
Cutting Condition

➡ 技術資料 P.622
Technical Data

S220 MICRO GRAIN CARBIDE END MILLS- Corner Radius- Taper Neck- 2F

Technical drawing of a tapered drill bit. The drawing shows a side view of the drill bit with the following dimensions and features labeled:

- R : Radius of the top corner.
- $L1$: Length of the first section.
- d : Diameter at the tip.
- θ° : Taper angle.
- $d2$: Diameter at the end of the second section.
- $L2$: Length of the second section.
- L : Total length of the drill bit.
- $D(h6)$: Diameter of the cylindrical section with a tolerance of $h6$.

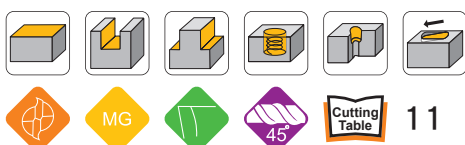
The diagram illustrates various types of cutting tools and their corresponding symbols, arranged in two rows. The top row shows seven 3D isometric views of different tool geometries: a simple rectangular block, a block with a U-shaped groove, a block with a stepped top surface, a block with a central slot, a block with a central hole, a block with a curved top surface, and a block with a flat top surface and a curved side. The bottom row shows seven corresponding symbols: a blue diamond with a white geometric pattern, a yellow diamond with 'MG', a grey diamond with 'TiAlN', a green diamond with a white 'R' and a curved arrow, a purple diamond with a white '35°' angle, a blue diamond with 'HRC 55', and a white rectangle with a black border and the text 'Cutting Table'.

➡ 切削條件表 P.534
Cutting Condition

➡ 技術資料 P.622
Technical Data

S220 MICRO GRAIN CARBIDE END MILLS FOR ALUMINUM- High Helix- 2F

- **CEX20000**



➡ **切削條件表** P.540
Cutting Condition

➡ **技術資料** P.622
Technical Data

S220 MICRO GRAIN CARBIDE END MILLS FOR ALUMINUM- High Helix- 3F

- **CEX30000**



➡ 切削條件表 P.540
Cutting Condition

➡ 技術資料 P.622
Technical Data

S220 MICRO GRAIN CARBIDE END MILLS FOR ALUMINUM- Extra High Helix- 3F

Technical drawing of a double-flute drill bit. The drawing shows the bit from the side, highlighting its double-flute design. Key dimensions are labeled: d for the cutting edge diameter, L_1 for the length of the cutting edge, L for the total length, and $D(h6)$ for the shank diameter with a tolerance of $h6$. A logo is visible on the shank.

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



➡ 切削條件表 P.540
Cutting Condition

➡ 技術資料 P.622
Technical Data

S220 MICRO GRAIN CARBIDE END MILLS FOR ALUMINUM- Power Cutting & Long Flute- 3F

A schematic diagram of a drill bit. The bit has a double-flute design. The cutting edge is highlighted with a rainbow-colored gradient. The length of the cutting edge is labeled L . The length of the cutting edge from the tip to the start of the smooth section is labeled L_1 . The diameter of the cutting edge is labeled d . The diameter of the smooth section is labeled $D(h6)$. The smooth section is marked with the CMT logo.

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



72



➡ 切削條件表 P.572
Cutting Condition

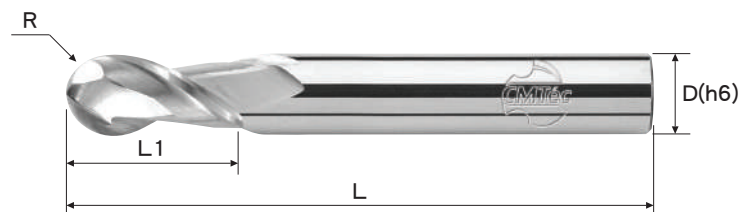
→ 技術資料 P.622
Technical Data

S220 鎢鋼鋁用球型銑刀- 小柄/標準型- 2刃

S220 MICRO GRAIN CARBIDE END MILLS FOR ALUMINUM- Ball Nose- 2F

· CEXBM20000

· CEXB20000



半徑 R	公差 Tolerance
R	±0.02
超精銑 Bright Finishing	—
精銑 Finishing	○
中銑 Semi Finishing	◎
粗銑 Roughing	◎



