

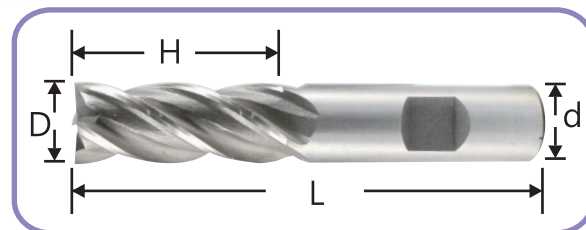
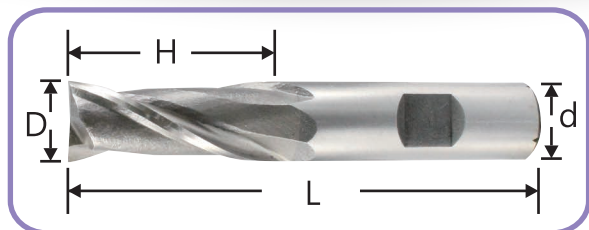


CME Hss 標準刃立銑刀 Hss end mills - standard flutes

2
Flutes

4
Flutes

HSS



D	H	d	L	Flutes
1.0	3	6	50	2
1.5	4.5	6	50	2
2.0	7	6	50	2
2.5	7	6	50	2
3.0	9	6	50	2 / 4
3.5	12	6	60	2 / 4
4.0	12	6	60	2 / 4
4.5	15	6	60	2 / 4
5.0	15	6	60	2 / 4
5.5	15	6	60	2 / 4
6.0	15	6	60	2 / 4
6.5	20	8	65	2 / 4
7.0	20	8	65	2 / 4
7.5	20	8	65	2 / 4
8.0	20	8	65	2 / 4
8.5	25	10	75	2 / 4
9.0	25	10	75	2 / 4
9.5	25	10	75	2 / 4
10.0	25	10	75	2 / 4
10.5	30	10	80	2 / 4
11.0	30	12	80	2 / 4
11.5	30	12	80	2 / 4
12.0	30	12	80	2 / 4
12.5	35	12	85	2 / 4
13.0	35	12/16	90	2 / 4
13.5	35	12	90	2 / 4
14.0	35	12/16	90	2 / 4
14.5	35	16	90	2 / 4
15.0	35	16	95	2 / 4

D	H	d	L	Flutes
15.5	35	16	95	2 / 4
16.0	40	16	95	2 / 4
16.5	40	16	100	2 / 4
17.0	40	16/20	105	2 / 4
17.5	40	16	105	2 / 4
18.0	40	16/20	105	2 / 4
18.5	40	16	105	2 / 4
19.0	45	20	110	2 / 4
19.5	45	20	110	2 / 4
20.0	45	20	110	2 / 4
20.5	45	20	110	2 / 4
21.0	45	20	110	2 / 4
21.5	45	20	110	2 / 4
22.0	45	20	110	2 / 4
22.5	45	20	110	2 / 4
23.0	50	25	120	2 / 4
23.5	45	25	110	2 / 4
24.0	50	25	120	2 / 4
24.5	50	25	120	2 / 4
25.0	50	25	120	2 / 4
26.0	50	25	120	2 / 4
27.0	55	25	125	2 / 4
28.0	55	25	125	2 / 4
29.0	55	25	125	2 / 4
30.0	55	25	125	2 / 4
31.0	60	32	145	2 / 4
32.0	60	32	145	2 / 4
33.0	60	32	145	2 / 4
34.0	60	32	145	2 / 4

D	H	d	L	Flutes
35.0	60	32	145	2 / 4
36.0	60	32	145	2 / 4
37.0	65	32	150	2 / 4
38.0	65	32	150	2 / 4
39.0	65	32	150	2 / 4
40.0	65	32	150	2 / 4
41.0	65	32	150	2 / 4
42.0	65	32	150	2 / 4
43.0	70	32	155	2 / 4
44.0	70	32	155	2 / 4
45.0	70	32/42	155	2 / 4
46.0	70	32	155	2 / 4
47.0	70	32	155	2 / 4
48.0	70	32	155	2 / 4
49.0	70	32	155	2 / 4
50.0	70	32	155	2 / 4
52.0	70	32	160	2 / 4
54.0	70	32	160	2 / 4
56.0	70	32	160	2 / 4
58.0	70	32	160	2 / 4
60.0	70	32	160	2 / 4



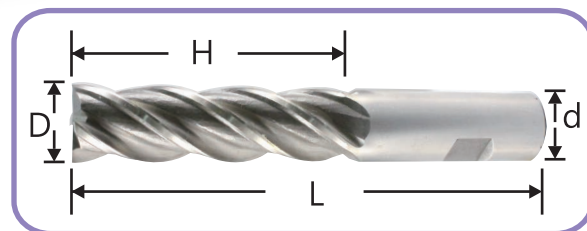
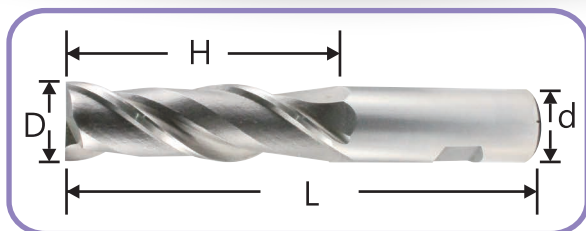
CMH Hss 長刃立銑刀

Hss end mills - long flutes

2
Flutes

4
Flutes

HSS



D	H	d	L	Flutes
6	25	8	65	2 / 4
7	35	8	80	2 / 4
8	35	8	80	2 / 4
9	45	10	95	2 / 4
10	45	10	95	2 / 4
11	55	12	105	2 / 4
12	55	12	105	2 / 4
13	55	12	110	2 / 4
14	55	16	110	2 / 4
15	65	16	120	2 / 4
16	65	16	120	2 / 4

D	H	d	L	Flutes
18	65	20	130	2 / 4
20	75	20	140	2 / 4
22	75	20	140	2 / 4
24	90	25	160	2 / 4
25	90	25	160	2 / 4
26	90	25	160	2 / 4
28	90	25	160	2 / 4
30	90	25	160	2 / 4
32	105	32	190	2 / 4
35	105	32	190	2 / 4
40	125	32	210	2 / 4

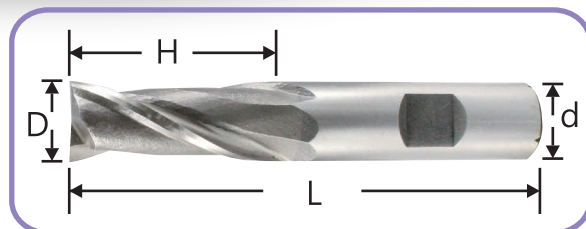


CMEI Hss 立銑刀(英吋)

Hss end mills - standard flutes (inch)

2
Flutes

HSS



D	H	d	L	Flutes
1/8	9	6	45	2
3/16	15	6	50	2
1/4	20	8	65	2
5/16	20	8	65	2
3/8	25	10	70	2
7/16	30	12	80	2
1/2	35	12	85	2

