

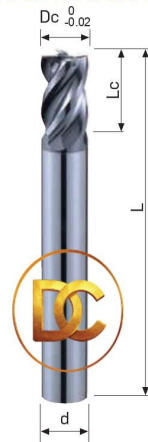
E14I-1.5HX / 2.0HX / 3.0HX 超微粒鎢鋼塗層多用途立銑刀

Multipurpose End Mills

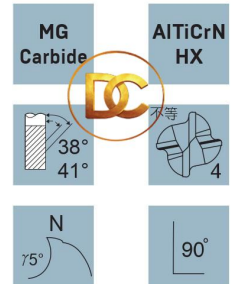
CÔNG TY TNHH TM DV SX DAI CHI

WWW.DAICHIJP.COM

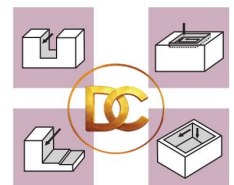
Code No. E14I-1.5HX-Dc				
Dc 0 -0.02	Lc mm	L mm	d h6	AlTiCrN E14I-1.5HX
1	1.5	50	4	●
1.5	2.3	50	4	●
2	3	50	4	●
2.5	3.8	50	4	●
3	4.5	50	6	●
3.5	5.3	50	6	●
4	6	50	6	●
4.5	6.8	50	6	●
5	7.5	50	6	●
5.5	8.3	50	6	●
6	9	50	6	●
8	12	65	8	●
10	15	75	10	●
12	18	80	12	●
16	24	100	16	●
20	30	120	20	●



Steel < 48HRC					
P	H	M	K	N	S
●	●	●	●	○	○



Type of Operation



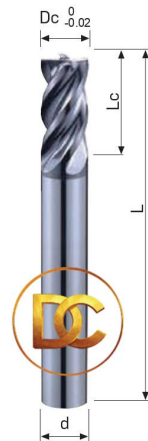
Work Material

P	GR1	碳鋼 Carbon Steel	●
	GR2	低合金鋼 <24HRC Low-alloyed Steel	●
	GR3	高合金鋼 <30HRC Hi-alloyed Steel	●
H	GR4	硬化鋼 30-38HRC Hardened Steel	●
	GR5	硬化鋼 38-48HRC Hardened Steel	●
	GR6	硬化鋼 48-56HRC Hardened Steel	●
	GR7	硬化鋼 56-68HRC Hardened Steel	●
M	GR8	不銹鋼 Stainless Steel	●
K	GR9	鑄鐵 Cast Iron	●
N	GR10	鋁 Aluminium	○
	GR11	銅 Copper	○
	GR12	塑膠 Plastics	○
	GR13	複合材料 FRP CFRP Composite Material	○
S	GR14	石墨 Graphite	○
	GR15	鈦合金 Titanium	○
	GR16	鎳 Nickel	○
	GR17	耐熱鋼 Heat-resistant Steel	○

CÔNG TY TNHH TM DV SX DAI CHI

WWW.DAICHIJP.COM

Code No. E14I-2.0HX-Dc				
Dc 0 -0.02	Lc mm	L mm	d h6	AlTiCrN E14I-2.0HX
1	2	50	4	●
1.5	3	50	4	●
2	4	50	4	●
2.5	5	50	4	●
3	6	50	6	●
3.5	7	50	6	●
4	8	50	6	●
4.5	9	50	6	●
5	10	50	6	●
5.5	11	50	6	●
6	12	50	6	●
8	16	65	8	●
10	20	75	10	●
12	24	80	12	●
16	32	100	16	●
20	40	120	20	●



CÔNG TY TNHH TM DV SX DAI CHI

WWW.DAICHIJP.COM

Code No. E14I-3.0HX-Dc									
Dc 0 -0.02	Lc mm	L mm	d h6	AlTiCrN E14I-3.0HX	Dc 0 -0.02	Lc mm	L mm	d h6	AlTiCrN E14I-3.0HX
1	3	50	4	●	10	30	75	10	●
1.5	4.5	50	4	●	11	33	80	12	●
2	6	50	4	●	12	36	80	12	●
2.5	7.5	50	4	●	13	39	100	16	●
3	9	50	6	●	14	42	100	16	●
3.5	10.5	50	6	●	15	45	100	16	●
4	12	50	6	●	16	48	100	16	●
4.5	13.5	50	6	●	17	51	120	20	●
5	15	50	6	●	18	54	120	20	●
5.5	16.5	50	6	●	20	60	120	20	●
6	18	50	6	●	25	75	150	25	●
7	21	65	8	●					
8	24	65	8	●					
9	27	75	10	●					