12

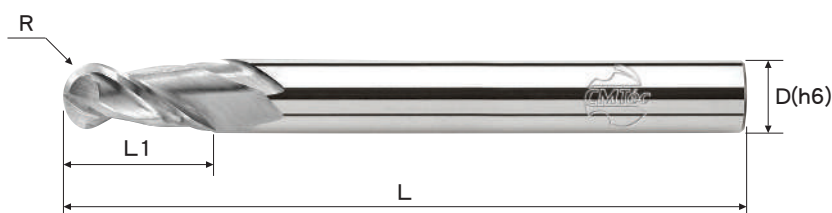


半徑 R	刃長 L1	全長 L	柄徑 D	刃數 F	白刀訂購編號 Uncoated Order No.
1.0R	4	50	4	2	CEXBM20100
2.0R	8	50	4	2	CEXBM20200
1.0R	4	50	6	2	CEXB20100
1.5R	6	50	6	2	CEXB20150
2.0R	8	50	6	2	CEXB20200
2.5R	10	50	6	2	CEXB20250
3.0R	12	50	6	2	CEXB20300
4.0R	16	60	8	2	CEXB20400
5.0R	20	75	10	2	CEXB20500
6.0R	24	75	12	2	CEXB20600
8.0R	32	100	16	2	CEXB20800

S220 鎢鋼鋁用球型銑刀- 長柄型- 2刃

S220 MICRO GRAIN CARBIDE END MILLS FOR ALUMINUM- Ball Nose- Long Shank- 2F

· CEXBL20000



半徑 R	公差 Tolerance
R	±0.02
超精銑 Bright Finishing	—
精銑 Finishing	○
中銑 Semi Finishing	◎
粗銑 Roughing	◎



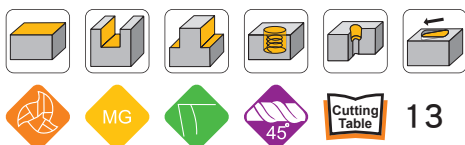
12

半徑 R	刃長 L1	全長 L	柄徑 D	刃數 F	白刀訂購編號 Uncoated Order No.
1.0R	4	75	6	2	CEXBL20100
2.0R	8	75	6	2	CEXBL20200
2.5R	10	75	6	2	CEXBL20250
3.0R	12	75	6	2	CEXBL20300
4.0R	16	100	8	2	CEXBL20400
5.0R	20	100	10	2	CEXBL20500
6.0R	24	100	12	2	CEXBL20600
8.0R	32	150	16	2	CEXBL20800

S220 MICRO GRAIN CARBIDE END MILLS FOR ALUMINUM- Wave Edge Type- 3F

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	◎



➡ 切削條件表 P.541
Cutting Condition

➡ 技術資料 P.622
Technical Data

S220 MICRO GRAIN CARBIDE END MILLS FOR ALUMINUM- Power Cutting- 3F

Technical drawing of a double-flute drill bit. The drawing shows the bit's geometry with the following dimensions labeled:

- d : Diameter of the drill bit.
- L_1 : Length of the double-flute section.
- L : Total length of the drill bit.
- $D(h6)$: Diameter of the drill bit shank, indicating a tolerance of $h6$.

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



72



➡ 切削條件表 P.572
Cutting Condition

→ 技術資料 P.622
Technical Data

S220 鎢鋼鋁用圓鼻銑刀- 強力型- 3刃

S220 MICRO GRAIN CARBIDE END MILLS FOR ALUMINUM- Corner Radius- Power Cutting- 3F