D	H	d	L	Flutes
9/16	40	16	95	2
5/8	40	16	95	2
11/16	40	20	105	2
3/4	45	20	110	2
7/8	45	20	110	2
1"	50	25	120	2



CMEATICN Hss 標準刃立銑刀覆TiCN

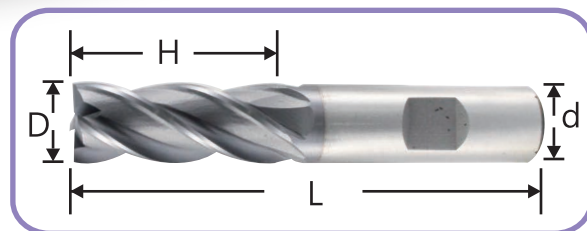
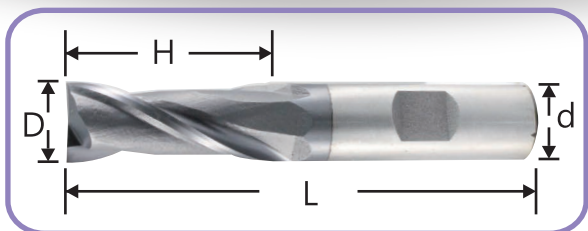
2
Flutes

4
Flutes

HSS

TiCN

Hss end mills - standard flutes - TiCN coated



D	H	d	L	Flutes
1.0	3	6	50	2
1.5	4.5	6	50	2
2.0	7	6	50	2
2.5	7	6	50	2
3.0	9	6	50	2 / 4
3.5	12	6	60	2 / 4
4.0	12	6	60	2 / 4
4.5	15	6	60	2 / 4
5.0	15	6	60	2 / 4
5.5	15	6	60	2 / 4
6.0	15	6	60	2 / 4
6.5	20	8	65	2 / 4
7.0	20	8	65	2 / 4
7.5	20	8	65	2 / 4
8.0	20	8	65	2 / 4
8.5	25	10	75	2 / 4

D	H	d	L	Flutes
9.0	25	10	75	2 / 4
9.5	25	10	75	2 / 4
10.0	25	10	75	2 / 4
10.5	30	10	80	2 / 4
11.0	30	12	80	2 / 4
11.5	30	12	80	2 / 4
12.0	30	12	80	2 / 4
12.5	35	12	85	2 / 4
13.0	35	12/16	90	2 / 4
13.5	35	12	90	2 / 4
14.0	35	12/16	90	2 / 4
14.5	35	16	90	2 / 4
15.0	35	16	95	2 / 4
15.5	35	16	95	2 / 4
16.0	40	16	95	2 / 4
16.5	40	16	100	2 / 4

D	H	d	L	Flutes
17.0	40	16/20	105	2 / 4
17.5	40	16	105	2 / 4
18.0	40	16/20	105	2 / 4
18.5	40	16	105	2 / 4
19.0	45	20	110	2 / 4
19.5	45	20	110	2 / 4
20.0	45	20	110	2 / 4
20.5	45	20	110	2 / 4
21.0	45	20	110	2 / 4
21.5	45	20	110	2 / 4
22.0	45	20	110	2 / 4
22.5	45	20	110	2 / 4
23.0	50	25	120	2 / 4
23.5	45	25	110	2 / 4
24.0	50	25	120	2 / 4
24.5	50	25	120	2 / 4
25.0	50	25	120	2 / 4



CMHATICN Hss 長刃立銑刀覆TiCN

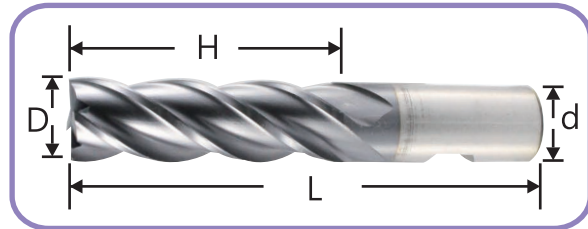
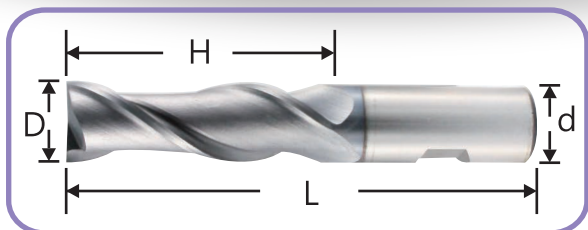
2
Flutes

4
Flutes

HSS

TiCN

Hss end mills - long flutes - TiCN coated



D	H	d	L	Flutes
6	25	8	65	2 / 4
8	35	8	80	2 / 4
10	45	10	95	2 / 4
12	55	12	105	2 / 4
14	55	16	110	2 / 4
16	65	16	120	2 / 4
18	65	20	130	2 / 4
20	75	20	140	2 / 4
25	90	25	160	2 / 4



TWEATICN Hss 高速鋼標準刃立銑刀覆TiCN

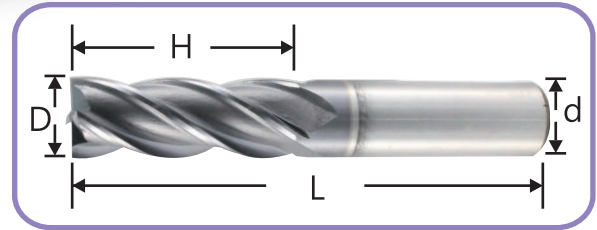
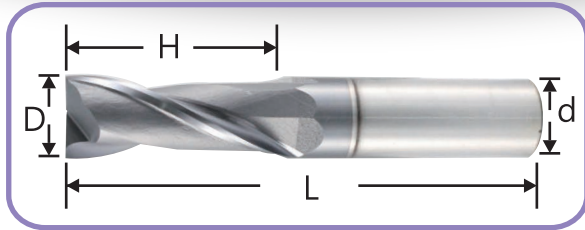
2
Flutes

4
Flutes

HSS

TiCN

Hss end mills - standard flutes - TiCN coated



D	H	d	L	Flutes
6.0	15	6	60	2 / 4
7.0	20	8	65	2 / 4
8.0	20	8	65	2 / 4
9.0	25	10	75	2 / 4
10.0	25	10	75	2 / 4
11.0	30	12	80	2 / 4
11.5	30	12	80	2 / 4
12.0	30	12	80	2 / 4
12.5	35	12	85	2 / 4
13.0	35	12	90	2 / 4
13.5	35	12	90	2 / 4
14.0	35	16	90	2 / 4

D	H	d	L	Flutes
14.5	40	16	90	2 / 4
15.0	40	16	95	2 / 4
15.5	40	16	95	2 / 4
16.0	40	16	95	2 / 4
16.5	40	16	100	2 / 4
17.0	40	16	105	2 / 4
17.5	40	16	105	2 / 4
18.0	40	20	105	2 / 4
18.5	40	16	105	2 / 4
19.0	45	20	110	2 / 4
19.5	45	20	110	2 / 4
20.0	45	20	110	2 / 4

