

# 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。


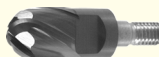






















Cutting tools for parts and components processing.

包裝盒蓋 / 黃色

Color of S220 packaging box / Yellow




















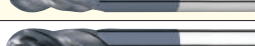









## 產品選擇表 Product Selection Table

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
	點數 / 英寸 平刀 Decimal / Inch Dia. Square	二刃 2 Flutes	CESM20000A	點數型 -Decimal Dia.		Ø1.1 ~ Ø3.9
CES20000A			點數型 -Decimal Dia.		Ø1.1 ~ Ø10.9	37 ~ 39
CEI20000A			英寸型 -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			
												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)	—	○	◎	○
○	○	○	—	—	○	◎	—	—	—	—	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)	○	◎	○	—
○	○	○	—	—	○	◎	—	—	—	—	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)	—	○	◎	○
○	○	○	—	—	○	◎	—	—	—	—	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)	○	◎	○	—

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	CEN2000000A			Ø1 ~ Ø4	44
	四刃 4 Flutes	CEN4000000A			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(精造型) 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
		CEBL20000A	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			
												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)	○	◎	◎	○
○	○	○	○	—	○	◎	—	○	—	—	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)	—	—	○	◎
○	○	○	○	—	○	◎	—	—	—	—	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)	—	○	◎	○
○	○	○	—	—	○	◎	—	—	—	—	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)	○	◎	○	—
○	○	○	—	—	○	◎	—	—	—	—	乾式 / 濕式 (Dry / Wet)	○	◎	○	—
○	○	○	—	—	○	◎	—	—	—	—	乾式 / 濕式 (Dry / Wet)	—	○	◎	○
○	○	○	—	—	○	◎	—	—	—	—	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








## 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.						
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°		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	高導型 -High Helix		Ø3 ~ Ø20	73	
長刃平刀 Long Flute Square	三刃 3 Flutes	CEXHF(M)30000R	強力型 -Power Cutting		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		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		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			
												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)	—	○	◎	◎
○	○	○	—	—	○	◎	—	—	—	—	乾式 / 濕式 (Dry / Wet)	—	○	◎	◎
○	○	○	—	—	○	◎	—	—	—	—	乾式 / 濕式 (Dry / Wet)	○	◎	◎	○
○	○	○	—	—	○	◎	—	—	—	—	乾式 / 濕式 (Dry / Wet)	○	◎	◎	○
○	○	○	—	—	○	◎	—	—	—	—	乾式 / 濕式 (Dry / Wet)	—	○	◎	◎
—	—	—	—	—	—	—	◎	○	—	—	濕式(Wet)	—	○	◎	◎
—	—	—	—	—	—	—	◎	○	—	—	濕式(Wet)	—	○	◎	◎
—	—	—	—	—	—	—	◎	○	—	—	濕式(Wet)	—	○	◎	◎
—	—	—	—	—	—	—	◎	○	—	—	濕式(Wet)	—	◎	◎	○
—	—	—	—	—	—	—	◎	○	—	—	濕式(Wet)	—	◎	◎	○
—	—	—	—	—	—	—	◎	○	—	—	濕式(Wet)	—	◎	◎	○
—	—	—	—	—	—	—	◎	◎	—	—	濕式(Wet)	○	◎	○	—
—	—	—	—	—	—	—	◎	○	—	—	濕式(Wet)	—	◎	◎	○
—	—	—	—	—	—	—	◎	◎	—	—	濕式(Wet)	—	○	◎	◎
—	—	—	—	—	—	—	◎	◎	—	—	濕式(Wet)	—	○	◎	◎
—	—	—	—	—	—	—	◎	◎	—	—	乾式 / 濕式 (Dry / Wet)	—	◎	◎	◎
—	—	—	—	—	—	—	◎	◎	—	—	乾式 / 濕式 (Dry / Wet)	—	◎	◎	◎
—	—	—	—	—	—	—	◎	◎	—	—	濕式(Wet)	—	◎	◎	◎
—	—	—	—	—	—	—	◎	◎	—	—	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	CEBNM20000A			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



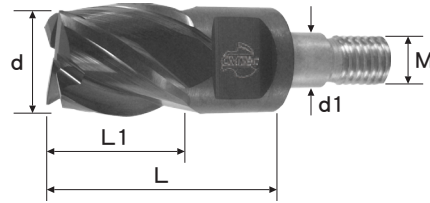
碳素鋼 Carbon Steels (<20HRC)	合金鋼 Alloy Steels (20-30HRC)	合金鋼 Alloy Steels (30-45HRC)	調質鋼 Hardened Steels (45-55HRC)	調質鋼 Hardened Steels (55-65HRC)	不銹鋼 Stainless Steels	鑄鐵 Cast Iron	鋁合金 Aluminum Alloys	銅 Copper	非金屬 Non-metal	高溫合金 High-Temp Alloys	冷卻方式推薦 Suitable Coolant	加工型態 Type of Finishing			
												A	B	C	D
含矽>7% (Si>7%)															
○	○	○	○	—	—	○	○	○	—	○	濕式(Wet)	—	○	◎	◎
○	○	○	○	—	—	○	○	○	—	○	濕式(Wet)	—	○	◎	◎
○	○	○	○	—	—	○	○	○	—	○	濕式(Wet)	—	◎	◎	◎
○	○	○	○	—	○	○	○	○	—	—	濕式(Wet)	—	○	◎	○
○	○	○	○	—	○	○	○	○	—	—	濕式(Wet)	—	◎	◎	○
○	○	○	○	—	○	○	○	○	—	—	濕式(Wet)	—	○	◎	○
○	○	○	○	—	○	○	○	○	—	—	濕式(Wet)	—	◎	◎	○
—	—	—	—	—	—	—	○	○	—	—	濕式(Wet)	—	◎	◎	○
—	—	—	—	—	—	—	○	○	—	—	濕式(Wet)	—	◎	◎	○
—	—	—	—	—	—	—	○	○	—	—	濕式(Wet)	○	◎	○	—
—	—	—	—	—	—	—	○	○	—	—	濕式(Wet)	○	◎	○	—
—	—	—	—	—	—	—	○	○	—	—	濕式(Wet)	○	◎	○	—
—	—	—	—	—	—	—	○	○	—	—	濕式(Wet)	—	◎	◎	○
—	—	—	—	—	—	—	○	○	—	—	濕式(Wet)	—	◎	◎	○
—	—	—	—	—	—	—	○	○	—	—	濕式(Wet)	—	◎	◎	○
—	—	—	—	—	—	—	○	○	—	—	濕式(Wet)	—	◎	◎	○
—	—	—	—	—	—	—	○	○	—	—	濕式(Wet)	—	◎	◎	○
—	—	—	—	—	—	—	○	○	—	—	濕式(Wet)	—	◎	◎	○
—	—	—	—	—	—	—	○	○	—	—	濕式(Wet)	—	◎	◎	○
—	—	—	—	—	—	—	○	○	—	—	乾式 / 濕式 (Dry / Wet)	—	○	◎	◎
—	—	—	—	—	—	—	—	—	○	—	乾式 / 濕式 (Dry / Wet)	—	◎	◎	○
—	—	—	—	—	—	—	—	—	○	—	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

# 鎖牙式- S220 鎢鋼平銑刀頭- 標準型- 4刃

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

· CHS40000A



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	○



179



刃徑 d	刃長 L1	全長 L	螺紋M Thread	d1	刃數 F	扳手編號 Wrench	白刀訂購編號 Uncoated Order No.	鍍膜訂購編號 Coated Order No.
8.0	8	17.0	M4×0.7	4.5	4	TC06	CHS40800	CHS40800A
10.0	10	20.0	M5×0.8	5.5	4	TC07	CHS41000	CHS41000A
12.0	12	23.2	M6×1.0	6.5	4	TC08	CHS41200	CHS41200A
16.0	16	30.0	M8×1.25	8.5	4	TC11	CHS41600	CHS41600A
20.0	20	37.2	M10×1.5	10.5	4	TC15	CHS42000	CHS42000A
25.0	25	44.7	M12×1.75	12.5	4	TC19	CHS42500	CHS42500A
32.0	32	55.2	M16×2.0	17.0	4	TC24	CHS43200	CHS43200A

S220

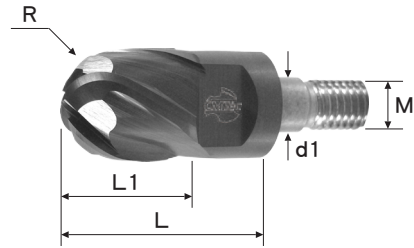
S220 Carbide End Mills

S220鎢鋼銑刀系列

# 鎖牙式- S220 鎢鋼球型銑刀頭- 標準型- 4刃

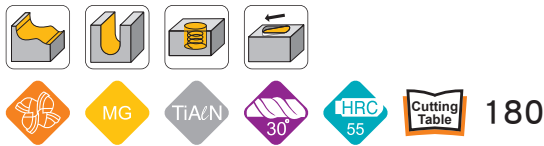
THREAD- S220 MICRO GRAIN CARBIDE END MILLS- Ball Nose- 4F

· **CHB40000A**



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	螺紋 M Thread	d1	刃數 F	扳手編號 Wrench	白刀訂購編號 Uncoated Order No.	鍍膜訂購編號 Coated Order No.
4.0R	8	17.0	M4×0.7	4.5	4	TC06	CHB40400	CHB40400A
5.0R	10	20.0	M5×0.8	5.5	4	TC07	CHB40500	CHB40500A
6.0R	12	23.2	M6×1.0	6.5	4	TC08	CHB40600	CHB40600A
8.0R	16	30.0	M8×1.25	8.5	4	TC11	CHB40800	CHB40800A
10.0R	20	37.2	M10×1.5	10.5	4	TC15	CHB41000	CHB41000A
12.5R	25	44.7	M12×1.75	12.5	4	TC19	CHB41250	CHB41250A

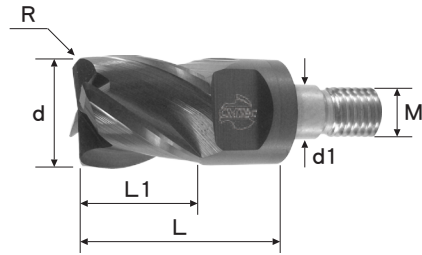
→ 搭配刀桿 Holder P.029, 030    → 切削條件表 Cutting Condition P.607    → 技術資料 Technical Data P.622

S220 S220 Carbide End Mills S220 鎢鋼銑刀系列

# 鎖牙式- S220 鎢鋼圓鼻銑刀頭- 標準型- 4刃

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

· CHCR4000000A



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	螺紋 M Thread	d1	刃數 F	扳手 編號 Wrench	白刀訂購編號 Uncoated Order No.	鍍膜訂購編號 Coated Order No.
8.0	0.5R	8	17.0	M4×0.7	4.5	4	TC06	CHCR4080005	CHCR4080005A
8.0	1.0R	8	17.0	M4×0.7	4.5	4	TC06	CHCR4080010	CHCR4080010A
8.0	2.0R	8	17.0	M4×0.7	4.5	4	TC06	CHCR4080020	CHCR4080020A
10.0	0.5R	10	20.0	M5×0.8	5.5	4	TC07	CHCR4100005	CHCR4100005A
10.0	1.0R	10	20.0	M5×0.8	5.5	4	TC07	CHCR4100010	CHCR4100010A
10.0	2.0R	10	20.0	M5×0.8	5.5	4	TC07	CHCR4100020	CHCR4100020A
12.0	1.0R	12	23.2	M6×1.0	6.5	4	TC08	CHCR4120010	CHCR4120010A
12.0	2.0R	12	23.2	M6×1.0	6.5	4	TC08	CHCR4120020	CHCR4120020A
12.0	3.0R	12	23.2	M6×1.0	6.5	4	TC08	CHCR4120030	CHCR4120030A
16.0	1.0R	16	30.0	M8×1.25	8.5	4	TC11	CHCR4160010	CHCR4160010A
16.0	2.0R	16	30.0	M8×1.25	8.5	4	TC11	CHCR4160020	CHCR4160020A
16.0	3.0R	16	30.0	M8×1.25	8.5	4	TC11	CHCR4160030	CHCR4160030A
20.0	2.0R	20	37.2	M10×1.5	10.5	4	TC15	CHCR4200020	CHCR4200020A
20.0	3.0R	20	37.2	M10×1.5	10.5	4	TC15	CHCR4200030	CHCR4200030A
20.0	4.0R	20	37.2	M10×1.5	10.5	4	TC15	CHCR4200040	CHCR4200040A

S220 S220 Carbide End Mills S220 鎢鋼銑刀系列

# 鎢鋼抗震刀桿

## CARBIDE ANTI-VIBRATION HOLDER

· **LCL000-000L**



MG

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

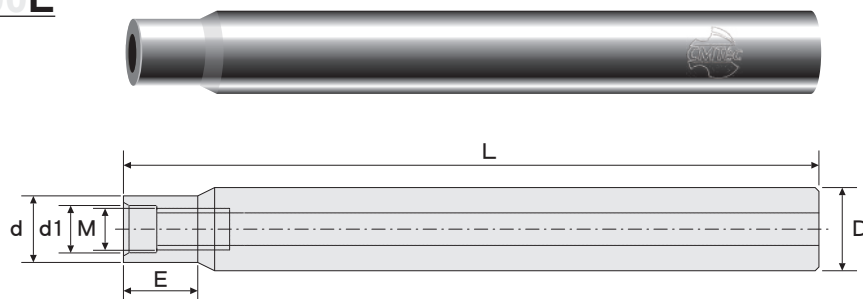
S2220 S2220 Carbide End Mills S2220 鎢鋼銑刀系列



# 鎢鋼抗震刀桿- 頸型

## CARBIDE ANTI-VIBRATION HOLDER- NECK

· **LCN000-000L-000E**



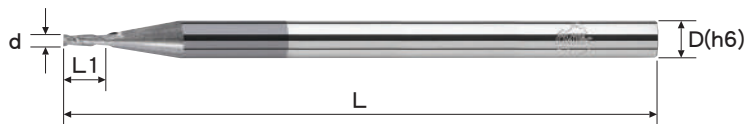
MG

螺紋M Thread	刃徑 d	d1	有效長 E	全長 L	柄徑 D	訂購編號 Order No.
M6 × 1.0	11.7	6.5	30	75	12	LCN011-075L-030E
M6 × 1.0	11.7	6.5	40	100	12	LCN011-100L-040E
M6 × 1.0	11.7	6.5	50	150	12	LCN011-150L-050E
M8 × 1.25	15.7	8.5	40	100	16	LCN015-100L-040E
M8 × 1.25	15.7	8.5	50	150	16	LCN015-150L-050E
M10 × 1.5	19.5	10.5	40	100	20	LCN019-100L-040E
M10 × 1.5	19.5	10.5	50	150	20	LCN019-150L-050E
M10 × 1.5	19.5	10.5	60	200	20	LCN019-200L-060E
M12 × 1.75	24.5	12.5	40	100	25	LCN024-100L-040E
M12 × 1.75	24.5	12.5	50	150	25	LCN024-150L-050E
M12 × 1.75	24.5	12.5	60	200	25	LCN024-200L-060E
M12 × 1.75	24.5	12.5	80	250	25	LCN024-250L-080E
M16 × 2.0	31.5	17.0	40	100	32	LCN031-100L-040E
M16 × 2.0	31.5	17.0	50	150	32	LCN031-150L-050E
M16 × 2.0	31.5	17.0	60	200	32	LCN031-200L-060E
M16 × 2.0	31.5	17.0	80	250	32	LCN031-250L-080E

