



有駿精密工具有限公司
UGMIC INDUSTRIAL Co., Ltd.

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有駿精密工具有限公司
UGMIC INDUSTRIAL Co., Ltd.



High functionality, precision and long service life!
Super-labor-saving and energy-efficient!

Tungsten Carbide Thread-Cutting Tools



高性能/高精度/高壽命/超省力/超節能
鎢鋼螺紋工具專業製造廠 鎢鋼絲攻系列



有暉精密工具有限公司
UGMIC INDUSTRIAL Co., Ltd.

高性能/高精度/高壽命/超省力/超節能

公司簡介

有暉精密工具有限公司，成立於西元1991年，由陳世明先生創辦。

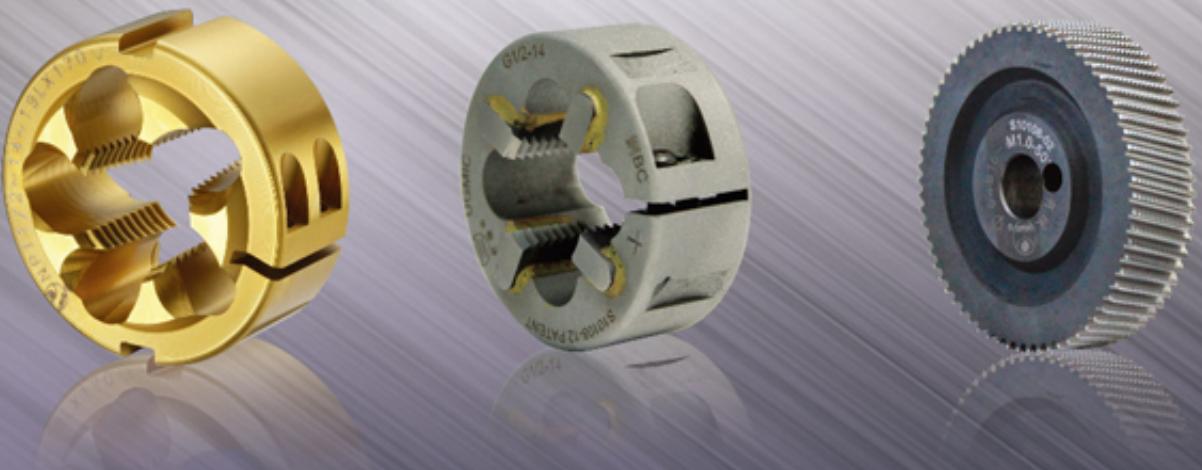
創辦人陳世明先生累積三十多年的機床設備、刀、模具開發經驗，有鑑於提升產業競爭力必須著重於高效能、高壽命之刀/模具之發展，遂研發鎢鋼螺紋切削工具/模具的專業製造，將服務領域跨至精密鎢鋼刀具、模具、量具等專業製造，成為國內首先開發鎢鋼螺紋切削工具/模具的專業製造廠，相關產品包含：鎢鋼絲攻、鎢鋼丸駒、鎢鋼銑牙輪、螺紋銑刀、牙板片、鎢鋼牙規、鎢鋼塞規...等。

本公司服務之產業廣泛，諸如：給水閥門、瓦斯閥門、氣嘴閥門、快速接頭、衛浴潔具五金、氣動配件、壓縮機零件、製冷配件、汽機車及自行車配件五金、機械零件五金、鈦合金/不鏽鋼高爾夫球頭、人工關節醫療器具....等產業均有涉及，服務地區遍及亞洲、東南亞、歐洲、北美、中南美洲等數十國，擁有為數不少的客戶群。

公司多年來秉持著『精益求精、品質卓越、服務熱忱』之精神不斷開創新產品，為產業界克服各種螺紋加工之問題，並已成功取得數十項相關專利，針對不同屬性之客戶給予最專業、最完善、最優良的全方位服務，以期在客戶長期的支持與愛護下穩定成長茁壯。

HIGH FUNCTIONALITY, PRECISION AND LONG SERVICE LIFE!

SUPER-LABOR-SAVING AND ENERGY-EFFICIENT.



Company Profile

UGMIC Industrial Co., Ltd. is founded in 1991 by Mr. Shi-Ming Chen.

Accumulating experience in developing machine tool equipment, cutter, and die for more than 30 years, the founder Mr. Shi-Ming Chen, knows that promoting industry competitiveness should focus on the progress of high efficiency and longevity of cutter/die. Mr. Chen researches and develops professionally manufactured tungsten thread cutter/die to span the range of services and brings UGMIC Precision Tools is the first manufactory of that area in Taiwan. Our products are tungsten carbide tap, tungsten carbide die, thread milling cutter, tungsten steel chaser, thread chaser, tungsten carbide sample gauge, tungsten carbide plug gauge, etc.

Our service is widespread. The industry includes water-supply valve, gas valve, tire air valve, camlock, sanitary hardware, pneumatic accessories, compressor parts, refrigeration accessories, automobile and bike parts accessories, machinery parts accessories, titanium alloy/stainless steel golf-club head, artificial joint medical appliance, etc. We service customers from many countries in Asia, South-east Asia, North America, Central and South America.

We hold the spirit of "Improving, Excellence, Devotion" to continually develop new products and overcome various problems of thread machining for this industry. We have acquired dozens of related patents to provide most professional, most perfect, most excellent services to our customers of different attributes. Hope we can have a steady growth under the standing and caring support from our customers.

螺紋絲攻-制式款 & 訂製款 Thread taps-standard type & custom type	01
螺紋刀具思考概要簡介	03
操作設備注意事項說明/思考概要 Association and precaution of using thread tools	04
螺紋絲攻種類與記號的應用 Application of both type and mark of taps	05
► 鑽鋼絲攻 Carbide Tap	
全鑽鋼絲攻-直溝型 & 跳牙直溝型 Solid Carbide Taps - Straight Flutes & Interrupted Straight Flutes	
■ 全鑽鋼直溝絲攻-公制螺紋/統一螺紋-JIS方頭圓柄 Solid Carbide Taps -Straight Flutes-Metric Thread & Unified Thread (JIS Shank)	07
■ 全鑽鋼直溝絲攻-平行&錐度管用螺紋-JIS方頭圓柄 Solid Carbide Taps -Straight Flutes-Parallel & Taper Pipe Thread (JIS Shank)	09
全鑽鋼絲攻-直溝先端型 & 跳牙直溝先端型 Solid Carbide Taps - Straight Pointed Flutes & Interrupted Straight Pointed Flutes	
■ 全鑽鋼直溝先端絲攻-公制螺紋-JIS方頭圓柄 Solid Carbide Taps -Straight Pointed Flutes-Metric Thread (JIS Shank)	10
■ 全鑽鋼直溝先端絲攻-統一螺紋-JIS方頭圓柄 Solid Carbide Taps -Straight Pointed Flutes-Unified Thread (JIS Shank)	11
焊鑽鋼絲攻-直溝型 & 跳牙直溝型 Welded Carbide Taps - Straight Flutes & Interrupted Straight Flutes	
■ 焊接鑽鋼直溝絲攻-公制螺紋/統一螺紋-JIS方頭圓柄 Welded Carbide Taps -Straight Flutes-Metric Thread/Unified Thread (JIS Shank)	12
■ 焊接鑽鋼直溝絲攻-平行&錐度管用螺紋-JIS方頭圓柄 Welded Carbide Taps -Straight Flutes-Parallel & Taper Pipe Thread (JIS Shank)	13
全鑽鋼絲攻-擠壓型 Solid Carbide Taps - Roll Form Flutless	
■ 全鑽鋼無屑絲攻-公制螺紋&統一細螺紋-JIS方頭圓柄 Solid Carbide Taps -Fluteless (Roll Form)-Metric & Unified Fine Thread (JIS Shank)	15
■ 全鑽鋼無屑絲攻-統一螺紋&管用螺紋-JIS方頭圓柄 Solid Carbide Taps -Fluteless (Roll Form)-Unified & Pipe Thread (JIS Shank)	16
全鑽鋼絲攻-螺旋型 & 跳牙螺旋型 Solid Carbide Taps - Spiral Flutes & Interrupted Spiral Flutes	
■ 全鑽鋼螺旋溝-公制螺紋-JIS方頭圓柄 Solid Carbide Taps -Spiral Flutes-Metric Thread (JIS Shank)	17
■ 全鑽鋼螺旋溝-統一螺紋-JIS方頭圓柄 Solid Carbide Taps -Spiral Flutes-Unified Thread (JIS Shank)	18
■ 全鑽鋼螺旋溝-平行&錐度管用螺紋-JIS方頭圓柄 Solid Carbide Taps -Spiral Flutes- Parallel & Taper Pipe Thread (JIS Shank)	19
客戶需求確認單 Requirement List of work-piece	20
焊鑽鋼絲攻-螺旋型 & 跳牙螺旋型 Welded Carbide Taps - Spiral Flutes & Interrupted Spiral Flutes	
■ 焊接鑽鋼螺旋溝-公制螺紋&統一螺紋-JIS方頭圓柄 Welded Carbide Taps -Spiral Flutes-Metric & Unified Thread (JIS Shank)	21
■ 焊接鑽鋼螺旋溝-平行&錐度管用螺紋-JIS方頭圓柄 Welded Carbide Taps -Spiral Flutes-Parallel & Taper Pipe Thread (JIS Shank)	22

► 可調式鎢鋼丸駒(板牙) Adjustable Carbide Thread Dies	
可調式鎢鋼丸駒(板牙) & 跳牙型 Adjustable Carbide Thread Dies & Interrupted Type	
■ 公制螺紋-可調式鎢鋼丸駒規格表 Metric Thread-Adjustable Carbide Dies	23
■ 惠氏螺紋-可調式鎢鋼丸駒規格表 Whitworth Thread-Adjustable Carbide Dies	23
■ 美制螺紋-可調式鎢鋼丸駒規格表 Unified Thread-Adjustable Carbide Dies	24
■ ISO(G)平行管用螺紋-可調式鎢鋼丸駒規格表 ISO (G) Parallel Pipe Thread -Adjustable Carbide Dies	24
■ ISO(Rp)平行管用螺紋-可調式鎢鋼丸駒規格表 ISO (Rp)Parallel Pipe Thread -Adjustable Carbide Dies	24
■ ISO(R)推拔管用螺紋-可調式鎢鋼丸駒規格表 ISO (R) Pipe Thread-Adjustable Carbide Dies	25
■ 美規平行管用螺紋-可調式鎢鋼丸駒規格表 (NPSM) Parallel Pipe Thread-Adjustable Carbide Dies	25
■ 美規推拔管用螺紋-可調式鎢鋼丸駒規格表 (NPT) Taper Pipe Thread-Adjustable Carbide Dies	25
■ 美規乾封推拔管用螺紋-可調式鎢鋼丸駒規格表 (NPTF) Taper Dry Pipe Thread-Adjustable Carbide Dies	25
訂製款丸駒(板牙) & 牙板片 Custom Made Thread Dies & Chasers	
■ 可調式 無屑/高速鋼/帶柄 鑽鋼丸駒(板牙) Adjustable Roll Form / HSS-Co / with Shank Carbide Thread Dies	26
■ 鑽鋼牙板片(TC/DC)/鑽鋼牙只(日式/德式) Insert Tap Chaser & Die Chaser	27
► 全鑽鋼外螺紋銑牙輪 Carbide Thread Mills For Auto-Lathe	28
► 螺紋銑刀 Thread Mills.	
中心機螺紋銑刀-直溝型 Thread Mills - Straight Flutes For CNC Machine Center	
■ 公制螺紋銑刀-直溝 Metric Thread Mills - Straight Flutes	31
■ 統一螺紋銑刀-直溝 Unified Thread Mills - Straight Flutes	33
■ 管用螺紋銑刀-直溝 Pipe Thread Mills - Straight Flutes	35
中心機螺紋銑刀-螺旋型 Thread Mills - Spiral Flutes For CNC Machine Center	
■ 公制螺紋銑刀-螺旋溝 Metric Thread Mills - Spiral Flutes	36
■ 統一螺紋銑刀-螺旋溝 Unified Thread Mills - Spiral Flutes	37
■ 管用螺紋銑刀-螺旋溝 Pipe Thread Mills - Spiral Flutes	38

螺紋絲攻-制式款&訂製款 (Thread taps-standard type & custom type)



全鎢鋼直溝絲攻 先端絲攻 跳牙先端絲攻 焊鎢鋼直溝絲攻 跳牙鎢鋼直溝絲攻
Solid Carbide Tap Straight & Interrupted Flute Welded Carbide Tap Straight & Interrupted Flute

機械攻牙 Machine Tap	★★
手動攻牙 Hand Tap	★★
通孔 Through Hole	★★★
盲孔 Blind Hole	★★
切屑型式 Chip Type	短屑(Short Chip)



全鎢鋼螺旋絲攻 跳牙螺旋絲攻 焊鎢鋼螺旋絲攻 跳牙鎢鋼螺旋絲攻
Solid Carbide Tap Spiral & Interrupted Flute Welded Carbide Tap Spiral & Interrupted Flute

全鎢鋼無屑(擠壓)絲攻
Solid Carbide Tap Fluteless (Roll Form)

機械攻牙 Machine Tap	★★★
手動攻牙 Hand Tap	★
通孔 Through Hole	★★★
盲孔 Blind Hole	★★★
切屑型式 Chip Type	長屑/短屑(Long Chip/Short Chip)

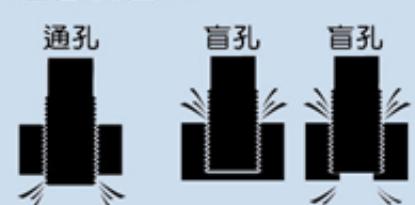
機械攻牙 Machine Tap	★★★
手動攻牙 Hand Tap	
通孔 Through Hole	★★★
盲孔 Blind Hole	★★★
切屑型式 Chip Type	無屑(No Chip)

訂製款 Custom Type	機械攻牙 Machine Tapping	手動攻牙 Hand Tapping	孔型式 Hole Type	切屑 Chip	適用材質 Workpiece Material	承製螺紋 範圍
全鎢鋼先端絲攻 Solid Carbide Point Spiral Flute Tap	★★★				3-20	特製
高速鋼螺旋絲攻 HSS-Co Spiral Flute Tap (M35, SKH55)	★★★	★	 		3-20	M6以上 訂製 Custom
高速鋼螺旋絞刀 HSS-Co Spiral Milling (M35, SKH55)	★★★	★	 		3-20	M6以上 訂製 Custom
高速鋼無屑絲攻 (擠壓) HSS-Co Coating Roll From Fluteless Tap (M42, SKH59)	★★★		 	No Chip	13-20 可塑性 Plastic Material	M12以上 訂製
跳牙螺帽絲攻 Interrupted Nut Taps	★★★				1-20	M6以上 訂製款
殼型螺旋絲攻跳牙 (自轉車專用) Interrupted Shell spiral taps (for Bicycle)	★★★	★	 	 	8-20	M16以上

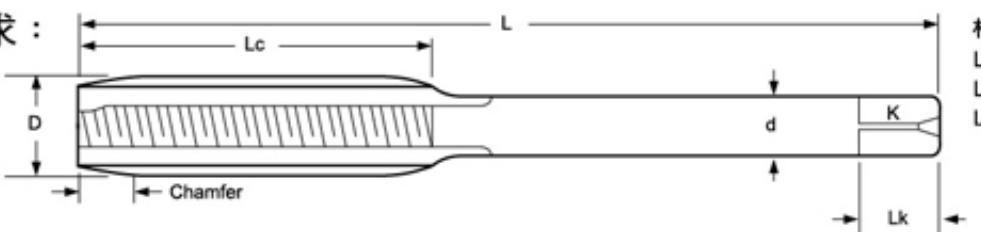
使用圖式說明：



通盲孔圖示：



訂購需求：



相關尺寸依據
L :Overall length (總長)
Lc :Cutter length (刃長)
Lw:Effect work length (有效工作長)



被加工材質（軟材質、硬材質、塑性材）+ 切屑（粉狀屑、片狀屑、捲積屑）：依被加工材質及切屑型式，選配適合之鎢鋼材質並研磨合適之切削角度方能達到鎢鋼螺紋刀具之良好使用狀態。

Processed material (soft material, hard material, plastic material) + cutting chips (powder, flake, or screw shaped chips) : Choose proper tungsten steel material and the cutter's proper cutting angle based on the chip type of the processed material to achieve superior tungsten steel thread cutter usage.

操作機床（導程穩定、導程不穩定）：

走導螺桿、數控機床為導程穩定之機床，較不因刀具過於鋒利而產生過切削（擴孔、吃牙、亂牙、銑牙）等加工不良問題，桌上車床、攻絲複合機為導程不穩定之機床，較易因刀具過於鋒利而產生過切削（擴孔、吃牙、亂牙、銑牙）等加工不良問題，因此適合較不鋒利之刀具使用，因應廣大市場之銷售，當產生刀具過於鋒利之情況時，即利用攻牙檢驗準則之補償方式處理，以符合民眾之需求!!

Operating lathes (stable lead, unstable lead):

Stable lead lathes such as spindle or CNC lathes are less likely to have process issues of over cutting (widened holes and/or damaged threads that produce uneven thread pitch during milling) caused by excessively sharp cutters. Unstable lead lathes such as combination table lathe and tapping machines are more likely to have process over cutting issues (widened holes and/or damaged threads that produce uneven thread pitch during milling) caused by excessively sharp cutters, therefore, not suitable for the application of sharp tools. To fulfill sales demand, handle with tapping inspection standard compensation method when the tools are too sharp to meet customer requirements.

操作設備注意事項說明

攻牙設備主軸導程(牙距)穩定(適合高精度攻牙): 專用機\CNC數控車床\CNC中心機
Stable tapping machine spindle lead (tap pitch), suitable for high precision tapping:
special purpose machine\CNC lathes\CNC machine center.

設備主軸導程(牙距)不穩定(不適合高精度攻牙): 立式鑽床\儀表車床
Unstable drilling machine spindle lead (tap pitch) table, not suitable for high precision tapping:
vertical drilling machines\ gauge lathes.