D	H	d	L	Flutes
20.5	45	20	110	2 / 4
21.0	45	20	110	2 / 4
21.5	45	20	110	2 / 4
22.0	45	20	110	2 / 4
22.5	45	20	110	2 / 4
23.0	50	25	120	2 / 4
23.5	45	25	110	2 / 4
24.0	50	25	120	2 / 4
24.5	50	25	120	2 / 4
25.0	50	25	120	2 / 4



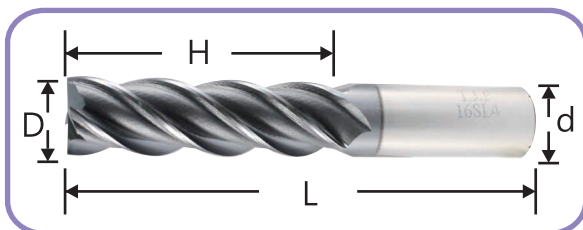
TWEATICN Hss 高速鋼長刃立銑刀覆TiCN

4
Flutes

HSS

TiCN

Hss end mills - long flutes - TiCN coated



D	H	d	L	Flutes
16	65	16	120	4
20	75	20	140	4
25	90	25	160	4
30	90	25	160	4



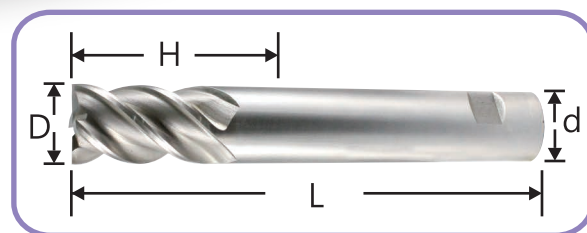
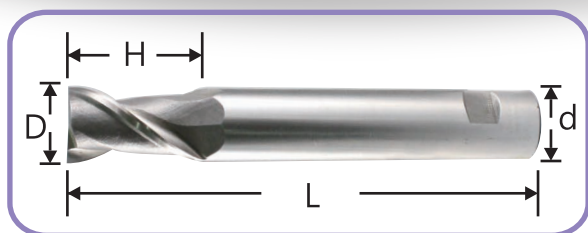
CML Hss 短刃長柄刃立銑刀

2
Flutes

4
Flutes

HSS

Hss end mills - long shank



D	H	d	L	Flutes
16	45	16	150	2 / 4
16	45	16	180	2 / 4
18	45	16	150	2 / 4
18	45	16	180	2 / 4
20	45	20	150	2 / 4
20	45	20	180	2 / 4
22	50	20	150	2
22	50	20	180	2 / 4
25	50	25	180	4
25	50	25	200	4
25	50	25	260	4
30	60	25	200	4

D	H	d	L	Flutes
30	60	25	260	4
30	60	25	300	4
35	60	32	250	4
35	60	32	300	4
35	60	32	350	4
40	60	32	250	4
40	60	32	300	4
40	80	32	350	4
50	80	32	350	4
50	80	42	420	4
50	100	42	420	4
50	100	42	480	4



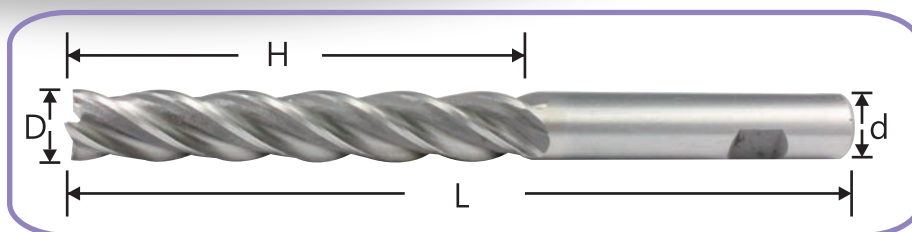
CMH4L Hss 超長刃立銑刀

4
Flutes

6
Flutes

HSS

Hss end mills - extra flutes



D	H	d	L	Flutes
16	100	16	180	4
20	80	20	180	4
20	120	20	220	4
25	100	25	200	4
25	150	25	250	4
30	120	25	220	4

D	H	d	L	Flutes
30	160	25	250	4
32	120	32	220	4
35	150	32	250	4
35	200	32	300	4
40	150	32	250	4
40	200	32	300	4

D	H	d	L	Flutes
40	200	42	300	4
40	250	42	350	4
50	150	42	250	4
50	200	42	300	4
50	250	42	350	6



CMER / CMERTICN Hss 標準刃粗齒粗銑刀 / 覆TiCN

4
Flutes

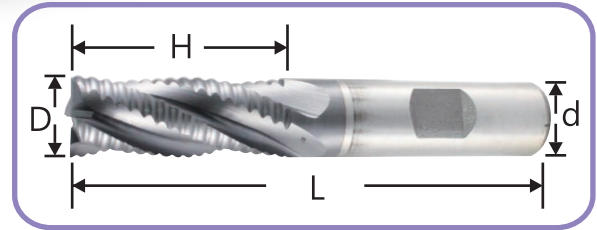
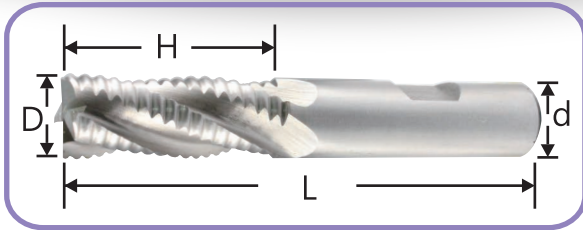
5
Flutes

6
Flutes

HSS

TiCN

Roughing Hss end mills - standard flutes
- TiCN coated



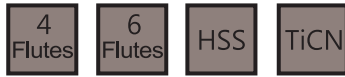
● 提供TiCN選擇 Provides coated TiCN options

	D	H	d	L	Flutes
●	6	15	6	60	4
●	7	20	8	65	4
●	8	20	8	70	4
●	9	25	10	75	4
●	10	25	10	80	4
●	11	30	12	80	4
●	12	30	12	80	4
●	13	35	12	80	4
●	14	35	16	90	4
●	15	35	16	90	4
●	16	40	16	95	4
●	17	40	20	105	4
●	18	40	20	105	4
●	19	40	20	105	4
●	20	45	20	110	4
●	21	45	20	110	4
●	22	45	20	110	4