BẢNG BIỂU THỊ ĐIỀU KIỆN CẮT

E141-1.5HX / 2.0HX / 3.0HX 切削條件參考表

CÔNG TY TNHH TM DV SX DAI CHI
WWW.DAICHJP.COM

Recommended Milling Conditions

TEL:+84(0)28 6251 5050

E141-1.5HX / 2.0HX / Slotting 溝切削

被削材 Work Material		GR.1 碳鋼 Carbon Steel		GR.2 低合金鋼 Low-alloyed Steel (~24HRC)		GR.3 高合金鋼 Hi-alloyed Steel (~30HRC)		GR.4 硬化鋼 Hardened Steel (30~38HRC)		GR.5 硬化鋼 Hardened Steel (38~48HRC)		GR.8 不鏽鋼 Stainless Steel		GR.9 鑄鐵 Cast Iron		GR.15 鈦合金 Titanium	
切削速度 Vc m/min		120		120		80		65		60		65		120		30	
型號 Code No.	刃徑 Dc	RPM 迴轉速度 (min-l)	Feed 進給速度 (mm/min)	RPM 迴轉速度 (min-l)	Feed 進給速度 (mm/min)	RPM 迴轉速度 (min-l)	Feed 進給速度 (mm/min)	RPM 迴轉速度 (min-l)	Feed 進給速度 (mm/min)	RPM 迴轉速度 (min-l)	Feed 進給速度 (mm/min)	RPM 迴轉速度 (min-l)	Feed 進給速度 (mm/min)	RPM 迴轉速度 (min-l)	Feed 進給速度 (mm/min)	RPM 迴轉速度 (min-l)	Feed 進給速度 (mm/min)
E141-1.5HX/2.0HX-1	1	31,800	200	31,800	200	25,000	180	19,750	150	19,000	85	19,750	150	31,800	200	7,100	50
E141-1.5HX/2.0HX-1.5	1.5	21,200	200	21,200	200	16,500	180	13,000	150	12,700	90	13,000	150	21,200	200	5,100	80
E141-1.5HX/2.0HX-2	2	15,900	220	15,900	220	12,420	180	9,850	150	9,550	90	9,850	150	15,900	220	4,000	100
E141-1.5HX/2.0HX-2.5	2.5	12,700	330	12,700	330	9,930	220	7,900	175	7,600	90	7,900	175	12,700	330	3,200	100
E141-1.5HX/2.0HX-3	3	10,600	600	10,600	600	8,280	430	6,550	290	6,400	105	6,550	290	10,600	600	3,200	130
E141-1.5HX/2.0HX-3.5	3.5	8,470	615	8,470	615	6,600	465	5,250	305	5,100	110	5,250	305	8,470	615	2,800	140
E141-1.5HX/2.0HX-4	4	6,350	635	6,350	635	4,950	500	3,950	325	3,800	120	3,950	325	6,350	635	2,400	150
E141-1.5HX/2.0HX-4.5	4.5	5,450	705	5,450	705	4,250	510	3,370	335	3,260	120	3,370	335	5,450	705	2,200	155
E141-1.5HX/2.0HX-5	5	4,550	775	4,550	775	3,550	525	2,800	348	2,730	125	2,800	348	4,550	775	2,000	160
E141-1.5HX/2.0HX-5.5	5.5	4,040	775	4,040	775	3,160	510	2,500	330	2,400	125	2,500	330	4,040	775	1,800	150
E141-1.5HX/2.0HX-6	6	3,540	775	3,540	775	2,760	500	2,200	313	2,100	125	2,200	313	3,540	775	1,600	145
E141-1.5HX/2.0HX-8	8	3,185	650	3,185	650	2,480	500	1,975	313	1,900	125	1,975	313	3,185	650	1,200	120
E141-1.5HX/2.0HX-10	10	3,650	670	3,650	670	2,070	490	1,645	288	1,595	120	1,645	288	3,650	670	1,000	145
E141-1.5HX/2.0HX-12	12	2,275	560	2,275	560	1,770	460	1,410	275	1,365	120	1,410	275	2,275	560	800	150
E141-1.5HX/2.0HX-16	16	1,990	660	1,990	660	1,550	420	1,230	240	1,190	100	1,230	240	1,990	660	600	150
E141-1.5HX/2.0HX-20	20	1,590	500	1,590	500	1,240	360	985	200	950	90	985	200	1,590	500	480	130
切入深度 (mm)		ap:0.5D		ap:0.5D		ap:0.5D		ap:0.5D		ap:0.05D		ap:0.5D		ap:0.5D		ap:0.05D	