# S220 鎢鋼平銑刀- 微柄/小柄型- 2刃

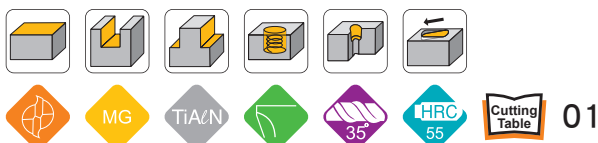
S220 MICRO GRAIN CARBIDE END MILLS- Square Type- Micro Diameter- 2F

- 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 P.534  
→ 技術資料 P.622  
Technical Data P.622

S220

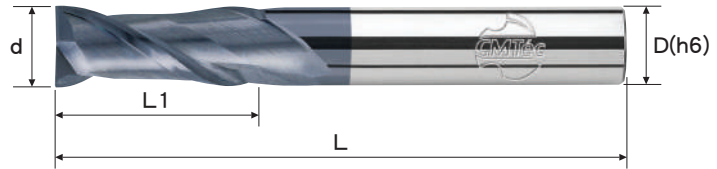
S220 Carbide End Mills

S220 鎢鋼銑刀系列

# S220 鎢鋼平銑刀- 標準型- 2刃

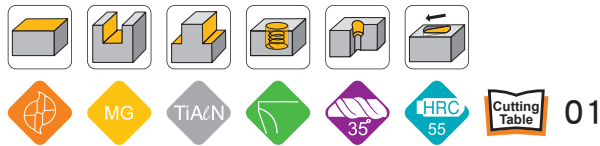
## S220 MICRO GRAIN CARBIDE END MILLS- Square Type- 2F

### · 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 P.534  
Cutting Condition P.534

→ 技術資料 P.622  
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

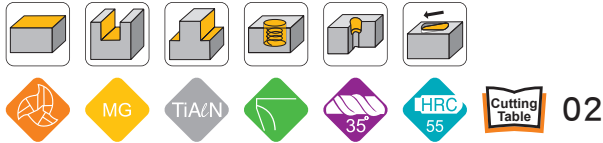
· CESH30000A

· 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	CESH30200	CESH30200A
2.5	6	50	4	3	CESH30250	CESH30250A
3.0	8	50	4	3	CESH30300	CESH30300A
3.5	9	50	4	3	CESH30350	CESH30350A
4.0	10	50	4	3	CESH30400	CESH30400A
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

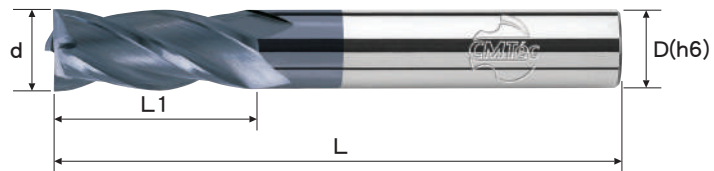
S220 Carbide End Mills

S220 鎢鋼銑刀系列

# S220 鎢鋼平銑刀- 微柄/小柄型- 4刃

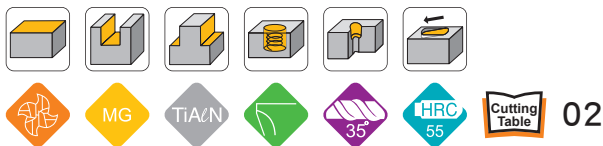
## S220 MICRO GRAIN CARBIDE END MILLS- Square Type- 4F

- **CESS40000A**
- **CESM40000A**



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="checkbox"/>



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	CESS40100	CESS40100A
1.5	4	50	3	4	CESS40150	CESS40150A
2.0	5	50	3	4	CESS40200	CESS40200A
2.5	6	50	3	4	CESS40250	CESS40250A
3.0	8	50	3	4	CESS40300	CESS40300A
1.0	3	50	4	4	CESM40100	CESM40100A
1.5	4	50	4	4	CESM40150	CESM40150A
2.0	5	50	4	4	CESM40200	CESM40200A
2.5	6	50	4	4	CESM40250	CESM40250A
3.0	8	50	4	4	CESM40300	CESM40300A
3.5	9	50	4	4	CESM40350	CESM40350A
4.0	10	50	4	4	CESM40400	CESM40400A

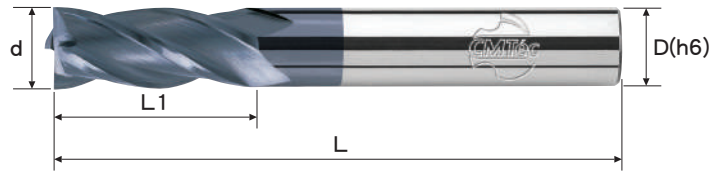
※ 0.2以上採攻面寬型式。  
From 0.2 and larger have flatland type.  
※ 尖角型式依需求生產。  
Sharp corner type is on request.



# S220 鎢鋼平銑刀- 標準型- 4刃

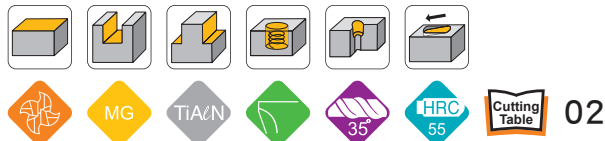
S220 MICRO GRAIN CARBIDE END MILLS- Square Type- 4F

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



NEW SIZE

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

S220

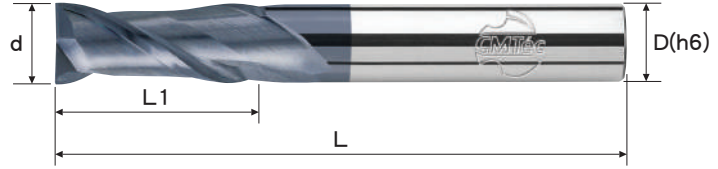
S220 Carbide End Mills

S220 鎢鋼銑刀系列

# S220 鎢鋼平銑刀- 小柄點數型- 2刃

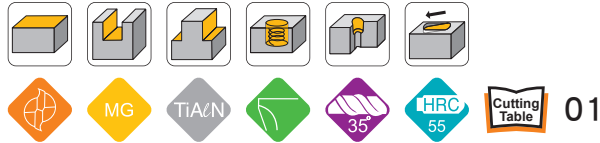
S220 MICRO GRAIN CARBIDE END MILLS- Square Type- 2F- Decimal Diameter

· CESM20000A



刃徑 d	公差 Tolerance
φ < 3	0 ~ -0.02
3 ≤ φ ≤ 10	-0.01 ~ -0.03
10 < φ	-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	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

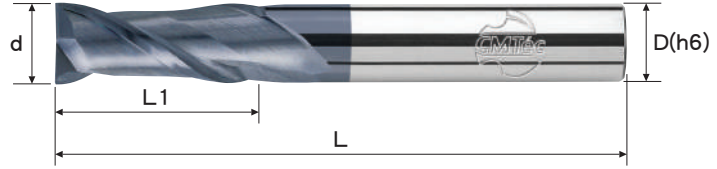
※ 0.2以上採攻面寬型式。  
From 0.2 and larger have flatland type.  
※ 尖角型式依需求生產。  
Sharp corner type is on request.

S220 S220 Carbide End Mills S220鎢鋼銑刀系列

# S220 鎢鋼平銑刀- 點數型- 2刃

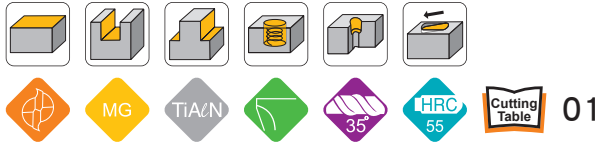
S220 MICRO GRAIN CARBIDE END MILLS- Square Type- 2F- Decimal Diameter

· 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.

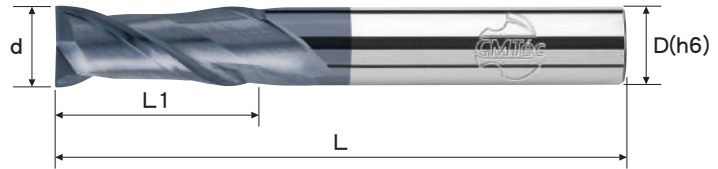
→ 切削條件表 P.534 → 技術資料 P.622  
Cutting Condition Technical Data

S220 S220 Carbide End Mills S220鎢鋼銑刀系列

# S220 鎢鋼平銑刀- 點數型- 2刃

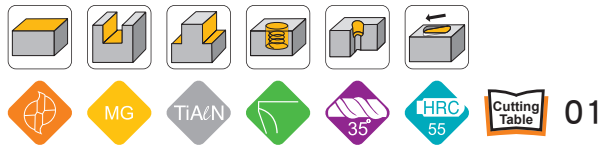
S220 MICRO GRAIN CARBIDE END MILLS- Square Type- 2F- Decimal Diameter

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

S220

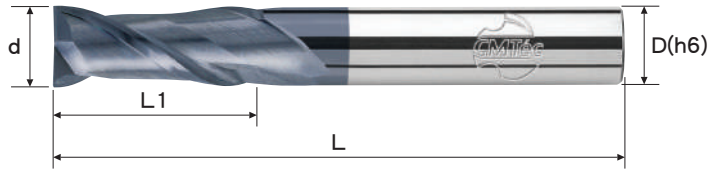
S220 Carbide End Mills

S220鎢鋼銑刀系列

# S220 鎢鋼平銑刀- 點數型- 2刃

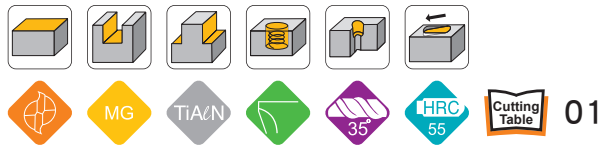
S220 MICRO GRAIN CARBIDE END MILLS- Square Type- 2F- Decimal Diameter

## · 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	○



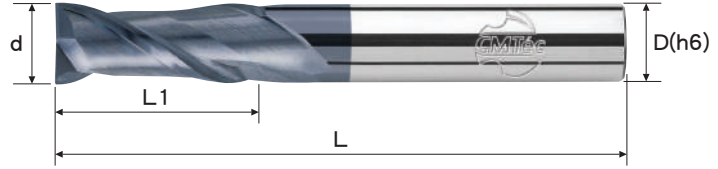
刃徑 d	刃長 L1	全長 L	柄徑 D	刃數 F	白刀訂購編號 Uncoated Order No.	鍍膜訂購編號 Coated Order No.
7.6	18	60	8	2	CES20760	CES20760A
7.7	18	60	8	2	CES20770	CES20770A
7.8	18	60	8	2	CES20780	CES20780A
7.9	18	60	8	2	CES20790	CES20790A
8.1	20	75	10	2	CES20810	CES20810A
8.2	20	75	10	2	CES20820	CES20820A
8.3	20	75	10	2	CES20830	CES20830A
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



# S220 鎢鋼平銑刀- 英吋型- 2刃

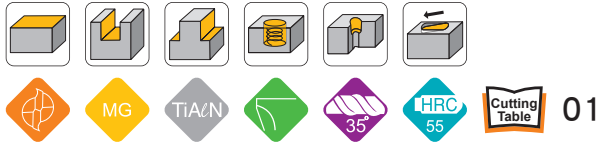
## S220 MICRO GRAIN CARBIDE END MILLS- Square Type- 2F- Inch Diameter

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	○



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.
1/16(1.58)	5	50	4	2	CEI20116	CEI20116A
5/64(1.98)	5	50	4	2	CEI20564	CEI20564A
3/32(2.38)	6	50	4	2	CEI20332	CEI20332A
1/8 (3.18)	10	50	4	2	CEI20108	CEI20108A
5/32(3.97)	10	50	6	2	CEI20532	CEI20532A
3/16(4.76)	13	50	6	2	CEI20316	CEI20316A
1/4 (6.35)	18	60	8	2	CEI20104	CEI20104A
5/16(7.94)	20	60	8	2	CEI20516	CEI20516A
3/8 (9.53)	21	75	10	2	CEI20308	CEI20308A
1/2 (12.7)	25	75	12	2	CEI20102	CEI20102A

**S220** S220 Carbide End Mills  
 S220鎢鋼銑刀系列

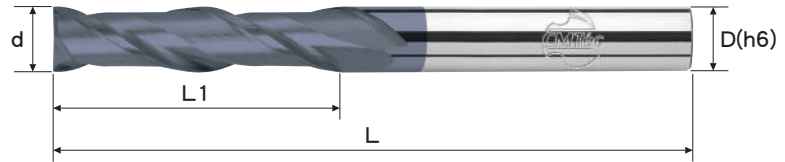
# S220 鎢鋼平銑刀- 長刃小柄(標準)/特長刃型- 2刃

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

· CELFM20000A

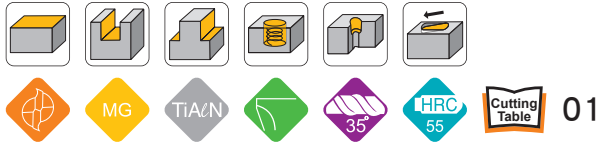
· CELF20000A

· CEFF20000A



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	<input type="radio"/>
中銑 Semi Finishing	<input checked="" 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.
2.0	10	50	4	4	CELM20200	CELM20200A
3.0	15	60	4	4	CELM20300	CELM20300A
4.0	20	60	4	4	CELM20400	CELM20400A
3.0	15	60	6	4	CELF20300	CELF20300A
4.0	20	60	6	4	CELF20400	CELF20400A
5.0	25	75	6	4	CELF20500	CELF20500A
6.0	30	75	6	4	CELF20600	CELF20600A
8.0	35	100	8	4	CELF20800	CELF20800A
10.0	45	100	10	4	CELF21000	CELF21000A
12.0	45	100	12	4	CELF21200	CELF21200A
14.0	70	150	14	4	CELF2140014	CELF2140014A
14.0	70	150	16	4	CELF21400	CELF21400A
16.0	70	150	16	4	CELF21600	CELF21600A
18.0	75	150	20	4	CELF21800	CELF21800A
20.0	75	150	20	4	CELF22000	CELF22000A
25.0	75	150	25	4	CELF22500	CELF22500A
10.0	55	100	10	4	CEFF21000	CEFF21000A
12.0	55	100	12	4	CEFF21200	CEFF21200A
16.0	80	150	16	4	CEFF21600	CEFF21600A
20.0	90	150	20	4	CEFF22000	CEFF22000A