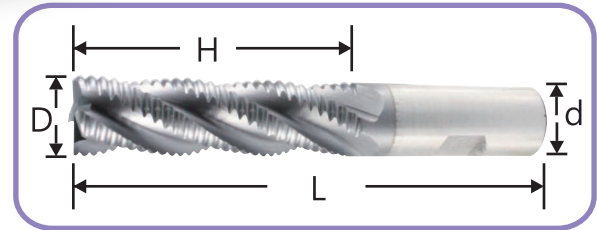
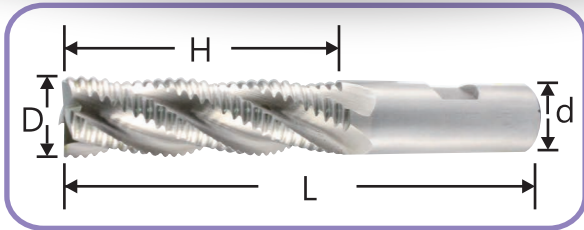
	D	H	d	L	Flutes
●	23	50	25	120	4
●	24	50	25	120	4
●	25	50	25	120	4 / 5
●	26	50	25	120	4
●	27	55	25	125	4
●	28	55	25	125	4
●	29	55	25	125	4
●	30	55	25	125	4 / 6
●	31	55	32	125	4
●	32	60	32	145	6
●	35	60	32	145	6
●	36	60	32	145	6
●	38	65	32	150	6
●	40	65	32	150	6
	45	65	32	155	6
	50	65	32	160	6



CMERH / CMERHTICN Hss 長刃粗齒粗銑刀 / 覆TiCN



Roughing Hss end mills - long flutes
- TiCN coated



● 提供TiCN選擇 Provides coated TiCN options

	D	H	d	L	Flutes
●	8	40	8	80	4
●	10	45	10	95	4
●	12	55	12	105	4
●	14	55	16	110	4
●	16	65	16	120	4
●	18	65	20	130	4
●	20	75	20	110	4
●	22	75	20	140	4
●	25	90	25	160	4
●	28	90	25	160	4
●	30	90	25/32	165	6
●	30	105	32	190	6
●	32	105	32	190	6

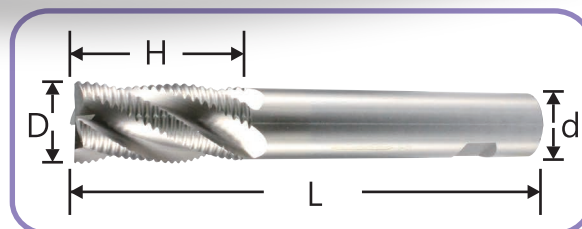
	D	H	d	L	Flutes
●	35	105	32	190	6
●	40	125	32	210	6
	50	100	42	250	6
	50	100	42	300	6
	50	100	42	350	6
	50	100	42	400	6
	50	125	42	200	6
	50	150	42	250	6
	50	200	42	300	6
	50	250	42	350	6
	50	300	42	400	6



CMERL Hss 長柄粗齒粗銑刀



Roughing Hss end mills - long shank



D	H	d	L	Flutes
22	50	20	160	4
25	65	25	160	4

D	H	d	L	Flutes
28	65	25	160	4
35	70	32	200	4



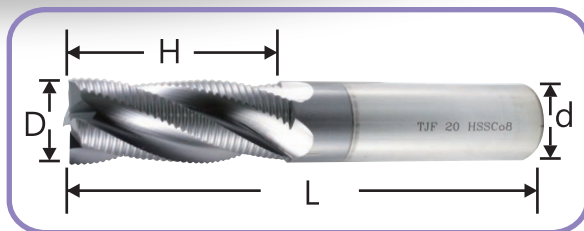
COER4TICN Hss 標準刃含鈷細齒粗銑刀覆TiCN

4
Flutes

Hss
co8%

TiCN

Fine pitch roughing Hss-co end mills
- standard flutes - TiCN coated



New

D	H	d	L	Flutes
6	15	6	60	4
7	20	8	65	4
8	20	8	70	4
9	25	10	75	4
10	25	10	80	4
11	30	12	80	4
12	30	12	80	4
13	35	12	80	4

D	H	d	L	Flutes
14	35	16	90	4
15	35	16	90	4
16	40	16	95	4
17	40	16	105	4
18	40	20	105	4
19	40	20	105	4
20	45	20	110	4



CMER4TICN Hss 標準刃細齒粗銑刀覆TiCN

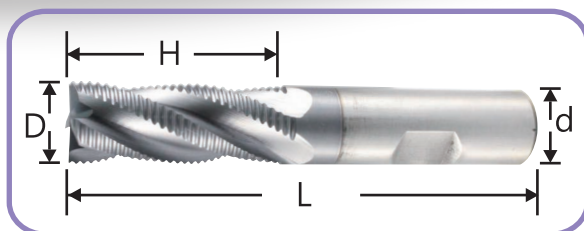
4
Flutes

6
Flutes

HSS

TiCN

Fine pitch roughing Hss end mills
- standard flutes - TiCN coated



D	H	d	L	Flutes
6	15	6	60	4
7	20	8	65	4
8	20	8	70	4
9	25	10	75	4
10	25	10	80	4
11	30	12	80	4
12	30	12	80	4
13	35	12	80	4

D	H	d	L	Flutes
14	35	16	90	4
15	35	16	90	4
16	40	16	95	4
17	40	16	105	4
18	40	16	105	4
19	40	20	105	4
20	45	20	110	4
21	45	20	110	4

D	H	d	L	Flutes
22	45	20	110	4
23	50	25	120	4
24	50	25	120	4
25	50	25	120	4
26	50	25	120	4
27	55	25	125	4
28	55	25	125	4
30	55	25	125	4
32	60	32	145	6



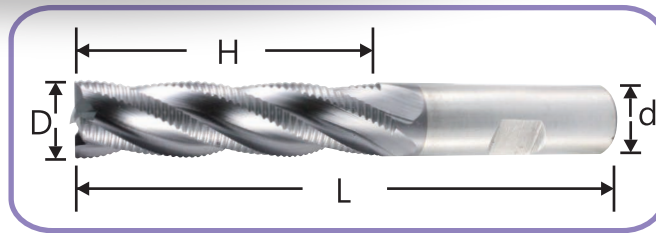
CMER4HTICN Hss 長刃細齒粗銑刀覆TiCN

4
Flutes

HSS

TiCN

Fine pitch roughing Hss end mills
- long flutes - TiCN coated



D	H	d	L	Flutes
12	55	12	105	4
16	65	16	120	4

D	H	d	L	Flutes
20	75	20	140	4
25	90	25	160	4



CMER4LTICN Hss 長柄細齒粗銑刀覆TiCN

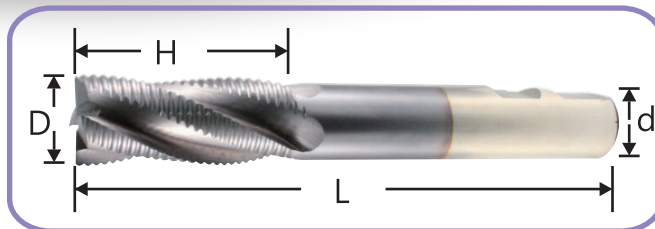
4
Flutes

6
Flutes

HSS

TiCN

Fine pitch roughing Hss end mills
- long shank - TiCN coated



D	H	d	L	Flutes
28	55	25	160	4
28	55	25	220	4
28	55	25	260	4
28	55	25	320	4

D	H	d	L	Flutes
35	60	32	210	6
35	60	32	260	6
35	60	32	310	6
35	60	32	360	6



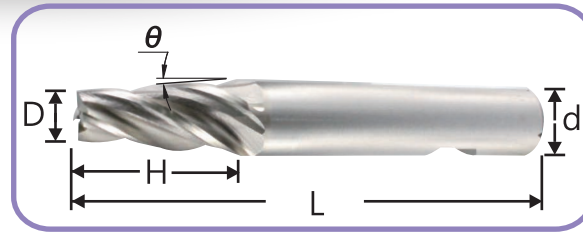
CMT Hss 斜度銑刀

Taper Hss end mills

2
Flutes

4
Flutes

HSS



D	θ	H	d	L	Flutes
3	0.5	10	6	45	2
3	1.0	10	6	45	2
3	1.5	10	6	45	2
3	2.0	10	6	45	2
3	2.5	10	6	45	2
3	3.0	10	6	45	2
3	4.0	10	6	45	2