加工狀態檢驗如下:

In process inspection:

1. 攻牙設備主軸，檢驗主軸轉動偏差是否穩定(偏差量建議0.01mm以內)。
Check if the deviation of the main spindle is stable (suggested deviation under 0.01 mm).
2. 主軸連結刀具夾頭，檢驗刀具夾頭轉動偏差是否穩定(偏差量建議0.01mm以內)。
Spindle is connected to the tap screw chuck. Check whether the tap screw chuck rotation deviation is stable (suggested deviation is under 0.01 mm).
3. 刀具主軸，檢驗裝夾後的刀具主軸轉動偏差是否穩定(偏差量建議0.01mm以內)。
Check whether the rotation deviation of tap screw spindle mounted with chuck is stable (suggested deviation is under 0.01 mm).
4. 檢驗產品加工前的孔位軸心是否與刀具軸心在同軸心上，如此可確保刀具加工過程沒有重複歪斜拐動，造成崩裂。
Check whether the axis of the hole location before tapping process is on the same axis as the tap screw axis to prevent repeated tilting, shaking, and collapse of tap screw.
5. 攻牙前的下孔徑尺寸是否適當，下孔徑太小則加工阻力太大，絲攻易損壞。
Check whether the bottom hole dimension is appropriate before tapping. If the bottom hole is too small, the resistance of tapping process will be too high and cause damage to the thread tap.
6. 線錐等刀具問題，使用過程供應商針對尺寸精度作質量保證，其餘使用過程產生之異像，必須請使用者檢視上述幾點使用注意事項，方能改善。
For issues related to tap screw and cutting tools, the suppliers should guarantee the precision of dimensions for the screws and tools. For abnormal situations during the use processes, please have the user check the above items to make improvements.

超硬鎢鋼螺絲攻使用建議事項：

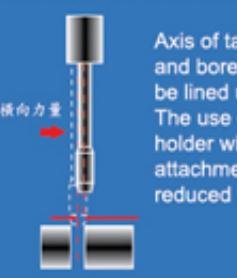
- 請使用牙距同步進給之導程穩定攻牙機械。
Please use tapping machine of stable pitches.
- 切削油劑請使用油性切削油最穩定。
Please use the greasy cutting compound, when cuts the oil emulsions to be most suitable.
- 依被切削材之性質及螺紋尺寸變更攻牙轉速。
According to the material of work piece and the size of thread change the tapping speed.

Run out, misalignment, inclined hole/cutting at inclined hole

- Run out during tapping
- Misalignment during tapping



Chuck needs to be adjusted tapping with runcould be observed and checked by idle running.



Axis of tapping process and bored hole should be lined up correctly. The use of adjustable holder with floating attachment will be reduced this problem.

Over-cutting at radial direction. ● Inclined hole/Cutting at inclined hole



Confirmation of prepared hole condition.

螺紋絲攻種類與記號的應用 (Application of both type and mark of taps)

全鎢鋼/焊鎢鋼 直溝絲攻 Solid /Welded Carbide Straight Flute Taps

種類 Flute Type	工具記號 Tool Mark	被削材質 Material of Workpiece	倒角 Chamfer Length	螺紋孔形式 Hole type	切削形式 Chip Type	螺紋尺寸 Thread size
直溝 Straight	A	硬鋼,硬度 > 40度HRC, 塑膠+纖維, 鐵鑄, 電木, 無鉛青銅, 鋅 Hard Steel, Hardness > 40HRC, Plastic+fiber, Cast Iron, Bakelite, No lead Bronze, Zinc	I II III	通孔/ 盲孔 Through/ Blind	粉狀屑/ 短屑 Powdery/ short	$4 \leq D \leq 160$ $0.8 \leq P \leq 3.0$
直溝 Straight	B	青銅, 無鉛黃銅 Bronze, NO lead Brass	III	通孔/ 盲孔 Through/ Blind	粉狀屑/ 短屑 Powdery/ short	$8 \leq D \leq 160$ $0.8 \leq P \leq 3.0$
直溝 Straight	BC	黃銅, Brass	III	通孔/ 盲孔 Through/ Blind	粉狀屑/ 短屑 Powdery/ short	$8 \leq D \leq 160$ $0.8 \leq P \leq 3.0$
直溝 Straight	C	軟鋼/鐵, 鈦合金, 工具鋼, 不鏽鋼 Soft steel/ Iron, Titanium Alloy, Tool Steel, Stainless Steel	II	通孔 Through	長屑 longer chip	$8 \leq D \leq 160$ $0.8 \leq P \leq 2.5$
		鋁合金(6061-T6, ADC), Aluminum Alloy(6061-T6,ADC)	II/III	通孔/ 盲孔 Through/ Blind	粉狀屑/ 短屑 Powdery/ short	$8 \leq D \leq 160$ $0.8 \leq P \leq 3.0$
直溝 Straight	CHRP	紅銅管, Copper Pipe	II	通孔 Through	長屑 longer chip	$8 \leq D \leq 160$ $0.8 \leq P \leq 3.0$
		鋁, 鐵, Aluminum(AC),Iron	II/III	通孔/ 盲孔 Through/ Blind	粉狀屑/ 短屑 Powdery/ short	$8 \leq D \leq 160$ $0.8 \leq P \leq 3.0$
直溝 Straight	O	鋁合金(6061-T6, ADC), 鋁, 紅銅管 Aluminum Alloy(6061-T6,ADC) , Aluminum(AC), Copper Pipe	II	通孔 Through	長屑 longer chip	$3 \leq D \leq 6$ $0.5 \leq P \leq 1.0$
		鑄鐵, 電木, 無鉛青銅青銅, 無鉛黃銅, 黃銅, Cast Iron, Bakelite, No lead Bronze, Bronze, NO lead Brass, Brass	II/III	通孔/ 盲孔 Through/ Blind	粉狀屑/ 短屑 Powdery/ short	$3 \leq D \leq 6$ $0.5 \leq P \leq 1.0$
直溝 Straight	OC	工具鋼, 不鏽鋼, 鈦合金 Tool Steel, Stainless Steel, Titanium Alloy	II	通孔 Through	長屑 longer chip	$3 \leq D \leq 6$ $0.5 \leq P \leq 1.0$

全鎢鋼/焊鎢鋼 螺旋溝絲攻 Solid /Welded Carbide Spiral Flute Taps

種類 Flute Type	工具記號 Tool Mark	被削材質 Material of Workpiece	倒角 Chamfer Length	螺紋孔形式 Hole type	切削形式 Chip Type	螺紋尺寸 Thread size
螺旋溝 Spiral	A	硬鋼,硬度 > 40度HRC, 塑膠+纖維, 鐵鑄, 電木, 無鉛青銅, 鋅 Hard Steel, Hardness > 40HRC, Plastic+fiber, Cast Iron, Bakelite, No lead Bronze, Zinc	III	通孔/ 盲孔 Through/ Blind	長屑/短屑 longer/short	$5 \leq D \leq 60$ $0.8 \leq P \leq 2.0$
螺旋溝 Spiral	C	黃銅, 鋁合金(6061-T6, ADC), 軟鋼/鐵, 鈦合金 Brass, Aluminum Alloy(6061-T6,ADC), Soft steel/ Iron, Titanium Alloy	III	通孔/ 盲孔 Through/ Blind	長屑/短屑 longer/short	$5 \leq D \leq 60$ $0.8 \leq P \leq 2.0$
螺旋溝 Spiral	CHRP	鋁, 紅銅管, Aluminum(AC)Copper Pipe	III	通孔/ 盲孔 Through/ Blind	長屑/短屑 longer/short	$8 \leq D \leq 60$ $1.0 \leq P \leq 2.0$
螺旋溝 Spiral	O	鋁合金(6061-T6, ADC), 鋁, 紅銅管 Aluminum Alloy(6061-T6,ADC) , Aluminum(AC), Copper Pipe	III	通孔/ 盲孔 Through/ Blind	長屑/短屑 longer/short	$3 \leq D \leq 6$ $0.5 \leq P \leq 1.0$
螺旋溝 Spiral	OC	工具鋼, 不鏽鋼, 鈦合金 Tool Steel, Stainless Steel, Titanium Alloy	III	通孔/ 盲孔 Through/ Blind	長屑/短屑 longer/short	$3 \leq D \leq 6$ $0.5 \leq P \leq 0.7$

全鎢鋼無溝(擠壓)絲攻 Solid Carbide Fluteless (Roll) Taps

種類 Flute Type	工具記號 Tool Mark	被削材質 Material of Workpiece	倒角 Chamfer Length	螺紋孔形式 Hole type	切削形式 Chip Type	螺紋尺寸 Thread size
無溝 Fluteless	4P	鋁合金(6061-T6, ADC) 鋁, 紅銅管, 軟鋼/鐵, 鈦合金, 工具鋼, 不鏽鋼, 鈦合金 Aluminum Alloy(6061-T6,ADC) , Aluminum(AC)Copper Pipe Soft steel/ Iron, Titanium Alloy, Tool Steel, Stainless Steel, Titanium Alloy	II	通孔 Through	長屑 longer	$1.6 \leq D \leq 20$ $0.35 \leq P \leq 2.0$
無溝 Fluteless	2P	鋁合金(6061-T6, ADC) 鋁, 紅銅管, 軟鋼/鐵, 鈦合金, 工具鋼, 不鏽鋼, 鈦合金 Aluminum Alloy(6061-T6,ADC) , Aluminum(AC)Copper Pipe Soft steel/ Iron, Titanium Alloy, Tool Steel, Stainless Steel, Titanium Alloy	III	盲孔 Blind	長屑 longer	$1.6 \leq D \leq 20$ $0.35 \leq P \leq 2.0$

含鈷高速鋼螺旋絲攻 HSS-CO Spiral Flute Taps

種類 Flute Type	工具記號 Tool Mark	被削材質 Material of Workpiece	倒角 Chamfer Length	螺紋孔形式 Hole type	切削形式 Chip Type	螺紋尺寸 Thread size
螺旋溝 Spiral	C	鋁合金(6061-T6, ADC) 鋁, 紅銅管, 軟鋼/鐵, 鈦合金, 工具鋼, 不鏽鋼, 鈦合金 Aluminum Alloy(6061-T6,ADC) , Aluminum(AC)Copper Pipe Soft steel/ Iron, Titanium Alloy, Tool Steel, Stainless Steel, Titanium Alloy	III	通孔/ 盲孔 Through/ Blind	長屑 longer	$8 \leq D \leq 60$ $1.0 \leq P \leq 3.0$

依據工件材質與螺紋孔選擇絲攻種類

被削材質 Material of Workpiece	絲攻種類 Taps Type	工具記號 Tool Mark	螺紋尺寸 Thread size	倒角 Chamfer Length	螺紋孔形式 Hole type	切削形式 Chip Type
硬鋼,硬度 > 40度HRC, Hard Steel, Hardness > 40HRC	鎢鋼直溝絲攻 Carbide Straight Flute Taps	A	D≥M4 P≥0.7	2P~5P	通孔/盲孔 Through/ Blind	短屑 /short
塑膠+纖維, Plastic+fiber,	鎢鋼螺旋溝絲攻 Carbide Spiral Flute Taps	AO	D≤M6, P≤1.0	2P	通孔/盲孔 Through/ Blind	長屑 longer chip
鑄鐵, Cast Iron, (FC/FCD)	鎢鋼直溝絲攻 Carbide Straight Flute Taps	A	S≤D≤60, 0.5≤P≤2.0	2P~3P	通孔/盲孔 Through/ Blind	短屑/長屑 Short/Longer
電木, Bakelite, 無鉛青銅No lead Bronze	鎢鋼直溝絲攻 Carbide Straight Flute Taps	O	D≤M6, P≤1.0	2P	通孔/盲孔 Through/ Blind	短屑 /short
黃銅, Brass	鎢鋼直溝絲攻 Carbide Straight Flute Taps	BC/C	D≤M8, P≤2.0	2P	通孔/盲孔 Through/ Blind	短屑 /short
鋁合金(6061-T6, ADC) Aluminum Alloy(6061-T6,ADC)	鎢鋼直溝絲攻 Carbide Straight Flute Taps	CR	D≤M8, P≤2.0	2P~5P	通孔 Through	短屑 /short
軟鋼/鐵, Soft steel/ Iron	鎢鋼螺旋溝絲攻 Carbide Spiral Flute Taps	O	D≤M6, P≤1.0	2P~3P	通孔/盲孔 Through/ Blind	短屑/長屑 Short/Longer
鈦合金Titanium Alloy	鎢鋼無溝(擠壓)絲攻 Carbide Fluteless(Roll) Taps	RT	1.6≤D≤16 0.3≤P≤2.0	4P/2P	通孔/盲孔 Through/ Blind	NO
鋁, Aluminum(AC)	鎢鋼直溝絲攻 Carbide Straight Flute Taps	CHRP	6≤D≤60, 0.5≤P≤2.0	2P~5P	通孔 Through	長屑 longer chip
紅銅管, Copper Pipe	鎢鋼螺旋溝絲攻 Carbide Spiral Flute Taps	C	S≤D≤60, 0.5≤P≤2.0	2P~3P	通孔/盲孔 Through/ Blind	長屑 longer chip
	鎢鋼無溝(擠壓)絲攻 Carbide Fluteless (Roll) Taps	RT	1.6≤D≤16 0.3≤P≤2.0	4P/2P	通孔/盲孔 Through/ Blind	NO
工具鋼, Tool Steel 不鏽鋼, Stainless Steel	鎢鋼直溝絲攻 Carbide Straight Flute Taps	CR	S≤D≤60, 0.75≤P≤1.5	4~5P	通孔 Through	長屑 longer chip
	鎢鋼螺旋溝絲攻 Carbide Spiral Flute Taps	C	S≤D≤60, 0.75≤P≤1.5	2P~3P	通孔/盲孔 Through/ Blind	長屑 longer chip
	含鈷高速鋼螺旋溝絲攻 HSS-Co Carbide Spiral Flute Taps	C	10≤D≤60, 0.75≤P≤3.0	2P~3P	通孔/盲孔 Through/ Blind	長屑 longer chip
	鎢鋼無屑絲攻 Carbide Fluteless (Roll) Taps	RT	1.6≤D≤16 0.3≤P≤2.0	4P/2P	通孔/盲孔 Through/ Blind	NO

螺紋與柄部標準 Thread Standard And Shank Standard

螺紋標準 (Thread Standard)							柄部標準 JIS			柄部標準 DIN		銸刀柄	側固柄
公稱螺紋	代號	牙型	錐度	公稱螺紋	編號	牙型	錐度	柄徑 mm	四方頭	柄徑 mm	四方頭	柄徑 mm	四方頭
公制螺紋	M	60	0	英規惠氏粗螺紋	BSW	55	0	3.0	2.5*5	22.0	17*20	2.0	6 6
統一螺紋粗牙	UNC	60	0	英規惠氏細螺紋	BSF	55	0	4.0	3.2*6	23.0	17*20	2.5	8 8
統一螺紋細牙	UNF	60	0	惠氏螺紋	W	55	0	5.0	4*7	24.0	19*22	2.8	10 10
統一螺紋極細牙	UNEF	60	0	歐規平行管螺紋	PF	55	0	5.5	4.5*7	25.0	19*22	3.5	12 12
美規平行管螺紋	NPSM	60	0	歐規平行管螺紋	PS	55	0	6.0	4				

全鎢鋼直溝絲攻-公制螺紋-JIS方頭圓柄

跳牙全鎢鋼直溝絲攻-公制螺紋-JIS方頭圓柄

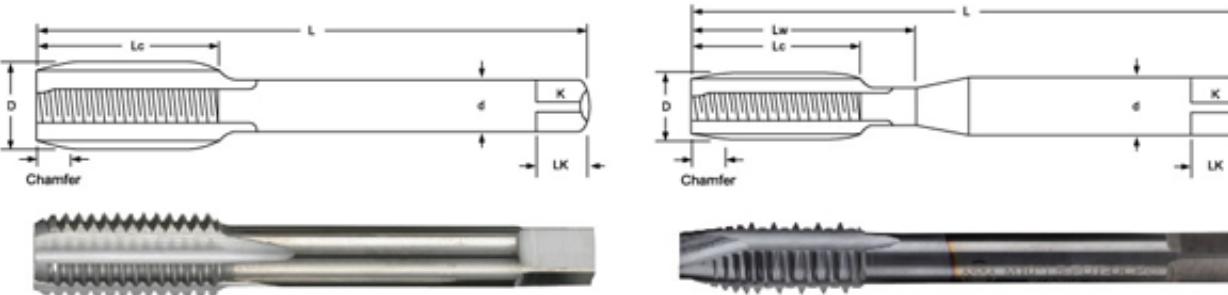
Solid Carbide Taps -Straight Flutes-Metric Thread (JIS Shank)

Interrupted Solid Carbide Taps -Straight Flutes-Metric Thread (JIS Shank)

選用：鍍鉻 跳牙 Selection : Coated Interrupted

公制細牙規格M Metric Thread	形狀 Shape				四方柄 Square		精 度 Class	無效牙長 倒 角 Chamfer Length	備 註 Remarks
	總長(L)	刃長(Lc)	工作長(Lw)	柄徑(d)	對邊(k)	邊長(Lk)			
M2.5*0.45	50	10		3	2.5	5	6H	III=2P/II=5P	A/O
M3*0.5	50	10		4	3.2	6	6H	III=2P/II=5P	A/O/A/O
M3.5*0.6	50	12		4	3.2	6	6H	III=2P/II=5P	A/O/A/O
M4*0.7	50	12		5	4	7	6H	III=2P/II=5P	A/O/A/O
M4.5*0.75	50	12		5	4	7	6H	III=2P/II=5P	A/O/A/O
M5*0.8	60	16		5.5	4.5	7	6H	III=2P/II=5P	A/O/A/O
M6*1.0	60	16		6	4.5	7	6H	III=2P/II=5P	A/O/A/O
M8*1.25	70	20		6.2	5	8	6H	III=2P/II=5P	A/B/C/CH
M10*1.5	75	23		7	5.5	8	6H	III=2P/II=5P	A/B/C/CH
M12*1.75	75	23		8.5	6.5	9	6H	III=2P/II=5P	A/B/C/CH
M14*2.0	75	23		10.5	8	11	6H	III=2P/II=5P	A/B/C/CH
M16*2.0	75	23		12.5	10	13	6H	III=2P/II=5P	A/B/C/CH