S220  
S220 Carbide End Mills

S220鎢鋼銑刀系列

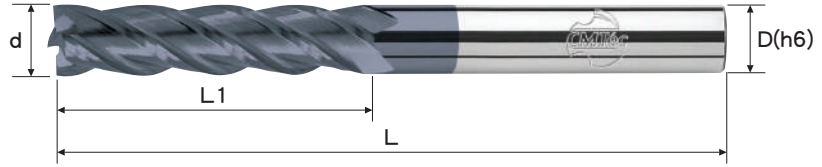
# S220 鎢鋼平銑刀- 長刃小柄(標準)/特長刃型- 4刃

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

・ CELFM40000A

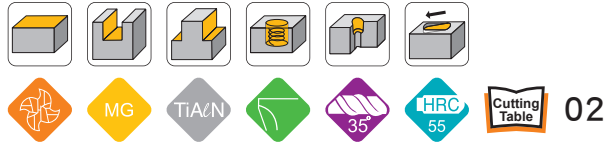
・ CELF40000A

・ 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	<input type="radio"/>
精銑 Finishing	<input checked="" type="radio"/>
中銑 Semi Finishing	<input type="radio"/>
粗銑 Roughing	<input type="checkbox"/>



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	5	50	4	4	CELFM40100	CELFM40100A
2.0	10	50	4	4	CELFM40200	CELFM40200A
3.0	15	60	4	4	CELFM40300	CELFM40300A
4.0	20	60	4	4	CELFM40400	CELFM40400A
3.0	15	60	6	4	CELF40300	CELF40300A
4.0	20	60	6	4	CELF40400	CELF40400A
5.0	25	75	6	4	CELF40500	CELF40500A
6.0	30	75	6	4	CELF40600	CELF40600A
8.0	35	100	8	4	CELF40800	CELF40800A
10.0	45	100	10	4	CELF41000	CELF41000A
12.0	45	100	12	4	CELF41200	CELF41200A
14.0	70	150	14	4	CELF4140014	CELF4140014A
14.0	70	150	16	4	CELF41400	CELF41400A
16.0	70	150	16	4	CELF41600	CELF41600A
18.0	75	150	20	4	CELF41800	CELF41800A
20.0	75	150	20	4	CELF42000	CELF42000A
25.0	75	150	25	4	CELF42500	CELF42500A
10.0	55	100	10	4	CEFF41000	CEFF41000A
12.0	55	100	12	4	CEFF41200	CEFF41200A
16.0	80	150	16	4	CEFF41600	CEFF41600A
20.0	90	150	20	4	CEFF42000	CEFF42000A

S220 S220 Carbide End Mills S220鎢鋼銑刀系列

# S220 鎢鋼平銑刀- 長柄型- 2刃

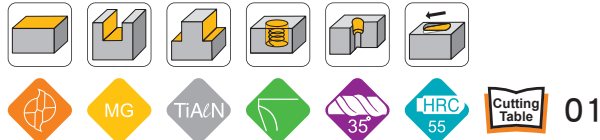
S220 MICRO GRAIN CARBIDE END MILLS- Square Type- Long Shank- 2F

## · 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	○

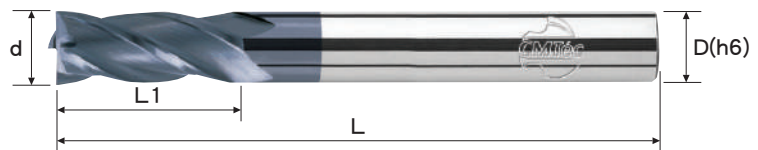


刃徑 d	刃長 L1	全長 L	柄徑 D	刃數 F	白刀訂購編號 Uncoated Order No.	鍍膜訂購編號 Coated Order No.
3.0	8	75	6	2	CELS20300	CELS20300A
4.0	10	75	6	2	CELS20400	CELS20400A
5.0	13	75	6	2	CELS20500	CELS20500A
6.0	15	75	6	2	CELS20600	CELS20600A
8.0	20	100	8	2	CELS20800	CELS20800A
10.0	25	100	10	2	CELS21000	CELS21000A
12.0	30	100	12	2	CELS21200	CELS21200A

# S220 鎢鋼平銑刀- 長柄型- 4刃

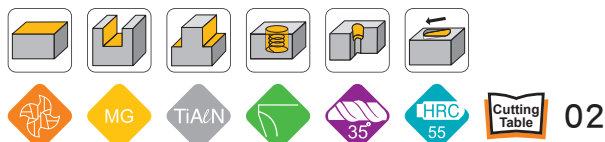
S220 MICRO GRAIN CARBIDE END MILLS- Square Type- Long Shank- 4F

## · 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	—

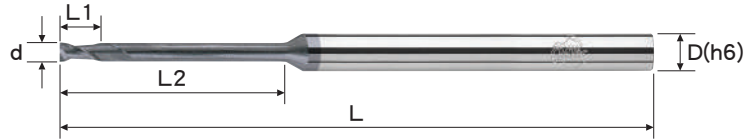


刃徑 d	刃長 L1	全長 L	柄徑 D	刃數 F	白刀訂購編號 Uncoated Order No.	鍍膜訂購編號 Coated Order No.
3.0	8	75	6	4	CELS40300	CELS40300A
4.0	10	75	6	4	CELS40400	CELS40400A
5.0	13	75	6	4	CELS40500	CELS40500A
6.0	15	75	6	4	CELS40600	CELS40600A
6.0	15	100	6	4	CELS40600100L	CELS40600100LA
8.0	20	100	8	4	CELS40800	CELS40800A
10.0	25	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
$\phi$	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	7.5	50	4	2	CEN20100075	CEN20100075A
1.0	1.5	11.5	50	4	2	CEN20100115	CEN20100115A
1.2	2.0	8.0	50	4	2	CEN20120080	CEN20120080A
1.2	2.0	12.0	50	4	2	CEN20120120	CEN20120120A
1.5	2.5	10.5	50	4	2	CEN20150105	CEN20150105A
1.5	2.5	18.5	50	4	2	CEN20150185	CEN20150185A
1.8	3.0	11.0	50	4	2	CEN20180110	CEN20180110A
1.8	3.0	19.0	50	4	2	CEN20180190	CEN20180190A
2.0	3.0	11.0	50	4	2	CEN20200110	CEN20200110A
2.0	3.0	19.0	50	4	2	CEN20200190	CEN20200190A
2.0	3.0	23.0	60	4	2	CEN20200230	CEN20200230A
2.5	3.5	15.5	50	4	2	CEN20250155	CEN20250155A
2.5	3.5	23.5	60	4	2	CEN20250235	CEN20250235A
3.0	4.5	16.5	60	6	2	CEN20300165	CEN20300165A
3.0	4.5	24.5	75	6	2	CEN20300245	CEN20300245A
4.0	6.0	26.0	75	6	2	CEN20400260	CEN20400260A
4.0	6.0	36.0	75	6	2	CEN20400360	CEN20400360A

S220 S220 Carbide End Mills

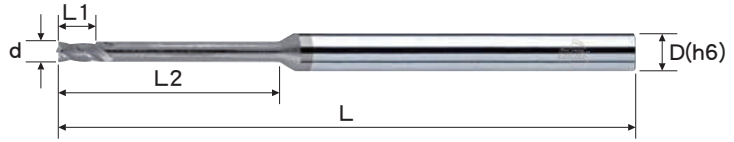
S220鎢鋼銑刀系列



# S220 鎢鋼平銑刀- 長頸型- 4刃

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

· CEN40000000A



刃徑 d	公差 Tolerance
Φ	0 ~ -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="checkbox"/>

02

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	7.5	50	4	4	CEN40100075	CEN40100075A
1.0	1.5	11.5	50	4	4	CEN40100115	CEN40100115A
1.2	2.0	8.0	50	4	4	CEN40120080	CEN40120080A
1.2	2.0	12.0	50	4	4	CEN40120120	CEN40120120A
1.5	2.5	10.5	50	4	4	CEN40150105	CEN40150105A
1.5	2.5	18.5	50	4	4	CEN40150185	CEN40150185A
1.8	3.0	11.0	50	4	4	CEN40180110	CEN40180110A
1.8	3.0	19.0	50	4	4	CEN40180190	CEN40180190A
2.0	3.0	11.0	50	4	4	CEN40200110	CEN40200110A
2.0	3.0	19.0	50	4	4	CEN40200190	CEN40200190A
2.0	3.0	23.0	60	4	4	CEN40200230	CEN40200230A
2.5	3.5	15.5	50	4	4	CEN40250155	CEN40250155A
2.5	3.5	23.5	60	4	4	CEN40250235	CEN40250235A
3.0	4.5	16.5	60	6	4	CEN40300165	CEN40300165A
3.0	4.5	24.5	75	6	4	CEN40300245	CEN40300245A
4.0	6.0	26.0	75	6	4	CEN40400260	CEN40400260A
4.0	6.0	36.0	75	6	4	CEN40400360	CEN40400360A

S220

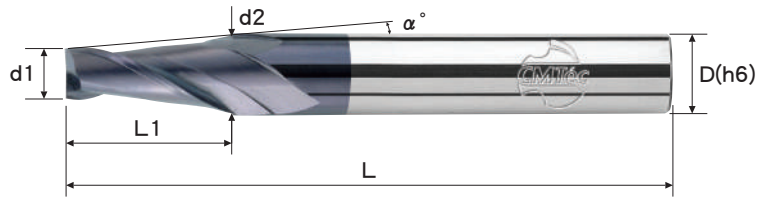
S220 Carbide End Mills

S220 鎢鋼銑刀系列

# S220 鎢鋼斜度銑刀- 標準型- 2刃

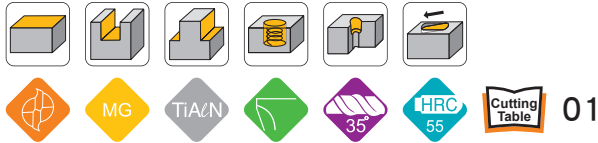
S220 MICRO GRAIN CARBIDE END MILLS- Taper- 2F

· 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	○

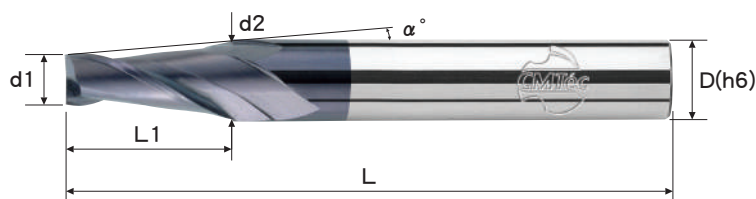


先端徑 d1	刃斜角 α°	刃長 L1	粗端徑 d2	全長 L	柄徑 D	刃數 F	白刀訂購編號 Uncoated Order No.	鍍膜訂購編號 Coated Order No.
1.0	0.5°	4	1.07	50	4	2	CETF2010005	CETF2010005A
1.0	1°	4	1.14	50	4	2	CETF2010010	CETF2010010A
1.0	1.5°	4	1.21	50	4	2	CETF2010015	CETF2010015A
1.0	2°	4	1.28	50	4	2	CETF2010020	CETF2010020A
1.0	2.5°	4	1.35	50	4	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

# S220 鎢鋼斜度銑刀-標準型-2刃

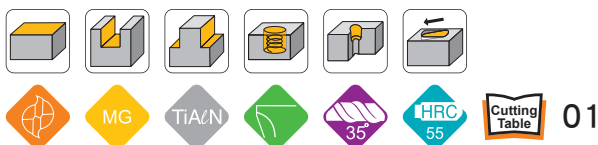
S220 MICRO GRAIN CARBIDE END MILLS- Taper- 2F

· 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	○

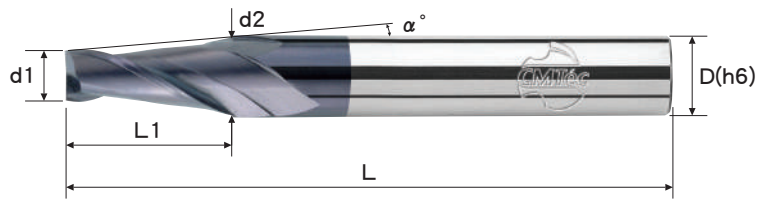


先端徑 d1	刃斜角 α°	刃長 L1	粗端徑 d2	全長 L	柄徑 D	刃數 F	白刀訂購編號 Uncoated Order No.	鍍膜訂購編號 Coated Order No.
2.5	10°	8	5.32	50	6	2	CETF20250100	CETF20250100A
3.0	0.5°	10	3.17	50	6	2	CETF2030005	CETF2030005A
3.0	1°	10	3.35	50	6	2	CETF2030010	CETF2030010A
3.0	1.5°	10	3.52	50	6	2	CETF2030015	CETF2030015A
3.0	2°	10	3.69	50	6	2	CETF2030020	CETF2030020A
3.0	2.5°	10	3.87	50	6	2	CETF2030025	CETF2030025A
3.0	3°	10	4.05	50	6	2	CETF2030030	CETF2030030A
3.0	5°	10	4.75	50	6	2	CETF2030050	CETF2030050A
3.0	7°	12	6.00	50	6	2	CETF2030070	CETF2030070A
3.0	10°	12	7.22	60	8	2	CETF20300100	CETF20300100A
3.0	15°	12	9.43	75	10	2	CETF20300150	CETF20300150A
4.0	0.5°	15	4.26	50	6	2	CETF2040005	CETF2040005A
4.0	1°	15	4.52	50	6	2	CETF2040010	CETF2040010A
4.0	1.5°	15	4.79	50	6	2	CETF2040015	CETF2040015A
4.0	2°	15	5.04	50	6	2	CETF2040020	CETF2040020A
4.0	2.5°	15	5.31	50	6	2	CETF2040025	CETF2040025A
4.0	3°	15	5.57	50	6	2	CETF2040030	CETF2040030A
4.0	5°	15	6.62	60	8	2	CETF2040050	CETF2040050A
4.0	7°	16	8.00	60	8	2	CETF2040070	CETF2040070A
4.0	10°	17	10.00	75	10	2	CETF20400100	CETF20400100A
4.0	15°	14.9	12.00	75	12	2	CETF20400150	CETF20400150A
5.0	0.5°	20	5.34	60	6	2	CETF2050005	CETF2050005A
5.0	1°	20	5.70	60	6	2	CETF2050010	CETF2050010A
5.0	1.5°	19.6	6.00	60	6	2	CETF2050015	CETF2050015A
5.0	2°	20	6.39	60	8	2	CETF2050020	CETF2050020A
5.0	2.5°	20	6.74	60	8	2	CETF2050025	CETF2050025A
5.0	3°	20	7.10	60	8	2	CETF2050030	CETF2050030A
5.0	5°	20	8.50	75	10	2	CETF2050050	CETF2050050A
5.0	7°	20	10.00	75	10	2	CETF2050070	CETF2050070A
5.0	10°	20	12.00	75	12	2	CETF20500100	CETF20500100A