D	θ	H	d	L	Flutes
4	0.5	15	6	50	2
4	1.0	15	6	50	2
4	1.5	15	6	50	2
4	2.0	15	6	50	2
4	2.5	15	6	50	2
4	3.0	15	6	50	2
4	4.0	15	6	50	2

D	θ	H	d	L	Flutes
5	0.5	20	6	55	2
5	1.0	20	6	55	2
5	1.5	20	6	55	2
5	2.0	20	6	55	2
5	2.5	20	6	55	2
5	3.0	20	6	55	2
5	4.0	20	6	55	2

D	θ	H	d	L	Flutes
6	0.5	20	6	55	2
6	1.0	20	6	55	2
6	1.5	20	6	55	2
6	2.0	20	6	55	2
6	2.5	20	6	60	2
6	3.0	20	8	60	2
6	4.0	20	8	60	2
6	5.0	20	8	80	2

D	θ	H	d	L	Flutes
8	0.5	25	8	65	2
8	1.0	25	8	65	2
8	1.5	25	8	65	2
8	2.0	25	8	65	2
8	2.5	25	8	70	2
8	3.0	25	10	70	2
8	4.0	25	10	70	2
8	5.0	25	12	90	2

D	θ	H	d	L	Flutes
10	0.5	35	10	85	2
10	1.0	35	10	85	2
10	1.5	35	10	85	2
10	2.0	35	10	90	2
10	2.5	35	10	90	2
10	3.0	35	12	90	2
10	4.0	35	12	90	2
10	5.0	35	16	115	2

D	θ	H	d	L	Flutes
12	0.5	55	12	110	4
12	1.0	55	12	110	4
12	1.5	55	12	110	4
12	2.0	55	12	110	4
12	2.5	55	16	110	4
12	3.0	55	16	110	4
12	4.0	55	16	110	4
12	5.0	55	20	155	4
12	7.0	55	20	155	4
12	10.0	55	25	155	4

D	θ	H	d	L	Flutes
16	0.5	65	16	130	4
16	1.0	65	16	130	4
16	1.5	65	16	130	4
16	2.0	65	20	130	4
16	2.5	65	20	130	4
16	3.0	65	20	130	4
16	5.0	65	25	165	4
16	7.0	65	32	165	4
16	10.0	65	32	165	4

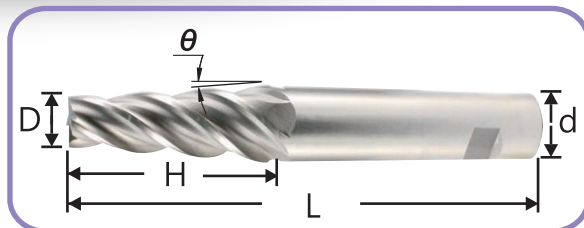


CMTL Hss 長刃斜度銑刀

Taper Hss end mills - long flutes

4
Flutes

HSS



D	θ	H	d	L	Flutes
10	0.5	60	10	120	4
10	1.0	60	12	120	4
10	1.5	60	12	120	4
10	2.0	60	12	150	4
10	2.5	60	16	160	4
10	3.0	60	16	160	4

D	θ	H	d	L	Flutes
16	0.5	100	16	170	4
16	1.0	100	16	170	4
16	1.5	100	20	170	4
16	2.0	100	20	170	4
16	2.5	100	20	170	4
16	3.0	100	25	170	4

D	θ	H	d	L	Flutes
12	0.5	80	12	150	4
12	1.0	80	12	150	4
12	1.5	80	16	160	4
12	2.0	80	16	180	4
12	2.5	80	20	180	4
12	3.0	80	20	180	4

D	θ	H	d	L	Flutes
20	0.5	100	20	180	4
20	1.0	100	25	190	4
20	1.5	100	25	190	4
20	2.0	100	25	220	4
20	2.5	100	32	225	4
20	3.0	100	32	225	4

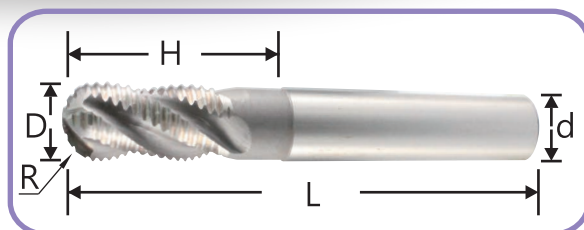


CMRR Hss 球型粗齒銑刀

Roughing ball Hss end mills

4
Flutes

HSS



R	D	H	d	L
5	10	30	10	80
6	12	30	12	105
8	16	40	16	120

R	D	H	d	L
10	20	40	20	160
12.5	25	45	25	160
15	30	50	25	170

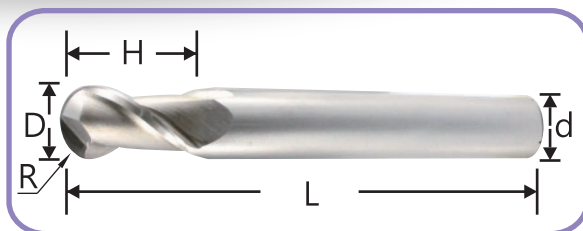


CMR Hss 標準刃球型銑刀

Ball nose Hss end mills
- standard flutes

2
Flutes

HSS



R	D	H	d	L
1	2	4	6	60
1.25	2.5	5	6	60
1.5	3.0	6	6	60
1.75	3.5	7	6	60
2	4.0	8	6	70
2.5	5.0	10	6	80
3	6.0	12	6	90
3.5	7.0	14	6	100
4	8.0	14	8	100
4.5	9.0	18	8	100
5	10.0	18	10	100

R	D	H	d	L
5.5	11	22	10	110
6	12	22	12	110
6.5	13	26	12	130
7	14	26	12	130
7.5	15	30	12	140
8	16	30	16	140
9	18	40	20	160
10	20	40	20	160
12.5	25	40	25	180
15	30	40	25	180



