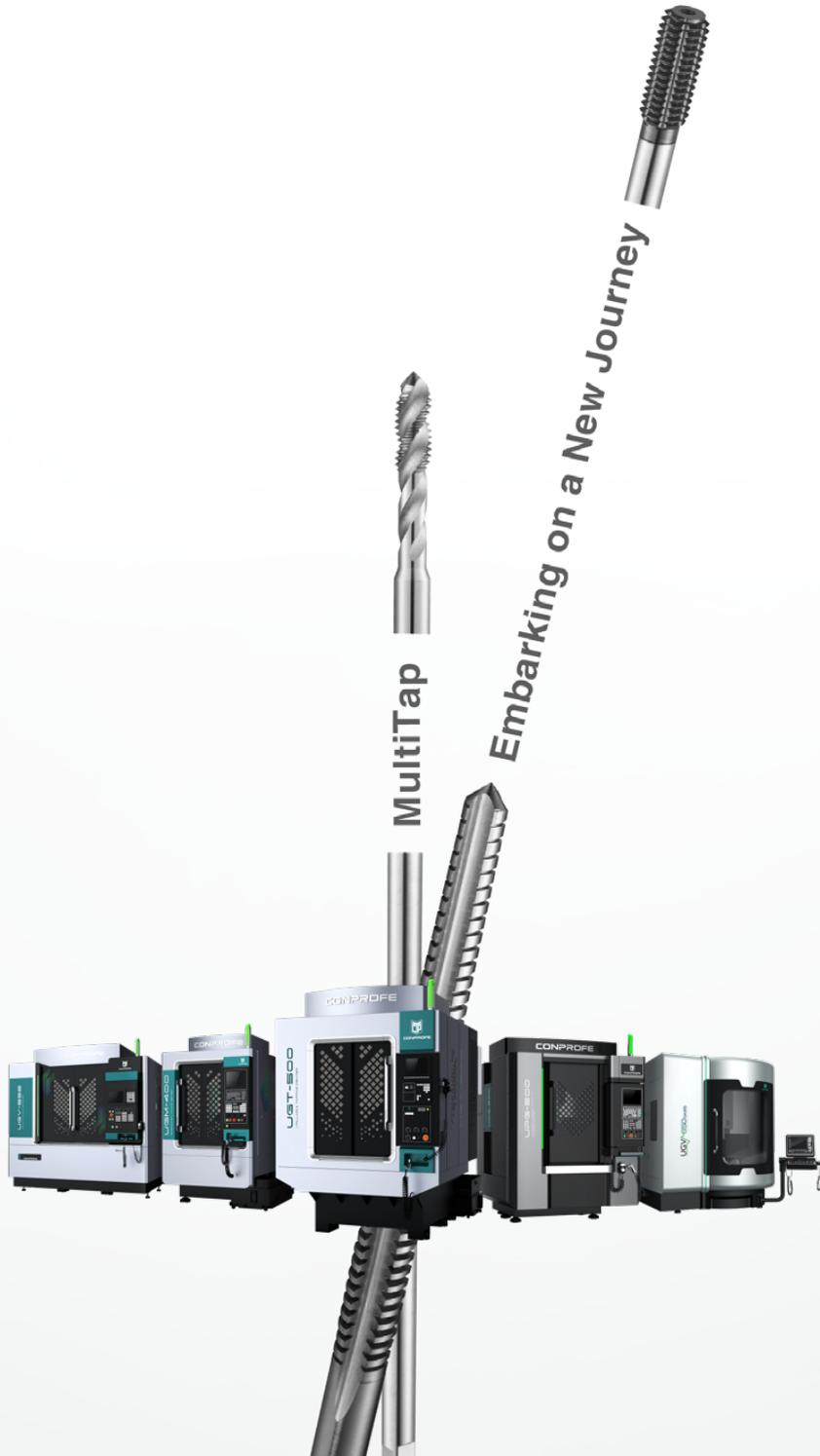
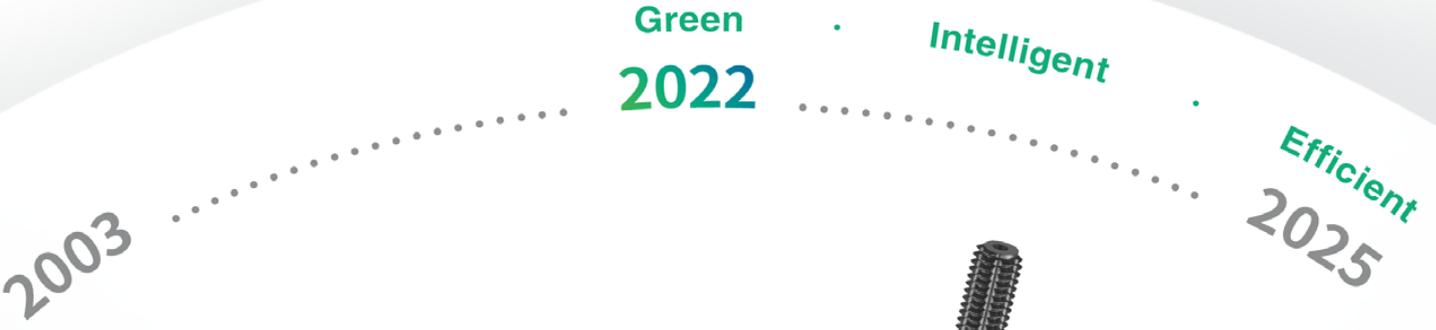




CONPROFE

CONverging of Global Resources
PROFEssional as Industry Leader



» Field of Application

Tapping tools are extensively used in almost all cnc machining industries including automotive, aviation & aerospace, electronic consumer, die & mold, machine and tool, general machinery (home hardware/fasteners), power generation, oil & gas, military & national defense, etc.





C Tapping Tools Contents

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» Company Profile

Conprofe Ultrasonic Green Tool Business Unit (CUGT BU) is committed to providing precision tools and ultrasonic green manufacturing solutions. In the past two decades, we have been adhering to the idea of "CONverging of Global Resources, PROFEssional as Industry Leader", focusing closely on the thread of "green, intelligent and efficient", leading the innovation of processing technology applications by integrating traditional machining with ultrasonic technologies and green technologies, successfully making the breakthrough in hard brittle materials, hard-to-cut metal materials and composite materials machining, forming five product categories including Super-hard Tools, Tapping Tools, Precision Tool Holders, Ultrasonic Technologies and Green Technologies, which consists of eight product series such as Carbide Tools, Diamond Tools, Tapping Tools, Thread Milling Tools, Hydraulic Tool Holders, Shrink-fit Tool Holders, Ultrasonic Machining and Welding Systems, Clean Machining Equipment, which have been widely used at well-known customers' from consumable electronics, semiconductor, automotive, aerospace, medical field, general precision manufacturing, etc.

Located at Guangzhou Science City, based on the group platform, CUGT BU has established a network of R&D, sales and service based in Hong Kong, Taiwan, the United States, South Korea, India and Vietnam, etc., with intellectual property distributed in over 30 countries and regions and products exported to over 70 countries and regions across six continents, gradually shaping an integrated distribution of R&D, production, sales and service around the globe.

CUGT BU owns strong technical advantages possessing over 200 sets of the world's state-of-art production and inspection equipment such as STUDER, DMG, SMS, ROLLOMATIC, CEMECON, ZEISS, POLYTEC, etc., and has established a Provincial Engineering Technology Center and Laboratory. Over 500 core technology patents were developed. The BU has undertaken a number of major national and provincial scientific and technological projects in the field of advanced manufacturing. Its ultrasonic green product technologies contribute to achieving "Carbon Peaking" and "Carbon Neutrality" goals, and have reached international advanced level as assessed and acknowledged by experts led by members of the Chinese Academy of Engineering (CAE). Furthermore, Conprofe has successively been granted the Guangdong Scientific and Technological Progress Award (First Prize), Guangdong Patent Award (Silver), China Patent Award (Excellence), etc.

CONPROFE

» Definition of CONPROFE



CONPROFE

Converging of Global Resources

Professional as Industry Leader

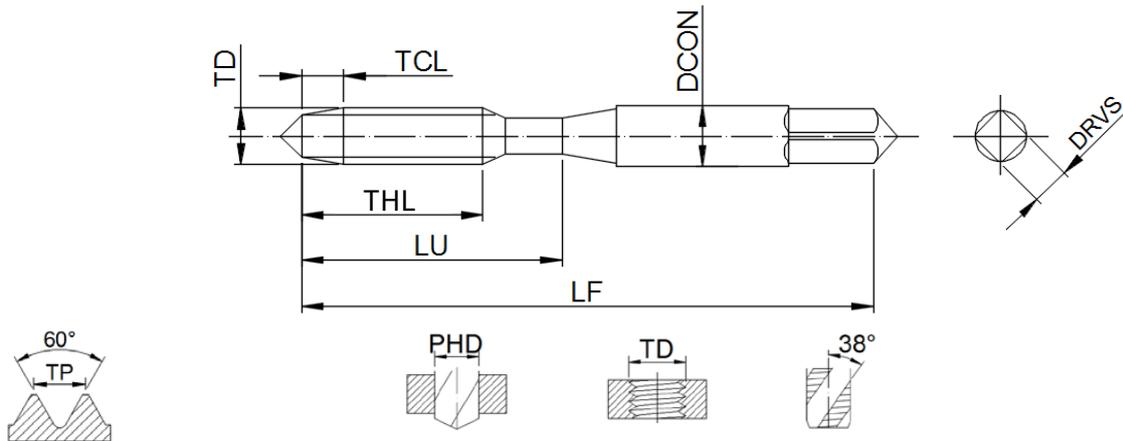
“ **CONPROFE** ”



» Production Equipment



1. Terminology



*The name of each part of the tap adopts the ISO 13399 standard, an international standard for convenient and efficient data exchange between cutting tools. By using uniform parameters and definitions, tool information exchange between software systems will definitely get easier.

Parameter	Definition	Parameter	Definition
DCON	Connection diameter	TCTR	Thread tolerance class
DRVS	Drive size	THL	Thread length
LF	Functional length	TP	Thread pitch
LU	Usable length (max. recommended)	TPI	Threads per inch
PHD	Premachined hole diameter	CXSC1	Coolant exit style code of axial concentric
TCL	Thread chamfer length	CXSC2	Coolant exit style code of radial exit
TD	Thread diameter	CXSC4	Coolant exit style code of axial concentric on circle

2. Limit Information

Technical Information

Application Index Table

Selection Guide

SFT-M

SFT-MF

SFT-UNC

SFT-UNF

POT-M

POT-MF

POT-UNC

POT-UNF

NRT-M

NRT-MF

Marking Information

Customized Request

2.1 HZ Limits

① $P \leq 0.6$ (TPI ≥ 40)

Upper limit: $0.01 + 0.015 * n$

Lower limit: (upper limit) - 0.015

Unit: mm (n: HZ number)

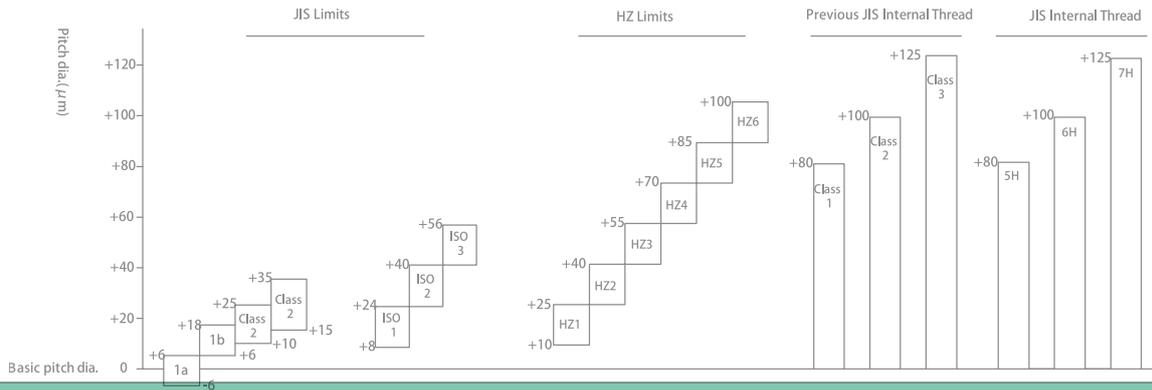
② $P \geq 0.7$ (TPI ≤ 36)

