鎢鋼銑牙刀系列

Carbide Thread Mills Series

泛用鋼材≦50HRC	不銹鋼
鋁合金 / 銅合金	鑄鐵
鈦合金	

For general steel (≦50HRC), stainless steel, cast iron, aluminum/copper alloy and titanium alloy machining.

產品選擇表 Product Selection Table

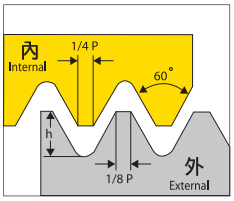
刀型 Type	刃數 Flute	型號 Model Number	產品類別 Product Classification	形狀 Appearance	尺寸 Size	頁數 Page
銑牙刀系列 Carbide Thread Mills						
多功能 鑽銑牙刀 Multipurpose Thread Cutter (Drill-Thread-Chamfer)	二刃 2 Flutes	CSHI200000-000A	內螺紋-ISO規格 -Internal-ISO		Ø5.0 ~ Ø10.3	182
	單刃 1 Flute	MSHIA100000-000A	內螺紋-ISO規格 -Internal-ISO		Ø0.60~Ø1.21	183
	二刃 2 Flutes	MSHIA200000-000A	內螺紋-ISO規格 -Internal-ISO		Ø1.55~Ø4.00	183
	三刃 3 Flutes	MSHIA300000-000A	內螺紋-ISO規格 -Internal-ISO		Ø4.85~Ø7.90	183
	一刃 1 Flute	MSHIDA100000-000A	內螺紋-ISO規格 -Internal-ISO		Ø0.60~Ø1.21	184
	二刃 2 Flutes	MSHIDA200000-000A	內螺紋-ISO規格 -Internal-ISO		Ø1.55~Ø4.00	184
	三刃 3 Flutes	MSHIDA300000-000A	內螺紋-ISO規格 -Internal-ISO		Ø4.85~Ø7.90	184
直刃銑牙刀 Thread Straight Flute	三刃 3 Flutes	CTSE300000-000A	外螺紋-ISO規格 -External-ISO		Ø5.9 ~ Ø7.9	185
	五刃 5 Flutes	CTSE500000-000A	外螺紋-ISO規格 -External-ISO		Ø9.9~Ø19.9	185
	三刃 3 Flutes	CTSI300000-000A	外/內螺紋-ISO規格 -External-Internal-ISO		Ø3.0 ~ Ø7.9	186
	五刃 5 Flutes	CTSI500000-000A	外/內螺紋-ISO規格 -External-Internal-ISO		Ø9.9 ~ Ø19.9	186
	三刃 3 Flutes	CTSEU300000-000A	外螺紋-UN美製規格 -External-UN		Ø5.9 ~ Ø7.9	187
	五刃 5 Flutes	CTSEU500000-000A	外螺紋-UN美製規格 -External-UN		Ø9.9 ~ Ø19.9	187
	三刃 3 Flutes	CTSIU300000-000A	外/內螺紋-UN美製規格 -External-Internal-UN		Ø3.0 ~ Ø7.9	188
	五刃 5 Flutes	CTSIU500000-000A	外/內螺紋-UN美製規格 -External-Internal-UN		Ø9.9 ~ Ø19.9	188
螺旋銑牙刀 Thread Helix Flute	三刃 3 Flutes	MTHIA000000-000A	外/內螺紋-ISO規格 -External-Internal-ISO		Ø1.2 ~ Ø15.9	189
	三刃 3 Flutes	CTHI300000-000A	外/內螺紋-ISO規格 NEW SIZE -External-Internal-ISO		Ø2.2 ~ Ø7.7	190
	四刃 4 Flutes	CTHI400000-000A	外/內螺紋-ISO規格 -External-Internal-ISO		Ø3.9 ~ Ø15.9	190
	五刃 5 Flutes	CTHI500000-000A	外/內螺紋-ISO規格 -External-Internal-ISO		Ø13.9	190
	三刃 3 Flutes	MTHUA000000-000A	外/內螺紋-UN美製規格 NEW -External-Internal-UN		Ø1.4 ~ Ø9.55	192
	三刃 3 Flutes	CTHIU300000-000A	外/內螺紋-UN美製規格 -External-Internal-UN		Ø3.0 ~ Ø7.4	191
	四刃 4 Flutes	CTHIU400000-000A	外/內螺紋-UN美製規格 -External-Internal-UN		Ø9.2 ~ Ø17.0	191
	五刃 5 Flutes	CTHIU500000-000A	外/內螺紋-UN美製規格 -External-Internal-UN		Ø13.5~Ø19.9	191
	三/四/五刃 3/4/5 Flutes	CTHPT000000-000A	外/內螺紋-NPT美製規格 -External-Internal-NPT		Ø5.3 ~ Ø19.9	193

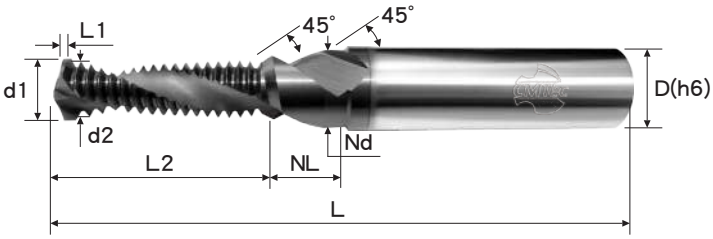
碳素鋼 Carbon Steels (<20HRC) P Carbon Steels (<20HRC)	合金鋼 Alloy Steels (20~30HRC) P Alloy Steels (20~30HRC)	合金鋼 Alloy Steels (30~45HRC) P Alloy Steels (30~45HRC)	調質鋼 Hardened Steels (45~55HRC) H Hardened Steels (45~55HRC)	調質鋼 Hardened Steels (55~65HRC) H Hardened Steels (55~65HRC)	不銹鋼 Stainless Steels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

鎢鋼多功能螺旋鑽銑牙刀(鑽孔-螺紋-倒角)-內螺紋用(ISO規格)

CARBIDE MULTIPURPOSE THREAD MILLS- DRILL-THREAD-CHAMFER- Helix Flute- Internal(ISO Metric)

