



有峻精密工具有限公司  
UGMIC INDUSTRIAL Co., Ltd.



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2016-10

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 綜合型錄

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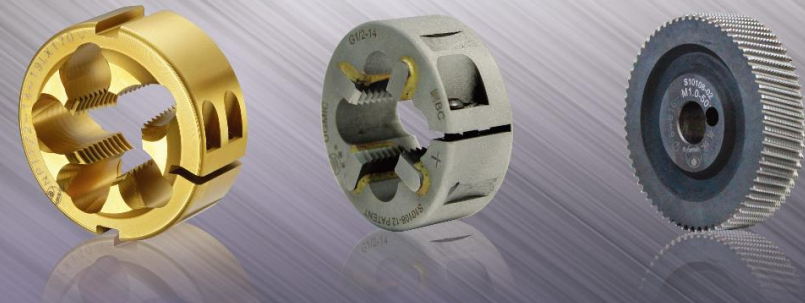
## 公司簡介

有峻精密工具有限公司，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、鎢鋼九駒、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：給水閘門、瓦斯閘門、氣嘴閘門、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零件五金、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。



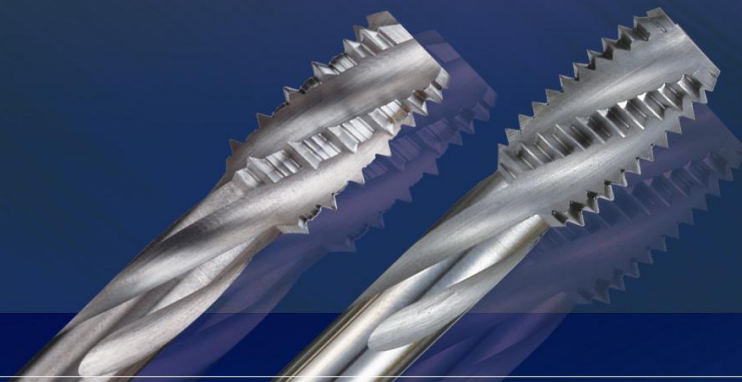
## Company Profile

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)



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



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 全鎢鋼無屑(擠壓)絲攻  
Solid Carbide Tap Spiral & Interrupted Flute Welded Carbide Tap Spiral & Interrupted Flute 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 Form 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：

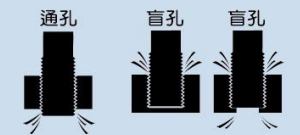
通孔 盲孔 短屑 長屑 右螺旋 左螺旋 C=2P C=4P C=5P

Straight Flute Pointed Flute Spiral Flute Fluteless Full Carbide Welded Carbide

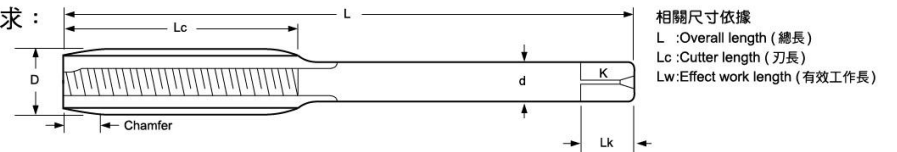
直溝 先端溝 螺旋溝 無溝 全鎢鋼 焊鎢鋼

HSS-CO SKH55 M35 HSS-CO SKH59 M42 Coated TiN Coated TiCN Coated TiAlN 鈦鋼 鈦鎢 氮化鈦 碳氮化鈦 鋁鈦

## 通盲孔圖示：



## 訂購需求：





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:

- 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).
- 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).
- 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).
- 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.
- 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.
- 絲錐等刀具問題，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.

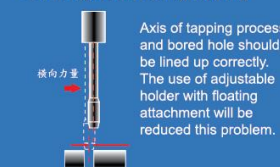
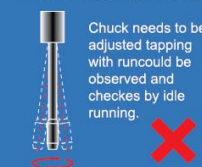
超硬鎢鋼螺絲攻使用建議事項：

- 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



Over-cutting at radial direction.

● Inclined hole/Cutting at inclined hole



## 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, 鑄鐵, 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≤D≤160 0.8≤P≤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≤D≤160 0.8≤P≤3.0
直溝 Straight	BC	黃銅, Brass	III	通孔/盲孔 Through/Blind	粉狀屑/短屑 Powdery/short	8≤D≤160 0.8≤P≤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≤D≤160 0.8≤P≤2.5
		鋁合金(6061-T6, ADC), 鋁 Aluminum Alloy(6061-T6, ADC)	II/III	通孔/盲孔 Through/Blind	粉狀屑/短屑 Powdery/short	8≤D≤160 0.8≤P≤3.0
直溝 Straight	CHRP	紅銅管, Copper Pipe	II	通孔 Through	長屑 longer chip	8≤D≤160 0.8≤P≤3.0
		鋁, 鐵, Aluminum(AC), Iron	II/III	通孔/盲孔 Through/Blind	粉狀屑/短屑 Powdery/short	8≤D≤160 0.8≤P≤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≤D≤6 0.5≤P≤1.0
		鑄鐵, 電木, 無鉛青銅, 黃銅, 鋅, 鋁 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≤D≤6 0.5≤P≤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	0.5≤P≤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, 鑄鐵, 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≤D≤60 0.8≤P≤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≤D≤60 0.8≤P≤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≤D≤60 1.0≤P≤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≤D≤6 0.5≤P≤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≤D≤6 0.5≤P≤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≤D≤20 0.35≤P≤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≤D≤20 0.35≤P≤2.0

### 會銹高速鋼螺旋絲攻 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≤D≤60 1.0≤P≤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 <sub>2</sub> M4 P <sub>2</sub> 0.7	2P~5P	通孔/盲孔 Through/Blind	短屑 /short
	● 鎢鋼直溝絲攻 Carbide Straight Flute Taps	A	D <sub>2</sub> M8, P <sub>2</sub> 2.0	2P	通孔/盲孔 Through/Blind	長屑 longer chip
塑膠+纖維, Plastic+fiber,	● 鎢鋼螺旋溝絲攻 Carbide Spiral Flute Taps	AO	D <sub>5</sub> M6, P <sub>5</sub> 1.0	2P~3P	通孔/盲孔 Through/Blind	短屑/長屑 Short/Longer
	● 鎢鋼螺旋溝絲攻 Carbide Spiral Flute Taps	A	5≤D≤60, 0.5≤P≤2.0			
鑄鐵, Cast Iron, (FC/FCD) 電木, Bakelite, 無鉛青銅 No lead Bronze	● 鎢鋼直溝絲攻 Carbide Straight Flute Taps	OC	3≤D≤6, 0.5≤P≤2.0	2P	通孔/盲孔 Through/Blind	短屑 /short
	● 鎢鋼直溝絲攻 Carbide Straight Flute Taps	A	D <sub>2</sub> M8, P <sub>2</sub> 2.0			
黃銅, Brass	● 鎢鋼直溝絲攻 Carbide Straight Flute Taps	BC/C	D <sub>2</sub> M8, P <sub>2</sub> 2.0	2P	通孔/盲孔 Through/Blind	短屑 /short
	● 鎢鋼直溝絲攻 Carbide Straight Flute Taps	O	D <sub>5</sub> M6, P <sub>5</sub> 1.0			
鋁合金(6061-T6, ADC) Aluminum Alloy(6061-T6, ADC) 軟鋼/鐵, Soft steel/ Iron 鈦合金 Titanium Alloy	○ 鎢鋼直溝絲攻 Carbide Straight Flute Taps	CR	D <sub>2</sub> M8, P <sub>2</sub> 2.0	2P~5P	通孔 Through	短屑 /short
	○ 鎢鋼直溝絲攻 Carbide Straight Flute Taps	O	D <sub>5</sub> M6, P <sub>5</sub> 1.0			
	● 鎢鋼螺旋溝絲攻 Carbide Spiral Flute Taps	C	5≤D≤60, 0.5≤P≤2.0	2P~3P	通孔/盲孔 Through/Blind	短屑/長屑 Short/Longer
	● 鎢鋼螺旋溝絲攻 Carbide Spiral Flute Taps	OC	3≤D≤6, 0.5≤P≤2.0			
● 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) 紅銅管, Copper Pipe	○ 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
	● 鎢鋼螺旋溝絲攻 Carbide Spiral Flute Taps	C	5≤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	● 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
	○ 鎢鋼直溝絲攻 Carbide Straight Flute Taps	CR	5≤D≤60, 0.75≤P≤1.5	4~5P	通孔 Through	長屑 longer chip
工具鋼, Tool Steel 不鏽鋼, Stainless Steel	○ 鎢鋼螺旋溝絲攻 Carbide Spiral Flute Taps	C	5≤D≤60, 0.75≤P≤1.5	2P~3P	通孔/盲孔 Through/Blind	長屑 longer chip
	● 含鈦高速鋼螺旋溝絲攻 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
● 鎢鋼無溝絲攻 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