E141-3.0HX / Side Milling 側面切削

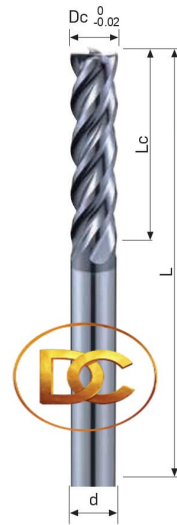
WWW.DAICHJP.COM

TEL:+84(0)28 6251 5050

被削材 Work Material		GR.1 碳鋼 Carbon Steel		GR.2 低合金鋼 Low-alloyed Steel (~24HRC)		GR.3 高合金鋼 Hi-alloyed Steel (~30HRC)		GR.4 硬化鋼 Hardened Steel (30~38HRC)		GR.5 硬化鋼 Hardened Steel (38~48HRC)		GR.8 不鏽鋼 Stainless Steel		GR.9 鑄鐵 Cast Iron		GR.15 鈦合金 Titanium	
切削速度 Vc m/min		120		120		80		65		60		65		120		30	
型號 Code No.	刃徑 Dc	RPM 迴轉速度 (min-l)	Feed 進給速度 (mm/min)	RPM 迴轉速度 (min-l)	Feed 進給速度 (mm/min)	RPM 迴轉速度 (min-l)	Feed 進給速度 (mm/min)	RPM 迴轉速度 (min-l)	Feed 進給速度 (mm/min)	RPM 迴轉速度 (min-l)	Feed 進給速度 (mm/min)	RPM 迴轉速度 (min-l)	Feed 進給速度 (mm/min)	RPM 迴轉速度 (min-l)	Feed 進給速度 (mm/min)	RPM 迴轉速度 (min-l)	Feed 進給速度 (mm/min)
E141-3.0HX-1	1	31,800	240	31,800	240	25,000	210	19,750	180	19,000	85	19,750	180	31,800	240	7,100	50
E141-3.0HX-1.5	1.5	21,200	245	21,200	245	16,500	210	13,000	180	12,700	90	13,000	180	21,200	245	5,100	100
E141-3.0HX-2	2	15,900	245	15,900	245	12,420	210	9,850	180	9,550	90	9,850	180	15,900	245	4,000	120
E141-3.0HX-2.5	2.5	12,700	370	12,700	370	9,930	300	7,900	275	7,600	90	7,900	275	12,700	370	3,200	150
E141-3.0HX-3	3	10,600	683	10,600	683	8,280	530	6,550	389	6,400	105	6,550	389	10,600	683	3,200	180
E141-3.0HX-3.5	3.5	8,470	710	8,470	710	6,600	560	5,250	400	5,100	110	5,250	400	8,470	710	2,800	180
E141-3.0HX-4	4	6,350	735	6,350	735	4,950	590	3,950	413	3,800	120	3,950	413	6,350	735	2,400	180
E141-3.0HX-4.5	4.5	5,450	805	5,450	805	4,250	605	3,370	428	3,260	120	3,370	428	5,450	805	2,200	185
E141-3.0HX-5	5	4,550	875	4,550	875	3,550	625	2,800	448	2,730	125	2,800	448	4,550	875	2,000	190
E141-3.0HX-5.5	5.5	4,040	875	4,040	875	3,160	610	2,500	428	2,400	125	2,500	428	4,040	875	1,800	190
E141-3.0HX-6	6	3,540	875	3,540	875	2,760	600	2,200	413	2,100	125	2,200	413	3,540	875	1,600	190
E141-3.0HX-8	8	3,185	770	3,185	770	2,480	600	1,975	413	1,900	125	1,975	413	3,185	770	1,200	170
E141-3.0HX-10	10	3,650	770	3,650	770	2,070	595	1,645	375	1,595	120	1,645	375	3,650	770	1,000	160
E141-3.0HX-12	12	2,275	670	2,275	670	1,770	560	1,410	350	1,365	120	1,410	350	2,275	670	800	160
E141-3.0HX-16	16	1,990	670	1,990	670	1,550	520	1,230	312	1,190	100	1,230	312	1,990	670	600	150
E141-3.0HX-20	20	1,590	535	1,590	535	1,240	415	985	277	950	90	985	277	1,590	535	480	160
E141-3.0HX-25	25	1,270	420	1,270	420	1,000	330	760	210	750	70	790	210	1,270	420	380	120
切入深度 (mm)		ap:1.5D		ap:1.5D		ap:1.5D		ap:1.5D		ap:1.5D		ap:1.5D		ap:1.5D		ap:1.5D	
		ae:0.2D		ae:0.2D		ae:0.2D		ae:0.2D		ae:0.1D		ae:0.2D		ae:0.2D		ae:0.1D	