公制細牙規格M Metric Thread	形狀 Shape				四方柄 Square		精 度 Class	無效牙長 倒 角 Chamfer Length	備 註 Remarks
	總長(L)	刃長(Lc)	工作長(Lw)	柄徑(d)	對邊(k)	邊長(Lk)			
MF4*0.5	50	12		5	4	7	6H	III=2P/II=5P	A/O/A/O
MF5*0.5	60	12		5.5	4.5	7	6H	III=2P/II=5P	A/O/A/O
MF6*0.5	60	12		6	4.5	7	6H	III=2P/II=5P	A/O/A/O
MF6*0.75	60	16		6	4.5	7	6H	III=2P/II=5P	A/O/A/O
MF8*0.75	70	16		6.2	5	8	6H	III=2P/II=5P	A/B/C/CH
MF8*1.0	70	20		6.2	5	8	6H	III=2P/II=5P	A/B/C/CH
MF10*0.75	75	23		7	5.5	8	6H	III=2P/II=5P	A/B/C/CH
MF10*1.0	75	23		7	5.5	8	6H	III=2P/II=5P	A/B/C/CH
MF10*1.25	75	23		7	5.5	8	6H	III=2P/II=5P	A/B/C/CH
MF12*1.0	75	23		8.5	6.5	9	6H	III=2P/II=5P	A/B/C/CH
MF12*1.25	75	23		8.5	6.5	9	6H	III=2P/II=5P	A/B/C/CH
MF12*1.5	75	23		8.5	6.5	9	6H	III=2P/II=5P	A/B/C/CH
MF14*1.0	75	23		10.5	8	11	6H	III=2P/II=5P	A/B/C/CH
MF14*1.25	75	23		10.5	8	11	6H	III=2P/II=5P	A/B/C/CH
MF14*1.5	75	23		10.5	8	11	6H	III=2P/II=5P	A/B/C/CH
MF16*1.0	75	23		12.5	10	13	6H	III=2P/II=5P	A/B/C/CH
MF16*1.5	75	23		12.5	10	13	6H	III=2P/II=5P	A/B/C/CH



相關螺紋規格繁多，上表未列舉規格可接受訂製!! (如外觀尺寸變更將依本公司提供之產品為主)

全鎢鋼直溝絲攻-統一螺紋-JIS方頭圓柄

跳牙全鎢鋼直溝絲攻-統一螺紋-JIS方頭圓柄

Solid Carbide Taps -Straight Flutes-Unified Thread (JIS Shank)

Interrupted Solid Carbide Taps -Straight Flutes-Unified Thread (JIS Shank)

選用：鍍鉻 跳牙 Selection : Coated Interrupted

統一螺紋粗牙規格UNC Unified Coarse Thread	形 狀 Shape				四方柄 Square		精 度 Class	無效牙長 倒 角 Chamfer Length	備 註 Remarks
	總長(L)	刃長(Lc)	工作長(Lw)	柄徑(d)	對邊(k)	邊長(Lk)			
#4-40UNC	50	10		3	2.5	5	2B	III=2P/II=5P	O/A/O
#5-40UNC	50	10		4	3.2	6	2B	III=2P/II=5P	O/A/O
#6-32UNC	50	12		4	3.2	6	2B	III=2P/II=5P	A/O/A/O
#8-32UNC	50	12		5	4	7	2B	III=2P/II=5P	A/O/A/O
#10-24UNC	60	16		5.5	4.5	7	2B	III=2P/II=5P	A/O/A/O
#12-24UNC	60	16		5.5	4.5	7	2B	III=2P/II=5P	A/O/A/O
1/4-20UNC	60	16		6	4.5	7	2B	III=2P/II=5P	A/O/A/O
5/16-18UNC	70	20		6.1	5	8	2B	III=2P/II=5P	A/B/C/CH
3/8-16UNC	75	23		7	5.5	8	2B	III=2P/II=5P	A/B/C/CH
7/16-14UNC	75	23		8	6	9	2B	III=2P/II=5P	A/B/C/CH
1/2-13UNC	75	23		9	7	10	2B	III=2P/II=5P	A/B/C/CH
9/16-12UNC	75	23		10.5	8	11	2B	III=2P/II=5P	A/B/C/CH
5/8-11UNC	75	23		12	9	12	2B	III=2P/II=5P	A/B/C/CH

統一螺紋細牙規格UNF Unified Fine Thread	形 狀 Shape				四方柄 Square		精 度 Class	無效牙長 倒 角 Chamfer Length	備 註 Remarks
	總長(L)	刃長(Lc)	工作長(Lw)	柄徑(d)	對邊(k)	邊長(Lk)			
#4-48UNF	50	10		3	2.5	5	2B	III=2P/II=5P	O/A/O
#5-44UNF	50	10		4	3.2	6	2B	III=2P/II=5P	O/A/O
#6-40UNF	50	12		4	3.2	6	2B	III=2P/II=5P	A/O/A/O
#8-36UNF	50	12		5	4	7	2B	III=2P/II=5P	A/O/A/O
#10-32UNF	60	16		5.5	4.5	7	2B	III=2P/II=5P	A/O/A/O
#12-28UNF	60	16		5.5	4.5	7	2B	III=2P/II=5P	A/O/A/O
1/4-28UNF	60	16		6	4.5	7	2B	III=2P/II=5P	A/O/A/O
5/16-24UNF	70	20		6.1	5	8	2B	III=2P/II=5P	A/B/C/CH
3/8-24UNF	75	23		7	5.5	8	2B	III=2P/II=5P	A/B/C/CH
7/16-20UNF	75	23		8	6	9	2B	III=2P/II=5P	A/B/C/CH
1/2-20UNF	75	23		9	7	10	2B	III=2P/II=5P	A/B/C/CH
9/16-18UNF									

全鎢鋼直溝絲攻-平行&錐度管用螺紋-JIS方頭圓柄

跳牙全鎢鋼直溝絲攻-平行&錐度管用螺紋-JIS方頭圓柄

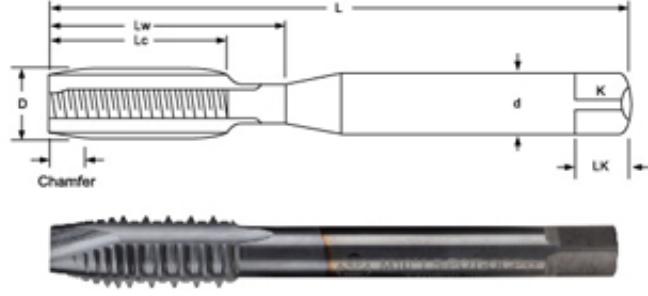
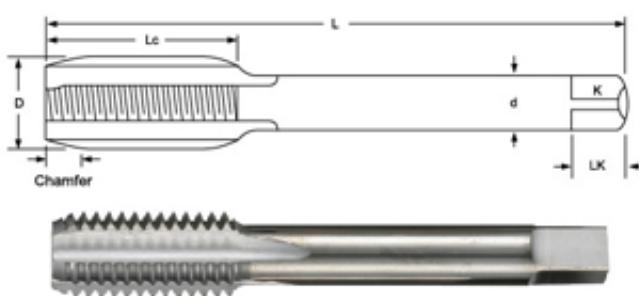
Solid Carbide Taps -Straight Flutes-Parallel & Taper Pipe Thread (JIS Shank)

Interrupted Solid Carbide Taps -Straight Flutes-Parallel & Taper Pipe Thread (JIS Shank)

選用：鍍鉻 跳牙 Selection : Coated Interrupted

管用平行牙規格 Pipe Parallel Thread (G)PF&(Rp)PS	形 狀 Shape				四方柄 Square		精 度 Class	無效牙長 倒 角 Chamfer Length	備 註 Remarks
	總長(L)	刃長(Lc)	工作長(Lw)	柄徑(d)	對邊(k)	邊長(Lk)			
(G)PF1/16-28	60	16		8	6	9	ISO	III=2P/II=5P	A/B/C/CH
(G)PF1/8-28	60	16		8	6	9	ISO	III=2P/II=5P	A/B/C/CH
(G)PF1/4-19	75	23		11	9	12	ISO	III=2P/II=5P	A/B/C/CH
(G)PF3/8-19	75	23		14	11	14	ISO	III=2P/II=5P	A/B/C/CH
(Rp)PS1/16-28	60	16		8	6	9	ISO	III=2P/II=5P	A/B/C/CH
(Rp)PS1/8-28	60	16		8	6	9	ISO	III=2P/II=5P	A/B/C/CH
(Rp)PS1/4-19	75	23		11	9	12	ISO	III=2P/II=5P	A/B/C/CH
(Rp)PS3/8-19	75	23		14	11	14	ISO	III=2P/II=5P	A/B/C/CH
NPSM1/16-27	60	16		8	6	9	ANSI	III=2P/II=5P	A/B/C/CH
NPSM1/8-27	60	16		8	6	9	ANSI	III=2P/II=5P	A/B/C/CH
NPSM1/4-18	75	23		11	9	12	ANSI	III=2P/II=5P	A/B/C/CH
NPSM3/8-18	75	23		14	11	14	ANSI	III=2P/II=5P	A/B/C/CH

管用推拔牙規格 Pipe Taper Thread PT(Rc)& NPT&NPTF&PTF	形 狀 Shape				四方柄 Square		精 度 Class	無效牙長 倒 角 Chamfer Length	備 註 Remarks
	總長(L)	刃長(Lc)	工作長(Lw)	柄徑(d)	對邊(k)	邊長(Lk)			
NPT1/16-27	60	16		8	6	9	ANSI	III=2P/II=5P	A/B/C/CH
NPT1/8-27	60	16		8	6	9	ANSI	III=2P/II=5P	A/B/C/CH
NPT1/4-18	75	23		11	9	12	ANSI	III=2P/II=5P	A/B/C/CH
NPT3/8-18	75	23		14	11	14	ANSI	III=2P/II=5P	A/B/C/CH
NPTF1/16-27	60	16		8	6	9	ANSI	III=2P/II=5P	A/B/C/CH
NPTF1/8-27	60	16		8	6	9	ANSI	III=2P/II=5P	A/B/C/CH
NPTF1/4-18	75	23		11	9	12	ANSI	III=2P/II=5P	A/B/C/CH
NPTF3/8-18	75	23		14	11	14	ANSI	III=2P/II=5P	A/B/C/CH
PTF1/16-27	60	16		8	6	9	ANSI	III=2P/II=5P	A/B/C/CH
PTF1/8-27	60	16		8	6	9	ANSI	III=2P/II=5P	A/B/C/CH
PTF1/4-18	75	23		11	9	12	ANSI	III=2P/II=5P	A/B/C/CH
PTF3/8-18	75	23		14	11	14	ANSI	III=2P/II=5P	A/B/C/CH
(Rc)PT1/16-28	60	16		8	6	9	ISO	III=2P/II=5P	A/B/C/CH
(Rc)PT1/8-28	60	16		8	6	9	ISO	III=2P/II=5P	A/B/C/CH
(Rc)PT1/4-19	75	23		11	9	12	ISO	III=2P/II=5P	A/B/C/CH
(Rc)PT3/8-19	75	23		14	11	14	ISO	III=2P/II=5P	A/B/C/CH



全鎢鋼直溝先端絲攻-公制螺紋-JIS方頭圓柄

跳牙全鎢鋼直溝先端-公制螺紋-JIS方頭圓柄

Solid Carbide Taps -Straight Pointed Flutes-Metric Thread (JIS Shank)

Interrupted Solid Carbide Taps - Straight Pointed Flutes-Metric Thread (JIS Shank)

選用：鍍鉻 跳牙 Selection : Coated Interrupted (先端 POT) (先端跳牙 POTX)

公制細牙規格 M Metric Thread	形 狀 Shape				四方柄 Square		精 度 Class	無效牙長 倒 角 Chamfer Length	備 註 Remarks
	總長(L)	刃長(Lc)	工作長(Lw)	柄徑(d)	對邊(k)	邊長(Lk)			
M2.5*0.45	50	10			3	2.5	5H	II=5P	OA
M3*0.5	50	10			4	3.2	6H	II=5P	OA
M3.5*0.6	50	12			4	3.2	6H	II=5P	OA
M4*0.7	50	12			5	4	7H	II=5P	OA
M4.5*0.75	50	12			5	4	7H	II=5P	OA
M5*0.8	60	16			5.5	4.5	7H	II=5P	OA
M6*1.0	60	16			6	4.5	7H	II=5P	OA
M8*1.25	70	20			6.2	5	8H	II=5P	OA
M10*1.5	75	23			7	5.5	8H	II=5P	OA
M12*1.75	75	23			8.5	6.5	9H	II=5P	OA
M14*2.0	75	23			10.5	8	11H	II=5P	C/CH
M16*2.0	75	23			12.5	10	13H	II=5P	C/CH

公制細牙規格 M Metric Thread	形 狀 Shape				四方柄 Square		精 度 Class	無效牙長 倒 角 Chamfer Length	備 註 Remarks
	總長(L)	刃長(Lc)	工作長(Lw)	柄徑(d)	對邊(k)	邊長(Lk)			
MF4*0.5	50	12			5	4	7H	II=5P	OA
MF5*0.5	60	12			5.5	4.5	7H	II=5P	OA
MF6*0.5	60	12			6	4.5	7H	II=5P	OA
MF6*0.75	60	16			6	4.5	7H	II=5P	OA
MF8*0.75	70	16			6.2	5	8H	II=5P	OA
MF8*1.0	70	20			6.2	5	8H	II=5P	OA
MF10*0.75	75	23			7	5.5	8H	II=5P	OA
MF10*1.0	75	23			7	5.5	8H	II=5P	OA
MF10*1.25	75	23			7	5.5	8H	II=5P	OA
MF12*1.0	75	23			8.5	6.5	9H	II=5P	OA
MF12*1.25	75	23			8.5	6.5	9H	II=5P	OA
MF12*1.5	75	23			8.5	6.5	9H	II=5P	OA
MF14*1.0	75	23			10.5	8	11H	II=5P	C/CH
MF14*1.25	75	23			10.5	8	11H	II=5P	C/CH
MF14*1.5	75	23			10.5	8	11H	II=5P	C/CH
MF16*1.0	75	23			12.5	10	13H	II=5P	C/CH

全鎢鋼直溝先端絲攻-統一螺紋-JIS方頭圓柄

跳牙全鎢鋼直溝先端絲攻-統一螺紋-JIS方頭圓柄

Solid Carbide Taps -Straight Pointed Flutes-Unified Thread (JIS Shank)

Interrupted Solid Carbide Taps -Straight Pointed Flutes-Unified Thread (JIS Shank)

選用：鍍鉻 跳牙 Selection : Coated Interrupted

統一螺紋粗牙規格UNC Unified Coarse Thread	形狀 Shape			四方柄 Square		精 度 Class	無效牙長 倒 角 Chamfer Length	備 註 Remarks	
	總長(L)	刃長(Lc)	工作長(Lw)	柄徑(d)	對邊(k)				
#4-40UNC	50	10		3	2.5	5	2B	II=5P	OA
#5-40UNC	50	10		4	3.2	6	2B	II=5P	OA
#6-32UNC	50	12		4	3.2	6	2B	II=5P	OA
#8-32UNC	50	12		5	4	7	2B	II=5P	OA
#10-24UNC	60	16		5.5	4.5	7	2B	II=5P	OA
#12-24UNC	60	16		5.5	4.5	7	2B	II=5P	OA
1/4-20UNC	60	16		6	4.5	7	2B	II=5P	OA
5/16-18UNC	70	20		6.1	5	8	2B	II=5P	OA
3/8-16UNC	75	23		7	5.5	8	2B	II=5P	OA
7/16-14UNC	75	23		8	6	9	2B	II=5P	OA
1/2-13UNC	75	23		9	7	10	2B	II=5P	OA
9/16-12UNC	75	23		10.5	8	11	2B	II=5P	C/CH
5/8-11UNC	75	23		12	9	12	2B	II=5P	C/CH

統一螺紋細牙規格UNF Unified Fine Thread	形狀 Shape			四方柄 Square		精 度 Class	無效牙長 倒 角 Chamfer Length	備 註 Remarks	
	總長(L)	刃長(Lc)	工作長(Lw)	柄徑(d)	對邊(k)				
#4-48UNF	50	10		3	2.5	5	2B	II=5P	OA
#5-44UNF	50	10		4	3.2	6	2B	II=5P	OA
#6-40UNF	50	12		4	3.2	6	2B	II=5P	OA
#8-36UNF	50	12		5	4	7	2B	II=5P	OA
#10-32UNF	60	16		5.5	4.5	7	2B	II=5P	OA
#12-28UNF	60	16		5.5	4.5	7	2B	II=5P	OA
1/4-28UNF	60	16		6	4.5	7	2B	II=5P	OA
5/16-24UNF	70	20		6.1	5	8	2B	II=5P	OA
3/8-24UNF	75	23		7	5.5	8	2B	II=5P	OA
7/16-20UNF	75	23		8	6	9	2B	II=5P	OA
1/2-20UNF	75	23		9	7	10	2B	II=5P	OA
9/16-18UNF	75	23		10.5	8	11	2B	II=5P	A/C/CH
5/8-18UNF	75	23		12	9	12	2B	II=5P	A/C/CH

統一螺紋極細牙規格UNEF Unified Extreme Fine Thread	形狀 Shape			四方柄 Square		精 度 Class	無效牙長 倒 角 Chamfer Length	備 註 Remarks	
	總長(L)	刃長(Lc)	工作長(Lw)	柄徑(d)	對邊(k)				
#12-32UNEF	60	16		5.5	4.5	7	2B	II=5P	OA
1/4-32UNEF	60	16		6	4.5	7	2B	II=5P	OA
5/16-32UNEF	70	20		6.1	5	8	2B	II=5P	OA
3/8-32UNEF	75	23		7	5.5	8	2B	II=5P	OA
7/16-28UNEF	75	23		8	6	9	2B	II=5P	OA
1/2-28UNEF	75	23		9	7	10	2B	II=5P	OA
9/16-24UNEF	75	23		10.5	8	11	2B	II=5P	A/C/CH
5/8-24UNEF	75	23		12	9	12	2B	II=5P	A/C/CH

焊接鎢鋼直溝絲攻-公制螺紋/JIS方頭圓柄

跳牙焊接鎢鋼直溝絲攻-公制螺紋/JIS方頭圓柄

Welded Carbide Taps -Straight Flutes-Metric Thread/Unified Thread (JIS Shank)

Interrupted Welded Carbide Taps -Straight Flutes-Metric Thread/Unified Thread (JIS Shank)

選用：鍍鉻 跳牙 Selection : Coated Interrupted

公制螺紋 M Metric Thread	形 狀 Shape			四方柄 Square		無效牙長 倒 角 Chamfer Length	備 註 Remarks	
	外徑(O.D.)	牙距(Pitch)	總長(L)	刃長(Lc)	工作長(Lw)	柄徑(d)	對邊(k)	邊長(Lk)
M12	1.0	85	18			10.5	8	11
	1.25	85	18			10.5	8	11
M14	1.5	100	18			12.5	10	13
	1.0	100	18			14	11	14
M16	1.25	100	18			15	12	15
	1.5	100	18			15	12	15
M18	2.0	100	22			15	12	15
	1.0	100	22			15	12	15
M20	1.25	100	22			15	12	15
	1.5	100	22			15	12	15
M21	2.0	100	22			15	12	15
	1.0	100	22			15	12	15
M22	1.25	100	22			17	13	16
	1.5	100	22			19	15	18
M24	2.0	100	22			20	15	18
	1.0	110	22			20	15	18
M25	1.25	110	22			20	15	18
	1.5	110	22			20	15	18
M26	2.0	110	22			20	15	18
	1.0	110	22			20	15	18
M27	1.25	110	22			20	15	18
	1.5	110	22			22	17	20
M28	2.0	110	22			22	17	20
	1.0	110	22			23	17	20
M30	1.25	110	22			23	17	20
	1.5	110	22			23	17	20
M32	2.0	110	22			24	19	22
	1.0	110	22			24	19	22
M33	1.25	110	22			25	19	22
	1.5	110	22			26	21	24
M34	2.0	110	22			26	21	24
	1.0	110	22			26	21	24
M35	1.25	110	22			26	21	24
	1.5	110	22			26	21	24
	2.0							