· CSHI200000-000A

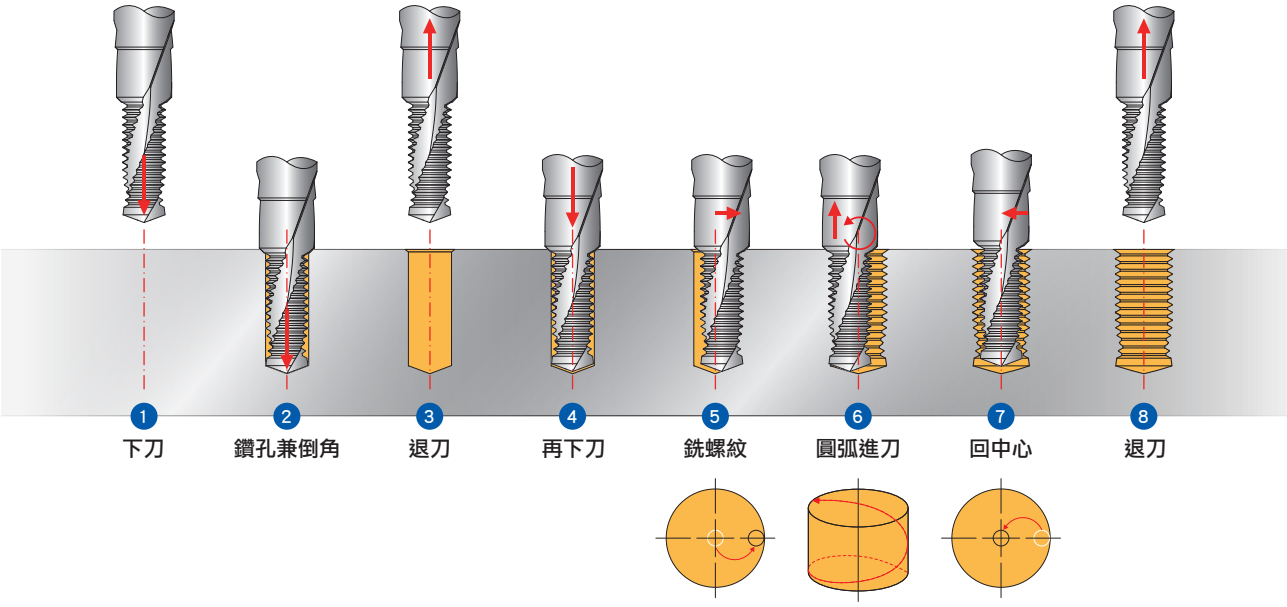




公差 Tolerance class
6g / 6H

MG TiAlN 26° Milling Table 60

螺紋 Thread 粗牙M	螺距 Pitch	d1	d2	L1	L2	Nd	NL	L	D	h (mm)	牙數 Teeth	刃數 Flute	鍍膜訂購編號 Coated Order No.
M6	1.00	5.0	4.85	1.0	14.5	6.6	9.5	60	8	0.58	11	2	CSHI205008-100A
M8	1.25	6.8	6.45	1.3	18.2	9.0	16.8	75	10	0.72	11	2	CSHI206810-125A
M10	1.50	8.5	8.08	1.5	23.4	11.0	11.6	80	12	0.87	12	2	CSHI208512-150A
M12	1.75	10.3	9.74	1.5	27.1	13.5	17.9	90	14	1.01	12	2	CSHI210314-175A

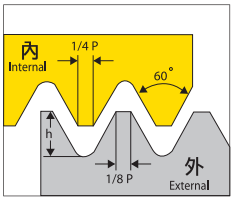


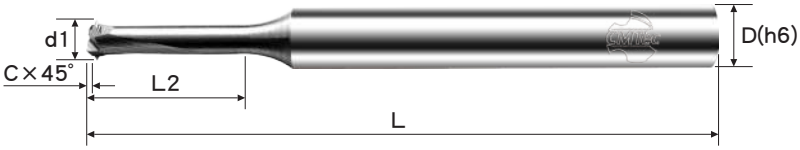
切削條件表 Cutting Condition P.565
下孔徑建議 Drill hole dia. P.652

鎢鋼多功能單/雙牙螺旋鑽銑牙刀(鑽孔-螺紋-倒角)- 鋁用- 內螺紋用(ISO規格)

CARBIDE MULTIPURPOSE THREAD MILLS- DRILL-CHAMFER-THREAD - Helix Flute- For Aluminum- Internal(ISO Metric)