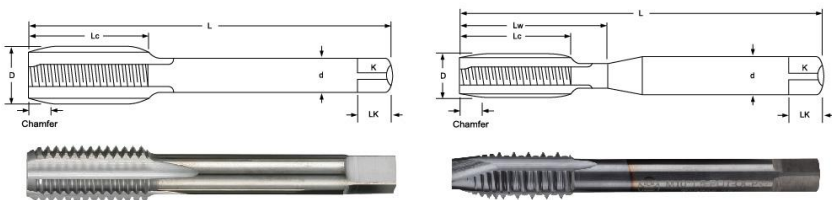
公稱螺紋	螺紋標準 (Thread Standard)						柄部標準JIS				柄部標準DIN		銑刀柄	側圓柄	
	代號	牙型	牙型	牙型	牙型	牙型	柄徑 mm	四方頭	柄徑 mm	四方頭	柄徑 mm	四方頭	柄徑 mm	柄徑 mm	
公制螺紋	M	60	0	英規惠氏粗螺紋	BSW	55	0	3.0	2.5*5	22.0	17*20	2.0		6	6
統一螺紋粗牙	UNC	60	0	英規惠氏細螺紋	BSF	55	0	4.0	3.2*6	23.0	17*20	2.5	2.1	8	8
統一螺紋細牙	UNF	60	0	惠氏螺紋	W	55	0	5.0	4*7	24.0	19*22	2.8	2.1	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	2.7	12	12
美規平行管螺紋	NPSM	60	0	歐規平行管螺紋	PS	55	0	6.0	4.5*7	26.0	21*24	4.0	3.0	16	14
美規乾封平行螺紋	NPSF	60	0	歐規細度管螺紋	PT	55	1/16	6.1	5*8	28.0	21*24	4.5	3.4	20	16
美規平行管螺紋	NPSL	60	0					6.2	5*8	30.0	23*26	6.0	4.9	25	18
美規消防平行管螺紋	NPSH	60	0					7.0	5.5*8	32.0	26*30	7.0	5.5	32	20
美規平行管螺紋	NPSI	60	0	ISO平行管螺紋	G	55	0	8.0	6*9	35.0	26*30	8.0	6.2		25
美規平行管螺紋	NPSK	60	0	ISO平行管螺紋	Rp	55	0	8.5	6.5*9	38.0	29*32	9.0	7.0		32
美規防銹度管螺紋	NH	60	0	ISO細度管螺紋	Rc	55	1/16	9.0	7*10	40.0	32*35	10.0	8.0		
美規細度管螺紋	NPT	60	1/16	ISO細度管螺紋	R	55	1/16					11.0	9.0	銑刀柄	側圓柄
美規乾封細螺紋	NPTF	60	1/16					10.5	8*11			12.0	9.0	柄徑 mm	柄徑 mm
美規乾封短螺紋	PTF	60	1/16	公制梯形螺紋	Tr	30	0	11.0	9*12			14.0	11.0	柄徑 mm	柄徑 mm
美規瓦斯維度螺紋	NGT	60	1/16	舊公制梯形螺紋	TM	30	0	12.0	9*12			16.0	12.0	1/2	1/2
美規瓦斯平行螺紋	NGO	60	0	艾克姆螺紋	ACME	29	0	12.5	10*13			18.0	14.5	9/16	9/16
特殊瓦斯維度螺紋	SGT	60	1/8	淺艾克姆螺紋	STUB	29	0	14.0	11*14			20.0	16.0	7/8	7/8
				英制梯形螺紋	TW	29	0	15.0	12*15			22.0	18.0	1"	1"
日規氣嘴螺紋	CTV	60	0	英制鋸齒型螺紋	BUTT	52	0					25.0	20.0	1,1/4	1,1/4
日規氣嘴螺紋	TV	60	0	公制鋸齒型螺紋	BUTT	33	0	17.0	13*16			28.0	22.0		
歐規氣嘴螺紋	V	60	0	鐵管螺紋	Pg	80	0	18.0	14*17			32.0	24.0		
針車螺紋	SM	60	0					19.0	15*18			36.0	29.0		
英規自行車螺紋	BSC	60	0					20.0	15*18			40.0	32.0		
日規自行車螺紋	BC	60	0												

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：□鍍鈦 □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/OA/O
M3.5*0.6	50	12		4	3.2	6	6H	III=2P/II=5P	A/OA/O
M4*0.7	50	12		5	4	7	6H	III=2P/II=5P	A/OA/O
M4.5*0.75	50	12		5	4	7	6H	III=2P/II=5P	A/OA/O
M5*0.8	60	16		5.5	4.5	7	6H	III=2P/II=5P	A/OA/O
M6*1.0	60	16		6	4.5	7	6H	III=2P/II=5P	A/OA/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/OA/O
MF5*0.5	60	12		5.5	4.5	7	6H	III=2P/II=5P	A/OA/O
MF6*0.5	60	12		6	4.5	7	6H	III=2P/II=5P	A/OA/O
MF6*0.75	60	16		6	4.5	7	6H	III=2P/II=5P	A/OA/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)	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/OA/O
#8-32UNC	50	12		5	4	7	2B	III=2P/II=5P	A/OA/O
#10-24UNC	60	16		5.5	4.5	7	2B	III=2P/II=5P	A/OA/O
#12-24UNC	60	16		5.5	4.5	7	2B	III=2P/II=5P	A/OA/O
1/4-20UNC	60	16		6	4.5	7	2B	III=2P/II=5P	A/OA/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/OA/O
#8-36UNF	50	12		5	4	7	2B	III=2P/II=5P	A/OA/O
#10-32UNF	60	16		5.5	4.5	7	2B	III=2P/II=5P	A/OA/O
#12-28UNF	60	16		5.5	4.5	7	2B	III=2P/II=5P	A/OA/O
1/4-28UNF	60	16		6	4.5	7	2B	III=2P/II=5P	A/OA/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	75	23		10.5	8	11	2B	III=2P/II=5P	A/B/C/CH
5/8-18UNF	75	23		12	9	12	2B	III=2P/II=5P	A/B/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)	邊長 (Lk)			
#12-32UNEF	60	16		5.5	4.5	7	2B	III=2P/II=5P	A/OA/O
1/4-32UNEF	60	16		6	4.5	7	2B	III=2P/II=5P	A/OA/O
5/16-32UNEF	70	20		6.1	5	8	2B	III=2P/II=5P	A/B/C/CH
3/8-32UNEF	75	23		7	5.5	8	2B	III=2P/II=5P	A/B/C/CH
7/16-28UNEF	75	23		8	6	9	2B	III=2P/II=5P	A/B/C/CH
1/2-28UNEF	75	23		9	7	10	2B	III=2P/II=5P	A/B/C/CH
9/16-24UNEF	75	23		10.5	8	11	2B	III=2P/II=5P	A/B/C/CH
5/8-24UNEF	75	23		12	9	12	2B	III=2P/II=5P	A/B/C/CH

全鎢鋼絲攻-直溝型 & 跳牙直溝型 -JIS柄 (JIS Shank)  
 Solid Carbide Taps - Straight Flutes & Interrupted Flutes



全鎢鋼絲攻-直溝型 & 跳牙直溝型 -JIS柄 (JIS Shank)  
 Solid Carbide Taps - Straight Flutes & Interrupted Flutes

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)

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)

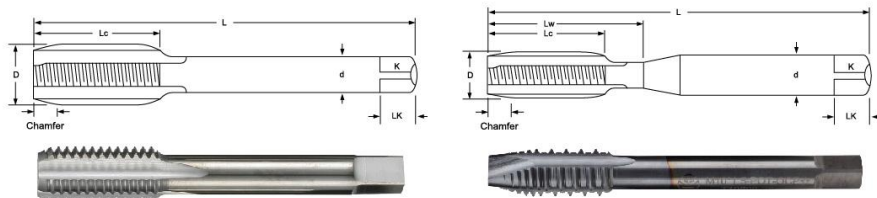
全鎢鋼絲攻-直溝先端型 & 跳牙直溝先端型 -JIS柄 (JIS Shank)  
 Solid Carbide Taps - Straight Pointed Flutes & Interrupted Straight Pointed Flutes

全鎢鋼絲攻-直溝先端型 & 跳牙直溝先端型 -JIS柄 (JIS Shank)  
 Solid Carbide Taps - Straight Pointed Flutes & Interrupted Straight Pointed Flutes

選用：□鍍鈦 □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

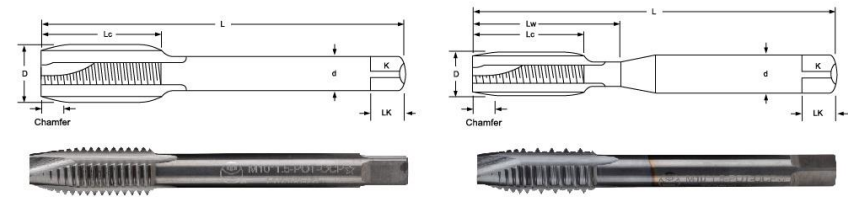
管用推拔牙規格 Pipe Taper Thread PT(Rc)&NPT&NPTF&PTF	形狀 Shape				四方柄 Square		精度 Class	無效牙長 倒角 Chamfer Length	備註 Remarks
	總長(L)	刃長(Lc)	工作長(Lw)	柄徑(d)	對邊(k)	邊長(Lk)			
NPT1/16-27	60	16		8	6	9	ANSI	III=2P/II=5P	A/B/C/CH
NPT1/8-27	60	16		8	6	9	ANSI	III=2P/II=5P	A/B/C/CH
NPT1/4-18	75	23		11	9	12	ANSI	III=2P/II=5P	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



選用：□鍍鈦 □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	5	6H	II=5P	OA
M3*0.5	50	10		4	3.2	6	6H	II=5P	OA
M3.5*0.6	50	12		4	3.2	6	6H	II=5P	OA
M4*0.7	50	12		5	4	7	6H	II=5P	OA
M4.5*0.75	50	12		5	4	7	6H	II=5P	OA
M5*0.8	60	16		5.5	4.5	7	6H	II=5P	OA
M6*1.0	60	16		6	4.5	7	6H	II=5P	OA
M8*1.25	70	20		6.2	5	8	6H	II=5P	OA
M10*1.5	75	23		7	5.5	8	6H	II=5P	OA
M12*1.75	75	23		8.5	6.5	9	6H	II=5P	OA
M14*2.0	75	23		10.5	8	11	6H	II=5P	C/CH
M16*2.0	75	23		12.5	10	13	6H	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	7	6H	II=5P	OA
MF5*0.5	60	12		5.5	4.5	7	6H	II=5P	OA
MF6*0.5	60	12		6	4.5	7	6H	II=5P	OA
MF6*0.75	60	16		6	4.5	7	6H	II=5P	OA
MF8*0.75	70	16		6.2	5	8	6H	II=5P	OA
MF8*1.0	70	20		6.2	5	8	6H	II=5P	OA
MF10*0.75	75	23		7	5.5	8	6H	II=5P	OA
MF10*1.0	75	23		7	5.5	8	6H	II=5P	OA
MF10*1.25	75	23		7	5.5	8	6H	II=5P	OA
MF12*1.0	75	23		8.5	6.5	9	6H	II=5P	OA
MF12*1.25	75	23		8.5	6.5	9	6H	II=5P	OA
MF12*1.5	75	23		8.5	6.5	9	6H	II=5P	OA
MF14*1.0	75	23		10.5	8	11	6H	II=5P	C/CH
MF14*1.25	75	23		10.5	8	11	6H	II=5P	C/CH
MF14*1.5	75	23		10.5	8	11	6H	II=5P	C/CH
MF16*1.0	75	23		12.5	10	13	6H	II=5P	C/CH
MF16*1.5	75	23		12.5	10	13	6H	II=5P	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)	邊長(Lk)			
#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)	邊長(Lk)			
#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)	邊長(Lk)			
#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/統一螺紋-JIS方頭圓柄  
 跳牙焊接鎢鋼直溝絲攻-公制螺紋/統一螺紋-JIS方頭圓柄  
 Welded Carbide Taps -Straight Flutes-Metric Thread/Unified Thread (JIS Shank)  
 Interrupted Welded Carbide Taps -Straight Flutes-Metric Thread/Unified Thread (JIS Shank)

