

2025



# *Threading*

螺紋刀具



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**Solid Carbide Thread Mills 全鎢鋼螺紋銑刀**

Code No.	Appearance	Pitch		No. of Threads	Thread milling	Chamfering	Helical drilling	Drilling	P	M	K	N	S	H	Page
ETS	ETSN	TP	0.25~1.75	1	✓				●	●	●			○	E008
ETT	ETTN	TP	0.35~2.5	3	✓				●	●	●			○	E009
		TPI	36~10												E010
	ETTC	TP	0.45~2.5	3	✓				●	●	●			○	E009
		TPI	36~10												E010
ETTR	ETTRN	TP	0.35~2.5	3	✓				○	●	○		●	●	E011
		TPI	36~10												E012
	ETTRC	TP	0.45~2.5	3	✓				○	●	○		●	●	E011
		TPI	36~10												E012
ETL (Left hand cutting)	ETLN	TP	0.7~2.0	3	✓	✓	✓		●	●	●			○	E013
		TPI	40~11												E014
	ETLC	TP	0.5~2.0	3	✓	✓	✓		●	●	●			○	E013
		TPI	36~13												E014
ETM	ETMN	TP	1~2.5	12~24	✓				●	●	●			○	E015
		TPI	36~8												E017
	ETMC	TP	1~1.5	12~24	✓				●	●	●			○	E016
ETM□PT (BSPT)	ETMNPT	TPI	28~11	18~25	✓				●	●	●			○	E018
	ETMCPT	TPI	28~11	18~25	✓				●	●	●			○	E018
ETM□NT (NPT)	ETMNNT	TPI	27~8	10~15	✓				●	●	●			○	E019
	ETMCNT	TPI	27~8	10~15	✓				●	●	●			○	E019
ETD	ETDN	TP	0.8~1.5	11~12	✓	✓		✓			●	●			E020

**Modular Carbide Thread Mills** 模組化螺紋銑刀

Code No.	Appearance	Name	Pitch		No. of Threads	P	M	K	N	S	H	Page
						P	M	K	N	S	H	
ETMMM		Modular Thread Mills - ISO M 模組化螺紋銑刀 - ISO M	TP	0.5~3	5 ~ 16	●	●	●	○	●	●	E022












**Indexable Thread Milling Tools** 捨棄式螺紋銑刀

Code No.	Appearance	Name	Type	Pitch		P	M	K	N	S	H	Page
						P	M	K	N	S	H	
ICXMT		Thread Milling Tools 捨棄式螺紋銑刀	1 Flute			Use Insert : LNEX14 / LNEX21 / LNHT14 / LNHT21						E023
			2 Flute									
ILNEX		Thread Milling Insert 螺紋銑刀片	LNEX14 - ISO M	TP	0.75~2.5	●	○	●	○	●		E025
			LNEX14 - UN	TPI	10~32	●	○	●	○	●		E026
	LNEX21 - ISO M		TP	1~3	●	○	●	○	●		E025	
	LNEX21 - UN		TPI	10~24	●	○	●	○	●		E026	
ILNHT		Thread Milling Insert 螺紋銑刀片	LNHT14 - BSPT	TPI	14~19	●	○	●	○	●		E027
			LNHT14 - NPT	TPI	14~18	●	○	●	○	●		
	LNHT21 - BSPT		TPI	11~14	●	○	●	○	●			
	LNHT21 - NPT		TPI	11.5~14	●	○	●	○	●			

**Solid Carbide Thread Turning Bars** 全鎢鋼內徑螺紋車刀

Code No.	Appearance	Name	Min. Bore Dia.	Page
DLTSR		Carbide Internal Thread (ISO Metric 60°) 全鎢鋼內徑螺紋車刀 (ISO Metric 60°)	3.2 ~ 6.1	E028
DLTMR		Carbide Internal Thread (Partial Profile 60°) 全鎢鋼內徑螺紋車刀 (泛用牙 60°)	2.6 ~ 10.0	E029
DLS		Sleeves 內徑擔刀套筒	-	E030

Thread Turning Inserts 螺紋車刀片

Code No.	Thread Standard	Insert Sharp	Thread Pitch	Applicable Holder	Page															
I11 I16 I22	Partial Profile 60°	 Regular Type	<table border="1"> <tr> <td></td> <td>TP (mm)</td> <td>TPI</td> </tr> <tr> <td>A</td> <td>0.5 ~ 1.5</td> <td>48 ~ 16</td> </tr> <tr> <td>AG</td> <td>0.5 ~ 3.0</td> <td>48 ~ 8</td> </tr> <tr> <td>G</td> <td>1.75 ~ 3.0</td> <td>14 ~ 8</td> </tr> <tr> <td>N</td> <td>3.5 ~ 5.0</td> <td>7 ~ 5</td> </tr> </table>		TP (mm)	TPI	A	0.5 ~ 1.5	48 ~ 16	AG	0.5 ~ 3.0	48 ~ 8	G	1.75 ~ 3.0	14 ~ 8	N	3.5 ~ 5.0	7 ~ 5	SN... SE... SKE...	E032
		TP (mm)	TPI																	
A		0.5 ~ 1.5	48 ~ 16																	
AG	0.5 ~ 3.0	48 ~ 8																		
G	1.75 ~ 3.0	14 ~ 8																		
N	3.5 ~ 5.0	7 ~ 5																		
I22	 U Type	<table border="1"> <tr> <td></td> <td>TP (mm)</td> <td>TPI</td> </tr> <tr> <td>U</td> <td>5.5 ~ 8.0</td> <td>4.5 ~ 3.25</td> </tr> </table>		TP (mm)	TPI	U	5.5 ~ 8.0	4.5 ~ 3.25	-											
	TP (mm)	TPI																		
U	5.5 ~ 8.0	4.5 ~ 3.25																		
I16	 Vertical Type	<table border="1"> <tr> <td></td> <td>TP (mm)</td> <td>TPI</td> </tr> <tr> <td>A</td> <td>0.5 ~ 1.5</td> <td>48 ~ 16</td> </tr> <tr> <td>AG</td> <td>0.5 ~ 2.5</td> <td>48 ~ 10</td> </tr> <tr> <td>G</td> <td>1.75 ~ 2.5</td> <td>14 ~ 10</td> </tr> </table>		TP (mm)	TPI	A	0.5 ~ 1.5	48 ~ 16	AG	0.5 ~ 2.5	48 ~ 10	G	1.75 ~ 2.5	14 ~ 10	KTTX...	E034				
	TP (mm)	TPI																		
A	0.5 ~ 1.5	48 ~ 16																		
AG	0.5 ~ 2.5	48 ~ 10																		
G	1.75 ~ 2.5	14 ~ 10																		
I11 I16 I22	Partial Profile 55°	 Regular Type	<table border="1"> <tr> <td></td> <td>TP (mm)</td> <td>TPI</td> </tr> <tr> <td>A</td> <td>0.5 ~ 1.5</td> <td>48 ~ 16</td> </tr> <tr> <td>AG</td> <td>0.5 ~ 3.0</td> <td>48 ~ 8</td> </tr> <tr> <td>G</td> <td>1.75 ~ 3.0</td> <td>14 ~ 8</td> </tr> <tr> <td>N</td> <td>3.5 ~ 5.0</td> <td>7 ~ 5</td> </tr> </table>		TP (mm)	TPI	A	0.5 ~ 1.5	48 ~ 16	AG	0.5 ~ 3.0	48 ~ 8	G	1.75 ~ 3.0	14 ~ 8	N	3.5 ~ 5.0	7 ~ 5	SN... SE... SKE...	E035
		TP (mm)	TPI																	
A		0.5 ~ 1.5	48 ~ 16																	
AG	0.5 ~ 3.0	48 ~ 8																		
G	1.75 ~ 3.0	14 ~ 8																		
N	3.5 ~ 5.0	7 ~ 5																		
I22	 U Type	<table border="1"> <tr> <td></td> <td>TP (mm)</td> <td>TPI</td> </tr> <tr> <td>U</td> <td>5.5 ~ 8.0</td> <td>4.5 ~ 3.25</td> </tr> </table>		TP (mm)	TPI	U	5.5 ~ 8.0	4.5 ~ 3.25	-											
	TP (mm)	TPI																		
U	5.5 ~ 8.0	4.5 ~ 3.25																		
I16	 Vertical Type	<table border="1"> <tr> <td></td> <td>TP (mm)</td> <td>TPI</td> </tr> <tr> <td>A</td> <td>0.5 ~ 1.5</td> <td>48 ~ 16</td> </tr> <tr> <td>AG</td> <td>0.5 ~ 2.5</td> <td>48 ~ 10</td> </tr> <tr> <td>G</td> <td>1.75 ~ 2.5</td> <td>14 ~ 10</td> </tr> </table>		TP (mm)	TPI	A	0.5 ~ 1.5	48 ~ 16	AG	0.5 ~ 2.5	48 ~ 10	G	1.75 ~ 2.5	14 ~ 10	KTTX...	E037				
	TP (mm)	TPI																		
A	0.5 ~ 1.5	48 ~ 16																		
AG	0.5 ~ 2.5	48 ~ 10																		
G	1.75 ~ 2.5	14 ~ 10																		
I11 I16 I22	ISO 60°	 Regular Type	<table border="1"> <tr> <td></td> <td>TP (mm)</td> </tr> <tr> <td></td> <td>0.35 ~ 5.0</td> </tr> </table>		TP (mm)		0.35 ~ 5.0	SN... SE... SKE...	E038											
		TP (mm)																		
		0.35 ~ 5.0																		
I22	 U Type	<table border="1"> <tr> <td></td> <td>TP (mm)</td> </tr> <tr> <td></td> <td>5.5 ~ 6.0</td> </tr> </table>		TP (mm)		5.5 ~ 6.0	-													
	TP (mm)																			
	5.5 ~ 6.0																			
I16	 Vertical Type	<table border="1"> <tr> <td></td> <td>TP (mm)</td> </tr> <tr> <td></td> <td>0.5 ~ 2.5</td> </tr> </table>		TP (mm)		0.5 ~ 2.5	KTTX...	E042												
	TP (mm)																			
	0.5 ~ 2.5																			
I11 I16 I22	UN 60°	 Regular Type	<table border="1"> <tr> <td></td> <td>TPI</td> </tr> <tr> <td></td> <td>32 ~ 5</td> </tr> </table>		TPI		32 ~ 5	SN... SE... SKE...	E043											
		TPI																		
	32 ~ 5																			
I22	 Vertical Type	<table border="1"> <tr> <td></td> <td>TPI</td> </tr> <tr> <td></td> <td>32 ~ 10</td> </tr> </table>		TPI		32 ~ 10	KTTX...	E047												
	TPI																			
	32 ~ 10																			

Thread Turning Holders 螺紋車刀桿

Code No.	Holder Sharp	Type	Applicable Insert	Min. Bore Dia.	Page
SN <sup>R/L</sup> ...CL		Internal	16I <sup>R/L</sup> 22I <sup>R/L</sup> (Regular Type Insert)	24mm~40mm	E048
SN <sup>R/L</sup> ...			16I <sup>R/L</sup> 22I <sup>R/L</sup> (Regular Type Insert)	13mm~40mm	E049
SE <sup>R/L</sup> ...CL		External	16E <sup>R/L</sup> (Regular Type Insert)	10mm~32mm	E050
SE <sup>R/L</sup> ...			16E <sup>R/L</sup> 22E <sup>R/L</sup> (Regular Type Insert)	12mm~32mm	E050
SKE <sup>R/L</sup> ...			16E <sup>R/L</sup> (Regular Type Insert)	12mm~25mm	E051
KTTX <sup>R/L</sup> ...			16VE <sup>R/L</sup> (Vertical Type Insert)	10mm~25mm	E051

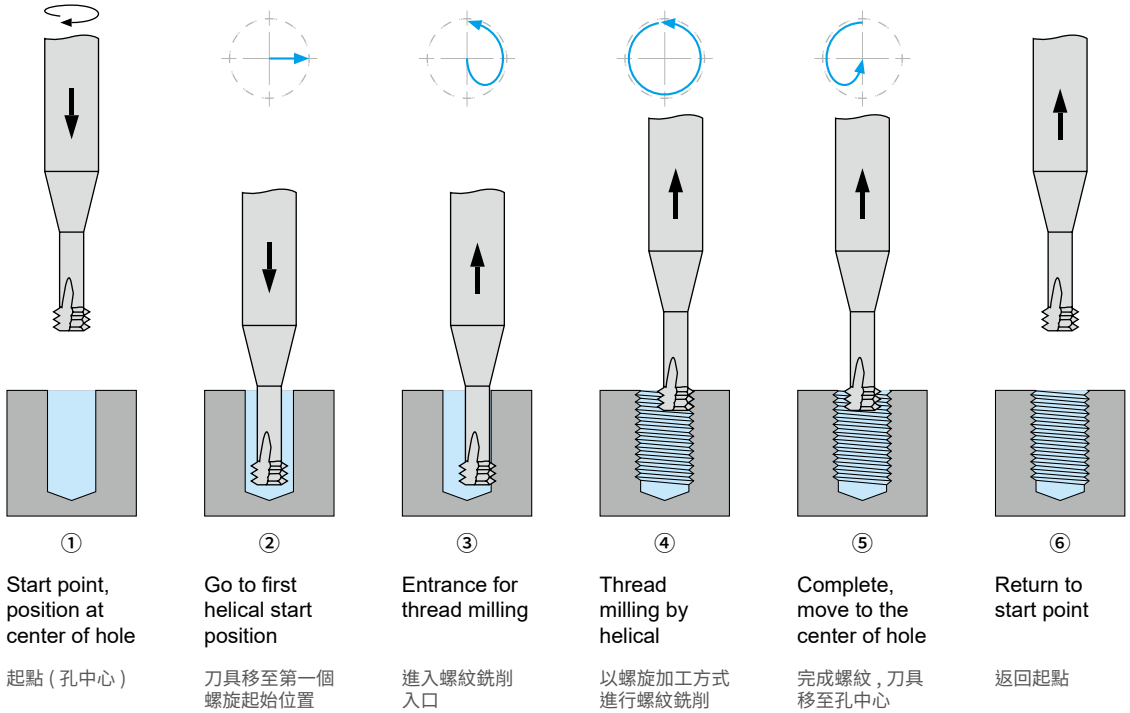
Tapping Tools 絲攻

Code No.	Appearance	Name	Thread Size	P	M	K	N	S	H	Page
TKSNM		Solid Carbide Spiral Fluted Taps 全鎢鋼螺旋絲攻	M5 ~ M12	○		●	●			E055
TKSCM		Solid Carbide Spiral Fluted Taps with Internal Coolant 全鎢鋼內冷螺旋絲攻	M5 ~ M12	○		●	●			E056
TKTNM		Solid Carbide Straight Fluted Taps 全鎢鋼直刃絲攻	M3 ~ M16			●	●			E057
TKTCM		Solid Carbide Straight Fluted Taps with Internal Coolant 全鎢鋼內冷直刃絲攻	M3 ~ M16			●	●			E058
THTNM		Solid Carbide Straight Fluted Taps 全鎢鋼直刃絲攻	M3 ~ M16						●	E059
THTCM		Solid Carbide Straight Fluted Taps with Internal Coolant 全鎢鋼內冷直刃絲攻	M3 ~ M16						●	E060
TNFNM		Solid Carbide Forming Taps 全鎢鋼無屑絲攻	M1 ~ M6				●			E061

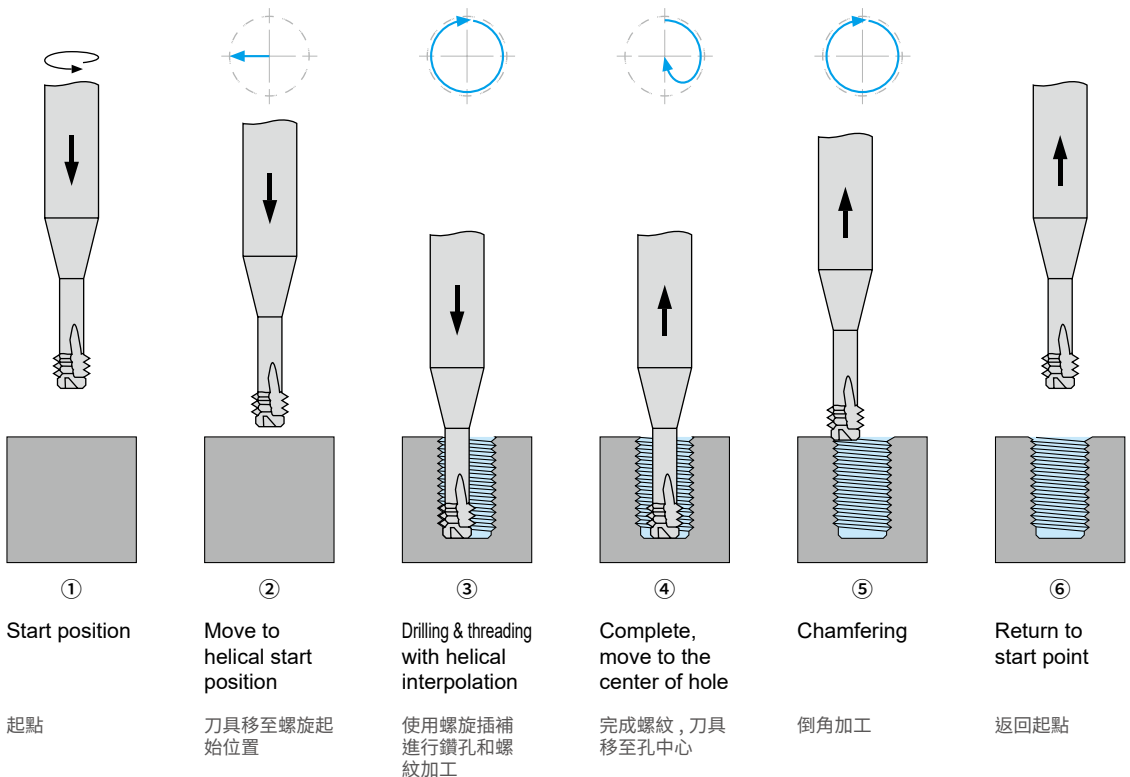
Thread Mill Cutting Method

加工方法

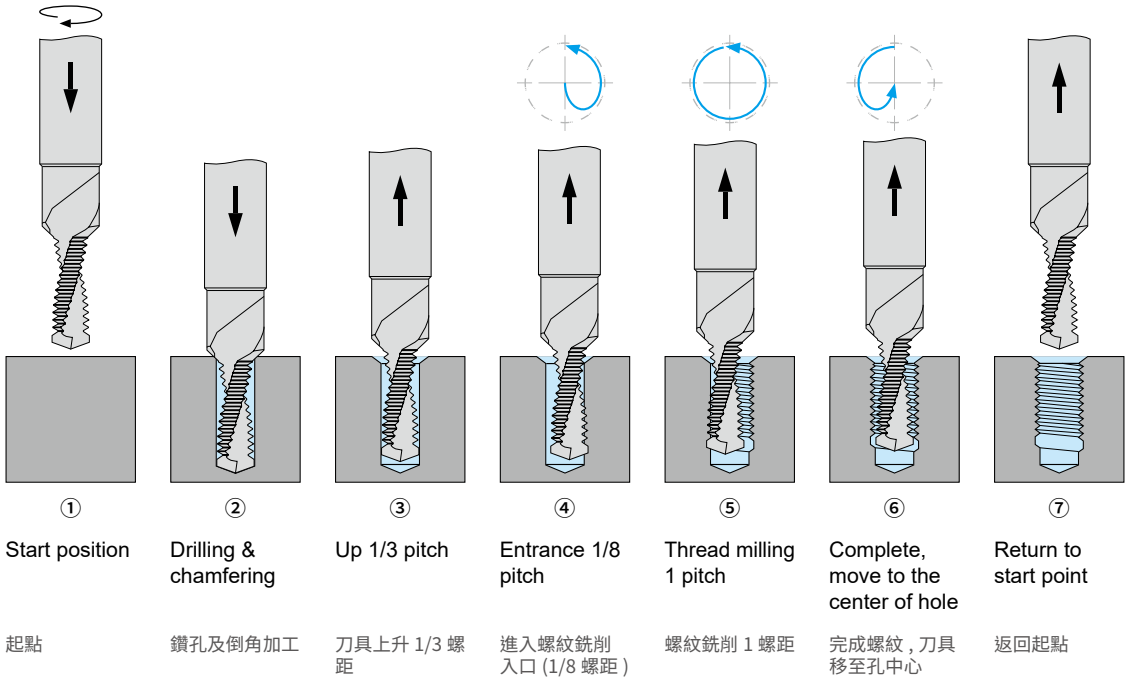
ETS, ETT, ETTR, ETM Cutting Method



ETL Cutting Method



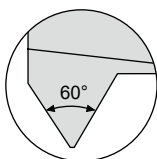
ETD Cutting Method



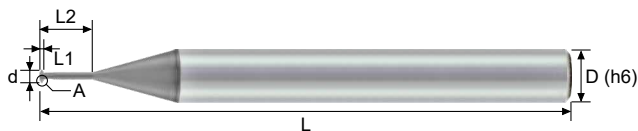


**Solid Carbide Thread Mills - ISO M** 全鎢鋼螺紋銑刀 - ISO M

**ETSNM (ISO M)**



Detail A



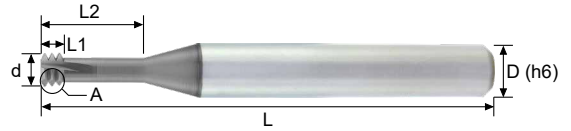
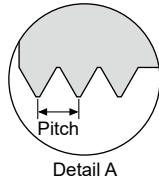
Order No.	Thread Size	Dia. (d)	Pitch	CL (L1)	No. of Threads	EFF-L (L2)	OAL (L)	Shank (D)	Flutes (z)
ETSNM30072025A	M1 × 0.25	0.72	0.25	0.25	1	2.75	42	4	3
ETSNM30091025A	M1.2 × 0.25	0.91	0.25	0.25	1	3.25	42	4	3
ETSNM30105030A	M1.4 × 0.3	1.05	0.30	0.30	1	3.80	42	4	3
ETSNM30120035A	M1.6 × 0.35	1.20	0.35	0.35	1	4.35	42	4	3
ETSNM30130035A	M1.7~M1.8 × 0.35	1.30	0.35	0.35	1	4.85	42	4	3
ETSNM30152040A	M2 × 0.4	1.52	0.40	0.40	1	6	42	4	3
ETSNM30240050A	M3 × 0.5	2.40	0.50	0.50	1	9	42	4	3
ETSNM30315070A	M4 × 0.7	3.15	0.70	0.70	1	12	50	4	3
ETSNM40480100A	M6 × 1	4.80	1.00	1.00	1	18	60	6	4
ETSNM40590125A	M8 × 1.25	5.90	1.25	1.25	1	25	75	6	4
ETSNM50820150A	M10 × 1.5	8.20	1.50	1.50	1	32	75	10	5
ETSNM50990175A	M12 × 1.75	9.90	1.75	1.75	1	38	75	10	5

※Customized specification available.

