

鎢鋼銑牙刀系列

Carbide Thread Cutter

碳素鋼
合金鋼

不銹鋼/
鑄鐵

鋁/銅合金

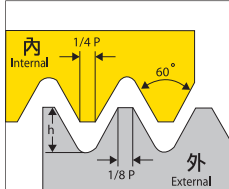
鈦合金加工

For carbon steel, alloy steel, stainless steel, cast iron, aluminum/copper alloy and titanium alloy machining.

鎢鋼多功能螺旋鑽銑牙刀(鑽-螺紋-倒角)- 內螺紋用(ISO規格)

MICRO GRAIN CARBIDE DRILL- THREAD- CHAMFER- HELIX FLUTE- INTERNAL(ISO Metric)

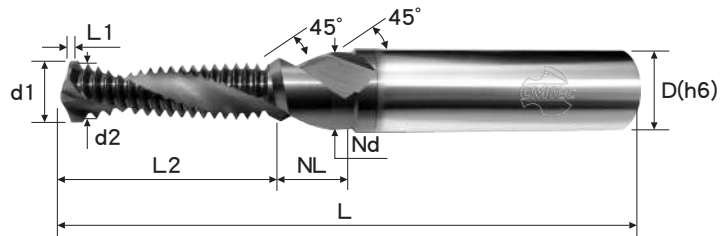
· **CSHI200000-000A**



公差 Tolerance class
6g / 6H



60



螺紋 Thread	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.
粗牙M													
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

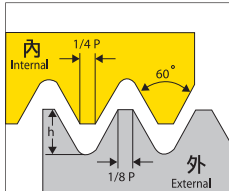
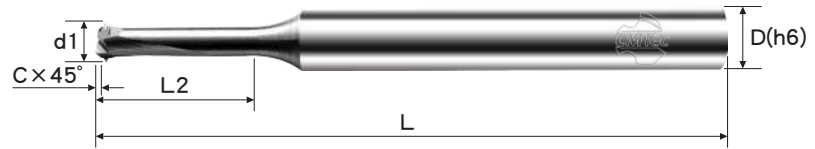
→ 切削條件表 Cutting Condition P.284

→ 技術資料 Technical Data P.302

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

ULTRA CARBIDE MULTIPURPOSE THREAD MILLS- 1 / 2 / 3 TEETH- HELIX FLUTE (DRILL-CHAMFER-THREAD)- For Aluminum- INTERNAL(ISO Metric)

· **MSHIA1/2/3** 00000-000



公差 Tolerance class
6g / 6H



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

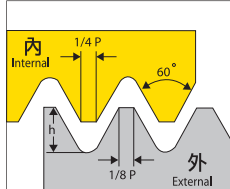
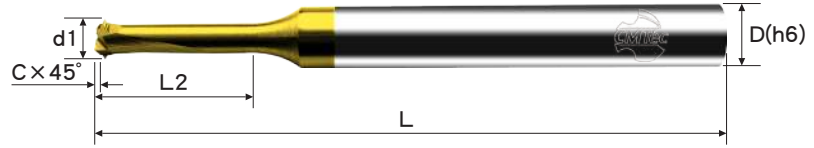
→ 切削條件表 P.295 Cutting Condition

→ 技術資料 P.302 Technical Data

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

ULTRA CARBIDE MULTIPURPOSE THREAD MILLS- 1 / 2 / 3TEETH- HELIX FLUTE (DRILL-CHAMFER-THREAD)- HARD MATERIALS CUTTING- INTERNAL(ISO Metric)

· MSHIDA1/2/300000-000A



公差 Tolerance class
6g / 6H



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

→ 切削條件表 P.295 Cutting Condition → 技術資料 P.302 Technical Data

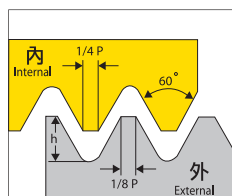
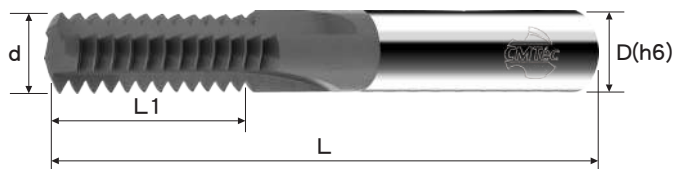
鎢鋼銑牙刀系列