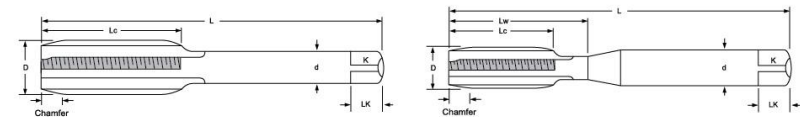
選用：□鍍鈦 □跳牙 Selection：□Coated □Interrupted

公制螺紋 M Metric Thread		形狀 Shape				四方柄 Square		無效牙長 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	2P	A/B/C/CH
M14	1.25	85	18		10.5	8	11	2P	A/B/C/CH
M16	1.5	85	18		10.5	8	11	2P	A/B/C/CH
M18	1.0	100	18		12.5	10	13	2P	A/B/C/CH
M20	1.25	100	18		14	11	14	2P	A/B/C/CH
M21	1.5	100	18		14	11	14	2P	A/B/C/CH
M22	2.0	100	18		15	12	15	2P	A/B/C/CH
M24	1.0	100	22		15	12	15	2P	A/B/C/CH
M25	1.25	100	22		17	13	16	2P	A/B/C/CH
M26	1.5	100	22		19	15	18	2P	A/B/C/CH
M27	2.0	110	22		20	15	18	2P	A/B/C/CH
M28	1.0	110	22		20	15	18	2P	A/B/C/CH
M29	1.25	110	22		22	17	20	2P	A/B/C/CH
M30	1.5	110	22		23	17	20	2P	A/B/C/CH
M32	2.0	110	22		24	19	22	2P	A/B/C/CH
M33	1.0	110	22		25	19	22	2P	A/B/C/CH
M34	1.25	110	22		26	21	24	2P	A/B/C/CH
M35	1.5	110	22		26	21	24	2P	A/B/C/CH

焊接鎢鋼直刃-統一螺紋-JIS方頭圓柄  
 跳牙焊接鎢鋼直刃-統一螺紋-JIS方頭圓柄  
 Welded Carbide Taps -Straight Flutes-Unified Thread (JIS Shank)  
 Interrupted Welded Carbide Taps -Straight 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 倒角 Chamfer Length	備註 Remarks	
外徑 (O.D.)	公稱外徑 Nominal diameter	牙距 (Pitch)	總長(L)	刃長(Lc)	工作長(Lw)	柄徑(d)	對邊(k)			邊長(Lk)
12.70	1/2"	U18/U20	85	18/35		10.5	8	11	2P	A/B/C/CH
14.29	9/16"	U24/U27	85	18/35		10.5	8	11	2P	A/B/C/CH
15.88	5/8"	U14/U16	100	18/35		12.5	10	13	2P	A/B/C/CH
17.46	11/16"	U18/U20	100	18/35		14	11	14	2P	A/B/C/CH
19.05	3/4"	U24/U27	100	18/35		14	11	14	2P	A/B/C/CH
20.64	13/16"	U12/U14	100	18/35		15	12	15	2P	A/B/C/CH
22.23	7/8"	U16/U18	100	18/35		17	13	16	2P	A/B/C/CH
23.81	15/16"	U20/U24	100	18/35		19	15	18	2P	A/B/C/CH
25.40	1"	U27	110	18/35		20	15	18	2P	A/B/C/CH
26.99	1,1/16"		110	22/40		20	15	18	2P	A/B/C/CH
28.58	1,1/8"		110	22/40		22	17	20	2P	A/B/C/CH
30.16	1,3/16"		110	22/40		23	17	20	2P	A/B/C/CH
31.75	1,1/4"	U12/U14	110	22/40		24	19	22	2P	A/B/C/CH
33.34	1,5/16"	U16/U18	110	22/40		25	19	22	2P	A/B/C/CH
34.93	1,3/8"	U20/U24	110	22/40		26	21	24	2P	A/B/C/CH
36.51	1,7/16"		110	28/40		28	21	24	2P	A/B/C/CH
38.10	1,1/2"		110	28/40		30	23	26	2P	A/B/C/CH



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

全鎢鋼直溝先端絲攻-統一螺紋-JIS方頭圓柄  
 Solid Carbide Taps - Straight Pointed Flutes & Interrupted Flutes

焊接鎢鋼直溝絲攻-公制螺紋/統一螺紋-JIS方頭圓柄  
 Welded Carbide Taps - Straight Flutes & Interrupted Flutes

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)

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)

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 & Interrupted Flutes

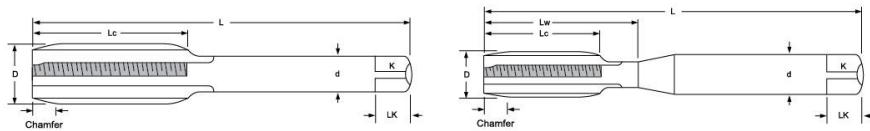
焊接鎢鋼直溝絲攻-平行/錐度管用螺紋-JIS方頭圓柄  
 Welded Carbide Taps - Straight Flutes & Interrupted Flutes

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)	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

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)	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

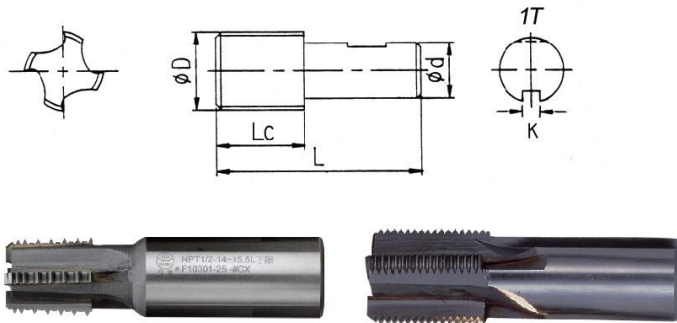


相關螺紋規格繁多，上表未列舉規格可接受訂製!! (如外觀尺寸變更將依本公司提供之產品為主)

焊接鎢鋼直溝絲攻-公制螺紋/統一螺紋-側固柄  
 跳牙焊接鎢鋼直溝絲攻-公制螺紋/統一螺紋-側固柄  
 Welded Carbide Taps -Straight Flutes-Metric Thread/Unified Thread (Side Set Shank)  
 Interrupted Welded Carbide Taps -Straight Flutes-Metric Thread/Unified Thread (Side Set Shank)

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

公制螺紋 M Metric Thread		形 狀 Shape			側固柄		刃數 N Flutes	精度	無效牙長 倒 角 Chamfer Length	備註 Remarks
外徑(O.D.)	牙距(Pitch)	總長(L)	刀長(Lc)	柄徑(d)	側固式 fix type	鍵槽寬 Key width				
9/16	27/24/20/18/16/14	85	18	22.22	1T	6.35	4	2B	2P	A/B/C/CH
5/8	27/24/20/18/16	85	18	22.22	1T	6.35	4	2B	2P	A/B/C/CH
11/16	27/24/20/18/16	85	18	22.22	1T	6.35	4	2B	2P	A/B/C/CH
3/4	24/20/18/16/14/12	85	23	22.22	1T	6.35	4	2B	2P	A/B/C/CH
13/16	24/20/18/16/14	85	23	22.22	1T	6.35	4	2B	2P	A/B/C/CH
7/8	24/18/16/14/12	85	23	22.22	1T	6.35	4	2B	2P	A/B/C/CH
15/16	27/24/18/16/14/12	85	23	22.22	1T	6.35	4	2B	2P	A/B/C/CH
1"	24/18/16/14/12	85	23	22.22	1T	6.35	4	2B	2P	A/B/C/CH
1,1/16	24/20//1816/14/12	85	23	22.22	1T	6.35	4	2B	2P	A/B/C/CH
1,1/8	24/20//1816/14/12	85	23	22.22	1T	6.35	4	2B	2P	A/B/C/CH
1,3/16	24/20/18/16/14/12	85	23	22.22	1T	6.35	4	2B	2P	A/B/C/CH
1,1/4	24/20/18/16/14/12	85	23	22.22	1T	6.35	4	2B	2P	A/B/C/CH
1,5/16	24/20/18/16/14/12	85	23	22.22	1T	6.35	4	2B	2P	A/B/C/CH
1,3/8	24/20/18/16/14/12	85	23	22.22	1T	6.35	6	2B	2P	A/B/C/CH
1,7/16	24/20/18/16/14/12	95	30	22.22	1T	6.35	6	2B	2P	A/B/C/CH
1,1/2	24/20/18/16/14/12	95	30	22.22	1T	6.35	6	2B	2P	A/B/C/CH
1,9/16	24/20/18/16/14/12	95	30	22.22	1T	6.35	6	2B	2P	A/B/C/CH
1,5/8	24/20/18/16/14/12	95	30	22.22	1T	6.35	6	2B	2P	A/B/C/CH
1,11/16	24/20/18/16/14/12	95	30	22.22	1T	6.35	6	2B	2P	A/B/C/CH
1,3/4	18/16/14/12/11/10	95	30	31.75	1T	8	6	2B	2P	A/B/C/CH
~4"	~	~	~	~	~	~	~	~	2P	A/B/C/CH