Upper limit: $0.02 * n$

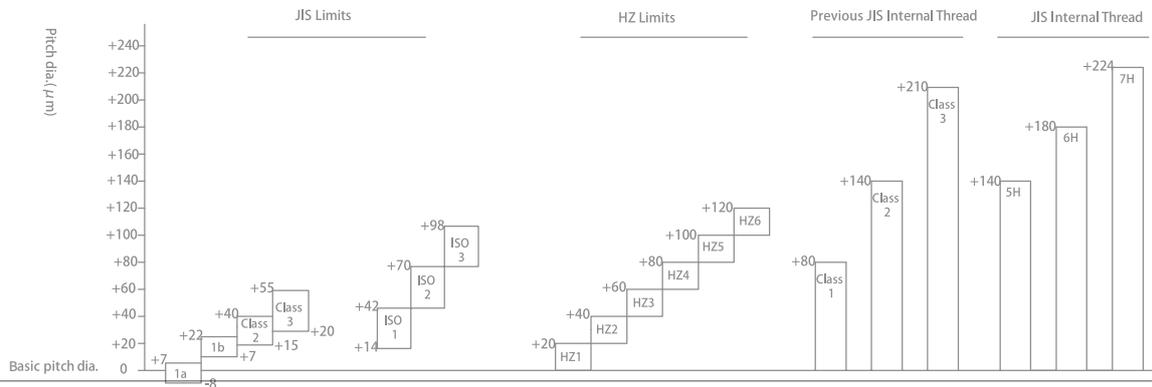
Lower limit: (upper limit) - 0.02

Unit: mm (n: HZ number)

Example: M3x0.5-HZ2 (STD)



Example: M10x1.5-HZ3 (STD)



2. Limit Information

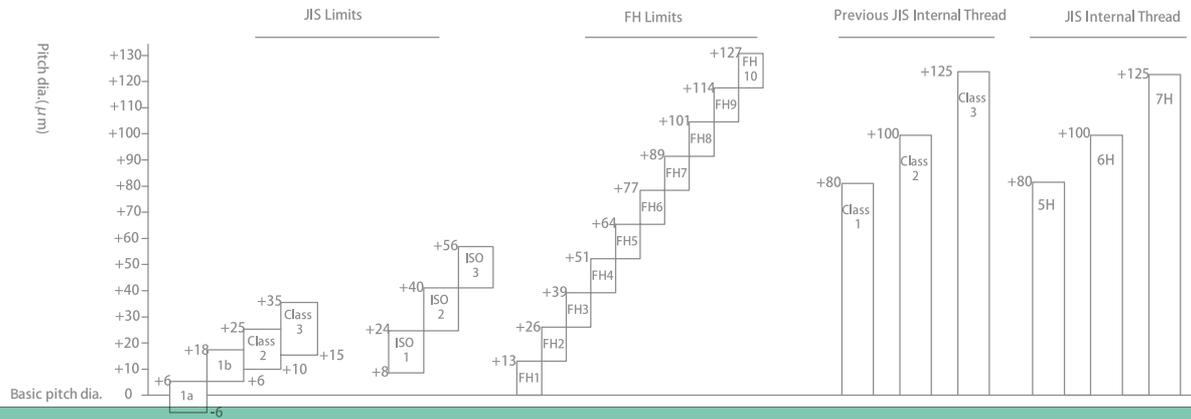
2.2 FH Limits

Upper limit: $0.0127 \cdot n$

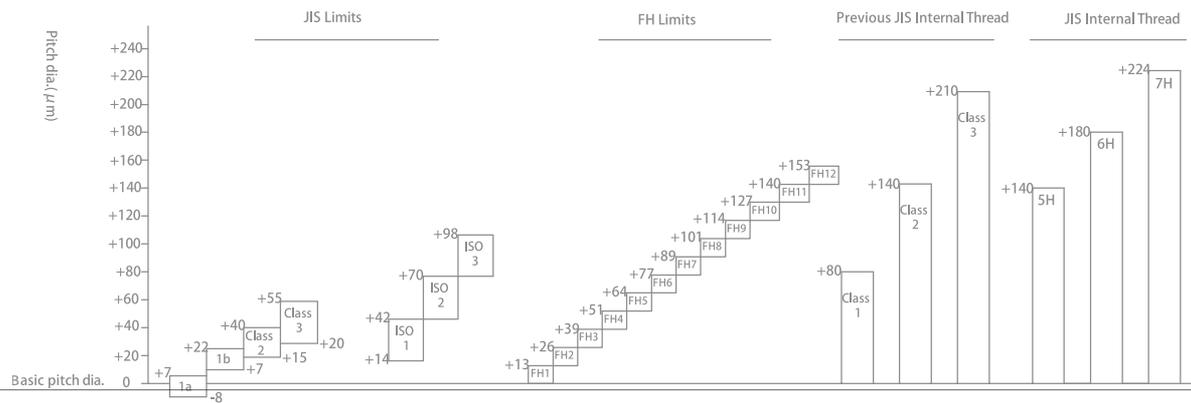
Lower limit: (upper limit)-0.0127

Unit: mm (n: FH number)

Example: M3x0.5-FH5 (STD)



Example: M10x1.5-FH7 (STD)



Grade Notes:

- ① STD: Recommended limit for 6H and class 2
- ② STD+1: Recommended limit for 1 oversized 6H and class 2
- ③ STD+2: Recommended limit for 2 oversized 6H and class 2

Technical Information

Application Index Table

Selection Guide

SFT-M

SFT-MF

SFT-UNC

SFT-UNF

POT-M

POT-MF

POT-UNC

POT-UNF

NRT-M

NRT-MF

Marking Information

Customized Request

3. Workpiece Material

Item	Description
HSS	High-speed steel
HSSE	High vanadium high-speed steel (cobalt)
HSCO	Cobalt high-speed steel
HSPM	High-speed power steel
HM	Hard material

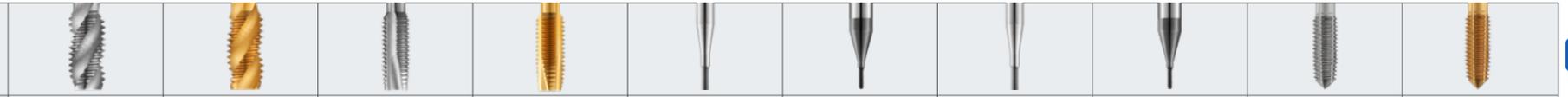
4. Surface Treatment

Item	Description	Applicable Materials
Bright	Polished finish	Copper, aluminum alloy, etc.
HAP	A black AlTiN-based coating	Non-alloy steel, alloy steel, high speed steel, etc.
SAP	A bronze TiSiN-based coating	Hardened steel, stainless steel, titanium alloy, etc.
GTS	A bright gold TiN-based coating	Carbon steel, aluminum alloy, cast iron, etc.
TDS	A dark grey TiCN-based coating	Alloy steel, stainless steel, cast iron, etc.
DLC	A bright black diamond-like carbon coating	Non-ferrous metals such as aluminum alloy, etc.

5. Types and Features

	Spiral Flute Taps (SFT)	Spiral Pointed Taps (POT)	Straight Flute Taps (HT)	Forming Taps (NRT)
Type				
Features	• Spiral flute	• Spiral point	• Straight flute	• Taps do not produce chips
	• Chips flow out against tapping direction	• Stronger style	• Strong cutting edges	• Precise uniformity of tapped thread limit
	• Lower tapping torque	• Pushes chips forward through the hole	• Easy to re-grind	• High strength of resistance to damage
Application				
	<ul style="list-style-type: none"> • First choice for blind holes • Recommended for the material giving long chips 	<ul style="list-style-type: none"> • First choice for through holes • Common tap style • High speed tapping 	<ul style="list-style-type: none"> • For through holes and blind holes • For short chipped material like cast iron • Hard materials 	<ul style="list-style-type: none"> • Can be used for all types of holes and depth • Materials with formability

CONPROFE
Machining Application Index Table



Explanation:

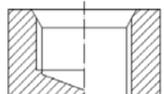
Note①: The cutting speeds (Vc) listed in the respective columns are recommended values which should be adjusted based on specific machining conditions (workpiece material, coolant type, machine type, etc.).

- Preferred choice
- Alternative choice

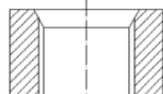
Note②: Chamfer (TCL): 2.5p means 2.5 times the thread pitch, 5p means 5 times the thread pitch, and so on and so forth.

Note③: Thread depth<2TD means the thread depth is less than 2 times the nominal diameter of the thread.

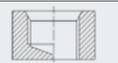
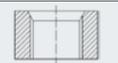
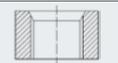
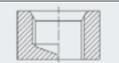
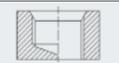
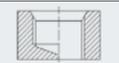
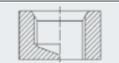
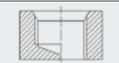
Note④: Hole types



Blind hole and through hole



Through hole

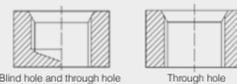
Type	SFT	SFT-GTS	POT	POT-GTS	NRT	NRT-DLC	NRT	NRT-DLC	NRT	NRT-DLC	NRT	NRT-GTS
Tool material-coating	HSSE	HSSE-GTS	HSSE	HSSE-GTS	HSPM	HSPM-DLC	HM	HM-DLC	HSCO	HSCO-GTS		
Chamfer (TCL) ②	2.5P	2.5P	5P	5P	1P	1P	1P	1P	2P/4P	2P/4P		
Thread depth ③	<2TD	<2TD	<2TD	<2TD	<3TD	<3TD	<3TD	<3TD	<3TD	<3TD		
Hole type ④												
Thread type	M	15-16 (M2-30)	15-16 (M2-30)	24-25 (M2-30)	24-25 (M2-30)	33 (M0.8-1.6)	33 (M0.8-1.6)	33 (M0.8-1.6)	33 (M0.8-1.6)	34 (M2-16)	34 (M2-16)	
	MF	17-19 (MF3-30)	17-19 (MF3-30)	26-28 (MF3-30)	26-28 (MF3-30)					35 (M6-16)	35 (M6-16)	
	UNC	20-21 (No.4-1)	20-21 (No.4-1)	29-30 (No.4-1)	29-30 (No.4-1)							
	UNF	22-23 (No.4-1)	22-23 (No.4-1)	31-32 (No.4-1)	31-32 (No.4-1)							
	G											
	NPT											
	NPTF											
Rc												

ISO Material Group	Subgroup	Workpiece Material	Cutting Speed (Vc m/min) ①									
P	1.1	Low carbon steel (C<0.25%)	-	8~13	-	15~25	-	-	-	-	5~10	8~13
	1.2	Medium carbon steel (C0.25~C0.45%)	5~10	7~12	7~12	10~15	-	-	-	-	3~8	7~10
	1.3	High carbon steel (C>0.45%)	-	6~9	5~10	8~13	-	-	-	-	-	5~8
	1.4	Alloy steel	5~10	7~12	8~13	10~15	-	-	-	-	-	5~8
	1.5	Tool steel	-	6~9	-	7~12	-	-	-	-	-	5~8
	1.6	Cast steel	-	6~11	-	10~15	-	-	-	-	-	-
	1.7	Heat-treatable steel (HRC25~35)	2~4	3~5	-	4~6	-	-	-	-	-	-
M	2.1	Martensitic stainless steel	-	5~8	-	8~13	2~5	3~6	3~7	5~8	3~8	5~10
	2.2	Austenitic stainless steel	-	3~5	-	4~6	1~3	2~4	3~5	4~6	-	-
K	3.1	Grey cast iron	-	-	8~13	10~15	-	-	-	-	-	-
	3.2	Ductile cast iron	5~10	7~12	8~15	10~20	-	-	-	-	-	-
	3.3	Vermicular graphite cast iron	-	-	-	-	-	-	-	-	-	-
	3.4	Malleable cast iron	-	-	-	-	-	-	-	-	-	-
N	4.1	Wrought aluminum alloy	8~18	10~20	10~20	15~25	2~5	3~8	3~8	5~10	8~15	10~20
	4.2	Cast aluminum alloy	8~13	10~15	10~15	15~20	2~5	3~8	3~8	5~10	7~12	10~15
	4.3	Pure copper, low-alloyed copper	5~10	7~12	5~10	7~12	-	-	-	-	5~10	7~12
	4.4	Brass	8~18	10~20	10~18	15~25	-	-	-	-	5~10	7~12
	4.5	Aluminum bronze	5~10	7~12	8~15	10~20	-	-	-	-	-	7~12
	4.6	Magnesium alloy	6~11	8~13	8~13	10~15	-	-	-	-	-	-
	4.7	Zinc alloy	6~11	8~13	8~13	10~15	-	-	-	-	5~10	7~12
S	5.1	Titanium alloy	-	-	-	5~7	-	-	1~2	1~3	-	-
	5.2	Nickel-based alloy	-	-	-	-	-	-	-	-	-	-
	5.3	Duro plastic	-	-	-	-	-	-	-	-	-	-
	5.4	Thermo plastic	7~12	10~15	8~13	10~20	-	-	-	-	-	-
	5.5	Fiber reinforced synthetic materials	-	-	-	-	-	-	-	-	-	-
H	6.1	High tensile strength steel	-	-	-	-	-	-	-	-	-	-
	6.2	Hardened steel	-	-	-	-	-	-	-	-	-	-
	6.3	Hard cast iron	-	-	-	-	-	-	-	-	-	-