Carbide Thread Cutter

鎢鋼直刃銑牙刀- 內螺紋用(ISO規格)

MICRO GRAIN CARBIDE THREAD- STRAIGHT FLUTE- INTERNAL(ISO Metric)

· CTSI000000-000A



公差 Tolerance class
6g / 6H



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 P.285 Cutting Condition Technical Data P.302

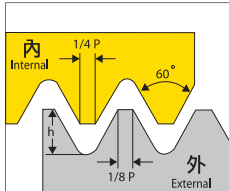
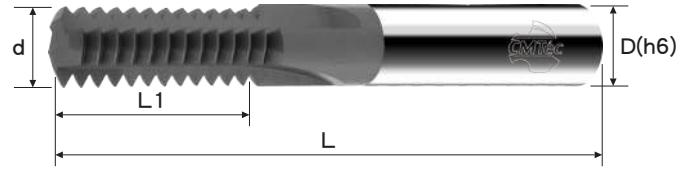
鎢鋼銑牙刀系列

Carbide Thread Cutter

鎢鋼直刃銑牙刀- 外螺紋用(UN美製規格)

MICRO GRAIN CARBIDE THREAD- STRAIGHT FLUTE- EXTERNAL(American UN)

· CTSEU000000-000A



公差 Tolerance class
2A / 2B

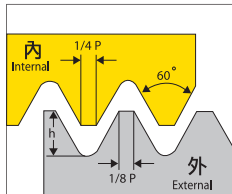
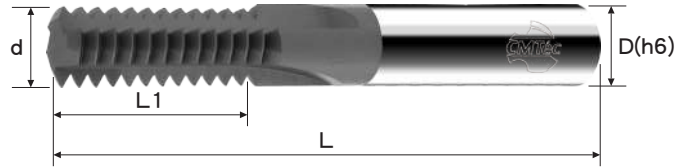
螺紋 Thread	牙/吋 Tpi	刃徑 d	刃長 L1	全長 L	柄徑 D	h (mm)	牙數 Teeth	刃數 Flute	鍍膜訂購編號 Coated Order No.
No.6	32	5.9	14.3	60	6	0.49	18	3	CTSEU305906-320A
No.12	28	7.9	19.9	60	8	0.56	22	3	CTSEU307908-280A
1/4"	20	9.9	22.9	75	10	0.78	18	5	CTSEU509910-200A
5/16"	18	9.9	24.0	75	10	0.87	17	5	CTSEU509910-180A
3/8"	16	11.9	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)

鎢鋼直刃銑牙刀- 內螺紋用(UN美製規格)

MICRO GRAIN CARBIDE THREAD- STRAIGHT FLUTE- INTERNAL(American UN)

· CTSIU000000-000A



公差 Tolerance class
2A / 2B



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)

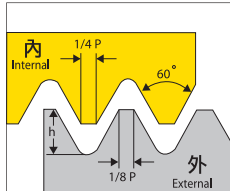
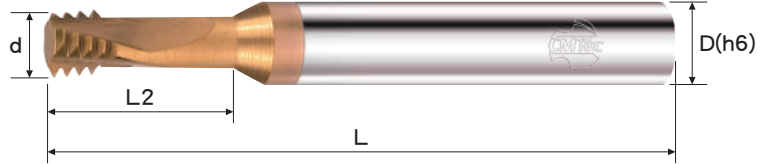
➔ 切削條件表 P.285
Cutting Condition

➔ 技術資料 P.302
Technical Data

鎢鋼螺旋銑牙刀- 內螺紋用(ISO規格)

ULTRA CARBIDE THREAD- HELIX FLUTE- INTERNAL(ISO Metric)