焊接鎢鋼直溝絲攻-平行/錐度管用螺紋-JIS方頭圓柄

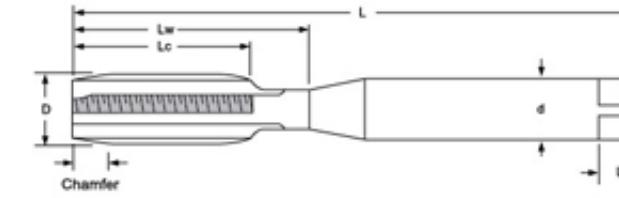
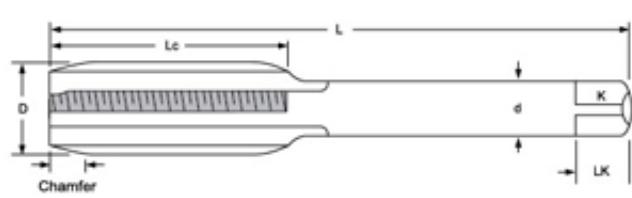
跳牙焊接鎢鋼直溝絲攻-平行/錐度管用螺紋-JIS方頭圓柄

Welded Carbide Taps -Straight Flutes-Parallel & Taper Pipe Thread (JIS Shank)

Interrupted Welded Carbide Taps -Straight Flutes-Parallel & Taper Pipe Thread (JIS Shank)

選用：□鍍鉻 □跳牙 Selection : □Coated □Interrupted

規格 Specification	形狀 Shape				四方柄 Square		無效牙長 倒角 Chamfer Length	備註 Remarks
	總長(L)	刃長(Lc)	工作長(Lw)	柄徑(d)	對邊(k)	邊長(Lk)		
管用平行牙規格 PF(G)&PS(Rp)								
(G)PF1/4-19	85	18		11	9	12	2P	A/B/C/CH
(G)PF3/8-19	100	18		14	11	14	2P	A/B/C/CH
(G)PF1/2-14	100	22		18	14	17	2P	A/B/C/CH
(G)PF3/4-14	100	22		23	17	20	2P	A/B/C/CH
(G)PF1-11	110	28		26	21	24	2P	A/B/C/CH
(G)PF1-1/4-11	120	28		32	26	26	2P	A/B/C/CH
(G)PF1-1/2-11	120	28		32	26	26	2P	A/B/C/CH
(G)PF2-11	120	28		32	26	26	2P	A/B/C/CH
(Rp)PS1/4-19	85	18		11	9	12	2P	A/B/C/CH
(Rp)PS3/8-19	100	18		14	11	14	2P	A/B/C/CH
(Rp)PS1/2-14	100	22		18	14	17	2P	A/B/C/CH
(Rp)PS3/4-14	100	22		23	17	20	2P	A/B/C/CH
(Rp)PS1-11	110	28		26	21	24	2P	A/B/C/CH
(Rp)PS1-1/4-11	120	28		32	26	26	2P	A/B/C/CH
(Rp)PS1-1/2-11	120	28		32	26	26	2P	A/B/C/CH
(Rp)PS2-11	120	28		32	26	26	2P	A/B/C/CH
美規管用平行牙規格 NPSM								
NPSM1/4-18	85	18		11	9	12	2P	A/B/C/CH
NPSM3/8-18	100	18		14	11	14	2P	A/B/C/CH
NPSM1/2-14	100	22		18	14	17	2P	A/B/C/CH
NPSM3/4-14	100	22		23	17	20	2P	A/B/C/CH
NPSM1-11.5	110	28		26	21	24	2P	A/B/C/CH
NPSM1-1/4-11.5	120	28		32	26	26	2P	A/B/C/CH
NPSM1-1/2-11.5	120	28		32	26	26	2P	A/B/C/CH
NPSM2-11.5	120	28		32	26	26	2P	A/B/C/CH



相關螺紋規格繁多，上表未列舉規格可接受訂製!! 〈如外觀尺寸變更將依本公司提供之產品為主〉

焊接鎢鋼直溝絲攻-平行/錐度管用螺紋-JIS方頭圓柄

跳牙焊接鎢鋼直溝絲攻-平行/錐度管用螺紋-JIS方頭圓柄

Welded Carbide Taps -Straight Flutes-Parallel & Taper Pipe Thread (JIS Shank)

Interrupted Welded Carbide Taps -Straight Flutes-Parallel & Taper Pipe Thread (JIS Shank)

選用：□鍍鉻 □跳牙 Selection : □Coated □Interrupted

規格 Specification	形狀 Shape				四方柄 Square		無效牙長 倒角 Chamfer Length	備註 Remarks
	總長(L)	刃長(Lc)	工作長(Lw)	柄徑(d)	對邊(k)	邊長(Lk)		
歐規管用推拔牙規格 PT(Rc)								
(Rc)PT1/4-19	85	18		11	9	12	2P	A/B/C
(Rc)PT3/8-19	100	18		14	11	14	2P	A/B/C
(Rc)PT1/2-14	100	22		18	14	17	2P	A/B/C
(Rc)PT3/4-14	100	22		23	17	20	2P	A/B/C
(Rc)PT1-11	110	28		26	21	24	2P	A/B/C
(Rc)PT1-1/4-11	120	28		32	26	26	2P	A/B/C
(Rc)PT1-1/2-11	120	28		32	26	26	2P	A/B/C
(Rc)PT2-11	120	28		32	26	26	2P	A/B/C
美規管用推拔牙規格 NPT								
NPT1/4-18	85	18		11	9	12	2P	A/B/C
NPT3/8-18	100	18		14	11	14	2P	A/B/C
NPT1/2-14	100	22		18	14	17	2P	A/B/C
NPT3/4-14	100	22		23	17	20	2P	A/B/C
NPT1-11.5	110	28		26	21	24	2P	A/B/C
NPT1-1/4-11.5	120	28		32	26	26	2P	A/B/C
NPT1-1/2-11.5	120	28		32	26	26	2P	A/B/C
NPT2-11.5	120	28		32	26	26	2P	A/B/C
美規管用推拔牙規格 NPTF								
NPTF1/4-18	85	18		11	9	12	2P	A/B/C
NPTF3/8-18	100	18		14	11	14	2P	A/B/C
NPTF1/2-14	100	22		18	14	17	2P	A/B/C
NPTF3/4-14	100	22		23	17	20	2P	A/B/C
NPTF1-11.5	110	28		26	21	24	2P	A/B/C
NPTF1-1/4-11.5	120	28		32	26	26	2P	A/B/C
NPTF1-1/2-11.5	120	28		32	26	26	2P	A/B/C
NPTF2-11.5	120	28		32	26	26	2P	A/B/C
美規管用推拔牙規格 PTF								
PTF1/4-18	85	18		11	9	12	2P	A/B/C
PTF3/8-18	100	18		14	11	14	2P	A/B/C
PTF1/2-14	100	22		18	14	17	2P	A/B/C
PTF3/4-14	100	22		23	17	20	2P	A/B/C
PTF1-11.5	110	28		26	21	24	2P	A/B/C
PTF1-1/4-11.5	120	28		32	26	26	2P	A/B/C
PTF1-1/2-11.5	120	28		32	26	26	2P	A/B/C
PTF2-11.5	120	28		32	26	26	2P	A/B/C

焊接鎢鋼直溝絲攻-平行/錐度管用螺紋-JIS方頭圓柄

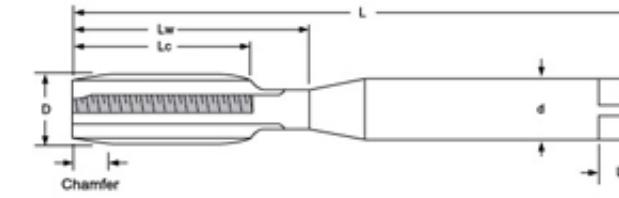
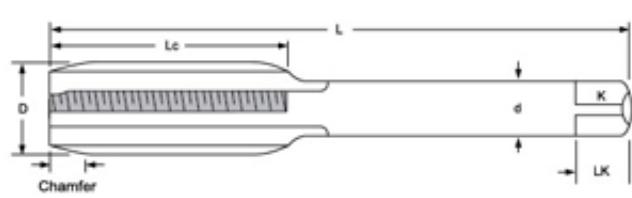
跳牙焊接鎢鋼直溝絲攻-平行/錐度管用螺紋-JIS方頭圓柄

Welded Carbide Taps -Straight Flutes-Parallel & Taper Pipe Thread (JIS Shank)

Interrupted Welded Carbide Taps -Straight Flutes-Parallel & Taper Pipe Thread (JIS Shank)

選用：□鍍鈦 □跳牙 Selection : □Coated □Interrupted

規格 Specification	形狀 Shape			四方柄 Square		無效牙長 倒角 Chamfer Length	備註 Remarks	
	總長(L)	刃長(Lc)	工作長(Lw)	柄徑(d)	對邊(k)			
管用平行牙規格 PF(G)&PS(Rp)								
(G)PF1/4-19	85	18		11	9	12	2P	A/B/C/CH
(G)PF3/8-19	100	18		14	11	14	2P	A/B/C/CH
(G)PF1/2-14	100	22		18	14	17	2P	A/B/C/CH
(G)PF3/4-14	100	22		23	17	20	2P	A/B/C/CH
(G)PF1-11	110	28		26	21	24	2P	A/B/C/CH
(G)PF1-1/4-11	120	28		32	26	26	2P	A/B/C/CH
(G)PF1-1/2-11	120	28		32	26	26	2P	A/B/C/CH
(G)PF2-11	120	28		32	26	26	2P	A/B/C/CH
(Rp)PS1/4-19	85	18		11	9	12	2P	A/B/C/CH
(Rp)PS3/8-19	100	18		14	11	14	2P	A/B/C/CH
(Rp)PS1/2-14	100	22		18	14	17	2P	A/B/C/CH
(Rp)PS3/4-14	100	22		23	17	20	2P	A/B/C/CH
(Rp)PS1-11	110	28		26	21	24	2P	A/B/C/CH
(Rp)PS1-1/4-11	120	28		32	26	26	2P	A/B/C/CH
(Rp)PS1-1/2-11	120	28		32	26	26	2P	A/B/C/CH
(Rp)PS2-11	120	28		32	26	26	2P	A/B/C/CH
美規管用平行牙規格 NPSM								
NPSM1/4-18	85	18		11	9	12	2P	A/B/C/CH
NPSM3/8-18	100	18		14	11	14	2P	A/B/C/CH
NPSM1/2-14	100	22		18	14	17	2P	A/B/C/CH
NPSM3/4-14	100	22		23	17	20	2P	A/B/C/CH
NPSM1-11.5	110	28		26	21	24	2P	A/B/C/CH
NPSM1-1/4-11.5	120	28		32	26	26	2P	A/B/C/CH
NPSM1-1/2-11.5	120	28		32	26	26	2P	A/B/C/CH
NPSM2-11.5	120	28		32	26	26	2P	A/B/C/CH



相關螺紋規格繁多，上表未列舉規格可接受訂製!! 〈如外觀尺寸變更將依本公司提供之產品為主〉

焊接鎢鋼直溝絲攻-平行/錐度管用螺紋-JIS方頭圓柄

跳牙焊接鎢鋼直溝絲攻-平行/錐度管用螺紋-JIS方頭圓柄

Welded Carbide Taps -Straight Flutes-Parallel & Taper Pipe Thread (JIS Shank)

Interrupted Welded Carbide Taps -Straight Flutes-Parallel & Taper Pipe Thread (JIS Shank)

選用：□鍍鈦 □跳牙 Selection : □Coated □Interrupted

規格 Specification	形狀 Shape			四方柄 Square		無效牙長 倒角 Chamfer Length	備註 Remarks	
	總長(L)	刃長(Lc)	工作長(Lw)	柄徑(d)	對邊(k)			
歐規管用推拔牙規格 PT(Rc)								
(Rc)PT1/4-19	85	18		11	9	12	2P	A/B/C
(Rc)PT3/8-19	100	18		14	11	14	2P	A/B/C
(Rc)PT1/2-14	100	22		18	14	17	2P	A/B/C
(Rc)PT3/4-14	100	22		23	17	20	2P	A/B/C
(Rc)PT1-11	110	28		26	21	24	2P	A/B/C
(Rc)PT1-1/4-11	120	28		32	26	26	2P	A/B/C
(Rc)PT1-1/2-11	120	28		32	26	26	2P	A/B/C
(Rc)PT2-11	120	28		32	26	26	2P	A/B/C
美規管用推拔牙規格 NPT								
NPT1/4-18	85	18		11	9	12	2P	A/B/C
NPT3/8-18	100	18		14	11	14	2P	A/B/C
NPT1/2-14	100	22		18	14	17	2P	A/B/C
NPT3/4-14	100	22		23	17	20	2P	A/B/C
NPT1-11.5	110	28		26	21	24	2P	A/B/C
NPT1-1/4-11.5	120	28		32	26	26	2P	A/B/C
NPT1-1/2-11.5	120	28		32	26	26	2P	A/B/C
NPT2-11.5	120	28		32	26	26	2P	A/B/C
美規管用推拔牙規格 NPTF								
NPTF1/4-18	85	18		11	9	12	2P	A/B/C
NPTF3/8-18	100	18		14	11	14	2P	A/B/C
NPTF1/2-14	100	22		18	14	17	2P	A/B/C
NPTF3/4-14	100	22		23	17	20	2P	A/B/C
NPTF1-11.5	110	28		26	21	24	2P	A/B/C
NPTF1-1/4-11.5	120	28		32	26	26	2P	A/B/C
NPTF1-1/2-11.5	120	28		32	26	26	2P	A/B/C
NPTF2-11.5	120	28		32	26	26	2P	A/B/C
美規管用推拔牙規格 PTF								
PTF1/4-18	85	18		11	9	12	2P	A/B/C
PTF3/8-18	100	18		14	11	14	2P	A/B/C
PTF1/2-14	100	22		18	14	17	2P	A/B/C
PTF3/4-14	100	22		23	17	20	2P	A/B/C
PTF1-11.5	110	28		26	21	24	2P	A/B/C
PTF1-1/4-11.5	120	28		32	26	26	2P	A/B/C
PTF1-1/2-11.5	120	28		32	26	26	2P	A/B/C
PTF2-11.5	120	28		32	26	26	2P	A/B/C

全鎢鋼無屑絲攻-公制螺紋&統一細螺紋-JIS方頭圓柄

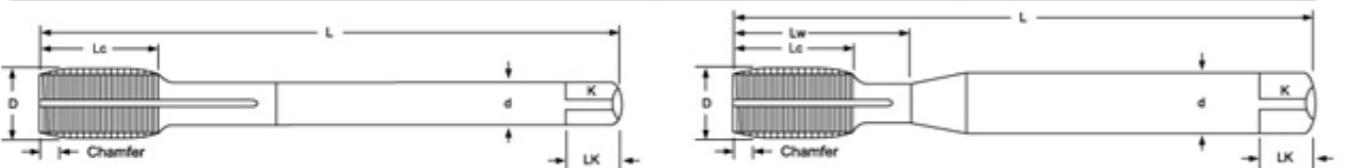
Solid Carbide Taps -Fluteless (Roll Form)-Metric & Unified Fine Thread (JIS Shank)

Solid Carbide Taps -Fluteless (Roll Form)-Metric Thread (JIS Shank)

公制螺紋 M/MF Metric Thread	形 狀 Shape				四方柄 Square		精 度 Class	無效牙長 倒 角 Chamfer Length	備 註 Remarks
	總長 (L)	刃長(Lc)	工作長(Lw)	柄徑 (d)	對邊(k)	邊長 (Lk)			
M1.4*0.3	50	6		3	2.5	5	6H	2P/4P	
M1.6*0.35	50	6		3	2.5	5	6H	2P/4P	
M1.8*0.35	50	6		3	2.5	5	6H	2P/4P	
M2*0.4	50	6		3	2.5	5	6H	2P/4P	
M2.5*0.45	50	6		3	2.5	5	6H	2P/4P	
M3*0.5	50	6		4	3.2	6	6H	2P/4P	
M3.5*0.6	50	6		4	3.2	6	6H	2P/4P	
M4*0.7	50	6		5	4	7	6H	2P/4P	
M5*0.8	60	7		5.5	4.5	7	6H	2P/4P	
M6*1.0	60	8		6	4.5	7	6H	2P/4P	
M8*1.25	70	10		6.2	5	8	6H	2P/4P	
M10*1.5	75	12		7	5.5	8	6H	2P/4P	
M12*1.75	75	14		8.5	6.5	9	6H	2P/4P	
MF4*0.5	50	8		5	4	7	6H	2P/4P	
MF5*0.5	60	8		5.5	4.5	7	6H	2P/4P	
MF6*0.5	60	8		6	4.5	7	6H	2P/4P	
MF6*0.75	60	8		6	4.5	7	6H	2P/4P	
MF8*0.75	70	8		6.2	5	8	6H	2P/4P	
MF8*1.0	70	10		6.2	5	8	6H	2P/4P	
MF10*0.75	75	8		7	5.5	8	6H	2P/4P	
MF10*1.0	75	10		7	5.5	8	6H	2P/4P	
MF10*1.25	75	12		7	5.5	8	6H	2P/4P	
MF12*1.0	75	12		8.5	6.5	9	6H	2P/4P	
MF12*1.25	75	12		8.5	6.5	9	6H	2P/4P	
MF12*1.5	75	12		8.5	6.5	9	6H	2P/4P	

Solid Carbide Taps -Fluteless (Roll Form)-Unified Thread (JIS Shank)