Solid Carbide Thread Mills - ISO M

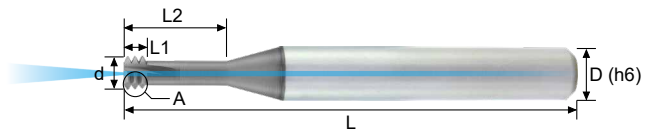
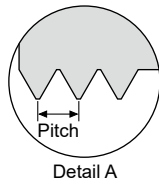
全鎢鋼螺紋銑刀 - ISO M

ETTNM (ISO M)



Order No.	Thread Size	Dia. (d)	Pitch	CL (L1)	No. of Threads	EFF-L (L2)	OAL (L)	Shank (D)	Flutes (z)
ETTNM30135035A	M1.8 × 0.35	1.35	0.35	1.05	3	4.0	50	6	3
ETTNM30150040A	M2 × 0.4	1.5	0.40	1.20	3	4.4	50	6	3
ETTNM30190045A	M2.5 × 0.45	1.9	0.45	1.35	3	5.6	50	6	3
ETTNM30240050A	M3 × 0.5	2.4	0.50	1.50	3	6.5	50	6	3
ETTNM30310070A	M4 × 0.7	3.1	0.70	2.10	3	8.7	50	6	3
ETTNM30400080A	M5 × 0.8	4.0	0.80	2.40	3	10.8	50	6	3
ETTNM30480100A	M6 × 1	4.8	1.00	3.00	3	12.5	50	6	3
ETTNM40650125A	M8 × 1.25	6.5	1.25	3.75	3	16.6	60	8	4
ETTNM40820150A	M10 × 1.5	8.2	1.50	4.50	3	20.8	75	10	4
ETTNM40990175A	M12 × 1.75	9.9	1.75	5.25	3	25.0	75	10	4
ETTNM41190200A	M16 × 2	11.9	2.00	6.00	3	33.0	75	12	4
ETTNM41590250A	M20 × 2.5	15.9	2.50	7.50	3	41.3	100	16	4

ETTCM (ISO M with Internal Coolant)



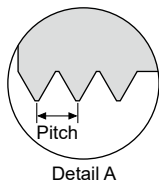
Order No.	Thread Size	Dia. (d)	Pitch	CL (L1)	No. of Threads	EFF-L (L2)	OAL (L)	Shank (D)	Flutes (z)
ETTCM30190045A	M2.5 × 0.45	1.9	0.45	1.35	3	5.6	50	6	3
ETTCM30240050A	M3 × 0.5	2.4	0.50	1.50	3	6.5	50	6	3
ETTCM30310070A	M4 × 0.7	3.1	0.70	2.10	3	8.7	50	6	3
ETTCM30400080A	M5 × 0.8	4.0	0.80	2.40	3	10.8	50	6	3
ETTCM30480100A	M6 × 1	4.8	1.00	3.00	3	12.5	50	6	3
ETTCM40650125A	M8 × 1.25	6.5	1.25	3.75	3	16.6	60	8	4
ETTCM40820150A	M10 × 1.5	8.2	1.50	4.50	3	20.8	75	10	4
ETTCM40990175A	M12 × 1.75	9.9	1.75	5.25	3	25.0	75	10	4
ETTCM41190200A	M16 × 2	11.9	2.00	6.00	3	33.0	75	12	4
ETTCM41590250A	M20 × 2.5	15.9	2.50	7.50	3	41.3	100	16	4

Threading

Solid Carbide Thread Mills - UN

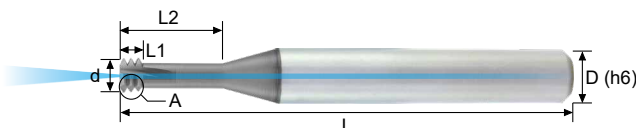
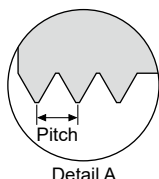
全鎢鋼螺紋銑刀 - UN

ETTNU (UN)



Order No.	Thread Size		Dia. (d)	TPI	CL (L1)	No. of Threads	EFF-L (L2)	OAL (L)	Shank (D)	Flutes (z)
	UNC	UNF								
ETTNU30331036A		8-36UNF	3.31	36	2.12	3	8.8	50	4	3
ETTNU30257032A	6-32UNC		2.57	32	2.38	3	7.3	50	4	3
ETTNU30322032A	8-32UNC	10-32UNF	3.22	32	2.38	3	10.1	60	6	3
ETTNU30520028A		1/4-28UNF	5.2	28	2.72	3	14	60	6	3
ETTNU40355024A	10-24UNC		3.55	24	3.18	3	10.4	60	6	4
ETTNU40665024A		5/16-24UNF	6.65	24	3.18	3	16.7	60	8	4
ETTNU40485020A	1/4-20UNC	7/16-20UNF	4.85	20	3.81	3	13.7	60	6	4
ETTNU40795020A		7/16-20UNF	7.95	20	3.81	3	24	60	8	4
ETTNU40595018A	5/16-18UNC		5.95	18	4.23	3	16.5	60	6	4
ETTNU40690016A	3/8-16UNC		6.9	16	4.76	3	21	60	8	4
ETTNU40795014A	7/16-14UNC		7.95	14	5.44	3	23.5	60	8	4
ETTNU40930013A	1/2-13UNC		9.3	13	5.86	3	27	80	10	4
ETTNU40995012A	9/16-12UNC		9.95	12	6.35	3	29	80	10	4
ETTNU41150011A	5/8-11UNC		11.5	11	6.93	3	33	80	12	4
ETTNU41440010A	3/4-10UNC		14.4	10	7.62	3	42	110	16	4

ETTCU (UN with Internal Coolant)



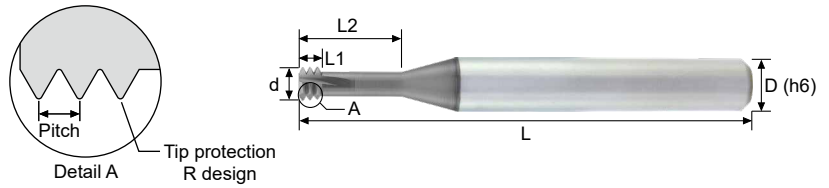
Order No.	Thread Size		Dia. (d)	TPI	CL (L1)	No. of Threads	EFF-L (L2)	OAL (L)	Shank (D)	Flutes (z)
	UNC	UNF								
ETTCU30331036A		8-36UNF	3.31	36	2.12	3	8.8	50	4	3
ETTCU30257032A	6-32UNC		2.57	32	2.38	3	7.3	50	4	3
ETTCU30322032A	8-32UNC	10-32UNF	3.22	32	2.38	3	10.1	60	6	3
ETTCU30520028A		1/4-28UNF	5.2	28	2.72	3	14	60	6	3
ETTCU40355024A	10-24UNC		3.55	24	3.18	3	10.4	60	6	4
ETTCU40665024A		5/16-24UNF	6.65	24	3.18	3	16.7	60	8	4
ETTCU40485020A	1/4-20UNC	7/16-20UNF	4.85	20	3.81	3	13.7	60	6	4
ETTCU40795020A		7/16-20UNF	7.95	20	3.81	3	24	60	8	4
ETTCU40595018A	5/16-18UNC		5.95	18	4.23	3	16.5	60	6	4
ETTCU40690016A	3/8-16UNC		6.9	16	4.76	3	21	60	8	4
ETTCU40795014A	7/16-14UNC		7.95	14	5.44	3	23.5	60	8	4
ETTCU40930013A	1/2-13UNC		9.3	13	5.86	3	27	80	10	4
ETTCU40995012A	9/16-12UNC		9.95	12	6.35	3	29	80	10	4
ETTCU41150011A	5/8-11UNC		11.5	11	6.93	3	33	80	12	4
ETTCU41440010A	3/4-10UNC		14.4	10	7.62	3	42	110	16	4

※ Customized specification available.

Solid Carbide Thread Mills - ISO M

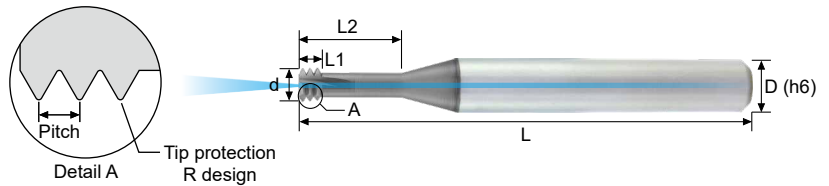
全鎢鋼螺紋銑刀 - ISO M

ETTRNM (ISO M)



Order No.	Thread Size	Dia. (d)	Pitch	CL (L1)	No. of Threads	EFF-L (L2)	OAL (L)	Shank (D)	Flutes (z)
ETTRNM30135035A	M1.8 × 0.35	1.35	0.35	1.05	3	4.0	50	6	3
ETTRNM30150040A	M2 × 0.4	1.5	0.40	1.20	3	4.4	50	6	3
ETTRNM30190045A	M2.5 × 0.45	1.9	0.45	1.35	3	5.6	50	6	3
ETTRNM30240050A	M3 × 0.5	2.4	0.50	1.50	3	6.5	50	6	3
ETTRNM30310070A	M4 × 0.7	3.1	0.70	2.10	3	8.7	50	6	3
ETTRNM30400080A	M5 × 0.8	4.0	0.80	2.40	3	10.8	50	6	3
ETTRNM30480100A	M6 × 1	4.8	1.00	3.00	3	12.5	50	6	3
ETTRNM40650125A	M8 × 1.25	6.5	1.25	3.75	3	16.6	60	8	4
ETTRNM40820150A	M10 × 1.5	8.2	1.50	4.50	3	20.8	75	10	4
ETTRNM40990175A	M12 × 1.75	9.9	1.75	5.25	3	25.0	75	10	4
ETTRNM41190200A	M16 × 2	11.9	2.00	6.00	3	33.0	75	12	4
ETTRNM41590250A	M20 × 2.5	15.9	2.50	7.50	3	41.3	100	16	4

ETTRCM (ISO M with Internal Coolant)



Order No.	Thread Size	Dia. (d)	Pitch	CL (L1)	No. of Threads	EFF-L (L2)	OAL (L)	Shank (D)	Flutes (z)
ETTRCM30190045A	M2.5 × 0.45	1.9	0.45	1.35	3	5.6	50	6	3
ETTRCM30240050A	M3 × 0.5	2.4	0.50	1.50	3	6.5	50	6	3
ETTRCM30310070A	M4 × 0.7	3.1	0.70	2.10	3	8.7	50	6	3
ETTRCM30400080A	M5 × 0.8	4.0	0.80	2.40	3	10.8	50	6	3
ETTRCM30480100A	M6 × 1	4.8	1.00	3.00	3	12.5	50	6	3
ETTRCM40650125A	M8 × 1.25	6.5	1.25	3.75	3	16.6	60	8	4
ETTRCM40820150A	M10 × 1.5	8.2	1.50	4.50	3	20.8	75	10	4
ETTRCM40990175A	M12 × 1.75	9.9	1.75	5.25	3	25.0	75	10	4
ETTRCM41190200A	M16 × 2	11.9	2.00	6.00	3	33.0	75	12	4
ETTRCM41590250A	M20 × 2.5	15.9	2.50	7.50	3	41.3	100	16	4

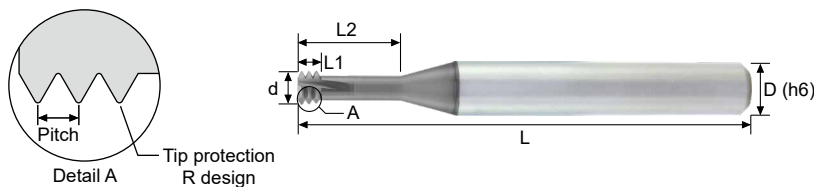
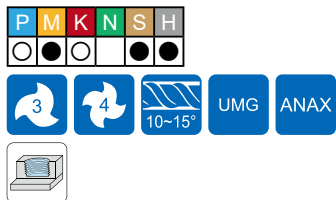
※Customized specification available.

Threading

Solid Carbide Thread Mills - UN

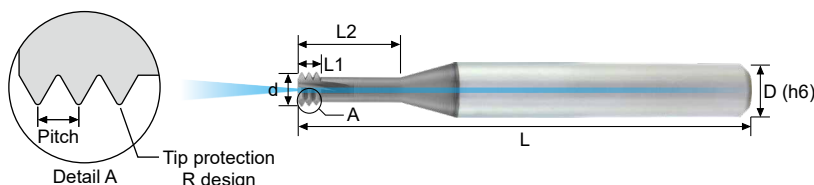
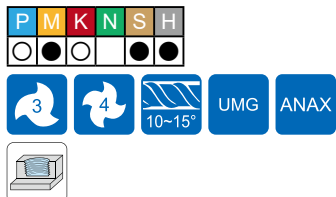
全鎢鋼螺紋銑刀 - UN

ETTRNU (UN)



Order No.	Thread Size		Dia. (d)	TPI	CL (L1)	No. of Threads	EFF-L (L2)	OAL (L)	Shank (D)	Flutes (z)
	UNC	UNF								
ETTRNU30331036A		8-36UNF	3.31	36	2.12	3	8.8	50	4	3
ETTRNU30257032A	6-32UNC		2.57	32	2.38	3	7.3	50	4	3
ETTRNU30322032A	8-32UNC	10-32UNF	3.22	32	2.38	3	10.1	60	6	3
ETTRNU30520028A		1/4-28UNF	5.2	28	2.72	3	14	60	6	3
ETTRNU40355024A	10-24UNC		3.55	24	3.18	3	10.4	60	6	4
ETTRNU40665024A		5/16-24UNF	6.65	24	3.18	3	16.7	60	8	4
ETTRNU40485020A	1/4-20UNC	7/16-20UNF	4.85	20	3.81	3	13.7	60	6	4
ETTRNU40795020A		7/16-20UNF	7.95	20	3.81	3	24	60	8	4
ETTRNU40595018A	5/16-18UNC		5.95	18	4.23	3	16.5	60	6	4
ETTRNU40690016A	3/8-16UNC		6.9	16	4.76	3	21	60	8	4
ETTRNU40795014A	7/16-14UNC		7.95	14	5.44	3	23.5	60	8	4
ETTRNU40930013A	1/2-13UNC		9.3	13	5.86	3	27	80	10	4
ETTRNU40995012A	9/16-12UNC		9.95	12	6.35	3	29	80	10	4
ETTRNU41150011A	5/8-11UNC		11.5	11	6.93	3	33	80	12	4
ETTRNU41440010A	3/4-10UNC		14.4	10	7.62	3	42	110	16	4

ETTRCU (UN with Internal Coolant)



Order No.	Thread Size		Dia. (d)	TPI	CL (L1)	No. of Threads	EFF-L (L2)	OAL (L)	Shank (D)	Flutes (z)
	UNC	UNF								
ETTRCU30331036A		8-36UNF	3.31	36	2.12	3	8.8	50	4	3
ETTRCU30257032A	6-32UNC		2.57	32	2.38	3	7.3	50	4	3
ETTRCU30322032A	8-32UNC	10-32UNF	3.22	32	2.38	3	10.1	60	6	3
ETTRCU30520028A		1/4-28UNF	5.2	28	2.72	3	14	60	6	3
ETTRCU40355024A	10-24UNC		3.55	24	3.18	3	10.4	60	6	4
ETTRCU40665024A		5/16-24UNF	6.65	24	3.18	3	16.7	60	8	4
ETTRCU40485020A	1/4-20UNC	7/16-20UNF	4.85	20	3.81	3	13.7	60	6	4
ETTRCU40795020A		7/16-20UNF	7.95	20	3.81	3	24	60	8	4
ETTRCU40595018A	5/16-18UNC		5.95	18	4.23	3	16.5	60	6	4
ETTRCU40690016A	3/8-16UNC		6.9	16	4.76	3	21	60	8	4
ETTRCU40795014A	7/16-14UNC		7.95	14	5.44	3	23.5	60	8	4
ETTRCU40930013A	1/2-13UNC		9.3	13	5.86	3	27	80	10	4
ETTRCU40995012A	9/16-12UNC		9.95	12	6.35	3	29	80	10	4
ETTRCU41150011A	5/8-11UNC		11.5	11	6.93	3	33	80	12	4
ETTRCU41440010A	3/4-10UNC		14.4	10	7.62	3	42	110	16	4

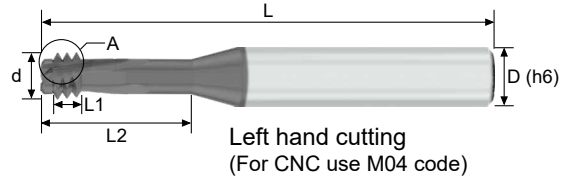
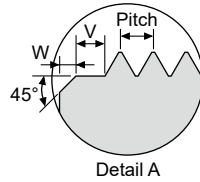
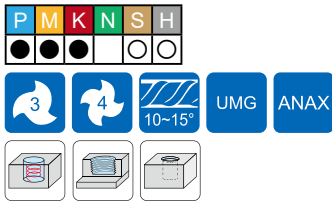
※ Customized specification available.

**Solid Carbide Chamfer Thread Mills - ISO M**

全鎢鋼倒角螺紋銑刀 - ISO M

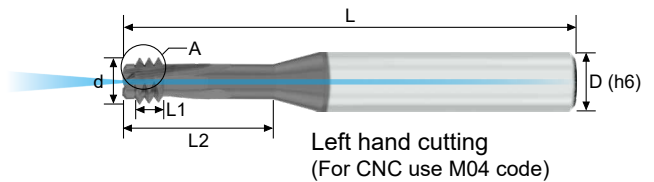
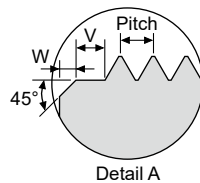
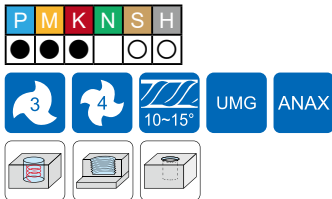
**ETLNM (ISO M)**

Suitable for : 1. Thread milling  
2. Chamfering  
3. Helical drilling



Order No.	Thread Size	Dia. (d)	Pitch	CL (L1)	No. of Threads	EFF-L (L2)	W	V	OAL (L)	Shank (D)	Flutes (z)
ETLNM30315070A	M4 × 0.7	3.15	0.7	2.10	3	11.6	0.2	0.7	58	6	3
ETLNM30400080A	M5 × 0.8	4.00	0.8	2.40	3	14.4	0.3	0.8	58	6	3
ETLNM30470100A	M6 × 1	4.70	1.0	3.00	3	14.4	0.4	1.0	64	8	3
ETLNM40610120A	M8 × 1.25	6.10	1.25	3.75	3	19.0	0.5	1.25	64	8	4
ETLNM40780150A	M10 × 1.5	7.80	1.5	4.50	3	23.6	0.6	1.5	64	8	4
ETLNM40900170A	M12 × 1.75	9.00	1.75	5.25	3	28.1	0.6	1.75	73	10	4
ETLNM41180200A	M16 × 2	11.80	2.0	6.00	3	36.6	0.6	2.0	84	12	4

**ETLCM (ISO M with Internal Coolant)**



Order No.	Thread Size	Dia. (d)	Pitch	CL (L1)	No. of Threads	EFF-L (L2)	W	V	OAL (L)	Shank (D)	Flutes (z)
ETLCM30240050A	M3 × 0.5	2.4	0.50	1.50	3	7.2	0.2	0.5	58	6	3
ETLCM30315070A	M4 × 0.7	3.15	0.70	2.10	3	11.6	0.2	0.7	58	6	3
ETLCM30400080A	M5 × 0.8	4.0	0.80	2.40	3	14.4	0.3	0.8	58	6	3
ETLCM30470100A	M6 × 1	4.7	1.00	3.00	3	14	0.4	1.0	64	8	3
ETLCM30470101A	M6 × 1	4.7	1.00	3.00	3	20.4	0.4	1.0	64	8	3
ETLCM40610120A	M8 × 1.25	6.1	1.25	3.75	3	18	0.5	1.25	64	8	4
ETLCM40610121A	M8 × 1.25	6.1	1.25	3.75	3	27	0.5	1.25	64	8	4
ETLCM40780150A	M10 × 1.5	7.8	1.50	4.50	3	23	0.6	1.5	64	8	4
ETLCM40900170A	M12 × 1.75	9.0	1.75	5.25	3	26	0.6	1.75	73	10	4
ETLCM41180200A	M16 × 2	11.8	2.00	6.00	3	35	0.6	2.0	84	12	4

※Customized specification available.

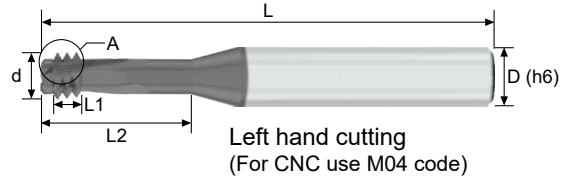
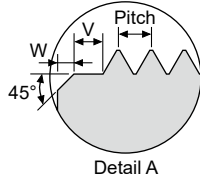
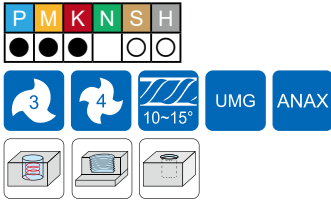
Threading

**Solid Carbide Chamfer Thread Mills - UN**

全鎢鋼倒角螺紋銑刀 - UN

**ETLNU (UN)**

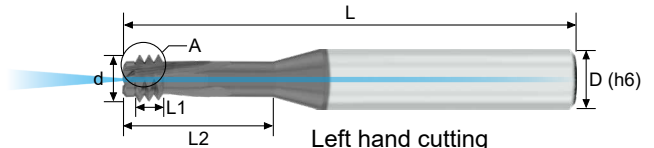
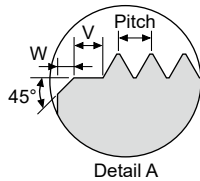
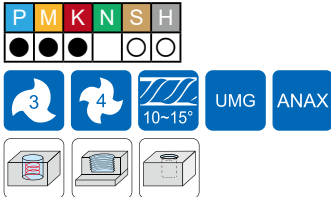
Suitable for : 1. Thread milling  
2. Chamfering  
3. Helical drilling



Left hand cutting  
(For CNC use M04 code)

Order No.	Thread Size		Dia. (d)	TPI	CL (L1)	No. of Threads	EFF-L (L2)	W	V	OAL (L)	Shank (D)	Flutes (z)
	UNC	UNF										
ETLNU30210040A	4-40UNC	6-40UNF	2.10	40	1.91	3	7.0	0.1	0.6	58	6	3
ETLNU30260032A	6-32UNC		2.60	32	2.38	3	8.7	0.1	0.8	58	6	3
ETLNU30500028A		1/4-28UNF	5.00	28	2.72	3	14.9	0.4	0.9	64	8	3
ETLNU40650024A		5/16-24UNF	6.50	24	3.18	3	18.5	0.5	1.05	64	8	4
ETLNU40480020A	1/4-20UNC		4.80	20	3.81	3	15.6	0.4	1.25	64	8	4
ETLNU40600018A	5/16-18UNC		6.00	18	4.23	3	19.2	0.5	1.4	64	8	4
ETLNU40670016A	3/8-16UNC		6.70	16	4.76	3	22.8	0.5	1.6	64	8	4
ETLNU40920013A	1/2-13UNC		9.20	13	5.86	3	30.0	0.6	2.0	73	10	4
ETLNU41140011A	5/8-11UNC		11.40	11	6.93	3	37.0	0.6	2.3	84	12	4

**ETLCU (UN with Internal Coolant)**



Left hand cutting  
(For CNC use M04 code)

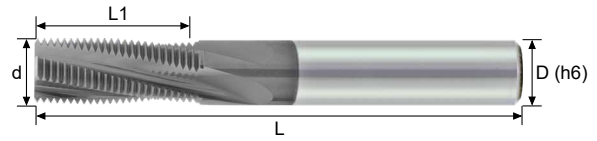
Order No.	Thread Size		Dia. (d)	TPI	CL (L1)	No. of Threads	EFF-L (L2)	W	V	OAL (L)	Shank (D)	Flutes (z)
	UNC	UNF										
ETLCU30330036A		8-36UNF	3.3	36	2.12	3	12	0.2	0.7	58	6	3
ETLCU30260032A	6-32UNC		2.6	32	2.38	3	8.7	0.2	0.8	58	6	3
ETLCU30320032A	8-32UNC		3.2	32	2.38	3	12.3	0.3	0.8	58	6	3
ETLCU30380032A		10-32UNF	3.8	32	2.38	3	14	0.3	0.8	58	6	3
ETLCU30500028A		1/4-28UNF	5	28	2.72	3	14.5	0.4	0.9	64	8	3
ETLCU30350024A	10-24UNC		3.5	24	3.18	3	12.1	0.3	1.05	58	6	3
ETLCU40650024A		5/16-24UNF	6.5	24	3.18	3	17	0.5	1.05	64	8	4
ETLCU40480020A	1/4-20UNC		4.8	20	3.81	3	14	0.4	1.25	64	8	4
ETLCU40600018A	5/16-18UNC		6	18	4.23	3	17	0.5	1.4	64	8	4
ETLCU40670016A	3/8-16UNC		6.7	16	4.76	3	22	0.5	1.6	64	8	4
ETLCU40800014A	7/16-14UNC		8	14	5.44	3	26.5	0.6	1.8	64	8	4
ETLCU40100013A	1/2-13UNC		10	13	5.86	3	29.8	0.6	2.0	73	10	4

※Customized specification available.