· MSHIA1/2/3 00000-000



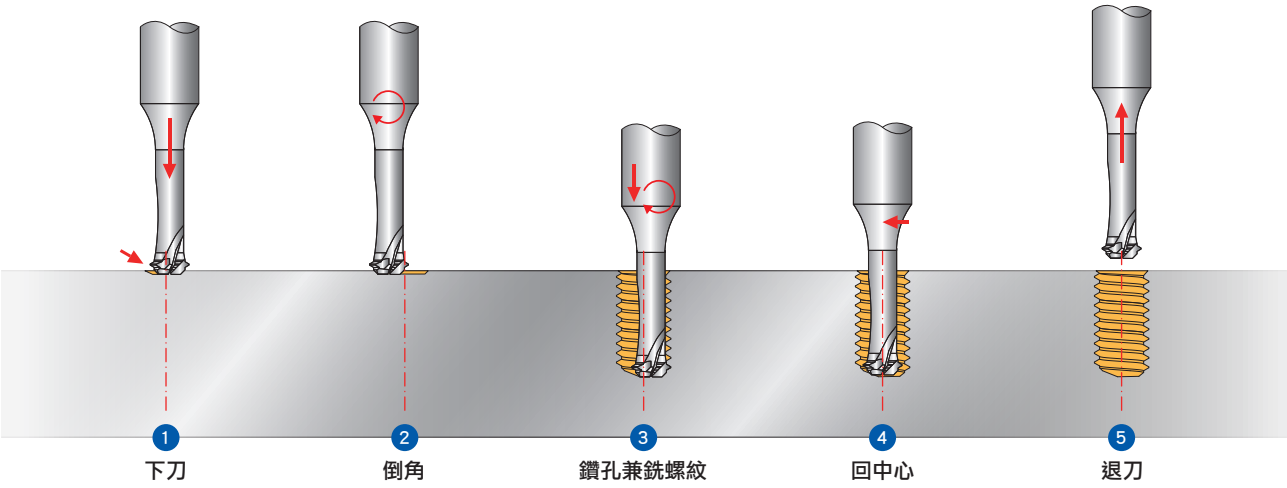


公差 Tolerance class
6g / 6H

UMG 15° Milling Table 77

切 削 實 例 CUT EXAMPLES

螺紋 Thread	螺距 Pitch	刃徑 d1	有效長 L2	全長 L	柄徑 D	倒角 Chamfer	牙數 Teeth	刃數 Flute	白刀訂購編號 Uncoated Order No.
M0.8	0.20	0.60	2.4	50	4	0.10	1	1	MSHIA100604-020
M0.9	0.225	0.66	2.7	50	4	0.12	1	1	MSHIA100604-022
M1.0	0.25	0.73	3.0	50	4	0.15	1	1	MSHIA100704-025
M1.2	0.25	0.92	3.6	50	4	0.15	1	1	MSHIA100904-025
M1.4	0.30	1.05	4.2	50	4	0.19	1	1	MSHIA101004-030
M1.6	0.35	1.21	4.8	50	4	0.22	1	1	MSHIA101204-035
M2.0	0.40	1.55	6.0	50	4	0.25	1	2	MSHIA201504-040
M2.5	0.45	2.00	7.5	50	4	0.29	1	2	MSHIA202004-045
M3.0	0.50	2.44	9.0	60	6	0.33	1	2	MSHIA202406-050
M4.0	0.70	3.20	12.0	60	6	0.45	1	2	MSHIA203206-070
M5.0	0.80	4.00	15.0	60	6	0.53	1	2	MSHIA204006-080
M6.0	1.00	4.85	18.0	75	6	0.65	2	3	MSHIA304806-100
M8.0	1.25	6.50	24.0	75	8	0.80	2	3	MSHIA306508-125
M10.0	1.50	7.90	30.0	75	8	1.00	2	3	MSHIA307908-150

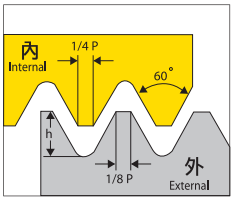


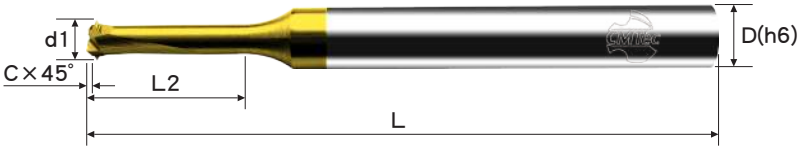
切削條件表 Cutting Condition P.576
下孔徑建議 Drill hole dia. P.652

鎢鋼多功能單/雙牙螺旋鑽銑牙刀(鑽孔-倒角-螺紋)- 硬材質用- 內螺紋用(ISO規格)

CARBIDE MULTIPURPOSE THREAD MILLS- DRILL-CHAMFER-THREAD - Helix Flute- For Hard Materials- Internal(ISO Metric)

· MSHIDA1/2/3 00000-000A



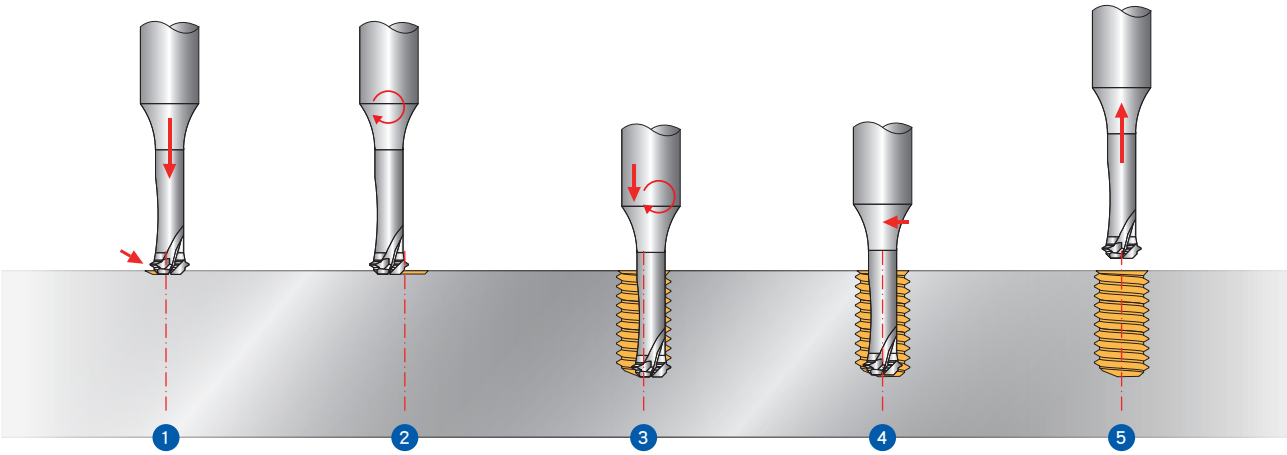


公差 Tolerance class
6g / 6H

UMG | TOP TiSIN | 15° | HRC 45 | Milling Table 77

切 削 實 例 CUT EXAMPLES

螺紋 Thread	螺距 Pitch	刃徑 d1	有效長 L2	全長 L	柄徑 D	倒角 Chamfer	牙數 Teeth	刃數 Flute	鍍膜訂購編號 Coated Order No.
M0.8	0.20	0.60	2.4	50	4	0.10	1	1	MSHIDA100604-020A
M0.9	0.225	0.66	2.7	50	4	0.12	1	1	MSHIDA100604-022A
M1.0	0.25	0.73	3.0	50	4	0.15	1	1	MSHIDA100704-025A
M1.2	0.25	0.92	3.6	50	4	0.15	1	1	MSHIDA100904-025A
M1.4	0.30	1.05	4.2	50	4	0.19	1	1	MSHIDA101004-030A
M1.6	0.35	1.21	4.8	50	4	0.22	1	1	MSHIDA101204-035A
M2.0	0.40	1.55	6.0	50	4	0.25	1	2	MSHIDA201504-040A
M2.5	0.45	2.00	7.5	50	4	0.29	1	2	MSHIDA202004-045A
M3.0	0.50	2.44	9.0	60	6	0.33	1	2	MSHIDA202406-050A
M4.0	0.70	3.20	12.0	60	6	0.45	1	2	MSHIDA203206-070A
M5.0	0.80	4.00	15.0	60	6	0.53	1	2	MSHIDA204006-080A
M6.0	1.00	4.85	18.0	75	6	0.65	2	3	MSHIDA304806-100A
M8.0	1.25	6.50	24.0	75	8	0.80	2	3	MSHIDA306508-125A
M10.0	1.50	7.90	30.0	75	8	1.00	2	3	MSHIDA307908-150A