· CEXCRSHM3000000

· CEXCRSH3000000

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	—
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.
2.0	0.2R	6	50	4	3	CEXCRSHM3020002
2.0	0.3R	6	50	4	3	CEXCRSHM3020003
3.0	0.5R	9	50	4	3	CEXCRSHM3030005
3.0	1.0R	9	50	4	3	CEXCRSHM3030010
4.0	0.5R	12	50	4	3	CEXCRSHM3040005
4.0	1.0R	12	50	4	3	CEXCRSHM3040010
2.0	0.2R	6	50	6	3	CEXCRSH3020002
2.0	0.3R	6	50	6	3	CEXCRSH3020003
3.0	0.5R	9	50	6	3	CEXCRSH3030005
3.0	1.0R	9	50	6	3	CEXCRSH3030010
4.0	0.5R	12	50	6	3	CEXCRSH3040005
4.0	1.0R	12	50	6	3	CEXCRSH3040010
5.0	0.5R	15	50	6	3	CEXCRSH3050005
5.0	1.0R	15	50	6	3	CEXCRSH3050010
6.0	0.5R	18	50	6	3	CEXCRSH3060005
6.0	1.0R	18	50	6	3	CEXCRSH3060010
8.0	0.5R	24	60	8	3	CEXCRSH3080005
8.0	1.0R	24	60	8	3	CEXCRSH3080010
10.0	0.5R	30	75	10	3	CEXCRSH3100005
10.0	1.0R	30	75	10	3	CEXCRSH3100010
10.0	1.5R	30	75	10	3	CEXCRSH3100015
10.0	2.0R	30	75	10	3	CEXCRSH3100020
12.0	0.5R	35	75	12	3	CEXCRSH3120005
12.0	1.0R	35	75	12	3	CEXCRSH3120010
12.0	1.5R	35	75	12	3	CEXCRSH3120015
12.0	2.0R	35	75	12	3	CEXCRSH3120020
12.0	3.0R	35	75	12	3	CEXCRSH3120030
16.0	0.5R	40	100	16	3	CEXCRSH3160005
16.0	1.0R	40	100	16	3	CEXCRSH3160010
16.0	1.5R	40	100	16	3	CEXCRSH3160015
16.0	2.0R	40	100	16	3	CEXCRSH3160020
16.0	3.0R	40	100	16	3	CEXCRSH3160030
20.0	0.5R	45	100	20	3	CEXCRSH3200005
20.0	1.0R	45	100	20	3	CEXCRSH3200010
20.0	1.5R	45	100	20	3	CEXCRSH3200015
20.0	2.0R	45	100	20	3	CEXCRSH3200020
20.0	3.0R	45	100	20	3	CEXCRSH3200030

→ 切削條件表 P.572
Cutting Condition

→ 技術資料 P.622
Technical Data

S220

S220 Carbide End Mills

S220鎢鋼銑刀系列

S220 MICRO GRAIN CARBIDE END MILLS FOR ALUMINUM- High Performance- 3F

Technical drawing of a double-flute drill bit. The drawing shows the bit's profile with the following dimensions labeled:

- d : Diameter of the drill bit.
- L_1 : Length of the cutting edge.
- L : Total length of the drill bit.
- $D(h6)$: Diameter of the drill bit shank.

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	◎◎◎



➡ 切削條件表 P.575
Cutting Condition

➡ 技術資料 P.622
Technical Data

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



→ 切削條件表 P.575 → 技術資料 P.622
Cutting Condition Technical Data

S220 鎢鋼平銑刀- 波浪型- 2/3/4刃

S220 MICRO GRAIN CARBIDE END MILLS- Sinus Edge (Wave) Type- 2/3/4F

· CERS20000A

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

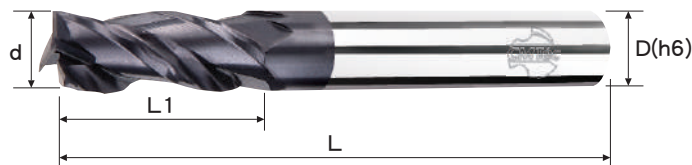
超精銑 Bright Finishing	—
精銑 Finishing	○
中銑 Semi Finishing	◎
粗銑 Roughing	◎



刃徑 d	刃長 L1	全長 L	柄徑 D	刃數 F	鍍膜訂購編號 Coated Order No.
6.0	15	50	6	2	CERS20600A
8.0	20	60	8	2	CERS20800A
10.0	25	75	10	2	CERS21000A
12.0	30	75	12	2	CERS21200A