Solid Carbide Thread Mills - ISO M

全鎢鋼螺紋銑刀 - ISO M

ETMNM (ISO M)



Order No.	Thread Size	Dia. (d)	Pitch	CL (L1)	No. of Threads	OAL (L)	Shank (D)	Flutes (z)
ETMNM30390075A	M6 × 0.75	3.90	0.75	12.00 *	16	50	6	3
ETMNM30390100A	M6 × 1	3.90	1.00	12.00 *	12	50	6	3
ETMNM30590100A	M8 × 1	5.90	1.00	16.00	16	60	6	3
ETMNM30580125A	M8 × 1.25	5.80	1.25	16.25	13	60	6	3
ETMNM30790100A	M10 × 1	7.90	1.00	20.00	20	60	8	3
ETMNM30770125A	M10 × 1.25	7.70	1.25	20.00	16	60	8	3
ETMNM30770150A	M10 × 1.5	7.70	1.50	21.00	14	60	8	3
ETMNM40990100A	M12 × 1	9.90	1.00	24.00	24	75	10	4
ETMNM40940150A	M12 × 1.5	9.40	1.50	24.00	16	75	10	4
ETMNM40870175A	M12 × 1.75	8.70	1.75	24.50 *	14	75	10	4
ETMNM41120150A	M14 × 1.5	11.20	1.50	28.50	19	75	12	4
ETMNM40990200A	M14 × 2	9.90	2.00	28.00	14	75	10	4
ETMNM41190150A	M16 × 1.5	11.90	1.50	33.00	22	100	12	4
ETMNM41190200A	M16 × 2	11.90	2.00	32.00	16	100	12	4
ETMNM51370250A	M20 × 2.5	13.70	2.50	45.00 *	18	133	16	5

\* Increase neck length 2~5mm

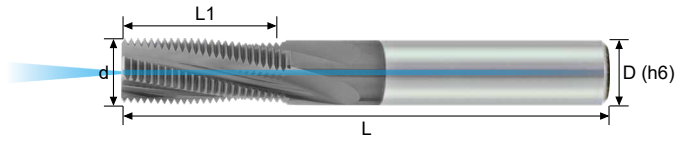
※Customized specification available.



Solid Carbide Thread Mills - ISO M

全鎢鋼螺紋銑刀 - ISO M

ETMCM (ISO M with Internal Coolant)



Order No.	Thread Size	Dia. (d)	Pitch	CL (L1)	No. of Threads	OAL (L)	Shank (D)	Flutes (z)
ETMCM30390075A	M6 × 0.75	3.90	0.75	12.00 *	16	50	6	3
ETMCM30390100A	M6 × 1	3.90	1.00	12.00 *	12	50	6	3
ETMCM30590100A	M8 × 1	5.90	1.00	16.00	16	60	6	3
ETMCM30580125A	M8 × 1.25	5.80	1.25	16.25	13	60	6	3
ETMCM30790100A	M10 × 1	7.90	1.00	20.00	20	60	8	3
ETMCM30770125A	M10 × 1.25	7.70	1.25	20.00	16	60	8	3
ETMCM30770150A	M10 × 1.5	7.70	1.50	21.00	14	60	8	3
ETMCM40990100A	M12 × 1	9.90	1.00	24.00	24	75	10	4
ETMCM40940150A	M12 × 1.5	9.40	1.50	24.00	16	75	10	4
ETMCM40870175A	M12 × 1.75	8.70	1.75	24.50 *	14	75	10	4
ETMCM41120150A	M14 × 1.5	11.20	1.50	28.50	19	75	12	4
ETMCM40990200A	M14 × 2	9.90	2.00	28.00	14	75	10	4
ETMCM41190150A	M16 × 1.5	11.90	1.50	33.00	22	100	12	4
ETMCM41190200A	M16 × 2	11.90	2.00	32.00	16	100	12	4

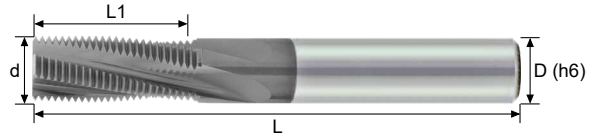
\* Increase neck length 2~5mm

※Customized specification available.

Solid Carbide Thread Mills - UN

全鎢鋼螺紋銑刀 - UN

ETMNU (UN)



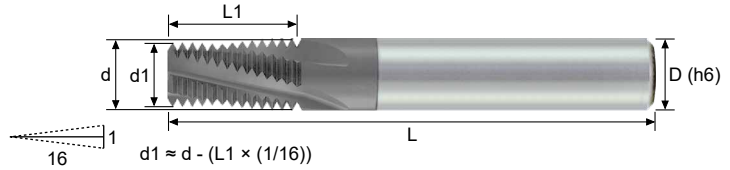
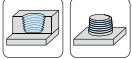
Order No.	Thread Size			Dia. (d)	TPI	CL (L1)	No. of Threads	OAL (L)	Shank (D)	Flutes (z)
	UNC	UNF	UNEF							
ETMNU30300036A		No.8		3.0	36	8.5	12	50	4	3
ETMNU30330032A		No.10	No.12-3/8"	3.3	32	11.1	14	50	4	3
ETMNU30380028A		No.12, 1/4"	7/16", 1/2"	3.8	28	11.8	13	50	4	3
ETMNU30460028A		1/4"	7/16, 1/2"	4.6	28	12.7 *	14	60	6	3
ETMNU40920028A			7/16", 1/2"	9.2	28	22.7	25	75	10	4
ETMNU30290024A	No.10	5/16", 3/8"	9/16"-11/16"	2.9	24	10.6 *	10	50	4	3
ETMNU30350024A	No.12	5/16", 3/8"	9/16"-11/16"	3.5	24	11.6	11	50	4	3
ETMNU30570024A		5/16", 3/8"	9/16"-11/16"	5.7	24	15.9	15	60	6	3
ETMNU30740024A		3/8"	9/16"-11/16"	7.4	24	19.1	18	60	8	3
ETMNU41190024A			9/16"-11/16"	11.9	24	28.6	27	100	12	4
ETMNU30390020A	1/4"	7/16", 1/2"	3/4"-1"	3.9	20	12.7	10	50	4	3
ETMNU40850020A		7/16", 1/2"	3/4"-1"	8.5	20	22.9 *	18	75	10	4
ETMNU40990020A		1/2"	3/4"-1"	9.9	20	25.4	20	75	10	4
ETMNU51590020A			3/4"-1"	15.9	20	38.1	30	100	16	5
ETMNU30520018A	5/16"	9/16", 5/8"	11/16"-1 11/16"	5.2	18	16.9	12	60	6	3
ETMNU41130018A		9/16", 5/8"	11/16"-1 11/16"	11.3	18	29.6	21	100	12	4
ETMNU41190018A		5/8"	11/16"-1 11/16"	11.9	18	32.5	23	100	12	4
ETMNU30670016A	3/8"	3/4"		6.7	16	19.1 *	12	60	8	3
ETMNU41590016A		3/4"		15.9	16	38.1	24	100	16	4
ETMNU40760014A	7/16"	7/8"		7.6	14	23.6	13	60	8	4
ETMNU41870014A		7/8"		18.7	14	44.4 *	24	100	20	4
ETMNU40890013A	1/2"			8.9	13	25.4	13	75	10	4
ETMNU41030012A	9/16"	1"-1 1/2"		10.3	12	29.6 *	14	100	12	4
ETMNU51990012A		1"-1 1/2"		19.9	12	50.8	24	100	20	5
ETMNU41100011A	5/8"			11.0	11	32.3	14	100	12	4
ETMNU51350010A	3/4"			13.5	10	38.1 *	15	100	16	5
ETMNU41520009A	7/8"			15.2	9	45.2	16	100	16	4
ETMNU41700008A	1"			17.0	8	50.8 *	16	100	20	4

\* Increase neck length 2~5mm

Solid Carbide Pipe Thread Mills - BSPT

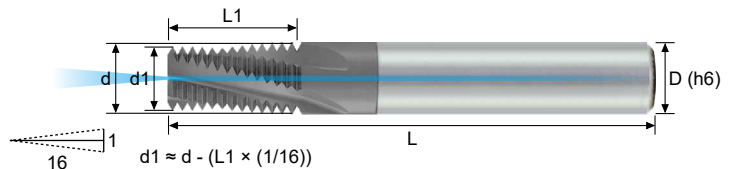
全鎢鋼管用錐形螺紋銑刀 - BSPT

ETMNPT (BSPT)



Order No.	Thread Size	Dia. (d)	TPI	CL (L1)	No. of Threads	OAL (L)	Shank (D)	Flutes (z)	Working dia.
ETMNPT305828A	1/16"×28	5.8	28	16.3	18	60	6	3	6.7
ETMNPT307728A	1/8"×28	7.7	28	20	22	60	8	3	8.7
ETMNPT409919A	1/4"×19	9.9	19	26.7	20	75	10	4	11.8
ETMNPT413419A	3/8"×19	13.4	19	33.4	25	100	16	4	15.2
ETMNPT415714A	1/2"×14, 3/4"×14	15.7	14	43.5	24	100	16	4	19.0
ETMNPT419911A	1"×11, 1 1/2"×11, 2"×11, 2 1/2"×11	19.9	11	41.6	18	100	20	4	30.7

ETMCPT (BSPT with Internal Coolant)

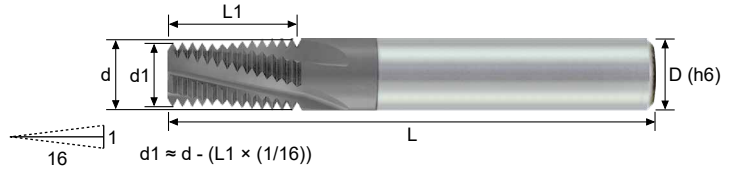
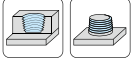


Order No.	Thread Size	Dia. (d)	TPI	CL (L1)	No. of Threads	OAL (L)	Shank (D)	Flutes (z)	Working dia.
ETMCPT305828A	1/16"×28	5.8	28	16.3	18	60	6	3	6.7
ETMCPT307728A	1/8"×28	7.7	28	20	22	60	8	3	8.7
ETMCPT409919A	1/4"×19	9.9	19	26.7	20	75	10	4	11.8
ETMCPT413419A	3/8"×19	13.4	19	33.4	25	100	16	4	15.2
ETMCPT415714A	1/2"×14, 3/4"×14	15.7	14	43.5	24	100	16	4	19.0
ETMCPT419911A	1"×11, 1 1/2"×11, 2"×11, 2 1/2"×11	19.9	11	41.6	18	100	20	4	30.7

**Solid Carbide Pipe Thread Mills - NPT**

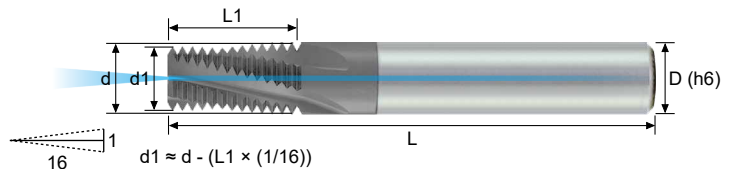
全鎢鋼管用錐形螺紋銑刀 - NPT

**ETMNNT (NPT)**



Order No.	Thread Size	Dia. (d)	TPI	CL (L1)	No. of Threads	OAL (L)	Shank (D)	Flutes (z)	Working dia.
ETMNNT305327A	1/16"×27	5.3	27	9.4	10	60	6	3	6.3
ETMNNT407527A	1/8"×27	7.5	27	9.4	10	60	8	4	8.5
ETMNNT409418A	1/4"×18	9.4	18	14.1	10	75	10	4	11.1
ETMNNT411918A	3/8"×18	11.9	18	14.1	10	75	12	4	14.5
ETMNNT410714A	1/2"×14	10.7	14	21.7	12	75	12	4	17.7
ETMNNT415514A	1/2"×14, 3/4"×14	15.5	14	25.4	14	100	16	4	17.7~23
ETMNNT419911A	1-2"×11.5	19.9	11.5	33.1	15	100	20	4	29~56
ETMNNT419908A	2 1/2"×8, 3"×8	19.9	8	38.1	12	100	20	4	66.5

**ETMCNT (NPT with Internal Coolant)**



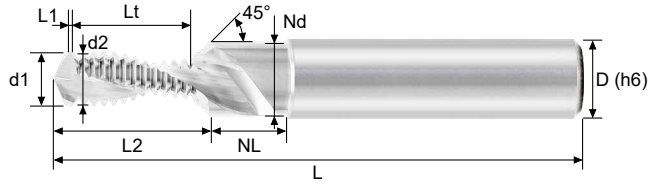
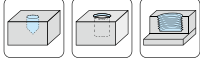
Order No.	Thread Size	Dia. (d)	TPI	CL (L1)	No. of Threads	OAL (L)	Shank (D)	Flutes (z)	Working dia.
ETMNCT305327A	1/16"×27	5.3	27	9.4	10	60	6	3	6.3
ETMNCT407527A	1/8"×27	7.5	27	9.4	10	60	8	4	8.5
ETMNCT409418A	1/4"×18	9.4	18	14.1	10	75	10	4	11.1
ETMNCT411918A	3/8"×18	11.9	18	14.1	10	75	12	4	14.5
ETMNCT410714A	1/2"×14	10.7	14	21.7	12	75	12	4	17.7
ETMNCT415514A	1/2"×14, 3/4"×14	15.5	14	25.4	14	100	16	4	17.7~23
ETMNCT419911A	1-2"×11.5	19.9	11.5	33.1	15	100	20	4	29~56
ETMNCT419908A	2 1/2"×8, 3"×8	19.9	8	38.1	12	100	20	4	66.5

Threading

Solid Carbide Drill & Thread Mills - ETDN · 2F

全鎢鋼螺紋鑽銑刀 · 2刃

ETDNM (ISO M with Internal Coolant)



Order No.	Thread Size	d1	Pitch	d2	Lt	L1	L2	No. of Threads	Nd	NL	L	D	h	Coating
ETDNM20420080	M5 × 0.8	4.2	0.80	4.00	9.60	0.8	11.9	12	5.7	6.1	55	6	0.46	
ETDNM20500100	M6 × 1	5.0	1.00	4.85	11.00	1.0	13.7	11	6.6	9.5	60	8	0.58	
ETDNM20680125	M8 × 1.25	6.8	1.25	6.45	13.75	1.3	17.1	11	9.0	16.8	75	10	0.72	
ETDNM20850150	M10 × 1.5	8.5	1.50	8.08	18.00	1.5	22.1	12	11.0	11.6	80	12	0.87	
ETDNM20420080U	M5 × 0.8	4.2	0.80	4.00	9.60	0.8	11.9	12	5.7	6.1	55	6	0.46	•
ETDNM20500100U	M6 × 1	5.0	1.00	4.85	11.00	1.0	13.7	11	6.6	9.5	60	8	0.58	•
ETDNM20680125U	M8 × 1.25	6.8	1.25	6.45	13.75	1.3	17.1	11	9.0	16.8	75	10	0.72	•
ETDNM20850150U	M10 × 1.5	8.5	1.50	8.08	18.00	1.5	22.1	12	11.0	11.6	80	12	0.87	•

\* Maximum chamfering depth = (Nd - d1) × 0.5

**Recommended Cutting Conditions** 建議切削數據

**Recommended Cutting Conditions** 建議切削數據

For ETS, ETT, ETC, ETL

Work Material	Vc (m/min)	Feed (mm/t)
Carbon Steel / Alloy Steel	60 ~ 90	0.02 ~ 0.08
Stainless Steel	60 ~ 90	0.02 ~ 0.08
Cast Iron	50 ~ 100	0.03 ~ 0.10
Aluminum Alloy	50 ~ 100	0.02 ~ 0.06
Super Alloy	20 ~ 60	0.01 ~ 0.03
Hardened Steel	30 ~ 60	0.01 ~ 0.03

For ETM

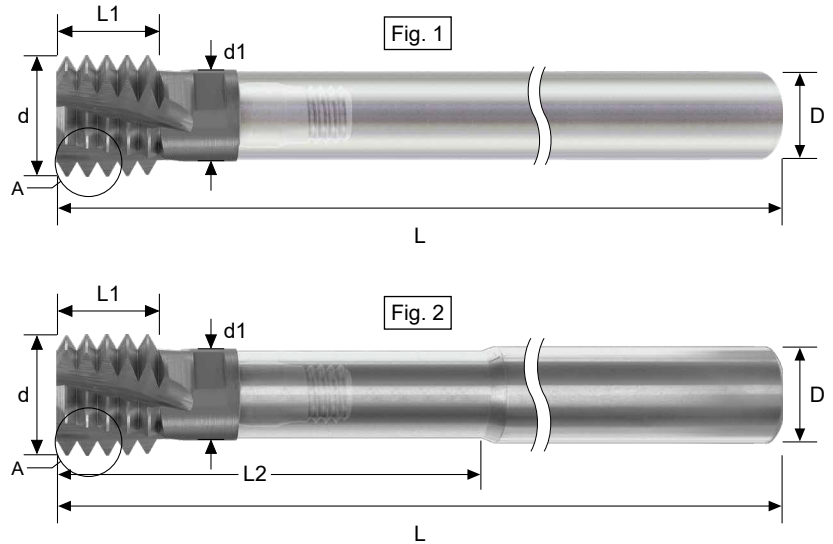
Work Material	Vc (m/min)	Feed (mm/t)
Carbon Steel / Alloy Steel	50 ~ 70	0.02 ~ 0.07
Stainless Steel	50 ~ 70	0.02 ~ 0.07
Cast Iron	50 ~ 100	0.03 ~ 0.10
Aluminum Alloy	50 ~ 70	0.03 ~ 0.10
Super Alloy	20 ~ 60	0.01 ~ 0.03
Hardened Steel	25 ~ 50	0.01 ~ 0.05

For ETD

Work Material	Vc (m/min)	Drilling f (mm/rev)		Thread milling fz (mm)		
		≤ 6mm	≤ 12mm	≤ 6mm	≤ 12mm	
K Grey Cast Iron	55 ~ 85	0.07 ~ 0.105	0.105 ~ 0.154	0.014 ~ 0.035	0.035 ~ 0.07	
	55 ~ 85	0.07 ~ 0.105	0.105 ~ 0.154	0.014 ~ 0.035	0.035 ~ 0.07	
N Short Chips, Brass, Bronze	70 ~ 280	0.07 ~ 0.210	0.042 ~ 0.070	0.021 ~ 0.042	0.042 ~ 0.07	
	Aluminium, Cast Alloy (Si<10%)	70 ~ 280	0.07 ~ 0.175	0.175 ~ 0.210	0.021 ~ 0.042	0.042 ~ 0.07
	Aluminium, Cast Alloy (Si≥10%)	70 ~ 280	0.07 ~ 0.175	0.175 ~ 0.210	0.021 ~ 0.042	0.042 ~ 0.07
	Thermoplastics	40 ~ 80	0.07 ~ 0.175	0.175 ~ 0.210	0.021 ~ 0.042	0.042 ~ 0.07

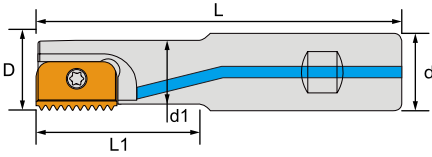
※ To choose uncoated tool for aluminum materials machining.