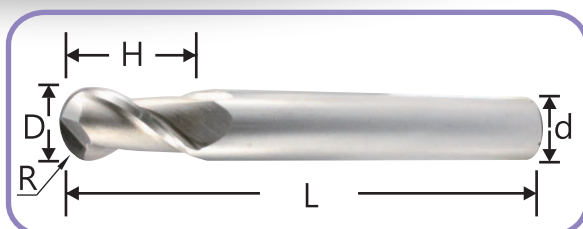
CMRL Hss 長柄球型銑刀

Ball nose Hss end mills
- long shank

2
Flutes

4
Flutes

HSS

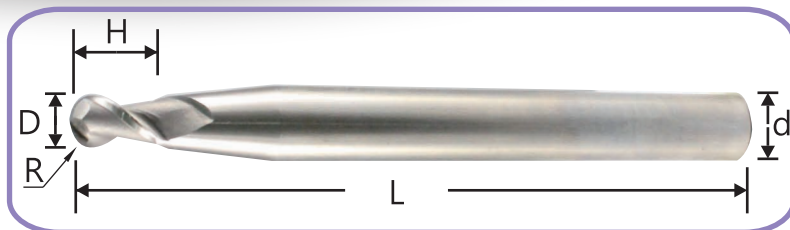


R	D	H	d	L	Flutes
8	16	30	16	200	2
8	16	30	16	200	4
10	20	40	20	200	2
10	20	40	20	250	2



CMRSL Hss 長斜柄球型銑刀

Ball nose Hss end mills
- long shank



R	D	H	d	L	Flutes
1.5	3	10	8	80	2
2	4	12	8	80	2
2.5	5	15	12	120	2
3	6	15	12	120	2
4	8	16	12	150	2
5	10	20	16	160	2 / 4

R	D	H	d	L	Flutes
6	12	25	16	180	2 / 4
8	16	30	20	220	2 / 4
10	20	38	25	250	2 / 4
12.5	25	50	32	300	4
15	30	55	32	300	2 / 4



CMRSL Hss 超長斜柄球型銑刀

Ball nose Hss end mills
- extra long shank



R	D	H	d	L	Flutes
2	4	8	8	130	2
3	6	12	10	150	2
4	8	14	12	180	2
5	10	18	16	200	2

R	D	H	d	L	Flutes
6	12	22	20	250	2 / 4
8	16	30	25	300	2 / 4
10	20	38	25	300	2 / 4
12.5	25	50	32	300	2 / 4



CMCR Hss 外角R銑刀 / 覆TiCN

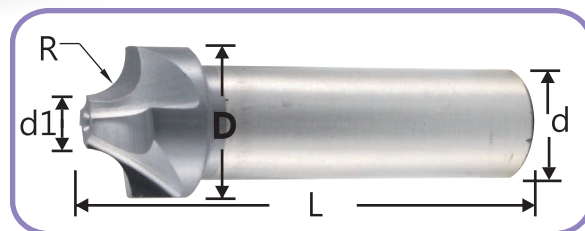
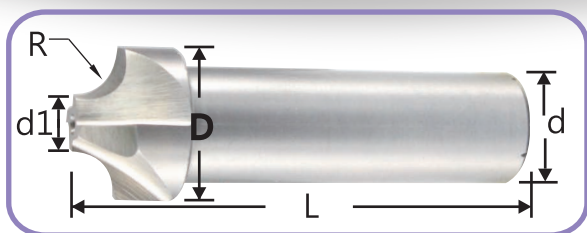
Corner rounding Hss end mills
- TiCN coated

2
Flutes

4
Flutes

HSS

TiCN



● 提供TiCN選擇 Provides coated TiCN options

	R	d1	D	d	L	Flutes
●	0.5	4	6	6	60	2
●	1.0	4	6	6	60	2
●	1.5	4	8	8	60	2
●	2.0	6	10	10	60	2
●	2.5	4	10	10	60	2
●	3.0	6	12	12	65	2
●	4.0	6	14	12	60	2

	R	d1	D	d	L	Flutes
●	5.0	6	16	16	60	2
●	6.0	8	21	16	65	4
●	8.0	9	24	25	75	4
●	10.0	10	28	25	82	2 / 4
●	12.5	12	36	25	85	4
●	15.0	16	48	32	110	4
●	20.0	12	53	32	120	4

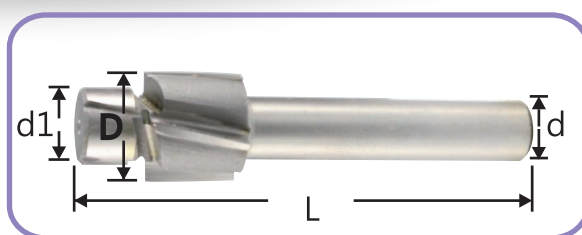


CMCK Hss 插梢沉頭銑刀

Push pin counterbore
Hss end mills

4
Flutes

HSS



Size	d1	D	H	d	L
M3	3	6	7	6	37
M4	4	8	10	6	44
M5	5	9	13	6	51
M6	6	10	15	8	58

Size	d1	D	H	d	L
M8	8	13	16	8	67
M10	10	15	16	10	74
M12	12	17	20	10	83



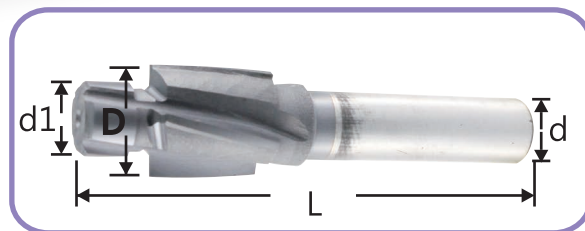
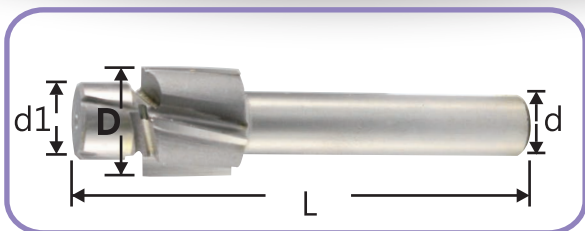
CMC Hss 直柄六角沉頭銑刀

Counterbore Hss end mills
with straight shank - TiCN coated

4
Flutes

HSS

TiCN



● 提供TiCN選擇 Provides coated TiCN options

	Size	d1	D	H	d	L
●	M3	3.2	5.9	7	6	37
●	M4	4.2	7.4	10	6	44
●	M5	5.2	8.9	13	8	51
●	M6	6.2	10.4	15	10	58
●	M8	8.2	13.4	16	12	67
●	M10	10.3	16.8	16	12	74
●	M12	12.4	18.8	20	12	83
●	M14	14.4	24	20	12	90
●	M16(5/8")	16.5	26	22	12	93

	Size	d1	D	H	d	L
●	1/4"	6.55	11	14	10	58
●	5/16"	8.25	14	16	12	67
●	3/8"	9.8	15	16	12	73
●	1/2"	13.2	20	20	12	83
●	3/4"	20	29	26	12	103