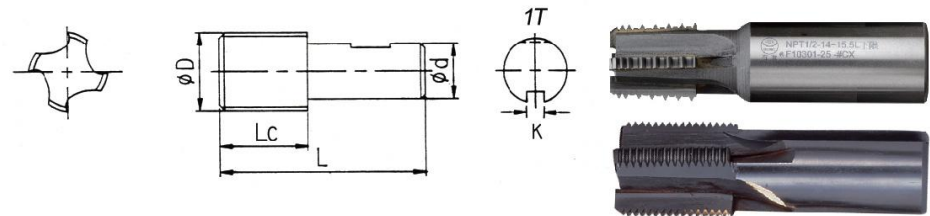


相關螺紋規格繁多，上表未列舉規格可接受訂製!! (如外觀尺寸變更將依本公司提供之產品為主)

焊接鎢鋼直溝絲攻-公制螺紋/統一螺紋-側固柄  
 跳牙焊接鎢鋼直溝絲攻-公制螺紋/統一螺紋-側固柄  
 Welded Carbide Taps -Straight Flutes-Metric Thread/Unified Thread ( Side Set Shank )  
 Interrupted Welded Carbide Taps -Straight Flutes-Metric Thread/Unified Thread (Side Set Shank)

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

公制螺紋 M Metric Thread		形 狀 Shape			側固柄		刃數 N Flutes	精度	無效牙長 倒 角 Chamfer Length	備註 Remarks
外徑(O.D.)	牙距(Pitch)	總長(L)	刀長(Lc)	柄徑(d)	側固式 fix type	鍵槽寬 Key width				
M14	2.0/1.5/1.25/1.0	85	20	22.22	1T	6.5	4	6H	2P	A/B/C/CH
M15	1.5/1.0	85	20	22.22	1T	6.5	4	6H	2P	A/B/C/CH
M16	2.0/1.5/1.25/1.0	85	20	22.22	1T	6.5	4	6H	2P	A/B/C/CH
M18	2.0/1.5/1.25/1.0	85	20	22.22	1T	6.5	4	6H	2P	A/B/C/CH
M20	2.0/1.5/1.0	85	20	22.22	1T	6.5	4	6H	2P	A/B/C/CH
M21	1.5/1.0	85	23	22.22	1T	6.5	4	6H	2P	A/B/C/CH
M22	2.0/1.5/1.0	85	23	22.22	1T	6.5	4	6H	2P	A/B/C/CH
M24	2.0/1.5/1.0	85	23	22.22	1T	6.5	4	6H	2P	A/B/C/CH
M25	1.5/1.0	85	23	22.22	1T	6.5	4	6H	2P	A/B/C/CH
M26	2.0/1.5/1.0	85	23	22.22	1T	6.5	4	6H	2P	A/B/C/CH
M27	1.5/1.0	85	23	22.22	1T	6.5	4	6H	2P	A/B/C/CH
M28	2.0/1.5/1.0	85	23	22.22	1T	6.5	4	6H	2P	A/B/C/CH
M30	2.0/1.5/1.0	85	23	22.22	1T	6.5	4	6H	2P	A/B/C/CH
M32	2.0/1.5/1.0	85	23	22.22	1T	6.5	4	6H	2P	A/B/C/CH
M33	2.0/1.5/1.0	85	23	22.22	1T	6.5	6	6H	2P	A/B/C/CH
M34	2.0/1.5/1.0	85	23	22.22	1T	6.5	6	6H	2P	A/B/C/CH
M35	2.0/1.5/1.0	85	23	22.22	1T	6.5	6	6H	2P	A/B/C/CH
M36	2.0/1.5/1.0	95	30	22.22	1T	6.5	6	6H	2P	A/B/C/CH
M37	2.0/1.5/1.0	95	30	22.22	1T	6.5	6	6H	2P	A/B/C/CH
M38	2.0/1.5/1.0	95	30	22.22	1T	6.5	6	6H	2P	A/B/C/CH
M39	2.0/1.5/1.0	95	30	22.22	1T	6.5	6	6H	2P	A/B/C/CH
M40	2.0/1.5/1.0	95	30	22.22	1T	6.5	6	6H	2P	A/B/C/CH
M42	2.0/1.5/1.0	95	30	31.75	1T	8.0	6	6H	2P	A/B/C/CH
M45	2.0/1.5/1.0	95	30	31.75	1T	8.0	6	6H	2P	A/B/C/CH
M48	2.0/1.5/1.0	95	30	31.75	1T	8.0	6	6H	2P	A/B/C/CH
M50	2.0/1.5/1.0	95	30	31.75	1T	8.0	6	6H	2P	A/B/C/CH
~M120	2.5/2.0/1.5	~	~	~	~	~	~	~	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-直溝型 & 跳牙直溝型-側固柄 (Side Set Shank)  
 Welded Carbide Taps - Straight Flutes & Interrupted Flutes

焊接鎢鋼直溝絲攻-直溝型 & 跳牙直溝型-側固柄 (Side Set Shank)  
 Welded Carbide Taps - Straight Flutes & Interrupted Flutes

焊接鎢鋼直溝絲攻-平行管用螺紋-側固柄  
 跳牙焊接鎢鋼直溝絲攻-平行管用螺紋-側固柄  
 Welded Carbide Taps - Straight Flutes-Parallel Pipe Thread ( Side Set Shank )  
 Interrupted Welded Carbide Taps -Straight Flutes-Parallel Pipe Thread ( Side Set Shank )

焊接鎢鋼直溝絲攻-錐度管用螺紋-側固柄  
 跳牙焊接鎢鋼直溝絲攻-錐度管用螺紋-側固柄  
 Welded Carbide Taps -Straight Flutes-Taper Pipe Thread ( Side Set Shank )  
 Interrupted Welded Carbide Taps -Straight Flutes- Taper Pipe Thread ( Side Set Shank )

焊接鎢鋼直溝絲攻-直溝型 & 跳牙直溝型-側固柄 (Side Set Shank)  
 Welded Carbide Taps - Straight Flutes & Interrupted Flutes

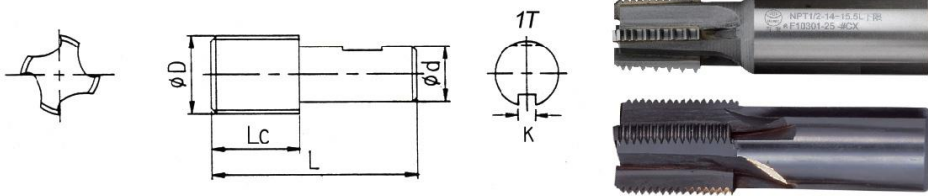
焊接鎢鋼直溝絲攻-直溝型 & 跳牙直溝型-側固柄 (Side Set Shank)  
 Welded Carbide Taps - Straight Flutes & Interrupted Flutes

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

規格 Specification	形狀 Shape			側固柄		刀數 N Flutes	精度	無效牙長		備註 Remarks
	總長(L)	刃長(Lc)	柄徑(d)	側固式 fix type	鍵槽寬 Key width			倒角 Chamfer Length	倒角 Chamfer Length	
管用平行牙規格 PF(G)&PS(Rp)										
(G)PF1/4-19	85	18	22.22	1T	6.35	4	ISO	2P		A/B/C/CH
(G)PF3/8-19	85	18	22.22	1T	6.35	4	ISO	2P		A/B/C/CH
(G)PF1/2-14	85	23	22.22	1T	6.35	4	ISO	2P		A/B/C/CH
(G)PF3/4-14	85	23	22.22	1T	6.35	4	ISO	2P		A/B/C/CH
(G)PF1-11	85	23	22.22	1T	6.35	4	ISO	2P		A/B/C/CH
(G)PF1,1/4-11	95	30	31.75	1T	8	6	ISO	2P		A/B/C/CH
(G)PF1,1/2-11	95	30	31.75	1T	8	6	ISO	2P		A/B/C/CH
(G)PF2-11	95	30	31.75	1T	8	6	ISO	2P		A/B/C/CH
(G)PF2,1/2-11	95	30	31.75	1T	8	6	ISO	2P		A/B/C/CH
(Rp)PS1/4-19	85	18	22.22	1T	6.35	4	ISO	2P		A/B/C/CH
(Rp)PS3/8-19	85	18	22.22	1T	6.35	4	ISO	2P		A/B/C/CH
(Rp)PS1/2-14	85	23	22.22	1T	6.35	4	ISO	2P		A/B/C/CH
(Rp)PS3/4-14	85	23	22.22	1T	6.35	4	ISO	2P		A/B/C/CH
(Rp)PS1-11	85	23	22.22	1T	6.35	4	ISO	2P		A/B/C/CH
(Rp)PS1,1/4-11	95	30	31.75	1T	8	6	ISO	2P		A/B/C/CH
(Rp)PS1,1/2-11	95	30	31.75	1T	8	6	ISO	2P		A/B/C/CH
(Rp)PS2-11	95	30	31.75	1T	8	6	ISO	2P		A/B/C/CH
(Rp)PS2,1/2-11	95	30	31.75	1T	8	6	ISO	2P		A/B/C/CH
美規管管平行牙規格 NPSM										
NPSM 1/4-18	85	18	22.22	1T	6.35	4	ANSI	2P		A/B/C/CH
NPSM 3/8-18	85	18	22.22	1T	6.35	4	ANSI	2P		A/B/C/CH
NPSM 1/2-14	85	23	22.22	1T	6.35	4	ANSI	2P		A/B/C/CH
NPSM 3/4-14	85	23	22.22	1T	6.35	4	ANSI	2P		A/B/C/CH
NPSM 1-11.5	85	23	22.22	1T	6.35	4	ANSI	2P		A/B/C/CH
NPSM 1,1/4-11.5	95	30	31.75	1T	8	6	ANSI	2P		A/B/C/CH
NPSM 1,1/2-11.5	95	30	31.75	1T	8	6	ANSI	2P		A/B/C/CH
NPSM 2-11.5	95	30	31.75	1T	8	6	ANSI	2P		A/B/C/CH