ETMMM (ISO M)



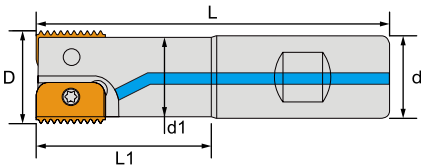
Order No.	Thread Size	Dia. (d)	Pitch	CL (L1)	No. of Threads	Neck (d1)	EFF-L (L2)	OAL (L)	Shank (D)	Flutes (Z)	Fig.	Specifications	
												Threading Head	Adapter
ETMWM410005010A	≥ M12	10	0.5	8	16	9.25	39	115	10	4	2	ETMWM41000050A	ISWMEB10100060
ETMWM410007510A	≥ M12	10	0.75	6.75	9	8.93	39	115	10	4	2	ETMWM41000075A	ISWMEB10100060
ETMWM410010010A	≥ M12	10	1	7	7	8.6	39	115	10	4	2	ETMWM41000100A	ISWMEB10100060
ETMWM512010010A	≥ M16	12	1	9	9	10.6	-	117	10	5	1	ETMWM51200100A	ISWMEA10100060
ETMWM512010015A	≥ M16	12	1	9	9	10.6	-	167	10	5	1	ETMWM51200100A	ISWMEA10150060
ETMWM412012510A	≥ M16	12	1.25	8.75	7	10.3	-	117	10	4	1	ETMWM41200125A	ISWMEA10100060
ETMWM412012515A	≥ M16	12	1.25	8.75	7	10.3	-	167	10	4	1	ETMWM41200125A	ISWMEA10150060
ETMWM412015010A	≥ M16	12	1.5	9	6	9.95	-	117	10	4	1	ETMWM41200150A	ISWMEA10100060
ETMWM412015015A	≥ M16	12	1.5	9	6	9.95	-	167	10	4	1	ETMWM41200150A	ISWMEA10150060
ETMWM616015010A	≥ M20	16	1.5	13.5	9	13.95	-	122	14	6	1	ETMWM61600150A	ISWMEA14100080
ETMWM616015015A	≥ M20	16	1.5	13.5	9	13.95	-	172	14	6	1	ETMWM61600150A	ISWMEA14150080
ETMWM616015020A	≥ M20	16	1.5	13.5	9	13.95	-	222	14	6	1	ETMWM61600150A	ISWMEA14200080
ETMWM516020010A	≥ M19	16	2	14	7	13.3	52	122	14	5	2	ETMWM51600200A	ISWMEB14100080
ETMWM516020015A	≥ M19	16	2	14	7	13.3	82	172	14	5	2	ETMWM51600200A	ISWMEB14150080
ETMWM516020020A	≥ M19	16	2	14	7	13.3	122	222	14	5	2	ETMWM51600200A	ISWMEB14200080
ETMWM515425010A	≥ M20	15.4	2.5	15	6	12.05	-	122	12	5	1	ETMWM51540250A	ISWMEA12100080
ETMWM515425015A	≥ M20	15.4	2.5	15	6	12.05	-	172	12	5	1	ETMWM51540250A	ISWMEA12150080
ETMWM515425020A	≥ M20	15.4	2.5	15	6	12.05	-	222	12	5	1	ETMWM51540250A	ISWMEA12200080
ETMWM420030010A	≥ M24	20	3	15	5	16	-	127	16	4	1	ETMWM42000300A	ISWMEA16100100

**Thread Milling Tools 螺紋銑刀**



Order No.	D	L1	L	d	d1	T	Coolant Hole	Inserts	Screw	Wrench	Stock
ICXMTE141012071	12	20	75	20	8.9	1	✓	LNEX14 LNHT14	ITS3002	ITK09	●
ICXMTE141014081	14.5	25	85	20	11	1	✓				●
ICXMTE211021091	21	40	94	20	16.5	1	✓	LNEX21 LNHT21	ITS4020	ITK15	●
ICXMTE211025121	25	28	125	20	-	1	✓				●

● stock ○ by inquiry



Order No.	D	L1	L	d	d1	T	Coolant Hole	Inserts	Screw	Wrench	Stock
ICXMTE142020091	20	41	93	20	16	2	✓	LNEX14 LNHT14	ITS3002	ITK09	●
ICXMTE212030101	30	52	108	25	24	2	✓	LNEX21 LNHT21	ITS4020	ITK15	●

● stock ○ by inquiry

**Recommended Cutting Conditions 建議切削數據**

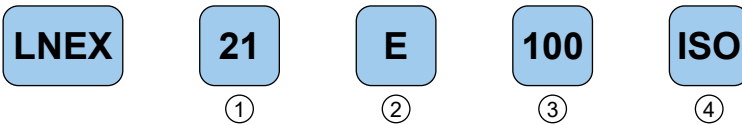
Working Material	Vc	fz
Carbon Steel / Alloy Steel	100 ~ 250	0.10 ~ 0.20
Stainless Steel	130 ~ 200	0.10 ~ 0.18
Cast Iron	100 ~ 200	0.12 ~ 0.20
Aluminum Alloy	110 ~ 400	0.15 ~ 0.24
Super Alloy	25 ~ 100	0.05 ~ 0.15
Hardened Steel	40 ~ 100	0.05 ~ 0.15

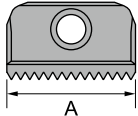


Thread Milling Tools - LNE X Inserts

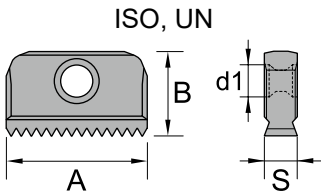
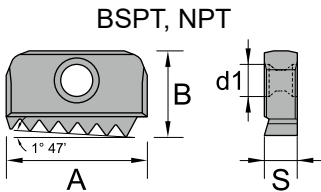
螺紋銑削刀片

Designations for Thread Milling Insert 螺紋銑削刀片型號編碼




① Insert Size	② Type of Insert	③ Thread Pitch	④ Thread Standard																															
 <table border="1" data-bbox="127 638 279 756"> <tr><td>A (mm)</td></tr> <tr><td>14</td></tr> <tr><td>21</td></tr> </table>	A (mm)	14	21	<table border="1" data-bbox="364 486 629 774"> <tr><td><b>E</b></td><td>External</td></tr> <tr><td><b>I</b></td><td>Internal</td></tr> <tr><td><b>None</b></td><td>External + Internal</td></tr> </table>	<b>E</b>	External	<b>I</b>	Internal	<b>None</b>	External + Internal	<table border="1" data-bbox="655 486 1004 774"> <tr> <td rowspan="2">TP (mm)</td> <td>0.75</td> <td>1.0</td> <td>...</td> <td>2.5</td> </tr> <tr> <td>075</td> <td>100</td> <td>...</td> <td>250</td> </tr> <tr> <td rowspan="2">TPI</td> <td>32</td> <td>28</td> <td>...</td> <td>10</td> </tr> <tr> <td>32</td> <td>28</td> <td>...</td> <td>10</td> </tr> </table>	TP (mm)	0.75	1.0	...	2.5	075	100	...	250	TPI	32	28	...	10	32	28	...	10	<table border="1" data-bbox="1033 486 1297 774"> <tr><td><b>ISO</b></td></tr> <tr><td><b>UN</b></td></tr> <tr><td><b>BSPT</b></td></tr> <tr><td><b>NPT</b></td></tr> </table>	<b>ISO</b>	<b>UN</b>	<b>BSPT</b>	<b>NPT</b>
A (mm)																																		
14																																		
21																																		
<b>E</b>	External																																	
<b>I</b>	Internal																																	
<b>None</b>	External + Internal																																	
TP (mm)	0.75	1.0	...	2.5																														
	075	100	...	250																														
TPI	32	28	...	10																														
	32	28	...	10																														
<b>ISO</b>																																		
<b>UN</b>																																		
<b>BSPT</b>																																		
<b>NPT</b>																																		

Insert Specifications 刀片規格

Insert	Dimensions (mm)				
	A	B	S	d1	
LNEX14	14	7.5	3.1	3.3	 <p>ISO, UN</p>
LNEX21	21	12	4.7	4.7	
LNHT14	14	7.5	3.1	3.3	 <p>BSPT, NPT</p>
LNHT21	21	12	4.7	4.7	

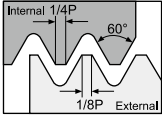
Insert Grade 刀片材質

Grade Type 刀片材質	Coating Color 塗層顏色	Properties 屬性	Application 加工特性	Working Material 加工材質						Industry Area 產業應用範圍
				P	M	K	N	S	H	
<b>CX33TX</b>		<ul style="list-style-type: none"> <li>PVD (AlTiSiN)</li> <li>Wear resistance</li> <li>Anti-corrosion</li> <li>耐磨性</li> <li>抗腐蝕</li> </ul>	<ul style="list-style-type: none"> <li>Medium to roughing</li> <li>General machining</li> <li>Suitable for various materials</li> <li>適合中至粗加工</li> <li>適合泛用加工</li> <li>適用於各種材料加工</li> </ul>	●	○	●	○	●	<ul style="list-style-type: none"> <li>Mold &amp; Die</li> <li>Automotive</li> <li>Machinery</li> <li>Aerospace</li> <li>模具產業</li> <li>汽車零件</li> <li>機械零件</li> <li>航太零件</li> </ul>	

**Indexable Thread Milling Inserts - ISO M**

捨棄式螺絲銑削刀片 - ISO M

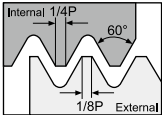
**Insert Designation 刀片型號**



**ISO M**

External 外徑

Insert	Order No.	Code-I/E-Pitch-Grade	Pitch	Working Material					
			TP(mm)	P	M	K	N	S	H
	ILNEX14E075ISO33TX	LNEX14E0.75ISO-CX33TX	0.75	●	○	●		○	●
	ILNEX14E100ISO33TX	LNEX14E1.00ISO-CX33TX	1.0	●	○	●		○	●
	ILNEX14E125ISO33TX	LNEX14E1.25ISO-CX33TX	1.25	●	○	●		○	●
	ILNEX14E150ISO33TX	LNEX14E1.50ISO-CX33TX	1.5	●	○	●		○	●
	ILNEX14E175ISO33TX	LNEX14E1.75ISO-CX33TX	1.75	●	○	●		○	●
	ILNEX14E200ISO33TX	LNEX14E2.00ISO-CX33TX	2.0	●	○	●		○	●
	ILNEX14E250ISO33TX	LNEX14E2.50ISO-CX33TX	2.5	●	○	●		○	●
	ILNEX21E100ISO33TX	LNEX21E1.00ISO-CX33TX	1.0	●	○	●		○	●
	ILNEX21E125ISO33TX	LNEX21E1.25ISO-CX33TX	1.25	●	○	●		○	●
	ILNEX21E150ISO33TX	LNEX21E1.50ISO-CX33TX	1.5	●	○	●		○	●
	ILNEX21E175ISO33TX	LNEX21E1.75ISO-CX33TX	1.75	●	○	●		○	●
	ILNEX21E200ISO33TX	LNEX21E2.00ISO-CX33TX	2.0	●	○	●		○	●
	ILNEX21E250ISO33TX	LNEX21E2.50ISO-CX33TX	2.5	●	○	●		○	●
	ILNEX21E300ISO33TX	LNEX21E3.00ISO-CX33TX	3.0	●	○	●		○	●



**ISO M**

Internal 內徑

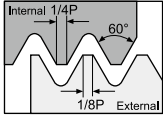
Insert	Order No.	Code-I/E-Pitch-Grade	Pitch	Working Material					
			TP(mm)	P	M	K	N	S	H
	ILNEX14I075ISO33TX	LNEX14I0.75ISO-CX33TX	0.75	●	○	●		○	●
	ILNEX14I100ISO33TX	LNEX14I1.00ISO-CX33TX	1.0	●	○	●		○	●
	ILNEX14I125ISO33TX	LNEX14I1.25ISO-CX33TX	1.25	●	○	●		○	●
	ILNEX14I150ISO33TX	LNEX14I1.50ISO-CX33TX	1.5	●	○	●		○	●
	ILNEX14I175ISO33TX	LNEX14I1.75ISO-CX33TX	1.75	●	○	●		○	●
	ILNEX14I200ISO33TX	LNEX14I2.00ISO-CX33TX	2.0	●	○	●		○	●
	ILNEX14I250ISO33TX	LNEX14I2.50ISO-CX33TX	2.5	●	○	●		○	●
	ILNEX21I100ISO33TX	LNEX21I1.00ISO-CX33TX	1.0	●	○	●		○	●
	ILNEX21I125ISO33TX	LNEX21I1.25ISO-CX33TX	1.25	●	○	●		○	●
	ILNEX21I150ISO33TX	LNEX21I1.50ISO-CX33TX	1.5	●	○	●		○	●
	ILNEX21I175ISO33TX	LNEX21I1.75ISO-CX33TX	1.75	●	○	●		○	●
	ILNEX21I200ISO33TX	LNEX21I2.00ISO-CX33TX	2.0	●	○	●		○	●
	ILNEX21I250ISO33TX	LNEX21I2.50ISO-CX33TX	2.5	●	○	●		○	●
	ILNEX21I300ISO33TX	LNEX21I3.00ISO-CX33TX	3.0	●	○	●		○	●

Threading

**Indexable Thread Milling Inserts - UN**

捨棄式螺絲銑削刀片 - UN

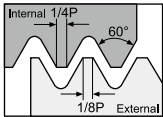
**Insert Designation 刀片型號**



**UN**

External 外徑

Insert	Order No.	Code-I/E-Pitch-Grade	Pitch	Working Material					
			TPI	P	M	K	N	S	H
	ILNEX14E32UN33TX	LNEX14E32UN-CX33TX	32	●	○	●		○	●
	ILNEX14E28UN33TX	LNEX14E28UN-CX33TX	28	●	○	●		○	●
	ILNEX14E24UN33TX	LNEX14E24UN-CX33TX	24	●	○	●		○	●
	ILNEX14E20UN33TX	LNEX14E20UN-CX33TX	20	●	○	●		○	●
	ILNEX14E18UN33TX	LNEX14E18UN-CX33TX	18	●	○	●		○	●
	ILNEX14E16UN33TX	LNEX14E16UN-CX33TX	16	●	○	●		○	●
	ILNEX14E14UN33TX	LNEX14E14UN-CX33TX	14	●	○	●		○	●
	ILNEX14E12UN33TX	LNEX14E12UN-CX33TX	12	●	○	●		○	●
	ILNEX21E24UN33TX	LNEX21E24UN-CX33TX	24	●	○	●		○	●
	ILNEX21E20UN33TX	LNEX21E20UN-CX33TX	20	●	○	●		○	●
	ILNEX21E18UN33TX	LNEX21E18UN-CX33TX	18	●	○	●		○	●
	ILNEX21E16UN33TX	LNEX21E16UN-CX33TX	16	●	○	●		○	●
	ILNEX21E14UN33TX	LNEX21E14UN-CX33TX	14	●	○	●		○	●
	ILNEX21E12UN33TX	LNEX21E12UN-CX33TX	12	●	○	●		○	●
	ILNEX21E10UN33TX	LNEX21E10UN-CX33TX	10	●	○	●		○	●

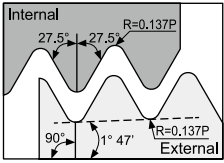


**UN**

Internal 內徑

Insert	Order No.	Code-I/E-Pitch-Grade	Pitch	Working Material					
			TPI	P	M	K	N	S	H
	ILNEX14I32UN33TX	LNEX14I32UN-CX33TX	32	●	○	●		○	●
	ILNEX14I28UN33TX	LNEX14I28UN-CX33TX	28	●	○	●		○	●
	ILNEX14I24UN33TX	LNEX14I24UN-CX33TX	24	●	○	●		○	●
	ILNEX14I20UN33TX	LNEX14I20UN-CX33TX	20	●	○	●		○	●
	ILNEX14I18UN33TX	LNEX14I18UN-CX33TX	18	●	○	●		○	●
	ILNEX14I16UN33TX	LNEX14I16UN-CX33TX	16	●	○	●		○	●
	ILNEX14I14UN33TX	LNEX14I14UN-CX33TX	14	●	○	●		○	●
	ILNEX14I12UN33TX	LNEX14I12UN-CX33TX	12	●	○	●		○	●
	ILNEX21I24UN33TX	LNEX21I24UN-CX33TX	24	●	○	●		○	●
	ILNEX21I20UN33TX	LNEX21I20UN-CX33TX	20	●	○	●		○	●
	ILNEX21I18UN33TX	LNEX21I18UN-CX33TX	18	●	○	●		○	●
	ILNEX21I16UN33TX	LNEX21I16UN-CX33TX	16	●	○	●		○	●
	ILNEX21I14UN33TX	LNEX21I14UN-CX33TX	14	●	○	●		○	●
	ILNEX21I12UN33TX	LNEX21I12UN-CX33TX	12	●	○	●		○	●
	ILNEX21I10UN33TX	LNEX21I10UN-CX33TX	10	●	○	●		○	●

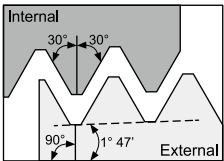
**Insert Designation** 刀片型號



**BSPT**

External and Internal 外徑和內徑

Insert	Order No.	Serie-Pitch-Grade	Pitch	Working Material					
			TPI	P	M	K	N	S	H
	ILNHT1419BSPT33TX	LNHT1419BSPT-CX33TX	19	●	○	●		○	●
	ILNHT1414BSPT33TX	LNHT1414BSPT-CX33TX	14	●	○	●		○	●
	ILNHT2114BSPT33TX	LNHT2114BSPT-CX33TX	14	●	○	●		○	●
	ILNHT2111BSPT33TX	LNHT2111BSPT-CX33TX	11	●	○	●		○	●



**NPT**

External and Internal 外徑和內徑

Insert	Order No.	Code-Pitch-Grade	Pitch	Working Material					
			TPI	P	M	K	N	S	H
	ILNHT1418NPT33TX	LNHT1418NPT-CX33TX	18	●	○	●		○	●
	ILNHT1414NPT33TX	LNHT1414NPT-CX33TX	14	●	○	●		○	●
	ILNHT2114NPT33TX	LNHT2114NPT-CX33TX	14	●	○	●		○	●
	ILNHT2111NPT33TX	LNHT2111NPT-CX33TX	11.5	●	○	●		○	●

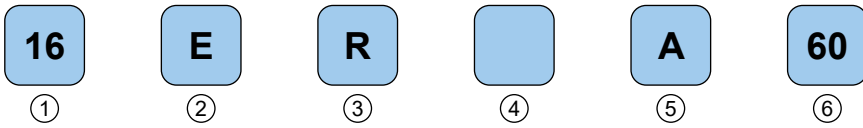






Designations for Thread Turning Insert

螺紋車刀片型號編碼



① Insert Size

l (mm)	d (inch)
11	1/4
16	3/8
22	1/2

② Application

<b>E</b>	Regular Type, External
<b>I</b>	Regular Type, Internal
<b>UE</b>	U Type, External
<b>UI</b>	U Type, Internal
<b>UEI</b>	U Type, External and internal
<b>VE</b>	Vertical Type, External
<b>VI</b>	Vertical Type, Internal

Regular Type      U Type      Vertical Type

③ Hand of Tool

<b>R</b>	Right Hand
<b>L</b>	Left Hand
<b>RL</b>	Right and left-hand

④ Type

<b>M</b>	Press to size with a chipbreaker
<b>B</b>	Peripherally ground & chipbreaker

⑤ Thread Pitch or TPI

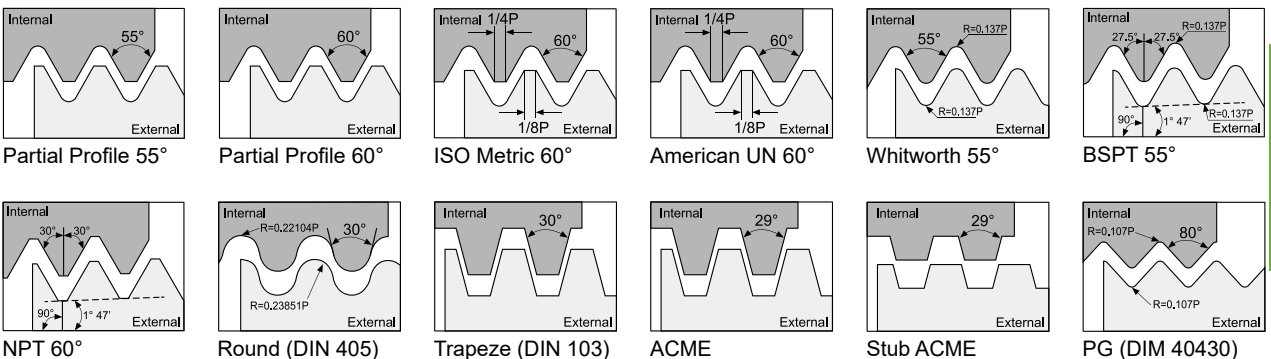
Partial Profile		
	TP (mm)	TPI
<b>A</b>	0.5 ~ 1.5	48 ~ 16
<b>AG</b>	0.5 ~ 3.0	48 ~ 8
<b>G</b>	1.75 ~ 3.0	14 ~ 8
<b>N</b>	3.5 ~ 5.0	7 ~ 5
<b>U</b>	5.5 ~ 8.0	4.5 ~ 4

Full Profile Value by number		
	TP (mm)	TPI
	0.75	34
	∴	∴
	6.00	5

⑥ Thread Standard

<b>55</b>	Partial Profile 55°
<b>60</b>	Partial Profile 60°
<b>ISO</b>	ISO Metric 60°
<b>UN</b>	American UN 60°
<b>W</b>	Whitworth 55°
<b>BSPT</b>	British Standard Pipe Thread
<b>NPT</b>	NPT
<b>RD</b>	Round DIN 405
<b>TR</b>	Trapeze DIN 103
<b>ACME</b>	ACME
<b>STACME</b>	Stub ACME
<b>PG</b>	Pg DIN 40430
<b>UNJ</b>	UNJ
<b>MJ</b>	MJ ISO 5855
∴	∴



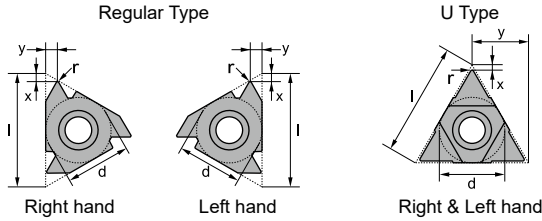
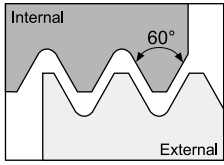
Threading



Thread Turning Inserts - Partial Profile 60°

螺紋車刀片 - 60° 泛牙型

External 外徑



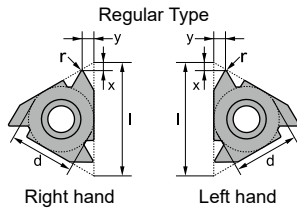
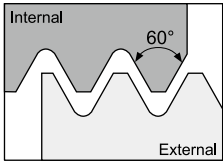
Insert	Order No.	Designation	Pitch		Dimensions (mm)					Working Material					
			TP (mm)	TPI	d	l	r	x	y	P	M	K	N	S	H
 Regular Type	I11ERA606025	11ER-A60-CP6025	0.5 ~ 1.5	48 ~ 16	1/4"	11	0.05	0.8	0.9	●	●	●		○	○
	I11ELA606025	11EL-A60-CP6025	0.5 ~ 1.5	48 ~ 16	1/4"	11	0.05	0.8	0.9	●	●	●		○	○
	I16ERA606025	16ER-A60-CP6025	0.5 ~ 1.5	48 ~ 16	3/8"	16	0.05	0.8	0.9	●	●	●		○	○
	I16ELA606025	16EL-A60-CP6025	0.5 ~ 1.5	48 ~ 16	3/8"	16	0.05	0.8	0.9	●	●	●		○	○
	I16ERAG606025	16ER-AG60-CP6025	0.5 ~ 3.0	48 ~ 8	3/8"	16	0.05	1.2	1.7	●	●	●		○	○
	* I16ERMAG606025	16ERM-AG60-CP6025	0.5 ~ 3.0	48 ~ 8	3/8"	16	0.12	1.2	1.7	●	●	●		○	○
	I16ELAG606025	16EL-AG60-CP6025	0.5 ~ 3.0	48 ~ 8	3/8"	16	0.05	1.2	1.7	●	●	●		○	○
	I16ERG606025	16ER-G60-CP6025	1.75 ~ 3.0	14 ~ 8	3/8"	16	0.17	1.2	1.7	●	●	●		○	○
	I16ELG606025	16EL-G60-CP6025	1.75 ~ 3.0	14 ~ 8	3/8"	16	0.17	1.2	1.7	●	●	●		○	○
	I22ERN606025	22ER-N60-CP6025	3.5 ~ 5.0	7 ~ 5	1/2"	22	0.32	1.7	2.5	●	●	●		○	○
I22ELN606025	22EL-N60-CP6025	3.5 ~ 5.0	7 ~ 5	1/2"	22	0.32	1.7	2.5	●	●	●		○	○	
 U Type	** I22UEIRLU606025	22UEIRL-U60-CP6025	5.5 ~ 8.0	4.5 ~ 3.25	1/2"	22	0.28	0.6	11.0	●	●	●		○	○

\* Press to size with a chip breaker.  
 \*\* For external and internal application.

