

鎢鋼成型銑刀 系列

Carbide Special End Mills Series

泛用鋼材 $\leq 50\text{HRC}$

不銹鋼

鋁合金 / 銅合金

鑄鐵

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



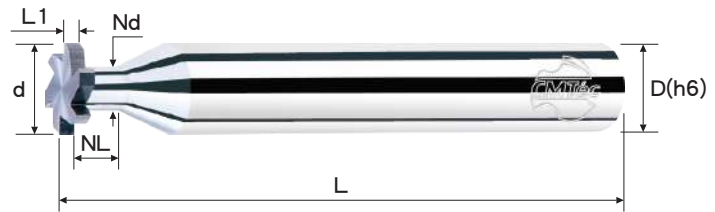
產品選擇表 Product Selection Table

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
鎢鋼成型銑刀系列 Carbide Special End Mills						
T型刀 T-Slot Keyseat End Mills	四/六刃 4/6 Flutes	CEK000000000A			Ø4 ~ Ø12	166
	10/12/16刃 10/12/16 Flutes	AEK000000000			Ø16 ~ Ø30	167
外圓槽銑刀 Convex End Mills	四/六刃 4/6 Flutes	CEC000000000A			Ø4 ~ Ø12	168
	10/12/16刃 10/12/16 Flutes	AEC000000000			Ø16 ~ Ø30	169
鳩尾槽銑刀 Dovetail End Mills	四/六刃 4/6 Flutes	CECS00000000000A	45°		Ø3 ~ Ø12	170
		CECS00000000000A	60°		Ø3 ~ Ø12	170
等角鳩尾槽 銑刀 V-Type Dovetail End Mills	四/六刃 4/6 Flutes	CECSW000000000A	60°		Ø6 ~ Ø12	171
		CECSW000000000A	90°		Ø6 ~ Ø12	171
倒角兼用銑刀 V-Pointed End Mills	二刃 2 Flutes	CEC200000000A	90°		Ø3 ~ Ø20	172
		CEC200000000A	120°		Ø3 ~ Ø20	172
扁形倒角銑刀 Chamfering End Mills	二刃 2 Flutes	CEFC000000	標準型-Standard 60 / 90 / 120°		Ø3 ~ Ø16	173
多功能 倒角銑刀 Multifunctional Chamfer End Mills (Chamfering- Spotting- Engraving)	單刃 1 Flute	CEFC100000	標準型-Standard 60 / 90°		Ø3 ~ Ø12	174
		CEFCL100000	長柄型-Long Shank 60 / 90°		Ø3 ~ Ø12	174
	三刃 3 Flutes	MEFCD300000A	標準型-Standard 60 / 90°		Ø3 ~ Ø12	175
		MEFCDL300000A	長柄型-Long Shank 60 / 90°		Ø3 ~ Ø12	175
		MEFC300000A	標準型-Standard 60 / 90°		Ø3 ~ Ø12	176
		MEFCL300000A	長柄型-Long Shank 60 / 90°		Ø3 ~ Ø12	176
雕刻銑刀 Engraving End Mills	單刃 1 Flute	CEU(M)000000	標準型-Standard 30 / 60 / 90°		Ø0.1 ~ Ø1.5	177
內R角銑刀 Inner Radius End Mills	二刃 2 Flutes	CEIR200000000			0.5R ~ 6.0R	178

鎢鋼T型刀- 直刃

CARBIDE END MILLS- T-Slot Keyseat- Flat Flute

· CEK000000000A



刃長	公差 Tolerance
L1	±0.02



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※ 螺旋刃依需求生產。
Helix flute is on request.