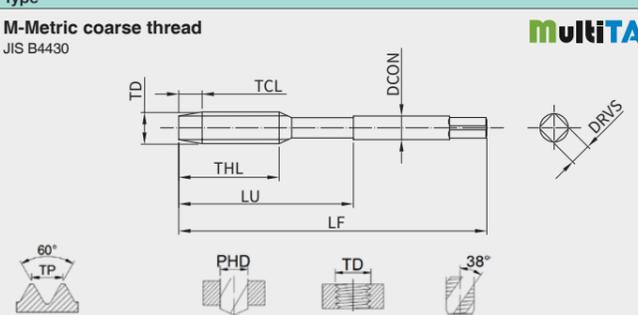
- Technical Information
- Application Index Table
- Selection Guide
- SFT-M
- SFT-MF
- SFT-UNF
- SFT-UNC
- POT-M
- POT-MF
- POT-UNC
- POT-UNF
- NRT-M
- NRT-MF
- Marking Information
- Customized Request

Selection Guide

Steps >>>>>

CONPROFE Machining Application Index Table			MultiTAP												
Explanation:			Type	SFT	SFT-GTS	POT	POT-GTS	NRT	NRT-DLC	NRT	NRT-DLC	NRT	NRT-GTS		
<p>Note①: The cutting speeds (Vc) listed in the respective columns are recommended values which should be adjusted based on specific machining conditions (workpiece material, coolant type, machine type, etc.).</p> <p>- Preferred choice - Alternative choice</p> <p>Note②: Chamfer (TCL): 2.5p means 2.5 times the thread pitch, 5p means 5 times the thread pitch, and so on and so forth.</p> <p>Note③: Thread depth <2TD means the thread depth is less than 2 times the nominal diameter of the thread.</p> <p>Note④: Hole types</p> 			Tool material-coating	HSSE	HSSE-GTS	HSSE	HSSE-GTS	HSPM	HSPM-DLC	HM	HM-DLC	HSCO	HSCO-GTS		
			Chamfer (TCL) ②	2.5P	2.5P	5P	5P	1P	1P	1P	1P	2P/4P	2P/4P		
			Thread depth ③	<2TD	<2TD	<2TD	<2TD	<3TD	<3TD	<3TD	<3TD	<3TD	<3TD		
			Hole type ④												
			Thread type	M	15-16 (M2-30)	15-16 (M2-30)	24-25 (M2-30)	24-25 (M2-30)	33 (M0.8-1.6)	33 (M0.8-1.6)	33 (M0.8-1.6)	33 (M0.8-1.6)	34 (M2-16)	34 (M2-16)	
				MF	17-19 (MF3-30)	17-19 (MF3-30)	26-28 (MF3-30)	26-28 (MF3-30)							
				UNC	20-21 (No.4-1)	20-21 (No.4-1)	29-30 (No.4-1)	29-30 (No.4-1)							
				UNF	22-23 (No.4-1)	22-23 (No.4-1)	31-32 (No.4-1)	31-32 (No.4-1)							
				G											
				NPT											
			NPTF												
			Rc												
ISO Material Group	Subgroup	Workpiece Material	Cutting Speed (Vc m/min) ①												
P	1.1	Low carbon steel (C<0.25%)	-	8-13	-	15-25	-	-	-	-	5-10	8-13			
	1.2	Medium carbon steel (C0.25~C0.45%)	5-10	7-12	7-12	10-15	-	-	-	-	3-8	7-10			
	1.3	High carbon steel (C>0.45%)	-	6-9	5-10	8-13	-	-	-	-	-	5-8			
	1.4	Alloy steel	5-10	7-12	8-13	10-15	-	-	-	-	-	5-8			
	1.5	Tool steel	-	6-9	-	7-12	-	-	-	-	-	5-8			
	1.6	Cast steel	-	6-11	-	10-15	-	-	-	-	-	-			
	1.7	Heat-treatable steel (HRC25-35)	2-4	3-5	-	4-6	-	-	-	-	-	-			
M	2.1	Martensitic stainless steel	-	5-8	-	8-13	2-5	3-6	3-7	5-8	3-8	5-10			
	2.2	Austenitic stainless steel	-	3-5	-	4-6	1-3	2-4	3-5	4-6	-	-			
K	3.1	Grey cast iron	-	-	8-13	10-15	-	-	-	-	-	-			
	3.2	Ductile cast iron	5-10	7-12	8-15	10-20	-	-	-	-	-	-			
	3.3	Vermicular graphite cast iron	-	-	-	-	-	-	-	-	-	-			
	3.4	Malleable cast iron	-	-	-	-	-	-	-	-	-	-			
N	4.1	Wrought aluminum alloy	8-18	10-20	10-20	15-25	2-5	3-8	3-8	5-10	8-15	10-20			
	4.2	Cast aluminum alloy	8-13	10-15	10-15	15-20	2-5	3-8	3-8	5-10	7-12	10-15			
	4.3	Pure copper, low-alloyed copper	5-10	7-12	5-10	7-12	-	-	-	-	5-10	7-12			
	4.4	Brass	8-18	10-20	10-18	15-25	-	-	-	-	5-10	7-12			
	4.5	Aluminum bronze	5-10	7-12	8-15	10-20	-	-	-	-	-	7-12			
	4.6	Magnesium alloy	6-11	8-13	8-13	10-15	-	-	-	-	-	-			
	4.7	Zinc alloy	6-11	8-13	8-13	10-15	-	-	-	-	5-10	7-12			
S	5.1	Titanium alloy	-	-	-	5-7	-	-	1-2	1-3	-	-			
	5.2	Nickel-based alloy	-	-	-	-	-	-	-	-	-	-			
	5.3	Duro plastic	-	-	-	-	-	-	-	-	-	-			
	5.4	Thermo plastic	7-12	10-15	8-13	10-20	-	-	-	-	-	-			
	5.5	Fiber reinforced synthetic materials	-	-	-	-	-	-	-	-	-	-			
H	6.1	High tensile strength steel	-	-	-	-	-	-	-	-	-	-			
	6.2	Hardened steel	-	-	-	-	-	-	-	-	-	-			
	6.3	Hard cast iron	-	-	-	-	-	-	-	-	-	-			

HSSE Spiral Flute Taps (SFT)



Thread tolerance class (TCTR): 6H/JIS2
Thread depth: <2TD
Hole type:
Tool material: HSSE
Surface treatment: Bright
Chamfer (TCL): 2.5P
Tolerance of shank diameter: h9
Rotation direction: RH

CONPROFE

Type	Multi-SFT	Multi-SFT-GTS																											
M-Metric coarse thread JIS B4430																													
Thread tolerance class (TCTR)	6H/JIS2	6H/JIS2																											
Thread depth	<2TD	<2TD																											
Hole type																													
Tool material	HSSE	HSSE																											
Surface treatment	Bright	GTS																											
Chamfer (TCL)	2.5P	2.5P																											
Tolerance of shank diameter	h9	h9																											
Rotation direction	RH	RH																											
Machining application	<table border="1"> <tr><td>P</td><td>1.2</td><td>1.4</td><td>1.7</td></tr> <tr><td>K</td><td>3.2</td><td></td><td></td></tr> <tr><td>N</td><td>4.1-4.7</td><td></td><td></td></tr> <tr><td>S</td><td>5.4</td><td></td><td></td></tr> </table>	P	1.2	1.4	1.7	K	3.2			N	4.1-4.7			S	5.4			<table border="1"> <tr><td>P</td><td>1.1-1.7</td></tr> <tr><td>M</td><td>2.1</td><td>2.2</td></tr> <tr><td>K</td><td>3.2</td></tr> <tr><td>N</td><td>4.1-4.7</td></tr> <tr><td>S</td><td>5.4</td></tr> </table>	P	1.1-1.7	M	2.1	2.2	K	3.2	N	4.1-4.7	S	5.4
P	1.2	1.4	1.7																										
K	3.2																												
N	4.1-4.7																												
S	5.4																												
P	1.1-1.7																												
M	2.1	2.2																											
K	3.2																												
N	4.1-4.7																												
S	5.4																												

TD	TP	Grade	Limit	LF	THL	LU	DCON	DRVS	NOF	PHD	Ordering Code			
M7	1	STD	HZ3	65	12	33	6.2	5	3	6	1.0000573	●	1.0000574	○
M8	1.25	STD	HZ3	70	14	37	6.2	5		6.8	1.0000849	●	1.0000850	●
M8	1.25	STD+1	HZ4							8.5	1.0000883	○	1.0000648	○
M10	1.5	STD	HZ3	75	16	41	7	5.5	8.5	1.0000871	●	1.0000872	●	
M10	1.5	STD+1	HZ4						10.2	1.0000575	○	1.0000576	○	
M12	1.75	STD	HZ4	82	18.5	48	8.5	6.5	10.2	1.0000853	●	1.0000854	●	
M12	1.75	STD+1	HZ5						14	1.0000725	○	1.0000726	○	
M14	2	STD	HZ4	88	20	48	10.5	8	12	1.0000857	●	1.0000858	●	
M16	2	STD	HZ4	95	20	52	12.5	10	14	1.0000859	●	1.0000860	●	
M18	2.5	STD	HZ4	100	25	55	14	11	15.5	1.0000655	●	1.0000656	●	
M20	2.5	STD	HZ4	105	25	58	15	12	17.5	1.0000657	●	1.0000658	●	
M22	2.5	STD	HZ4	115	27	63	17	13	19.5	1.0000659	●	1.0000660	●	
M24	3	STD	HZ5	120	30	66	19	15	21	1.0000661	●	1.0000662	●	
M27	3	STD	HZ5	130	30	71	20	15	24	1.0000663	●	1.0000664	●	
M30	3.5	STD	HZ5	135	35	74	23	17	26.5	1.0000665	●	1.0000666	●	

① STD in the Grade column indicates the recommended Limit of the tap.
② Spiral flute taps in size larger than M6 has no point.
③ The Ordering Code column: ● Standard stock item; ○ Stock inquiry required
④ See Page 36 for tap marking style.

1. Locate the workpiece material and select the cutting speed in the Machining Application Index Table.
2. Select a suitable tap type according to tool material-coating, chamfer, thread depth, hole type, etc.
3. Find the page based on the selected tap type and thread type.
4. Select the tap specification in the corresponding page.
5. Determine the thread size and limit and mark down the Ordering Code.

Example:

● Standard stock item
Specification: M14-HZ4 2P SFT HSSE
Ordering Code: 1.0000857

Type	Multi-SFT	Multi-SFT-GTS
M-Metric coarse thread JIS B4430 		
Thread tolerance class (TCTR)	6H/JIS2	6H/JIS2
Thread depth	<2TD	<2TD
Hole type		
Tool material	HSSE	HSSE
Surface treatment	Bright	GTS
Chamfer (TCL)	2.5P	2.5P
Tolerance of shank diameter	h9	h9
Rotation direction	RH	RH
Machining application	P 1.2 1.4 1.7 K 3.2 N 4.1-4.7 S 5.4	P 1.1-1.7 M 2.1 2.2 K 3.2 N 4.1-4.7 S 5.4

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TD	TP	Grade	Limit	LF	THL	LU	DCON	DRVS	NOF	PHD	Ordering Code				
M2*	0.4	STD	HZ1	40	4.5	15	3	2.5	2	1.6	1.0000865	●	1.0000866	○	
M2.2*	0.45	STD	HZ2	42	5	16	3	2.5		1.75	1.0000643	●	1.0000644	○	
M2.5*	0.45	STD	HZ2	44	5	16	3	2.5		2.05	1.0000874	●	1.0000723	○	
M3*	0.5	STD	HZ2	46	6	19	4	3.2	3	2.5	1.0000894	●	1.0000495	●	
M3*	0.5	STD+1	HZ3								1.0000496	○	1.0000566	○	
M3*	0.5	STD+2	HZ4								1.0000497	○	1.0000567	○	
M3.5	0.6	STD	HZ2	48	7	20	4	3.2		2.9	1.0000873	●	1.0000568	○	
M4	0.7	STD	HZ2	52	7.5	21	5	4		3	3.3	1.0000863	●	1.0000864	●
M4	0.7	STD+1	HZ3									1.0000847	○	1.0000848	○
M4	0.7	STD+2	HZ4						1.0000867			○	1.0000569	○	
M4.5	0.75	STD	HZ2	55	8	21	5	4	3	3.7	1.0000645	●	1.0000646	●	
M5	0.8	STD	HZ2	60	8.5	24	5.5	4.5			4.2	1.0000861	●	1.0000862	●
M5	0.8	STD+1	HZ3									1.0000868	○	1.0000570	○
M5	0.8	STD+2	HZ4						1.0000869	○		1.0000571	○		
M6	1	STD-1	HZ2	62	11	29	6	4.5	5	5	1.0000884	○	1.0000885	○	
M6	1	STD	HZ3								1.0000886	●	1.0000887	●	
M6	1	STD+1	HZ4								1.0000870	○	1.0000572	○	

- ① STD in the Grade column indicates the recommended Limit of the tap.
- ② Spiral flute taps in size larger than M6 have no point.
- ③ The Ordering Code column: ● Standard stock item; ○ Stock inquiry required
- ④ See Page 36 for tap marking style.
- ⑤ The helix angle of spiral flute taps in size M3 and smaller is 40° or above.