Thread Turning Inserts - Partial Profile 60°

螺紋車刀片 - 60° 泛牙型

Internal 內徑



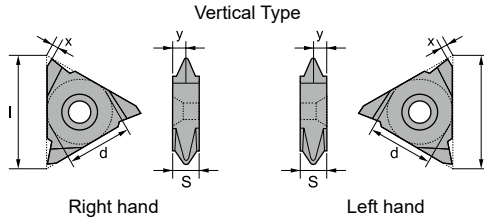
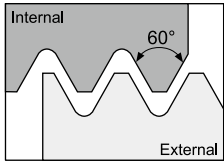
Insert	Order No.	Designation	Pitch		Dimensions (mm)					Working Material					
			TP (mm)	TPI	d	l	r	x	y	P	M	K	N	S	H
Regular Type	I11IRA606025	11IR-A60-CP6025	0.5 ~ 1.5	48 ~ 16	1/4"	11	0.05	0.8	0.9	●	●	●		○	○
	I11ILA606025	11IL-A60-CP6025	0.5 ~ 1.5	48 ~ 16	1/4"	11	0.05	0.8	0.9	●	●	●		○	○
	I16IRA606025	16IR-A60-CP6025	0.5 ~ 1.5	48 ~ 16	3/8"	16	0.05	0.8	0.9	●	●	●		○	○
	I16ILA606025	16IL-A60-CP6025	0.5 ~ 1.5	48 ~ 16	3/8"	16	0.05	0.8	0.9	●	●	●		○	○
	I16IRAG606025	16IR-AG60-CP6025	0.5 ~ 3.0	48 ~ 8	3/8"	16	0.05	1.2	1.7	●	●	●		○	○
	* I16IRMAG606025	16IRM-AG60-CP6025	0.5 ~ 3.0	48 ~ 8	3/8"	16	0.12	1.2	1.7	●	●	●		○	○
	I16ILAG606025	16IL-AG60-CP6025	0.5 ~ 3.0	48 ~ 8	3/8"	16	0.05	1.2	1.7	●	●	●		○	○
	I16IRG606025	16IR-G60-CP6025	1.75 ~ 3.0	14 ~ 8	3/8"	16	0.12	1.2	1.7	●	●	●		○	○
	I16ILG606025	16IL-G60-CP6025	1.75 ~ 3.0	14 ~ 8	3/8"	16	0.12	1.2	1.7	●	●	●		○	○
	I22IRN606025	22IR-N60-CP6025	3.5 ~ 5.0	7 ~ 5	1/2"	22	0.22	1.7	2.5	●	●	●		○	○
	I22ILN606025	22IL-N60-CP6025	3.5 ~ 5.0	7 ~ 5	1/2"	22	0.22	1.7	2.5	●	●	●		○	○

\* Press to size with a chip breaker.

Thread Turning Inserts - Partial Profile 60° Vertical

立式螺紋車刀片 - 60° 泛牙型

External 外徑

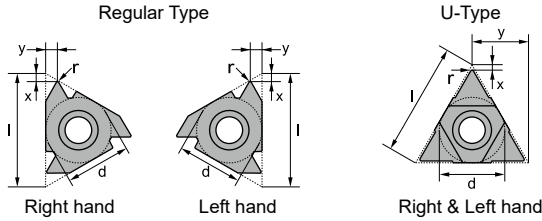
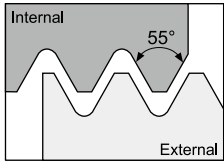


Insert	Order No.	Designation	Pitch		Dimensions (mm)					Working Material					
			TP (mm)	TPI	d	l	x	y	S	P	M	K	N	S	H
 Vertical Type	I16VERA606025	16VER-A60-CP6025	0.5 ~ 1.5	48 ~ 16	3/8"	16	1.0	0.9	3.18	●	●	●		○	○
	I16VELA606025	16VEL-A60-CP6025	0.5 ~ 1.5	48 ~ 16	3/8"	16	1.0	0.9	3.18	●	●	●		○	○
	I16VERAG606025	16VER-AG60-CP6025	0.5 ~ 2.5	48 ~ 10	3/8"	16	1.0	1.5	3.18	●	●	●		○	○
	I16VELAG606025	16VEL-AG60-CP6025	0.5 ~ 2.5	48 ~ 10	3/8"	16	1.0	1.5	3.18	●	●	●		○	○
	I16VERG606025	16VER-G60-CP6025	1.75 ~ 2.5	14 ~ 10	3/8"	16	1.0	1.5	3.18	●	●	●		○	○
	I16VELG606025	16VEL-G60-CP6025	1.75 ~ 2.5	14 ~ 10	3/8"	16	1.0	1.5	3.18	●	●	●		○	○

Thread Turning Inserts - Partial Profile 55°

螺紋車刀片 - 55° 泛牙型

External 外徑



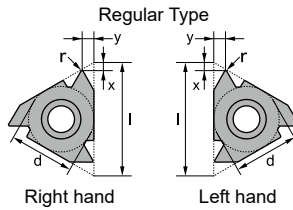
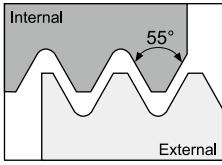
Insert	Order No.	Designation	Pitch		Dimensions (mm)					Working Material						
			TP (mm)	TPI	d	l	r	x	y	P	M	K	N	S	H	
 Regular Type	I11ERA556025	11ER-A55-CP6025	0.5 ~ 1.5	48 ~ 16	1/4"	11	0.05	0.8	0.9	●	●	●			○	○
	I11ELA556025	11EL-A55-CP6025	0.5 ~ 1.5	48 ~ 16	1/4"	11	0.05	0.8	0.9	●	●	●			○	○
	I16ERA556025	16ER-A55-CP6025	0.5 ~ 1.5	48 ~ 16	3/8"	16	0.05	0.8	0.9	●	●	●			○	○
	I16ELA556025	16EL-A55-CP6025	0.5 ~ 1.5	48 ~ 16	3/8"	16	0.05	0.8	0.9	●	●	●			○	○
	I16ERAG556025	16ER-AG55-CP6025	0.5 ~ 3.0	48 ~ 8	3/8"	16	0.05	1.2	1.7	●	●	●			○	○
	* I16ERMAG556025	16ERM-AG55-CP6025	0.5 ~ 3.0	48 ~ 8	3/8"	16	0.12	1.2	1.7	●	●	●			○	○
	I16ELAG556025	16EL-AG55-CP6025	0.5 ~ 3.0	48 ~ 8	3/8"	16	0.05	1.2	1.7	●	●	●			○	○
	I16ERG556025	16ER-G55-CP6025	1.75 ~ 3.0	14 ~ 8	3/8"	16	0.17	1.2	1.7	●	●	●			○	○
	I16ELG556025	16EL-G55-CP6025	1.75 ~ 3.0	14 ~ 8	3/8"	16	0.17	1.2	1.7	●	●	●			○	○
	I22ERN556025	22ER-N55-CP6025	3.5 ~ 5.0	7 ~ 5	1/2"	22	0.42	1.7	2.5	●	●	●			○	○
I22ELN556025	22EL-N55-CP6025	3.5 ~ 5.0	7 ~ 5	1/2"	22	0.42	1.7	2.5	●	●	●			○	○	
 U Type	** I22UEIRLU556025	22UEIRL-U55-CP6025	5.5 ~ 8.0	4.5 ~ 3.25	1/2"	22	0.60	0.9	11.0	●	●	●			○	○

\* Press to size with a chip breaker.  
 \*\* For external and internal application.

Thread Turning Inserts - Partial Profile 55°

螺紋車刀片 - 55° 泛牙型

Internal 內徑



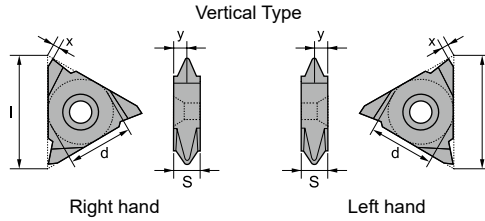
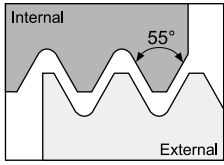
Insert	Order No.	Designation	Pitch		Dimensions (mm)					Working Material						
			TP (mm)	TPI	d	l	r	x	y	P	M	K	N	S	H	
Regular Type	I11IRA556025	11IR-A55-CP6025	0.5 ~ 1.5	48 ~ 16	1/4"	11	0.05	0.8	0.9	●	●	●			○	○
	I11ILA556025	11IL-A55-CP6025	0.5 ~ 1.5	48 ~ 16	1/4"	11	0.05	0.8	0.9	●	●	●			○	○
	I16IRA556025	16IR-A55-CP6025	0.5 ~ 1.5	48 ~ 16	3/8"	16	0.05	0.8	0.9	●	●	●			○	○
	I16ILA556025	16IL-A55-CP6025	0.5 ~ 1.5	48 ~ 16	3/8"	16	0.05	0.8	0.9	●	●	●			○	○
	I16IRAG556025	16IR-AG55-CP6025	0.5 ~ 3.0	48 ~ 8	3/8"	16	0.05	1.2	1.7	●	●	●			○	○
	* I16IRMAG556025	16IRM-AG55-CP6025	0.5 ~ 3.0	48 ~ 8	3/8"	16	0.12	1.2	1.7	●	●	●			○	○
	I16ILAG556025	16IL-AG55-CP6025	0.5 ~ 3.0	48 ~ 8	3/8"	16	0.05	1.2	1.7	●	●	●			○	○
	I16IRG556025	16IR-G55-CP6025	1.75 ~ 3.0	14 ~ 8	3/8"	16	0.12	1.2	1.7	●	●	●			○	○
	I16ILG556025	16IL-G55-CP6025	1.75 ~ 3.0	14 ~ 8	3/8"	16	0.12	1.2	1.7	●	●	●			○	○
	I22IRN556025	22IR-N55-CP6025	3.5 ~ 5.0	7 ~ 5	1/2"	22	0.42	1.7	2.5	●	●	●			○	○
	I22ILN556025	22IL-N55-CP6025	3.5 ~ 5.0	7 ~ 5	1/2"	22	0.42	1.7	2.5	●	●	●			○	○

\* Press to size with a chip breaker.

Thread Turning Inserts - Partial Profile 55° Vertical

立式螺紋車刀片 - 55° 泛牙型

External 外徑

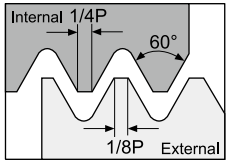


Insert	Order No.	Designation	Pitch		Dimensions (mm)					Working Material					
			TP (mm)	TPI	d	l	x	y	S	P	M	K	N	S	H
 Vertical Type	I16VERA556025	16VER-A55-CP6025	0.5 ~ 1.5	48 ~ 16	3/8"	16	1.0	0.9	3.18	●	●	●		○	○
	I16VELA556025	16VEL-A55-CP6025	0.5 ~ 1.5	48 ~ 16	3/8"	16	1.0	0.9	3.18	●	●	●		○	○
	I16VERAG556025	16VER-AG55-CP6025	0.5 ~ 2.5	48 ~ 10	3/8"	16	1.0	1.5	3.18	●	●	●		○	○
	I16VELAG556025	16VEL-AG55-CP6025	0.5 ~ 2.5	48 ~ 10	3/8"	16	1.0	1.5	3.18	●	●	●		○	○
	I16VERG556025	16VER-G55-CP6025	1.75 ~ 2.5	14 ~ 10	3/8"	16	1.0	1.5	3.18	●	●	●		○	○
	I16VELG556025	16VEL-G55-CP6025	1.75 ~ 2.5	14 ~ 10	3/8"	16	1.0	1.5	3.18	●	●	●		○	○

Thread Turning Inserts - ISO Metric 60°

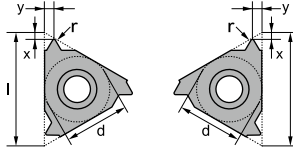
螺紋車刀片 - ISO 公制 60° 螺紋

External 外徑




Tolerance Class : 6g/6H

Regular Type



Right hand

Left hand

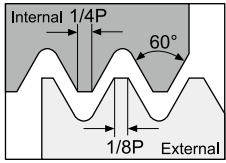
Insert	Order No.	Designation	Pitch	Dimensions (mm)					Working Material						
			TP (mm)	d	l	r	x	y	P	M	K	N	S	H	
 Regular Type	I16ER035ISO6025	16ER-0.35ISO-CP6025	0.35	3/8"	16	0.04	0.8	0.4	●	●	●			○	○
	I16EL035ISO6025	16EL-0.35ISO-CP6025	0.35	3/8"	16	0.04	0.8	0.4	●	●	●			○	○
	I16ER040ISO6025	16ER-0.40ISO-CP6025	0.40	3/8"	16	0.04	0.7	0.4	●	●	●			○	○
	I16ER045ISO6025	16ER-0.45ISO-CP6025	0.45	3/8"	16	0.05	0.7	0.4	●	●	●			○	○
	I16ER050ISO6025	16ER-0.50ISO-CP6025	0.50	3/8"	16	0.05	0.6	0.6	●	●	●			○	○
	I16EL050ISO6025	16EL-0.50ISO-CP6025	0.50	3/8"	16	0.05	0.6	0.6	●	●	●			○	○
	I16ER060ISO6025	16ER-0.60ISO-CP6025	0.60	3/8"	16	0.07	0.6	0.6	●	●	●			○	○
	I16ER070ISO6025	16ER-0.70ISO-CP6025	0.70	3/8"	16	0.07	0.6	0.6	●	●	●			○	○
	I16ER075ISO6025	16ER-0.75ISO-CP6025	0.75	3/8"	16	0.08	0.6	0.6	●	●	●			○	○
	I16EL075ISO6025	16EL-0.75ISO-CP6025	0.75	3/8"	16	0.08	0.6	0.6	●	●	●			○	○
	I16ER080ISO6025	16ER-0.80ISO-CP6025	0.80	3/8"	16	0.09	0.6	0.6	●	●	●			○	○
	I16EL080ISO6025	16EL-0.80ISO-CP6025	0.80	3/8"	16	0.09	0.6	0.6	●	●	●			○	○
	I16ER100ISO6025	16ER-1.00ISO-CP6025	1.00	3/8"	16	0.12	0.7	0.7	●	●	●			○	○
	I16EL100ISO6025	16EL-1.00ISO-CP6025	1.00	3/8"	16	0.12	0.7	0.7	●	●	●			○	○
	I16ER125ISO6025	16ER-1.25ISO-CP6025	1.25	3/8"	16	0.15	0.8	0.9	●	●	●			○	○
	I16EL125ISO6025	16EL-1.25ISO-CP6025	1.25	3/8"	16	0.15	0.8	0.9	●	●	●			○	○
	I16ER150ISO6025	16ER-1.50ISO-CP6025	1.50	3/8"	16	0.18	0.8	1.0	●	●	●			○	○
	I16EL150ISO6025	16EL-1.50ISO-CP6025	1.50	3/8"	16	0.18	0.8	1.0	●	●	●			○	○
	I16ER175ISO6025	16ER-1.75ISO-CP6025	1.75	3/8"	16	0.21	0.9	1.2	●	●	●			○	○
	I16EL175ISO6025	16EL-1.75ISO-CP6025	1.75	3/8"	16	0.21	0.9	1.2	●	●	●			○	○
	I16ER200ISO6025	16ER-2.00ISO-CP6025	2.00	3/8"	16	0.25	1.0	1.3	●	●	●			○	○
	I16EL200ISO6025	16EL-2.00ISO-CP6025	2.00	3/8"	16	0.25	1.0	1.3	●	●	●			○	○
	I16ER250ISO6025	16ER-2.50ISO-CP6025	2.50	3/8"	16	0.31	1.1	1.5	●	●	●			○	○
	I16EL250ISO6025	16EL-2.50ISO-CP6025	2.50	3/8"	16	0.31	1.1	1.5	●	●	●			○	○
I16ER300ISO6025	16ER-3.00ISO-CP6025	3.00	3/8"	16	0.38	1.2	1.6	●	●	●			○	○	
I16EL300ISO6025	16EL-3.00ISO-CP6025	3.00	3/8"	16	0.38	1.2	1.6	●	●	●			○	○	

(continued)

Thread Turning Inserts - ISO Metric 60°

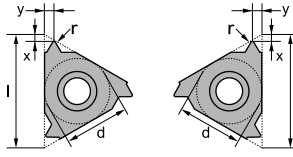
螺紋車刀片 - ISO 公制 60° 螺紋

External 外徑



Tolerance Class : 6g/6H

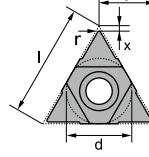
Regular Type



Right hand

Left hand

U-Type



Right & Left hand

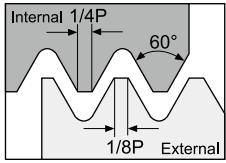
Insert	Order No.	Designation	Pitch	Dimensions (mm)					Working Material						
			TP (mm)	d	l	r	x	y	P	M	K	N	S	H	
<p>Regular Type</p>	I22ER350ISO6025	22ER-3.50ISO-CP6025	3.50	1/2"	22	0.44	1.6	2.3	●	●	●			○	○
	I22EL350ISO6025	22EL-3.50ISO-CP6025	3.50	1/2"	22	0.44	1.6	2.3	●	●	●			○	○
	I22ER400ISO6025	22ER-4.00ISO-CP6025	4.00	1/2"	22	0.52	1.6	2.3	●	●	●			○	○
	I22EL400ISO6025	22EL-4.00ISO-CP6025	4.00	1/2"	22	0.52	1.6	2.3	●	●	●			○	○
	I22ER450ISO6025	22ER-4.50ISO-CP6025	4.50	1/2"	22	0.58	1.7	2.4	●	●	●			○	○
	I22EL450ISO6025	22EL-4.50ISO-CP6025	4.50	1/2"	22	0.58	1.7	2.4	●	●	●			○	○
	I22ER500ISO6025	22ER-5.00ISO-CP6025	5.00	1/2"	22	0.64	1.7	2.5	●	●	●			○	○
I22EL500ISO6025	22EL-5.00ISO-CP6025	5.00	1/2"	22	0.64	1.7	2.5	●	●	●			○	○	
<p>U Type</p>	I22UERL550ISO6025	22UERL-5.50ISO-CP6025	5.50	1/2"	22	0.70	2.3	11.0	●	●	●			○	○
	I22UERL600ISO6025	22UERL-6.00ISO-CP6025	6.00	1/2"	22	0.78	2.6	11.0	●	●	●			○	○



Thread Turning Inserts - ISO Metric 60°

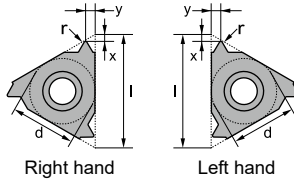
螺紋車刀片 - ISO 公制 60° 螺紋


Internal 內徑



Tolerance Class : 6g/6H

Regular Type



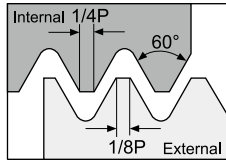
Insert	Order No.	Designation	Pitch	Dimensions (mm)					Working Material						
			TP (mm)	d	l	r	x	y	P	M	K	N	S	H	
 Regular Type	I11IR035IS06025	11IR-0.35ISO-CP6025	0.35	1/4"	11	0.02	0.8	0.3	●	●	●			○	○
	I11IL035IS06025	11IL-0.35ISO-CP6025	0.35	1/4"	11	0.02	0.8	0.3	●	●	●			○	○
	I11IR040IS06025	11IR-0.40ISO-CP6025	0.40	1/4"	11	0.02	0.8	0.4	●	●	●			○	○
	I11IR050IS06025	11IR-0.50ISO-CP6025	0.50	1/4"	11	0.03	0.6	0.6	●	●	●			○	○
	I11IL050IS06025	11IL-0.50ISO-CP6025	0.50	1/4"	11	0.03	0.6	0.6	●	●	●			○	○
	I11IR070IS06025	11IR-0.70ISO-CP6025	0.70	1/4"	11	0.04	0.6	0.6	●	●	●			○	○
	I11IR075IS06025	11IR-0.75ISO-CP6025	0.75	1/4"	11	0.04	0.6	0.6	●	●	●			○	○
	I11IL075IS06025	11IL-0.75ISO-CP6025	0.75	1/4"	11	0.04	0.6	0.6	●	●	●			○	○
	I11IR080IS06025	11IR-0.80ISO-CP6025	0.80	1/4"	11	0.04	0.6	0.6	●	●	●			○	○
	I11IR100IS06025	11IR-1.00ISO-CP6025	1.00	1/4"	11	0.05	0.6	0.7	●	●	●			○	○
	I11IL100IS06025	11IL-1.00ISO-CP6025	1.00	1/4"	11	0.05	0.6	0.7	●	●	●			○	○
	I11IR125IS06025	11IR-1.25ISO-CP6025	1.25	1/4"	11	0.07	0.8	0.8	●	●	●			○	○
	I11IL125IS06025	11IL-1.25ISO-CP6025	1.25	1/4"	11	0.07	0.8	0.8	●	●	●			○	○
	I11IR150IS06025	11IR-1.50ISO-CP6025	1.50	1/4"	11	0.08	0.8	1.0	●	●	●			○	○
	I11IL150IS06025	11IL-1.50ISO-CP6025	1.50	1/4"	11	0.08	0.8	1.0	●	●	●			○	○
	I16IR075IS06025	16IR-0.75ISO-CP6025	0.75	3/8"	16	0.04	0.6	0.6	●	●	●			○	○
	I16IL075IS06025	16IL-0.75ISO-CP6025	0.75	3/8"	16	0.04	0.6	0.6	●	●	●			○	○
	I16IR080IS06025	16IR-0.80ISO-CP6025	0.80	3/8"	16	0.04	0.6	0.6	●	●	●			○	○
	I16IL080IS06025	16IL-0.80ISO-CP6025	0.80	3/8"	16	0.04	0.6	0.6	●	●	●			○	○
	I16IR100IS06025	16IR-1.00ISO-CP6025	1.00	3/8"	16	0.05	0.6	0.7	●	●	●			○	○
	I16IL100IS06025	16IL-1.00ISO-CP6025	1.00	3/8"	16	0.05	0.6	0.7	●	●	●			○	○
	I16IR125IS06025	16IR-1.25ISO-CP6025	1.25	3/8"	16	0.07	0.8	0.9	●	●	●			○	○
	I16IL125IS06025	16IL-1.25ISO-CP6025	1.25	3/8"	16	0.07	0.8	0.9	●	●	●			○	○
	I16IR150IS06025	16IR-1.50ISO-CP6025	1.50	3/8"	16	0.10	0.8	1.0	●	●	●			○	○
I16IL150IS06025	16IL-1.50ISO-CP6025	1.50	3/8"	16	0.10	0.8	1.0	●	●	●			○	○	
I16IR175IS06025	16IR-1.75ISO-CP6025	1.75	3/8"	16	0.12	0.9	1.2	●	●	●			○	○	
I16IL175IS06025	16IL-1.75ISO-CP6025	1.75	3/8"	16	0.12	0.9	1.2	●	●	●			○	○	

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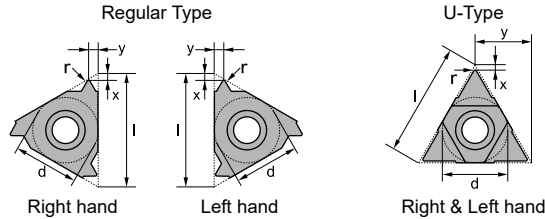
Thread Turning Inserts - ISO Metric 60°