刃徑 d	刃長 L1	頸徑 Nd	頸長 NL	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.
4.0	0.5	2.5	3.5	50	4	4	CEK040005004	CEK040005004A
4.0	0.6	2.5	3.5	50	4	4	CEK040006004	CEK040006004A
4.0	0.7	2.5	3.5	50	4	4	CEK040007004	CEK040007004A
4.0	0.8	2.5	3.5	50	4	4	CEK040008004	CEK040008004A
4.0	0.9	2.5	3.5	50	4	4	CEK040009004	CEK040009004A
4.0	1.0	2.5	3.5	50	4	4	CEK040010004	CEK040010004A
4.0	1.5	2.5	3.5	50	4	4	CEK040015004	CEK040015004A
4.0	2.0	2.5	3.5	50	4	4	CEK040020004	CEK040020004A
5.0	0.5	2.5	4.0	50	6	4	CEK050005004	CEK050005004A
5.0	0.6	2.5	4.0	50	6	4	CEK050006004	CEK050006004A
5.0	0.7	2.5	4.0	50	6	4	CEK050007004	CEK050007004A
5.0	0.8	2.5	4.0	50	6	4	CEK050008004	CEK050008004A
5.0	0.9	2.5	4.0	50	6	4	CEK050009004	CEK050009004A
5.0	1.0	2.5	4.0	50	6	4	CEK050010004	CEK050010004A
5.0	1.5	2.5	4.0	50	6	4	CEK050015004	CEK050015004A
5.0	2.0	2.5	4.0	50	6	4	CEK050020004	CEK050020004A
6.0	0.5	3.0	4.0	50	6	6	CEK060005006	CEK060005006A
6.0	0.6	3.0	4.0	50	6	6	CEK060006006	CEK060006006A
6.0	0.7	3.0	4.0	50	6	6	CEK060007006	CEK060007006A
6.0	0.8	3.0	4.0	50	6	6	CEK060008006	CEK060008006A
6.0	0.9	3.0	4.0	50	6	6	CEK060009006	CEK060009006A
6.0	1.0	3.0	4.0	50	6	6	CEK060010006	CEK060010006A
6.0	1.5	3.0	4.0	50	6	6	CEK060015006	CEK060015006A
6.0	2.0	3.0	4.0	50	6	6	CEK060020006	CEK060020006A
8.0	1.0	4.0	4.0	60	8	6	CEK080010006	CEK080010006A
8.0	1.5	4.0	4.0	60	8	6	CEK080015006	CEK080015006A
8.0	2.0	4.0	4.0	60	8	6	CEK080020006	CEK080020006A
10.0	1.0	5.0	6.0	75	10	6	CEK100010006	CEK100010006A
10.0	1.5	5.0	6.0	75	10	6	CEK100015006	CEK100015006A
10.0	2.0	5.0	6.0	75	10	6	CEK100020006	CEK100020006A
12.0	1.0	6.0	7.0	75	12	6	CEK120010006	CEK120010006A
12.0	1.5	6.0	7.0	75	12	6	CEK120015006	CEK120015006A
12.0	2.0	6.0	7.0	75	12	6	CEK120020006	CEK120020006A

→ 切削條件表 P.557
Cutting Condition

→ 技術資料 P.622
Technical Data

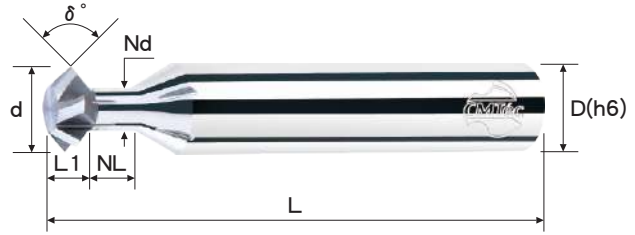
SPECIAL Carbide Special End Mills

鎢鋼成型銑刀系列

鎢鋼等角鳩尾槽銑刀- 直刃

CARBIDE END MILLS- V-Type Dovetail- Flat Flute

CECSW000000000A



角度	公差 Tolerance
δ°	$\pm 1^\circ$



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刃徑 d	角度 δ°	刃長 L1	頸徑 Nd	頸長 NL	全長 L	柄徑 D	刃數 F	白刀訂購編號	鍍膜訂購編號
								Uncoated Order No.	Coated Order No.
6.0	60°	1.8	2.7	4	60	6	4	CECSW060018060	CECSW060018060A
8.0	60°	2.4	3.6	5	60	8	6	CECSW080024060	CECSW080024060A
10.0	60°	3.1	4.5	6	75	10	6	CECSW100031060	CECSW100031060A
12.0	60°	3.7	5.4	7	75	12	6	CECSW120037060	CECSW120037060A
6.0	90°	2.8	3.0	4	60	6	4	CECSW060028090	CECSW060028090A
8.0	90°	3.8	4.0	5	60	8	6	CECSW080038090	CECSW080038090A
10.0	90°	4.8	5.0	6	75	10	6	CECSW100048090	CECSW100048090A
12.0	90°	5.8	6.0	7	75	12	6	CECSW120058090	CECSW120058090A