· MTHIA000000-000A



公差 Tolerance class
6g / 6H



61



螺紋加工深度可到2D/ 2D(L2 ≤ 2 x Thread Diameter)

螺紋 Thread M 粗牙	螺紋 Thread Mx1 細牙	螺距 Pitch	刃徑 d	有效長 L2	全長 L	柄徑 D	牙數 Teeth	刃數 Flute	下孔徑 Drill hole dia.	鍍膜訂購編號 Coated Order No.
M1.6		0.35	1.20	3.4	50	3	3	3	1.25	MTHIA301203-035A
M2.0		0.40	1.55	4.2	60	6	3	3	1.60	MTHIA301506-040A
M2.2		0.45	1.65	4.6	60	6	3	3	1.75	MTHIA301606-045A
M2.5		0.45	1.95	5.2	60	6	3	3	2.05	MTHIA301906-045A
M3.0	M3.5~M16	0.50	2.40	6.2	60	6	3	3	2.50	MTHIA302406-050A
M3.5		0.60	2.75	7.3	60	6	3	3	2.90	MTHIA302706-060A
M4.0		0.70	3.15	8.3	60	6	3	3	3.30	MTHIA303106-070A
M5.0		0.80	4.05	10.4	60	6	3	3	4.20	MTHIA304006-080A
M6.0	M8.0~M40	1.00	4.80	12.5	60	6	3	3	5.00	MTHIA304806-100A
M8.0		1.25	6.50	16.6	60	8	3	3	6.80	MTHIA306508-125A
M10	M12~M48	1.50	8.20	20.8	75	10	3	3	8.50	MTHIA308210-150A
M12		1.75	9.90	25.0	75	10	3	3	10.30	MTHIA309910-175A
M16		2.00	11.90	33.0	100	12	3	3	14.00	MTHIA311912-200A
M20		2.50	15.90	41.3	100	16	3	3	17.50	MTHIA315916-250A

螺紋加工深度可到3D/ 3D(L2 ≤ 3 x Thread Diameter)

螺紋 Thread M 粗牙	螺紋 Thread Mx1 細牙	螺距 Pitch	刃徑 d	有效長 L2	全長 L	柄徑 D	牙數 Teeth	刃數 Flute	下孔徑 Drill hole dia.	鍍膜訂購編號 Coated Order No.
M1.6		0.35	1.20	5.0	50	3	3	3	1.25	MTHIA301203050-035A
M2.0		0.40	1.55	6.2	60	6	3	3	1.60	MTHIA301506062-040A
M2.5		0.45	1.95	7.7	60	6	3	3	2.05	MTHIA301906077-045A
M3.0	M3.5~M16	0.50	2.40	9.2	60	6	3	3	2.50	MTHIA302406092-050A
M4.0		0.70	3.15	12.3	60	6	3	3	3.30	MTHIA303106123-070A
M5.0		0.80	4.05	15.4	60	6	3	3	4.20	MTHIA304006154-080A
M6.0	M8.0~M40	1.00	4.80	18.5	60	6	3	3	5.00	MTHIA304806185-100A
M8.0		1.25	6.50	24.6	60	8	3	3	6.80	MTHIA306508246-125A

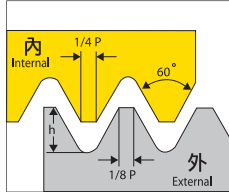
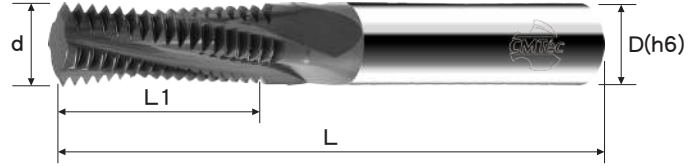
→ 切削條件表 P.285
Cutting Condition

→ 技術資料 P.302
Technical Data

鎢鋼螺旋銑牙刀- 內螺紋用(ISO規格)

MICRO GRAIN CARBIDE THREAD- HELIX FLUTE- INTERNAL(ISO Metric)