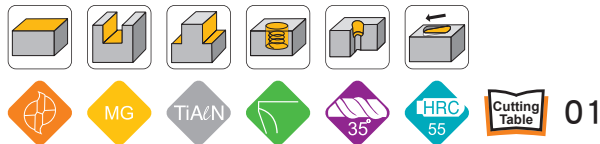
# S220 鎢鋼斜度銑刀- 標準型- 2刃

## 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	○



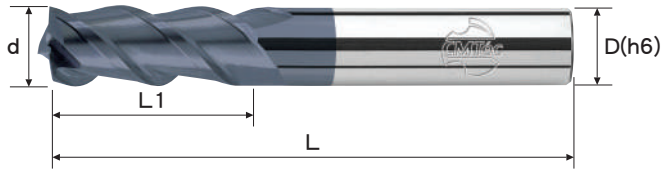
先端徑 d1	刃斜角 α °	刃長 L1	粗端徑 d2	全長 L	柄徑 D	刃數 F	白刀訂購編號 Uncoated Order No.	鍍膜訂購編號 Coated Order No.
6.0	0.5°	20	6.35	60	8	2	CETF2060005	CETF2060005A
6.0	1°	20	6.70	60	8	2	CETF2060010	CETF2060010A
6.0	1.5°	20	7.05	60	8	2	CETF2060015	CETF2060015A
6.0	2°	20	7.40	60	8	2	CETF2060020	CETF2060020A
6.0	2.5°	20	7.75	60	8	2	CETF2060025	CETF2060025A
6.0	3°	20	8.10	75	10	2	CETF2060030	CETF2060030A
6.0	5°	20	9.50	75	10	2	CETF2060050	CETF2060050A
6.0	7°	24	12.00	75	12	2	CETF2060070	CETF2060070A
6.0	10°	22	14.00	75	14	2	CETF20600100	CETF20600100A
8.0	0.5°	25	8.44	75	10	2	CETF2080005	CETF2080005A
8.0	1°	25	8.87	75	10	2	CETF2080010	CETF2080010A
8.0	1.5°	25	9.31	75	10	2	CETF2080015	CETF2080015A
8.0	2°	25	9.75	75	10	2	CETF2080020	CETF2080020A
8.0	3°	25	10.62	75	12	2	CETF2080030	CETF2080030A
8.0	5°	25	12.37	75	14	2	CETF2080050	CETF2080050A
8.0	7°	32	16.00	100	16	2	CETF2080070	CETF2080070A
8.0	10°	28	18.00	100	18	2	CETF20800100	CETF20800100A
10.0	0.5°	35	10.61	75	12	2	CETF2100005	CETF2100005A
10.0	1°	35	11.22	75	12	2	CETF2100010	CETF2100010A
10.0	1.5°	35	11.83	75	12	2	CETF2100015	CETF2100015A
10.0	2°	35	12.44	75	14	2	CETF2100020	CETF2100020A
10.0	3°	35	13.67	75	14	2	CETF2100030	CETF2100030A
10.0	5°	34.2	16.00	100	16	2	CETF2100050	CETF2100050A

S220 S220 Carbide End Mills S220 鎢鋼銑刀系列

# S220 錳鋼平銑刀- 高導標準型- 3刃

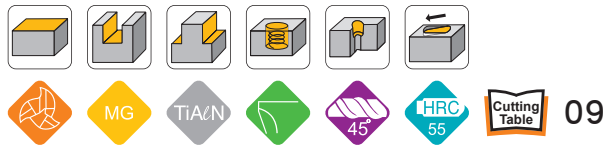
S220 MICRO GRAIN CARBIDE END MILLS- Square Type- High Helix- 3F

· CEH30000A



刃徑 d	公差 Tolerance
φ < 3	0 ~ -0.02
3 ≤ φ ≤ 10	-0.01 ~ -0.03
10 < φ	-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"/>



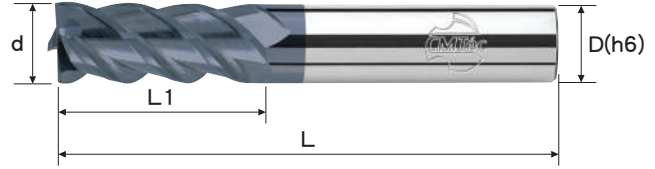
刃徑 d	刃長 L1	全長 L	柄徑 D	刃數 F	白刀訂購編號 Uncoated Order No.	鍍膜訂購編號 Coated Order No.
3.0	8	50	6	3	CEH30300	CEH30300A
4.0	10	50	6	3	CEH30400	CEH30400A
5.0	13	50	6	3	CEH30500	CEH30500A
6.0	15	50	6	3	CEH30600	CEH30600A
8.0	20	60	8	3	CEH30800	CEH30800A
10.0	25	75	10	3	CEH31000	CEH31000A
12.0	30	75	12	3	CEH31200	CEH31200A
16.0	35	100	16	3	CEH31600	CEH31600A
20.0	40	100	20	3	CEH32000	CEH32000A

# S220 鎢鋼平銑刀- 高導小柄/高導標準型- 4刃

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

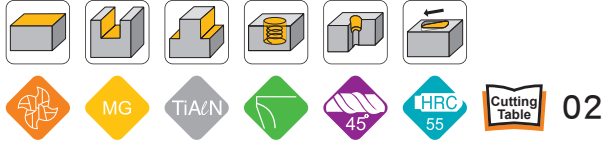
· CEHM40000A

· CEH40000A



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 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.
1.0	3	50	4	4	CEHM40100	CEHM40100A
2.0	5	50	4	4	CEHM40200	CEHM40200A
1.0	3	50	6	4	CEH40100	CEH40100A
2.0	5	50	6	4	CEH40200	CEH40200A
3.0	8	50	6	4	CEH40300	CEH40300A
4.0	10	50	6	4	CEH40400	CEH40400A
5.0	13	50	6	4	CEH40500	CEH40500A
6.0	15	50	6	4	CEH40600	CEH40600A
8.0	20	60	8	4	CEH40800	CEH40800A
10.0	25	75	10	4	CEH41000	CEH41000A
12.0	30	75	12	4	CEH41200	CEH41200A
16.0	35	100	16	4	CEH41600	CEH41600A
20.0	40	100	20	4	CEH42000	CEH42000A

S220 S220 Carbide End Mills

S220 鎢鋼銑刀系列

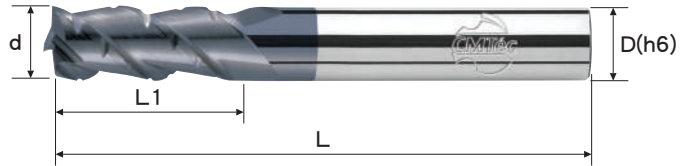




# S220 鎢鋼平銑刀- 高導粗精型- 3刃

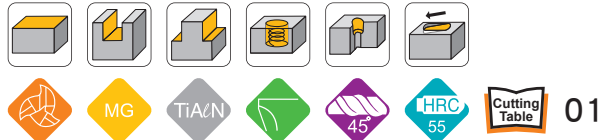
S220 MICRO GRAIN CARBIDE END MILLS- High Helix- Semi- Finishing- 3F

## · 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	◎

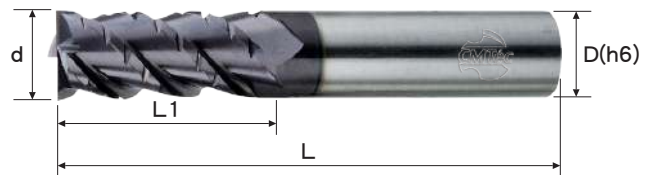


刃徑 d	刃長 L1	全長 L	柄徑 D	刃數 F	白刀訂購編號 Uncoated Order No.	鍍膜訂購編號 Coated Order No.
6.0	15	50	6	3	CER30600	CER30600A
8.0	20	60	8	3	CER30800	CER30800A
10.0	25	75	10	3	CER31000	CER31000A
12.0	30	75	12	3	CER31200	CER31200A
16.0	40	100	16	3	CER31600	CER31600A
20.0	45	100	20	3	CER32000	CER32000A

# S220 鎢鋼平銑刀- 高導粗精型- 4刃

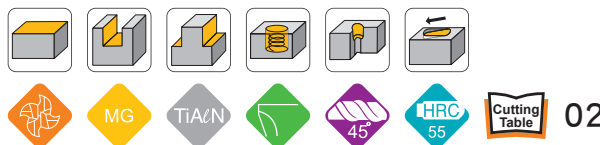
S220 MICRO GRAIN CARBIDE END MILLS- High Helix- Semi- Finishing- 4F

## · 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

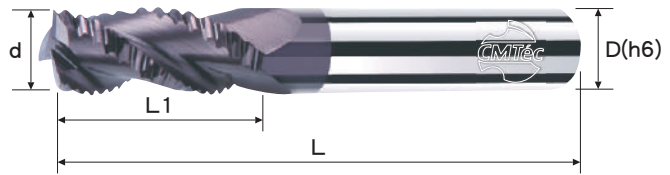
→ 切削條件表  
Cutting Condition P.534

→ 技術資料  
Technical Data P.622

# S220 鎢鋼粗銑平銑刀- 標準型- 3刃

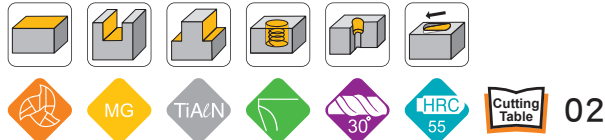
S220 MICRO GRAIN CARBIDE END MILLS- Roughing- 3F

· 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	◎

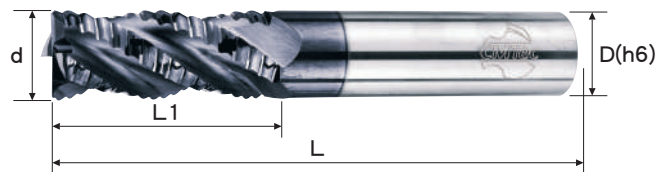


刃徑 d	刃長 L1	全長 L	柄徑 D	刃數 F	鍍膜訂購編號 Coated Order No.
6.0	15	50	6	3	CERR30600A
8.0	20	60	8	3	CERR30800A
10.0	25	75	10	3	CERR31000A
12.0	30	75	12	3	CERR31200A
16.0	40	100	16	3	CERR31600A
20.0	45	100	20	3	CERR32000A

# S220 鎢鋼粗銑平銑刀- 標準型- 4刃

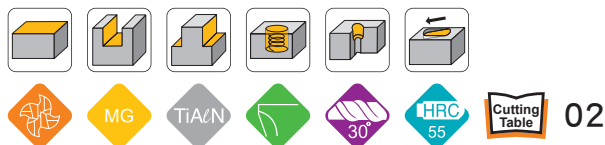
S220 MICRO GRAIN CARBIDE END MILLS- Roughing- 4F

· 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

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

S220

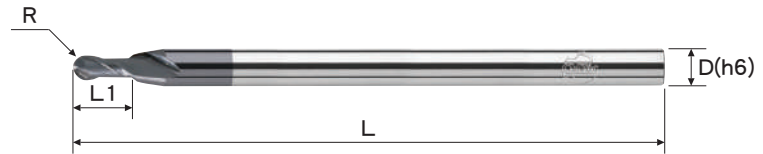
S220 Carbide End Mills

S220 鎢鋼銑刀系列

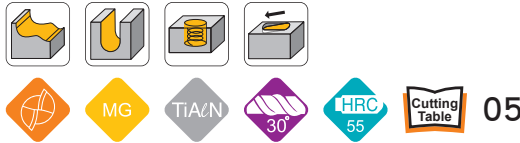
# S220 鎢鋼球型銑刀- 微柄/小柄型- 2刃

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

- CEBS20000A
- CEBM20000A



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.
0.1R	0.4	50	3	2	CEBS20010	CEBS20010A
0.15R	0.6	50	3	2	CEBS20015	CEBS20015A
0.2R	0.8	50	3	2	CEBS20020	CEBS20020A
0.25R	1.0	50	3	2	CEBS20025	CEBS20025A
0.3R	1.2	50	3	2	CEBS20030	CEBS20030A
0.35R	1.4	50	3	2	CEBS20035	CEBS20035A
0.4R	1.6	50	3	2	CEBS20040	CEBS20040A
0.45R	1.8	50	3	2	CEBS20045	CEBS20045A
0.5R	2.0	50	3	2	CEBS20050	CEBS20050A
0.6R	2.4	50	3	2	CEBS20060	CEBS20060A
0.7R	2.8	50	3	2	CEBS20070	CEBS20070A
0.75R	3.0	50	3	2	CEBS20075	CEBS20075A
0.8R	3.2	50	3	2	CEBS20080	CEBS20080A
0.9R	3.6	50	3	2	CEBS20090	CEBS20090A
1.0R	4.0	50	3	2	CEBS20100	CEBS20100A
1.5R	6.0	50	3	2	CEBS20150	CEBS20150A
0.1R	0.4	50	4	2	CEBM20010	CEBM20010A
0.15R	0.6	50	4	2	CEBM20015	CEBM20015A
0.2R	0.8	50	4	2	CEBM20020	CEBM20020A
0.25R	1.0	50	4	2	CEBM20025	CEBM20025A
0.3R	1.2	50	4	2	CEBM20030	CEBM20030A
0.35R	1.4	50	4	2	CEBM20035	CEBM20035A
0.4R	1.6	50	4	2	CEBM20040	CEBM20040A
0.45R	1.8	50	4	2	CEBM20045	CEBM20045A