統一螺紋細螺紋 UNF Unified Fine Thread	形 狀 Shape				四方柄 Square		精 度 Class	無效牙長 倒 角 Chamfer Length	備 註 Remarks
	總長 (L)	刃長(Lc)	工作長(Lw)	柄徑 (d)	對邊(k)	邊長 (Lk)			
#0-80UNF	50	6		3	2.5	5	2B	2P/4P	
#1-72UNF	50	6		3	2.5	5	2B	2P/4P	
#2-64UNF	50	6		3	2.5	5	2B	2P/4P	
#3-56UNF	50	6		3	2.5	5	2B	2P/4P	
#4-48UNF	50	6		3	2.5	5	2B	2P/4P	
#5-44UNF	50	6		4	3.2	6	2B	2P/4P	
#6-40UNF	50	8		4	3.2	6	2B	2P/4P	
#8-36UNF	50	8		5	4	7	2B	2P/4P	
#10-32UNF	60	10		5.5	4.5	7	2B	2P/4P	
#12-28UNF	60	10		5.5	4.5	7	2B	2P/4P	
1/4-28UNF	60	10		6	4.5	7	2B	2P/4P	
5/16-24UNF	70	12		6.1	5	8	2B	2P/4P	
3/8-24UNF	75	12		7	5.5	8	2B	2P/4P	
7/16-20UNF	75	12		8	6	9	2B	2P/4P	
1/2-20UNF	75	12		9	7	10	2B	2P/4P	



全鎢鋼無屑絲攻-統一螺紋&管用螺紋-JIS方頭圓柄

Solid Carbide Taps -Fluteless (Roll Form)-Unified & Pipe Thread (JIS Shank)

統一螺紋粗牙螺紋 UNC 統一極細螺紋 UNEF Unified Thread	形 狀 Shape				四方柄 Square		精 度 Class	無效牙長 倒 角 Chamfer Length	備 註 Remarks
	總長 (L)	刃長(Lc)	工作長(Lw)	柄徑 (d)	對邊(k)	邊長 (Lk)			
#1-64UNC	50	6		3	2.5	5	2B	2P/4P	
#2-56UNC	50	6		3	2.5	5	2B	2P/4P	
#3-48UNC	50	6		3	2.5	5	2B	2P/4P	
#4-40UNC	50	6		3	2.5	5	2B	2P/4P	
#5-40UNC	50	6		4	3.2	6	2B	2P/4P	
#6-32UNC	50	8		4	3.2	6	2B	2P/4P	
#8-32UNC	50	8		5	4	7	2B	2P/4P	
#10-24UNC	60	10		5.5	4.5	7	2B	2P/4P	
1/4-20UNC	60	12		6	4.5	7	2B	2P/4P	
5/16-18UNC	70	14		6.1	5	8	2B	2P/4P	
3/8-16UNC	75	14		7	5.5	8	2B	2P/4P	
7/16-14UNC	75	16		8	6	9	2B	2P/4P	
1/2-13UNC	75	18		9	7	10	2B	2P/4P	
#12-32UNEF	60	10		5.5	4.5	7	2B	2P/4P	
1/4-32UNEF	60	12		6	4.5	7	2B	2P/4P	
5/16-32UNEF	70	12		6.1	5	8	2B	2P/4P	
3/8-32UNEF	75	12		7	5.5	8	2B	2P/4P	
7/16-28UNEF	75	12		8	6	9	2B	2P/4P	
1/2-28UNEF	75	12		9	7	10	2B	2P/4P	

平行&錐度管牙-全鎢鋼無屑絲攻-規格-JIS方頭圓柄 Solid Carbide Taps -Fluteless (Rolling)-Pipe Thread (JIS Shank)

管用平行螺紋 Pipe Parallel Thread (G)PF&(Rp)PS	形 狀 Shape				四方柄 Square		精 度 Class	無效牙長 倒 角 Chamfer Length	備 註 Remarks
	總長 (L)	刃長(Lc)	工作長(Lw)	柄徑 (d)	對邊(k)	邊長 (Lk)			
(G)PF1/16-28	60	9		8	6	9	ISO	2P/4P	
(G)PF1/8-28	60	9		8	6	9	ISO	2P/4P	
(G)PF1/4-19	75	13		11	9	12	ISO	2P/4P	
(Rp)PS1/16-2									

全鎢鋼螺旋溝-公制螺紋-JIS方頭圓柄

跳牙全鎢鋼螺旋溝-公制螺紋-JIS方頭圓柄

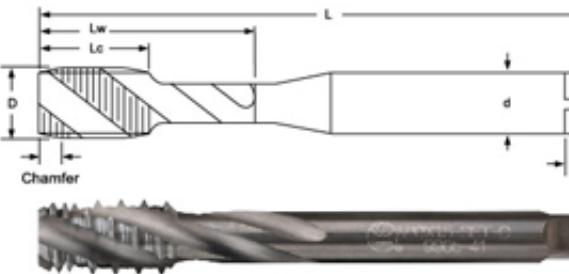
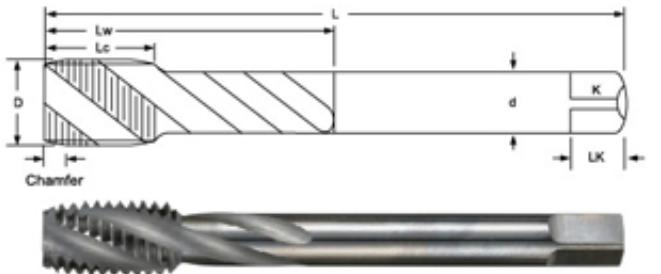
Solid Carbide Taps -Spiral Flutes-Metric Thread (JIS Shank)

Interrupted Solid Carbide Taps -Spiral Flutes-Metric Thread (JIS Shank)

選用：鍍鈦 跳牙 Selection : Coated Interrupted

公制粗牙規格 M Metric Thread	形狀 Shape			四方柄 Square		精 度 Class	無效牙長 倒 角 Chamfer Length	備 註 Remarks	
	總長(L)	刃長(Lc)	工作長(Lw)	柄徑(d)	對邊(k)				
M3*0.5	50	7		4	3.2	6	6H	2P	O/A/O
M3.5*0.6	50	7		4	3.2	6	6H	2P	O/A/O
M4*0.7	50	7		5	4	7	6H	2P	A/O/A/O
M4.5*0.75	50	8		5	4	7	6H	2P	A/O/A/O
M5*0.8	60	8		5.5	4.5	7	6H	2P	A/O/A/O
M6*1.0	60	10		6	4.5	7	6H	2P	A/C/O
M8*1.25	70	12		6.2	5	8	6H	2P	A/C/CH
M10*1.5	75	13		7	5.5	8	6H	2P	A/C/CH
M12*1.75	75	15		8.5	6.5	9	6H	2P	A/C/CH
M14*2.0	75	16		10.5	8	11	6H	2P	A/C/CH
MF16*2.0	75	16		12.5	10	13	6H	2P	A/C/CH

公制細牙規格 MF Metric Fine Thread	形 狀 Shape			四方柄 Square		精 度 Class	無效牙長 倒 角 Chamfer Length	備 註 Remarks	
	總長(L)	刃長(Lc)	工作長(Lw)	柄徑(d)	對邊(k)				
MF4*0.5	50	8		5	4	7	6H	2P	A/O/A/O
MF5*0.5	60	8		5.5	4.5	7	6H	2P	A/O/A/O
MF6*0.5	60	8		6	4.5	7	6H	2P	A/O/A/O
MF6*0.75	60	8		6	4.5	7	6H	2P	A/O/A/O
MF8*0.75	70	8		6.2	5	8	6H	2P	A/C/CH
MF8*1.0	70	10		6.2	5	8	6H	2P	A/C/CH
MF10*0.75	75	8		77	5.5	8	6H	2P	A/C/CH
MF10*1.0	75	10		7	5.5	8	6H	2P	A/C/CH
MF10*1.25	75	12		7	5.5	8	6H	2P	A/C/CH
MF12*1.0	75	12		8.5	6.5	9	6H	2P	A/C/CH
MF12*1.25	75	12		8.5	6.5	9	6H	2P	A/C/CH
MF12*1.5	75	12		8.5	6.5	9	6H	2P	A/C/CH
MF14*1.0	75	13		10.5	8	11	6H	2P	A/C/CH
MF14*1.25	75	13		10.5	8	11	6H	2P	A/C/CH
MF14*1.5	75	13		10.5	8	11	6H	2P	A/C/CH
MF16*1.0	75	13		12.5	10	13	6H	2P	A/C/CH
MF16*1.5	75	13		12.5	10	13	6H	2P	A/C/CH



相關螺紋規格繁多，上表未列舉規格可接受訂製!!（如外觀尺寸變更將依本公司提供之產品為主）

全鎢鋼螺旋溝-統一螺紋-JIS方頭圓柄

跳牙全鎢鋼螺旋溝-統一螺紋-JIS方頭圓柄

Solid Carbide Taps -Spiral Flutes-Unified Thread (JIS Shank)

Interrupted Solid Carbide Taps -Spiral Flutes-Unified Thread (JIS Shank)

選用：鍍鈦 跳牙 Selection : Coated Interrupted

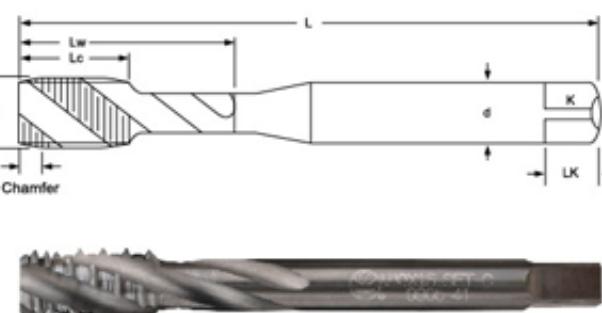
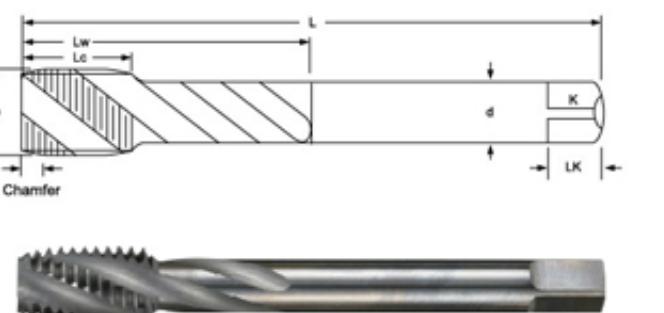
統一螺紋粗牙規格 UNC Unified Coarse Thread	形 狀 Shape			四方柄 Square		精 度 Class	無效牙長 倒 角 Chamfer Length	備 註 Remarks	
	總長(L)	刃長(Lc)	工作長(Lw)	柄徑(d)	對邊(k)				
#5-40UNC	50	8		4	3.2	6	2B	2P	O/A/O
#6-32UNC	50	8		4	3.2	6	2B	2P	O/A/O
#8-32UNC	50	8		5	4	7	2B	2P	A/O/A/O
#10-24UNC	60	10		5.5	4.5	7	2B	2P	A/O/A/O
#12-24UNC	60	10		5.5	4.5	7	2B	2P	A/O/A/O
1/4-20UNC	60	12		6	4.5	7	2B	2P	A/C/O
5/16-18UNC	70	14		6.1	5	8	2B	2P	A/C/CH
3/8-16UNC	75	16		7	5.5	8	2B	2P	A/C/CH
7/16-14UNC	75	18		8	6	9	2B	2P	A/C/CH
1/2-13UNC	75	20		9	7	10	2B	2P	A/C/CH
9/16-12UNC	75	20		10.5	8	11	2B	2P	A/C/CH
5/8-11UNC	75	20		12	9	12	2B	2P	A/C/CH

統一螺紋細牙規格 UNF Unified Fine Thread	形 狀 Shape			四方柄 Square		精 度 Class	無效牙長 倒 角 Chamfer Length	備 註 Remarks	
	總長(L)	刃長(Lc)	工作長(Lw)	柄徑(d)	對邊(k)				
#5-44UNF	50	7		4	3.2	6	2B	2P	O/A/O
#6-40UNF	50	7		4	3.2	6	2B	2P	O/A/O
#8-36UNF	50	7		5	4	7	2B	2P	A/O/A/O
#10-32UNF	60	8		5.5	4.5	7	2B	2P	A/O/A/O
#12-28UNF	60	9		5.5	4.5	7	2B	2P	A/O/A/O
1/4-28UNF	60	9		6	4.5	7	2B	2P	A/C/O
5/16-24UNF	70	10		6.1	5	8	2B	2P	A/C/CH
3/8-24UNF	75	10		7	5.5	8	2B	2P	A/C/CH
7/16-20UNF	75	12		8	6	9	2B	2P	A/C/CH
1/2-20UNF	75	12		9	7	10	2B	2P	A/C/CH
9/16-18UNF	75	14		10.5	8	11	2B	2P	A/C/CH
5/8-18UNF	75	14		12	9	12	2B	2P	A/C/CH

統一螺紋極細牙規格 UNEF Unified Extreme Fine Thread	形 狀 Shape			四方柄 Square		精 度 Class	無
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管用平行牙規格 Pipe Parallel Thread (G)PF&(Rp)PS	形 狀 Shape				四方柄 Square		精 度 Class	無效牙長	備 註 Remarks
	總長(L)	刃長(Lc)	工作長(Lw)	柄徑(d)	對邊(k)	邊長(Lk)		倒 角 Chamfer Length	
(G)PF1/16-28	60	10		8	6	9	ISO	2P	A/C/CH
(G)PF1/8-28	60	10		8	6	9	ISO	2P	A/C/CH
(G)PF1/4-19	75	13		11	9	12	ISO	2P	A/C/CH
(G)PF3/8-19	75	13		14	11	14	ISO	2P	A/C/CH
(Rp)PS1/16-28	60	10		8	6	9	ISO	2P	A/C/CH
(Rp)PS1/8-28	60	10		8	6	9	ISO	2P	A/C/CH
(Rp)PS1/4-19	75	13		11	9	12	ISO	2P	A/C/CH
(Rp)PS3/8-19	75	13		14	11	14	ISO	2P	A/C/CH
NPSM1/16-27	60	10		8	6	9	ANSI	2P	A/C/CH
NPSM1/8-27	60	10		8	6	9	ANSI	2P	A/C/CH
NPSM1/4-18	75	13		11	9	12	ANSI	2P	A/C/CH
NPSM3/8-18	75	13		14	11	14	ANSI	2P	A/C/CH

管用推拔牙規格 Pipe Taper Thread PT(Rc)& NPT&NPTF&PTF	形 狀 Shape				四方柄 Square		精 度 Class	無效牙長	備 註 Remarks
	總長(L)	刃長(Lc)	工作長(Lw)	柄徑(d)	對邊(k)	邊長(Lk)		倒 角 Chamfer Length	
NPT1/16-27	60	17		8	6	9	ISO	2P	A/C
NPT1/8-27	60	17		8	6	9	ISO	2P	A/C
NPT1/4-18	75	23		11	9	12	ISO	2P	A/C
NPT3/8-18	75	23		14	11	14	ISO	2P	A/C
(Rc)PT1/16-28	60	17		8	6	9	ANSI	2P	A/C
(Rc)PT1/8-28	60	17		8	6	9	ANSI	2P	A/C
(Rc)PT1/4-19	75	23		11	9	12	ANSI	2P	A/C
(Rc)PT3/8-19	75	23		14	11	14	ANSI	2P	A/C



客戶需求確認單-牙攻 (Requirement of order list-Tap)

適用材質分

1	硬化鋼 Hardness Steel	6	塑膠+碳纖 Plastic+Carbon Fiber	11	鉋銅 Cu > 85% Copper Alloy	16	航太鋁 T6061 Aluminum Alloy
2	硬化鐵 Hardness Iron	7	無鉛銅 No Lead Bronze	12	鋅合金 Zinc Alloy	17	鈦合金 Titanium Alloy
3	鑄鐵 FC/FCD Casting Iron	8	磷青銅 Bronze	13	紅銅管 Cu > 95% Copper Pipe	18	不鏽鋼 Stainless Steel
4	電木/膠木 Bakelite	9	鍛銅 Forming Brass	14	壓鑄鋁 A1-AC Casting Aluminum	19	碳鋼 Carbon Steel
5	碳纖維 Carbon Epoxy	10	黃銅 Brass(Cu58~65%)	15	拉鋁 A1-ADC Extruding Aluminum	20	工具鋼 Tool Steel

焊接鎢鋼螺旋溝-公制螺紋&統一螺紋-JIS方頭圓柄

跳牙焊接鎢鋼螺旋溝-公制螺紋&統一螺紋-JIS方頭圓柄

Welded Carbide Taps -Spiral Flutes-Metric & Unified Thread (JIS Shank)

Interrupted Welded Carbide Taps -Spiral Flutes-Metric & Unified Thread (JIS Shank)

選用：□鍍鈦 □跳牙 Selection : □Coated □Interrupted

公制螺紋 M Metric Thread		形 狀 Shape			四方柄 Square		無效牙長	備 註 Remarks	
公稱直徑(O.D.) Nominal size	牙距(Pitch)	總長(L)	刃長(Lc)	工作長(Lw)	柄徑(d)	對邊(k)	邊長(Lk)	倒角 Chamfer Length	
M14	1.0	100	12		12.5	10	13	2P	A/C/CH
M16	1.25	100	12		12.5	10	13	2P	A/C/CH
M18	1.5	100	12		14	11	14	2P	A/C/CH
M20		100	12		15	12	15	2P	A/C/CH
M21	1.0	100	12		15	12	15	2P	A/C/CH
M22	1.25	100	12		17	13	16	2P	A/C/CH
M24	1.5	100	12		19	15	18	2P	A/C/CH
M25	2.0	110	12		20	15	18	2P	A/C/CH
M26	1.0	110	12		20	15	18	2P	A/C/CH
M27	1.25	110	12		20	15	18	2P	A/C/CH
M28	1.5	110	12		22	17	20	2P	A/C/CH
M30	2.0	110	12		23	17	20	2P	A/C/CH
M32	1.0	110	15		24	19	22	2P	A/C/CH
M33	1.25	110	15		25	19	22	2P	A/C/CH
M34	1.5	110	15		26	21	24	2P	A/C/CH
	2.0								

焊接鎢鋼螺旋刃-統一螺紋-JIS方頭圓柄

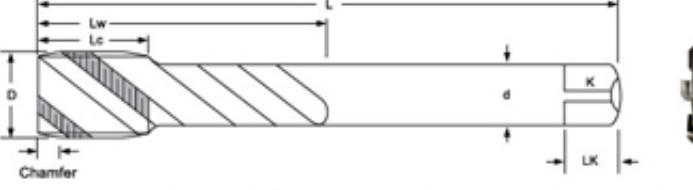
跳牙焊接鎢鋼螺旋刃-統一螺紋-JIS方頭圓柄

Welded Carbide Taps -Spiral Flutes-Unified Thread (JIS Shank)

Interrupted Welded Carbide Taps -Spiral Flutes-Unified Thread (JIS Shank)