螺紋車刀片 - ISO 公制 60° 螺紋

Internal 內徑



Tolerance Class : 6g/6H

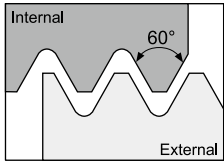


Insert	Order No.	Designation	Pitch	Dimensions (mm)					Working Material					
			TP (mm)	d	l	r	x	y	P	M	K	N	S	H
<p>Regular Type</p>	I16IR200ISO6025	16IR-2.00ISO-CP6025	2.00	3/8"	16	0.13	1.0	1.3	●	●	●		○	○
	I16IL200ISO6025	16IL-2.00ISO-CP6025	2.00	3/8"	16	0.13	1.0	1.3	●	●	●		○	○
	I16IR250ISO6025	16IR-2.50ISO-CP6025	2.50	3/8"	16	0.15	1.1	1.5	●	●	●		○	○
	I16IL250ISO6025	16IL-2.50ISO-CP6025	2.50	3/8"	16	0.15	1.1	1.5	●	●	●		○	○
	I16IR300ISO6025	16IR-3.00ISO-CP6025	3.00	3/8"	16	0.18	1.1	1.5	●	●	●		○	○
	I16IL300ISO6025	16IL-3.00ISO-CP6025	3.00	3/8"	16	0.18	1.1	1.5	●	●	●		○	○
	I22IR350ISO6025	22IR-3.50ISO-CP6025	3.50	1/2"	22	0.22	1.6	2.3	●	●	●		○	○
	I22IL350ISO6025	22IL-3.50ISO-CP6025	3.50	1/2"	22	0.22	1.6	2.3	●	●	●		○	○
	I22IR400ISO6025	22IR-4.00ISO-CP6025	4.00	1/2"	22	0.25	1.6	2.3	●	●	●		○	○
	I22IL400ISO6025	22IL-4.00ISO-CP6025	4.00	1/2"	22	0.25	1.6	2.3	●	●	●		○	○
	I22IR450ISO6025	22IR-4.50ISO-CP6025	4.50	1/2"	22	0.29	1.6	2.4	●	●	●		○	○
	I22IL450ISO6025	22IL-4.50ISO-CP6025	4.50	1/2"	22	0.29	1.6	2.4	●	●	●		○	○
	I22IR500ISO6025	22IR-5.00ISO-CP6025	5.00	1/2"	22	0.32	1.6	2.3	●	●	●		○	○
	I22IL500ISO6025	22IL-5.00ISO-CP6025	5.00	1/2"	22	0.32	1.6	2.3	●	●	●		○	○
<p>U Type</p>	I22UIRL550ISO6025	22UIRL-5.50ISO-CP6025	5.50	1/2"	22	0.35	2.4	11.0	●	●	●		○	○
	I22UIRL600ISO6025	22UIRL-6.00ISO-CP6025	6.00	1/2"	22	0.39	2.1	11.0	●	●	●		○	○

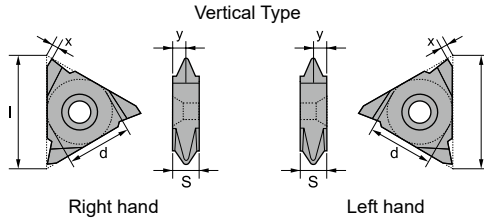
Thread Turning Inserts - ISO Metric 60° Vertical

立式螺紋車刀片 - ISO 公制 60° 螺紋

External 外徑



Tolerance Class : 6g/6H

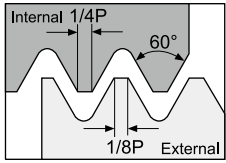


Insert	Order No.	Designation	Pitch	Dimensions (mm)					Working Material					
			TP (mm)	d	l	x	y	S	P	M	K	N	S	H
<p>Vertical Type</p>	I16VER050ISO6025	16VER-0.50ISO-CP6025	0.50	3/8"	16	1.0	0.6	3.18	●	●	●		○	○
	I16VEL050ISO6025	16VEL-0.50ISO-CP6025	0.50	3/8"	16	1.0	0.6	3.18	●	●	●		○	○
	I16VER075ISO6025	16VER-0.75ISO-CP6025	0.75	3/8"	16	1.0	0.6	3.18	●	●	●		○	○
	I16VEL075ISO6025	16VEL-0.75ISO-CP6025	0.75	3/8"	16	1.0	0.6	3.18	●	●	●		○	○
	I16VER080ISO6025	16VER-0.80ISO-CP6025	0.80	3/8"	16	1.0	0.6	3.18	●	●	●		○	○
	I16VEL080ISO6025	16VEL-0.80ISO-CP6025	0.80	3/8"	16	1.0	0.6	3.18	●	●	●		○	○
	I16VER100ISO6025	16VER-1.00ISO-CP6025	1.00	3/8"	16	1.0	0.7	3.18	●	●	●		○	○
	I16VEL100ISO6025	16VEL-1.00ISO-CP6025	1.00	3/8"	16	1.0	0.7	3.18	●	●	●		○	○
	I16VER125ISO6025	16VER-1.25ISO-CP6025	1.25	3/8"	16	1.0	0.9	3.18	●	●	●		○	○
	I16VEL125ISO6025	16VEL-1.25ISO-CP6025	1.25	3/8"	16	1.0	0.9	3.18	●	●	●		○	○
	I16VER150ISO6025	16VER-1.50ISO-CP6025	1.50	3/8"	16	1.0	0.9	3.18	●	●	●		○	○
	I16VEL150ISO6025	16VEL-1.50ISO-CP6025	1.50	3/8"	16	1.0	0.9	3.18	●	●	●		○	○
	I16VER175ISO6025	16VER-1.75ISO-CP6025	1.75	3/8"	16	1.0	1.2	3.18	●	●	●		○	○
	I16VEL175ISO6025	16VEL-1.75ISO-CP6025	1.75	3/8"	16	1.0	1.2	3.18	●	●	●		○	○
	I16VER200ISO6025	16VER-2.00ISO-CP6025	2.00	3/8"	16	1.0	1.3	3.18	●	●	●		○	○
	I16VEL200ISO6025	16VEL-2.00ISO-CP6025	2.00	3/8"	16	1.0	1.3	3.18	●	●	●		○	○
	I16VER250ISO6025	16VER-2.50ISO-CP6025	2.50	3/8"	16	1.0	1.5	3.18	●	●	●		○	○
	I16VEL250ISO6025	16VEL-2.50ISO-CP6025	2.50	3/8"	16	1.0	1.5	3.18	●	●	●		○	○

Thread Turning Inserts - American UN 60°

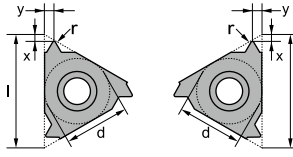
螺紋車刀片 - 美制 UN 60° 螺紋

External 外徑




Tolerance Class : 2A/2B

Regular Type



Right hand

Left hand

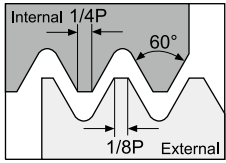
Insert	Order No.	Designation	Pitch	Dimensions (mm)					Working Material						
			TPI	d	l	r	x	y	P	M	K	N	S	H	
	I11ER32UN6025	11ER-32UN-CP6025	32	1/4"	11	0.09	0.6	0.6	●	●	●			○	○
	I11ER28UN6025	11ER-28UN-CP6025	28	1/4"	11	0.10	0.6	0.7	●	●	●			○	○
	I11EL28UN6025	11EL-28UN-CP6025	28	1/4"	11	0.10	0.6	0.7	●	●	●			○	○
	I11ER18UN6025	11ER-18UN-CP6025	18	1/4"	11	0.17	0.8	1.0	●	●	●			○	○
	I11ER16UN6025	11ER-16UN-CP6025	16	1/4"	11	0.18	0.9	1.1	●	●	●			○	○
	I16ER40UN6025	16ER-40UN-CP6025	40	3/8"	16	0.06	0.6	0.6	●	●	●			○	○
	I16EL40UN6025	16EL-40UN-CP6025	40	3/8"	16	0.06	0.6	0.6	●	●	●			○	○
	I16ER36UN6025	16ER-36UN-CP6025	36	3/8"	16	0.07	0.6	0.6	●	●	●			○	○
	I16EL36UN6025	16EL-36UN-CP6025	36	3/8"	16	0.07	0.6	0.6	●	●	●			○	○
	I16ER32UN6025	16ER-32UN-CP6025	32	3/8"	16	0.09	0.6	0.6	●	●	●			○	○
	I16EL32UN6025	16EL-32UN-CP6025	32	3/8"	16	0.09	0.6	0.6	●	●	●			○	○
	I16ER28UN6025	16ER-28UN-CP6025	28	3/8"	16	0.10	0.6	0.7	●	●	●			○	○
	I16EL28UN6025	16EL-28UN-CP6025	28	3/8"	16	0.10	0.6	0.7	●	●	●			○	○
	I16ER26UN6025	16ER-26UN-CP6025	26	3/8"	16	0.11	0.7	0.8	●	●	●			○	○
	I16EL26UN6025	16EL-26UN-CP6025	26	3/8"	16	0.11	0.7	0.8	●	●	●			○	○
	I16ER24UN6025	16ER-24UN-CP6025	24	3/8"	16	0.12	0.7	0.8	●	●	●			○	○
	I16EL24UN6025	16EL-24UN-CP6025	24	3/8"	16	0.12	0.7	0.8	●	●	●			○	○
	I16ER20UN6025	16ER-20UN-CP6025	20	3/8"	16	0.15	0.8	0.9	●	●	●			○	○
	I16EL20UN6025	16EL-20UN-CP6025	20	3/8"	16	0.15	0.8	0.9	●	●	●			○	○
	I16ER18UN6025	16ER-18UN-CP6025	18	3/8"	16	0.17	0.8	1.0	●	●	●			○	○
I16EL18UN6025	16EL-18UN-CP6025	18	3/8"	16	0.17	0.8	1.0	●	●	●			○	○	
I16ER16UN6025	16ER-16UN-CP6025	16	3/8"	16	0.18	0.9	1.1	●	●	●			○	○	
I16EL16UN6025	16EL-16UN-CP6025	16	3/8"	16	0.18	0.9	1.1	●	●	●			○	○	

(continued)

Thread Turning Inserts - American UN 60°

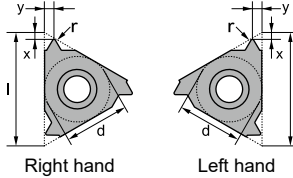
螺紋車刀片 - 美制 UN 60° 螺紋


External 外徑



Tolerance Class : 2A/2B

Regular Type

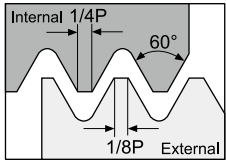


Insert	Order No.	Designation	Pitch	Dimensions (mm)					Working Material						
			TPI	d	l	r	x	y	P	M	K	N	S	H	
	I16ER14UN6025	16ER-14UN-CP6025	14	3/8"	16	0.22	1.0	1.2	●	●	●			○	○
	I16EL14UN6025	16EL-14UN-CP6025	14	3/8"	16	0.22	1.0	1.2	●	●	●			○	○
	I16ER13UN6025	16ER-13UN-CP6025	13	3/8"	16	0.24	1.0	1.3	●	●	●			○	○
	I16EL13UN6025	16EL-13UN-CP6025	13	3/8"	16	0.24	1.0	1.3	●	●	●			○	○
	I16ER12UN6025	16ER-12UN-CP6025	12	3/8"	16	0.26	1.1	1.4	●	●	●			○	○
	I16EL12UN6025	16EL-12UN-CP6025	12	3/8"	16	0.26	1.1	1.4	●	●	●			○	○
	I16ER11.5UN6025	16ER-11.5UN-CP6025	11.5	3/8"	16	0.27	1.1	1.5	●	●	●			○	○
	I16EL11.5UN6025	16EL-11.5UN-CP6025	11.5	3/8"	16	0.27	1.1	1.5	●	●	●			○	○
	I16ER11UN6025	16ER-11UN-CP6025	11	3/8"	16	0.28	1.1	1.5	●	●	●			○	○
	I16EL11UN6025	16EL-11UN-CP6025	11	3/8"	16	0.28	1.1	1.5	●	●	●			○	○
	I16ER10UN6025	16ER-10UN-CP6025	10	3/8"	16	0.32	1.1	1.5	●	●	●			○	○
	I16EL10UN6025	16EL-10UN-CP6025	10	3/8"	16	0.32	1.1	1.5	●	●	●			○	○
	I16ER9UN6025	16ER-9UN-CP6025	9	3/8"	16	0.36	1.2	1.7	●	●	●			○	○
	I16EL9UN6025	16EL-9UN-CP6025	9	3/8"	16	0.36	1.2	1.7	●	●	●			○	○
	I16ER8UN6025	16ER-8UN-CP6025	8	3/8"	16	0.41	1.2	1.6	●	●	●			○	○
	I16EL8UN6025	16EL-8UN-CP6025	8	3/8"	16	0.41	1.2	1.6	●	●	●			○	○
	I22ER7UN6025	22ER-7UN-CP6025	7	1/2"	22	0.47	1.6	2.3	●	●	●			○	○
	I22ER6UN6025	22ER-6UN-CP6025	6	1/2"	22	0.67	1.6	2.3	●	●	●			○	○
I22EL6UN6025	22EL-6UN-CP6025	6	1/2"	22	0.67	1.6	2.3	●	●	●			○	○	
I22ER5UN6025	22ER-5UN-CP6025	5	1/2"	22	0.67	1.7	2.5	●	●	●			○	○	

Thread Turning Inserts - American UN 60°

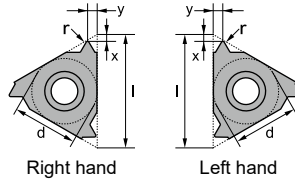
螺紋車刀片 - 美制 UN 60° 螺紋


Internal 內徑



Tolerance Class : 2A/2B

Regular Type



Insert	Order No.	Designation	Pitch	Dimensions (mm)					Working Material						
			TPI	d	l	r	x	y	P	M	K	N	S	H	
	I11IR32UN6025	11IR-32UN-CP6025	32	1/4"	11	0.04	0.6	0.6	●	●	●			○	○
	I11IL32UN6025	11IL-32UN-CP6025	32	1/4"	11	0.04	0.6	0.6	●	●	●			○	○
	I11IR28UN6025	11IR-28UN-CP6025	28	1/4"	11	0.04	0.6	0.7	●	●	●			○	○
	I11IL28UN6025	11IL-28UN-CP6025	28	1/4"	11	0.04	0.6	0.7	●	●	●			○	○
	I11IR24UN6025	11IR-24UN-CP6025	24	1/4"	11	0.05	0.7	0.8	●	●	●			○	○
	I11IL24UN6025	11IL-24UN-CP6025	24	1/4"	11	0.05	0.7	0.8	●	●	●			○	○
	I11IR20UN6025	11IR-20UN-CP6025	20	1/4"	11	0.06	0.8	0.9	●	●	●			○	○
	I11IL20UN6025	11IL-20UN-CP6025	20	1/4"	11	0.06	0.8	0.9	●	●	●			○	○
	I11IR18UN6025	11IR-18UN-CP6025	18	1/4"	11	0.07	0.8	1.0	●	●	●			○	○
	I11IL18UN6025	11IL-18UN-CP6025	18	1/4"	11	0.07	0.8	1.0	●	●	●			○	○
	I11IR16UN6025	11IR-16UN-CP6025	16	1/4"	11	0.09	0.9	1.1	●	●	●			○	○
	I11IL16UN6025	11IL-16UN-CP6025	16	1/4"	11	0.09	0.9	1.1	●	●	●			○	○
	I16IR40UN6025	16IR-40UN-CP6025	40	3/8"	16	0.03	0.6	0.6	●	●	●			○	○
	I16IL40UN6025	16IL-40UN-CP6025	40	3/8"	16	0.03	0.6	0.6	●	●	●			○	○
	I16IR36UN6025	16IR-36UN-CP6025	36	3/8"	16	0.03	0.6	0.6	●	●	●			○	○
	I16IL36UN6025	16IL-36UN-CP6025	36	3/8"	16	0.03	0.6	0.6	●	●	●			○	○
	I16IR32UN6025	16IR-32UN-CP6025	32	3/8"	16	0.04	0.6	0.6	●	●	●			○	○
	I16IL32UN6025	16IL-32UN-CP6025	32	3/8"	16	0.04	0.6	0.6	●	●	●			○	○
	I16IR28UN6025	16IR-28UN-CP6025	28	3/8"	16	0.04	0.6	0.7	●	●	●			○	○
	I16IL28UN6025	16IL-28UN-CP6025	28	3/8"	16	0.04	0.6	0.7	●	●	●			○	○
	I16IR26UN6025	16IR-26UN-CP6025	26	3/8"	16	0.04	0.7	0.8	●	●	●			○	○
	I16IL26UN6025	16IL-26UN-CP6025	26	3/8"	16	0.04	0.7	0.8	●	●	●			○	○
	I16IR24UN6025	16IR-24UN-CP6025	24	3/8"	16	0.05	0.7	0.8	●	●	●			○	○
	I16IL24UN6025	16IL-24UN-CP6025	24	3/8"	16	0.05	0.7	0.8	●	●	●			○	○
I16IR20UN6025	16IR-20UN-CP6025	20	3/8"	16	0.06	0.8	0.9	●	●	●			○	○	
I16IL20UN6025	16IL-20UN-CP6025	20	3/8"	16	0.06	0.8	0.9	●	●	●			○	○	

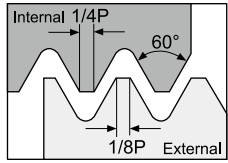
(continued)

Threading

Thread Turning Inserts - American UN 60°

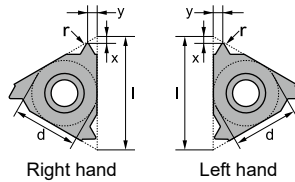
螺紋車刀片 - 美制 UN 60° 螺紋

Internal 內徑




Tolerance Class : 2A/2B

Regular Type



Right hand

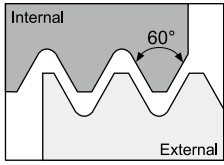
Left hand

Insert	Order No.	Designation	Pitch	Dimensions (mm)					Working Material						
			TPI	d	l	r	x	y	P	M	K	N	S	H	
 Regular Type	I16IR18UN6025	16IR-18UN-CP6025	18	3/8"	16	0.07	0.8	1.0	●	●	●			○	○
	I16IL18UN6025	16IL-18UN-CP6025	18	3/8"	16	0.07	0.8	1.0	●	●	●			○	○
	I16IR16UN6025	16IR-16UN-CP6025	16	3/8"	16	0.09	0.9	1.1	●	●	●			○	○
	I16IL16UN6025	16IL-16UN-CP6025	16	3/8"	16	0.09	0.9	1.1	●	●	●			○	○
	I16IR14UN6025	16IR-14UN-CP6025	14	3/8"	16	0.10	0.9	1.2	●	●	●			○	○
	I16IL14UN6025	16IL-14UN-CP6025	14	3/8"	16	0.10	0.9	1.2	●	●	●			○	○
	I16IR13UN6025	16IR-13UN-CP6025	13	3/8"	16	0.11	1.0	1.3	●	●	●			○	○
	I16IL13UN6025	16IL-13UN-CP6025	13	3/8"	16	0.11	1.0	1.3	●	●	●			○	○
	I16IR12UN6025	16IR-12UN-CP6025	12	3/8"	16	0.12	1.1	1.4	●	●	●			○	○
	I16IL12UN6025	16IL-12UN-CP6025	12	3/8"	16	0.12	1.1	1.4	●	●	●			○	○
	I16IR11.5UN6025	16IR-11.5UN-CP6025	11.5	3/8"	16	0.13	1.1	1.5	●	●	●			○	○
	I16IL11.5UN6025	16IL-11.5UN-CP6025	11.5	3/8"	16	0.13	1.1	1.5	●	●	●			○	○
	I16IR11UN6025	16IR-11UN-CP6025	11	3/8"	16	0.14	1.1	1.5	●	●	●			○	○
	I16IL11UN6025	16IL-11UN-CP6025	11	3/8"	16	0.14	1.1	1.5	●	●	●			○	○
	I16IR10UN6025	16IR-10UN-CP6025	10	3/8"	16	0.15	1.1	1.5	●	●	●			○	○
	I16IL10UN6025	16IL-10UN-CP6025	10	3/8"	16	0.15	1.1	1.5	●	●	●			○	○
	I16IR9UN6025	16IR-9UN-CP6025	9	3/8"	16	0.17	1.2	1.7	●	●	●			○	○
	I16IL9UN6025	16IL-9UN-CP6025	9	3/8"	16	0.17	1.2	1.7	●	●	●			○	○
	I16IR8UN6025	16IR-8UN-CP6025	8	3/8"	16	0.19	1.1	1.5	●	●	●			○	○
	I16IL8UN6025	16IL-8UN-CP6025	8	3/8"	16	0.19	1.1	1.5	●	●	●			○	○
	I22IR7UN6025	22IR-7UN-CP6025	7	1/2"	22	0.22	1.6	2.3	●	●	●			○	○
I22IR6UN6025	22IR-6UN-CP6025	6	1/2"	22	0.26	1.6	2.3	●	●	●			○	○	
I22IL6UN6025	22IL-6UN-CP6025	6	1/2"	22	0.26	1.6	2.3	●	●	●			○	○	
I22IR5UN6025	22IR-5UN-CP6025	5	1/2"	22	0.32	1.6	2.3	●	●	●			○	○	

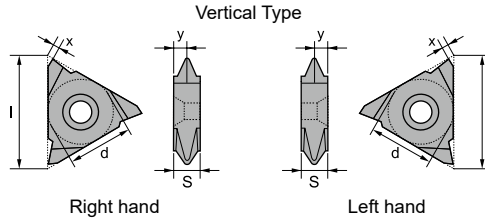
Thread Turning Inserts - American UN 60° Vertical

立式螺紋車刀片 - 美制 UN 60° 螺紋

External 外徑



Tolerance Class : 6g/6H



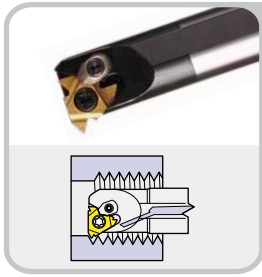
Insert	Order No.	Designation	Pitch	Dimensions (mm)					Working Material						
			TPI	d	l	x	y	S	P	M	K	N	S	H	
<p>Vertical Type</p>	I16VER32UN6025	16VER-32UN-CP6025	32	3/8"	16	1.0	0.6	3.18	●	●	●			○	○
	I16VEL32UN6025	16VEL-32UN-CP6025	32	3/8"	16	1.0	0.6	3.18	●	●	●			○	○
	I16VER28UN6025	16VER-28UN-CP6025	28	3/8"	16	1.0	0.7	3.18	●	●	●			○	○
	I16VEL28UN6025	16VEL-28UN-CP6025	28	3/8"	16	1.0	0.7	3.18	●	●	●			○	○
	I16VER24UN6025	16VER-24UN-CP6025	24	3/8"	16	1.0	0.8	3.18	●	●	●			○	○
	I16VEL24UN6025	16VEL-24UN-CP6025	24	3/8"	16	1.0	0.8	3.18	●	●	●			○	○
	I16VER20UN6025	16VER-20UN-CP6025	20	3/8"	16	1.0	0.9	3.18	●	●	●			○	○
	I16VEL20UN6025	16VEL-20UN-CP6025	20	3/8"	16	1.0	0.9	3.18	●	●	●			○	○
	I16VER18UN6025	16VER-18UN-CP6025	18	3/8"	16	1.0	1.0	3.18	●	●	●			○	○
	I16VEL18UN6025	16VEL-18UN-CP6025	18	3/8"	16	1.0	1.0	3.18	●	●	●			○	○
	I16VER16UN6025	16VER-16UN-CP6025	16	3/8"	16	1.0	1.1	3.18	●	●	●			○	○
	I16VEL16UN6025	16VEL-16UN-CP6025	16	3/8"	16	1.0	1.1	3.18	●	●	●			○	○
	I16VER14UN6025	16VER-14UN-CP6025	14	3/8"	16	1.0	1.2	3.18	●	●	●			○	○
	I16VEL14UN6025	16VEL-14UN-CP6025	14	3/8"	16	1.0	1.2	3.18	●	●	●			○	○
	I16VER12UN6025	16VER-12UN-CP6025	12	3/8"	16	1.0	1.4	3.18	●	●	●			○	○
	I16VEL12UN6025	16VEL-12UN-CP6025	12	3/8"	16	1.0	1.4	3.18	●	●	●			○	○
	I16VER10UN6025	16VER-10UN-CP6025	10	3/8"	16	1.0	1.5	3.18	●	●	●			○	○
	I16VEL10UN6025	16VEL-10UN-CP6025	10	3/8"	16	1.0	1.5	3.18	●	●	●			○	○