→ 切削條件表 Cutting Condition P.537 → 技術資料 Technical Data P.622

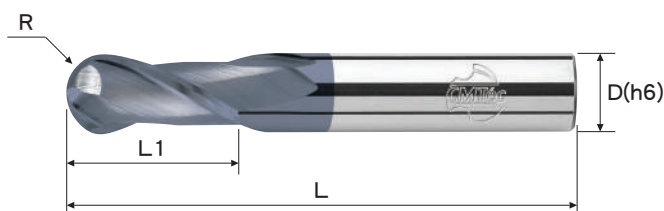
S220 S220 Carbide End Mills

S220鎢鋼銑刀系列

# S220 鎢鋼球型銑刀- 小柄/標準型- 2刃

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

- **CEBM20000A**
- **CEB20000A**



半徑 R	公差 Tolerance
R	±0.02

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

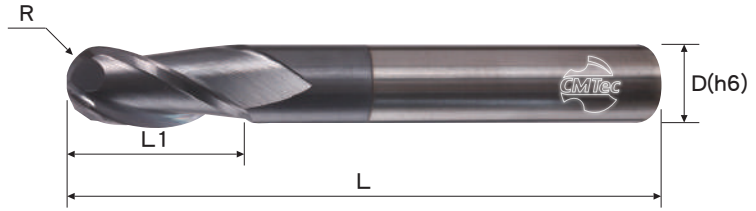


半徑 R	刃長 L1	全長 L	柄徑 D	刃數 F	白刀訂購編號 Uncoated Order No.	鍍膜訂購編號 Coated Order No.
0.5R	2	50	4	2	CEBM20050	CEBM20050A
0.6R	2.4	50	4	2	CEBM20060	CEBM20060A
0.7R	2.8	50	4	2	CEBM20070	CEBM20070A
0.75R	3	50	4	2	CEBM20075	CEBM20075A
1.0R	4	50	4	2	CEBM20100	CEBM20100A
1.25R	5	50	4	2	CEBM20125	CEBM20125A
1.5R	6	50	4	2	CEBM20150	CEBM20150A
1.75R	7	50	4	2	CEBM20175	CEBM20175A
2.0R	8	50	4	2	CEBM20200	CEBM20200A
0.5R	2	50	6	2	CEB20050	CEB20050A
0.6R	2.4	50	6	2	CEB20060	CEB20060A
0.7R	2.8	50	6	2	CEB20070	CEB20070A
0.75R	3	50	6	2	CEB20075	CEB20075A
1.0R	4	50	6	2	CEB20100	CEB20100A
1.25R	5	50	6	2	CEB20125	CEB20125A
1.5R	6	50	6	2	CEB20150	CEB20150A
2.0R	8	50	6	2	CEB20200	CEB20200A
2.5R	10	50	6	2	CEB20250	CEB20250A
3.0R	12	50	6	2	CEB20300	CEB20300A
3.5R	14	60	8	2	CEB20350	CEB20350A
4.0R	16	60	8	2	CEB20400	CEB20400A
4.0R	16	75	8	2	CEB20400075L	CEB20400075LA
5.0R	20	75	10	2	CEB20500	CEB20500A
6.0R	24	75	12	2	CEB20600	CEB20600A
8.0R	32	100	16	2	CEB20800	CEB20800A
10.0R	40	100	20	2	CEB21000	CEB21000A

# S220 鎢鋼球型銑刀-標準型-3刃

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

· **CEB30000A**



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.
1.0R	4	50	6	3	CEB30100	CEB30100A
1.5R	6	50	6	3	CEB30150	CEB30150A
2.0R	8	50	6	3	CEB30200	CEB30200A
2.5R	10	50	6	3	CEB30250	CEB30250A
3.0R	12	50	6	3	CEB30300	CEB30300A
3.5R	14	60	8	3	CEB30350	CEB30350A
4.0R	16	60	8	3	CEB30400	CEB30400A
5.0R	20	75	10	3	CEB30500	CEB30500A
6.0R	24	75	12	3	CEB30600	CEB30600A
8.0R	32	100	16	3	CEB30800	CEB30800A
10.0R	40	100	20	3	CEB31000	CEB31000A

S220

S220 Carbide End Mills

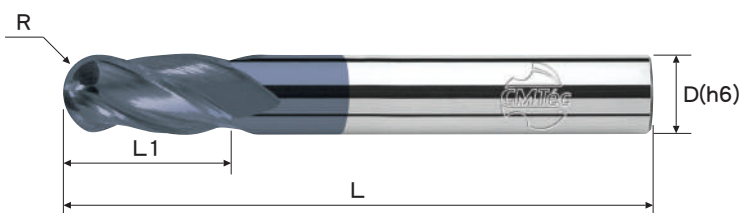
S220鎢鋼銑刀系列

# S220 鎢鋼球型銑刀- 小柄/標準型- 4刃

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

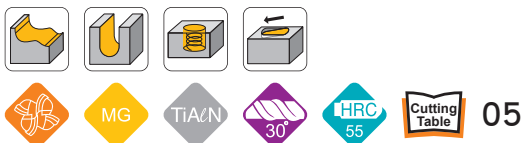
· **CEBM40000A**

· **CEB40000A**



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="checkbox"/>



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	CEBM40100	CEBM40100A
1.25R	5	50	4	4	CEBM40125	CEBM40125A
1.5R	6	50	4	4	CEBM40150	CEBM40150A
1.75R	7	50	4	4	CEBM40175	CEBM40175A
2.0R	8	50	4	4	CEBM40200	CEBM40200A
3.0R	12	50	6	4	CEB40300	CEB40300A
4.0R	16	60	8	4	CEB40400	CEB40400A
5.0R	20	75	10	4	CEB40500	CEB40500A
6.0R	24	75	12	4	CEB40600	CEB40600A
8.0R	32	100	16	4	CEB40800	CEB40800A

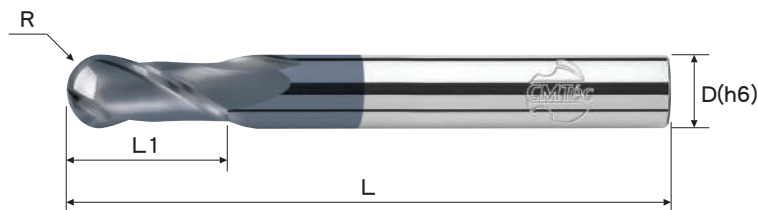
S220 S220 Carbide End Mills

S220 鎢鋼銑刀系列

# S220 鎢鋼球型銑刀- 小長柄/長柄型- 2刃

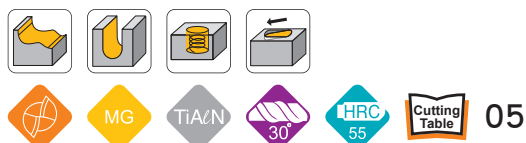
## S220 MICRO GRAIN CARBIDE END MILLS- Ball Nose & Long Shank- 2F

- CEBML20000A
- CEBL20000A



半徑 R	公差 Tolerance
R	±0.02

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



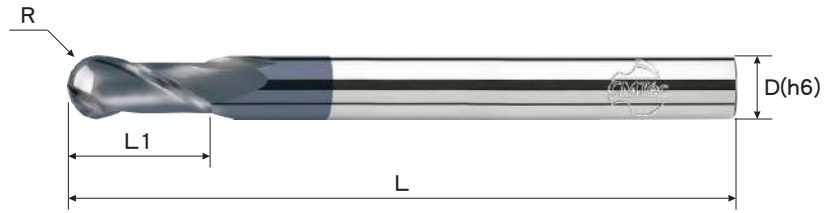
半徑 R	刃長 L1	全長 L	柄徑 D	刃數 F	白刀訂購編號 Uncoated Order No.	鍍膜訂購編號 Coated Order No.
0.5R	2	75	4	2	CEBML20050	CEBML20050A
0.75R	3	75	4	2	CEBML20075	CEBML20075A
1.0R	4	75	4	2	CEBML20100	CEBML20100A
1.25R	5	75	4	2	CEBML20125	CEBML20125A
1.5R	6	75	4	2	CEBML20150	CEBML20150A
1.75R	7	75	4	2	CEBML20175	CEBML20175A
2.0R	8	75	4	2	CEBML20200	CEBML20200A
1.0R	4	75	6	2	CEBL20100	CEBL20100A
1.5R	6	75	6	2	CEBL20150	CEBL20150A
2.0R	8	75	6	2	CEBL20200	CEBL20200A
2.5R	10	75	6	2	CEBL20250	CEBL20250A
3.0R	12	75	6	2	CEBL20300	CEBL20300A
4.0R	16	100	8	2	CEBL20400	CEBL20400A
5.0R	20	100	10	2	CEBL20500	CEBL20500A
6.0R	24	100	12	2	CEBL20600	CEBL20600A
8.0R	32	150	16	2	CEBL20800	CEBL20800A
10.0R	40	150	20	2	CEBL21000	CEBL21000A

→ 切削條件表 P.537 Cutting Condition  
→ 技術資料 P.622 Technical Data

# S220 鎢鋼球型銑刀- 小特長柄/特長柄型- 2刃

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

- CEBMLL20000A
- CEBLL20000A



半徑 R	公差 Tolerance
R	±0.02

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

Material and coating icons: MG (Micro Grain), TiAlN (Titanium Aluminum Nitride), 30° (Chipbreaker angle), HRC 55 (Rockwell hardness), and Cutting Table 05.

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	100	4	2	CEBMLL20100	CEBMLL20100A
1.5R	6	100	4	2	CEBMLL20150	CEBMLL20150A
2.0R	8	100	4	2	CEBMLL20200	CEBMLL20200A
1.0R	4	100	6	2	CEBLL20100	CEBLL20100A
1.5R	6	100	6	2	CEBLL20150	CEBLL20150A
2.0R	8	100	6	2	CEBLL20200	CEBLL20200A
2.5R	10	100	6	2	CEBLL20250	CEBLL20250A
3.0R	12	100	6	2	CEBLL20300	CEBLL20300A
4.0R	16	150	8	2	CEBLL20400	CEBLL20400A
5.0R	20	150	10	2	CEBLL20500	CEBLL20500A
6.0R	24	150	12	2	CEBLL20600	CEBLL20600A
8.0R	32	200	16	2	CEBLL20800	CEBLL20800A
10.0R	40	200	20	2	CEBLL21000	CEBLL21000A

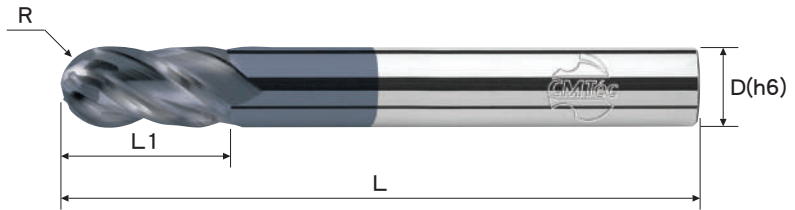
S220 S220 Carbide End Mills S220鎢鋼銑刀系列



# S220 鎢鋼球型銑刀- 小長柄/長柄型- 4刃

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

- **CEBML40000A**
- **CEBL40000A**



半徑 R	公差 Tolerance
R	±0.02

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



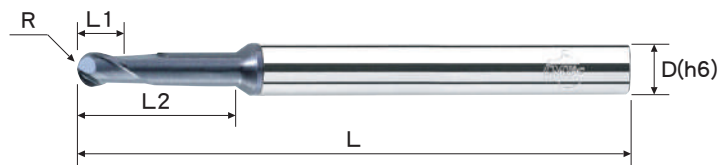
05

半徑 R	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	75	4	4	CEBML40100	CEBML40100A
1.25R	5	75	4	4	CEBML40125	CEBML40125A
1.5R	6	75	4	4	CEBML40150	CEBML40150A
1.75R	7	75	4	4	CEBML40175	CEBML40175A
2.0R	8	75	4	4	CEBML40200	CEBML40200A
3.0R	12	75	6	4	CEBL40300	CEBL40300A
4.0R	16	100	8	4	CEBL40400	CEBL40400A
5.0R	20	100	10	4	CEBL40500	CEBL40500A
6.0R	24	100	12	4	CEBL40600	CEBL40600A
8.0R	32	150	16	4	CEBL40800	CEBL40800A

# S220 鎢鋼球型銑刀-長頸型-2刃

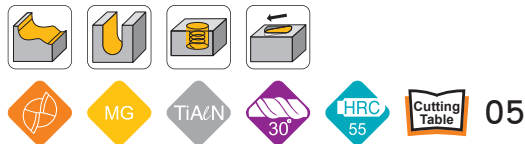
S220 MICRO GRAIN CARBIDE END MILLS- Ball Nose & Long Neck- 2F

· CEBN20000000A



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	1.5	7.5	50	4	2	CEBN20050075	CEBN20050075A
0.5R	1.5	11.5	50	4	2	CEBN20050115	CEBN20050115A
0.75R	2.5	10.5	50	4	2	CEBN20075105	CEBN20075105A
0.75R	2.5	18.5	50	4	2	CEBN20075185	CEBN20075185A
1.0R	3.0	11.0	50	4	2	CEBN20100110	CEBN20100110A
1.0R	3.0	19.0	50	4	2	CEBN20100190	CEBN20100190A
1.0R	3.0	23.0	60	4	2	CEBN20100230	CEBN20100230A
1.25R	3.5	15.5	50	4	2	CEBN20125155	CEBN20125155A
1.25R	3.5	23.5	60	4	2	CEBN20125235	CEBN20125235A
1.5R	4.5	16.5	60	6	2	CEBN20150165	CEBN20150165A
1.5R	4.5	24.5	75	6	2	CEBN20150245	CEBN20150245A
2.0R	6.0	26.0	75	6	2	CEBN20200260	CEBN20200260A
2.0R	6.0	36.0	75	6	2	CEBN20200360	CEBN20200360A

S220 S220 Carbide End Mills

S220 鎢鋼銑刀系列

# S220 鎢鋼球型銑刀- 斜頸型- 2刃

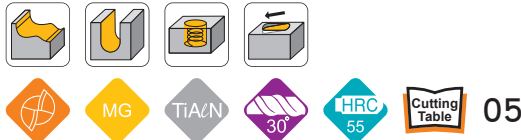
S220 MICRO GRAIN CARBIDE END MILLS- Taper Neck Ball Nose- 2F

· 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	○

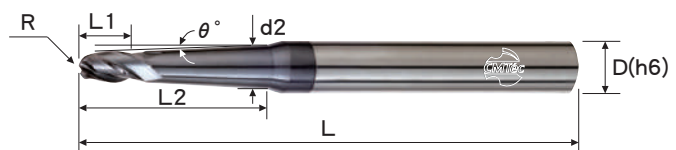


半徑 R	半夾角 $\theta^\circ$	刃長 L1	斜頸長 L2	粗端徑 d2	全長 L	柄徑 D	刃數 F	白刀訂購編號 Uncoated Order No.	鍍膜訂購編號 Coated Order No.
1.0R	3°	4	42	5.98	100	8	2	CENL20100	CENL20100A
1.5R	3°	6	47	7.30	100	8	2	CENL20150	CENL20150A
2.0R	3°	8	38	7.14	100	8	2	CENL20200	CENL20200A
2.5R	3°	10	28	6.89	100	8	2	CENL20250	CENL20250A
3.0R	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

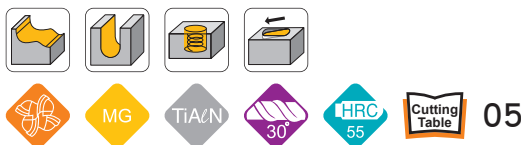
S220 MICRO GRAIN CARBIDE END MILLS- Taper Neck Ball Nose- 4F