選用：□鍍鈦 □跳牙 Selection : □Coated □Interrupted

統一螺紋 Unified Thread			形 狀 Shape			四方柄 Square		無效牙長	備 註 Remarks	
外徑(O.D.) Nominal size	公稱外徑 Nominal size	牙距(Pitch) TPI	總長(L)	刃長(Lc)	工作長(Lw)	柄徑(d)	對邊(k)	邊長(Lk)	倒角 Chamfer Length	
15.88	5/8"	U28/U27	100	12		12.5	10	13	2P	A/C/CH
17.46	11/16"	U24/U20	100	12		14	11	14	2P	A/C/CH
19.05	3/4"	U18/U16	100	12		14	11	14	2P	A/C/CH
20.64	13/16"	U24/U20	100	12		15	12	15	2P	A/C/CH
22.23	7/8"	U18/U16	100	12		17	13	16	2P	A/C/CH
23.81	15/16"	U14/U12	100	12		19	15	18	2P	A/C/CH
25.40	1"	U14/U12	110	12		20	15	18	2P	A/C/CH
26.99	1 1/16"	U24/U20	110	12		20	15	18	2P	A/C/CH
28.58	1 1/8"	U18/U16	110	12		22	17	20	2P	A/C/CH
30.16	1 3/16"	U14/U12	110	12		23	17	20	2P	A/C/CH
31.75	1 1/4"	U14/U12	110	12		24	19	22	2P	A/C/CH
33.34	1 5/16"	U24/U20	110	15		25	19	22	2P	A/C/CH
34.93	1 3/8"	U18/U16	110	15		26	21	24	2P	A/C/CH
36.51	1 7/16"	U14/U12	110	15		28	21	24	2P	A/C/CH
38.10	1 1/2"	U14/U12	110	15		30	23	26	2P	A/C/CH



相關螺紋規格繁多，上表未列舉規格可接受訂製!!（如外觀尺寸變更將依本公司提供之產品為主）

焊接鎢鋼螺旋溝-平行&錐度管用螺紋-JIS方頭圓柄

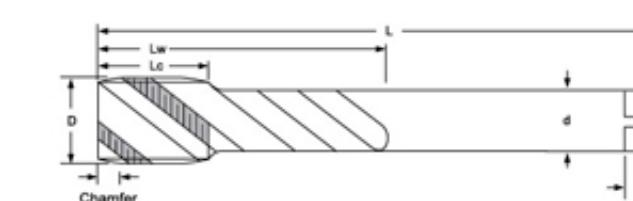
跳牙焊接鎢鋼螺旋溝-平行&錐度管用螺紋-JIS方頭圓柄

Welded Carbide Taps -Spiral Flutes-Parallel & Taper Pipe Thread (JIS Shank)

Interrupted Welded Carbide Taps -Spiral Flutes-Parallel & Taper Pipe Thread (JIS Shank)

選用：□鍍鈦 □跳牙 Selection : □Coated □Interrupted

規 格 Specification	形 狀 Shape			四方柄 Square		無效牙長	備 註 Remarks
	總長(L)	刃長(Lc)	工作長(Lw)	柄徑(d)	對邊(k)	邊長(Lk)	
管用平行螺紋 PF(G)&PS(Rp)							
PF3/8-19	100	12			14	11	14
PF1/2-14	100	12			18	14	17
PF3/4-14	100	12			23	17	20
PF1-11	110	15			26	21	24
PF1-1/4-11	120	15			32	26	26
PF1-1/2-11	120	15			32	26	26
PF-2-11	120	15			32	26	26
美規管用平螺紋 NPSM							
NPSM3/8-18	100	12			14	11	14
NPSM1/2-14	100	12			18	14	17
NPSM3/4-14	100	12			23	17	20
NPSM1-11.5	110	15			26	21	24
NPSM1-1/4-11.5	120	15			32	26	26
NPSM1-1/2-11.5	120	15			32	26	26
NPSM2-11.5	120	15			32	26	26
歐規管用推螺紋 PT							
PT3/8-19	100	20			14	11	14
PT1/2-14	100	22			18	14	17
PT3/4-14	100	22			23	17	20
PT1-11	110	28			26	21	24
PT1-1/4-11	120	28			32	26	26
PT1-1/2-11	120	28			32	26	26
PT2-11	120	28			32	26	26
美規管用推螺紋 NPT							
NPT3/8-18	100	20			14	11	14
NPT1/2-14	100	22			18	14	17
NPT3/4-14	100	22			23	17	20
NPT1-11.5	110	28			26	21	24
NPT1-1/4-11.5	120	28			32	26	26
NPT1-1/2-11.5	120	28			32	26	26
NPT2-11.5	120	28			32	26	26



相關螺紋規格繁多，上表未列舉規格可接受訂製!!（如外觀尺寸變更將依本公司提供之產品為主）

Carbide Taps, Carbide Thread Dies, Carbide Thread Mills, Tap/Die Chaser UGMIC is Your Best Choice! <http://www.ugmic.com.tw>

專利鎢鋼板牙(丸駒)本體調節尺寸部分具有以下特徵：

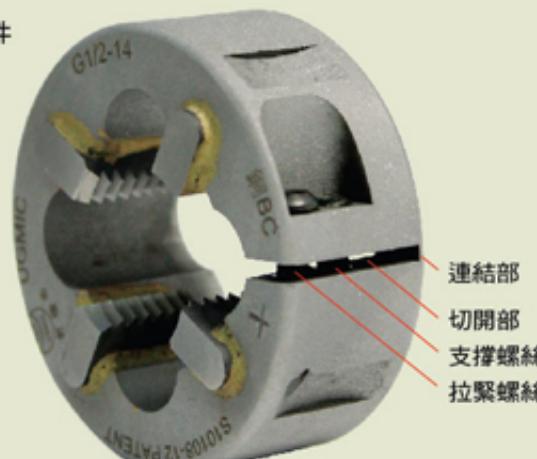
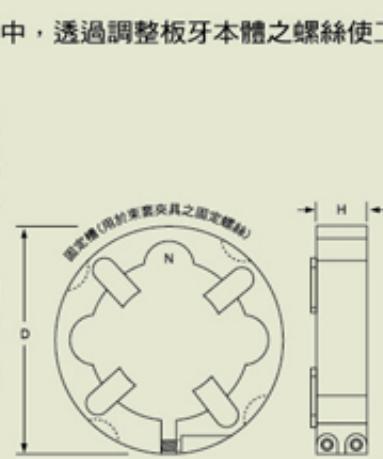
- 切開部/可調整螺紋尺寸(縮小)之空間。
- 連結部/可維持板牙本體同心度與剛性，避免產生喇叭狀錐度而造成螺紋平行度不足。
- 拉緊螺絲/可於板牙裝夾前調整(縮小)螺紋尺寸，達到良好剛性。
- 支撑螺絲/可於板牙裝夾前調整(擴大)螺紋尺寸，達到良好剛性。

操作方法：

1. 將合格的工件產品旋入板牙中，透過調整板牙本體之螺絲使工件產品與板牙間滑順配合。

2. 將板牙放入板牙套中，調整板牙套與板牙的同心度，最後檢驗主軸與板牙套的同心度，可達精密生產的標準。

3. 必要時可切開連結部可增加螺紋尺寸縮小的範圍，並重複前項步驟以求產品達到合格要求。

公制螺紋-可調式鎢鋼丸駒規格表
Metric Thread-Adjustable Carbide Dies選用：□鍍鈦 □跳牙 Selection : Coated Interrupted

螺紋公稱 Thread		外型尺寸 Shape Size		
規格Size	牙距 Pitch	外徑 D	刃數 N	高度 H
M3	0.5	25	3	10
M3.5	0.6	25	3	10
M4	0.5/0.7	25	3	10
M5	0.5/0.8	25	3	10
M6	0.5/0.75/1.0	25	3	10
M8	0.75/1.0/1.25	25	4	10
M10	0.75/1.0/1.25/1.5	25/38	4	10
M12	1.0/1.25/1.5/1.75	38/50	4	18
M14	1.0/1.25/1.5/2.0	38/50	4	18/20
M15	1.0/1.5	38/50	4	18/20
M16	1.0/1.25/1.5/2.0	38/50	4	18/20
M18	1.0/1.5/2.0	50	4/5	20
M20	1.0/1.5/2.0	50	4/5	20
M22	1.0/1.5/2.0	50	4/5	20
M24	1.0/1.5/2.0	50	4/5	20
M25	1.0/1.5	50	4/5	20
M26	1.0/1.5/2.0	50	4/5	20
M27	1.0/1.5	50	4/5	20
M28	1.0/1.5/2.0	50	4/5	20
M30	1.0/1.5/2.0	60/63	6	20
M32	1.0/1.5/2.0	60/63	6	20
M33	1.0/1.5/2.0	60/63	6	20

惠氏螺紋-可調式鎢鋼丸駒規格表
Whitworth Thread-Adjustable Carbide Dies

螺紋公稱 W-Thread		外型尺寸 Shape Size		
規格Size	牙距 TPI	外徑 D	刃數 N	高度 H
7/32"	W24	25	3	10
1/4"	W20	25	3	10
5/16"	W18	25	4	10
3/8"	W16	25/38	4	10/18
7/16"	W14	38/50	4	18/20
1/2"	W12	38/50	4	18/20
9/16"	W12	38/50	4	18/20
5/8"	W11	38/50	4	18/20
3/4"	W10	50	4/5	20

相關螺紋規格繁多，上表未列舉規格可接受訂製!! (如外觀尺寸變更將依本公司提供之產品為主)

可調式鎢鋼丸駒(板牙) & 跳牙型
Adjustable Carbide Thread Dies & Interrupted Flutes美制螺紋-可調式鎢鋼丸駒規格表
Unified Thread-Adjustable Carbide Dies選用：□鍍鈦 □跳牙 Selection : Coated Interrupted

螺紋公稱 Thread	牙距 TPI					外型尺寸 Shape Size		
規格Size	UN-Thread	UNC-Thread	UNF-Thread	UNEF-Thread	UNS-Thread	外徑 D	刃數 N	高度 H
No.6		U32				25	3	10
No.8		U32				25	3	10
No.10		U24				25	3	10
No.12	U24	U28	U32			25	3	10
1/4"	U20	U28	U32			25	4	10
5/16"	U18	U24	U32			25	4	10
3/8"	U16	U24	U32			25/38	4	10/18
7/16"	U14	U20	U28			38/50	4	18/20
1/2"	U13	U20	U28			38/50	4	18/20
9/16"	U18	U24	U32			38/50	4	18/20
5/8"	U18	U24	U32			38/50	4	18/20
11/16"		U24				50	4	20
3/4"	U16	U20	U18/U27			50	4/5	20
13/16"		U20	U18/U27			50	4/5	20
7/8"	U14	U20	U18/U27			50	4/5	20
15/16"		U20	U18/U27			50	4/5	20
1"	U12	U20	U18/U24			50	4/5	20
1,1/16"		U18	U20/U24			50	5	20
1,1/8"	U12	U18	U20			60/63	6	20
1,3/16"		U18	U20			60/63	6	20
1,1/4"	U12	U18	U20			60/63	6	20
1,5/16"		U18	U20			60/63	6	20
1,3/8"	U12	U18				60/63	6	20
1,7/16"		U18				60/63	6	20
1,1/2"		U12	U18			60/63	6	22
1,9/16"			U18			70/75	6	22
1,5/8"			U18			70/75	6	22
1,11/16"			U18			70/75	6	22

ISO (G) 平行管用螺紋-可調式鎢鋼丸駒規格表
ISO (G) Parallel Pipe Thread -Adjustable Carbide Dies選用：□鍍鈦 □跳牙 Selection : Coated Interrupted

螺紋公稱 G-Thread	外型尺寸 Shape Size		
規格Size	牙距 TPI	外徑 D	刃數 N
G1/16	28	25/38	4
G1/8	28	25/38	4
G1/4	19	38/50	4
G3/8	19	50	4
G1/2	14	50	4/5
G3/4	14	50	4/5
G1	11	60/63	6
G1,1/4	11	70/75	6
G1,1/2	11	80	7
G2	11	90	7

相關螺紋規格繁多，上表未列舉規格可接受訂製!! (如外觀尺寸變更將依本公司提供之產品為主)

ISO (Rp)平行管用螺紋-可調式鎢鋼丸駒規格表
ISO (Rp)Parallel Pipe Thread -Adjustable Carbide Dies選用：□鍍鈦 □跳牙 Selection : Coated Interrupted

螺紋公稱 Rp-Thread	外型尺寸 Shape Size		
規格Size	牙距 TPI	外徑 D	刃數 N
Rp1/8"	28	25/38	4
Rp1/4"	19	38/50	4
Rp3/8"	19	50	4
Rp1/2"	14	50	4/5
Rp3/4"	14	50	4/5
Rp1"	11	60/63	6
Rp1,1/4"	11	70/75	6
Rp1,1/2"	11	80	7
Rp2"	11	90	7

相關螺紋規格繁多，上表未列舉規格可接受訂製!! (如外觀尺寸變更將依本公司提供之產品為主)

可調式鎢鋼丸駒(板牙) & 跳牙型

Adjustable Carbide Thread Dies & Interrupted Type

ISO (R) 推拔管用螺紋-可調式鎢鋼丸駒規格表

ISO (R) Pipe Thread-Adjustable Carbide Dies

選用：鍍鉻 跳牙 Selection : Coated Interrupted

螺紋公稱 R=PT-Thread		外型尺寸 Shape Size		
規格Size	牙距 TPI	外徑 D	刃數 N	高度 H
R1/16"	28	25/38	4	10/18
R1/8"	28	25/38	4	10/18
R1/4"	19	38/50	4	18/20
R3/8"	19	50	4	20
R1/2"	14	50	4/5	20
R3/4"	14	50	4/5	20
R1"	11	60/63	6	20
R1,1/4"	11	70/75	6	22
R1,1/2"	11	80	7	22
R2"	11	90	7	24

美規平行管用螺紋-可調式鎢鋼丸駒規格表

(NPSM) Parallel Pipe Thread-Adjustable Carbide Dies

選用：鍍鉻 跳牙 Selection : Coated Interrupted

螺紋公稱 NPSM-Thread		外型尺寸 Shape Size		
規格Size	牙距 TPI	外徑 D	刃數 N	高度 H
NPSM1/8"	27	25/38	4	10/18
NPSM1/4"	18	38/50	4	18/20
NPSM3/8"	18	50	4	20
NPSM1/2"	14	50	4/5	20
NPSM3/4"	14	50	4/5	20
NPSM1"	11.5	60/63	6	20
NPSM1,1/4"	11.5	70/75	6	22
NPSM1,1/2"	11.5	80	7	22
NPSM2"	11.5	90	7	24

美規推拔管用螺紋-可調式鎢鋼丸駒規格表

(NPT) Taper Pipe Thread-Adjustable Carbide Dies

選用：鍍鉻 跳牙 Selection : Coated Interrupted

螺紋公稱 NPT-Thread		外型尺寸 Shape Size		
規格Size	牙距 TPI	外徑 D	刃數 N	高度 H
NPT1/16"	27	25/38	4	10/18
NPT1/8"	27	25/38	4	10/18
NPT1/4"	18	38/50	4	18/20
NPT3/8"	18	50	4	20
NPT1/2"	14	50	4/5	20
NPT3/4"	14	50	4/5	20
NPT1"	11.5	60/63	6	20
NPT1,1/4"	11.5	70/75	6	22
NPT1,1/2"	11.5	80	7	22
NPT2"	11.5	90	7	24

美規乾封推拔管用螺紋-可調式鎢鋼丸駒規格表

(NPTF) Taper Dry Pipe Thread-Adjustable Carbide Dies

選用：鍍鉻 跳牙 Selection : Coated Interrupted

螺紋公稱 NPTF-Thread		外型尺寸 Shape Size		
規格Size	牙距 TPI	外徑 D	刃數 N	高度 H
NPTF1/8"	27	25/38	4	10/18
NPTF1/4"	18	38/50	4	18/20
NPTF3/8"	18	50	4	20
NPTF1/2"	14	50	4/5	20
NPTF3/4"	14	50	4/5	20
NPTF1"	11.5	60/63	6	20
NPTF1,1/4"	11.5	70/75	6	22
NPTF1,1/2"	11.5	80	7	22
NPTF2"	11.5	90	7	24

可調式無屑鎢鋼丸駒(板牙) Adjustable Carbide Thread Roll Form

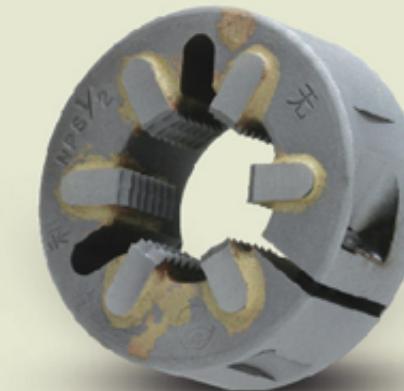
專用於空心薄管件之外螺紋轉造加工。

用途 ■ 用於延展性佳，空心薄管件之外螺紋轉造加工。

- 用於尺寸過大之產品補救。

優勢 ■ 可節省材料成本，提高螺紋部強度。

- 避免刮傷產品表面。



可調式高速鋼丸駒(板牙) Adjustable HSS-Co Thread Cutting Dies

用途 ■ 專用於不銹鋼材料之螺紋加工。

- 採用進口含鈷高速鋼材質經特殊熱處理。

優勢 ■ 要求達高硬度，高強度之高耐用度要求。



可調式帶柄丸駒(板牙) Adjustable Carbide Thread Cutting Dies With Holder

優勢 ■ 同心度高，調整尺寸便利。

- 剛性佳，耐用度高。

- 凸型端面設計可避開干涉部位。



捨棄式可調帶柄鎢鋼丸駒(板牙) Adjustable Thread Dies & Insert Chasers

針對螺紋角度過大且一般丸駒(板牙)不易生產之替代方案，大幅降低成本。

常用規格如下：

7.6TW12-2L
7.8TW12-2L
8.0TW12-2L
9.0TW10-2L
11.0TW10-2L
Tr10x2.0-2LH
Tr10x3.0-2LH

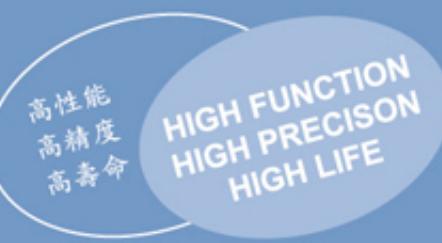
訂製款
Custom Type



鎢鋼螺紋切削工具-螺紋銑刀

(Tungsten Carbide Thread-cutting Tool for CNC Machining Center)

- 特殊切削角處理，切削性能高，精度高。
- 特殊鎢鋼，硬度高耐磨损，壽命長，品質穩定。
- 依被削材質需求，訂製適合之螺旋銑刀，高度客製化產品。
- 依被需求增加奈米TiAlCn塗層，延長刀具壽命。
- Specially-treated clearance angle for highly-effective and precision cutting.
- Special tungsten carbide that is hard, wear-resistant to ensure durability and consistent quality.
- Custom-made to suit workpiece.
- TiAlCrN coating to extend tool life optional.