SPECIAL Carbide Special End Mills

鎢鋼成型銑刀系列

鎢鋼倒角兼用銑刀- 2刃

CARBIDE END MILLS- V-Pointed- 2F

CEC20000000A



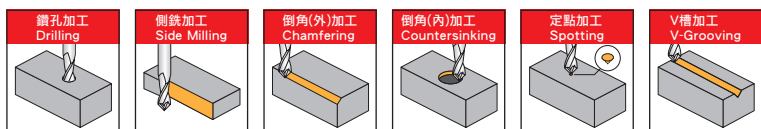
角度	公差 Tolerance
ε°	±1°
代碼	角度
C0	120

※ 尖點建議輕切削
Light-cutting will be recommended for point.



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頂角 ε°	刃徑 d	刃長 L1	全長 L	柄徑 D	鍍膜訂購編號 Coated Order No.
90°	3.0	6	50	6	CEC2030090A
90°	4.0	8	50	6	CEC2040090A
90°	5.0	10	50	6	CEC2050090A
90°	6.0	12	50	6	CEC2060090A
90°	8.0	16	60	8	CEC2080090A
90°	10.0	20	75	10	CEC2100090A
90°	12.0	24	75	12	CEC2120090A
90°	16.0	32	100	16	CEC2160090A
90°	20.0	40	100	20	CEC2200090A
120°	3.0	6	50	6	CEC20300C0A
120°	4.0	8	50	6	CEC20400C0A
120°	5.0	10	50	6	CEC20500C0A
120°	6.0	12	50	6	CEC20600C0A
120°	8.0	16	60	8	CEC20800C0A
120°	10.0	20	75	10	CEC21000C0A
120°	12.0	24	75	12	CEC21200C0A
120°	16.0	32	100	16	CEC21600C0A
120°	20.0	40	100	20	CEC22000C0A



切削條件表 P.557
技術資料 P.622
 Cutting Condition Technical Data

SPECIAL

鎢鋼成型銑刀系列

鎢鋼扁形倒角銑刀- 2刃

CARBIDE CHAMFERING END MILLS- Flat- 2F

· CEFC00000



角度	公差 Tolerance
ε °	± 1 °
代碼	角度
C0	120

※ 尖點建議輕切削
Light-cutting will be recommended for point.



頂角 ε °	刃徑 d	刃長 L1	全長 L	柄徑 D	白刀訂購編號 Uncoated Order No.
60°	3	2.59	50	3	CEFC03060
60°	4	3.46	50	4	CEFC04060
60°	6	5.19	50	6	CEFC06060
60°	8	6.92	50	8	CEFC08060
60°	10	8.66	75	10	CEFC10060
60°	12	10.39	75	12	CEFC12060
60°	16	13.85	75	16	CEFC16060
60°	3	2.59	75	3	CEFCL03060
60°	4	3.46	75	4	CEFCL04060
60°	6	5.19	75	6	CEFCL06060
60°	8	6.92	75	8	CEFCL08060
60°	10	8.66	100	10	CEFCL10060
60°	12	10.39	100	12	CEFCL12060
90°	3	1.50	50	3	CEFC03090
90°	4	2.00	50	4	CEFC04090
90°	6	3.00	50	6	CEFC06090
90°	8	4.00	50	8	CEFC08090
90°	10	5.00	75	10	CEFC10090
90°	12	6.00	75	12	CEFC12090
90°	16	8.00	75	16	CEFC16090
90°	3	1.50	75	3	CEFCL03090
90°	4	2.00	75	4	CEFCL04090
90°	6	3.00	75	6	CEFCL06090
90°	8	4.00	75	8	CEFCL08090
90°	10	5.00	100	10	CEFCL10090
90°	12	6.00	100	12	CEFCL12090
120°	3	0.86	50	3	CEFC030C0
120°	4	1.15	50	4	CEFC040C0
120°	6	1.73	50	6	CEFC060C0
120°	8	2.30	50	8	CEFC080C0
120°	10	2.88	75	10	CEFC100C0
120°	12	3.46	75	12	CEFC120C0
120°	16	4.61	75	16	CEFC160C0