- Please work with good rigidity / high precision facilities and collet chuck.
- Please choose proper cutting fluid.
- The cutting data is reference value only. Please adjust it according to your real working conditions.
- If RPM is lower the reference value, the Feed rate (fz) and RPM should be reduced by the same proportion.
- If vibration occurs during cutting, please reduce cutting parameter.

Code No. E14I-4.0HX-Dc				
Dc 0 -0.02	Lc mm	L mm	d h6	AlTiCrN E14I-4.0HX
1	4	50	4	●
1.5	6	50	4	●
2	8	50	4	●
2.5	10	50	4	●
3	12	50	6	●
3.5	14	50	6	●
4	16	55	6	●
4.5	18	55	6	●
5	20	60	6	●
5.5	22	65	6	●
6	24	65	6	●
8	32	90	8	●
10	40	100	10	●
12	48	110	12	●
16	64	140	16	●
20	80	160	20	●



Steel < 48HRC					
P	H	M	K	N	S
●	●	●	●	○	○

TEL:+84(0)28 6251 5050

MG Carbide		AlTiCrN HX	
38° 41°		不等 4	
75°		90°	

Type of Operation			

Work Material

P	GR1	碳鋼 Carbon Steel	●
	GR2	低合金鋼<24HRC Low-alloyed Steel	●
	GR3	高合金鋼<30HRC Hi-alloyed Steel	●
H	GR4	硬化鋼 30-38HRC Hardened Steel	●
	GR5	硬化鋼 38-48HRC Hardened Steel	●
	GR6	硬化鋼 48-56HRC Hardened Steel	●
	GR7	硬化鋼 56-68HRC Hardened Steel	●
M	GR8	不銹鋼 Stainless Steel	●
K	GR9	鑄鐵 Cast Iron	●
N	GR10	鋁 Aluminium	○
	GR11	銅 Copper	○
	GR12	塑膠 Plastics	○
	GR13	複合材料 FRP CFRP Composite Material	○
S	GR14	石墨 Graphite	○
	GR15	鈦合金 Titanium	○
	GR16	鎳 Nickel	○
	GR17	耐熱鋼 Heat-resistant Steel	○

CÔNG TY TNHH TM DV SX DAI CHI

WWW.DAICHIP.COM

TEL:+84(0)28 6251 5050

Code No. E14I-5.0HX-Dc				
Dc 0 -0.02	Lc mm	L mm	d h6	AlTiCrN E14I-5.0HX
1	5	50	4	●
1.5	7.5	50	4	●
2	10	50	4	●
2.5	12.5	50	4	●
3	15	55	6	●
3.5	17.5	60	6	●
4	20	60	6	●
4.5	22.5	65	6	●
5	25	65	6	●
5.5	27.5	75	6	●
6	30	75	6	●
8	40	90	8	●
10	50	100	10	●
12	60	110	12	●
16	80	160	16	●
20	100	200	20	●