· CERS30000A

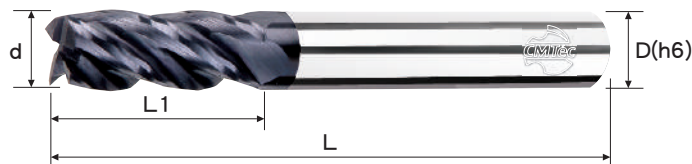
超精銑 Bright Finishing	—
精銑 Finishing	○
中銑 Semi Finishing	◎
粗銑 Roughing	◎



刃徑 d	刃長 L1	全長 L	柄徑 D	刃數 F	鍍膜訂購編號 Coated Order No.
6.0	15	50	6	3	CERS30600A
8.0	20	60	8	3	CERS30800A
10.0	25	75	10	3	CERS31000A
12.0	30	75	12	3	CERS31200A
16.0	40	100	16	3	CERS31600A
20.0	45	100	20	3	CERS32000A

· CERS40000A

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



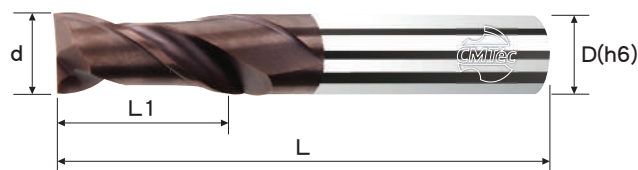
刃徑 d	刃長 L1	全長 L	柄徑 D	刃數 F	鍍膜訂購編號 Coated Order No.
6.0	15	50	6	4	CERS40600A
8.0	20	60	8	4	CERS40800A
10.0	25	75	10	4	CERS41000A
12.0	30	75	12	4	CERS41200A
16.0	40	100	16	4	CERS41600A
20.0	45	100	20	4	CERS42000A

S220 鎢鋼平銑刀- 強力小柄/標準型- 2刃

S220 MICRO GRAIN CARBIDE END MILLS- Square Type- Power Cutting- 2F

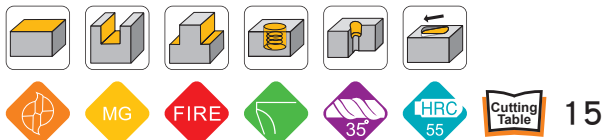
· CESHM20000F

· CESH20000F



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	○



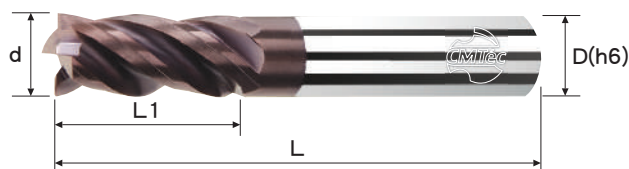
刃徑 d	刃長 L1	全長 L	柄徑 D	刃數 F	白刀訂購編號 Uncoated Order No.	鍍膜訂購編號 Coated Order No.
2.0	5	50	4	2	CESHM20200	CESHM20200F
3.0	8	50	4	2	CESHM20300	CESHM20300F
4.0	10	50	4	2	CESHM20400	CESHM20400F
3.0	8	50	6	2	CESH20300	CESH20300F
4.0	10	50	6	2	CESH20400	CESH20400F
5.0	13	50	6	2	CESH20500	CESH20500F
6.0	15	50	6	2	CESH20600	CESH20600F
8.0	20	60	8	2	CESH20800	CESH20800F
10.0	25	75	10	2	CESH21000	CESH21000F
12.0	30	75	12	2	CESH21200	CESH21200F
16.0	35	100	16	2	CESH21600	CESH21600F