→ 技術資料 Technical Data P.622

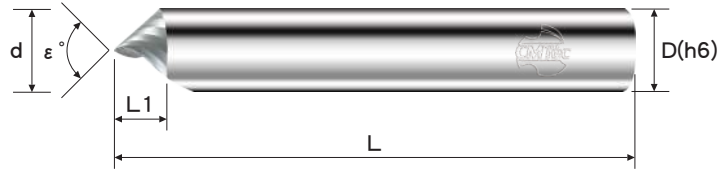
SPECIAL Carbide Special End Mills

鎢鋼成型銑刀系列

鎢鋼鋁用倒角銑刀- 標準 & 長柄型- 1 刃

CARBIDE CHAMFERING END MILLS- For Aluminum- 1F

- CEFC100000
- CEFCL100000



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※ 切削刃中心小平面 ≤ 刃徑的10%。
The cutting edge center flat is ≤ 10% of the cutting diameter.



角度	Tolerance(公差)
ε °	±1 °

頂角 ε °	刃徑 d	刃長 L1	全長 L	柄徑 D	白刀訂購編號 Uncoated Order No.
60°	3	2.59	50	3	CEFC103060
60°	4	3.46	50	4	CEFC104060
60°	6	5.19	50	6	CEFC106060
60°	8	6.92	60	8	CEFC108060
60°	10	8.66	60	10	CEFC110060
60°	12	10.39	60	12	CEFC112060
60°	3	2.59	75	3	CEFCL103060
60°	4	3.46	75	4	CEFCL104060
60°	6	5.19	75	6	CEFCL106060
60°	8	6.92	100	8	CEFCL108060
60°	10	8.66	100	10	CEFCL110060
60°	12	10.39	100	12	CEFCL112060
90°	3	1.50	50	3	CEFC103090
90°	4	2.00	50	4	CEFC104090
90°	6	3.00	50	6	CEFC106090
90°	8	4.00	60	8	CEFC108090
90°	10	5.00	60	10	CEFC110090
90°	12	6.00	60	12	CEFC112090
90°	3	1.50	75	3	CEFCL103090
90°	4	2.00	75	4	CEFCL104090
90°	6	3.00	75	6	CEFCL106090
90°	8	4.00	100	8	CEFCL108090
90°	10	5.00	100	10	CEFCL110090
90°	12	6.00	100	12	CEFCL112090



→ 切削條件表 P.556
Cutting Condition

→ 技術資料 P.622
Technical Data

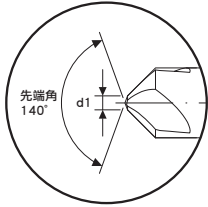
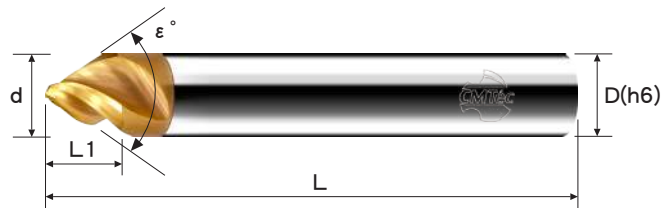
SPECIAL Carbide Special End Mills

鎢鋼成型銑刀系列

鎢鋼高硬用倒角銑刀- 標準 & 長柄型- 3刃

CARBIDE CHAMFERING END MILLS- For High Hardness- 3F

- MEFCD300000A
- MEFCDL300000A



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角度	Tolerance(公差)
ϵ°	$\pm 1^\circ$

頂角 ϵ°	刃徑 d	先端徑 d1	刃長 L1	全長 L	柄徑 D	鍍膜訂購編號 Coated Order No.
60°	3	0.6	2.17	50	3	MEFCD303060A
60°	4	0.8	2.91	50	4	MEFCD304060A
60°	6	1.2	4.37	50	6	MEFCD306060A
60°	8	1.6	5.83	60	8	MEFCD308060A
60°	10	2.0	7.28	60	10	MEFCD310060A
60°	12	2.4	8.74	60	12	MEFCD312060A
60°	3	0.6	2.17	75	3	MEFCDL303060A
60°	4	0.8	2.91	75	4	MEFCDL304060A
60°	6	1.2	4.37	75	6	MEFCDL306060A
60°	8	1.6	5.83	100	8	MEFCDL308060A
60°	10	2.0	7.28	100	10	MEFCDL310060A
60°	12	2.4	8.74	100	12	MEFCDL312060A
90°	3	0.6	1.30	50	3	MEFCD303090A
90°	4	0.8	1.74	50	4	MEFCD304090A
90°	6	1.2	2.61	50	6	MEFCD306090A
90°	8	1.6	3.49	60	8	MEFCD308090A
90°	10	2.0	4.36	60	10	MEFCD310090A
90°	12	2.4	5.23	60	12	MEFCD312090A
90°	3	0.6	1.30	75	3	MEFCDL303090A
90°	4	0.8	1.74	75	4	MEFCDL304090A
90°	6	1.2	2.61	75	6	MEFCDL306090A
90°	8	1.6	3.49	100	8	MEFCDL308090A
90°	10	2.0	4.36	100	10	MEFCDL310090A
90°	12	2.4	5.23	100	12	MEFCDL312090A