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

規格 Specification	形狀 Shape			側固柄		刀數 N Flutes	精度	無效牙長		備註 Remarks
	總長(L)	刃長(Lc)	柄徑(d)	側固式 fix type	鍵槽寬 Key width			倒角 Chamfer Length	倒角 Chamfer Length	
歐規管管推拔牙規格 PT(Rc)										
(Rc)PT1/4-19	85	18	22.22	1T	6.35	3	ISO	2P		A/B/C/CH
(Rc)PT 3/8-19	85	18	22.22	1T	6.35	4	ISO	2P		A/B/C/CH
(Rc)PT 1/2-14	85	23	22.22	1T	6.35	4	ISO	2P		A/B/C/CH
(Rc)PT 3/4-14	85	23	22.22	1T	6.35	4	ISO	2P		A/B/C/CH
(Rc)PT 1-11	85	23	22.22	1T	6.35	4	ISO	2P		A/B/C/CH
(Rc)PT 1,1/4-11	95	30	31.75	1T	8	5	ISO	2P		A/B/C/CH
(Rc)PT 1,1/2-11	95	30	31.75	1T	8	5	ISO	2P		A/B/C/CH
(Rc)PT 2-11	95	30	31.75	1T	8	5	ISO	2P		A/B/C/CH
美規管管推拔牙規格 NPT										
NPT 1/4-18	85	18	22.22	1T	6.35	3	ANSI	2P		A/B/C/CH
NPT 3/8-18	85	18	22.22	1T	6.35	4	ANSI	2P		A/B/C/CH
NPT 1/2-14	85	23	22.22	1T	6.35	4	ANSI	2P		A/B/C/CH
NPT 3/4-14	85	23	22.22	1T	6.35	4	ANSI	2P		A/B/C/CH
NPT 1-11.5	85	23	22.22	1T	6.35	4	ANSI	2P		A/B/C/CH
NPT 1,1/4-11.5	95	30	31.75	1T	8	5	ANSI	2P		A/B/C/CH
NPT 1,1/2-11.5	95	30	31.75	1T	8	5	ANSI	2P		A/B/C/CH
NPT 2-11.5	95	30	31.75	1T	8	5	ANSI	2P		A/B/C/CH
美規管管推拔牙規格 NPTF										
NPTF 1/4-18	85	18	22.22	1T	6.35	3	ANSI	2P		A/B/C/CH
NPTF 3/8-18	85	18	22.22	1T	6.35	4	ANSI	2P		A/B/C/CH
NPTF 1/2-14	85	23	22.22	1T	6.35	4	ANSI	2P		A/B/C/CH
NPTF 3/4-14	85	23	22.22	1T	6.35	4	ANSI	2P		A/B/C/CH
NPTF 1-11.5	85	23	22.22	1T	6.35	4	ANSI	2P		A/B/C/CH
NPTF 1,1/4-11.5	95	30	31.75	1T	8	5	ANSI	2P		A/B/C/CH
NPTF 1,1/2-11.5	95	30	31.75	1T	8	5	ANSI	2P		A/B/C/CH
NPTF 2-11.5	95	30	31.75	1T	8	5	ANSI	2P		A/B/C/CH
美規管管推拔牙規格 PTF										
PTF 1/4-18	85	18	22.22	1T	6.35	3	ANSI	2P		A/B/C/CH
PTF 3/8-18	85	18	22.22	1T	6.35	4	ANSI	2P		A/B/C/CH
PTF 1/2-14	85	23	22.22	1T	6.35	4	ANSI	2P		A/B/C/CH
PTF 3/4-14	85	23	22.22	1T	6.35	4	ANSI	2P		A/B/C/CH
PTF 1-11.5	85	23	22.22	1T	6.35	4	ANSI	2P		A/B/C/CH
PTF 1,1/4-11.5	95	30	31.75	1T	8	5	ANSI	2P		A/B/C/CH
PTF 1,1/2-11.5	95	30	31.75	1T	8	5	ANSI	2P		A/B/C/CH
PTF 2-11.5	95	30	31.75	1T	8	5	ANSI	2P		A/B/C/CH



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

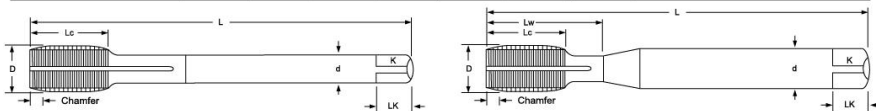
全鎢鋼無屑絲攻-公制螺紋&統一細螺紋-JIS方頭圓柄  
Solid Carbide Taps -Fluteless (Roll Form)-Metric & Unified Fine Thread (JIS Shank)

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)			
M0.8*0.20	50	3		3	2.5	5	6H	2P/4P	
M1.0*0.25	50	4		3	2.5	5	6H	2P/4P	
M1.2*0.25	50	5		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	



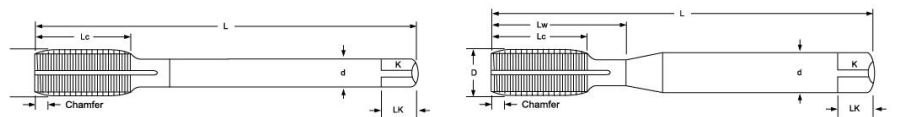
全鎢鋼無屑絲攻-統一螺紋&管用螺紋-JIS方頭圓柄  
Solid Carbide Taps -Fluteless (Roll Form)-Unified & Pipe Thread (JIS Shank)

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	
#12-24UNC	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)PS1/16-28	60	9		8	6	9	ISO	2P/4P	
(Rp)PS1/8-28	60	9		8	6	9	ISO	2P/4P	
(Rp)PS1/4-19	75	13		11	9	12	ISO	2P/4P	
NPSM1/16-27	60	9		8	6	9	ANSI	2P/4P	
NPSM1/8-27	60	9		8	6	9	ANSI	2P/4P	
NPSM1/4-18	75	13		11	9	12	ANSI	2P/4P	

管用推拔螺紋 Pipe Taper Thread PT(Rc)&NPT	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)	有效長(Lb)	柄徑(d)	對邊(k)	邊長(Lk)			
NPT1/16-27	60	16		8	6	9	ANSI	2P/4P	
NPT1/8-27	60	16		8	6	9	ANSI	2P/4P	
NPT1/4-18	75	20		11	9	12	ANSI	2P/4P	
(Rc)PT1/16-28	60	16		8	6	9	ISO	2P/4P	
(Rc)PT1/8-28	60	16		8	6	9	ISO	2P/4P	
(Rc)PT1/4-19	75	20		11	9	12	ISO	2P/4P	



全鎢鋼絲攻-捲壓型-JIS柄(JIS Shank)  
Solid Carbide Taps - Roll Form Fluteless

全鎢鋼絲攻-捲壓型-JIS柄(JIS Shank)  
Solid Carbide Taps - Roll Form Fluteless

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)

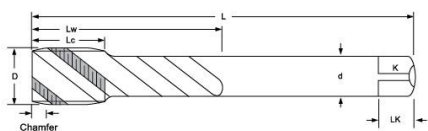
選用：□鍍鈦 □跳牙 Selection：□Coated □Interrupted

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 1.25 1.5	100	12		12.5	10	13	2P	A/C/CH	
M16		100	12		12.5	10	13	2P	A/C/CH	
M18		100	12		14	11	14	2P	A/C/CH	
M20		100	12		15	12	15	2P	A/C/CH	
M21	1.0 1.25 1.5 2.0	100	12		15	12	15	2P	A/C/CH	
M22		100	12		17	13	16	2P	A/C/CH	
M24		100	12		19	15	18	2P	A/C/CH	
M25		110	12		20	15	18	2P	A/C/CH	
M26	1.0 1.25 1.5 2.0	110	12		20	15	18	2P	A/C/CH	
M27		110	12		20	15	18	2P	A/C/CH	
M28		110	12		22	17	20	2P	A/C/CH	
M30		110	12		23	17	20	2P	A/C/CH	
M32	1.0 1.25 1.5 2.0	110	15		24	19	22	2P	A/C/CH	
M33		110	15		25	19	22	2P	A/C/CH	
M34		110	15		26	21	24	2P	A/C/CH	

焊接鎢鋼螺旋刀-統一螺紋-JIS方頭圓柄  
 跳牙焊接鎢鋼螺旋刀-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	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"		U18/U16	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"		U18/U16	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"		U18/U16	110	15		30	23	26	2P	A/C/CH

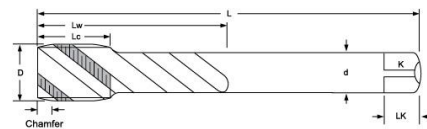


相關螺紋規格繁多，上表未列舉規格可接受訂製!! (如外觀尺寸變更將依本公司提供之產品為主)

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)	倒 角 Chamfer Length		
管用平行螺紋 PF(G)&PS(Rp)									
PF3/8-19	100	12		14	11	14	2P	A/C/CH	
PF1/2-14	100	12		18	14	17	2P	A/C/CH	
PF3/4-14	100	12		23	17	20	2P	A/C/CH	
PF1-11	110	15		26	21	24	2P	A/C/CH	
PF1-1/4-11	120	15		32	26	26	2P	A/C/CH	
PF1-1/2-11	120	15		32	26	26	2P	A/C/CH	
PF-2-11	120	15		32	26	26	2P	A/C/CH	
美規管用螺紋 NPSM									
NPSM3/8-18	100	12		14	11	14	2P	A/C/CH	
NPSM1/2-14	100	12		18	14	17	2P	A/C/CH	
NPSM3/4-14	100	12		23	17	20	2P	A/C/CH	
NPSM1-11.5	110	15		26	21	24	2P	A/C/CH	
NPSM1-1/4-11.5	120	15		32	26	26	2P	A/C/CH	
NPSM1-1/2-11.5	120	15		32	26	26	2P	A/C/CH	
NPSM2-11.5	120	15		32	26	26	2P	A/C/CH	
歐規管用推螺紋 PT									
PT3/8-19	100	20		14	11	14	2P	A/C/CH	
PT1/2-14	100	22		18	14	17	2P	A/C/CH	
PT3/4-14	100	22		23	17	20	2P	A/C/CH	
PT1-11	110	28		26	21	24	2P	A/C/CH	
PT1-1/4-11	120	28		32	26	26	2P	A/C/CH	
PT1-1/2-11	120	28		32	26	26	2P	A/C/CH	
PT2-11	120	28		32	26	26	2P	A/C/CH	
美規管用推螺紋 NPT									
NPT3/8-18	100	20		14	11	14	2P	A/C/CH	
NPT1/2-14	100	22		18	14	17	2P	A/C/CH	
NPT3/4-14	100	22		23	17	20	2P	A/C/CH	
NPT1-11.5	110	28		26	21	24	2P	A/C/CH	
NPT1-1/4-11.5	120	28		32	26	26	2P	A/C/CH	
NPT1-1/2-11.5	120	28		32	26	26	2P	A/C/CH	
NPT2-11.5	120	28		32	26	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-螺旋型 & 跳牙螺旋型-JIS方頭圓柄  
 Welded Carbide Taps - Spiral Flutes & Interrupted Flutes