· 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	—

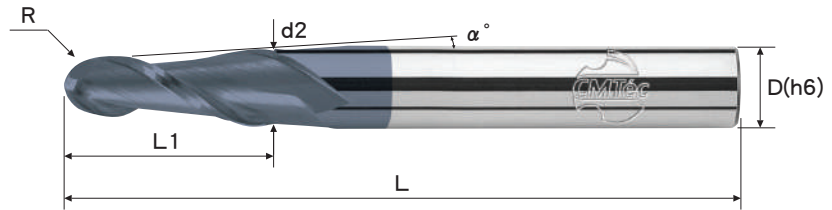


半徑 R	半夾角 $\theta^\circ$	刃長 L1	斜頸長 L2	粗端徑 d2	全長 L	柄徑 D	刃數 F	白刀訂購編號 Uncoated Order No.	鍍膜訂購編號 Coated Order No.
1.0R	3°	4	42	5.98	100	8	4	CENL40100	CENL40100A
1.5R	3°	6	47	7.30	100	8	4	CENL40150	CENL40150A
2.0R	3°	8	38	7.14	100	8	4	CENL40200	CENL40200A
2.5R	3°	10	28	6.89	100	8	4	CENL40250	CENL40250A
3.0R	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 鎢鋼斜度球型銑刀- 標準型- 2刃

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

· CETB2000000A



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	○



05

半徑 R	刃斜角 $\alpha^\circ$	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.
1.0R	1°	8	2.24	50	4	2	CETB2010010	CETB2010010A
1.0R	3°	8	2.74	50	4	2	CETB2010030	CETB2010030A
1.0R	5°	8	3.23	50	4	2	CETB2010050	CETB2010050A
1.25R	1°	10	2.81	50	4	2	CETB2012510	CETB2012510A
1.25R	3°	10	3.42	50	4	2	CETB2012530	CETB2012530A
1.25R	5°	10	4.04	50	6	2	CETB2012550	CETB2012550A
1.5R	1°	12	3.37	50	4	2	CETB2015010	CETB2015010A
1.5R	3°	12	4.10	50	6	2	CETB2015030	CETB2015030A
1.5R	5°	12	4.85	50	6	2	CETB2015050	CETB2015050A
2.0R	1°	16	4.49	60	6	2	CETB2020010	CETB2020010A
2.0R	3°	16	5.47	60	6	2	CETB2020030	CETB2020030A
2.0R	5°	16	6.46	60	8	2	CETB2020050	CETB2020050A
3.0R	1°	24	6.73	75	8	2	CETB2030010	CETB2030010A
3.0R	3°	24	8.20	75	10	2	CETB2030030	CETB2030030A
3.0R	5°	24	9.67	75	10	2	CETB2030050	CETB2030050A

S220

S220 Carbide End Mills

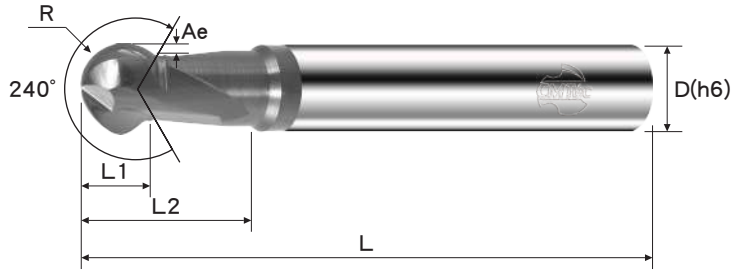
S220 鎢鋼銑刀系列

# S220 鎢鋼球殼型銑刀(240°)- 小柄/標準型- 2刃

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

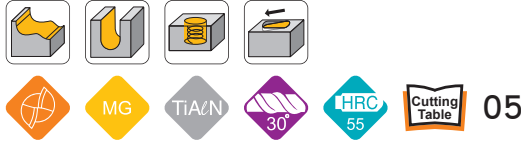
・ CEOM20000000A

・ CEO20000000A



半徑 R	公差 Tolerance
R	±0.02

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



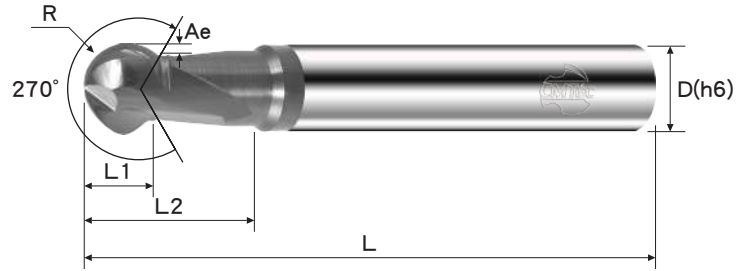
半徑 R	刃長 L1	有效長 L2	切刃寬 Ae	全長 L	柄徑 D	刃數 F	白刀訂購編號 Uncoated Order No.	鍍膜訂購編號 Coated Order No.
1.0R	1.50	4	0.13	60	4	2	CEOM20100040	CEOM20100040A
1.5R	2.25	6	0.20	60	4	2	CEOM20150060	CEOM20150060A
2.0R	3.00	8	0.26	60	4	2	CEOM20200080	CEOM20200080A
2.5R	3.75	10	0.33	60	6	2	CEO20250100	CEO20250100A
3.0R	4.50	12	0.40	60	6	2	CEO20300120	CEO20300120A
4.0R	6.00	16	0.53	60	8	2	CEO20400160	CEO20400160A
5.0R	7.50	20	0.66	75	10	2	CEO20500200	CEO20500200A
6.0R	9.00	24	0.80	75	12	2	CEO20600240	CEO20600240A

S220 S220 Carbide End Mills S220鎢鋼銑刀系列

# S220 鎢鋼球殼型銑刀(270°)- 小柄/標準型- 2刃

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

· CEO2000000000A



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	刃長 L1	有效長 L2	切刃寬 Ae	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	1.70	4	0.29	60	4	2	CEOM20100R0040	CEOM20100R0040A
1.5R	2.56	6	0.44	60	4	2	CEOM20150R0060	CEOM20150R0060A
2.0R	3.41	8	0.58	60	4	2	CEOM20200R0080	CEOM20200R0080A
2.5R	4.26	10	0.73	60	6	2	CEO20250R0100	CEO20250R0100A
3.0R	5.12	12	0.88	60	6	2	CEO20300R0120	CEO20300R0120A
4.0R	6.82	16	1.17	60	8	2	CEO20400R0160	CEO20400R0160A
5.0R	8.53	20	1.46	75	10	2	CEO20500R0200	CEO20500R0200A
6.0R	10.24	24	1.75	75	12	2	CEO20600R0240	CEO20600R0240A

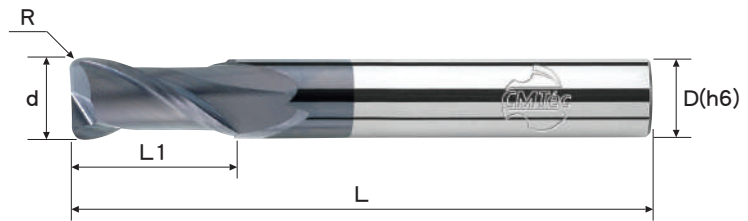


# S220 鎢鋼圓鼻銑刀- 小柄/標準型- 2刃

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

· CECRM2000000A

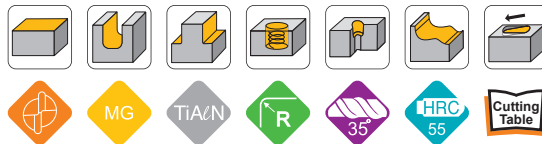
· CECR2000000A



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	$\pm 0.02$

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



NEW  
SIZE

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 P.538  
Cutting Condition

→ 技術資料 P.622  
Technical Data

S220

S220 Carbide End Mills

S220鎢鋼銑刀系列

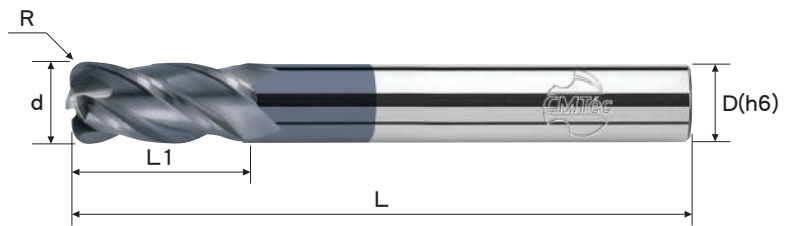


# S220 鎢鋼圓鼻銑刀- 小柄/標準型- 4刃

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

· CECRM4000000A

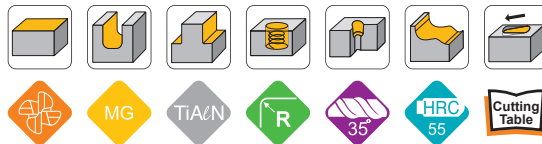
· CECR4000000A



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	$\pm 0.02$

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"/>



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	CECRM4025002	CECRM4025002A
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

S220

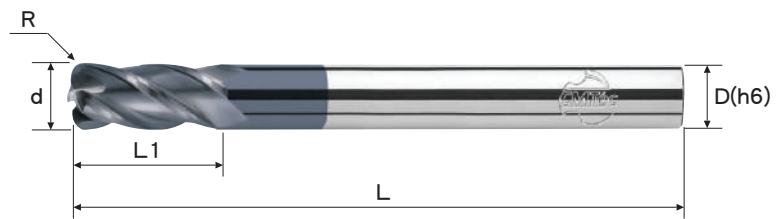
S220 Carbide End Mills

S220鎢鋼銑刀系列

# S220 鎢鋼圓鼻銑刀- 長柄型- 4刃

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

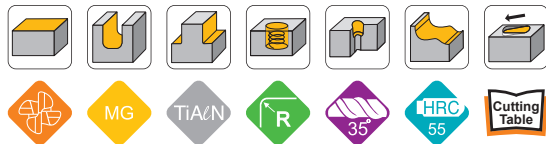
· CECL4000000A



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

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"/>



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.
3.0	0.5R	6	75	4	4	CECLM4030005	CECLM4030005A
3.0	1.0R	6	75	4	4	CECLM4030010	CECLM4030010A
4.0	0.5R	8	75	4	4	CECLM4040005	CECLM4040005A
4.0	1.0R	8	75	4	4	CECLM4040010	CECLM4040010A
3.0	0.5R	6	75	6	4	CECL4030005	CECL4030005A
3.0	1.0R	6	75	6	4	CECL4030010	CECL4030010A
4.0	0.5R	8	75	6	4	CECL4040005	CECL4040005A
4.0	1.0R	8	75	6	4	CECL4040010	CECL4040010A
5.0	0.5R	10	75	6	4	CECL4050005	CECL4050005A
5.0	1.0R	10	75	6	4	CECL4050010	CECL4050010A
6.0	0.5R	12	75	6	4	CECL4060005	CECL4060005A
6.0	1.0R	12	75	6	4	CECL4060010	CECL4060010A
8.0	0.2R	16	100	8	4	CECL4080002	CECL4080002A
8.0	0.5R	16	100	8	4	CECL4080005	CECL4080005A
8.0	1.0R	16	100	8	4	CECL4080010	CECL4080010A
8.0	1.5R	16	100	8	4	CECL4080015	CECL4080015A
10.0	0.5R	20	100	10	4	CECL4100005	CECL4100005A
10.0	1.0R	20	100	10	4	CECL4100010	CECL4100010A
10.0	1.5R	20	100	10	4	CECL4100015	CECL4100015A
10.0	2.0R	20	100	10	4	CECL4100020	CECL4100020A
12.0	0.5R	24	100	12	4	CECL4120005	CECL4120005A
12.0	1.0R	24	100	12	4	CECL4120010	CECL4120010A
12.0	1.5R	24	100	12	4	CECL4120015	CECL4120015A
12.0	2.0R	24	100	12	4	CECL4120020	CECL4120020A

S220

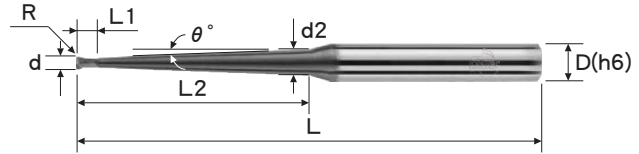
S220 Carbide End Mills

S220鎢鋼銑刀系列

# S220 鎢鋼圓鼻銑刀- 斜頸型- 2刃

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

· CECNL2000000000A



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	半夾角 $\theta^\circ$	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.
2.0	0.2R	1.5°	3.0	25	3.15	75	6	2	CECNL2020002250	CECNL2020002250A
2.0	0.2R	1.5°	3.0	40	3.91	75	6	2	CECNL2020002400	CECNL2020002400A
2.0	0.5R	1.5°	3.0	25	3.15	75	6	2	CECNL2020005250	CECNL2020005250A
2.0	0.5R	1.5°	3.0	40	3.91	75	6	2	CECNL2020005400	CECNL2020005400A
2.0	0.5R	1.5°	3.0	50	4.46	100	6	2	CECNL2020005500	CECNL2020005500A
2.5	0.2R	1.5°	3.5	25	3.63	75	6	2	CECNL2025002250	CECNL2025002250A
2.5	0.2R	1.5°	3.5	40	4.41	75	6	2	CECNL2025002400	CECNL2025002400A
2.5	0.5R	1.5°	3.5	25	3.63	75	6	2	CECNL2025005250	CECNL2025005250A
2.5	0.5R	1.5°	3.5	40	4.41	75	6	2	CECNL2025005400	CECNL2025005400A
2.5	0.5R	1.5°	3.5	50	5.12	100	6	2	CECNL2025005500	CECNL2025005500A
3.0	0.5R	1.5°	4.5	25	4.07	75	6	2	CECNL2030005250	CECNL2030005250A
3.0	1.0R	1.5°	4.5	25	4.07	75	6	2	CECNL2030010250	CECNL2030010250A
3.0	1.0R	1.5°	4.5	40	4.86	75	6	2	CECNL2030010400	CECNL2030010400A
3.0	1.0R	1.5°	4.5	50	5.38	100	6	2	CECNL2030010500	CECNL2030010500A
4.0	0.5R	1.5°	6.0	25	5.00	100	8	2	CECNL2040005250	CECNL2040005250A
4.0	0.5R	1.5°	6.0	50	6.30	100	8	2	CECNL2040005500	CECNL2040005500A
4.0	1.0R	1.5°	6.0	25	5.00	100	8	2	CECNL2040010250	CECNL2040010250A
4.0	1.0R	1.5°	6.0	50	6.30	100	8	2	CECNL2040010500	CECNL2040010500A
5.0	1.0R	1.5°	7.0	35	6.47	100	10	2	CECNL2050010350	CECNL2050010350A
5.0	1.0R	1.5°	7.0	50	7.25	100	10	2	CECNL2050010500	CECNL2050010500A
6.0	1.0R	1.5°	8.0	35	7.41	100	10	2	CECNL2060010350	CECNL2060010350A
6.0	1.0R	1.5°	8.0	50	8.20	100	10	2	CECNL2060010500	CECNL2060010500A