→ 切削條件表 Cutting Condition P.556

→ 技術資料 Technical Data P.622

SPECIAL Carbide Special End Mills

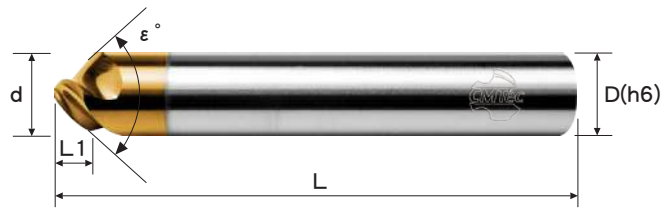
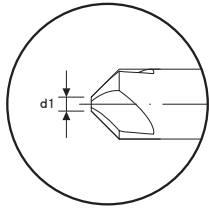
鎢鋼成型銑刀系列

鎢鋼倒角銑刀- 標準 & 長柄型- 3刃

CARBIDE CHAMFERING END MILLS- Standard- 3F

· MEFC300000A

· MEFCL300000A



先端徑 d1	公差 Tolerance
d1 ≤ 1	0 ~ -0.02
d1 > 1	0 ~ -0.05

角度	Tolerance(公差)
ε °	±0.5°



※ 產品特色：可由編程精準控制倒角尺寸。
Programming control chamfer dimension.



頂角 ε °	刃徑 d	先端徑 d1 (Max)	刃長 L1	全長 L	柄徑 D	鍍膜訂購編號 Coated Order No.
60°	3	0.8	1.90	50	3	MEFC303060A
60°	4	0.8	2.77	50	4	MEFC304060A
60°	6	1.0	4.33	50	6	MEFC306060A
60°	8	1.0	6.06	60	8	MEFC308060A
60°	10	2.0	6.92	60	10	MEFC310060A
60°	12	2.0	8.66	60	12	MEFC312060A
60°	3	0.8	1.90	75	3	MEFCL303060A
60°	4	0.8	2.77	75	4	MEFCL304060A
60°	6	1.0	4.33	75	6	MEFCL306060A
60°	8	1.0	6.06	100	8	MEFCL308060A
60°	10	2.0	6.92	100	10	MEFCL310060A
60°	12	2.0	8.66	100	12	MEFCL312060A
90°	3	0.8	1.10	50	3	MEFC303090A
90°	4	0.8	1.60	50	4	MEFC304090A
90°	6	1.0	2.50	50	6	MEFC306090A
90°	8	1.0	3.50	60	8	MEFC308090A
90°	10	2.0	4.00	60	10	MEFC310090A
90°	12	2.0	5.00	60	12	MEFC312090A
90°	3	0.8	1.10	75	3	MEFCL303090A
90°	4	0.8	1.60	75	4	MEFCL304090A
90°	6	1.0	2.50	75	6	MEFCL306090A
90°	8	1.0	3.50	100	8	MEFCL308090A
90°	10	2.0	4.00	100	10	MEFCL310090A
90°	12	2.0	5.00	100	12	MEFCL312090A



→ 切削條件表 Cutting Condition P.556

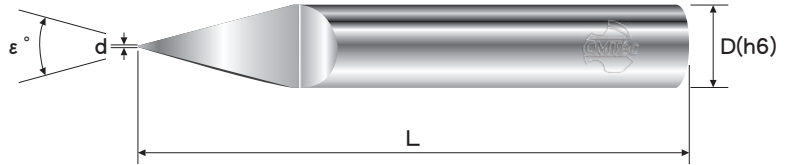
→ 技術資料 Technical Data P.622

鎢鋼雕刻刀- 標準型- 1刃

CARBIDE ENGRAVING END MILLS- Standard- 1F

· CEUM000000

· CEU000000



加工材質：鋼材、鋁合金、黃銅、塑膠、木材。
For steel, aluminum, brass, plastic, wood.