焊接鎢鋼螺旋溝-螺旋型 & 跳牙螺旋型-JIS方頭圓柄  
 Welded Carbide Taps - Spiral Flutes & Interrupted Flutes

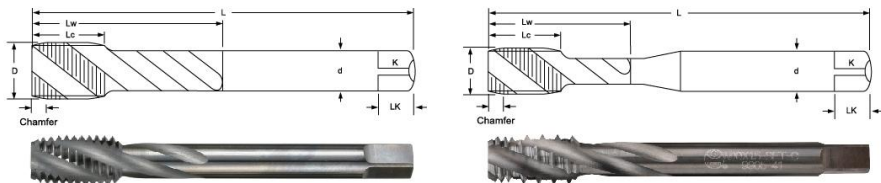


全鎢鋼螺旋溝-公制螺紋-JIS方頭圓柄  
 跳牙全鎢鋼螺旋溝-公制螺紋-JIS方頭圓柄  
 Solid Carbide Taps -Spiral Flutes-Metric Thread (JIS Shank)  
 Interrupted Solid Carbide Taps -Spiral Flutes-Metric Thread (JIS Shank)

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		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	倒角 Chamfer Length	
M3*0.5	50	7		4	3.2	6	6H	2P	OA/O	
M3.5*0.6	50	7		4	3.2	6	6H	2P	OA/O	
M4*0.7	50	7		5	4	7	6H	2P	A/OA/O	
M4.5*0.75	50	8		5	4	7	6H	2P	A/OA/O	
M5*0.8	60	8		5.5	4.5	7	6H	2P	A/OA/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		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	倒角 Chamfer Length	
MF4*0.5	50	8		5	4	7	6H	2P	A/OA/O	
MF5*0.5	60	8		5.5	4.5	7	6H	2P	A/OA/O	
MF6*0.5	60	8		6	4.5	7	6H	2P	A/OA/O	
MF6*0.75	60	8		6	4.5	7	6H	2P	A/OA/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		7.7	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	
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		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	倒角 Chamfer Length	
#5-40UNC	50	8		4	3.2	6	2B	2P	OA/O	
#6-32UNC	50	8		4	3.2	6	2B	2P	OA/O	
#8-32UNC	50	8		5	4	7	2B	2P	A/OA/O	
#10-24UNC	60	10		5.5	4.5	7	2B	2P	A/OA/O	
#12-24UNC	60	10		5.5	4.5	7	2B	2P	A/OA/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		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	倒角 Chamfer Length	
#5-44UNF	50	7		4	3.2	6	2B	2P	OA/O	
#6-40UNF	50	7		4	3.2	6	2B	2P	OA/O	
#8-36UNF	50	7		5	4	7	2B	2P	A/OA/O	
#10-32UNF	60	8		5.5	4.5	7	2B	2P	A/OA/O	
#12-28UNF	60	9		5.5	4.5	7	2B	2P	A/OA/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	倒角 Chamfer Length	
#12-32UNEF	60	8		5.5	4.5	7	2B	2P	A/OA/O	
1/4-32UNEF	60	8		6	4.5	7	2B	2P	A/C/O	
5/16-32UNEF	70	8		6.1	5	8	2B	2P	A/C/CH	
3/8-32UNEF	75	8		7	5.5	8	2B	2P	A/C/CH	
7/16-28UNEF	75	9		8	6	9	2B	2P	A/C/CH	
1/2-28UNEF	75	9		9	7	10	2B	2P	A/C/CH	
9/16-24UNEF	75	10		10.5	8	11	2B	2P	A/C/CH	
5/8-24UNEF	75	10		12	9	12	2B	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）

全鎢鋼絲攻-螺旋型 & 跳牙螺旋型-JIS柄 (JIS Shank)  
 Solid Carbide Taps - Spiral Flutes & Interrupted Flutes



全鎢鋼絲攻-螺旋型 & 跳牙螺旋型-JIS柄 (JIS Shank)  
 Solid Carbide Taps - Spiral Flutes & Interrupted Flutes





### 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。

訂製款  
Custom Type



### 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。

訂製款  
Custom Type



### 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。

訂製款  
Custom Type

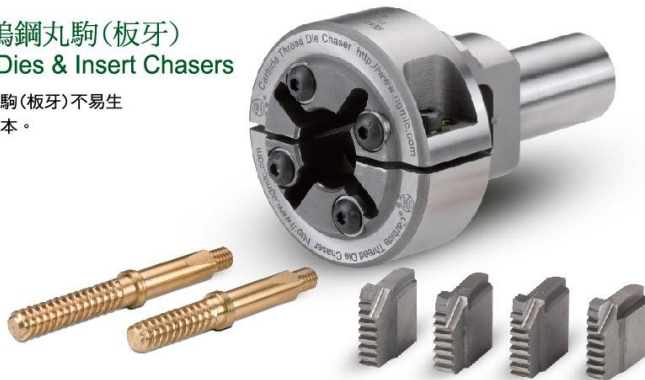


### 捨棄式可調帶柄鎢鋼丸駒(板牙) Adjustable Thread Dies & Insert Chasers

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



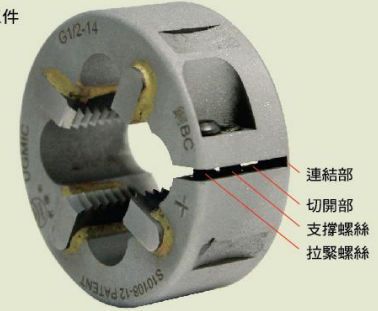
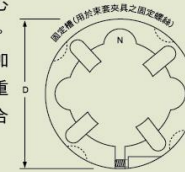
相關螺紋規格繁多，上表未列舉規格可接受訂製!! (如外觀尺寸變更將依本公司提供之產品為主)

### 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。
- 支撐螺絲/可於板牙裝夾前調整(撐大)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

規格Size	螺紋公稱 Thread		外型尺寸 Shape 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

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

規格Size	螺紋公稱 W-Thread		外型尺寸 Shape 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	3	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		38/50	4	18/20
5/8"				U18	U24		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	10/18
G1/8	28	25/38	4	10/18
G1/4	19	38/50	4	18/20
G3/8	19	50	4	20
G1/2	14	50	4/5	20
G3/4	14	50	4/5	20
G1	11	60/63	6	20
G1,1/4	11	70/75	6	22
G1,1/2	11	80	7	22
G2	11	90	7	22

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	10/18
Rp1/4"	19	38/50	4	18/20
Rp3/8"	19	50	4	20
Rp1/2"	14	50	4/5	20
Rp3/4"	14	50	4/5	20
Rp1"	11	60/63	6	20
Rp1,1/4"	11	70/75	6	22
Rp1,1/2"	11	80	7	22
Rp2"	11	90	7	24

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: 鍍鈦 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
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: 鍍鈦 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
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: 鍍鈦 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
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: 鍍鈦 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
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

客戶需求確認單-丸駒 (Requirement of order list-Thread Dies)

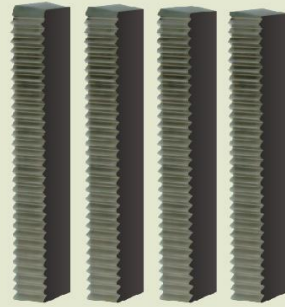
客戶名稱: Company				聯絡人: Undertaker				
聯繫電話: Tel				傳真: Fax				
序號 NO.	產品種類 Type	規格-牙距(可調) Thread Size (Adjustable)	被削材質 Workpiece Material	螺紋深度 Thread Length	螺紋周邊 干涉位置	檢驗要求 Quality Control	設備導程 Machine Pitch	特殊需求 Special Request
特別需求:								
備註:								

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)

## 訂製款鎢鋼牙板片(TC/DC)

TC=Tap Chaser for Internal Thread  
DC=Die Chaser for External Thread

絲攻牙板片裝置於絲攻牙板座中，用以生產內螺紋  
丸駒牙板片裝置於丸駒牙板座中，用以生產外螺紋



TC (四片一組) / DC (四片一組)

### 鎢鋼牙板片(TC)規格表

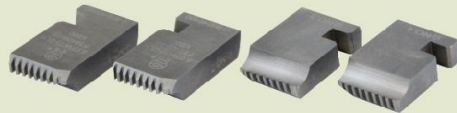
厚(B)	寬(W)	長(L)	螺紋規格 Thread Size
5	7	52	W/U20
			W/U18
5	8	52	W/U16
			W/U14
5.5	8	52	W/U12
			W/U11
5.5	9	52	W/U11-1/2
			PT NPT 14
8	14.5/15.2	70	PT 11
8.5	19	100	NPT 11-1/2

### 鎢鋼牙板片(DC)規格表

厚(B)	寬(W)	長(L)	螺紋規格 Thread Size
5.5	12.1	50	W/U20
			W/U18
			W/U16
5.5	12.1	70	W/U14
			W/U12
			W/U11
6	12.1	70	W/U11-1/2
			PT NPT 14
6.5	15.2	70	PT 11
8	15.2	70	NPT 11-1/2

## 訂製款鎢鋼牙只(日式/德式)

日式19型牙只四片一組，組裝於專用牙刀座，右螺紋分別依順時針方向排列組裝成組使用，同一生產批號的相同序號可互換，大幅降低成本。



日式19型牙只 (四片一組)

德式梳刀片，四片一組，組裝於專用牙刀座，用於外螺紋之加工，右螺紋分別依順時針方向排列組裝成組使用，同一生產批號的相同序號可互換，大幅降低成本。



德式梳刀片 (四片一組)

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)

## 全鎢鋼銑牙輪(外螺紋用) Carbide Thread Mills For Auto-Lathe

- 特殊切削角處理，切削性能高，精密高  
Clearance angle treatment for high cutting function and precision.
- 特殊鎢鋼，硬度高耐磨損，壽命長品質穩定  
Special carbide for high hardness, high life and high quality.