S220 鎢鋼平銑刀- 強力小柄/標準型- 4刃

S220 MICRO GRAIN CARBIDE END MILLS- Square Type- Power Cutting- 4F

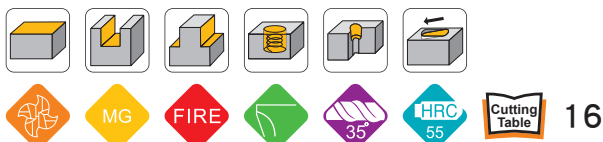
· CESHM40000F

· CESH40000F



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.
2.0	5	50	4	4	CESHM40200	CESHM40200F
3.0	8	50	4	4	CESHM40300	CESHM40300F
4.0	10	50	4	4	CESHM40400	CESHM40400F
3.0	8	50	6	4	CESH40300	CESH40300F
4.0	10	50	6	4	CESH40400	CESH40400F
5.0	13	50	6	4	CESH40500	CESH40500F
6.0	15	50	6	4	CESH40600	CESH40600F
8.0	20	60	8	4	CESH40800	CESH40800F
10.0	25	75	10	4	CESH41000	CESH41000F
12.0	30	75	12	4	CESH41200	CESH41200F
16.0	35	100	16	4	CESH41600	CESH41600F

S220 鎢鋼平銑刀- 強力高導小柄/標準型- 2刃

S220 MICRO GRAIN CARBIDE END MILLS- Square Type- Power Cutting & High Helix- 2F

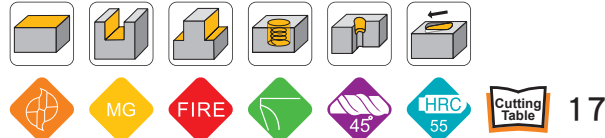
· CEHSM20000F

· CEHS20000F



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	○



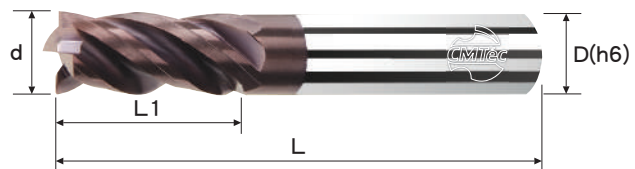
刃徑 d	刃長 L1	全長 L	柄徑 D	刃數 F	白刀訂購編號 Uncoated Order No.	鍍膜訂購編號 Coated Order No.
2.0	5	50	4	2	CEHSM20200	CEHSM20200F
3.0	8	50	4	2	CEHSM20300	CEHSM20300F
4.0	10	50	4	2	CEHSM20400	CEHSM20400F
3.0	8	50	6	2	CEHS20300	CEHS20300F
4.0	10	50	6	2	CEHS20400	CEHS20400F
5.0	13	50	6	2	CEHS20500	CEHS20500F
6.0	15	50	6	2	CEHS20600	CEHS20600F
8.0	20	60	8	2	CEHS20800	CEHS20800F
10.0	25	75	10	2	CEHS21000	CEHS21000F
12.0	30	75	12	2	CEHS21200	CEHS21200F
16.0	35	100	16	2	CEHS21600	CEHS21600F

S220 鎢鋼平銑刀- 強力高導小柄/標準型- 4刃

S220 MICRO GRAIN CARBIDE END MILLS- Square Type- Power Cutting & High Helix- 4F

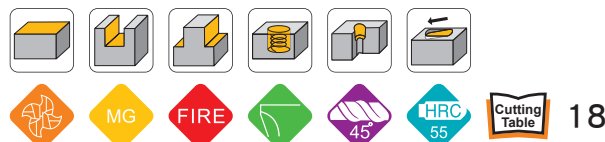
· CEHSM40000F

· CEHS40000F



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	○



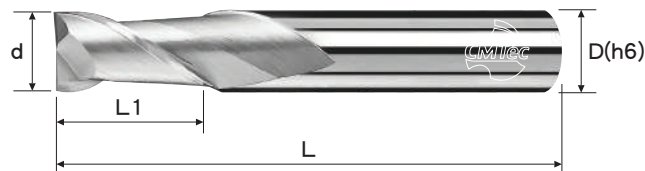
刃徑 d	刃長 L1	全長 L	柄徑 D	刃數 F	白刀訂購編號 Uncoated Order No.	鍍膜訂購編號 Coated Order No.
2.0	5	50	4	4	CEHSM40200	CEHSM40200F
3.0	8	50	4	4	CEHSM40300	CEHSM40300F
4.0	10	50	4	4	CEHSM40400	CEHSM40400F
3.0	8	50	6	4	CEHS40300	CEHS40300F
4.0	10	50	6	4	CEHS40400	CEHS40400F
5.0	13	50	6	4	CEHS40500	CEHS40500F
6.0	15	50	6	4	CEHS40600	CEHS40600F
8.0	20	60	8	4	CEHS40800	CEHS40800F
10.0	25	75	10	4	CEHS41000	CEHS41000F
12.0	30	75	12	4	CEHS41200	CEHS41200F
16.0	35	100	16	4	CEHS41600	CEHS41600F