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Type	Multi-SFT	Multi-SFT-GTS
M-Metric coarse thread JIS B4430 		
Thread tolerance class (TCTR)	6H/JIS2	6H/JIS2
Thread depth	<2TD	<2TD
Hole type		
Tool material	HSSE	HSSE
Surface treatment	Bright	GTS
Chamfer (TCL)	2.5P	2.5P
Tolerance of shank diameter	h9	h9
Rotation direction	RH	RH
Machining application	P 1.2 1.4 1.7 K 3.2 N 4.1-4.7 S 5.4	P 1.1-1.7 M 2.1 2.2 K 3.2 N 4.1-4.7 S 5.4

TD	TP	Grade	Limit	LF	THL	LU	DCON	DRVS	NOF	PHD	Ordering Code			
M7	1	STD	HZ3	65	12	33	6.2	5	3	6	1.0000573	●	1.0000574	○
M8	1.25	STD	HZ3	70	14	37	6.2	5		6.8	1.0000849	●	1.0000850	●
M8	1.25	STD+1	HZ4								1.0000883	○	1.0000648	○
M10	1.5	STD	HZ3	75	16	41	7	5.5		8.5	1.0000871	●	1.0000872	●
M10	1.5	STD+1	HZ4								1.0000575	○	1.0000576	○
M12	1.75	STD	HZ4	82	18.5	48	8.5	6.5		10.2	1.0000853	●	1.0000854	●
M12	1.75	STD+1	HZ5								1.0000725	○	1.0000726	○
M14	2	STD	HZ4	88	20	48	10.5	8		12	1.0000857	●	1.0000858	●
M16	2	STD	HZ4	95	20	52	12.5	10	14	1.0000859	●	1.0000860	●	
M18	2.5	STD	HZ4	100	25	55	14	11	15.5	1.0000655	●	1.0000656	●	
M20	2.5	STD	HZ4	105	25	58	15	12	17.5	1.0000657	●	1.0000658	●	
M22	2.5	STD	HZ4	115	27	63	17	13	19.5	1.0000659	●	1.0000660	●	
M24	3	STD	HZ5	120	30	66	19	15	21	1.0000661	●	1.0000662	●	
M27	3	STD	HZ5	130	30	71	20	15	24	1.0000663	●	1.0000664	●	
M30	3.5	STD	HZ5	135	35	74	23	17	26.5	1.0000665	●	1.0000666	●	

- ① STD in the Grade column indicates the recommended Limit of the tap.
- ② Spiral flute taps in size larger than M6 have no point.
- ③ The Ordering Code column: ● Standard stock item; ○ Stock inquiry required
- ④ See Page 36 for tap marking style.

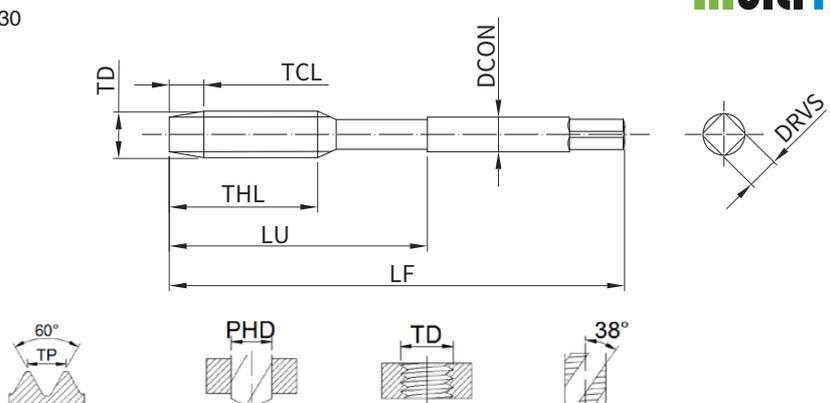
Type	Multi-SFT	Multi-SFT-GTS
MF-Metric fine thread JIS B4430 		
Thread tolerance class (TCTR)	6H/JIS2	6H/JIS2
Thread depth	<2TD	<2TD
Hole type		
Tool material	HSSE	HSSE
Surface treatment	Bright	GTS
Chamfer (TCL)	2.5P	2.5P
Tolerance of shank diameter	h9	h9
Rotation direction	RH	RH
Machining application	P 1.2 1.4 1.7 K 3.2 N 4.1-4.7 S 5.4	P 1.1-1.7 M 2.1 2.2 K 3.2 N 4.1-4.7 S 5.4

TD	TP	Grade	Limit	LF	THL	LU	DCON	DRVS	NOF	PHD	Ordering Code			
M3*	0.35	STD	HZ1	46	4	19	4	3.2	3	2.65	1.0000577	●	1.0000578	○
M3.5	0.35	STD	HZ1	48	4	20	4	3.2		3.15	1.0000653	●	1.0000654	○
M4	0.5	STD	HZ2	52	5	21	5	4		3.5	1.0000882	●	1.0000580	○
M5	0.5	STD	HZ2	60	5	24	5.5	4.5		4.5	1.0000875	●	1.0000581	○
M6	0.75	STD	HZ2	62	8	29	6	4.5		5.2	1.0000876	●	1.0000582	○

- ① STD in the Grade column indicates the recommended Limit of the tap.
- ② Spiral flute taps in size larger than M6 have no point.
- ③ The Ordering Code column: ● Standard stock item; ○ Stock inquiry required
- ④ See Page 36 for tap marking style.
- ⑤ The helix angle of spiral flute taps in size M3 and smaller is 40° or above.

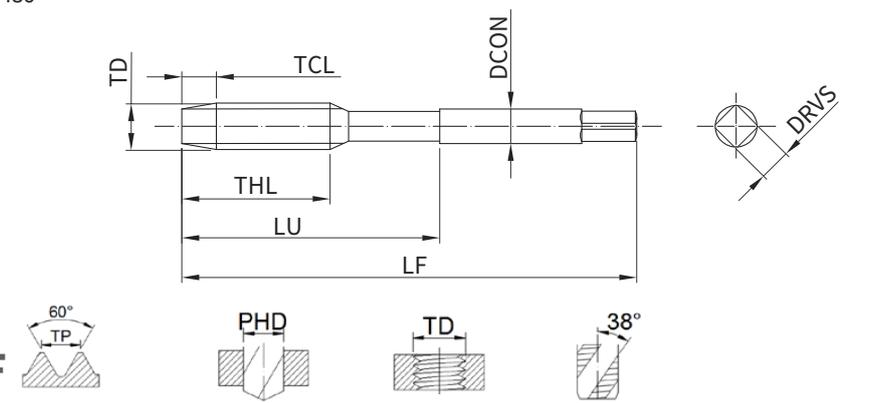
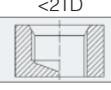
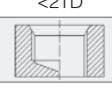
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Type	Multi-SFT	Multi-SFT-GTS
MF-Metric fine thread JIS B4430 		
Thread tolerance class (TCTR)	6H/JIS2	6H/JIS2
Thread depth	<2TD	<2TD
Hole type		
Tool material	HSSE	HSSE
Surface treatment	Bright	GTS
Chamfer (TCL)	2.5P	2.5P
Tolerance of shank diameter	h9	h9
Rotation direction	RH	RH
Machining application	P 1.2 1.4 1.7 K 3.2 N 4.1-4.7 S 5.4	P 1.1-1.7 M 2.1 2.2 K 3.2 N 4.1-4.7 S 5.4

TD	TP	Grade	Limit	LF	THL	LU	DCON	DRVS	NOF	PHD	Ordering Code			
M7	0.75	STD	HZ2	65	8	33	6.2	5	3	6.2	1.0000583	○	1.0000584	○
M8	0.75	STD	HZ2	70	11	37	6.2	5		7.2	1.0000649	●	1.0000650	○
M8	1	STD	HZ3		11	41				7	5.5	7	1.0000877	●	1.0000585	○
M10	0.75	STD	HZ2	75	11	41	7	6.5		9.2	1.0000651	●	1.0000652	○
M10	1	STD	HZ3							14	8.8	1.0000851	●	1.0000852
M10	1.25	STD	HZ3		11					11	1.0000687	●	1.0000688	○
M12	1	STD	HZ3	82	15	48	8.5	6.5		10.8	1.0000689	●	1.0000690	○
M12	1.25	STD	HZ3							11	10.5	1.0000855	●	1.0000856
M12	1.5	STD	HZ3		15					13	1.0000691	●	1.0000692	○
M14	1	STD	HZ3	88	15	48	10.5	8		12.8	1.0000693	●	1.0000694	○
M14	1.25	STD	HZ3							11	12.5	1.0000626	●	1.0000627
M14	1.5	STD	HZ3		15					15	1.0000695	●	1.0000696	○
M16	1	STD	HZ3	95	11	52	12.5	10		14.5	1.0000697	●	1.0000698	○
M16	1.5	STD	HZ3							15	14.5	1.0000697	●	1.0000698

- ① STD in the Grade column indicates the recommended Limit of the tap.
- ② Spiral flute taps in size larger than M6 have no point.
- ③ The Ordering Code column: ● Standard stock item; ○ Stock inquiry required
- ④ See Page 36 for tap marking style.

Type	Multi-SFT	Multi-SFT-GTS
MF-Metric fine thread JIS B4430 		
Thread tolerance class (TCTR)	6H/JIS2	6H/JIS2
Thread depth	<2TD	<2TD
Hole type		
Tool material	HSSE	HSSE
Surface treatment	Bright	GTS
Chamfer (TCL)	2.5P	2.5P
Tolerance of shank diameter	h9	h9
Rotation direction	RH	RH
Machining application	P 1.2 1.4 1.7 K 3.2 N 4.1-4.7 S 5.4	P 1.1-1.7 M 2.1 2.2 K 3.2 N 4.1-4.7 S 5.4

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TD	TP	Grade	Limit	LF	THL	LU	DCON	DRVS	NOF	PHD	Ordering Code			
M18	1.5	STD	HZ4	100	16	55	14	11	4	16.5	1.0000699	●	1.0000700	○
M18	2	STD	HZ4		20					16	1.0000701	●	1.0000702	○
M20	1.5	STD	HZ4	105	16	58	15	12		18.5	1.0000703	●	1.0000704	○
M20	2	STD	HZ4		20					18	1.0000705	●	1.0000706	○
M22	1.5	STD	HZ4	115	16	63	17	13		20.5	1.0000707	●	1.0000708	○
M22	2	STD	HZ4		20					20	1.0000709	●	1.0000710	○
M24	1.5	STD	HZ4	120	17	66	19	15		22.5	1.0000711	●	1.0000712	○
M24	2	STD	HZ4		20					22	1.0000713	●	1.0000714	○
M27	1.5	STD	HZ4	130	17	71	20	15		25.5	1.0000715	●	1.0000716	○
M27	2	STD	HZ4		20					25	1.0000717	●	1.0000718	○
M30	1.5	STD	HZ4	135	18	74	23	17		28.5	1.0000719	●	1.0000720	○
M30	2	STD	HZ4		22					28	1.0000721	●	1.0000722	○

- ① STD in the Grade column indicates the recommended Limit of the tap.
- ② Spiral flute taps in size larger than M6 have no point.
- ③ The Ordering Code column: ● Standard stock item; ○ Stock inquiry required
- ④ See Page 36 for tap marking style.