切削角做特殊處理，正常使用下壽命為HSS材質之數十倍，正常使用之前提如下：

1. 嚴禁撞刀(調校機台前，不可使機構干涉與其他車刀碰撞)
2. 嚴禁傳動皮帶斷裂造成撞刀，建議使用鋼絲傳動皮帶。
3. 嚴禁使用刀背銑牙，一定嚴重崩壞。

### 全鎢鋼銑牙輪外徑規格表

外徑規格 mm	厚度 mm	牙距 Pitch			
		牙距 M	U,W牙數/吋	錐度牙(牙數/吋)	梯型牙
54	6		U48		
54	8		U44		Tr 1.5
54	10	P0.5	U40		Tr 2.0
54	12	P0.6	U36		Tr 2.5
54	14	P0.7	U32	NPT27	Tr 3
54	16	P0.75	U28	NPT18	Tr 6
54	18	P0.8	U27	NPT14	Tr 8
54	20	P1.0	U24	NPT11.5	Tr 10
64	6	P1.25	U20 W28	PT28/	Tr 12
64	8	P1.5	U18 W19	PT19	Tr 14
64	10	P1.75	U16 W11	PT14	ACME 6
64	12	P2.0	U14	PT11	ACME 8
64	14	P2.5	U13		ACME 10
64	16	P3.0	U12		ACME 12
64	18		U11.5		ACME 14
64	20		U10		
64	20		U9		

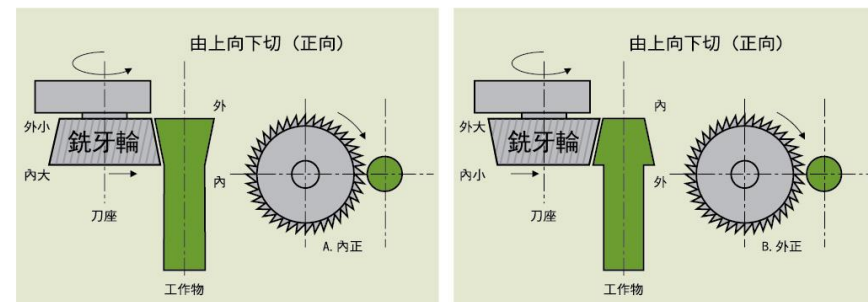
### 全鎢鋼銑牙輪規格標示如下:

Ø64B10U20

外徑規格 mm  
厚度 mm  
牙距 Pitch

客戶需求確認單-範例 Order List- Example		
外徑	厚度	螺紋種類及牙距

### 錐度螺紋之銑牙輪應用方向實例



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)

## 鎢鋼螺紋切削工具-螺紋銼刀

(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，硬度高耐磨損，壽命長，品質穩定。
- 依被削材質需求，訂製適合之螺紋銼刀，高度客製化產品。
- 依被削需求增加奈米TiAlCrN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.

高性能  
高精度  
高壽命

HIGH FUNCTION  
HIGH PRECISION  
HIGH LIFE

## 行星式螺紋銼刀 (Thread Milling Cutter)

行星式螺紋銼刀為電腦加工中心機所開發之高效能螺紋生產刀具

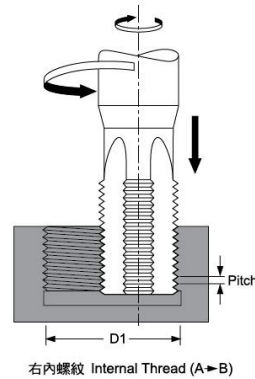
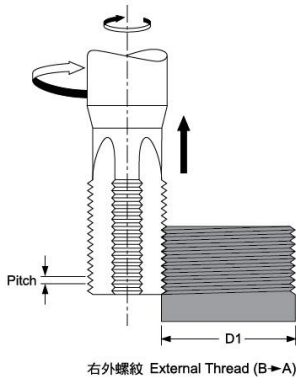
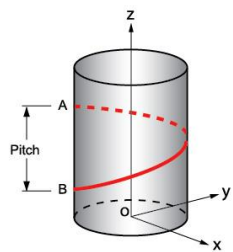
- 主要利用電腦加工中心機之三軸同動原理銼削生產螺紋
- 同一把螺紋銼刀透過電腦程序控制，可生產相同牙距之左右螺紋與內外螺紋，並可控制生產不同尺寸與公差要求之螺紋產品。

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

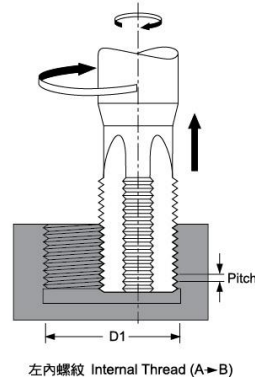
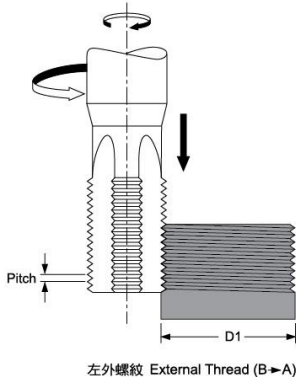
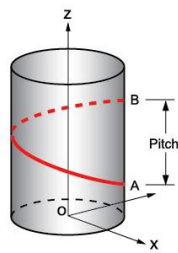
- Mills, cuts threads via simultaneous X, Y and Z-axis.
- CNC cuts left, right, internal and external threads with one pitch as well as threads of different specs and tolerance without changing tool.

## 牙銼刀加工路徑-Z軸向 (Thread Milling Path-Z Axis)

右螺旋 Right Hand Thread



左螺旋 Left Hand Thread



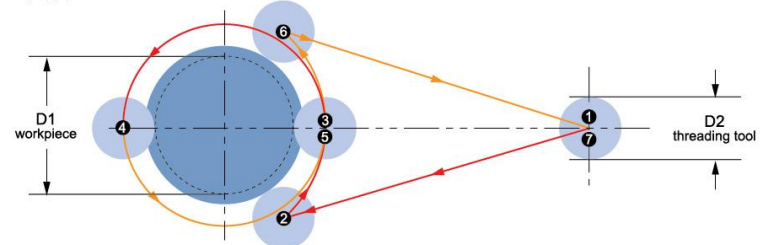
## 螺紋種類 (Thread Type)

公制螺紋: (Metric Thread)	M.....	60°
英制統一螺紋: (Unified Thread)	UNC, UNF, UNEF, UN, UNS....	60°
歐規惠氏螺紋: (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, TR.....		30°
英制鋸型螺紋: Butters.....		7° / 45°
公制鋸型螺紋: Butters.....		3° / 30°

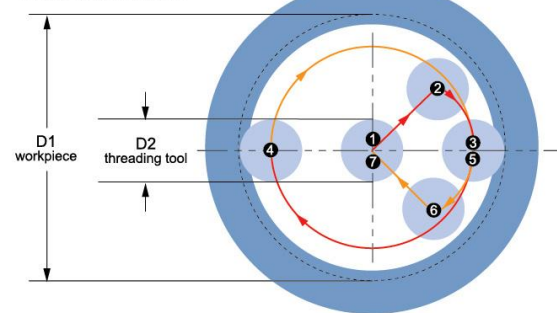
## 牙銼刀加工路徑-X-Y平面 (Thread Milling Path-X-Y Plane)

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



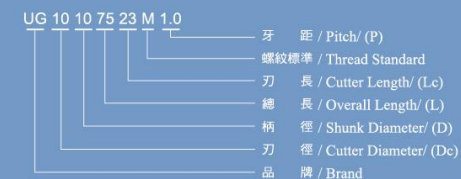
內螺紋 Internal Thread



## 使用要領如下 (User Tips)

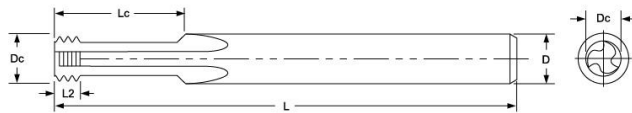
- 螺紋銼刀自轉速度須放慢；公轉路徑速度須放慢。
- 易加工材質建議深切、緩進一刀完成；難加工材質建議淺切、緩進多刀完成。
- Speed up rotation but slow down revolution of thread-milling cutter.
- Cut hard but slowly easy-to-process materials in one cycle, but cut lightly but slowly hard-to-process ones in multiple cycles.