S220 鎢鋼銅鋁用平銑刀- 小柄/標準型- 2刃

S220 CARBIDE END MILLS FOR COPPER & ALUMINUM- Square Type- 2F

· CESC20000-00A

· CESC20000-00A



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.
0.5	1	50	4	2	CESCM20050-25	CESCM20050-25A
1.0	2	50	4	2	CESCM20100-25	CESCM20100-25A
1.5	3	50	4	2	CESCM20150-25	CESCM20150-25A
2.0	4	50	4	2	CESCM20200-25	CESCM20200-25A
2.5	5	50	4	2	CESCM20250-25	CESCM20250-25A
3.0	6	50	6	2	CESC20300-25	CESC20300-25A
4.0	8	50	6	2	CESC20400-25	CESC20400-25A
5.0	10	60	6	2	CESC20500-25	CESC20500-25A
6.0	12	60	6	2	CESC20600-25	CESC20600-25A
8.0	16	60	8	2	CESC20800-25	CESC20800-25A
10.0	20	75	10	2	CESC21000-25	CESC21000-25A
12.0	24	75	12	2	CESC21200-25	CESC21200-25A

· CESC20000-00A

· CESC20000-00A

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

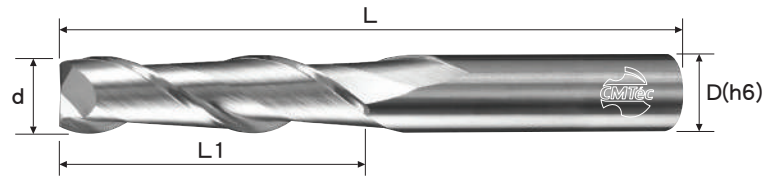


刃徑 d	刃長 L1	全長 L	柄徑 D	刃數 F	白刀訂購編號 Uncoated Order No.	鍍膜訂購編號 Coated Order No.
0.5	1	50	4	2	CESCM20050-45	CESCM20050-45A
1.0	2	50	4	2	CESCM20100-45	CESCM20100-45A
1.5	3	50	4	2	CESCM20150-45	CESCM20150-45A
2.0	4	50	4	2	CESCM20200-45	CESCM20200-45A
2.5	5	50	4	2	CESCM20250-45	CESCM20250-45A
3.0	6	50	6	2	CESC20300-45	CESC20300-45A
4.0	8	50	6	2	CESC20400-45	CESC20400-45A
5.0	10	60	6	2	CESC20500-45	CESC20500-45A
6.0	12	60	6	2	CESC20600-45	CESC20600-45A
8.0	16	60	8	2	CESC20800-45	CESC20800-45A
10.0	20	75	10	2	CESC21000-45	CESC21000-45A
12.0	24	75	12	2	CESC21200-45	CESC21200-45A

S220 鎢鋼銅鋁用平銑刀- 長刃型- 2刃

S220 CARBIDE END MILLS FOR COPPER & ALUMINUM- Square Type- Long Flute- 2F

· CELFC20000-00A



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	12	60	6	2	CELFC20300-25	CELFC20300-25A
4.0	16	60	6	2	CELFC20400-25	CELFC20400-25A
5.0	20	75	6	2	CELFC20500-25	CELFC20500-25A
6.0	24	75	6	2	CELFC20600-25	CELFC20600-25A
8.0	32	90	8	2	CELFC20800-25	CELFC20800-25A
10.0	40	100	10	2	CELFC21000-25	CELFC21000-25A
12.0	48	110	12	2	CELFC21200-25	CELFC21200-25A