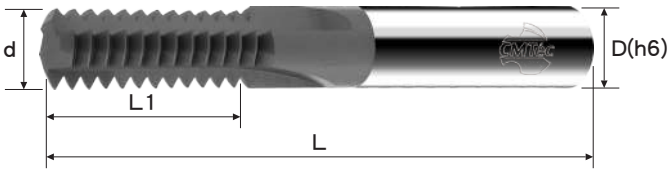
1 下刀　2 倒角　3 鑽孔兼銑螺紋　4 回中心　5 退刀

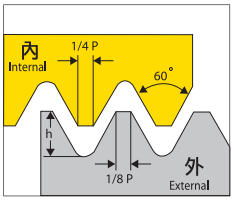
切削條件表 Cutting Condition P.576
下孔徑建議 Drill hole dia. P.652

鎢鋼直刃銑牙刀- 外螺紋用(ISO規格)

CARBIDE THREAD MILLS- Straight Flute- External(ISO Metric)

· CTSE000000-000A





公差 Tolerance class
6g / 6H

MG TiAlN Milling Table 61

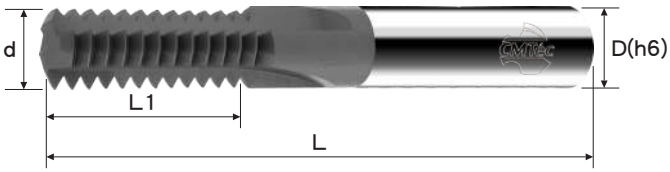
螺紋 Thread	螺距 Pitch	刃徑 d	刃長 L1	全長 L	柄徑 D	h (mm)	牙數 Teeth	刃數 Flute	鍍膜訂購編號 Coated Order No.
M3	0.50	5.9	15.0	60	6	0.31	30	3	CTSE305906-050A
M4.5	0.75	7.9	19.5	60	8	0.46	26	3	CTSE307908-075A
M6	1.00	9.9	24.0	75	10	0.61	24	5	CTSE509910-100A
M10	1.50	11.9	30.0	100	12	0.92	20	5	CTSE511912-150A
M14	2.00	11.9	30.0	100	12	1.23	15	5	CTSE511912-200A
M24	3.00	15.9	36.0	100	16	1.84	12	5	CTSE515916-300A
M36	4.00	15.9	40.0	100	16	2.45	10	5	CTSE515916-400A
M64	6.00	19.9	36.0	100	20	3.68	6	5	CTSE519920-600A

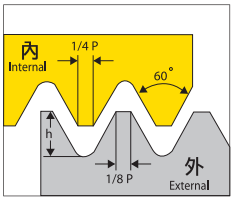
切削條件表 Cutting Condition P.566
下孔徑建議 Drill hole dia. P.652

鎢鋼直刃銑牙刀- 外/內螺紋用(ISO規格)

CARBIDE THREAD MILLS- Straight Flute- External / Internal(ISO Metric)

· CTSI000000-000A

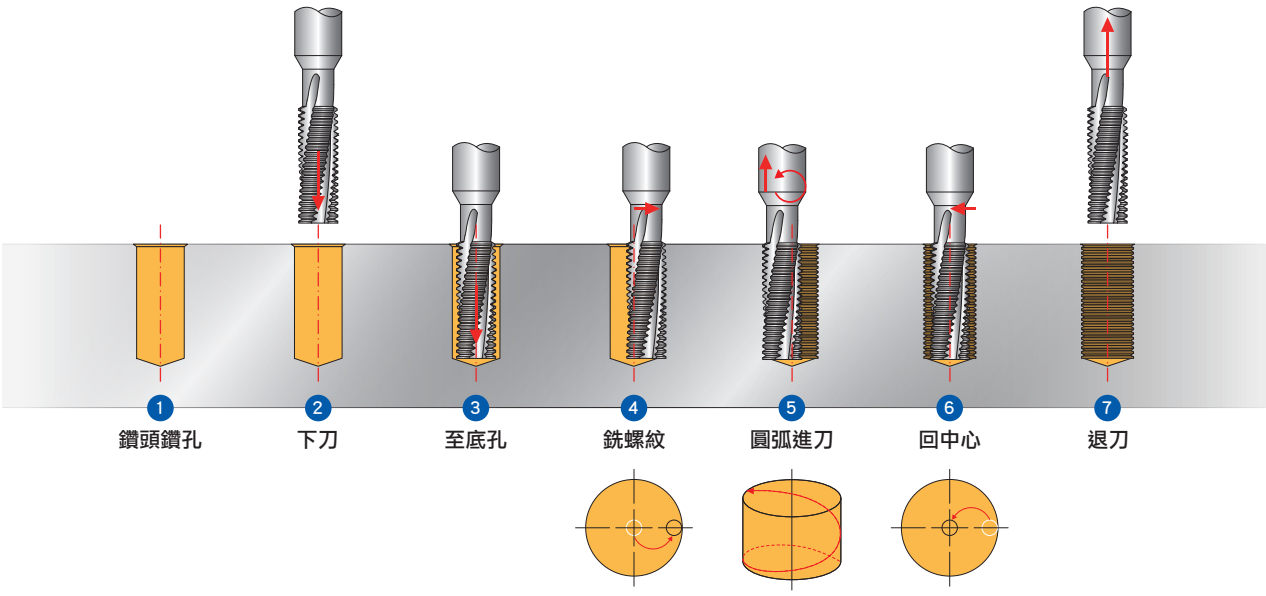




公差 Tolerance class
6g / 6H

MG TiAlN Milling Table 61

螺紋 Thread	螺距 Pitch	刃徑 d	刃長 L1	全長 L	柄徑 D	h (mm)	牙數 Teeth	刃數 Flute	鍍膜訂購編號 Coated Order No.
M4.5	0.75	3.0	6.7	50	4	0.43	9	3	CTSI303004-075A
M8	0.75	5.9	15.0	60	6	0.43	20	3	CTSI305906-075A
M5	0.80	3.6	8.0	50	4	0.46	10	3	CTSI303604-080A
M6	1.00	4.0	9.0	60	6	0.58	9	3	CTSI304006-100A
M12	1.00	7.9	20.0	60	8	0.58	20	3	CTSI307908-100A
M8	1.25	5.0	12.5	60	6	0.72	10	3	CTSI305006-125A
M10	1.50	5.9	15.0	60	6	0.87	10	3	CTSI305906-150A
M14	1.50	9.9	24.0	75	10	0.87	16	5	CTSI509910-150A
M18	1.50	11.9	30.0	100	12	0.87	20	5	CTSI511912-150A
M12	1.75	7.9	19.2	60	8	1.01	11	3	CTSI307908-175A
M16	2.00	9.9	24.0	75	10	1.15	12	5	CTSI509910-200A
M18	2.00	11.9	30.0	100	12	1.15	15	5	CTSI511912-200A
M20	2.50	11.9	30.0	100	12	1.44	12	5	CTSI511912-250A
M24	3.00	15.9	36.0	100	16	1.73	12	5	CTSI515916-300A
M30	3.50	15.9	38.5	100	16	2.02	11	5	CTSI515916-350A
M36	4.00	15.9	40.0	100	16	2.31	10	5	CTSI515916-400A
M48	5.00	19.9	40.0	100	20	2.89	8	5	CTSI519920-500A
M64	6.00	19.9	36.0	100	20	3.46	6	5	CTSI519920-600A