BẢNG BIỂU THỊ ĐIỀU KIỆN CẮT

E14I-4.0HX / 5.0HX 切削條件參考表

CÔNG TY TNHH TM DV SX DAI CHI
WWW.DAICHIP.COM

Recommended Milling Conditions



TEL: +84(0)28 6251 5050

E14I-4.0HX / Side Milling 側面切削

被削材 Work Material		GR.1 碳鋼 Carbon Steel		GR.2 低合金鋼 Low-alloyed Steel (~24HRC)		GR.3 高合金鋼 Hi-alloyed Steel (~30HRC)		GR.4 硬化鋼 Hardened Steel (30~38HRC)		GR.5 硬化鋼 Hardened Steel (38~48HRC)		GR.8 不鏽鋼 Stainless Steel		GR.9 鑄鐵 Cast Iron		GR.15 鈦合金 Titanium	
切削速度 Vc m/min		90		90		60		50		45		50		90		23	
型號 Code No.	刃徑 Dc	RPM 迴轉速度 (min-1)	Feed 進給速度 (mm/min)	RPM 迴轉速度 (min-1)	Feed 進給速度 (mm/min)	RPM 迴轉速度 (min-1)	Feed 進給速度 (mm/min)	RPM 迴轉速度 (min-1)	Feed 進給速度 (mm/min)	RPM 迴轉速度 (min-1)	Feed 進給速度 (mm/min)	RPM 迴轉速度 (min-1)	Feed 進給速度 (mm/min)	RPM 迴轉速度 (min-1)	Feed 進給速度 (mm/min)	RPM 迴轉速度 (min-1)	Feed 進給速度 (mm/min)
E141-4.0HX-1	1	23,850	180	23,850	180	18,750	158	14,813	135	14,250	64	14,813	135	23,850	180	5,325	38
E141-4.0HX-1.5	1.5	15,900	184	15,900	184	12,375	158	9,750	135	9,525	68	9,750	135	15,900	184	3,825	75
E141-4.0HX-2	2	11,925	184	11,925	184	9,315	158	7,388	135	7,163	68	7,388	135	11,925	184	3,000	90
E141-4.0HX-2.5	2.5	9,525	278	9,525	278	7,448	225	5,925	206	5,700	68	5,925	206	9,525	278	2,400	113
E141-4.0HX-3	3	7,950	512	7,950	512	6,210	398	4,913	291	4,800	79	4,913	291	7,950	512	2,400	135
E141-4.0HX-3.5	3.5	6,350	532	6,350	532	4,960	420	3,930	300	3,850	85	3,930	300	6,350	532	2,100	135
E141-4.0HX-4	4	4,763	551	4,763	551	3,713	443	2,963	310	2,850	90	2,963	310	4,763	551	1,800	135
E141-4.0HX-4.5	4.5	4,080	604	4,080	604	3,180	450	2,530	323	2,447	92	2,530	323	4,080	604	1,650	139
E141-4.0HX-5	5	3,412	656	3,412	656	2,663	469	2,100	336	2,047	94	2,100	336	3,412	656	1,500	143
E141-4.0HX-5.5	5.5	3,030	656	3,030	656	2,360	460	1,875	323	1,800	94	1,875	323	3,030	656	1,350	143
E141-4.0HX-6	6	2,655	656	2,655	656	2,070	450	1,650	310	1,575	94	1,650	310	2,655	656	1,200	143
E141-4.0HX-8	8	2,389	578	2,389	578	1,860	450	1,481	310	1,425	94	1,481	310	2,389	578	900	128
E141-4.0HX-10	10	2,738	578	2,738	578	1,553	446	1,234	281	1,196	90	1,234	281	2,738	578	750	120
E141-4.0HX-12	12	1,706	503	1,706	503	1,328	420	1,058	263	1,024	90	1,058	263	1,706	503	600	120
E141-4.0HX-16	16	1,493	503	1,493	503	1,163	390	923	234	893	75	923	234	1,493	503	450	113
E141-4.0HX-20	20	1,193	401	1,193	401	930	311	739	207	713	68	739	207	1,193	401	360	120
切入深度 (mm)		ap:2.5D		ap:2.5D		ap:2.5D		ap:2.5D		ap:2.5D		ap:2.5D		ap:2.5D		ap:2.5D	
		ae:0.1D		ae:0.1D		ae:0.1D		ae:0.1D		ae:0.1D		ae:0.1D		ae:0.1D		ae:0.1D	