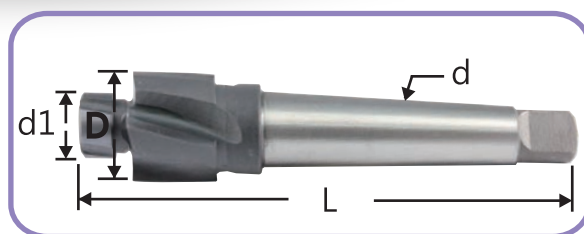
CMCT Hss 錐柄六角沉頭銑刀

Counterbore Hss end mills
with taper shank - TiCN coated

4
Flutes

HSS

TiCN



Size	d1	D	H	d	L
M10	10.5	17.5	17	MT1	101.5
M12	12.4	20	20	MT1	106.5
M14	14.4	23	20	MT1	110.5
M16	16.5	26	22	MT2	130.5
M18	18.5	29	24	MT2	134.5

Size	d1	D	H	d	L
M20	21	32	26	MT2	138.5
M22	23	35	27	MT2	142.5
M24	25	39	31	MT3	170
M30	31.5	48	37	MT3	182

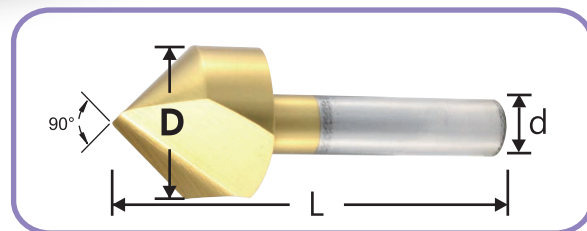
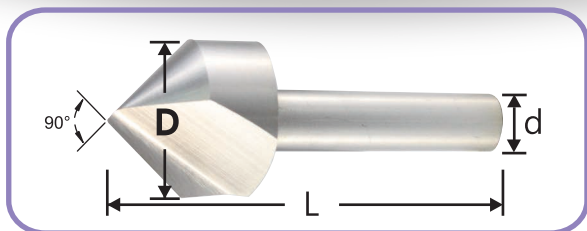


COA1 Hss-co 單刃90°倒角刀 / 覆TiN Single flute Hss-co 90° chamfering cutters - TiN coated

1
Flutes

Hss
co5%

TiN



- 提供TiN選擇 Provides coated TiN options

NEW

	D	Chamfering range	d	L
●	10	1 – 10	10	60
●	12	1 – 12	10	55
●	16	2 – 16	10	58
●	20	2 – 20	10	73

	D	Chamfering range	d	L
●	25	2 – 25	10	80
●	30	3 – 30	12	82
●	40	3 – 40	12	92

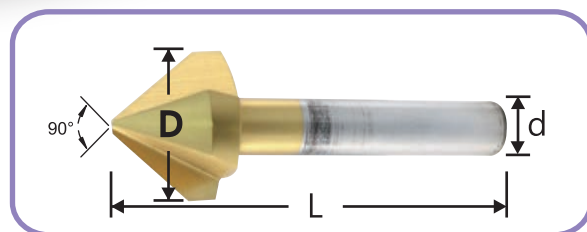
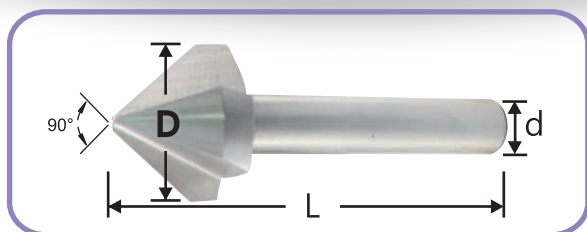


COA3 Hss-co 三刃90°倒角刀 / 覆TiN 3 flutes Hss-co 90° chamfering cutters - TiN coated

3
Flutes

Hss
co5%

TiN



- 提供TiN選擇 Provides coated TiN options

NEW

	D	Chamfering range	d	L
●	12.4	2.8-12.4	8	56
●	16.5	3.2-16.5	10	60

	D	Chamfering range	d	L
●	20.5	3.5-20.5	10	63
●	31	4.0-31	12	71



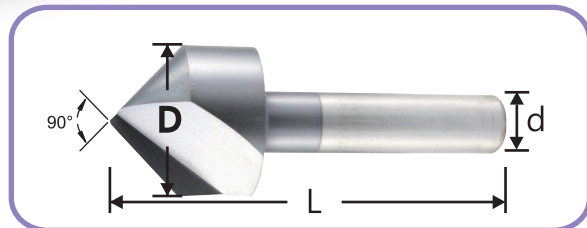
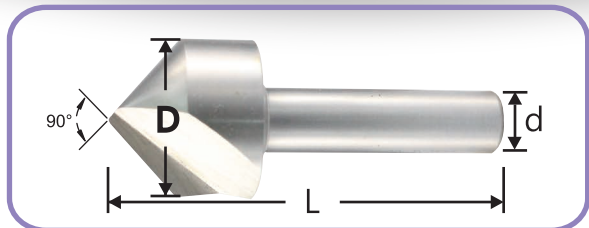
CMA1 Hss 單刃90°倒角刀 / 覆TiCN

Single flute Hss 90°
chamfering cutters - TiCN coated

1
Flutes

HSS

TiCN



● 提供TiCN選擇 Provides coated TiCN options

D	Chamfering range	d	L
10	1 – 10	10	60
12	1 – 12	10	55
16	2 – 16	10	58
20	2 – 20	10	73

D	Chamfering range	d	L
25	2 – 25	10	80
30	3 – 30	12	82
40	3 – 40	12	92
50	3 – 50	12	100



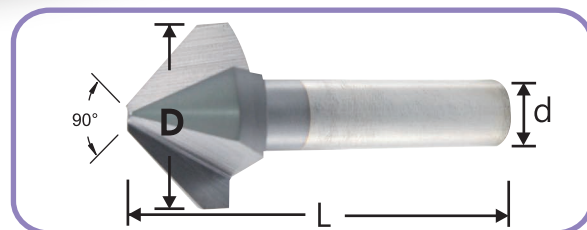
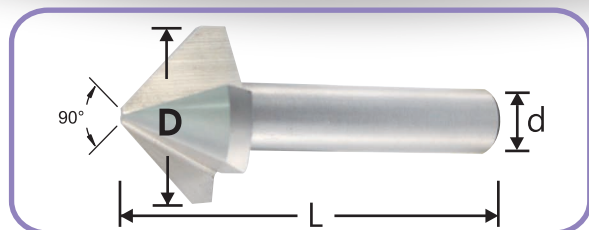
CMA3 Hss 3刃90°倒角刀 / 覆TiCN

3 flute Hss 90°
chamfering cutters - TiCN coated

3
Flutes

HSS

TiCN



● 提供TiCN選擇 Provides coated TiCN options

D	Chamfering range	d	L
12.4	2.8-12.4	8	56
16.5	3.2-16.5	10	60
20.5	3.5-20.5	10	63
25	3.8-25.0	10/12	67
31	4.0-31.0	12	71