· CTHI000000-000A



公差 Tolerance class
6g / 6H

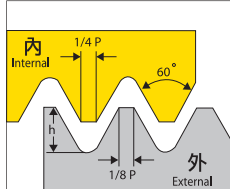
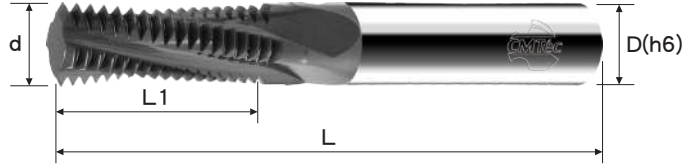


螺紋 Thread		螺距 Pitch	刃徑 d	刃長 L1	全長 L	柄徑 D	h (mm)	牙數 Teeth	刃數 Flute	鍍膜訂購編號 Coated Order No.
M粗牙	Mx1細牙									
M3	M3.5~M16	0.50	2.2	6.00	50	4	0.29	12	3	CTHI302204-050A
	M4	0.50	3.0	8.00	50	4	0.29	16	3	CTHI303004-050A
	M5	0.50	3.9	10.00	50	4	0.29	20	3	CTHI303904-050A
M4	M6	0.70	2.8	8.40	50	4	0.40	12	3	CTHI302804-070A
	M6	0.75	3.9	12.00	50	4	0.43	16	3	CTHI303904-075A
M5	M8~M40	0.80	3.5	10.40	50	4	0.46	13	3	CTHI303504-080A
M6	M8	1.00	3.9	12.00	50	4	0.58	12	3	CTHI303904-100A
	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
M8	M10	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
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
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

鎢鋼螺旋銑牙刀-內螺紋用(UN美製規格)

MICRO GRAIN CARBIDE THREAD- HELIX FLUTE- INTERNAL(UN Metric)

· CTHIU000000-000A



公差 Tolerance class
2A / 2B



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)

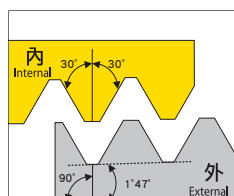
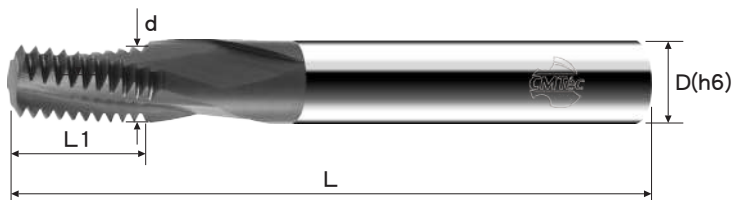
→ 切削條件表 P.285
Cutting Condition

→ 技術資料 P.302
Technical Data

鎢鋼螺旋銑牙刀- 內/外螺紋用(NPT美製錐度管螺紋 60°)

MICRO GRAIN CARBIDE THREAD- HELIX FLUTE- INTERNAL/EXTERNAL(NPT National American Taper Pipe Thread 60°)

· **CTHPT000000-000A**



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



NEW

螺紋 Thread	牙/吋 Tpi	d	刃長 L1	全長 L	柄徑 D	牙數 Teeth	刃數 Flute	下孔徑 Drill hole dia.	鍍膜訂購編號 Coated Order No.
1/16"	27	5.3	9.4	60	6	10	3	6.3	CTHPT305306-270A
1/8"	27	7.5	9.4	60	8	10	4	8.5	CTHPT407508-270A
1/4"	18	9.4	14.1	75	10	10	4	11.1	CTHPT409410-180A
3/8"	18	11.9	14.1	100	12	10	4	14.5	CTHPT411912-180A
1/2", 3/4"	14	15.5	25.4	100	16	14	5	17.7/23.0	CTHPT515516-140A
1"-2"	11.5	19.9	33.1	100	20	15	5	29-56	CTHPT519920-115A
2 1/2", 3"	8	19.9	38.1	100	20	12	4	66.5	CTHPT419920-080A

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

→ 切削條件表 Cutting Condition **P.285** → 技術資料 Technical Data **P.302**

鎢鋼銑牙刀系列

Carbide Thread Cutter