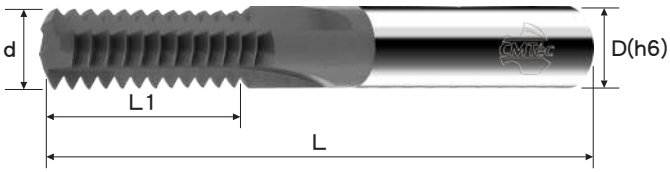


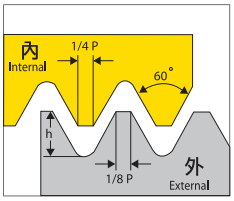
切削條件表 Cutting Condition P.566
下孔徑建議 Drill hole dia. P.652

鎢鋼直刃銑牙刀- 外螺紋用(UN美製規格)

CARBIDE THREAD MILLS- Straight Flute- External(American UN)

· CTSEU000000-000A





公差 Tolerance class
2A / 2B

MG TiAlN Milling Table 61

螺紋 Thread	牙/吋 Tpi	刃徑 d	刃長 L1	全長 L	柄徑 D	h (mm)	牙數 Teeth	刃數 Flute	鍍膜訂購編號 Coated Order No.
No.6	32	5.9	14.3	60	6	0.49	18	3	CTSEU305906-320A
No.12	28	7.9	19.9	60	8	0.56	22	3	CTSEU307908-280A
1/4"	20	9.9	22.9	75	10	0.78	18	5	CTSEU509910-200A
5/16"	18	9.9	24.0	75	10	0.87	17	5	CTSEU509910-180A
3/8"	16	11.9	28.6	100	12	0.97	18	5	CTSEU511912-160A
9/16"	12	11.9	29.6	100	12	1.30	14	5	CTSEU511912-120A
1"	8	15.9	38.1	100	16	1.95	12	5	CTSEU515916-080A
1 3/8"	6	19.9	38.1	100	20	2.60	9	5	CTSEU519920-060A

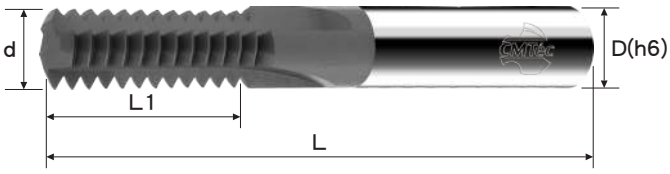
※ 25.4 ÷ Tpi (英制單位 Inch) = Pitch (公制單位 Metric)

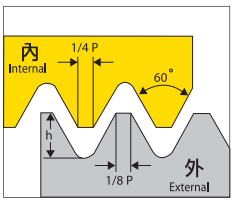
➡ 切削條件表 Cutting Condition P.566
➡ 下孔徑建議 Drill hole dia. P.657

鎢鋼直刃銑牙刀- 外/內螺紋用(UN美製規格)

CARBIDE THREAD MILLS- Straight Flute- External / Internal(American UN)

· CTSIU000000-000A





公差 Tolerance class
2A / 2B

MG TiAlN Milling Table 61

螺紋 Thread	牙/吋 Tpi	刃徑 d	刃長 L1	全長 L	柄徑 D	h (mm)	牙數 Teeth	刃數 Flute	鍍膜訂購編號 Coated Order No.
No.8	36	3.0	6.3	50	4	0.41	9	3	CTSIU303004-360A
No.8	32	3.0	6.3	50	4	0.46	8	3	CTSIU303004-320A
5/16"	32	5.9	14.3	60	6	0.46	18	3	CTSIU305906-320A
No.12	28	3.6	8.2	50	4	0.52	9	3	CTSIU303604-280A
7/16"	28	7.9	19.9	60	8	0.52	22	3	CTSIU307908-280A
No.12	24	4.0	8.5	60	6	0.61	8	3	CTSIU304006-240A
1/4"	20	4.0	10.2	60	6	0.73	8	3	CTSIU304006-200A
9/16"	20	9.9	22.9	75	10	0.73	18	5	CTSIU509910-200A
5/16"	18	5.0	12.7	60	6	0.81	9	3	CTSIU305006-180A
9/16"	18	9.9	24.0	75	10	0.81	17	5	CTSIU509910-180A
3/8"	16	5.9	14.3	60	6	0.92	9	3	CTSIU305906-160A
3/4"	16	11.9	28.6	100	12	0.92	18	5	CTSIU511912-160A
7/16"	14	7.9	18.1	60	8	1.05	10	3	CTSIU307908-140A
1/2"	13	7.9	19.5	60	8	1.13	10	3	CTSIU307908-130A
9/16"	12	9.9	23.3	75	10	1.22	11	5	CTSIU509910-120A
1"	12	11.9	29.6	100	12	1.22	14	5	CTSIU511912-120A
5/8"	11	9.9	23.1	75	10	1.33	10	5	CTSIU509910-110A
3/4"	10	11.9	27.9	100	12	1.47	11	5	CTSIU511912-100A
7/8"	9	15.9	33.3	100	16	1.63	12	5	CTSIU515916-090A
1"	8	15.9	38.1	100	16	1.83	12	5	CTSIU515916-080A
1 1/8"	7	15.9	36.3	100	16	2.09	10	5	CTSIU515916-070A
1 3/8"	6	19.9	38.1	100	20	2.44	9	5	CTSIU519920-060A
1 3/4"	5	19.9	40.6	100	20	2.93	8	5	CTSIU519920-050A
2"	4.5	19.9	39.5	100	20	3.26	7	5	CTSIU519920-045A