行星式螺紋銑刀 (Thread Milling Cutter)

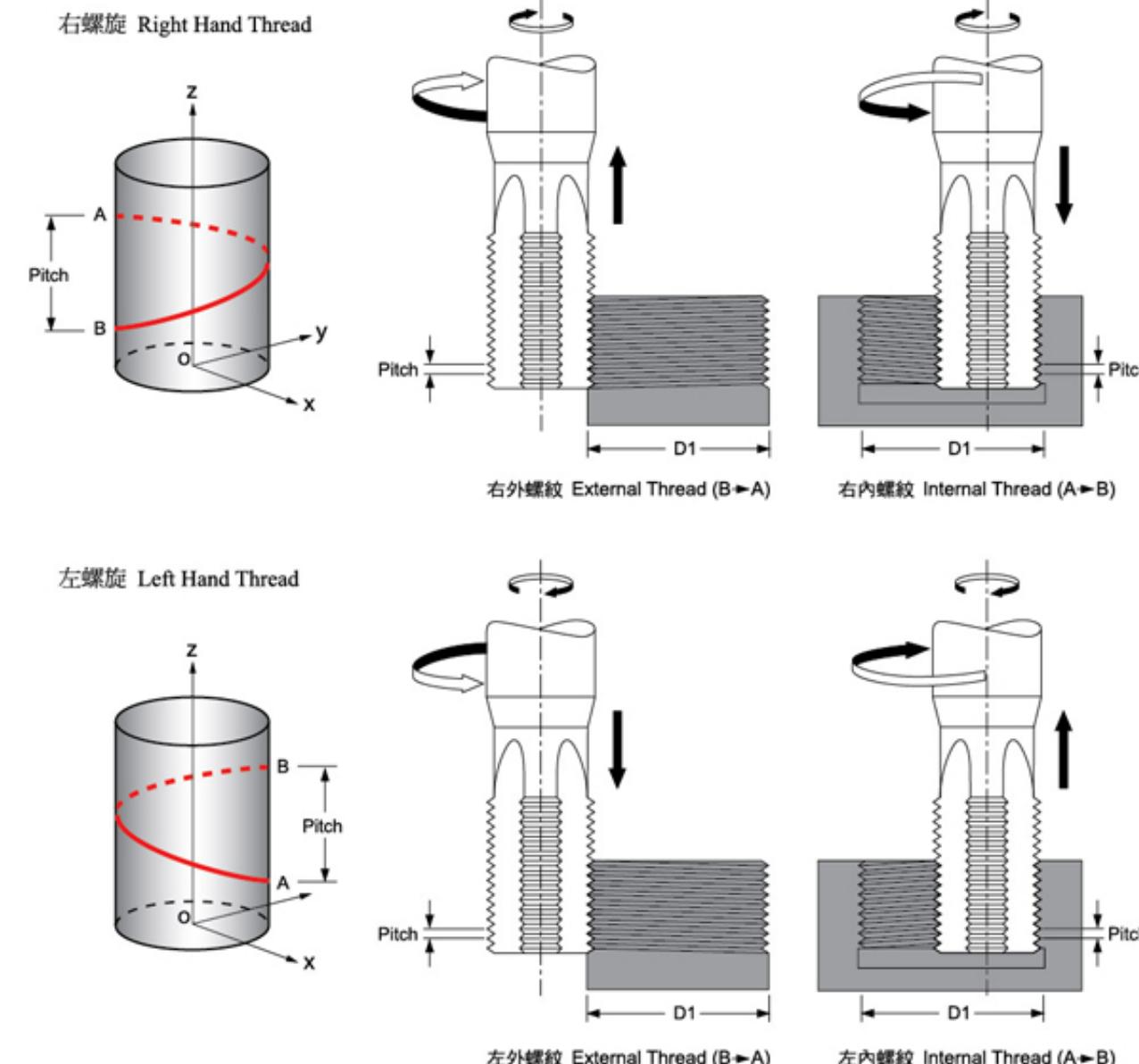
行星式螺紋銑刀為電腦加工中心機所開發之高效能螺紋生產刀具

- 主要利用電腦加工中心機之三軸同動原理銑削生產螺紋
- 同一把螺紋銑刀透過電腦程序控制，可生產相同牙距之左右螺紋與內外螺紋，並可控制生產不同尺寸與公差要求之螺紋產品。

Thread-milling Cutter — Highly-effective for CNC Machining Center

- Mills, cuts threads via simultaneous X, Y and Z-axis.
- CNC cuts left, right, internal and external threads with one pitch as well as threads of different specs and tolerance without changing tool.

牙銑刀加工路徑-Z軸向 (Thread Milling Path-Z Axis)



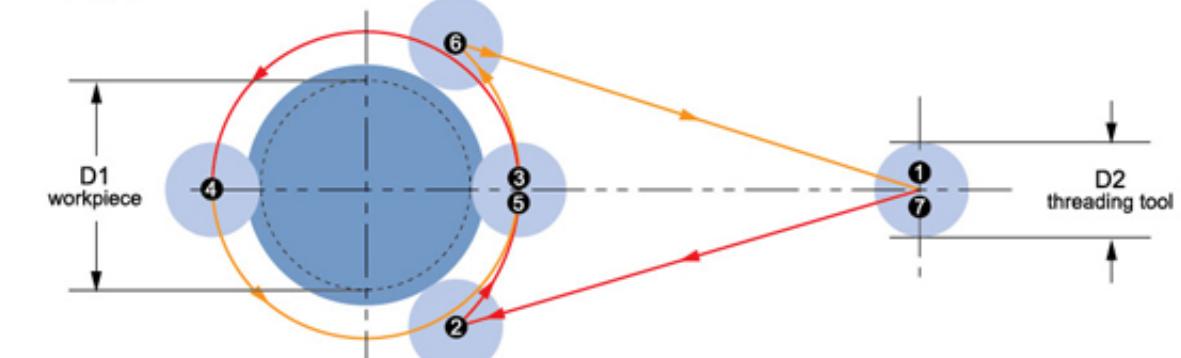
螺紋種類 (Thread Type)

公制螺紋 : (Metrix Thread) M.....	60°
英制統一螺紋 : (Unified Thread) UNC, UNF, UNEF, UN, UNS.....	60°
歐規惠式螺紋 : (Whit. Thread) W, BSF, BSW.....	55°
美規管用螺紋 : (National Pipe Thread) NPT, NPSM.....	60°
歐規管用螺紋 : (ISO Pipe Thread) PT(RcYR), PF(G), PS(Rp).....	55°
英制梯型螺紋 : TW, ACME, STUB.....	29°
公制梯型螺紋 : Tr, TM.....	30°
英制鋸型螺紋 : Buttress.....	7° / 45°
公制鋸型螺紋 : Buttress.....	3° / 30°

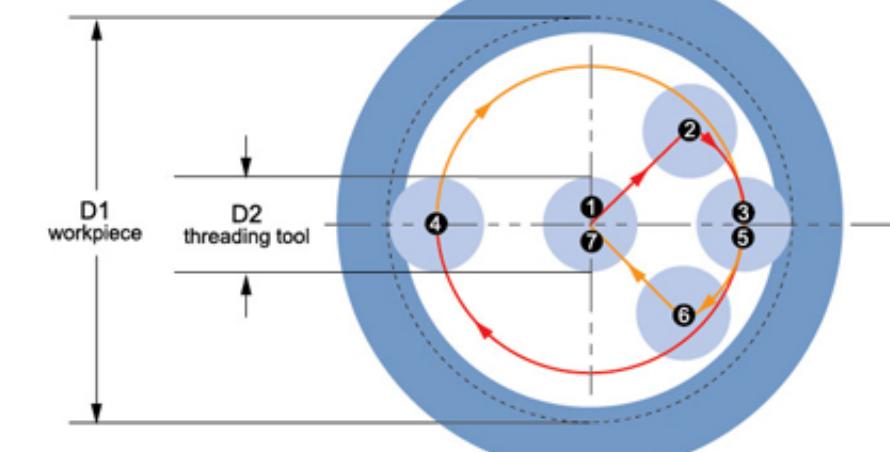
牙銑刀加工路徑-X-Y平面 (Thread Milling Path-X-Y Plane)

外螺紋、內螺紋加工之刀具路徑規畫依據加工件外型考量，分別如下圖所示 ①→②→③→④→⑤→⑥→⑦ 路徑次序產生。

外螺紋 External Thread



內螺紋 Internal Thread



使用要領如下 (User Tips)

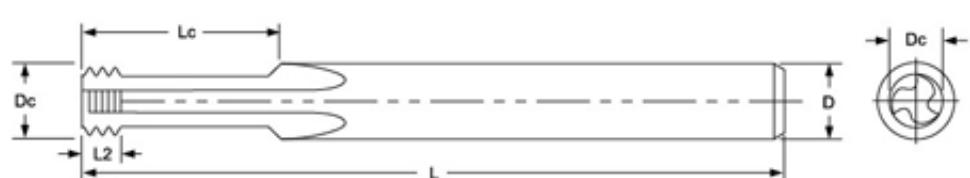
- 螺紋銑刀自轉速度須放快；公轉路徑速度須放慢。
- 易加工材質建議深切、緩進一刀完成；難加工材質建議淺切、緩進分多刀完成。
- Speed up rotation but slow down revolution of thread-milling cutter.
- Cut hard but slowly easy-to-process materials in one cycle, but cut lightly but slowly hard-to-process ones in multiple cycles.

規格標示 (Market)

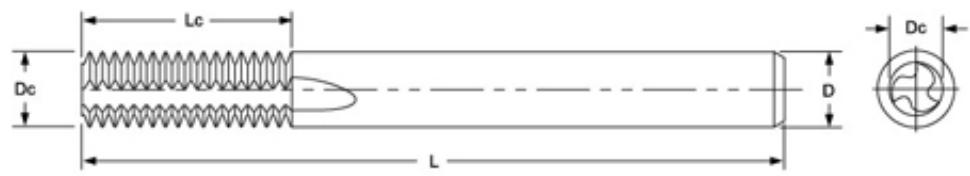
UG 10 10 75 23 M 1.0	牙距 / Pitch/ (P)
	螺紋標準 / Thread Standard
	刀長 / Cutter Length/ (Lc)
	總長 / Overall Length/ (L)
	柄徑 / Shunk Diameter/ (D)
	刃徑 / Cutter Diameter/ (Dc)
	品牌 / Brand

公制螺紋銑刀-直溝 / Metric Thread Mills - Straight Flutes

規格 Nominal Size	公稱直徑 N. D.	牙距 Pitch	下孔徑 Drill Size	刃徑 Dc	柄徑 D	總長 L	刃長 Lc	刀具型號 Ordering Code	型式 Type
M1.4*0.3	1.4	0.3	1.1	1	4	50	4	UG01045004M0.3	Cs L2=3P
M1.6*0.35	1.6	0.35	1.25	1.1	4	50	4	UG1.145004M0.35	
M2*0.4	2	0.4	1.6	1.5	4	50	5	UG1.5045005M0.4	
M2.5*0.45	2.5	0.45	2.05	1.9	4	50	6	UG1.9045006M0.45	
M3*0.5	3	0.5	2.5	2.3	4	50	7	UG2.3045007M0.5	
M3.5*0.6	3.5	0.6	2.9	2.7	4	50	8	UG2.7045008M0.6	
M4*0.7	4	0.7	3.3	3	4	50	10	UG03045010M0.7	
M4*0.5	4	0.5	3.5	3.3	4	50	10	UG3.3045010M0.5	
M5*0.8	5	0.8	4.2	4	4	50	12	UG04045012M0.8	
M5*0.5	5	0.5	4.5	4	4	50	12	UG04045012M0.5	
M6*1.0	6	1	5	4.6	6	60	15	UG4.6066015M1.0	
M6*0.75	6	0.75	5.25	4.8	6	60	15	UG4.6066015M0.75	
M6*0.5	6	0.5	5.5	5	6	60	15	UG05066015M0.5	
M8*1.25	8	1.25	6.75	6	6	60	16	UG06066016M1.25	
M8*1.0	8	1	7	6	6	60	16	UG06066016M1.0	
M8*0.75	8	0.75	7.25	6	6	60	16	UG06066016M0.75	
M8*0.5	8	0.5	7.5	6	6	60	16	UG06066016M0.5	
M10*1.5	10	1.5	8.5	7	8	75	20	UG07087520M1.5	
M10*1.5	10	1.5	8.5	8	8	75	20	UG08087520M1.5	
M10*1.25	10	1.25	8.75	8	8	75	20	UG08087520M1.25	
M10*1.0	10	1	9	8	8	75	20	UG08087520M1.0	
M10*0.75	10	0.75	9.25	8	8	75	20	UG08087520M0.75	
M12*1.75	12	1.75	10.25	9	10	75	23	UG09107523M1.75	
M12*1.5	12	1.5	10.5	9	10	75	23	UG09107523M1.5	
M12*1.25	12	1.25	10.75	9	10	75	23	UG09107523M1.25	
M12*1.0	12	1	11	10	10	75	23	UG10107523M1.0	
M12*0.75	12	0.75	11.25	10	10	75	23	UG10107523M0.75	
M14*2.0	14	2	12	10	10	75	25	UG10107523M2.0	
M14*1.5	14	1.5	12.5	10	10	75	25	UG10107523M1.5	
M14*1.25	14	1.25	12.75	10	10	75	25	UG10107523M1.25	



Metric M Thread - Cs Type, Cutter Length L2=3 Pitch



Metric M Thread - Cl Type

公制螺紋銑刀-直溝 / Metric Thread Mills - Straight Flutes

規格 Nominal Size	公稱直徑 N. D.	牙距 Pitch	下孔徑 Drill Size	刃徑 Dc	柄徑 D	總長 L	刃長 Lc	刀具型號 Ordering Code	型式 Type
M16*2.0	16	2	14	12	12	75	25	UG12127525M2.0	CL
M16*1.5	16	1.5	14.5	12	12	75	25	UG12127525M1.5	
M16*1.25	16	1.25	14.75	12	12	75	25	UG12127525M1.25	
M16*1.0	16	1	15	12	12	75	25	UG12127525M1.0	
M16*2.0	16	2	14	12	12	100	30	UG121210030M2.0	
M16*1.5	16	1.5	14.5	12	12	100	30	UG121210030M1.5	
M16*1.25	16	1.25	14.75	12	12	100	30	UG121210030M1.25	
M16*1.0	16	1	15	12	12	100	30	UG121210030M1.0	
M24*3.5	24	3.5	20.5	16	16	100	30	UG161610030M3.5	
M24*3.0	22	3	19	16	16	100	30	UG161610030M3.0	
M22*2.5	22	2.5	19.5	16	16	100	30	UG161610030M2.5	
M20*2.0	20	2	18	16	16	100	30	UG161610030M2.0	
M20*1.5	20	1.5	18.5	16	16	100	30	UG161610030M1.5	
M20*1.25	20	1.25	18.75	16	16	100	30	UG161610030M1.25	
M20*1.0	20	1	19	16	16	100	30	UG161610030M1.0	



Metric Thread - Cs Type, Cutter Length L2=3 Pitch



Metric Thread - Cl Type

相關螺紋規格繁多，上表未列舉規格可接受訂製!! (如外觀尺寸變更將依本公司提供之產品為主)

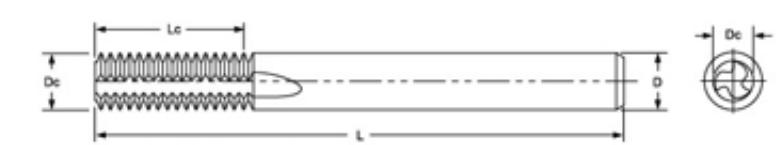
相關螺紋規格繁多，上表未列舉規格可接受訂製!! (如外觀尺寸變更將依本公司提供之產品為主)

規格 Nominal Size	公稱直徑 N. D.	牙數 TPI	牙距 Pitch	下孔徑 Drill Size	刃徑 Dc	柄徑 D	總長 L	刃長 Lc	刀具型號 Ordering Code	型式 Type
#0-80UNF	1.524	80	0.318	1.21	1.0	4	50	5	UG01045005U80	Cs L2=3P
#1-64UNC	1.854	64	0.397	1.46	1.3	4	50	5	UG1.3045005U64	
#1-72UNF	1.854	72	0.353	1.50	1.3	4	50	5	UG1.3045005U72	
#2-56UNC	2.184	56	0.454	1.73	1.6	4	50	6	UG1.6045006U56	
#2-64UNF	2.184	64	0.397	1.79	1.6	4	50	6	UG1.6045006U64	
#3-48UNC	2.515	48	0.529	1.99	1.8	4	50	8	UG1.8045008U48	
#3-56UNF	2.515	56	0.454	2.06	1.8	4	50	8	UG1.8045008U56	
#4-40UNC	2.845	40	0.635	2.21	2.0	4	50	8	UG02045008U40	
#4-48UNF	2.845	48	0.529	2.32	2.0	4	50	8	UG02045008U48	
#5-40UNC	3.175	40	0.635	2.54	2.3	4	50	8	UG2.3045008U40	
#5-44UNF	3.175	44	0.577	2.60	2.4	4	50	8	UG2.4045008U44	
#6-32UNC	3.505	32	0.794	2.71	2.4	4	50	8	UG2.4045008U32	
#6-40UNF	3.505	40	0.635	2.87	2.6	4	50	8	UG2.6045008U40	
#8-32UNC	4.166	32	0.794	3.37	3.0	4	50	10	UG03045010U32	
#8-36UNF	4.166	36	0.706	3.46	3.0	4	50	10	UG03045010U36	
#10-24UNC	4.826	24	1.058	3.77	3.5	4	50	12	UG3.5045012U24	
#10-32UNF	4.826	32	0.794	4.03	3.7	4	50	12	UG3.7045012U32	
#12-24UNC	5.486	24	1.058	4.43	4.0	4	50	12	UG04045012U24	
#12-28UNF	5.486	28	0.907	4.58	4.0	4	50	12	UG04045012U28	
#12-32UNEF	5.486	32	0.794	4.69	4.0	4	50	12	UG04045012U32	
1/4-20UNC	6.350	20	1.270	5.08	4.6	6	60	16	UG4.6066016U20	CL
1/4-28UNF	6.350	28	0.907	5.44	5.0	6	60	16	UG05066016U28	
1/4-32UNEF	6.350	32	0.794	5.56	5.0	6	60	16	UG05066016U32	
5/16-18UNC	7.938	18	1.411	6.53	6.0	6	60	16	UG06066016U18	
5/16-20UN	7.938	20	1.270	6.67	6.0	6	60	16	UG06066016U20	
5/16-24UNF	7.938	24	1.058	6.88	6.0	6	60	16	UG06066016U24	
5/16-27UNS	7.938	28	0.907	7.03	6.0	6	60	16	UG06066016U27	
5/16-28UN	7.938	28	0.907	7.03	6.0	6	60	16	UG06066016U28	
5/16-32UNEF	7.938	32	0.794	7.14	6.0	6	60	16	UG06066016U32	
3/8-16UNC	9.525	16	1.588	7.94	7	8	75	20	UG07087520U16	
3/8-24UNF	9.525	24	1.058	8.47	7	8	75	20	UG07087520U24	
3/8-32UNEF	9.525	32	0.794	8.73	7	8	75	20	UG07087520U32	
7/16-14UNC	11.113	14	1.814	9.30	8	8	75	23	UG08087523U14	CL
7/16-16UN	11.113	16	1.588	9.53	8	8	75	23	UG08087523U16	
7/16-18UN	11.113	18	1.411	9.70	8	8	75	23	UG08087523U18	
7/16-20UNF	11.113	20	1.270	9.84	8	8	75	23	UG08087523U20	
7/16-24UN	11.113	24	1.058	10.05	8	8	75	23	UG08087523U24	
7/16-27UNS	11.113	28	0.907	10.21	8	8	75	23	UG08087523U27	
7/16-28UNEF	11.113	28	0.907	10.21	8	8	75	23	UG08087523U28	
7/16-32UN	11.113	32	0.794	10.32	8	8	75	23	UG08087523U32	