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Type	Multi-SFT	Multi-SFT-GTS																		
<p>American unified coarse thread UNC, ANSI B-1.1</p>																				
Thread tolerance class (TCTR)	6H/JIS2	6H/JIS2																		
Thread depth	<2TD	<2TD																		
Hole type																				
Tool material	HSSE	HSSE																		
Surface treatment	Bright	GTS																		
Chamfer (TCL)	2.5P	2.5P																		
Tolerance of shank diameter	h9	h9																		
Rotation direction	RH	RH																		
Machining application	<table border="0"> <tr><td>P</td><td>1.2 1.4 1.7</td></tr> <tr><td>K</td><td>3.2</td></tr> <tr><td>N</td><td>4.1-4.7</td></tr> <tr><td>S</td><td>5.4</td></tr> </table>	P	1.2 1.4 1.7	K	3.2	N	4.1-4.7	S	5.4	<table border="0"> <tr><td>P</td><td>1.1-1.7</td></tr> <tr><td>M</td><td>2.1 2.2</td></tr> <tr><td>K</td><td>3.2</td></tr> <tr><td>N</td><td>4.1-4.7</td></tr> <tr><td>S</td><td>5.4</td></tr> </table>	P	1.1-1.7	M	2.1 2.2	K	3.2	N	4.1-4.7	S	5.4
P	1.2 1.4 1.7																			
K	3.2																			
N	4.1-4.7																			
S	5.4																			
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M	2.1 2.2																			
K	3.2																			
N	4.1-4.7																			
S	5.4																			

TD	TPI	Grade	Limit	LF	THL	LU	DCON	DRVS	NOF	PHD	Ordering Code			
NO.4*	40	STD	HZ2	44	7	17	3	2.5	2	2.35	1.0000514	●	1.0000589	○
NO.5*	40	STD	HZ2	46	7	19	4	3.2	3	2.65	1.0000590	●	1.0000591	○
NO.6*	32	STD	HZ2	48	8	21	4	3.2		2.85	1.0000515	●	1.0000592	○
NO.8	32	STD	HZ2	52	8	21	5	4		3.5	1.0000516	●	1.0000593	○
NO.10	24	STD	HZ2	60	11	24	5.5	4.5		3.9	1.0000530	●	1.0000594	○
NO.12	24	STD	HZ2	60	11	25	5.5	4.5		4.5	1.0000595	●	1.0000596	○
1/4	20	STD	HZ2	62	13	29	6	4.5		5.1	1.0000879	●	1.0000597	○

- ① STD in the Grade column indicates the recommended Limit of the tap.
- ② Spiral flute taps in size larger than 1/4 have no point.
- ③ The Ordering Code column: ● Standard stock item; ○ Stock inquiry required
- ④ See Page 36 for tap marking style.
- ⑤ The helix angle of spiral flute taps in size No.6 and smaller is 40° or above.

Type	Multi-SFT	Multi-SFT-GTS
American unified coarse thread UNC, ANSI B-1.1 		
Thread tolerance class (TCTR)	6H/JIS2	6H/JIS2
Thread depth	<2TD	<2TD
Hole type		
Tool material	HSSE	HSSE
Surface treatment	Bright	GTS
Chamfer (TCL)	2.5P	2.5P
Tolerance of shank diameter	h9	h9
Rotation direction	RH	RH
Machining application	P 1.2 1.4 1.7 K 3.2 N 4.1-4.7 S 5.4	P 1.1-1.7 M 2.1 2.2 K 3.2 N 4.1-4.7 S 5.4

TD	TPI	Grade	Limit	LF	THL	LU	DCON	DRVS	NOF	PHD	Ordering Code			
5/16	18	STD	HZ3	70	14	37	6.1	5	3	6.6	1.0000881	●	1.0000598	○
3/8	16	STD	HZ3	75	16	41	7	5.5		8	1.0000599	●	1.0000600	○
7/16	14	STD	HZ3	80	18	48	8	6		9.4	1.0000601	●	1.0000602	○
1/2	13	STD	HZ4	85	20	48	9	7		10.8	1.0000603	●	1.0000604	○
9/16	12	STD	HZ4	90	21	48	10.5	8		12.2	1.0000667	●	1.0000668	○
5/8	11	STD	HZ4	95	24	52	12	9		13.5	1.0000669	●	1.0000670	○
3/4	10	STD	HZ4	105	25	58	14	11	4	16.5	1.0000671	●	1.0000672	○
7/8	9	STD	HZ4	115	28	63	17	13		19.5	1.0000673	●	1.0000674	○
1	8	STD	HZ5	125	32	68	20	15		22.25	1.0000675	●	1.0000676	○

- ① STD in the Grade column indicates the recommended Limit of the tap.
- ② Spiral flute taps in size larger than 1/4 have no point.
- ③ The Ordering Code column: ● Standard stock item; ○ Stock inquiry required
- ④ See Page 36 for tap marking style.

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Type	Multi-SFT	Multi-SFT-GTS																		
<p>American unified fine thread UNF, ANSI B-1.1</p>																				
Thread tolerance class (TCTR)	6H/JIS2	6H/JIS2																		
Thread depth	<2TD	<2TD																		
Hole type																				
Tool material	HSSE	HSSE																		
Surface treatment	Bright	GTS																		
Chamfer (TCL)	2.5P	2.5P																		
Tolerance of shank diameter	h9	h9																		
Rotation direction	RH	RH																		
Machining application	<table border="0"> <tr><td>P</td><td>1.2 1.4 1.7</td></tr> <tr><td>K</td><td>3.2</td></tr> <tr><td>N</td><td>4.1-4.7</td></tr> <tr><td>S</td><td>5.4</td></tr> </table>	P	1.2 1.4 1.7	K	3.2	N	4.1-4.7	S	5.4	<table border="0"> <tr><td>P</td><td>1.1-1.7</td></tr> <tr><td>M</td><td>2.1 2.2</td></tr> <tr><td>K</td><td>3.2</td></tr> <tr><td>N</td><td>4.1-4.7</td></tr> <tr><td>S</td><td>5.4</td></tr> </table>	P	1.1-1.7	M	2.1 2.2	K	3.2	N	4.1-4.7	S	5.4
P	1.2 1.4 1.7																			
K	3.2																			
N	4.1-4.7																			
S	5.4																			
P	1.1-1.7																			
M	2.1 2.2																			
K	3.2																			
N	4.1-4.7																			
S	5.4																			

TD	TPI	Grade	Limit	LF	THL	LU	DCON	DRVS	NOF	PHD	Ordering Code			
NO.4*	48	STD	HZ2	44	5.5	17	3	2.5	2	2.4	1.0000605	○	1.0000606	○
NO.5*	44	STD	HZ2	46	6	19	4	3.2		2.7	1.0000607	○	1.0000608	○
NO.6*	40	STD	HZ2	48	6.5	21	4	3.2	3	2.95	1.0000609	○	1.0000610	○
NO.8	36	STD	HZ2	52	7	21	5	4		3.5	1.0000611	○	1.0000612	○
NO.10	32	STD	HZ2	60	8.5	24	5.5	4.5		4.1	1.0000531	●	1.0000613	○
NO.12	28	STD	HZ2	60	9	25	5.5	4.5		4.6	1.0000614	●	1.0000615	○
1/4	28	STD	HZ2	62	9	29	6	4.5		5.5	1.0000880	●	1.0000616	○

- ① STD in the Grade column indicates the recommended Limit of the tap.
- ② Spiral flute taps in size larger than 1/4 have no point.
- ③ The Ordering Code column: ● Standard stock item; ○ Stock inquiry required
- ④ See Page 36 for tap marking style.
- ⑤ The helix angle of spiral flute taps in size No.6 and smaller is 40° or above.

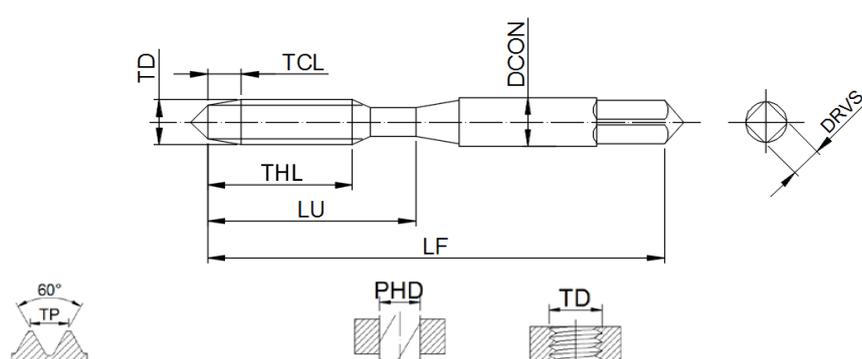
Type	Multi-SFT	Multi-SFT-GTS
American unified fine thread UNF, ANSI B-1.1 		
Thread tolerance class (TCTR)	6H/JIS2	6H/JIS2
Thread depth	<2TD	<2TD
Hole type		
Tool material	HSSE	HSSE
Surface treatment	Bright	GTS
Chamfer (TCL)	2.5P	2.5P
Tolerance of shank diameter	h9	h9
Rotation direction	RH	RH
Machining application	P 1.2 1.4 1.7 K 3.2 N 4.1-4.7 S 5.4	P 1.1-1.7 M 2.1 2.2 K 3.2 N 4.1-4.7 S 5.4

TD	TPI	Grade	Limit	LF	THL	LU	DCON	DRVS	NOF	PHD	Ordering Code			
5/16	24	STD	HZ3	70	11	37	6.1	5	3	6.9	1.0000733	●	1.0000617	○
3/8	24	STD	HZ3	75	11	41	7	5.5		8.5	1.0000618	●	1.0000619	○
7/16	20	STD	HZ3	80	13	48	8	6		9.9	1.0000620	●	1.0000621	○
1/2	20	STD	HZ3	85	13	48	9	7		11.5	1.0000622	●	1.0000623	○
9/16	18	STD	HZ3	90	14	48	10.5	8		12.9	1.0000677	●	1.0000678	○
5/8	18	STD	HZ3	95	15	52	12	9		14.5	1.0000679	●	1.0000680	○
3/4	16	STD	HZ3	105	16	58	14	11	4	17.5	1.0000681	●	1.0000682	○
7/8	14	STD	HZ4	115	19	63	17	13		20.4	1.0000683	●	1.0000684	○
1	12	STD	HZ4	125	22	68	20	15		23.25	1.0000685	●	1.0000686	○

- ① STD in the Grade column indicates the recommended Limit of the tap.
- ② Spiral flute taps in size larger than 1/4 have no point.
- ③ The Ordering Code column: ● Standard stock item; ○ Stock inquiry required
- ④ See Page 36 for tap marking style.

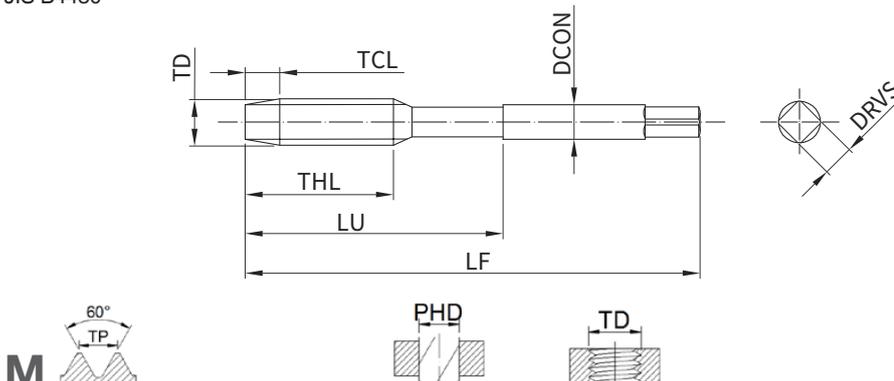
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Type	Multi-POT	Multi-POT-GTS
M-Metric coarse thread JIS B4430 		
Thread tolerance class (TCTR)	6H/JIS2	6H/JIS2
Thread depth	<2TD	<2TD
Hole type		
Tool material	HSSE	HSSE
Surface treatment	Bright	GTS
Chamfer (TCL)	5P	5P
Tolerance of shank diameter	h9	h9
Rotation direction	RH	RH
Machining application	P 1.2-1.4 K 3.1 3.2 N 4.1-4.7 S 5.4	P 1.1-1.7 M 2.1 2.2 K 3.1 3.2 N 4.1-4.7 S 5.1 5.4

TD	TP	Grade	Limit	LF	THL	LU	DCON	DRVS	NOF	PHD	Ordering Code				
M2	0.4	STD	HZ1	40	8	15	3	2.5	2	1.6	4.0000596	●	4.0000379	○	
M2.2	0.45	STD	HZ2	42	9	16	3	2.5		1.75	4.0000380	●	4.0000381	○	
M2.5	0.45	STD	HZ2	44	9	16	3	2.5		2.05	4.0000593	●	4.0000460	○	
M3	0.5	STD	HZ2	46	10	19	4	3.2	3	2.5	4.0000575	●	4.0000557	●	
M3	0.5	STD+1	HZ3								4.0000580	○	4.0000308	○	
M3	0.5	STD+2	HZ4								4.0000551	○	4.0000309	○	
M3.5	0.6	STD	HZ2	48	11	20	4	3.2		2.9	4.0000310	○	4.0000311	○	
M4	0.7	STD	HZ2	52	12	21	5	4		3	3.3	4.0000576	●	4.0000558	●
M4	0.7	STD+1	HZ3									4.0000581	○	4.0000312	○
M4	0.7	STD+2	HZ4						4.0000552			○	4.0000594	○	
M4.5	0.75	STD	HZ2	55	13	21	5	4	3.7		4.0000382	●	4.0000383	●	
M5	0.8	STD	HZ2	60	14	24	5.5	4.5	3		4.2	4.0000577	●	4.0000559	●
M5	0.8	STD+1	HZ3									4.0000582	○	4.0000579	○
M5	0.8	STD+2	HZ4							4.0000553		○	4.0000315	○	
M6	1	STD-1	HZ2	62	16	29	6	4.5		3	5	4.0000578	○	4.0000560	○
M6	1	STD	HZ3									4.0000583	●	4.0000313	●
M6	1	STD+1	HZ4									4.0000554	○	4.0000316	○
M7	1	STD	HZ3	65	16	33	6.2	5	6		4.0000317	●	4.0000318	○	

- ① STD in the Grade column indicates the recommended Limit of the tap.
- ② Spiral pointed taps in size larger than M8 have no point (M8 POT has only one point, on its thread end).
- ③ The Ordering Code column: ● Standard stock item; ○ Stock inquiry required
- ④ See Page 36 for tap marking style.