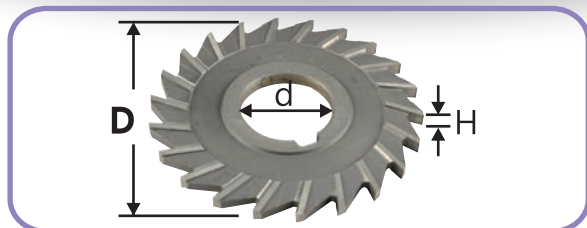
D	Chamfering range	d	L
37	4.8-37.0	MT2	118
40	10-40.0	12	85
40	10-40.0	MT3	140
50	14-50.0	MT3	150



CMS Hss 側銑刀

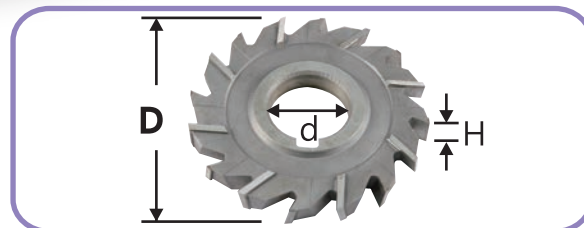
Hss side milling cutters

HSS



直刃 Parallel tooth

D	H	d	Tooth
075	3/4/5/6/7	25.4	22T
100	3/4/5/6/7	25.4	26T
125	3/4/5/6/7	25.4	28T
150	3/4/5/6/7	25.4	32T



千鳥刃 Staggered tooth

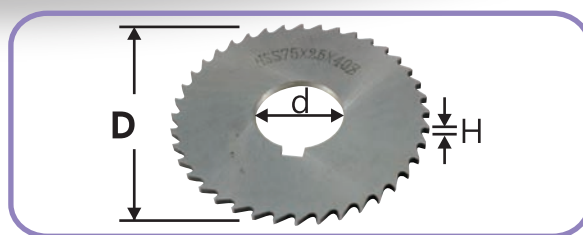
D	H	d	Tooth
075	8/9/10/12	25.4	16T
100	8/9/10/12	25.4	18T
125	8/9/10/12	25.4	20T
150	8/9/10/12	25.4	22T



CMM Hss 鋼圓鋸片

Hss metal slitting saw

HSS

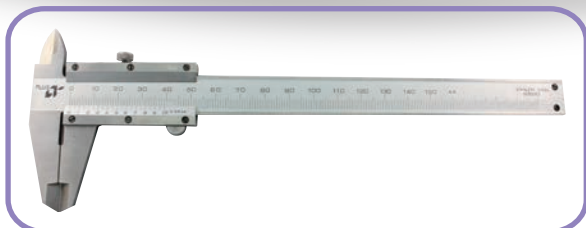


D	H	d	Tooth
075	1.0	25.4	48T
075	1.2/1.5/2.0	25.4	40T
075	2.5/3.0	25.4	40T
075	3.5/4.0	25.4	36T

D	H	d	Tooth
100	1.0/1.2	25.4	56T
100	1.5/2.0	25.4	56T
100	2.5/3.0	25.4	44T

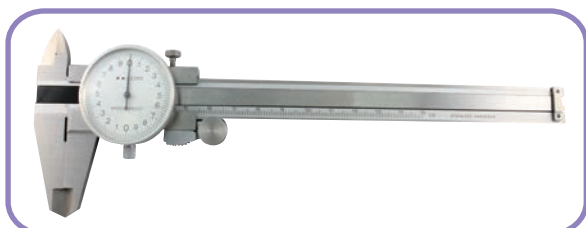
D	H	d	Tooth
125	1.0/1.5	25.4	68T
125	2.0/2.5/3.0	25.4	56T

D	H	d	Tooth
150	1.0/1.5	25.4	68T
150	2.0/2.5	25.4	68T
150	3.0	25.4	56T



Vernier caliper

Ranger	Ranger
0-150mm / 6"	0-600mm / 24"
0-200mm / 8"	0-1000mm / 40"
0-300mm / 12"	-



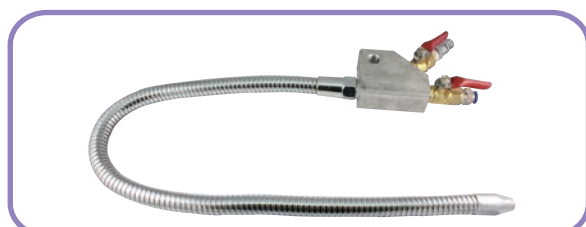
Dial caliper

Ranger	Dial indicator graduation
0-150mm / 6"	0.02
0-200mm / 8"	0.02
0-300mm / 12"	0.02



Dial indicator

Ordering code	Ranger
RAW	0-10mm"



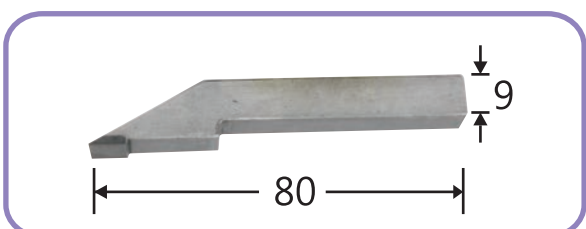
Mist coolant system

Ordering code
YV-RM-L



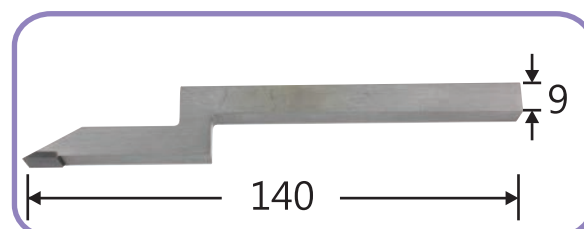
Dial height gage

Ordering code	Ranger
RH-300	0-300mm"



Carbide scriber

Ordering code
RH-01



Carbide scriber - long shank

Ordering code
RH-02



Ordering code	Ranger	Ordering code	Ranger
CMD-M-025	0-25	CMD-M-175	150-175
CMD-M-050	25-50	CMD-M-200	175-200
CMD-M-075	50-75	CMD-M-225	200-225
CMD-M-100	75-100	CMD-M-250	225-250
CMD-M-125	100-125	CMD-M-275	250-275
CMD-M-150	125-150	CMD-M-300	275-300



Ordering code	Ranger	Ordering code	Ranger
CMD-S-125	100-125	CMD-S-225	200-225
CMD-S-150	125-150	CMD-S-250	225-250
CMD-S-175	150-175	CMD-S-275	250-275
CMD-S-200	175-200	CMD-S-300	275-300



Ordering code	Ranger
CMD-I-30	5-30
CMD-I-50	30-50



Ordering code	Ranger
CMD-F-075	50-75
CMD-F-100	50-100
CMD-F-175	50-175
CMD-F-250	50-250
CMD-F-600	50-600