S220

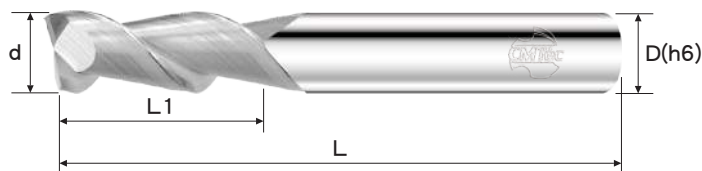
S220 Carbide End Mills

S220 鎢鋼銑刀系列

# S220 鎢鋼鋁用平銑刀- 高導微柄/小柄/標準型- 2刃

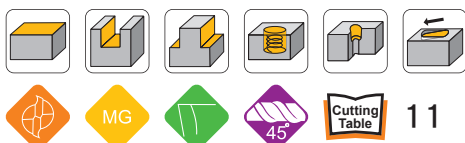
S220 MICRO GRAIN CARBIDE END MILLS- High Helix For Aluminum- 2F

- CEXS20000
- CEXM20000
- CEX20000



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	⊙



11

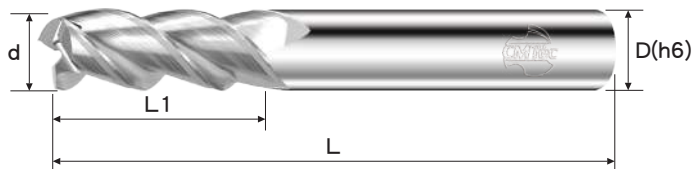
刃徑 d	刃長 L1	全長 L	柄徑 D	刃數 F	白刀訂購編號 Uncoated Order No.
1.0	3	50	3	2	CEXS20100
1.5	4.5	50	3	2	CEXS20150
2.0	6	50	3	2	CEXS20200
3.0	9	50	3	2	CEXS20300
1.0	3	50	4	2	CEXM20100
1.5	4.5	50	4	2	CEXM20150
2.0	6	50	4	2	CEXM20200
3.0	9	50	6	2	CEX20300
4.0	12	50	6	2	CEX20400
5.0	15	50	6	2	CEX20500
6.0	18	50	6	2	CEX20600
8.0	20	60	8	2	CEX20800
10.0	30	75	10	2	CEX21000
12.0	30	75	12	2	CEX21200
16.0	40	100	16	2	CEX21600
20.0	45	100	20	2	CEX22000

S220  
S220 Carbide End Mills  
S220 鎢鋼銑刀系列

# S220 鎢鋼鋁用平銑刀- 高導微柄/小柄/標準型- 3刃

S220 MICRO GRAIN CARBIDE END MILLS- High Helix For Aluminum- 3F

- CEXS30000
- CEXM30000
- CEX30000



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	○



11



刃徑 d	刃長 L1	全長 L	柄徑 D	刃數 F	白刀訂購編號 Uncoated Order No.
3.0	9	50	3	3	CEXS30300
1.0	3	50	4	3	CEXM30100
1.5	4.5	50	4	3	CEXM30150
2.0	6	50	4	3	CEXM30200
3.0	9	50	4	3	CEXM30300
4.0	12	50	4	3	CEXM30400
1.0	3	50	6	3	CEX30100
1.5	4.5	50	6	3	CEX30150
2.0	6	50	6	3	CEX30200
3.0	9	50	6	3	CEX30300
4.0	12	50	6	3	CEX30400
5.0	15	50	6	3	CEX30500
6.0	18	50	6	3	CEX30600
8.0	20	60	8	3	CEX30800
10.0	30	75	10	3	CEX31000
12.0	30	75	12	3	CEX31200
16.0	40	100	16	3	CEX31600
20.0	45	100	20	3	CEX32000

→ 切削條件表 P.540 Cutting Condition      → 技術資料 P.622 Technical Data

S220 S220 Carbide End Mills

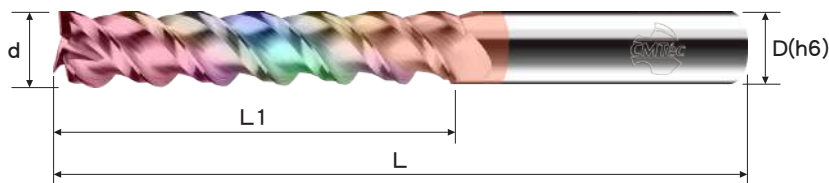
S220鎢鋼銑刀系列



# S220 鎢鋼鋁用平銑刀- 強力長刃型- 3刃

MICRO GRAIN CARBIDE END MILLS- Square Type & Long Flute - Power Cutting- Aluminum- 3F

## · CEXHF30000R



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	⊙



NEW SIZE

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	15	60	4	3	CEXHFM30300	CEXHFM30300R
4.0	20	60	4	3	CEXHFM30400	CEXHFM30400R
2.0	10	60	6	3	CEXHF30200	CEXHF30200R
3.0	15	60	6	3	CEXHF30300	CEXHF30300R
4.0	20	60	6	3	CEXHF30400	CEXHF30400R
5.0	25	60	6	3	CEXHF30500	CEXHF30500R
6.0	30	75	6	3	CEXHF30600	CEXHF30600R
8.0	45	100	8	3	CEXHF30800	CEXHF30800R
10.0	55	100	10	3	CEXHF31000	CEXHF31000R
12.0	55	100	12	3	CEXHF31200	CEXHF31200R
14.0	75	150	14	3	CEXHF31400	CEXHF31400R
16.0	75	150	16	3	CEXHF31600	CEXHF31600R
18.0	90	150	18	3	CEXHF31800	CEXHF31800R
20.0	90	150	20	3	CEXHF32000	CEXHF32000R

S220 S220 Carbide End Mills

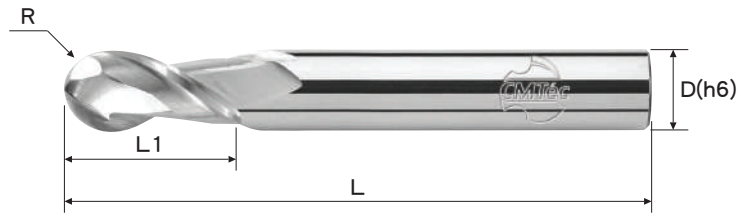
S220鎢鋼銑刀系列

# S220 鎢鋼鋁用球型銑刀- 小柄/標準型- 2刃

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

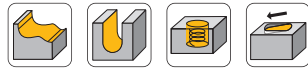
· **CEXBM20000**

· **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	◎

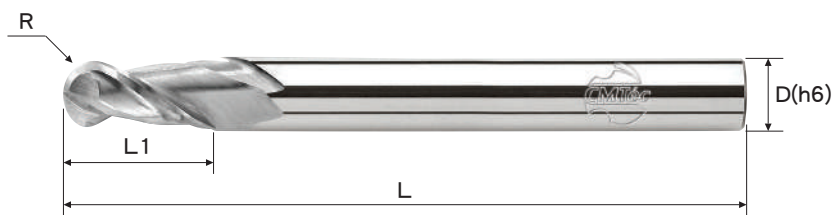


半徑 R	刃長 L1	全長 L	柄徑 D	刃數 F	白刀訂購編號 Uncoated Order No.
1.0R	4	50	4	2	CEXBM20100
2.0R	8	50	4	2	CEXBM20200
1.0R	4	50	6	2	CEXB20100
1.5R	6	50	6	2	CEXB20150
2.0R	8	50	6	2	CEXB20200
2.5R	10	50	6	2	CEXB20250
3.0R	12	50	6	2	CEXB20300
4.0R	16	60	8	2	CEXB20400
5.0R	20	75	10	2	CEXB20500
6.0R	24	75	12	2	CEXB20600
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- Ball Nose & Long Shank For Aluminum- 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	◎



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

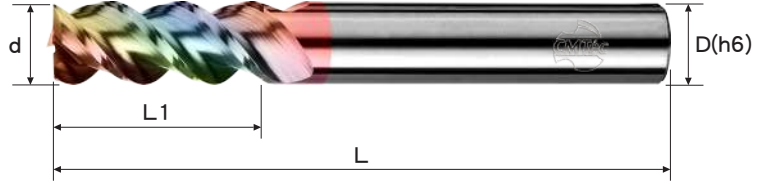




# S220 鎢鋼鋁用平銑刀- 強力型- 3刃

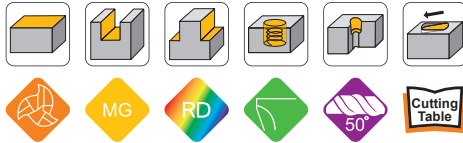
MICRO GRAIN CARBIDE END MILLS- Square Type- Power Cutting- Aluminum- 3F

## · CEXSH30000R



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	◎



NEW  
SIZE



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	6	50	4	3	CEXSHM30200	CEXSHM30200R
3.0	9	50	4	3	CEXSHM30300	CEXSHM30300R
4.0	12	50	4	3	CEXSHM30400	CEXSHM30400R
2.0	6	50	6	3	CEXSH30200	CEXSH30200R
3.0	9	50	6	3	CEXSH30300	CEXSH30300R
4.0	12	50	6	3	CEXSH30400	CEXSH30400R
5.0	15	50	6	3	CEXSH30500	CEXSH30500R
6.0	18	50	6	3	CEXSH30600	CEXSH30600R
8.0	24	60	8	3	CEXSH30800	CEXSH30800R
8.0	35	75	8	3	CEXSH30800350C	CEXSH30800350CR
10.0	30	75	10	3	CEXSH31000	CEXSH31000R
12.0	35	75	12	3	CEXSH31200	CEXSH31200R
16.0	40	100	16	3	CEXSH31600	CEXSH31600R
20.0	45	100	20	3	CEXSH32000	CEXSH32000R

# S220 鎢鋼鋁用圓鼻銑刀- 強力型- 3刃

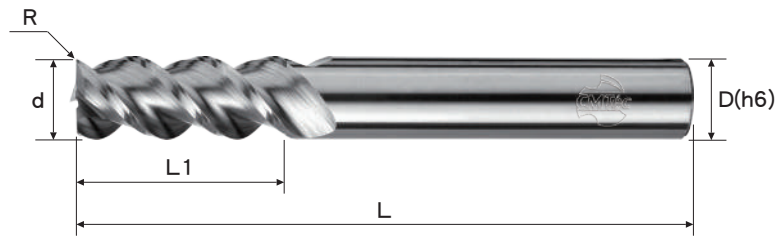
S220 MICRO GRAIN CARBIDE END MILLS- Corner Radius- Square Type- Power Cutting-Aluminum- 3F

- 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	$\pm 0.02$

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

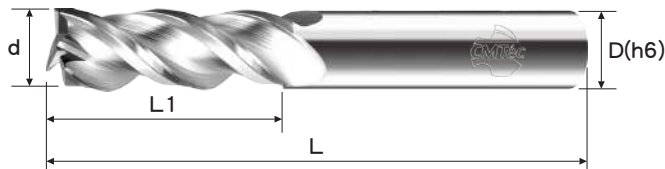


刃徑 d	R角 R	刃長 L1	全長 L	柄徑 D	刃數 F	白刀訂購編號 Uncoated Order No.
2.0	0.2R	6	50	4	3	CEXCRSHM3020002
2.0	0.3R	6	50	4	3	CEXCRSHM3020003
3.0	0.5R	9	50	4	3	CEXCRSHM3030005
3.0	1.0R	9	50	4	3	CEXCRSHM3030010
4.0	0.5R	12	50	4	3	CEXCRSHM3040005
4.0	1.0R	12	50	4	3	CEXCRSHM3040010
2.0	0.2R	6	50	6	3	CEXCRSH3020002
2.0	0.3R	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

# S220 鎢鋼鋁用平銑刀- 高效型- 3刃

S220 MICRO GRAIN CARBIDE END MILLS- High Performance For Aluminum- 3F

## · CEXV30000



刃徑 d	公差 Tolerance
Φ < 3	0 ~ -0.02
3 ≤ Φ ≤ 10	-0.01 ~ -0.03
10 < Φ	-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.
3.0	9	50	6	3	CEXV30300
4.0	12	50	6	3	CEXV30400
5.0	15	50	6	3	CEXV30500
6.0	18	50	6	3	CEXV30600
8.0	24	60	8	3	CEXV30800
10.0	30	75	10	3	CEXV31000
12.0	35	75	12	3	CEXV31200
16.0	40	100	16	3	CEXV31600

S220 S220 Carbide End Mills

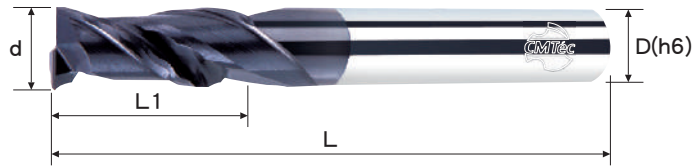
S220 鎢鋼銑刀系列



# S220 鎢鋼平銑刀- 波浪型- 2/3/4刃

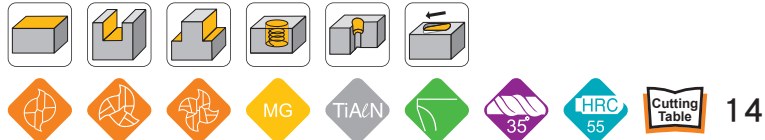
## S220 MICRO GRAIN CARBIDE END MILLS- Sinus Edge (Wave) Type- 2/3/4F

### · 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

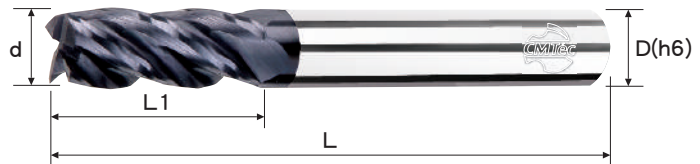
### · CERS30000A



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

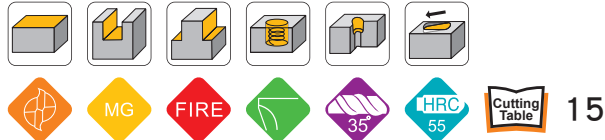
S220 MICRO GRAIN CARBIDE END MILLS- Square Type- Power Cutting- 2F

- 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	○

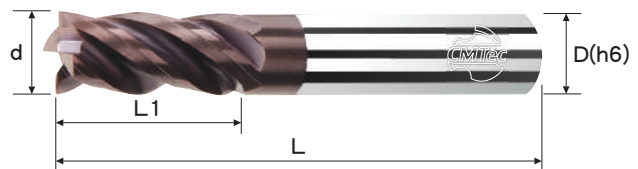


刃徑 d	刃長 L1	全長 L	柄徑 D	刃數 F	白刀訂購編號 Uncoated Order No.	鍍膜訂購編號 Coated Order No.
2.0	5	50	4	2	CESHM20200	CESHM20200F
3.0	8	50	4	2	CESHM20300	CESHM20300F
4.0	10	50	4	2	CESHM20400	CESHM20400F
3.0	8	50	6	2	CESH20300	CESH20300F
4.0	10	50	6	2	CESH20400	CESH20400F
5.0	13	50	6	2	CESH20500	CESH20500F
6.0	15	50	6	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