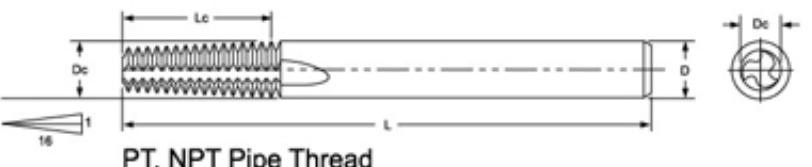
規格 Nominal Size	公稱直徑 N. D.	牙數 TPI	牙距 Pitch	下孔徑 Drill Size	刃徑 Dc	柄徑 D	總長 L	刃長 Lc	刀具型號 Ordering Code	型式 Type
1/2-13UNC	12.700	13	1.954	10.75	10	10	75	23	UG10107523U13	CL
1/2-16UN	12.700	16	1.588	11.11	10	10	75	23	UG10107523U16	
1/2-18UN	12.700	18	1.411	11.29	10	10	75	23	UG10107523U18	
1/2-20UNF	12.700	20	1.270	11.43	10	10	75	23	UG10107523U20	
1/2-24UN	12.700	24	1.058	11.64	10	10	75	23	UG10107523U24	
1/2-27UNS	12.700	27	0.941	11.76	10	10	75	23	UG10107523U27	
1/2-28UNEF	12.700	28	0.907	11.79	10	10	75	23	UG10107523U28	
1/2-32UN	12.700	32	0.794	11.91	10	10	75	23	UG10107523U32	
9/16-12UNC	14.288	12	2.117	12.17	10	10	75	23	UG10107523U12	
5/8-11UNC	15.875	11	2.309	13.57	12	12	75	25	UG12127525U11	
5/8-12UN	15.875	12	2.117	13.76	12	12	75	25	UG12127525U12	
5/8-14UNS	15.875	14	1.814	14.06	12	12	75	25	UG12127525U14	
5/8-16UN	15.875	16	1.588	14.29	12	12	75	25	UG12127525U16	
5/8-18UNF	15.875	18	1.411	14.46	12	12	75	25	UG12127525U18	
5/8-20UN	15.875	20	1.270	14.61	12	12	75	25	UG12127525U20	
5/8-24UNEF	15.875	24	1.058	14.82	12	12	75	25	UG12127525U24	
5/8-27UNS	15.875	27	0.941	14.93	12	12	75	25	UG12127525U27	
5/8-28UN	15.875	28	0.907	14.97	12	12	75	25	UG12127525U28	
5/8-32UN	15.875	32	0.794	15.08	12	12	75	25	UG12127525U32	
5/8-11UNC	15.875	11	2.309	13.57	12	12	100	30	UG121210030U11	
5/8-12UN	15.875	12	2.117	13.76	12	12	100	30	UG121210030U12	
5/8-14UNS	15.875	14	1.814	14.06	12	12	100	30	UG121210030U14	
3/4-10UNC	19.050	10	2.540	16.51	14	14	100	30	UG141410030U10	
7										

管用螺紋銑刀-直溝 / Pipe Thread Mills - Straight Flutes

規格 Nominal Size	公稱直徑 N. D.	牙數 TPI	下孔徑 Drill Size	刃徑 Dc	柄徑 D	總長 L	刃長 Lc	刀具型號 Ordering Code
G1/16-28	7.723	28	6.82	6	6	60	16	UG06066016G28
G1/8-28	9.728	28	8.82	8	8	75	20	UG08087520G28
G1/4-19	13.157	19	11.82	10	10	75	23	UG10107523G19
G3/8-19	16.662	19	15.33	12	12	75	25	UG12127525G19
G1/2-14	20.955	14	19.14	12	12	75	25	UG12127525G14
G3/4-14	26.441	14	24.63	16	16	100	30	UG161610030G14
G1-11	33.249	11	30.94	16	16	100	30	UG161610030G11
G1-11	33.249	11	30.94	20	20	100	30	UG202010030G11
PT1/16-28	7.723	28	6.82	6	6	60	16	UG06066016PT28
PT1/8-28	9.728	28	8.82	8	8	75	20	UG08087520PT28
PT1/4-19	13.157	19	11.82	10	10	75	23	UG10107523PT19
PT3/8-19	16.662	19	15.33	12	12	75	25	UG12127525PT19
PT1/2-14	20.955	14	19.14	12	12	75	25	UG12127525PT14
PT3/4-14	26.441	14	24.63	16	16	100	30	UG161610030PT14
PT1-11	33.249	11	30.94	16	16	100	30	UG161610030PT11
PT1-11	33.249	11	30.94	20	20	100	30	UG202010030PT11
NPSM1/16-27	7.894	27	6.95	6	6	60	16	UG06066016N27
NPSM1/8-27	10.242	27	9.30	8	8	75	20	UG08087520N27
NPSM1/4-18	13.616	18	12.20	10	10	75	23	UG10107523N18
NPSM3/8-18	17.055	18	15.64	12	12	75	25	UG12127525N18
NPSM1/2-14	21.224	14	19.41	12	12	75	25	UG12127525N14
NPSM3/4-14	26.569	14	24.75	16	16	100	30	UG161610030N14
NPSM1-11.5	33.228	11.5	31.02	16	16	100	30	UG161610030N11.5
NPSM1-11.5	33.228	11.5	31.02	20	20	100	30	UG202010030N11.5
NPT1/16-27	7.894	27	6.95	6	6	60	16	UG06066016NPT27
NPT1/8-27	10.242	27	9.30	8	8	75	20	UG08087520NPT27
NPT1/4-18	13.616	18	12.20	10	10	75	23	UG10107523NPT18
NPT3/8-18	17.055	18	15.64	12	12	75	25	UG12127525NPT18
NPT1/2-14	21.224	14	19.41	12	12	75	25	UG12127525NPT14
NPT3/4-14	26.569	14	24.75	16	16	100	30	UG161610030NPT14
NPT1-11.5	33.228	11.5	31.02	16	16	100	30	UG161610030NPT11.5
NPT1-11.5	33.228	11.5	31.02	20	20	100	30	UG202010030NPT11.5



G. NPSM Pipe Thread



PT. NPT Pipe Thread

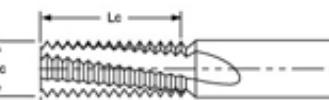
相關螺紋規格繁多，上表未列舉規格可接受訂製!! (如外觀尺寸變更將依本公司提供之產品為主)

公制螺紋銑刀-螺旋溝 / Metric Thread Mills - Spiral Flutes

規格 Nominal Size	公稱直徑 N. D.	牙距 Pitch	下孔徑 Drill Size	刃徑 Dc	柄徑 D	總長 L	刃長 Lc	刀具型號 Ordering Code	
M1.4*0.3	1.4	0.3	1.1	1	4	50	4	UG01045004M0.3	Cs L2=3P
M1.6*0.35	1.6	0.35	1.25	1.2	4	50	4	UG1.2045004M0.35	
M2*0.4	2	0.4	1.6	1.5	4	50	5	UG1.5045005M0.4	
M2.5*0.45	2.5	0.45	2.05	1.8	4	50	6	UG1.8045006M0.45	
M3*0.5	3	0.5	2.5	2.3	4	50	7	UG2.3045007M0.5	
M3.5*0.6	3.5	0.6	2.9	2.7	4	50	8	UG2.7045008M0.6	
M4*0.7	4	0.7	3.3	3	4	50	10	UG3045010M0.7	
M5*0.8	5	0.8	4.2	4	4	50	10	UG4045012M0.8	
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M6*0.75	6	0.75	5.25	4.6	6	60	12	UG4.6066015M0.75	CL
M6*1.0	6	1	5	4.6	6	60	12	UG4.6066015M1.0	
M8*1.0	8	1	7	6	6	60	16	UG5.5066015M1.0	
M8*0.75	8	0.75	7.25	6	6	60	16	UG06066016M0.75	
M8*1.25	8	1.25	6.75	6	6	60	16	UG06066016M1.25	
M8*1.0	8	1	7	6	6	60	16	UG06066016M1.0	
M10*1.5	10	1.5	8.5	8	8	75	20	UG07087520M1.5	
M10*1.25	10	1.25	8.75	8	8	75	20	UG07087520M1.25	
M10*1.0	10	1	9	8	8	75	20	UG07087520M1.0	CL
M10*0.75	10	0.75	9.25	8	8	75	20	UG07087520M0.75	
M12*1.75	12	1.75	10.25	8	8	75	23	UG08087523M1.75	
M12*1.5	12	1.5	10.5	8	8	75	23	UG08087523M1.5	
M12*1.25	12	1.25	10.75	8	8	75	20	UG08087520M1.25	
M12*1.0	12	1	11	8	8	75	20	UG08087520M1.0	
M12*0.75	12	0.75	11.25	8	8	75	20	UG08087520M0.75	
M12*1.75	12	1.75	10.25	9	10	75	23	UG09107523M1.75	
M14*2.0	14	2	12	10	10	75	23	UG10107525M2.0	
M14*1.5	14	1.5	12.5	10	10	75	23	UG10107525M1.5	CL
M14*1.25	14	1.25	12.75	10	10	75	23	UG10107525M1.25	
M14*1.0	14	1	13	10	10	75	23	UG10107525M1.0	
M16*2.0	16	2	14	12	12	100	25	UG121210030M2.0	
M16*1.5	16	1.5	14.5	12	12	100	25	UG121210030M1.5	
M16*1.25	16	1.25	14.75	12	12	100	25	UG121210025M1.25	
M16*1.0	16	1	15	12	12	100	25	UG121210025M1.0	
M20*3.0	20	3	17	16	16	100	30	UG161610030M3.0	CL
M20*2.5	20	2.5	17.5	16	16	100	30	UG161610030M2.5	
M20*2.0	20	2	18	16	16	100	30	UG161610030M2.0	
M20*1.5	20	1.5	18.5	16	16	100	30	UG161610030M1.5	
M24*3.0	24	3	21	20	20	100	30	UG202010030M3.0	
M27*3.5	27	3.5	23.5	20	20	100	30	UG202010030M3.5	
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規格 Nominal Size	公稱直徑 N. D.	牙數 TPI	牙距 Pitch	下孔徑 Drill Size	刃徑 Dc	柄徑 D	總長 L	刃長 Lc	刀具型號 Ordering Code	型式 Type
#0-80	1.524	80	0.318	1.21	1.0	4	50	5	UG01045005U80	
#1-64UNC	1.854	64	0.397	1.46	1.3	4	50	5	UG1.3045005U64	
#1-72UNF	1.854	72	0.353	1.50	1.3	4	50	5	UG1.3045005U72	
#2-56UNC	2.184	56	0.454	1.73	1.6	4	50	6	UG1.6045006U56	
#2-64UNF	2.184	64	0.397	1.79	1.6	4	50	6	UG1.6045006U64	
#3-48UNC	2.515	48	0.529	1.99	1.8	4	50	8	UG1.8045008U48	
#3-56UNF	2.515	56	0.454	2.06	1.8	4	50	8	UG1.8045008U56	
#4-40UNC	2.845	40	0.635	2.21	2.0	4	50	8	UG2.02045008U40	
#4-48UNF	2.845	48	0.529	2.32	2.1	4	50	8	UG2.1045008U48	
#5-40UNC	3.175	40	0.635	2.54	2.3	4	50	8	UG2.3045008U40	
#5-44UNF	3.175	44	0.577	2.60	2.4	4	50	8	UG2.4045008U44	
#6-32UNC	3.505	32	0.794	2.71	2.5	4	50	8	UG2.5045008U32	
#6-40UNF	3.505	40	0.635	2.87	2.6	4	50	8	UG2.6045008U40	
#8-32UNC	4.166	32	0.794	3.37	3.0	4	50	10	UG03045010U32	
#8-36UNF	4.166	36	0.706	3.46	3.0	4	50	10	UG03045010U36	
#10-24UNC	4.826	24	1.058	3.77	3.4	4	50	12	UG3.4045012U24	
#10-32UNF	4.826	32	0.794	4.03	3.6	4	50	12	UG3.6045012U32	
#12-24UNC	5.486	24	1.058	4.43	4.0	4	50	12	UG04045012U24	
#12-28UNF	5.486	28	0.907	4.58	4.0	4	50	12	UG04045012U28	
#12-32UNEF	5.486	32	0.794	4.69	4.0	4	50	12	UG04045012U32	
1/4-20UNC	6.350	20	1.270	5.08	4.6	6	60	16	UG4.6066016U20	
1/4-28UNF	6.350	28	0.907	5.44	4.6	6	60	16	UG4.6066016U28	
1/4-32UNEF	6.350	32	0.794	5.56	4.6	6	60	16	UG4.6066016U32	
5/16-18UNC	7.938	18	1.411	6.53	6.0	6	60	16	UG06066016U18	
5/16-24UNF	7.938	24	1.058	6.88	6.0	6	60	16	UG06066016U24	
5/16-32UNEF	7.938	32	0.794	7.14	6.0	6	60	16	UG06066016U32	
3/8-16UNC	9.525	16	1.588	7.94	7	8	75	23	UG07087523U16	
3/8-24UNF	9.525	24	1.058	8.47	7	8	75	23	UG07087523U24	
3/8-32UNEF	9.525	32	0.794	8.73	7	8	75	23	UG08087523U32	
7/16-14UNC	11.113	14	1.814	9.30	8	8	75	23	UG08087523U14	
7/16-20UNF	11.113	20	1.270	9.84	8	8	75	23	UG08087523U20	
7/16-28UNEF	11.113	28	0.907	10.21	8	8	75	23	UG08087523U28	
1/2-13UNC	12.700	13	1.954	10.75	9	10	75	23	UG09107523U13	
1/2-20UNF	12.700	20	1.270	11.43	10	10	75	23	UG10107523U20	
1/2-28UNEF	12.700	28	0.907	11.79	10	10	75	23	UG10107523U28	
9/16-12UNC	14.288	12	2.117	12.17	10	10	75	23	UG10107523U12	
9/16-18UNF	14.288	18	1.411	12.88	10	10	75	23	UG10107523U18	
9/16-24UNEF	14.288	24	1.058	13.23	10	10	75	23	UG10107523U24	
5/8-11UNC	15.875	11	2.309	13.57	12	12	100	30	UG121210030U11	
5/8-18UNF	15.875	18	1.411	14.46	12	12	100	30	UG121210030U18	
5/8-24UNEF	15.875	24	1.058	14.82	12	12	100	30	UG121210025U24	
3/4-10UNC	19.050	10	2.540	16.51	14	14	100	30	UG141410030U10	
3/4-16UNF	19.050	16	1.588	17.46	14	14	100	30	UG141410030U16	
3/4-20UNEF	19.050	20	1.270	17.78	14	14	100	30	UG141410025U20	
7/8-9UNC	22.225	9	2.822	19.40	16	16	100	30	UG161610030U9	
7/8-14UNF	22.225	14	1.814	20.41	16	16	100	30	UG161610030U14	
7/8-20UNEF	22.225	20	1.270	20.96	16	16	100	30	UG161610025U20	
1"-8UNC	25.400	8	3.175	22.23	16	16	100	30	UG161610030U8	
1"-12UNF	25.400	12	2.117	23.28	16	16	100	30	UG161610030U12	
1"-20UNEF	25.400	20	1.270	24.13	16	16	100	30	UG161610025U20	

Unified Thread - Cs Type, Cutter Length L2=3 Pitch


Unified Thread - Lc Type


Cs

CL

規格 Nominal Size	公稱直徑 N. D.	牙數 TPI	牙距 Pitch	下孔徑 Drill Size	刃徑 Dc	柄徑 D	總長 L	刃長 Lc	刀具型號 Ordering Code	型式 Type
G1/16-28	7.723	28		6.82	6	6	60	12	UG06066012G28	
G1/8-28	9.728	28		8.82	7	8	75	16	UG07087516G28	
G1/4-19	13.157	19		11.82	10	10	75	20	UG10107520G19	
G3/8-19	16.662	19		15.33	12	12	100	25	UG121210025G19	
G1/2-14	20.955	14		19.14	12	12	100	25	UG121210025G14	
G3/4-14	26.441	14		24.63	16	16	100	30	UG161610030G14	
G1-11	33.249	11		30.94	16	16	100	30	UG161610030G11	
G1-11	33.249	11		30.94	20	20	100	30	UG202010030G11	
PT1/16-28	7.723	28		6.82	6	6	60	12	UG06066012PT28	
PT1/8-28	9.728	28		8.82	7	8	75	16	UG07087516PT28	
PT1/4-19	13.157	19		11.82	10	10	75	20	UG10107520PT19	
PT3/8-19	16.662	19		15.33	12	12	100	25	UG121210025PT19	
PT1/2-14	20.955	14		19.14	12	12	100	25	UG121210025PT14	
PT3/4-14	26.441	14		24.63	16	16	100	30	UG161610030PT14	
PT1-11	33.249	1								