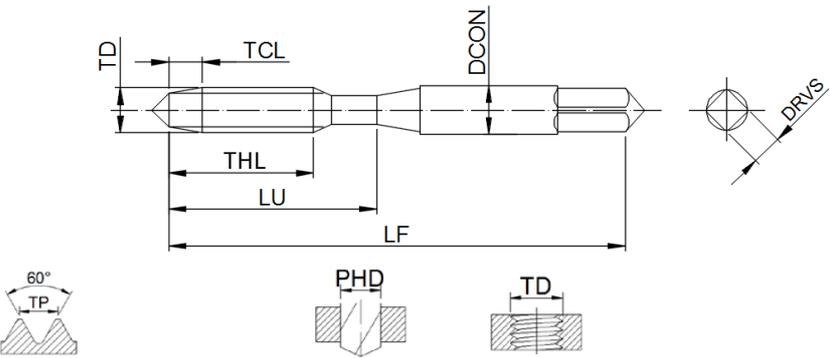
Type	Multi-POT	Multi-POT-GTS
M-Metric coarse thread JIS B4430 		
Thread tolerance class (TCTR)	6H/JIS2	6H/JIS2
Thread depth	<2TD	<2TD
Hole type		
Tool material	HSSE	HSSE
Surface treatment	Bright	GTS
Chamfer (TCL)	5P	5P
Tolerance of shank diameter	h9	h9
Rotation direction	RH	RH
Machining application	P 1.2-1.4 K 3.1 3.2 N 4.1-4.7 S 5.4	P 1.1-1.7 M 2.1 2.2 K 3.1 3.2 N 4.1-4.7 S 5.1 5.4

TD	TP	Grade	Limit	LF	THL	LU	DCON	DRVS	NOF	PHD	Ordering Code			
M8	1.25	STD	HZ3	70	17	37	6.2	5	3	6.8	4.0000555	●	4.0000561	●
M8	1.25	STD+1	HZ4								4.0000319	○	4.0000320	○
M10	1.5	STD	HZ3	75	20	41	7	5.5		8.5	4.0000556	●	4.0000562	●
M10	1.5	STD+1	HZ4								4.0000322	○	4.0000323	○
M12	1.75	STD	HZ4	82	24	48	8.5	6.5		10.2	4.0000571	●	4.0000564	●
M12	1.75	STD+1	HZ5								4.0000325	○	4.0000326	○
M14	2	STD	HZ4	88	26	48	10.5	8		12	4.0000573	●	4.0000566	●
M16	2	STD	HZ4								95	26	52	12.5	10	14	4.0000574	●	4.0000569	●
M18	2.5	STD	HZ4	100	30	55	14	11		15.5	4.0000384	●	4.0000385	●
M20	2.5	STD	HZ4								105	30	58	15	12	17.5	4.0000595	●	4.0000387	●
M22	2.5	STD	HZ4	115	30	63	17	14		19.5	4.0000388	●	4.0000389	●
M24	3	STD	HZ5								120	36	66	19	15	21	4.0000390	●	4.0000391	●
M27	3	STD	HZ5	130	36	71	20	15		24	4.0000392	●	4.0000393	●
M30	3.5	STD	HZ5								135	42	74	23

- ① STD in the Grade column indicates the recommended Limit of the tap.
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- ③ The Ordering Code column: ● Standard stock item; ○ Stock inquiry required
- ④ See Page 36 for tap marking style.

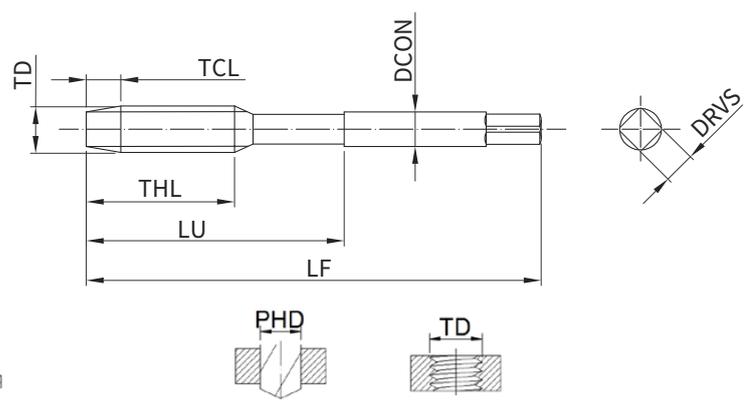
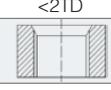
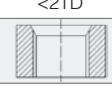
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Type	Multi-POT	Multi-POT-GTS
MF-Metric fine thread JIS B4430  		
Thread tolerance class (TCTR)	6H/JIS2	6H/JIS2
Thread depth	<2TD	<2TD
Hole type		
Tool material	HSSE	HSSE
Surface treatment	Bright	GTS
Chamfer (TCL)	5P	5P
Tolerance of shank diameter	h9	h9
Rotation direction	RH	RH
Machining application	P 1.2-1.4 K 3.1 3.2 N 4.1-4.7 S 5.4	P 1.1-1.7 M 2.1 2.2 K 3.1 3.2 N 4.1-4.7 S 5.1 5.4

TD	TP	Grade	Limit	LF	THL	LU	DCON	DRVS	NOF	PHD	Ordering Code			
M3	0.35	STD	HZ1	46	8	19	4	3.2	3	2.65	4.0000328	●	4.0000329	○
M3.5	0.35	STD	HZ1	48	8	20	4	3.2		3.15	4.0000396	●	4.0000397	○
M4	0.5	STD	HZ2	52	10	21	5	4		3.5	4.0000330	●	4.0000331	○
M5	0.5	STD	HZ2	60	10	24	5.5	4.5		4.5	4.0000332	●	4.0000333	○
M6	0.75	STD	HZ2	62	13	29	6	4.5		5.2	4.0000334	●	4.0000335	○
M7	0.75	STD	HZ2	65	13	33	6.2	5		6.2	4.0000336	○	4.0000337	○

- ① STD in the Grade column indicates the recommended Limit of the tap.
- ② Spiral pointed taps in size larger than M8 have no point (M8 POT has only one point, on its thread end).
- ③ The Ordering Code column: ● Standard stock item; ○ Stock inquiry required
- ④ See Page 36 for tap marking style.

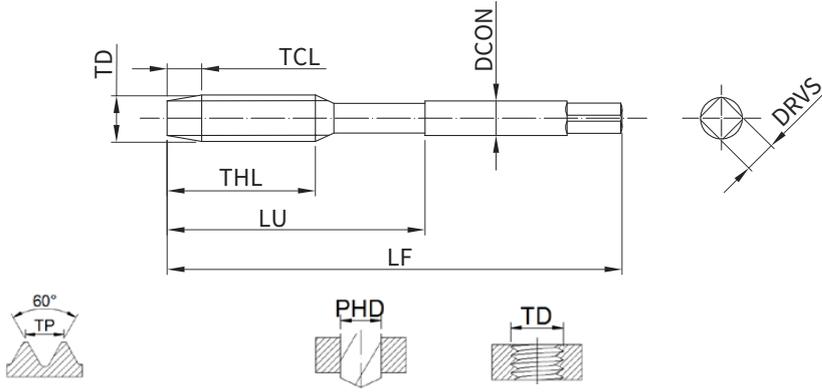
Type	Multi-POT	Multi-POT-GTS
MF-Metric fine thread JIS B4430 		
Thread tolerance class (TCTR)	6H/JIS2	6H/JIS2
Thread depth	<2TD	<2TD
Hole type		
Tool material	HSSE	HSSE
Surface treatment	Bright	GTS
Chamfer (TCL)	5P	5P
Tolerance of shank diameter	h9	h9
Rotation direction	RH	RH
Machining application	P 1.2-1.4 K 3.1 3.2 N 4.1-4.7 S 5.4	P 1.1-1.7 M 2.1 2.2 K 3.1 3.2 N 4.1-4.7 S 5.1 5.4

TD	TP	Grade	Limit	LF	THL	LU	DCON	DRVS	NOF	PHD	Ordering Code			
M8	0.75	STD	HZ2	70	13	37	6.2	5	3	7.2	4.0000418	●	4.0000419	○
M8	1	STD	HZ3		16					7	4.0000338	●	4.0000341	○
M10	0.75	STD	HZ2	75	13	41	7	5.5		9.2	4.0000420	●	4.0000421	○
M10	1	STD	HZ3		16					8.8	4.0000422	●	4.0000423	○
M10	1.25	STD	HZ3		20					11	4.0000570	●	4.0000563	○
M12	1	STD	HZ3	82	20	48	8.5	6.5		10.8	4.0000424	●	4.0000425	○
M12	1.25	STD	HZ3							10.5	4.0000426	●	4.0000427	○
M12	1.5	STD	HZ3							13	4.0000572	●	4.0000565	○
M14	1	STD	HZ3							88	20	48	10.5	8	12.8	4.0000428	●	4.0000429	○
M14	1.25	STD	HZ3	12.5	4.0000430	●	4.0000431	○						
M14	1.5	STD	HZ3	15	4.0000567	●	4.0000568	○						
M16	1	STD	HZ3	95	22	52	12.5	10	14.5						4.0000432	●	4.0000433	○
M16	1.5	STD	HZ3						14.5	4.0000434	●	4.0000435	○	

- ① STD in the Grade column indicates the recommended Limit of the tap.
- ② Spiral pointed taps in size larger than M8 have no point (M8 POT has only one point, on its thread end).
- ③ The Ordering Code column: ● Standard stock item; ○ Stock inquiry required
- ④ See Page 36 for tap marking style.