## 規格標示 (Market)

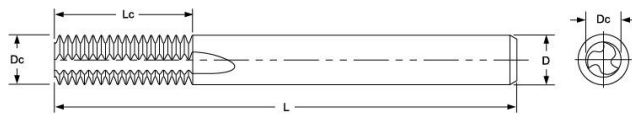


公制螺紋銑刀-直溝 / Metric Thread Mills - Straight Flutes

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	Cl
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

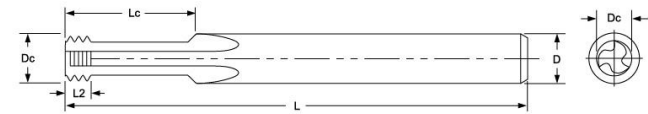


Metric M Thread - Cl Type

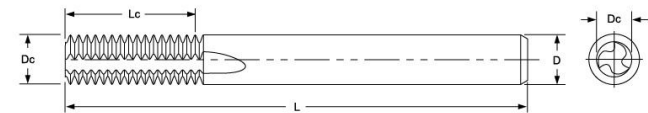
相關螺紋規格繁多，上表未列舉規格可接受訂製!! ( 如外觀尺寸變更將依本公司提供之產品為主 )

公制螺紋銑刀-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	Cs L2=3P	
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		Cl
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		
M24*3.5	24	3.5	20.5	20	20	100	30	UG202010030M3.5		
M24*3.0	24	3	21	20	20	100	30	UG202010030M3.0		
M24*2.5	24	2.5	21.5	20	20	100	30	UG202010030M2.5		



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



Metric Thread - Cl Type

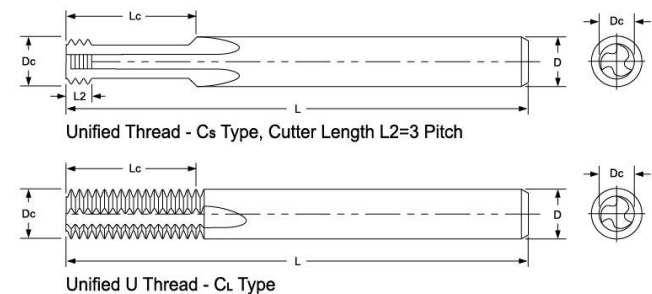
相關螺紋規格繁多，上表未列舉規格可接受訂製!! ( 如外觀尺寸變更將依本公司提供之產品為主 )

統一螺紋銑刀-直溝 / Unified Thread Mills - Straight Flutes

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	
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	

統一螺紋銑刀-直溝 / Unified Thread Mills - Straight Flutes

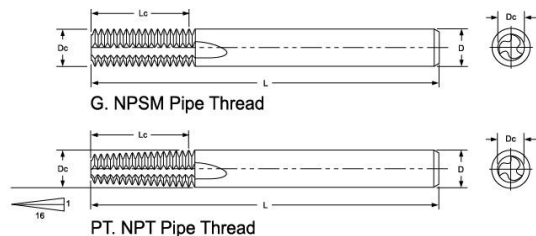
規格 Nominal Size	公稱直徑 N. D.	牙數 TPI	牙距 Pitch	下孔徑 Drill Size	刃徑 Dc	柄徑 D	總長 L	刃長 Lc	刀具型號 Ordering Code	型式 Type
1/2-13UNC	12.700	13	1.954	10.75	10	10	75	23	UG10107523U13	Cl
1/2-16UN	12.700	16	1.588	11.11	10	10	75	23	UG10107523U16	
1/2-18UN	12.700	18	1.411	11.29	10	10	75	23	UG10107523U18	
1/2-20UNF	12.700	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	Cl
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	
7/8"-8UN	22.225	8	3.175	19.05	16	16	100	30	UG161610030U8	
7/8-9UNC	22.225	9	2.822	19.40	16	16	100	30	UG161610030U9	
7/8-10UN	22.225	10	2.540	19.69	16	16	100	30	UG161610030U10	
7/8-12UN	22.225	12	2.117	20.11	16	16	100	30	UG161610030U12	
7/8-14UNF	22.225	14	1.814	20.41	16	16	100	30	UG161610030U14	
7/8-16UN	22.225	16	1.588	20.64	16	16	100	30	UG161610030U16	



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)

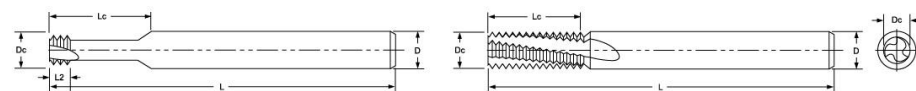
相關螺紋規格繁多，上表未列舉規格可接受訂製!! (如外觀尺寸變更將依本公司提供之產品為主)

規格 Nominal Size	公稱直徑 N. D.	牙數 TPI	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



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)

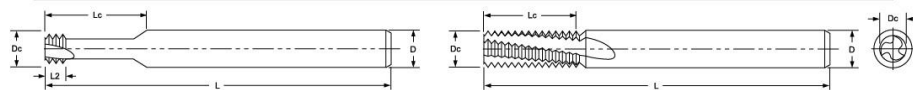
規格 Nominal Size	公稱直徑 N. D.	牙距 Pitch	下孔徑 Drill Size	刃徑 Dc	柄徑 D	總長 L	刃長 Lc	刀具型號 Ordering Code	
M1.4*0.3	1.4	0.3	1.1	1	4	50	4	UG01045004M0.3	Cs L2=3P
M1.6*0.35	1.6	0.35	1.25	1.2	4	50	4	UG1.2045004M0.35	
M2*0.4	2	0.4	1.6	1.5	4	50	5	UG1.5045005M0.4	
M2.5*0.45	2.5	0.45	2.05	1.8	4	50	6	UG1.8045006M0.45	
M3*0.5	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	UG03045010M0.7	
M5*0.8	5	0.8	4.2	4	4	50	10	UG04045012M0.8	
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	
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	
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	
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	



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

Metric Thread - Cl Type

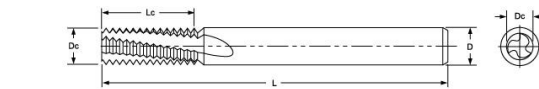
規格 Nominal Size	公稱直徑 N. D.	牙數 TPI	牙距 Pitch	下孔徑 Drill Size	刃徑 Dc	柄徑 D	總長 L	刃長 Lc	刀具型號 Ordering Code	型式 Type
#0-80	1.524	80	0.318	1.21	1.0	4	50	5	UG01045005U80	Cs L2=3P
#1-64UNC	1.854	64	0.397	1.46	1.3	4	50	5	UG1.3045005U64	
#1-72UNF	1.854	72	0.353	1.50	1.3	4	50	5	UG1.3045005U72	
#2-56UNC	2.184	56	0.454	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	UG2.045008U40	
#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	UG3.045010U32	
#8-36UNF	4.166	36	0.706	3.46	3.0	4	50	10	UG3.045010U36	
#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	UG4.045012U24	
#12-28UNF	5.486	28	0.907	4.58	4.0	4	50	12	UG4.045012U28	
#12-32UNEF	5.486	32	0.794	4.69	4.0	4	50	12	UG4.045012U32	
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	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	UG6.0666016U18	
5/16-24UNF	7.938	24	1.058	6.88	6.0	6	60	16	UG6.0666016U24	
5/16-32UNEF	7.938	32	0.794	7.14	6.0	6	60	16	UG6.0666016U32	
3/8-16UNC	9.525	16	1.588	7.94	7	8	75	23	UG7.087523U16	
3/8-24UNF	9.525	24	1.058	8.47	7	8	75	23	UG7.087523U24	
3/8-32UNEF	9.525	32	0.794	8.73	7	8	75	23	UG7.087523U32	
7/16-14UNC	11.113	14	1.814	9.30	8	8	75	23	UG8.087523U14	
7/16-20UNF	11.113	20	1.270	9.84	8	8	75	23	UG8.087523U20	
7/16-28UNEF	11.113	28	0.907	10.21	8	8	75	23	UG8.087523U28	
1/2-13UNC	12.700	13	1.954	10.75	9	10	75	23	UG9.107523U13	
1/2-20UNF	12.700	20	1.270	11.43	10	10	75	23	UG10.107523U20	
1/2-28UNEF	12.700	28	0.907	11.79	10	10	75	23	UG10.107523U28	
9/16-12UNC	14.288	12	2.117	12.17	10	10	75	23	UG10.107523U12	
9/16-18UNF	14.288	18	1.411	12.88	10	10	75	23	UG10.107523U18	
9/16-24UNEF	14.288	24	1.058	13.23	10	10	75	23	UG10.107523U24	
5/8-11UNC	15.875	11	2.309	13.57	12	12	100	30	UG12.1210030U11	
5/8-18UNF	15.875	18	1.411	14.46	12	12	100	30	UG12.1210030U18	
5/8-24UNEF	15.875	24	1.058	14.82	12	12	100	30	UG12.1210030U24	
3/4-10UNC	19.050	10	2.540	16.51	14	14	100	30	UG14.1410030U10	
3/4-16UNF	19.050	16	1.588	17.46	14	14	100	30	UG14.1410030U16	
3/4-20UNEF	19.050	20	1.270	17.78	14	14	100	30	UG14.1410025U20	
7/8-9UNC	22.225	9	2.822	19.40	16	16	100	30	UG16.1610030U9	
7/8-14UNF	22.225	14	1.814	20.41	16	16	100	30	UG16.1610030U14	
7/8-20UNEF	22.225	20	1.270	20.96	16	16	100	30	UG16.1610025U20	
1"-8UNC	25.400	8	3.175	22.23	16	16	100	30	UG16.1610030U8	
1"-12UNF	25.400	12	2.117	23.28	16	16	100	30	UG16.1610030U12	
1"-20UNEF	25.400	20	1.270	24.13	16	16	100	30	UG16.1610025U20	



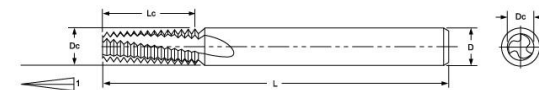
Unified Thread - Cs Type, Cutter Length L2=3 Pitch

Unified Thread - Lc Type

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	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	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	12	UG06066012N27
NPSM1/8-27	10.242	27	9.30	7	8	75	16	UG07087516N27
NPSM1/4-18	13.616	18	12.20	10	10	75	20	UG10107520N18
NPSM3/8-18	17.055	18	15.64	12	12	100	25	UG121210025N18
NPSM1/2-14	21.224	14	19.41	12	12	100	25	UG121210025N14
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	12	UG06066012NPT27
NPT1/8-27	10.242	27	9.30	7	8	75	16	UG07087516NPT27
NPT1/4-18	13.616	18	12.20	10	10	75	20	UG10107520NPT18
NPT3/8-18	17.055	18	15.64	12	12	100	25	UG121210025NPT18
NPT1/2-14	21.224	14	19.41	12	12	100	25	UG121210025NPT14
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)