E14I-5.0HX / Side Milling 側面切削

被削材 Work Material		GR.1 碳鋼 Carbon Steel		GR.2 低合金鋼 Low-alloyed Steel (~24HRC)		GR.3 高合金鋼 Hi-alloyed Steel (~30HRC)		GR.4 硬化鋼 Hardened Steel (30~38HRC)		GR.5 硬化鋼 Hardened Steel (38~48HRC)		GR.8 不鏽鋼 Stainless Steel		GR.9 鑄鐵 Cast Iron		GR.15 鈦合金 Titanium	
切削速度 Vc m/min		60		60		40		33		30		33		60		16	
型號 Code No.	刃徑 Dc	RPM 迴轉速度 (min-l)	Feed 進給速度 (mm/min)	RPM 迴轉速度 (min-l)	Feed 進給速度 (mm/min)	RPM 迴轉速度 (min-l)	Feed 進給速度 (mm/min)	RPM 迴轉速度 (min-l)	Feed 進給速度 (mm/min)	RPM 迴轉速度 (min-l)	Feed 進給速度 (mm/min)	RPM 迴轉速度 (min-l)	Feed 進給速度 (mm/min)	RPM 迴轉速度 (min-l)	Feed 進給速度 (mm/min)	RPM 迴轉速度 (min-l)	Feed 進給速度 (mm/min)
E141-5.OHX-1	1	15,900	120	15,900	120	12,500	105	9,875	90	9,500	43	9,875	90	15,900	120	3,550	25
E141-5.OHX-1.5	1.5	10,600	123	10,600	123	8,250	105	6,500	90	6,350	45	6,500	90	10,600	123	2,550	50
E141-5.OHX-2	2	7,950	123	7,950	123	6,210	105	4,925	90	4,775	45	4,925	90	7,950	123	2,000	60
E141-5.OHX-2.5	2.5	6,350	185	6,350	185	4,965	150	3,950	138	3,800	45	3,950	138	6,350	185	1,600	75
E141-5.OHX-3	3	5,300	341	5,300	341	4,140	265	3,275	194	3,200	53	3,275	194	5,300	341	1,600	90
E141-5.OHX-3.5	3.5	4,230	354	4,230	354	3,300	280	2,620	200	2,550	56	2,620	200	4,230	354	1,400	90
E141-5.OHX-4	4	3,175	368	3,175	368	2,475	295	1,975	207	1,900	60	1,975	207	3,175	368	1,200	90
E141-5.OHX-4.5	4.5	2,720	400	2,720	400	2,120	305	1,680	215	1,630	60	1,680	215	2,720	400	1,100	90
E141-5.OHX-5	5	2,275	438	2,275	438	1,775	313	1,400	224	1,365	63	1,400	224	2,275	438	1,000	95
E141-5.OHX-5.5	5.5	2,020	438	2,020	438	1,570	306	1,250	215	1,200	63	1,250	215	2,020	438	900	95
E141-5.OHX-6	6	1,770	438	1,770	438	1,380	300	1,100	207	1,050	63	1,100	207	1,770	438	800	95
E141-5.OHX-8	8	1,592	385	1,592	385	1,240	300	987	207	950	63	987	207	1,592	385	600	85
E141-5.OHX-10	10	1,825	385	1,825	385	1,035	298	823	187	798	60	823	187	1,825	385	500	80
E141-5.OHX-12	12	1,137	335	1,137	335	885	280	705	175	682	60	705	175	1,137	335	400	80
E141-5.OHX-16	16	995	335	995	335	775	260	615	156	595	50	615	156	995	335	300	75
E141-5.OHX-20	20	795	268	795	268	620	208	493	138	475	45	493	138	795	268	240	80
切入深度 (mm)		ap:3.0D		ap:3.0D		ap:3.0D		ap:3.0D		ap:3.0D		ap:3.0D		ap:3.0D		ap:3.0D	
		ae:0.05D		ae:0.05D		ae:0.05D		ae:0.05D		ae:0.05D		ae:0.05D		ae:0.05D		ae:0.05D	

- Please work with good rigidity / high precision facilities and collet chuck.
- Please choose proper cutting fluid.
- The cutting data is reference value only. Please adjust it according to your real working conditions.
- If RPM is lower the reference value, the Feed rate (fz) and RPM should be reduced by the same proportion.
- If vibration occurs during cutting, please reduce cutting parameter.