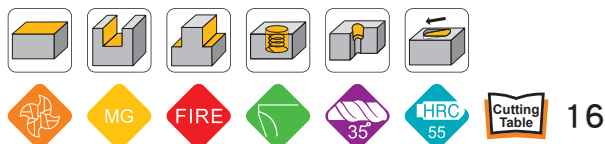
S220 MICRO GRAIN CARBIDE END MILLS- Square Type- Power Cutting- 4F

- 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

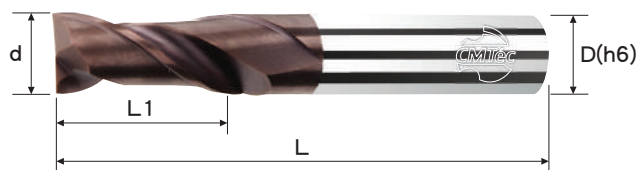
S220 Carbide End Mills

S220 鎢鋼銑刀系列

# S220 鎢鋼平銑刀- 強力高導小柄/標準型- 2刃

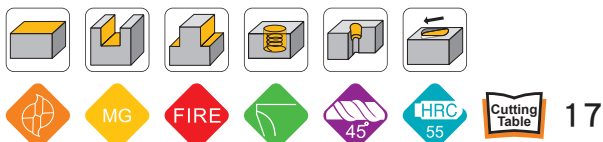
S220 MICRO GRAIN CARBIDE END MILLS- Square Type- High Helix- Power Cutting- 2F

- **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	○

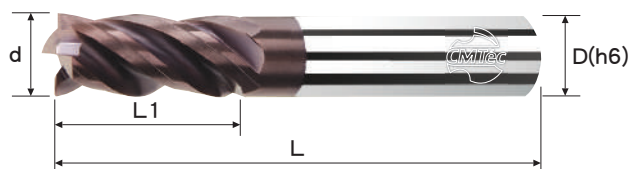


刃徑 d	刃長 L1	全長 L	柄徑 D	刃數 F	白刀訂購編號 Uncoated Order No.	鍍膜訂購編號 Coated Order No.
2.0	5	50	4	2	CEHSM20200	CEHSM20200F
3.0	8	50	4	2	CEHSM20300	CEHSM20300F
4.0	10	50	4	2	CEHSM20400	CEHSM20400F
3.0	8	50	6	2	CEHS20300	CEHS20300F
4.0	10	50	6	2	CEHS20400	CEHS20400F
5.0	13	50	6	2	CEHS20500	CEHS20500F
6.0	15	50	6	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

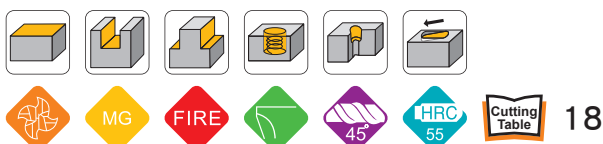
S220 MICRO GRAIN CARBIDE END MILLS- Square Type- High Helix- Power Cutting- 4F

- **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

S220 Carbide End Mills

S220 鎢鋼銑刀系列

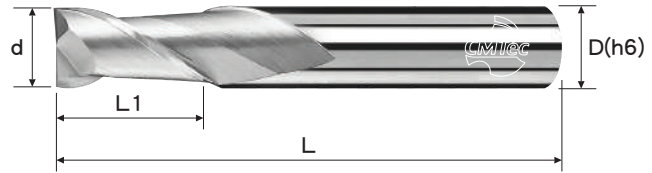


# S220 鎢鋼銅鋁用平銑刀- 小柄/標準型- 2刃

S220 CARBIDE END MILLS- Square Type For Copper, Aluminum- 2F

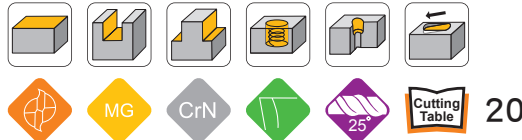
· CЕССM20000-00A

· CЕСС20000-00A



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	CЕССM20050-25	CЕССM20050-25A
1.0	2	50	4	2	CЕССM20100-25	CЕССM20100-25A
1.5	3	50	4	2	CЕССM20150-25	CЕССM20150-25A
2.0	4	50	4	2	CЕССM20200-25	CЕССM20200-25A
2.5	5	50	4	2	CЕССM20250-25	CЕССM20250-25A
3.0	6	50	6	2	CЕСС20300-25	CЕСС20300-25A
4.0	8	50	6	2	CЕСС20400-25	CЕСС20400-25A
5.0	10	60	6	2	CЕСС20500-25	CЕСС20500-25A
6.0	12	60	6	2	CЕСС20600-25	CЕСС20600-25A
8.0	16	60	8	2	CЕСС20800-25	CЕСС20800-25A
10.0	20	75	10	2	CЕСС21000-25	CЕСС21000-25A
12.0	24	75	12	2	CЕСС21200-25	CЕСС21200-25A

· CЕССM20000-00A

· CЕСС20000-00A

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

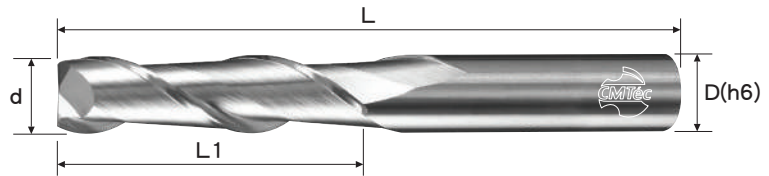


刃徑 d	刃長 L1	全長 L	柄徑 D	刃數 F	白刀訂購編號 Uncoated Order No.	鍍膜訂購編號 Coated Order No.
0.5	1	50	4	2	CЕССM20050-45	CЕССM20050-45A
1.0	2	50	4	2	CЕССM20100-45	CЕССM20100-45A
1.5	3	50	4	2	CЕССM20150-45	CЕССM20150-45A
2.0	4	50	4	2	CЕССM20200-45	CЕССM20200-45A
2.5	5	50	4	2	CЕССM20250-45	CЕССM20250-45A
3.0	6	50	6	2	CЕСС20300-45	CЕСС20300-45A
4.0	8	50	6	2	CЕСС20400-45	CЕСС20400-45A
5.0	10	60	6	2	CЕСС20500-45	CЕСС20500-45A
6.0	12	60	6	2	CЕСС20600-45	CЕСС20600-45A
8.0	16	60	8	2	CЕСС20800-45	CЕСС20800-45A
10.0	20	75	10	2	CЕСС21000-45	CЕСС21000-45A
12.0	24	75	12	2	CЕСС21200-45	CЕСС21200-45A

# S220 鎢鋼銅鋁用平銑刀-長刃型-2刃

S220 CARBIDE END MILLS- Square & Long Flute For Copper, Aluminum- 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

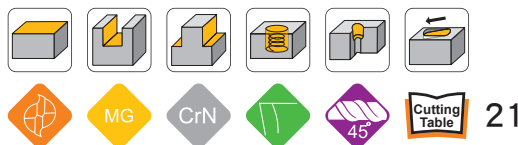
超精銑 Bright Finishing	—
精銑 Finishing	◎
中銑 Semi Finishing	◎
粗銑 Roughing	○



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	—

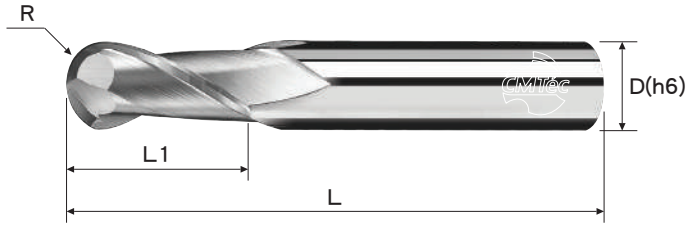


刃徑 d	刃長 L1	全長 L	柄徑 D	刃數 F	白刀訂購編號 Uncoated Order No.	鍍膜訂購編號 Coated Order No.
3.0	12	60	6	2	CELFC20300-45	CELFC20300-45A
4.0	16	60	6	2	CELFC20400-45	CELFC20400-45A
5.0	20	75	6	2	CELFC20500-45	CELFC20500-45A
6.0	24	75	6	2	CELFC20600-45	CELFC20600-45A
8.0	32	90	8	2	CELFC20800-45	CELFC20800-45A
10.0	40	100	10	2	CELFC21000-45	CELFC21000-45A
12.0	48	110	12	2	CELFC21200-45	CELFC21200-45A

# S220 鎢鋼銅鋁用球型銑刀- 小柄/標準型- 2刃

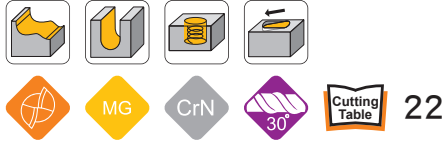
S220 CARBIDE END MILLS- Ball Nose For Copper, Aluminum- 2F

- CEBCM20000A
- CEBC20000A



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	○



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	50	4	2	CEBCM20050	CEBCM20050A
0.75R	3	50	4	2	CEBCM20075	CEBCM20075A
1.0R	4	50	6	2	CEBC20100	CEBC20100A
1.25R	5	50	6	2	CEBC20125	CEBC20125A
1.5R	6	50	6	2	CEBC20150	CEBC20150A
2.0R	8	50	6	2	CEBC20200	CEBC20200A
2.5R	10	50	6	2	CEBC20250	CEBC20250A
3.0R	12	50	6	2	CEBC20300	CEBC20300A
4.0R	16	60	8	2	CEBC20400	CEBC20400A
5.0R	20	75	10	2	CEBC20500	CEBC20500A
6.0R	24	75	12	2	CEBC20600	CEBC20600A

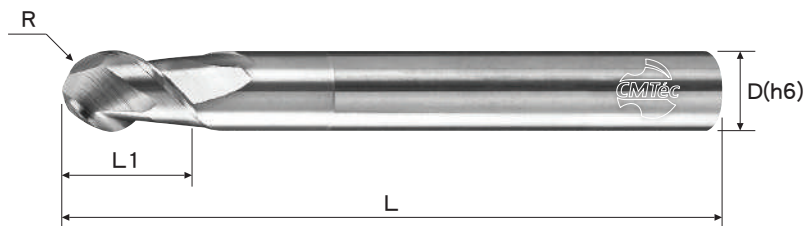
S220 S220 Carbide End Mills

S220 鎢鋼銑刀系列

# S220 鎢鋼銅鋁用球型銑刀- 長頸型- 2刃

S220 CARBIDE END MILLS- Long Neck Ball Nose For Copper, Aluminum- 2F

- CEBNCM20000A
- CEBNC20000A



半徑 R	公差 Tolerance
R	±0.02

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

23

半徑 R	刃長 L1	有效長 L2	頸徑 Nd	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	1.5	4	0.95	50	4	2	CEBNCM20050040	CEBNCM20050040A
		6					CEBNCM20050060	CEBNCM20050060A
1.0R	3.0	8	1.94	50	4	2	CEBNCM20100080	CEBNCM20100080A
		14					CEBNCM20100140	CEBNCM20100140A
1.5R	4.5	15	2.85	60	6	2	CEBNC20150150	CEBNC20150150A
		25					CEBNC20150250	CEBNC20150250A
2.0R	6.0	20	3.80	60	6	2	CEBNC20200200	CEBNC20200200A
		30		75			CEBNC20200300	CEBNC20200300A
3.0R	9.0	20	5.80	60	6	2	CEBNC20300200	CEBNC20300200A
		30		90			8	CEBNC20300300
4.0R	12.0	20	7.80	75	8	2	CEBNC20400200	CEBNC20400200A
		40		100			10	CEBNC20400400
5.0R	15.0	30	9.80	90	10	2	CEBNC20500300	CEBNC20500300A
		50		120			12	CEBNC20500500
6.0R	18.0	40	11.80	110	12	2	CEBNC20600400	CEBNC20600400A
		60		130			16	CEBNC20600600

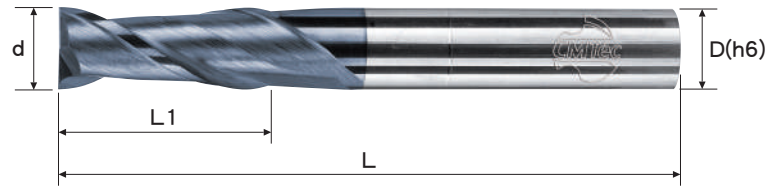
S220 S220 Carbide End Mills S220鎢鋼銑刀系列

# S220 鎢鋼平銑刀- 石墨專用型- 2刃

S220 CARBIDE END MILLS- Square Type- 2F For Graphite

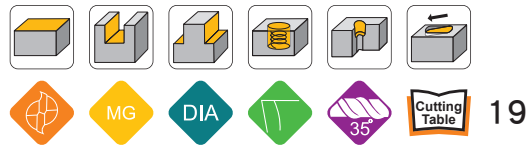
· CESGM20000A

· CESG20000A



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	2	CESGM20100A
2.0	6	50	4	2	CESGM20200A
3.0	8	50	4	2	CESGM20300A
4.0	10	50	4	2	CESGM20400A
3.0	8	50	6	2	CESG20300A
4.0	10	50	6	2	CESG20400A
5.0	13	50	6	2	CESG20500A
6.0	15	50	6	2	CESG20600A
8.0	20	60	8	2	CESG20800A
10.0	25	75	10	2	CESG21000A
12.0	30	75	12	2	CESG21200A

S220

S220 Carbide End Mills

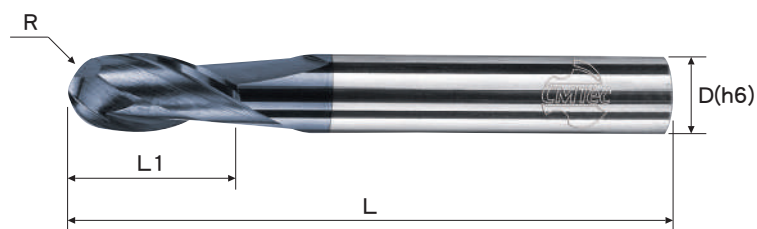
S220鎢鋼銑刀系列



# S220 鎢鋼球型銑刀- 石墨專用型- 2刃

## S220 CARBIDE END MILLS- Ball Nose- 2F For Graphite

- CEBGM20000A
- CEBG20000A



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	鍍膜訂購編號 Coated Order No.
0.5R	2	60	4	2	CEBGM20050A
1.0R	4	60	4	2	CEBGM20100A
1.5R	6	60	4	2	CEBGM20150A
2.0R	8	60	4	2	CEBGM20200A
1.5R	6	60	6	2	CEBG20150A
2.0R	8	60	6	2	CEBG20200A
2.5R	10	60	6	2	CEBG20250A
3.0R	12	60	6	2	CEBG20300A
4.0R	16	60	8	2	CEBG20400A
5.0R	20	75	10	2	CEBG20500A
6.0R	24	75	12	2	CEBG20600A

S220 S220 Carbide End Mills

S220 鎢鋼銑刀系列

→ 切削條件表 P.544 → 技術資料 P.622