· CELFC20000-00A

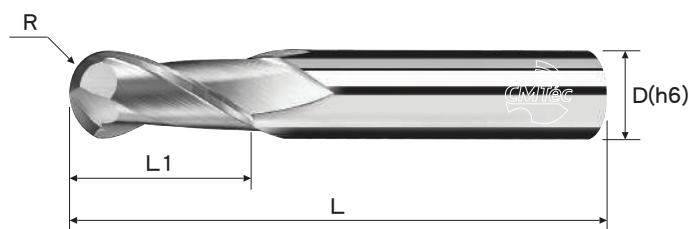
超精銑 Bright Finishing	○
精銑 Finishing	◎
中銑 Semi Finishing	○
粗銑 Roughing	—



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	12	60	6	2	CELFC20300-45	CELFC20300-45A
4.0	16	60	6	2	CELFC20400-45	CELFC20400-45A
5.0	20	75	6	2	CELFC20500-45	CELFC20500-45A
6.0	24	75	6	2	CELFC20600-45	CELFC20600-45A
8.0	32	90	8	2	CELFC20800-45	CELFC20800-45A
10.0	40	100	10	2	CELFC21000-45	CELFC21000-45A
12.0	48	110	12	2	CELFC21200-45	CELFC21200-45A

S220 CARBIDE END MILLS FOR COPPER & ALUMINUM- Ball Nose- 2F

▪ **CEBC20000A**



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



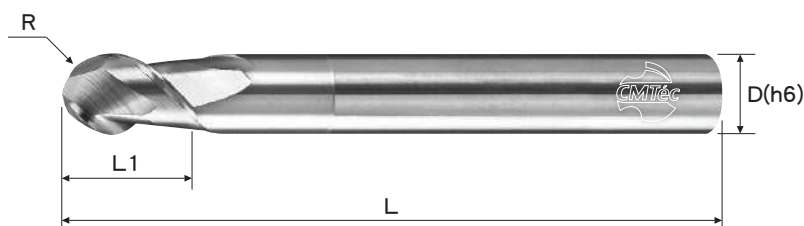
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→ 切削條件表 P.545
Cutting Condition

→ 技術資料
Technical Data

S220 CARBIDE END MILLS FOR COPPER & ALUMINUM- Ball Nose- Long Neck- 2F

- **CEBNC20000A**



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



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➡ 切削條件表 P.546
Cutting Condition

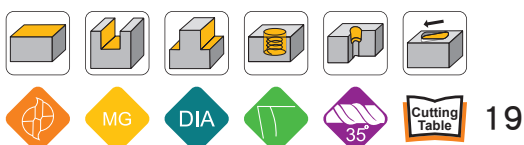
→ 技術資料 P.622
Technical Data

S220 CARBIDE END MILLS FOR GRAPHITE- Square Type- 2F

- **CESG2000A**



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



➡ 切削條件表 P.544
Cutting Condition

➡ 技術資料 P.622
Technical Data

S220 CARBIDE END MILLS FOR GRAPHITE- Square Type- 4F

▪ **CESG40000A**



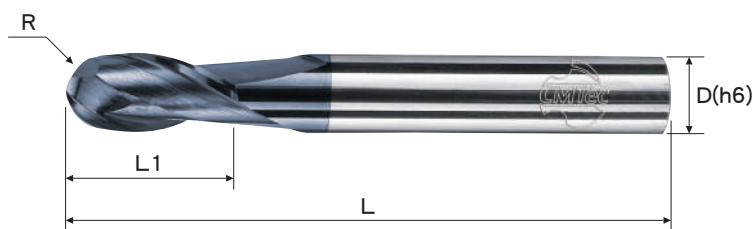
MG DIA 35 Cutting Table 19

➡ 切削條件表 P.544
Cutting Condition

➡ 技術資料 P.622
Technical Data

S220 CARBIDE END MILLS FOR GRAPHITE- Ball Nose- 2F

▪ **CEBG20000A**



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



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→ 切削條件表 Cutting Condition P.544

→ 技術資料
Technical Data