Threading

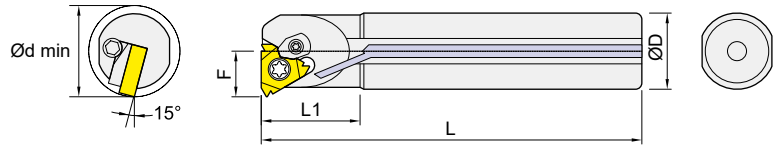


Internal Thread Turning Tool Holders

內徑螺紋車刀桿



SN..CL



Right-hand shown

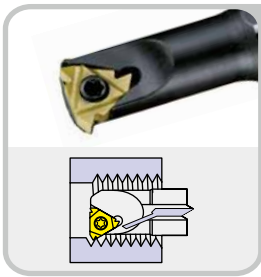
Order No.	Dimensions (mm)					Coolant	Insert	Spare parts
	D	L	L1	F	d min			
ISN <sup>R</sup> <sub>L</sub> 0020R16CL	20	200	40	12	24		16IR 16IL	①
ISN <sup>R</sup> <sub>L</sub> 0025R16CL	25	200	45	14.5	29			
ISN <sup>R</sup> <sub>L</sub> 0032S16CL	32	250	45	18.5	36			
ISN <sup>R</sup> <sub>L</sub> A0020R16CL	20	200	40	12	24	●		
ISN <sup>R</sup> <sub>L</sub> A0025R16CL	25	200	45	14.5	29	●		
ISN <sup>R</sup> <sub>L</sub> A0032S16CL	32	250	45	18.5	36	●		
ISN <sup>R</sup> <sub>L</sub> 0020R22CL	20	200	40	14	28		22IR 22IL	②
ISN <sup>R</sup> <sub>L</sub> 0025R22CL	25	200	45	16.5	32			③
ISN <sup>R</sup> <sub>L</sub> 0032S22CL	32	250	45	20	40			②
ISN <sup>R</sup> <sub>L</sub> A0020R22CL	20	200	40	14	28	●		②
ISN <sup>R</sup> <sub>L</sub> A0025R22CL	25	200	45	16.5	32	●		③
ISN <sup>R</sup> <sub>L</sub> A0032S22CL	32	250	45	20	40	●		③

Spare parts	Screw	Wrench	Shim	Screw	Wrench	Clamp	Wrench
①	IMS3512A	-	IGXN16 or IGXE16	IHTM309	IPL25	IMC353V	ITK15
②	IMS4511A	ITK20	-	-	-	IMC353V	ITK15
③	IMS4516A	ITK20	IGXN22 or IGXE22	IHTM412	IPL30	IMC353V	ITK15

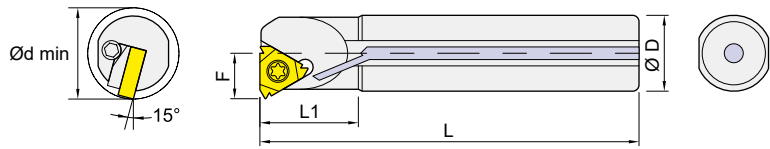
※ SNR right hand tools shim is IGXN.., SNL left hand tools shim is IGXE...

Internal Thread Turning Tool Holders

內徑螺紋車刀桿



SN



Right-hand shown

Order No.	Dimensions (mm)					Coolant	Insert	Spare parts	
	D	L	L1	F	d min				
ISN <sup>R/L</sup> _0010K11S10	10	125	22	6.5	13		11IR 11IL	①	
ISN <sup>R/L</sup> _0012M11S12	12	150	26	8	16				
ISN <sup>R/L</sup> _A0010K11S10	10	125	22	6.5	13	●			
ISN <sup>R/L</sup> _A0012M11S12	12	150	26	8	16	●			
ISN <sup>R/L</sup> _0016Q16	16	180	36	10	19		16IR 16IL	②	
ISN <sup>R/L</sup> _0020R16	20	200	40	12	24			③	
ISN <sup>R/L</sup> _0025R16	25	200	45	14.5	29			③	
ISN <sup>R/L</sup> _0032S16	32	250	45	18.5	36			②	
ISN <sup>R/L</sup> _A0016Q16	16	180	36	10	19	●		②	
ISN <sup>R/L</sup> _A0020R16	20	200	40	12	24	●		③	
ISN <sup>R/L</sup> _A0025R16	25	200	45	14.5	29	●		③	
ISN <sup>R/L</sup> _A0032S16	32	250	45	18.5	36	●		③	
ISN <sup>R/L</sup> _0020R22	20	200	40	14	28			22IR 22IL	④
ISN <sup>R/L</sup> _0025R22	25	200	45	16.5	32				⑤
ISN <sup>R/L</sup> _0025S22	25	250	45	16.5	32				⑤
ISN <sup>R/L</sup> _0032S22	32	250	45	20	40				④
ISN <sup>R/L</sup> _A0020R22	20	200	40	14	28	●	④		
ISN <sup>R/L</sup> _A0025R22	25	200	45	16.5	32	●	④		
ISN <sup>R/L</sup> _A0025S22	25	250	45	16.5	32	●	⑤		
ISN <sup>R/L</sup> _A0032S22	32	250	45	20	40	●	⑤		

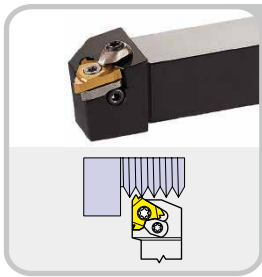
Spare parts	Screw	Shim	Screw	Wrench	Wrench
①	IMS2507G	-	-	-	ITK08
②	IMS3509A	-	-	-	ITK15
③	IMS3512A	IGXN16 or IGXE16	IHTM309	IPL25	ITK15
④	IMS4511A	-	-	-	ITK20
⑤	IMS4516A	IGXN22 or IGXE22	IHTM412	IPL30	ITK20

※ SNR right hand tools shim is IGXN..., SNL left hand tools shim is IGXE...

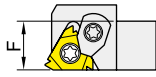
Threading

External Thread Turning Tool Holders

外徑螺紋車刀桿



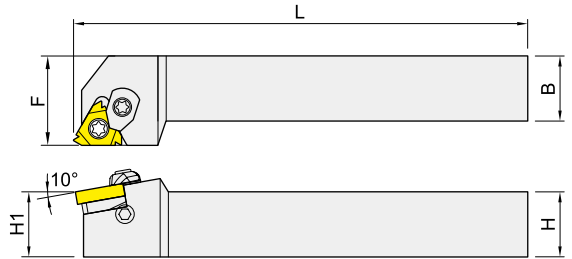
SE..CL



SER1010K16HC  
SER1212K16HC

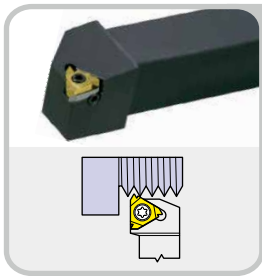


SER1216K16HC  
SER1616K16HC



Right-hand shown

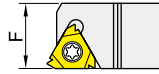
Order No.	Dimensions (mm)				Insert	Spare parts
	H(H1)	B	L	F		
ISE <sup>R</sup> <sub>L</sub> 1010K16HC	10	10	125	10	16ER 16EL	①
ISE <sup>R</sup> <sub>L</sub> 1212K16HC	12	12	125	12		
ISE <sup>R</sup> <sub>L</sub> 1216K16HC	12	16	125	16		
ISE <sup>R</sup> <sub>L</sub> 1616K16HC	16	16	125	16		②
ISE <sup>R</sup> <sub>L</sub> 1616K16CL	16	16	125	20		
ISE <sup>R</sup> <sub>L</sub> 2020K16CL	20	20	125	25		
ISE <sup>R</sup> <sub>L</sub> 2525M16CL	25	25	150	32		
ISE <sup>R</sup> <sub>L</sub> 3232P16CL	32	32	170	40		



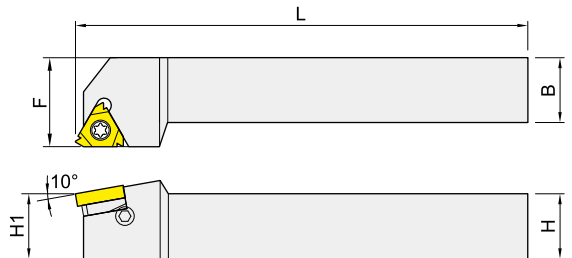
SE



SER1010K16  
SER1212K16



SER1216K16  
SER1616K16H



Right-hand shown

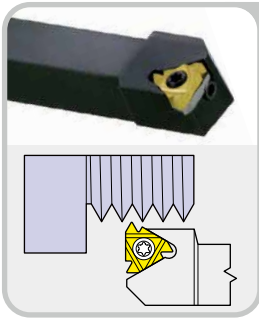
Order No.	Dimensions (mm)				Insert	Spare parts
	H(H1)	B	L	F		
ISE <sup>R</sup> <sub>L</sub> 1216K16	12	16	125	16	16ER 16EL	③
ISE <sup>R</sup> <sub>L</sub> 1010K16H	10	10	125	10		
ISE <sup>R</sup> <sub>L</sub> 1212K16H	12	12	125	12		
ISE <sup>R</sup> <sub>L</sub> 1616K16H	16	16	125	16		④
ISE <sup>R</sup> <sub>L</sub> 1616K16	16	16	125	20		
ISE <sup>R</sup> <sub>L</sub> 2020K16	20	20	125	25		
ISE <sup>R</sup> <sub>L</sub> 2525M16	25	25	150	32		
ISE <sup>R</sup> <sub>L</sub> 3232P16	32	32	170	40	22ER 22IR	⑤
ISE <sup>R</sup> <sub>L</sub> 2020K22	20	20	125	25		
ISE <sup>R</sup> <sub>L</sub> 2525M22	25	25	150	32		
ISE <sup>R</sup> <sub>L</sub> 3232P22	32	32	170	40		

Spare parts	Screw	Wrench	Shim	Screw	Wrench	Clamp	Wrench
①	MS3509A	-	-	-	-	IMC353V	ITK15
②	MS3512A	-	IGXN16 or IGXE16	IHTM309	IPL25	IMC353V	ITK15
③	MS3509A	ITK15	-	-	-	-	-
④	MS3512A	ITK15	IGXN16 or IGXE16	IHTM309	IPL25	-	-
⑤	MS4516A	ITK20	IGXN22 or IGXE22	IHTM412	IPL30	-	-

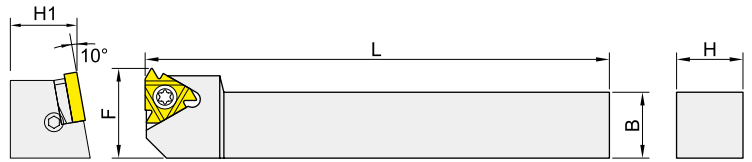
※ SER right hand tools shim is IGXE..., SEL left hand tools shim is IGXN...

External Thread Turning Tool Holders

外徑螺紋車刀桿



SKE

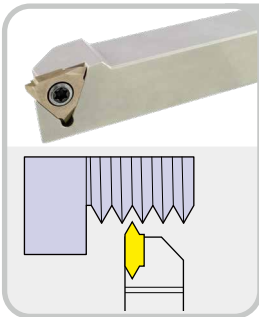


Right-hand shown

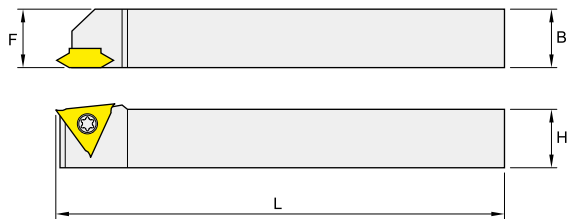
Order No.	Dimensions (mm)				Insert	Spare parts
	H(H1)	B	L	F		
ISKE <sup>R</sup> / <sub>L</sub> 1212K16	12	12	125	18	16ER 16EL	①
ISKE <sup>R</sup> / <sub>L</sub> 1616K16	16	16	125	22		②
ISKE <sup>R</sup> / <sub>L</sub> 2020K16	20	20	125	27		
ISKE <sup>R</sup> / <sub>L</sub> 2525M16	25	25	150	34		

Spare parts	Screw	Shim	Screw	Wrench	Wrench
①	IMS3509A	-	-	-	ITK15
②	IMS3512A	IGXN16 or IGXE16	IHTM309	IPL25	ITK15

※ SKER right hand tools shim is IGXE16, SKEL left hand tools shim is IGXN16.



KTTX



Right-hand shown

Order No.	Dimensions (mm)				Insert	Screw	Wrench
	H	B	L	F			
IKTTX <sup>R</sup> / <sub>L</sub> 1010K16F	10	10	125	10	16VER 16VEL	IBFTX0407	ITK15
IKTTX <sup>R</sup> / <sub>L</sub> 1212K16F	12	12	125	12			
IKTTX <sup>R</sup> / <sub>L</sub> 1616K16F	16	16	125	16			
IKTTX <sup>R</sup> / <sub>L</sub> 2020K16F	20	20	125	20			
IKTTX <sup>R</sup> / <sub>L</sub> 2525K16F	25	25	150	25			

Threading

Thread Turning Tools

Depth of Cut And Number of Passes 切深與加工步數

ISO Metric 60° External 外徑

No. of Passes	Pitch (mm)															
	0.5	0.75	0.8	1.0	1.25	1.5	1.75	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0
Radial infeed per pass (mm)																
1	0.102	0.178	0.178	0.178	0.178	0.229	0.229	0.254	0.279	0.279	0.330	0.330	0.381	0.406	0.432	0.457
2	0.102	0.152	0.152	0.178	0.178	0.203	0.203	0.229	0.254	0.254	0.305	0.330	0.330	0.381	0.406	0.432
3	0.076	0.102	0.127	0.127	0.152	0.178	0.152	0.178	0.203	0.203	0.254	0.254	0.279	0.330	0.330	0.356
4	0.076	0.076	0.076	0.102	0.127	0.152	0.152	0.152	0.178	0.178	0.203	0.229	0.229	0.279	0.279	0.305
5	<b>0.356</b>	<b>0.508</b>	<b>0.533</b>	0.076	0.102	0.127	0.127	0.152	0.152	0.178	0.178	0.229	0.229	0.229	0.229	0.279
6			<b>0.660</b>	0.076	0.076	0.102	0.127	0.127	0.152	0.178	0.178	0.203	0.229	0.229	0.229	0.229
7				<b>0.813</b>	<b>0.965</b>	0.102	0.102	0.127	0.127	0.152	0.152	0.178	0.203	0.203	0.203	0.229
8						0.076	0.076	0.102	0.127	0.152	0.152	0.178	0.178	0.178	0.178	0.203
9								<b>1.143</b>	<b>1.270</b>	0.102	0.127	0.152	0.152	0.178	0.178	0.203
10										0.076	0.102	0.127	0.127	0.152	0.178	0.178
11										<b>1.600</b>	0.102	0.102	0.127	0.152	0.152	0.178
12											0.076	0.076	0.127	0.127	0.152	0.152
13											<b>1.880</b>	<b>2.210</b>	0.102	0.127	0.127	0.152
14													0.076	0.102	0.102	0.127
15													<b>2.515</b>	<b>2.819</b>	<b>3.124</b>	0.127
16																0.102
																<b>3.429</b>
																<b>3.734</b>

Last pass equals total depth of thread.

ISO Metric 60° Internal 內徑

No. of Passes	Pitch (mm)															
	0.5	0.75	1.0	1.25	1.5	1.75	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	
Radial infeed per pass (mm)																
1	0.102	0.178	0.178	0.203	0.254	0.229	0.254	0.279	0.279	0.305	0.330	0.356	0.381	0.381	0.406	0.406
2	0.102	0.127	0.152	0.178	0.203	0.203	0.229	0.229	0.229	0.279	0.305	0.330	0.356	0.356	0.406	0.406
3	0.076	0.102	0.102	0.127	0.152	0.152	0.178	0.178	0.203	0.229	0.229	0.279	0.305	0.305	0.356	0.356
4	0.076	0.076	0.102	0.102	0.102	0.127	0.152	0.152	0.152	0.203	0.203	0.229	0.254	0.254	0.279	0.279
5	<b>0.356</b>	<b>0.483</b>	0.076	0.102	0.102	0.102	0.127	0.152	0.152	0.178	0.178	0.203	0.229	0.229	0.229	0.229
6			<b>0.610</b>	0.076	0.076	0.102	0.102	0.127	0.152	0.152	0.152	0.178	0.203	0.203	0.229	0.229
7				<b>0.787</b>	<b>0.889</b>	0.102	0.102	0.102	0.127	0.152	0.152	0.152	0.178	0.178	0.203	0.203
8						0.076	0.076	0.102	0.102	0.152	0.152	0.152	0.152	0.178	0.178	0.178
9							<b>1.092</b>	<b>1.219</b>	0.102	0.102	0.127	0.127	0.152	0.152	0.152	0.178
10									0.076	0.102	0.102	0.127	0.152	0.152	0.152	0.152
11									<b>1.499</b>	0.102	0.102	0.102	0.127	0.152	0.152	0.152
12										0.076	0.076	0.102	0.127	0.152	0.152	0.152
13										<b>1.778</b>	<b>2.057</b>	0.102	0.102	0.127	0.152	0.152
14												0.076	0.102	0.102	0.127	0.152
15												<b>2.337</b>	<b>2.642</b>	<b>2.896</b>	0.127	0.127
16																0.102
																<b>3.200</b>
																<b>3.454</b>

Last pass equals total depth of thread.

**Thread Turning Tools** 螺紋車刀具

**Depth of Cut And Number of Passes** 切深與加工步數

Unified(UN) 60° External 外徑

No. of Passes	TPI												
	32	28	24	20	18	16	14	13	12	11	10	9	8
	Radial infeed per pass (mm)												
1	0.178	0.178	0.178	0.203	0.229	0.229	0.229	0.254	0.279	0.279	0.279	0.279	0.305
2	0.152	0.152	0.178	0.178	0.203	0.203	0.229	0.229	0.229	0.254	0.229	0.229	0.254
3	0.127	0.127	0.152	0.152	0.152	0.152	0.178	0.178	0.203	0.203	0.203	0.203	0.229
4	0.076	0.102	0.127	0.127	0.152	0.152	0.152	0.152	0.152	0.178	0.178	0.178	0.178
5	<b>0.533</b>	0.076	0.076	0.102	0.127	0.127	0.127	0.152	0.152	0.152	0.152	0.152	0.178
6		<b>0.635</b>	<b>0.711</b>	0.076	0.076	0.102	0.102	0.127	0.152	0.152	0.152	0.152	0.152
7				<b>0.838</b>	<b>0.940</b>	0.076	0.102	0.102	0.127	0.127	0.152	0.152	0.152
8						<b>1.041</b>	0.076	0.076	0.076	0.102	0.127	0.127	0.152
9							<b>1.194</b>	<b>1.270</b>	<b>1.372</b>	0.076	0.102	0.127	0.127
10										<b>1.499</b>	0.076	0.102	0.127
11											<b>1.651</b>	0.076	0.102
12												<b>1.778</b>	0.076
13													<b>2.032</b>

Last pass equals total depth of thread.

Unified(UN) 60° Internal 內徑

No. of Passes	TPI												
	32	28	24	20	18	16	14	13	12	11	10	9	8
	Radial infeed per pass (mm)												
1	0.178	0.178	0.178	0.203	0.229	0.229	0.229	0.254	0.279	0.279	0.279	0.279	0.305
2	0.152	0.152	0.152	0.178	0.178	0.178	0.203	0.229	0.229	0.229	0.229	0.229	0.279
3	0.102	0.102	0.152	0.127	0.152	0.152	0.152	0.152	0.178	0.178	0.152	0.178	0.203
4	0.076	0.102	0.102	0.102	0.127	0.127	0.152	0.152	0.152	0.152	0.152	0.152	0.178
5	<b>0.508</b>	0.076	0.076	0.102	0.102	0.102	0.102	0.127	0.127	0.152	0.152	0.152	0.152
6		<b>0.610</b>	<b>0.660</b>	0.076	0.076	0.102	0.102	0.102	0.102	0.127	0.127	0.152	0.152
7				<b>0.787</b>	<b>0.864</b>	0.076	0.102	0.102	0.102	0.102	0.102	0.127	0.127
8						<b>0.940</b>	0.076	0.076	0.076	0.102	0.102	0.102	0.102
9							<b>1.118</b>	<b>1.194</b>	<b>1.245</b>	0.076	0.102	0.102	0.102
10										<b>1.397</b>	0.076	0.102	0.102
11											<b>1.499</b>	0.076	0.102
12												<b>1.651</b>	0.076
13													<b>1.880</b>

Last pass equals total depth of thread.