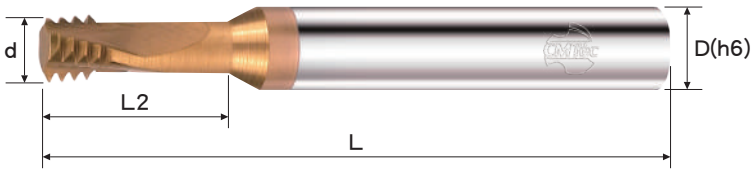
※ 25.4 ÷ Tpi (英制單位 Inch) = Pitch (公制單位 Metric)

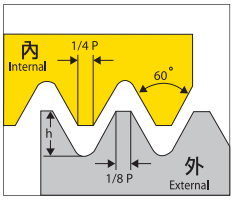
➡ 切削條件表 Cutting Condition P.566
➡ 下孔徑建議 Drill hole dia. P.657

鎢鋼螺旋銑牙刀- 外/內螺紋用(ISO規格)

CARBIDE THREAD MILLS- Helix Flute- External / Internal(ISO Metric)

· MTHIA000000-000A





公差 Tolerance class
6g / 6H

UMG 15° TOP TiSiN Milling Table 61

螺紋加工深度可到2d | 2d (L2 ≤ 2 x Thread Diameter)

螺紋 Thread		螺距 Pitch	刃徑 d	有效長 L2	全長 L	柄徑 D	牙數 Teeth	刃數 Flute	鍍膜訂購編號 Coated Order No.
M 粗牙	Mx1 細牙								
M1.6		0.35	1.20	3.4	50	3	3	3	MTHIA301203-035A
M2.0		0.40	1.55	4.2	60	6	3	3	MTHIA301506-040A
M2.2		0.45	1.65	4.6	60	6	3	3	MTHIA301606-045A
M2.5		0.45	1.95	5.2	60	6	3	3	MTHIA301906-045A
M3.0	M3.5~M16	0.50	2.40	6.2	60	6	3	3	MTHIA302406-050A
M3.5		0.60	2.75	7.3	60	6	3	3	MTHIA302706-060A
M4.0		0.70	3.15	8.3	60	6	3	3	MTHIA303106-070A
M5.0		0.80	4.05	10.4	60	6	3	3	MTHIA304006-080A
M6.0	M8.0~M40	1.00	4.80	12.5	60	6	3	3	MTHIA304806-100A
M8.0		1.25	6.50	16.6	60	8	3	3	MTHIA306508-125A
M10	M12~M48	1.50	8.20	20.8	75	10	3	3	MTHIA308210-150A
M12		1.75	9.90	25.0	75	10	3	3	MTHIA309910-175A
M16		2.00	11.90	33.0	100	12	3	3	MTHIA311912-200A
M20		2.50	15.90	41.3	100	16	3	3	MTHIA315916-250A

螺紋加工深度可到3d | 3d (L2 ≤ 3 x Thread Diameter)

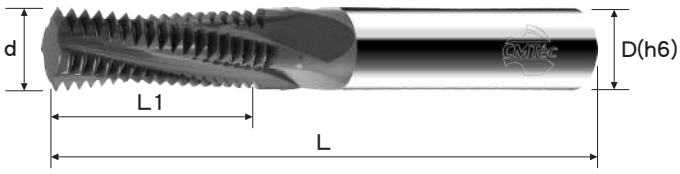
螺紋 Thread		螺距 Pitch	刃徑 d	有效長 L2	全長 L	柄徑 D	牙數 Teeth	刃數 Flute	鍍膜訂購編號 Coated Order No.
M 粗牙	Mx1 細牙								
M1.6		0.35	1.20	5.0	50	3	3	3	MTHIA301203050-035A
M2.0		0.40	1.55	6.2	60	6	3	3	MTHIA301506062-040A
M2.5		0.45	1.95	7.7	60	6	3	3	MTHIA301906077-045A
M3.0	M3.5~M16	0.50	2.40	9.2	60	6	3	3	MTHIA302406092-050A
M4.0		0.70	3.15	12.3	60	6	3	3	MTHIA303106123-070A
M5.0		0.80	4.05	15.4	60	6	3	3	MTHIA304006154-080A
M6.0	M8.0~M40	1.00	4.80	18.5	60	6	3	3	MTHIA304806185-100A
M8.0		1.25	6.50	24.6	60	8	3	3	MTHIA306508246-125A

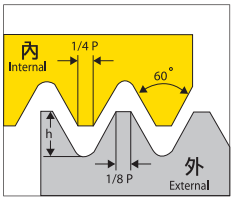
切削條件表 Cutting Condition P.566
下孔徑建議 Drill hole dia. P.652

鎢鋼螺旋銑牙刀- 外/內螺紋用(ISO規格)

CARBIDE THREAD MILLS- Helix Flute- External / Internal(ISO Metric)