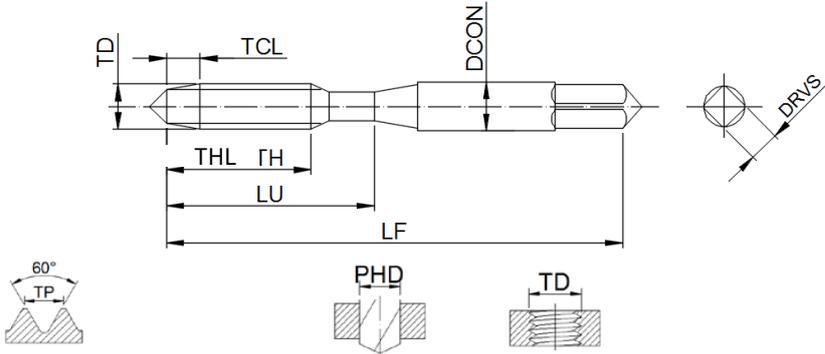
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Type	Multi-POT	Multi-POT-GTS																		
MF-Metric fine thread JIS B4430 																				
Thread tolerance class (TCTR)	6H/JIS2	6H/JIS2																		
Thread depth	<2TD	<2TD																		
Hole type																				
Tool material	HSSE	HSSE																		
Surface treatment	Bright	GTS																		
Chamfer (TCL)	5P	5P																		
Tolerance of shank diameter	h9	h9																		
Rotation direction	RH	RH																		
Machining application	<table border="1"> <tr><td>P</td><td>1.2-1.4</td></tr> <tr><td>K</td><td>3.1 3.2</td></tr> <tr><td>N</td><td>4.1-4.7</td></tr> <tr><td>S</td><td>5.4</td></tr> </table>	P	1.2-1.4	K	3.1 3.2	N	4.1-4.7	S	5.4	<table border="1"> <tr><td>P</td><td>1.1-1.7</td></tr> <tr><td>M</td><td>2.1 2.2</td></tr> <tr><td>K</td><td>3.1 3.2</td></tr> <tr><td>N</td><td>4.1-4.7</td></tr> <tr><td>S</td><td>5.1 5.4</td></tr> </table>	P	1.1-1.7	M	2.1 2.2	K	3.1 3.2	N	4.1-4.7	S	5.1 5.4
P	1.2-1.4																			
K	3.1 3.2																			
N	4.1-4.7																			
S	5.4																			
P	1.1-1.7																			
M	2.1 2.2																			
K	3.1 3.2																			
N	4.1-4.7																			
S	5.1 5.4																			

TD	TP	Grade	Limit	LF	THL	LU	DCON	DRVS	NOF	PHD	Ordering Code			
M18	1.5	STD	HZ4	100	25	55	14	11	3	16.5	4.0000436	●	4.0000437	○
M18	2	STD	HZ4								4.0000438	●	4.0000439	○
M20	1.5	STD	HZ4	105	25	58	15	12		18.5	4.0000440	●	4.0000441	○
M20	2	STD	HZ4								4.0000442	●	4.0000443	○
M22	1.5	STD	HZ4	115	25	63	17	14		20.5	4.0000444	●	4.0000445	○
M22	2	STD	HZ4								4.0000446	●	4.0000447	○
M24	1.5	STD	HZ4	120	28	66	19	15		22.5	4.0000448	●	4.0000449	○
M24	2	STD	HZ4								4.0000450	●	4.0000451	○
M27	1.5	STD	HZ4	130	28	71	20	15		25.5	4.0000452	●	4.0000453	○
M27	2	STD	HZ4								4.0000454	●	4.0000455	○
M30	1.5	STD	HZ4	135	31	74	23	17		28.5	4.0000456	●	4.0000457	○
M30	2	STD	HZ4								4.0000458	●	4.0000459	○

- ① STD in the Grade column indicates the recommended Limit of the tap.
- ② Spiral pointed taps in size larger than M8 have no point (M8 POT has only one point, on its thread end).
- ③ The Ordering Code column: ● Standard stock item; ○ Stock inquiry required
- ④ See Page 36 for tap marking style.

Type		Multi-POT	Multi-POT-GTS
American unified coarse thread UNC, ANSI B-1.1 			
Thread tolerance class (TCTR)		6H/JIS2	6H/JIS2
Thread depth		<2TD	<2TD
Hole type			
Tool material		HSSE	HSSE
Surface treatment		Bright	GTS
Chamfer (TCL)		5P	5P
Tolerance of shank diameter		h9	h9
Rotation direction		RH	RH
Machining application		P 1.2-1.4 K 3.1 3.2 N 4.1-4.7 S 5.4	P 1.1-1.7 M 2.1 2.2 K 3.1 3.2 N 4.1-4.7 S 5.1 5.4

TD	TPI	Grade	Limit	LF	THL	LU	DCON	DRVS	NOF	PHD	Ordering Code			
NO.4	40	STD	HZ2	44	8	17	3	2.5	2	2.35	4.0000585	●	4.0000342	○
NO.5	40	STD	HZ2	46	10	19	4	3.2		2.65	4.0000339	●	4.0000340	○
NO.6	32	STD	HZ2	48	12	21	4	3.2	3	2.85	4.0000586	●	4.0000343	○
NO.8	32	STD	HZ2	52	12	21	5	4		3.5	4.0000587	●	4.0000344	○
NO.10	24	STD	HZ2	60	14	24	5.5	4.5		3.9	4.0000588	●	4.0000345	○
NO.12	24	STD	HZ2	60	16	25	5.5	4.5		4.5	4.0000346	●	4.0000347	○
1/4	20	STD	HZ3	62	16	29	6	4.5		5.1	4.0000584	●	4.0000348	○

- ① STD in the Grade column indicates the recommended Limit of the tap.
- ② Spiral pointed taps in size larger than 5/16 have no point (5/16 POT has only one point, on its thread end).
- ③ The Ordering Code column: ● Standard stock item; ○ Stock inquiry required
- ④ See Page 36 for tap marking style.

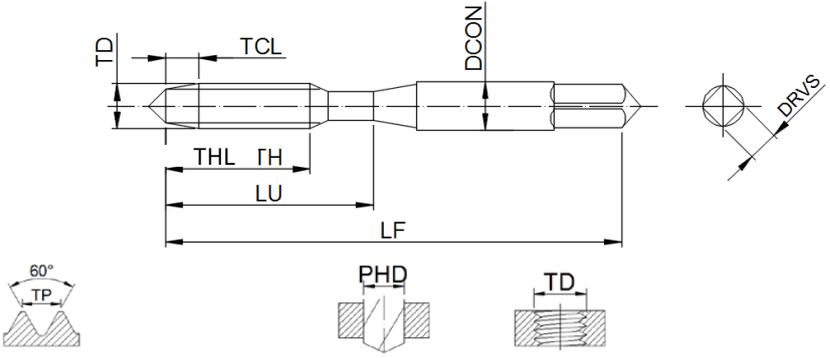
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Type	Multi-POT	Multi-POT-GTS																		
<p>American unified coarse thread UNC, ANSI B-1.1</p> <p>UNC</p>																				
Thread tolerance class (TCTR)	6H/JIS2	6H/JIS2																		
Thread depth	<2TD	<2TD																		
Hole type																				
Tool material	HSSE	HSSE																		
Surface treatment	Bright	GTS																		
Chamfer (TCL)	5P	5P																		
Tolerance of shank diameter	h9	h9																		
Rotation direction	RH	RH																		
Machining application	<table border="0"> <tr><td>P</td><td>1.2-1.4</td></tr> <tr><td>K</td><td>3.1 3.2</td></tr> <tr><td>N</td><td>4.1-4.7</td></tr> <tr><td>S</td><td>5.4</td></tr> </table>	P	1.2-1.4	K	3.1 3.2	N	4.1-4.7	S	5.4	<table border="0"> <tr><td>P</td><td>1.1-1.7</td></tr> <tr><td>M</td><td>2.1 2.2</td></tr> <tr><td>K</td><td>3.1 3.2</td></tr> <tr><td>N</td><td>4.1-4.7</td></tr> <tr><td>S</td><td>5.1 5.4</td></tr> </table>	P	1.1-1.7	M	2.1 2.2	K	3.1 3.2	N	4.1-4.7	S	5.1 5.4
P	1.2-1.4																			
K	3.1 3.2																			
N	4.1-4.7																			
S	5.4																			
P	1.1-1.7																			
M	2.1 2.2																			
K	3.1 3.2																			
N	4.1-4.7																			
S	5.1 5.4																			

TD	TPI	Grade	Limit	LF	THL	LU	DCON	DRVS	NOF	PHD	Ordering Code			
5/16	18	STD	HZ3	70	18	37	6.1	5	3	6.6	4.0000591	●	4.0000349	○
3/8	16	STD	HZ3	75	20	41	7	5.5		8	4.0000350	●	4.0000351	○
7/16	14	STD	HZ3	80	22	48	8	6		9.4	4.0000352	●	4.0000353	○
1/2	13	STD	HZ4	85	25	48	9	7		10.8	4.0000354	●	4.0000355	○
9/16	12	STD	HZ4	90	28	48	10.5	8		12.2	4.0000398	●	4.0000399	○
5/8	11	STD	HZ4	95	30	52	12	9		13.5	4.0000400	●	4.0000401	○
3/4	10	STD	HZ4	105	33	58	14	11		16.5	4.0000402	●	4.0000403	○
7/8	9	STD	HZ4	115	35	63	17	13		19.5	4.0000404	●	4.0000405	○
1	8	STD	HZ5	125	38	68	20	15		22.25	4.0000406	●	4.0000407	○

- ① STD in the Grade column indicates the recommended Limit of the tap.
- ② Spiral pointed taps in size larger than 5/16 have no point (5/16 POT has only one point, on its thread end).
- ③ The Ordering Code column: ● Standard stock item; ○ Stock inquiry required
- ④ See Page 36 for tap marking style.

Type	Multi-POT	Multi-POT-GTS
American unified fine thread UNF, ANSI B-1.1 		
Thread tolerance class (TCTR)	6H/JIS2	6H/JIS2
Thread depth	<2TD	<2TD
Hole type		
Tool material	HSSE	HSSE
Surface treatment	Bright	GTS
Chamfer (TCL)	5P	5P
Tolerance of shank diameter	h9	h9
Rotation direction	RH	RH
Machining application	P 1.2-1.4 K 3.1 3.2 N 4.1-4.7 S 5.4	P 1.1-1.7 M 2.1 2.2 K 3.1 3.2 N 4.1-4.7 S 5.1 5.4

TD	TPI	Grade	Limit	LF	THL	LU	DCON	DRVS	NOF	PHD	Ordering Code			
NO.4	48	STD	HZ2	44	7	17	3	2.5	2	2.4	4.0000356	○	4.0000357	○
NO.5	44	STD	HZ2	46	9	19	4	3.2		2.7	4.0000358	○	4.0000359	○
NO.6	40	STD	HZ2	48	11	21	4	3.2	3	2.95	4.0000360	○	4.0000361	○
NO.8	36	STD	HZ2	52	12	21	5	4		3.5	4.0000362	○	4.0000363	○
NO.10	32	STD	HZ2	60	14	24	5.5	4.5		4.1	4.0000589	●	4.0000364	○
NO.12	28	STD	HZ2	60	16	25	5.5	4.5		4.6	4.0000365	●	4.0000366	○
1/4	28	STD	HZ2	62	16	29	6	4.5		5.5	4.0000590	●	4.0000367	○

- ① STD in the Grade column indicates the recommended Limit of the tap.
- ② Spiral pointed taps in size larger than 5/16 have no point (5/16 POT has only one point, on its thread end).
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- ④ See Page 36 for tap marking style.

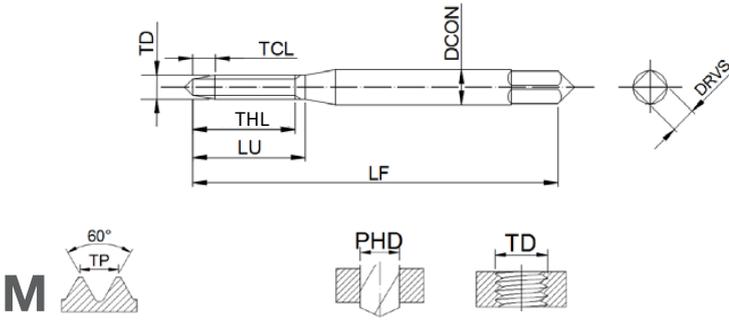
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Type	Multi-POT	Multi-POT-GTS																		
<p>American unified fine thread UNF, ANSI B-1.1</p> <p>MultiTAP</p>																				
Thread tolerance class (TCTR)	6H/JIS2	6H/JIS2																		
Thread depth	<2TD	<2TD																		
Hole type																				
Tool material	HSSE	HSSE																		
Surface treatment	Bright	GTS																		
Chamfer (TCL)	5P	5P																		
Tolerance of shank diameter	h9	h9																		
Rotation direction	RH	RH																		
Machining application	<table border="0"> <tr><td>P</td><td>1.2-1.4</td></tr> <tr><td>K</td><td>3.1 3.2</td></tr> <tr><td>N</td><td>4.1-4.7</td></tr> <tr><td>S</td><td>5.4</td></tr> </table>	P	1.2-1.4	K	3.1 3.2	N	4.1-4.7	S	5.4	<table border="0"> <tr><td>P</td><td>1.1-1.7</td></tr> <tr><td>M</td><td>2.1 2.2</td></tr> <tr><td>K</td><td>3.1 3.2</td></tr> <tr><td>N</td><td>4.1-4.7</td></tr> <tr><td>S</td><td>5.1 5.4</td></tr> </table>	P	1.1-1.7	M	2.1 2.2	K	3.1 3.2	N	4.1-4.7	S	5.1 5.4
P	1.2-1.4																			
K	3.1 3.2																			
N	4.1-4.7																			
S	5.4																			
P	1.1-1.7																			
M	2.1 2.2																			
K	3.1 3.2																			
N	4.1-4.7																			
S	5.1 5.4																			

TD	TPI	Grade	Limit	LF	THL	LU	DCON	DRVS	NOF	PHD	Ordering Code			
5/16	24	STD	HZ3	70	18	37	6.1	5	3	6.9	4.0000592	●	4.0000368	○
3/8	24	STD	HZ3	75	18	41	7	5.5		8.5	4.0000369	●	4.0000370	○
7/16	20	STD	HZ3	80	20	48	8	6		9.9	4.0000371	●	4.0000372	○
1/2	20	STD	HZ3	85	20	48	9	7		11.5	4.0000373	●	4.0000374	○
9/16	18	STD	HZ3	90	22	48	10.5	8		12.9	4.0000408	●	4.0000409	○
5/8	18	STD	HZ3	95	22	52	12	9		14.5	4.0000410	●	4.0000411	○
3/4	16	STD	HZ3	105	25	58	14	11		17.5	4.0000412	●	4.0000413	○
7/8	14	STD	HZ4	115	25	63	17	13		20.4	4.0000414	●	4.0000415	○
1	12	STD	HZ4	125	28	68	20	15		23.25	4.0000416	●	4.0000417	○

- ① STD in the Grade column indicates the recommended Limit of the tap.
- ② Spiral pointed taps in size larger than 5/16 have no point (5/16 POT has only one point, on its thread end).
- ③ The Ordering Code column: ● Standard stock item; ○ Stock inquiry required
- ④ See Page 36 for tap marking style.