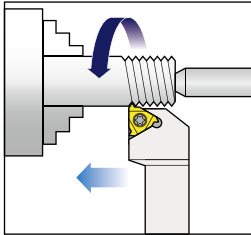
**Recommended Cutting Conditions** 建議切削數據

Working Material	Vc (m/min)
Carbon Steel (HB85-225)	60 -100 -140
Stainless 300 Series	40 - 80 - 120
Cast Iron (HB140-220)	60 - 90 -120
Super Alloy	25 - 45 - 65
Hardened Steel	20 - 40 -60

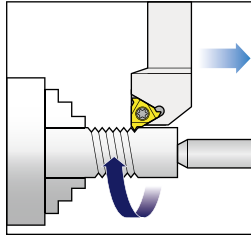
Threading

**Thread Methods** 進刀方法

**External Right Hand Thread**

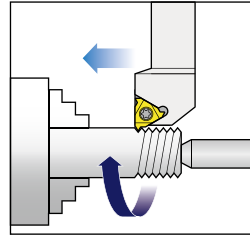


Spindle : Clockwise  
Tool : right hand

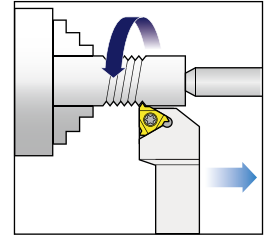


Spindle : Counterclockwise  
Tool : left hand

**External Left Hand Thread**

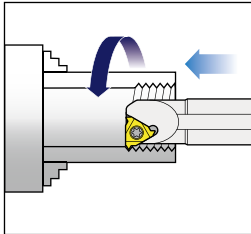


Spindle : Counterclockwise  
Tool : left hand

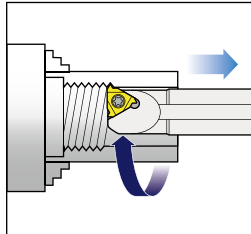


Spindle : Clockwise  
Tool : right hand

**Internal Right Hand Thread**

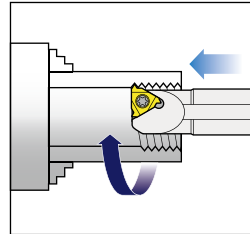


Spindle : Clockwise  
Tool : right hand

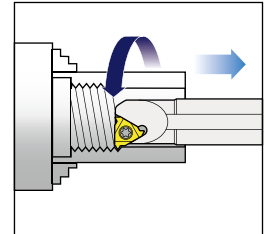


Spindle : Counterclockwise  
Tool : left hand

**Internal Left Hand Thread**

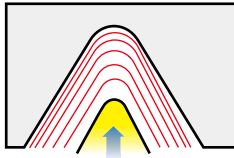
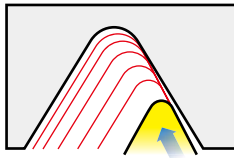
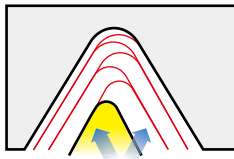


Spindle : Counterclockwise  
Tool : left hand



Spindle : Clockwise  
Tool : right hand

**Infeed Methods** 螺紋加工方法

Infeed Methods	Features
 <p>Radial Infeed</p>	<ul style="list-style-type: none"> <li>• For pitches of less than 1.5mm or 16 T.P.I.</li> <li>• Most commonly used method on manual lathes.</li> <li>• Equal wear on leading and trailing edge.</li> <li>• Good surface finish on trailing edge.</li> <li>• Use on work hardening materials.</li> <li>• Use on short chipping materials.</li> </ul>
 <p>Modified Flank Infeed</p>	<ul style="list-style-type: none"> <li>• For threads greater than 1.5mm or 16 T.P.I.</li> <li>• Reduced cutting pressure on larger pitches.</li> <li>• Reduced chatter.</li> <li>• Directs chip away from the cutting edge.</li> <li>• Displaced in-feed angle improves surface finish.</li> <li>• First choice for internal threading.</li> </ul>
 <p>Alternating Flank Infeed</p>	<ul style="list-style-type: none"> <li>• Recommended for large pitches.</li> <li>• Recommended for long chipping materials.</li> <li>• Method divides the work between both flanks.</li> <li>• Results in equal wear.</li> <li>• Less cutting pressure.</li> <li>• Not available on all lathes.</li> </ul>

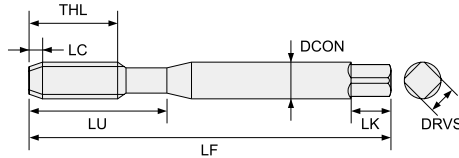
TKS - Spiral Fluted Taps

全鎢鋼螺旋絲攻

P	M	K	N	S	H
○		●	●		

Specification

- Thread type : ISO M
- ANAX Smooth Coating
- For cast iron, brass casting, aluminum casting and steel.
- Vc = 5~15 m/min
- Recommend for through hole.



JIS Unit:mm

Order No.	Thread	LC	THL	LU	LF	DCON	LK	DRVS	Flutes	TAP Limit	Drill Hole
TKSNM306010031A	M6×1.00		19	29	70	6	7	4.5	3	OH3	5.0
TKSNM308012531A	M8×1.25		22	-	75	6.2	8	5	3		6.75
TKSNM310012531A	M10×1.25	2~3P	24	-	75	7	8	5.5	3		8.5
TKSNM310012631A	M10×1.50		24	-	75	7	8	5.5	3	OH4	8.5
TKSNM312012531A	M12×1.25		29	-	95	8.5	9	6.5	3		10.25
TKSNM312017531A	M12×1.75		29	-	95	8.5	9	6.5	3		10.25

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Order No.	Thread	LC	THL	LU	LF	DCON	LK	DRVS	Flutes	TAP Limit	Drill Hole
TKSNM305008033A	M5×0.80		16	24	70	6	8	4.9	3		4.2
TKSNM306010033A	M6×1.00	Form C (2~3P)	19	29	70	6	8	4.9	3	6HX	5.0
TKSNM308012533A	M8×1.25		22	32	75	8	9	6.2	3		6.75
TKSNM310015033A	M10×1.50		24	40	75	10	11	8	3		8.5



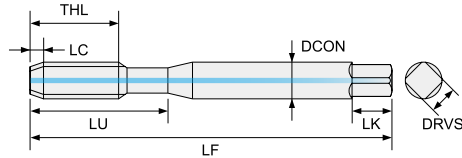
TKS - Spiral Fluted Taps with Internal Coolant

全鎢鋼內冷螺旋絲攻

P	M	K	N	S	H
○		●	●		

Specification

- Thread type : ISO M
- ANAX Smooth Coating
- For cast iron, brass casting, aluminum casting and steel.
- Vc = 10~50 m/min
- Recommend for blind hole.



JIS Unit:mm

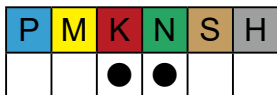
Order No.	Thread	LC	THL	LU	LF	DCON	LK	DRVS	Flutes	TAP Limit	Drill Hole
TKSCM306010031A	M6×1.00		19	29	70	6	7	4.5	3	OH3	5.0
TKSCM308012531A	M8×1.25		22	-	75	6.2	8	5	3		6.75
TKSCM310012531A	M10×1.25	2~3P	24	-	75	7	8	5.5	3		8.5
TKSCM310012631A	M10×1.50		24	-	75	7	8	5.5	3	OH4	8.5
TKSCM312012531A	M12×1.25		29	-	95	8.5	9	6.5	3		10.25
TKSCM312017531A	M12×1.75		29	-	95	8.5	9	6.5	3		10.25

DIN 371

Order No.	Thread	LC	THL	LU	LF	DCON	LK	DRVS	Flutes	TAP Limit	Drill Hole
TKSCM305008033A	M5×0.80		16	24	70	6	8	4.9	3		4.2
TKSCM306010033A	M6×1.00	Form C (2~3P)	19	29	70	6	8	4.9	3	6HX	5.0
TKSCM308012533A	M8×1.25		22	32	75	8	9	6.2	3		6.75
TKSCM310015033A	M10×1.50		24	40	75	10	11	8	3		8.5

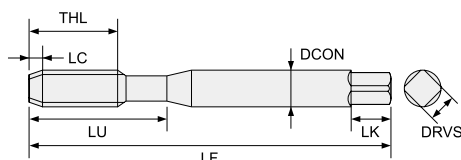
TKT - Straight Fluted Taps

全鎢鋼直刃絲攻



Specification

- Thread type : ISO M
- For cast iron, brass casting and aluminum casting.
- Recommend for through hole.
- ANAX Smooth Coating
- Vc = 5~15 m/min



JIS Unit:mm

Order No.	Thread	LC	THL	LU	LF	DCON	LK	DRVS	Flutes	TAP Limit	Drill Hole
TKTNM403005031A	M3×0.50		11	19	65	4	6	3.2	4		2.5
TKTNM404007031A	M4×0.70		13	21	65	5	7	4	4		3.3
TKTNM405008031A	M5×0.80		16	24	70	5.5	7	4.5	4		4.2
TKTNM506010031A	M6×1.00		19	29	70	6	7	4.5	5		5.0
TKTNM508010031A	M8×1.00		22	-	75	6.2	8	5	5	OH3	7.0
TKTNM508012531A	M8×1.25	3P	22	-	75	6.2	8	5	5		6.75
TKTNM510010031A	M10×1.00		24	-	75	7	8	5.5	5		9.0
TKTNM510015031A	M10×1.50		24	-	75	7	8	5.5	5		8.5
TKTNM512015031A	M12×1.50		29	-	95	8.5	9	6.5	5		10.5
TKTNM512017531A	M12×1.75		29	-	95	8.5	9	6.5	5		10.25
TKTNM616020031A	M16×2.00		32	-	95	12.5	13	10	6	OH4	14

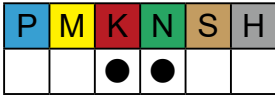
DIN 371

Order No.	Thread	LC	THL	LU	LF	DCON	LK	DRVS	Flutes	TAP Limit	Drill Hole
TKTNM403005053A	M3×0.50		11	19	65	4.5	6	3.4	4		2.5
TKTNM404007053A	M4×0.70		13	21	65	4.5	6	3.4	4		3.3
TKTNM405008053A	M5×0.80		16	24	70	6	8	4.9	4		4.2
TKTNM406010053A	M6×1.00		19	29	70	6	8	4.9	4		5.0
TKTNM508010053A	M8×1.00		22	32	75	8	9	6.2	5		7.0
TKTNM508012553A	M8×1.25	Form D (3.5~5P)	22	32	75	8	9	6.2	5	6H	6.75
TKTNM510010053A	M10×1.00		24	40	75	10	11	8	5		9.0
TKTNM510015053A	M10×1.50		24	40	75	10	11	8	5		8.5
TKTNM512015053A	M12×1.50		29	48	85	12	12	9	5		10.5
TKTNM512017553A	M12×1.75		29	48	85	12	12	9	5		10.25
TKTNM516020053A	M16×2.00		32	48	95	16	15	12	5		14

Threading

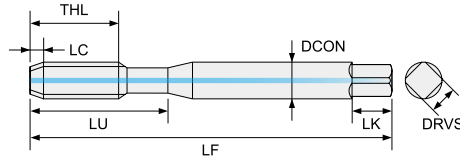
TKT - Straight Fluted Taps with Internal Coolant

全鎢鋼內冷直刃絲攻



Specification

- Thread type : ISO M
- For cast iron, brass casting and aluminum casting.
- Recommend for blind hole.
- ANAX Smooth Coating
- Vc = 10~50 m/min



JIS Unit:mm

Order No.	Thread	LC	THL	LU	LF	DCON	LK	DRVS	Flutes	TAP Limit	Drill Hole
TKTCM403005031A	M3×0.50		11	19	65	4	6	3.2	4		2.5
TKTCM404007031A	M4×0.70		13	21	65	5	7	4	4		3.3
TKTCM405008031A	M5×0.80		16	24	70	5.5	7	4.5	4		4.2
TKTCM506010031A	M6×1.00		19	29	70	6	7	4.5	5		5.0
TKTCM508010031A	M8×1.00		22	-	75	6.2	8	5	5	OH3	7.0
TKTCM508012531A	M8×1.25	3P	22	-	75	6.2	8	5	5		6.75
TKTCM510010031A	M10×1.00		24	-	75	7	8	5.5	5		9.0
TKTCM510015031A	M10×1.50		24	-	75	7	8	5.5	5		8.5
TKTCM512015031A	M12×1.50		29	-	95	8.5	9	6.5	5		10.5
TKTCM512017531A	M12×1.75		29	-	95	8.5	9	6.5	5		10.25
TKTCM616020031A	M16×2.00		32	-	95	12.5	13	10	6	OH4	14

DIN 371

Order No.	Thread	LC	THL	LU	LF	DCON	LK	DRVS	Flutes	TAP Limit	Drill Hole
TKTCM403005053A	M3×0.50		11	19	65	4.5	6	3.4	4		2.5
TKTCM404007053A	M4×0.70		13	21	65	4.5	6	3.4	4		3.3
TKTCM405008053A	M5×0.80		16	24	70	6	8	4.9	4		4.2
TKTCM406010053A	M6×1.00		19	29	70	6	8	4.9	4		5.0
TKTCM508010053A	M8×1.00		22	32	75	8	9	6.2	5		7.0
TKTCM508012553A	M8×1.25	Form D (3.5~5P)	22	32	75	8	9	6.2	5	6H	6.75
TKTCM510010053A	M10×1.00		24	40	75	10	11	8	5		9.0
TKTCM510015053A	M10×1.50		24	40	75	10	11	8	5		8.5
TKTCM512015053A	M12×1.50		29	48	85	12	12	9	5		10.5
TKTCM512017553A	M12×1.75		29	48	85	12	12	9	5		10.25
TKTCM516020053A	M16×2.00		32	48	95	16	15	12	5		14

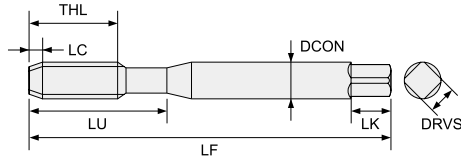
THT - Straight Fluted Taps

全鎢鋼直刃絲攻



Specification

- Thread type : ISO M
- For hardened steel (HRC 40 ~ 55)
- Recommend for through hole.
- ANAX Smooth Coating
- Vc = 2~4 m/min



JIS Unit:mm

Order No.	Thread	LC	THL	LU	LF	DCON	LK	DRVS	Flutes	TAP Limit	Drill Hole
THTNM403005031A	M3×0.50		11	19	65	4	6	3.2	4		2.5
THTNM404007031A	M4×0.70		13	21	65	5	7	4	4		3.3
THTNM405008031A	M5×0.80		16	24	70	5.5	7	4.5	4		4.2
THTNM506010031A	M6×1.00		19	29	70	6	7	4.5	5		5.0
THTNM508010031A	M8×1.00		22	-	75	6.2	8	5	5	OH3	7.0
THTNM508012531A	M8×1.25	3P	22	-	75	6.2	8	5	5		6.75
THTNM510010031A	M10×1.00		24	-	75	7	8	5.5	5		9.0
THTNM510015031A	M10×1.50		24	-	75	7	8	5.5	5		8.5
THTNM512015031A	M12×1.50		29	-	95	8.5	9	6.5	5		10.5
THTNM512017531A	M12×1.75		29	-	95	8.5	9	6.5	5		10.25
THTNM616020031A	M16×2.00		32	-	95	12.5	13	10	6	OH4	14

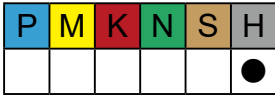
DIN 371

Order No.	Thread	LC	THL	LU	LF	DCON	LK	DRVS	Flutes	TAP Limit	Drill Hole
THTNM403005053A	M3×0.50		11	19	65	4.5	6	3.4	4		2.5
THTNM404007053A	M4×0.70		13	21	65	4.5	6	3.4	4		3.3
THTNM405008053A	M5×0.80		16	24	70	6	8	4.9	4		4.2
THTNM406010053A	M6×1.00		19	29	70	6	8	4.9	4		5.0
THTNM508010053A	M8×1.00		22	32	75	8	9	6.2	5		7.0
THTNM508012553A	M8×1.25	Form D (3.5~5P)	22	32	75	8	9	6.2	5	6H	6.75
THTNM510010053A	M10×1.00		24	40	75	10	11	8	5		9.0
THTNM510015053A	M10×1.50		24	40	75	10	11	8	5		8.5
THTNM512015053A	M12×1.50		29	48	85	12	12	9	5		10.5
THTNM512017553A	M12×1.75		29	48	85	12	12	9	5		10.25
THTNM516020053A	M16×2.00		32	48	95	16	15	12	5		14

Threading

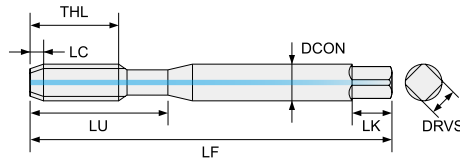
THT - Straight Fluted Taps with Internal Coolant

全鎢鋼內冷直刃絲攻



Specification

- Thread type : ISO M
- For hardened steel (HRC 40 ~ 55)
- Recommend for blind hole.
- ANAX Smooth Coating
- Vc = 2~4 m/min



JIS Unit:mm

Order No.	Thread	LC	THL	LU	LF	DCON	LK	DRVS	Flutes	TAP Limit	Drill Hole
THTCM403005031A	M3×0.50		11	19	65	4	6	3.2	4		2.5
THTCM404007031A	M4×0.70		13	21	65	5	7	4	4		3.3
THTCM405008031A	M5×0.80		16	24	70	5.5	7	4.5	4		4.2
THTCM506010031A	M6×1.00		19	29	70	6	7	4.5	5		5.0
THTCM508010031A	M8×1.00		22	-	75	6.2	8	5	5	OH3	7.0
THTCM508012531A	M8×1.25	3P	22	-	75	6.2	8	5	5		6.75
THTCM510010031A	M10×1.00		24	-	75	7	8	5.5	5		9.0
THTCM510015031A	M10×1.50		24	-	75	7	8	5.5	5		8.5
THTCM512015031A	M12×1.50		29	-	95	8.5	9	6.5	5		10.5
THTCM512017531A	M12×1.75		29	-	95	8.5	9	6.5	5		10.25
THTCM616020031A	M16×2.00		32	-	95	12.5	13	10	6	OH4	14

DIN 371

Order No.	Thread	LC	THL	LU	LF	DCON	LK	DRVS	Flutes	TAP Limit	Drill Hole
THTCM403005053A	M3×0.50		11	19	65	4.5	6	3.4	4		2.5
THTCM404007053A	M4×0.70		13	21	65	4.5	6	3.4	4		3.3
THTCM405008053A	M5×0.80		16	24	70	6	8	4.9	4		4.2
THTCM406010053A	M6×1.00		19	29	70	6	8	4.9	4		5.0
THTCM508010053A	M8×1.00		22	32	75	8	9	6.2	5		7.0
THTCM508012553A	M8×1.25	Form D (3.5~5P)	22	32	75	8	9	6.2	5	6H	6.75
THTCM510010053A	M10×1.00		24	40	75	10	11	8	5		9.0
THTCM510015053A	M10×1.50		24	40	75	10	11	8	5		8.5
THTCM512015053A	M12×1.50		29	48	85	12	12	9	5		10.5
THTCM512017553A	M12×1.75		29	48	85	12	12	9	5		10.25
THTCM516020053A	M16×2.00		32	48	95	16	15	12	5		14

TNF - Forming Taps

全鎢鋼無屑絲攻

P	M	K	N	S	H
			●		

Specification

- Thread type : ISO M · For aluminum alloy and copper.
- Chamfer Length(LC) 4P for through holes, 2P for blind holes · Vc = 15~30 m/min
- Suitable for through or blind hole.



Fig. 1

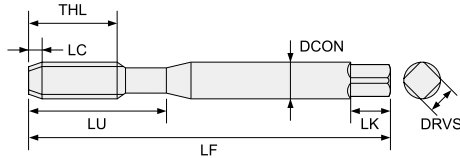
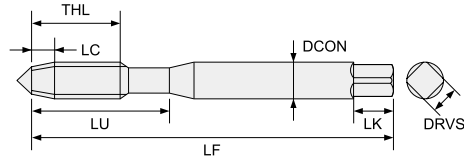


Fig. 2



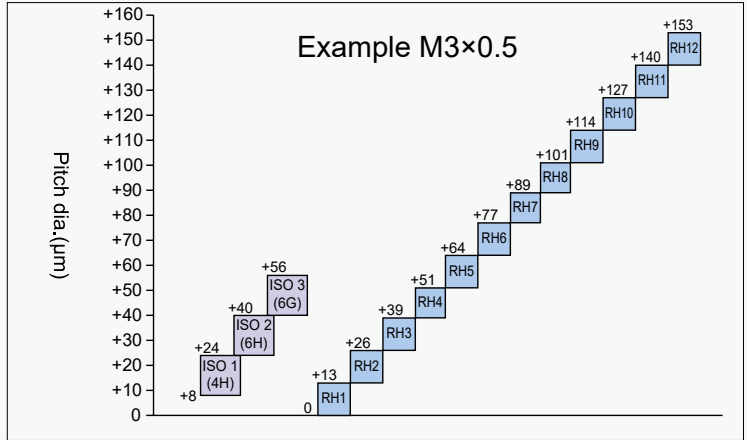
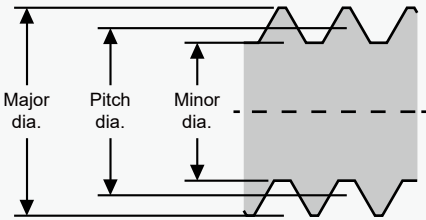
Unit:mm

Order No.	Thread	LC	THL	LU	LF	DCON	LK	DRVS	Cutting Edges	Fig	TAP Limit	Drill Hole
TNFNM401002541	M1×0.25	4P	6	-	50	3	5	2.5	4	2	RH4	0.92
TNFNM401202541	M1.2×0.25	4P	6	-	50	3	5	2.5	4	2	RH4	1.12
TNFNM401403041	M1.4×0.30	4P	6	-	50	3	5	2.5	4	2	RH4	1.29
TNFNM402004021	M2×0.40	2P	8	-	50	3	5	2.5	4	1	RH4	1.85
TNFNM402004041	M2×0.40	4P	8	-	50	3	5	2.5	4	2	RH4	1.85
TNFNM403005021	M3×0.50	2P	11	19	50	4	6	3.2	4	1	RH5	2.8
TNFNM403005041	M3×0.50	4P	11	19	50	4	6	3.2	4	2	RH5	2.8
TNFNM404007021	M4×0.70	2P	13	21	50	5	7	4	4	1	RH6	3.7
TNFNM404007041	M4×0.70	4P	13	21	50	5	7	4	4	2	RH6	3.7
TNFNM405008021	M5×0.80	2P	16	24	60	6	7	4.5	4	1	RH7	4.65
TNFNM405008041	M5×0.80	4P	16	24	60	6	7	4.5	4	2	RH7	4.65
TNFNM406010021	M6×1.00	2P	19	29	60	6	7	4.5	4	1	RH7	5.55
TNFNM406010041	M6×1.00	4P	19	29	60	6	7	4.5	4	2	RH7	5.55

**RH Limit 精度**

Upper limit :  $0.0127 \times n$   
 Lower limit :  $0.0127 \times n - 0.0127$

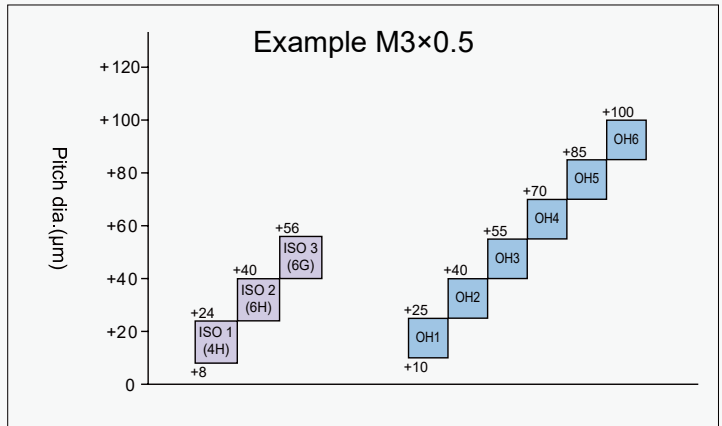
(n=RH number, Unit:mm)



**OH Limit 精度**

Pitch  $\leq 0.6$   
 Upper limit :  $0.010+0.015 \times n$   
 Lower limit : (upper limit)-0.015

(n=OH number, Unit:mm)



Pitch  $\geq 0.7$   
 Upper limit :  $0.020 \times n$   
 Lower limit : (upper limit)-0.020

(n=OH number, Unit:mm)