· CTHI000000-000A





公差 Tolerance class
6g / 6H

MG TiAlN 15° Milling Table 61

NEW SIZE

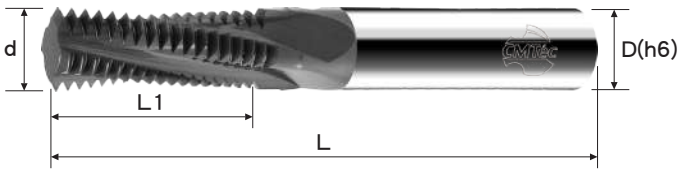
螺紋 Thread		螺距 Pitch	刃徑 d	刃長 L1	全長 L	柄徑 D	h (mm)	牙數 Teeth	刃數 Flute	鍍膜訂購編號 Coated Order No.
M粗牙	Mx1細牙									
		0.35	3.9	10.15	50	4	0.20	29	4	CTHI403904-035A
M3	M3.5~M16	0.50	2.2	6.00	50	4	0.29	12	3	CTHI302204-050A
	M4	0.50	3.0	8.00	50	4	0.29	16	3	CTHI303004-050A
	M5	0.50	3.9	10.00	50	4	0.29	20	3	CTHI303904-050A
M4		0.70	2.8	8.40	50	4	0.40	12	3	CTHI302804-070A
	M6	0.75	3.9	12.00	50	4	0.43	16	3	CTHI303904-075A
		0.793	6.0	15.00	60	6	0.46	19	3	CTHI306006-079A
		0.793	7.9	20.00	60	8	0.46	25	3	CTHI307908-079A
M5		0.80	3.5	10.40	50	4	0.46	13	3	CTHI303504-080A
M6	M8~M40	1.00	3.9	12.00	50	4	0.58	12	3	CTHI303904-100A
		1.00	3.9	15.00	50	4	0.58	15	3	CTHI303904-100150CA
	M8	1.00	5.9	16.00	60	6	0.58	16	3	CTHI305906-100A
	M10	1.00	7.9	20.00	60	8	0.58	20	3	CTHI307908-100A
	M12	1.00	9.9	24.00	75	10	0.58	24	4	CTHI409910-100A
		1.00	11.9	25.00	75	12	0.58	25	4	CTHI411912-100A
		1.058	5.9	15.00	60	6	0.61	15	3	CTHI305906-105A
M8		1.25	5.8	16.25	60	6	0.72	13	3	CTHI305806-125A
	M10	1.25	7.7	20.00	60	8	0.72	16	3	CTHI307708-125A
		1.27	9.9	25.00	75	10	0.73	20	4	CTHI409910-127A
		1.41	9.9	25.00	75	10	0.81	18	4	CTHI409910-141A
M10	M12~M48	1.50	7.7	21.00	60	8	0.87	14	3	CTHI307708-150A
	M12	1.50	9.4	24.00	75	10	0.87	16	4	CTHI409410-150A
	M14	1.50	11.2	28.50	100	12	0.87	19	4	CTHI411212-150A
	M16	1.50	11.9	33.00	100	12	0.87	22	4	CTHI411912-150A
		1.587	9.9	25.00	75	10	0.92	16	4	CTHI409910-158A
M12		1.75	8.7	24.50	75	10	1.01	14	4	CTHI408710-175A
M14	M17~M80	2.00	9.9	28.00	75	10	1.15	14	4	CTHI409910-200A
M16	M17~M80	2.00	11.9	32.00	100	12	1.15	16	4	CTHI411912-200A
M18~M22		2.50	13.9	40.00	100	16	1.44	16	5	CTHI513916-250A
M24		3.00	15.9	42.00	100	16	1.73	14	4	CTHI415916-300A

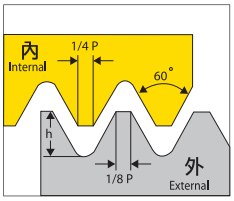
切削條件表 Cutting Condition P.566
下孔徑建議 Drill hole dia. P.652

鎢鋼螺旋銑牙刀- 外/內螺紋用(UN美製規格)

CARBIDE THREAD MILLS- Helix Flute- External / Internal(American UN)

· CTHIU000000-000A





公差 Tolerance class
2A / 2B

MG TiAlN 15° Milling Table 61

螺紋 Thread			牙/吋 Tpi	刃徑 d	刃長 L1	全長 L	柄徑 D	h (mm)	牙數 Teeth	刃數 Flute	鍍膜訂購編號 Coated Order No.
UNC 粗牙	UNF 細牙	UNEF 超細牙									
	No.8		36	3.0	8.5	50	4	0.41	12	3	CTHIU303004-360A
	No.10	No.12-3/8"	32	3.3	11.1	50	4	0.46	14	3	CTHIU303304-320A
	No.12，1/4"	7/16"，1/2"	28	3.8	11.8	50	4	0.52	13	3	CTHIU303804-280A
	1/4"	7/16"，1/2"	28	4.6	12.7	60	6	0.52	14	3	CTHIU304606-280A
		7/16"，1/2"	28	9.2	22.7	75	10	0.52	25	4	CTHIU409210-280A
No.10	5/16"，3/8"	9/16"-11/16"	24	2.9	10.6	50	4	0.61	10	3	CTHIU302904-240A
No.12	5/16"，3/8"	9/16"-11/16"	24	3.5	11.6	50	4	0.61	11	3	CTHIU303504-240A
	5/16"，3/8"	9/16"-11/16"	24	5.7	15.9	60	6	0.61	15	3	CTHIU305706-240A
	3/8"	9/16"-11/16"	24	7.4	19.1	60	8	0.61	18	3	CTHIU307408-240A
		9/16"-11/16"	24	11.9	28.6	100	12	0.61	27	4	CTHIU411912-240A
1/4"	7/16"，1/2"	3/4"-1"	20	3.9	12.7	50	4	0.73	10	3	CTHIU303904-200A
	7/16"，1/2"	3/4"-1"	20	8.5	22.9	75	10	0.73	18	4	CTHIU408510-200A
	1/2"	3/4"-1"	20	9.9	25.4	75	10	0.73	20	4	CTHIU409910-200A
		3/4"-1"	20	15.9	38.1	100	16	0.73	30	5	CTHIU515916-200A
5/16"	9/16"，5/8"	11/16"-1 11/16"	18	5.2	16.9	60	6	0.81	12	3	CTHIU305206-180A
	9/16"，5/8"	11/16"-1 11/16"	18	11.3	29.6	100	12	0.81	21	4	CTHIU411312-180A
	5/8"	11/16"-1 11/16"	18	11.9	32.5	100	12	0.81	23	4	CTHIU411912-180A
3/8"	3/4"		16	6.7	19.1	60	8	0.92	12	3	CTHIU306708-160A
	3/4"		16	15.9	38.1	100	16	0.92	24	4	CTHIU415916-160A
7/16"	7/8"		14	7.6	23.6	60	8	1.05	13	4	CTHIU407608-140A
	7/8"		14	18.7	44.4	100	20	1.05	24	4	CTHIU418720-140A
1/2"			13	8.9	25.4	75	10	1.13	13	4	CTHIU408910-130A
9/16"	1"-1 1/2"		12	10.3	29.6	100	12	1.22	14	4	CTHIU410312-120A
	1"-1 1/2"		12	19.9	50.8	100	20	1.22	24	5	CTHIU519920-120A
5/8"			11	11.0	32.3	100	12	1.33	14	4	CTHIU411012-110A
3/4"			10	13.5	38.1	100	16	1.47	15	5	CTHIU513516-100A
7/8"			9	15.2	45.2	100	16	1.63	16	4	CTHIU415216-090A
1"			8	17.0	50.8	100	20	1.83	16	4	CTHIU417020-080A

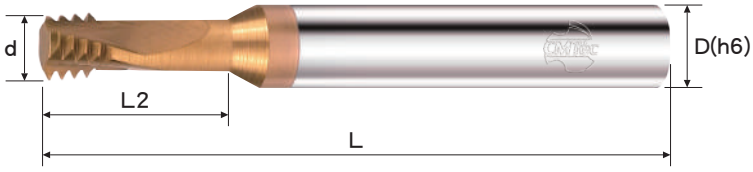
※ 25.4 ÷ Tpi (英制單位 Inch) = Pitch (公制單位 Metric)