※ 其他刃徑公差規格依需求生產。

Special tolerance(ϕ) is on request.

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



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頂角 ϵ°	刃徑 d	全長 L	柄徑 D	刃數 F	白刀訂購編號 Uncoated Order No.
30°	0.10	50	4	1	CEUM001030
30°	0.25	50	4	1	CEUM002530
30°	0.50	50	4	1	CEUM005030
30°	0.75	50	4	1	CEUM007530
30°	0.10	50	6	1	CEU001030
30°	0.25	50	6	1	CEU002530
30°	0.50	50	6	1	CEU005030
30°	0.75	50	6	1	CEU007530
60°	0.10	50	4	1	CEUM001060
60°	0.25	50	4	1	CEUM002560
60°	0.50	50	4	1	CEUM005060
60°	0.75	50	4	1	CEUM007560
60°	1.50	50	4	1	CEUM015060
60°	0.10	50	6	1	CEU001060
60°	0.25	50	6	1	CEU002560
60°	0.50	50	6	1	CEU005060
60°	0.75	50	6	1	CEU007560
60°	1.50	50	6	1	CEU015060
90°	0.10	50	4	1	CEUM001090
90°	0.25	50	4	1	CEUM002590
90°	0.50	50	4	1	CEUM005090
90°	0.75	50	4	1	CEUM007590
90°	1.50	50	4	1	CEUM015090
90°	0.10	50	6	1	CEU001090
90°	0.25	50	6	1	CEU002590
90°	0.50	50	6	1	CEU005090
90°	0.75	50	6	1	CEU007590
90°	1.50	50	6	1	CEU015090

→ 切削條件表 P.555
Cutting Condition

→ 技術資料 P.622
Technical Data

SPECIAL

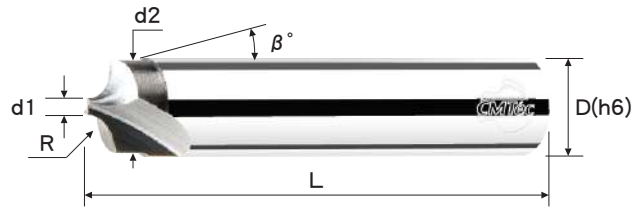
Carbide Special End Mills

鎢鋼成型銑刀系列

鎢鋼內R角銑刀- 2刃

CARBIDE END MILLS- Inner Radius- 2F

CEIR200000000

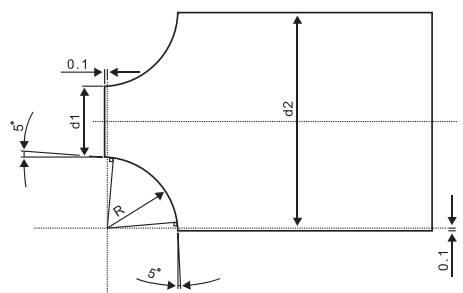


R角	公差 Tolerance
R<1	±0.02
1≤R<5	±0.03
5≤R	±0.05



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R角 R	柄斜角 β°	先端徑 d1	粗端徑 d2	全長 L	柄徑 D	白刀訂購編號 Uncoated Order No.
0.5R	15°	1.5	2.7	50	4	CEIR20150050
0.75R	15°	1.5	3.2	50	4	CEIR20150075
1.0R	15°	1.5	3.7	50	4	CEIR20150100
1.25R	—	1.5	4.2	50	6	CEIR20150125
1.5R	15°	1.5	4.7	50	6	CEIR20150150
1.75R	15°	1.5	5.2	50	6	CEIR20150175
2.0R	15°	1.5	5.7	50	6	CEIR20150200
2.5R	—	1.5	6.7	50	8	CEIR20150250
3.0R	15°	1.5	7.7	50	8	CEIR20150300
4.0R	15°	2.0	10.2	60	12	CEIR20200400
5.0R	15°	3.0	13.2	75	16	CEIR20300500
6.0R	15°	3.0	15.2	75	16	CEIR20300600



→ 切削條件表 P.558 Cutting Condition P.558
→ 技術資料 P.622 Technical Data P.622

SPECIAL Carbide Special End Mills

鎢鋼成型銑刀系列