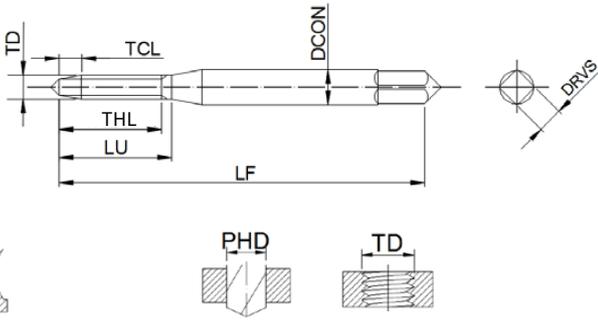
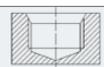
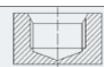
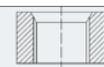
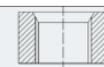
Type	Multi-NRT	Multi-NRT-DLC	Multi-NRT	Multi-NRT-DLC
M-Metric coarse thread JIS B4430  				
Thread tolerance class (TCTR)	6H/JIS2	6H/JIS2	6H/JIS2	6H/JIS2
Thread depth	<3TD	<3TD	<3TD	<3TD
Hole type				
Tool material	HSPM	HSPM	HM	HM
Surface treatment	Bright	DLC	Bright	DLC
Chamfer (TCL)	1P	1P	1P	1P
Tolerance of shank diameter	h9	h9	h7	h7
Rotation direction	RH	RH	RH	RH
Machining application	M 2.1 2.2 N 4.1 4.2	M 2.1 2.2 N 4.1 4.2	M 2.1 2.2 N 4.1 4.2 S 5.1	M 2.1 2.2 N 4.1 4.2 S 5.1

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TD	TP	Grade	Limit	LF	THL	LU	DCON	DRVS	PHD	Ordering Code							
M0.8	0.2	STD	FH3	40	2.5	-	3	2.5	0.7	3.0000653	○	3.0000581	●	3.0000709	○	3.0000710	●
M1.0	0.25	STD	FH4	40	3	-	3	2.5	0.9	3.0000655	○	3.0000583	●	3.0000711	○	3.0000712	●
M1.2	0.25	STD	FH4	40	4	-	3	2.5	1.1	3.0000657	○	3.0000584	●	3.0000713	○	3.0000714	●
M1.4	0.3	STD	FH4	40	4.5	-	3	2.5	1.28	3.0000635	○	3.0000658	●	3.0000715	○	3.0000716	●
M1.6	0.35	STD	FH4	40	5	-	3	2.5	1.47	3.0000660	○	3.0000585	●	3.0000717	○	3.0000718	●

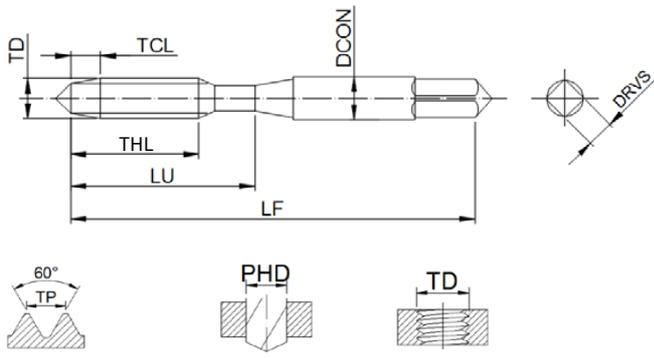
- ① STD in the Grade column indicates the recommended Limit of the tap.
- ② Forming Taps in size smaller than M7: TCL=2P has no point; TCL=4P has two points respectively on its thread end and shank end.
- ③ The Ordering Code column: ● Standard stock item; ○ Stock inquiry required
- ④ See Page 36 for tap marking style.

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- NRT-MF
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Type	Multi-NRT	Multi-NRT-GTS	Multi-NRT	Multi-NRT-GTS
M-Metric coarse thread JIS B4430  				
Thread tolerance class (TCTR)	6H/JIS2	6H/JIS2	6H/JIS2	6H/JIS2
Thread depth	<3TD	<3TD	<3TD	<3TD
Hole type				
Tool material	HSCO	HSCO	HSCO	HSCO
Surface treatment	Bright	GTS	Bright	GTS
Chamfer (TCL)	2P	2P	4P	4P
Tolerance of shank diameter	h9	h9	h9	h9
Rotation direction	RH	RH	RH	RH
Machining application	P 1.1 1.2 M 2.1 N 4.1-4.4 4.7	P 1.1-1.5 M 2.1 N 4.1-4.5 4.7	P 1.1 1.2 M 2.1 N 4.1-4.4 4.7	P 1.1-1.5 M 2.1 N 4.1-4.5 4.7

TD	TP	Grade	Limit	LF	THL	LU	DCON	DRVS	PHD	Ordering Code							
M2	0.4	STD	FH4	40	4	12	3	2.5	1.85	3.0000637	○	3.0000638	●	3.0000639	○	3.0000640	●
M2.5	0.45	STD	FH4	44	5	14	3	2.5	2.33	3.0000641	○	3.0000642	●	3.0000630	○	3.0000661	●
M3	0.5	STD	FH5	46	6	18	4	3.2	2.8	3.0000631	○	3.0000662	●	3.0000632	○	3.0000663	●
M4	0.7	STD	FH6	52	7	20	5	4	3.7	3.0000633	○	3.0000664	●	3.0000634	○	3.0000665	●
M5	0.8	STD	FH6	60	8	22	5.5	4.5	4.65	3.0000643	○	3.0000644	●	3.0000645	○	3.0000646	●
M6	1	STD	FH7	62	10	24	6	4.5	5.6	3.0000647	○	3.0000648	●	3.0000649	○	3.0000650	●
M8	1.25	STD	FH7	70	14	-	6.2	5	7.45	3.0000651	○	3.0000666	●	3.0000667	○	3.0000668	●
M10	1.5	STD	FH7	75	16	-	7	5.5	9.35	3.0000669	○	3.0000670	○	3.0000671	○	3.0000672	○
M12	1.75	STD	FH8	82	18	-	8.5	6.5	11.25	3.0000673	○	3.0000674	○	3.0000675	○	3.0000676	○
M14	2	STD	FH10	88	20	-	10.5	8	13.1	3.0000677	○	3.0000678	○	3.0000679	○	3.0000680	○
M16	2	STD	FH10	95	20	-	12.5	10	15.1	3.0000681	○	3.0000682	○	3.0000683	○	3.0000684	○

- ① STD in the Grade column indicates the recommended Limit of the tap.
- ② Forming Taps in size smaller than M7: TCL=2P has no point; TCL=4P has two points respectively on its thread end and shank end.
- ③ The Ordering Code column: ● Standard stock item; ○ Stock inquiry required
- ④ See Page 36 for tap marking style.

Type	Multi-NRT	Multi-NRT-GTS	Multi-NRT	Multi-NRT-GTS
MF-Metric fine thread JIS B4430 				
Thread tolerance class (TCTR)	6H/JIS2	6H/JIS2	6H/JIS2	6H/JIS2
Thread depth	<3TD	<3TD	<3TD	<3TD
Hole type				
Tool material	HSCO	HSCO	HSCO	HSCO
Surface treatment	Bright	GTS	Bright	GTS
Chamfer (TCL)	2P	2P	4P	4P
Tolerance of shank diameter	h9	h9	h9	h9
Rotation direction	RH	RH	RH	RH
Machining application	P 1.1-1.2 M 2.1 N 4.1-4.4 4.7	P 1.1-1.5 M 2.1 N 4.1-4.5 4.7	P 1.1-1.2 M 2.1 N 4.1-4.4 4.7	P 1.1-1.5 M 2.1 N 4.1-4.5 4.7

TD	TP	Grade	Limit	LF	THL	LU	DCON	DRVS	PHD	Ordering Code							
M6	0.75	STD	FH6	62	10	24	6	4.5	5.7	3.0000685	○	3.0000686	○	3.0000687	○	3.0000688	○
M8	1	STD	FH7	70	14	-	6.2	5	7.6	3.0000689	○	3.0000690	○	3.0000691	○	3.0000692	○
M10	1.25	STD	FH7	75	16	-	7	5.5	9.45	3.0000693	○	3.0000694	○	3.0000695	○	3.0000696	○
M12	1.5	STD	FH7	82	18	-	8.5	6.5	11.35	3.0000697	○	3.0000698	○	3.0000699	○	3.0000700	○
M14	1.5	STD	FH9	88	20	-	10.5	8	13.35	3.0000701	○	3.0000702	○	3.0000703	○	3.0000704	○
M16	1.5	STD	FH9	95	20	-	12.5	10	15.35	3.0000705	○	3.0000706	○	3.0000707	○	3.0000708	○

- ① STD in the Grade column indicates the recommended Limit of the tap.
- ② Forming Taps in size smaller than M7: TCL=2P has no point; TCL=4P has two points respectively on its thread end and shank end.
- ③ The Ordering Code column: ● Standard stock item; ○ Stock inquiry required
- ④ See Page 36 for tap marking style.

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Marking Information

Customized Request

Customized Tapping Tool Request Form



Basic Information

Customer Name *	.....	Sales Engineer	.....
Project Name	.....	Customer No.	.....
RFQ Date *	.....	Expected Quote Date *	.....
		Expected Lead Time(wks)	.....

Industry

Automotive	.....	Die & Mold	.....	General Machinery	.....
Power Generation	.....	Aviation & Aerospace	.....	Machine & Tools	.....
Oil & Gas	.....	Military & National Defense	.....	Electronic Consumer	.....

Workpiece

Part Name	.....	Output (pcs/year)	.....
Workpiece Material *	.....	CMC Code	.....
Inhomogeneity	.....	Blank Molding Method	.....
		Other Information	.....

Machine Information

Machine Maker	.....	Machine Type *	.....	Spindle Taper *	.....
Process System Stability	.....	Machine Conditions	.....	Cooling Method	.....
Spindle Speed (rpm)	.....	Max. Torque (N-m)	.....	Max. Power (kW)	.....

Tool | Coolant | Fixture | Tool Holder *

Brand of Taps in Use Now	.....	Tool Specification	.....
No. of Threads	.....	Tap Size	.....
Coating Type	.....	Coolant Exit Style Code	.....
Coolant	.....	Coolant Pressure/Concentration	.....
Pre-Hole Diameter(mm)	.....	Pre-Hole Depth (mm)	.....
		Thread Depth (mm)	.....
Premachined Hole Type	.....	Thread Limit	.....
		Thread Inspection Method	.....
Special Description	.....	
Cutting Speed Vc (m/min)	.....	Rotation Speed (rev/min)	.....
Tool Holder Type	.....	Tool Holder Brand and Specification	.....
Drill Brand	.....	Drill Specification & Life	.....
Current Tap Life (holes)	Unit Price of Current Tap
		Current Lead Time (wks)

Expectations *

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Special Requirements *

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Note: * indicates a required field.

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Conprofe Technology Group Co., Ltd.

Website: www.conprofetech.cn

E-mail: sales-international@conprofetech.com

Tel: +86 20 3861 9084

Address: No.6 2nd Nanyun Road, Science City,
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