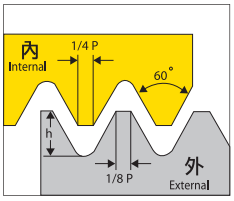
切削條件表 Cutting Condition P.566
下孔徑建議 Drill hole dia. P.657

鎢鋼螺旋銑牙刀- 外/內螺紋用(UN美製規格)

CARBIDE THREAD MILLS- Helix Flute- External / Internal(American UN)

· MTHUA000000-000A





公差 Tolerance class
2A / 2B

UMG 15° TOP TiSiN Milling Table 61

NEW

螺紋加工深度可到2d ｜ 2d (L2 ≤ 2 x Thread Diameter)

螺紋 Thread		牙/吋 Tpi	刃徑 d	有效長 L2	全長 L	柄徑 D	牙數 Teeth	刃數 Flute	鍍膜訂購編號 Coated Order No.
UNC 粗牙	UNF 細牙								
	No.1	72	1.45	3.9	60	6	3	3	MTHUA301406-720A
No.1	No.2	64	1.40	4.2	60	6	3	3	MTHUA301406-640A
No.2	No.3	56	1.65	5.0	60	6	3	3	MTHUA301606-560A
No.3	No.4	48	1.90	6.0	60	6	3	3	MTHUA301906-480A
No.4，No.5	No.6	40	2.10	6.0	60	6	3	3	MTHUA302106-400A
No.5	No.6	40	2.45	7.2	60	6	3	3	MTHUA302406-400A
	No.8	36	3.30	8.7	60	6	3	3	MTHUA303306-360A
No.6，No.8	No.10	32	2.55	7.4	60	6	3	3	MTHUA302506-320A
No.8	No.10	32	3.20	10.0	60	6	3	3	MTHUA303206-320A
	No.10	32	3.80	10.3	60	6	3	3	MTHUA303806-320A
	1/4"	28	5.25	13.2	60	6	3	3	MTHUA305206-280A
No.10	5/16"	24	3.58	10.2	60	6	3	3	MTHUA303506-240A
	5/16"	24	6.68	16.5	60	8	3	3	MTHUA306608-240A
1/4"	7/16"	20	4.88	13.4	60	6	3	3	MTHUA304806-200A
	7/16"	20	9.55	23.0	75	10	3	3	MTHUA309510-200A
5/16"		18	6.15	16.9	60	8	3	3	MTHUA306108-180A
3/8"		16	6.70	19.1	60	8	3	3	MTHUA306708-160A
7/16"		14	9.00	23.3	75	10	3	3	MTHUA309010-140A

螺紋加工深度可到3d ｜ 3d (L2 ≤ 3 x Thread Diameter)

螺紋 Thread		牙/吋 Tpi	刃徑 d	有效長 L2	全長 L	柄徑 D	牙數 Teeth	刃數 Flute	鍍膜訂購編號 Coated Order No.
UNC 粗牙	UNF 細牙								
	No.1	72	1.45	5.75	60	6	3	3	MTHUA301406057-720A
No.2	No.3	56	1.65	7.00	50	3	3	3	MTHUA301603070-560A
No.4，No.5	No.6	40	2.10	9.00	50	3	3	3	MTHUA302103090-400A
No.4，No.5	No.6	40	2.10	9.00	60	6	3	3	MTHUA302106090-400A
No.5	No.6	40	2.45	10.0	60	6	3	3	MTHUA302406100-400A
No.6，No.8	No.10	32	2.55	11.0	60	6	3	3	MTHUA302506110-320A
No.8	No.10	32	3.20	13.0	60	6	3	3	MTHUA303206130-320A
	No.10	32	3.80	15.1	60	6	3	3	MTHUA303806151-320A
No.12	1/4"	28	4.40	17.0	60	6	3	3	MTHUA304406170-280A
	1/4"	28	5.25	19.6	60	6	3	3	MTHUA305206196-280A
	5/16"	24	6.68	24.5	60	8	3	3	MTHUA306608245-240A
1/4"	7/16"	20	4.88	19.8	60	6	3	3	MTHUA304806198-200A
5/16"		18	6.15	24.0	60	8	3	3	MTHUA306108240-180A

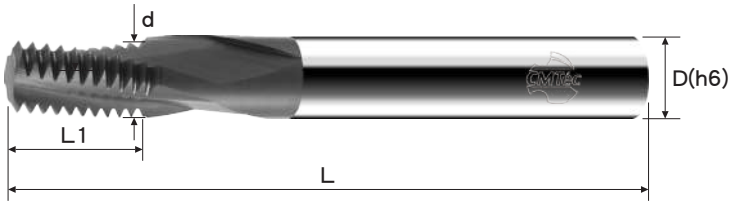
※ 25.4 ÷ Tpi (英制單位 Inch) = Pitch (公制單位 Metric)

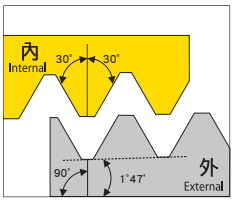
➡ 切削條件表 Cutting Condition P.566
➡ 下孔徑建議 Drill hole dia. P.657

鎢鋼螺旋銑牙刀- 外/內螺紋用(NPT美製錐度管螺紋60˚)

CARBIDE THREAD MILLS- Helix Flute- External / Internal(NPT National American Taper Pipe Thread 60°)

· CTHPT000000-000A





Defined by: USA B2.1:1968
Tolerance class: Standard NPT

MG TiAlN 15° Milling Table 61

螺紋 Thread	牙/吋 Tpi	d	刃長 L1	全長 L	柄徑 D	牙數 Teeth	刃數 Flute	鍍膜訂購編號 Coated Order No.
1/16"	27	5.3	9.4	60	6	10	3	CTHPT305306-270A
1/8"	27	7.5	9.4	60	8	10	4	CTHPT407508-270A
1/4"	18	9.4	14.1	75	10	10	4	CTHPT409410-180A
3/8"	18	11.9	14.1	100	12	10	4	CTHPT411912-180A
1/2", 3/4"	14	15.5	25.4	100	16	14	5	CTHPT515516-140A
1"-2"	11.5	19.9	33.1	100	20	15	5	CTHPT519920-115A
2 1/2", 3"	8	19.9	38.1	100	20	12	4	CTHPT419920-080A

※ 25.4 ÷ Tpi (英制單位 Inch) = Pitch (公制單位 Metric)

➡ 切削條件表 Cutting Condition P.566
➡ 下孔徑建議 Drill hole dia. P.658

MEMO