

JIS • ANSI • DIN

LINE UP

⑦ SPECIAL THREAD TAPS / SIMPLE INSPECTION TOOLS



	JIS	ANSI	DIN
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Selection chart of taps

Recommended tap

 ◎ : Most suitable tap
 ○ : Suitable tap

Recommended tapping fluid

 ◆ : Insoluble
 ◇ : Water-soluble

Tapping conditions		Machining, in low-speed tapping area		Machining, in low/middle speed tapping area						
Product symbol		NT	N-RS STI	AL-HT STI	AL-SP STI	AL-PO STI	N-CT LA STI	SL Tr	SL LH Tr	LS-AL HT STI
Tap material		HSS	HSS NI	HSS	HSS NI	HSS	HF	HSS	HSS	HSS
Surface treatment										
Name		For general use	For helical coil wire screw thread inserts	For helical coil wire screw thread inserts				For trapezoidal threads	For trapezoidal threads For left-hand threads	For helical coil wire screw thread inserts
										
Bored Hole Shape										
For Metric Threads		⑦-30	⑦-28	⑦-3	⑦-13	⑦-21	⑦-29			⑦-7
For Unified Threads				⑦-5						
For Whitworth Threads		⑦-31		⑦-6						
For Screw Threads used on Sewing Machines										
Pipe Threads										
American Pipe Threads										
For Miniature Threads										
For Trapezoidal Threads								⑦-48	⑦-49	

⑦-1	~S25C	Low carbon steels	◆	◎													◆	◎	◆	◎				
	S25C~S45C	Medium carbon steels	◆	○													◆	◎	◆	◎				
	S45C~	High carbon steels																						
	SCM	Alloy steels																						
	25~35HRC	Heat treated steel																						
	35~45HRC	Heat treated steel																						
	45~55HRC	Heat treated steel																						
	55~63HRC	Heat treated steel																						
	SUS	Stainless steels (SUS)																						
	SKD	Tool steels																						
	SC	Cast steels																						
	FC	Cast irons																						
	FCD	Ductile cast irons																						
	Cu	Copper																						
	Bs	Brass							◆	○	◆	◎												
	BsC	Brass castings							◆	○	◆	◎												
	PB	Bronze							◆	○	◆	◎												
	AL	Wrought aluminum			◆	◎	◆	◎	◆	◎	◆	◎									◆	◎		
	AC, ADC	Aluminum alloy casting			◆	◎	◆	◎	◆	◎	◆	◎	◆	◎							◆	◎		
	Mg	Magnesium alloy die castings							◆	◎	◆	◎												
	ZDC	Zinc alloy die castings			◆	◎	◆	◎	◆	◎	◆	◎	◆	◎								◆	◎	
		Titanium alloys																						
		Nickel base alloys																						
		Thermosetting plastic																						
		Thermoplastic resin																						

MEMO

Spiral Fluted Taps (for blind hole)	①
Spiral Fluted Taps (for through hole)	②
Spiral Pointed Taps (for through hole)	③
Hand Taps	④
Cemented Carbide Taps	⑤
Roll Taps	⑥
Special Thread Taps Simple Inspection Tools	⑦
Pipe Taps	⑧
Thread Mills Premium Thread Mills	⑨
Dies	⑩
Center Drills Centering Tools	⑪
Precision Machinery/ Medical Surgical Instruments	⑫

7 Special Thread Taps / Simple Inspection Tools

JIS

① Spiral Fluted Taps
(for blind hole)

② Spiral Fluted Taps
(for through hole)

③ Spiral Pointed Taps
(for through hole)

④ Hand Taps

⑤ Cemented
Carbide Taps

⑥ Roll Taps

⑦ Special Thread Taps
Simple Inspection Tools

⑧ Pipe Taps

⑨ Thread Mills
Premium Thread Mills

⑩ Dies

⑪ Center Drills
Centering Tools

⑫ Precision Machinery/
Medical Surgical Instruments

JIS

⑦-3

Overall length	Thread length	Thread + Neck length	Shank length	Shank dia.	Size of square	Length of square
L	ℓ	ℓ _n	ℓ _s	D _s	K	ℓ _k

AL-HT STI

Hand Taps for Aluminum Materials (for Helical Coil Wire Screw Thread Inserts)



Specification



Tapping Speeds depending on Materials

Wrought aluminum アルミ圧延材	Aluminum alloy castings アルミ合金鋳物	Zinc alloy castings 亜鉛合金鋳物
5~15 (m/min)	5~15 (m/min)	5~15 (m/min)

■ This is used to cut a comparatively soft material, such as aluminum, and create an internal thread for accommodating a helical coil wire screw thread insert, in order to reinforce the internal thread and increase durability.

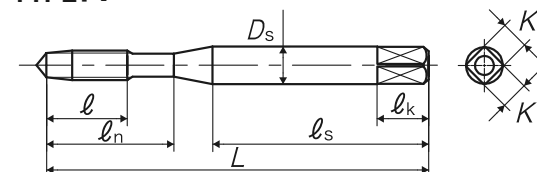
■ Diameter of the internal screw threads into which the insert coil is inserted, is larger than that of the corresponding external screw threads by the thickness of the coil. Therefore, the internal screw thread diameter of the insert coil thread tap is also larger than its nominal diameter.

■ The bored hole size needs to be also larger. Make sure to prepare an appropriate bored hole size before tapping.

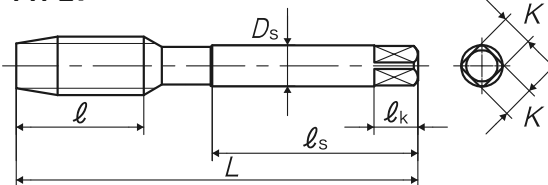
■ The shank diameter is also larger. Make sure to use an appropriate tap holder.

■ Oversize taps of Ib+30 are also available to allow for shrinkage of internal threads.

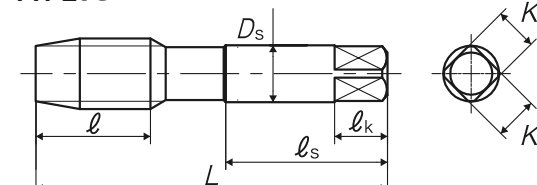
TYPE:1



TYPE:2



TYPE:3



Over size

Segment : 1A

Size	Class	Code	Chamfer	Basic major dia (mm)	L (mm)	ℓ (mm)	ℓ _n (mm)	ℓ _s (mm)	D _s (mm)	K (mm)	ℓ _k (mm)	No. of flutes	TYPE	MSRP
For Metric Threads														
M2 × 0.4	Ib	TW2.0E1LEB5	5P	2.520	46	8.1	14	29	3	2.5	5	3	1	¥ 4,150 ※
M2 × 0.4	Ib	TW2.0E1LEBA	1.5P	2.520	46	8.1	14	29	3	2.5	5	3	1	¥ 4,150 ※
M2.5 × 0.45	Ib	TW2.5F1LEB5	5P	3.085	52	6.8	16	28	5	4	7	3	1	¥ 3,160 ※
M2.5 × 0.45	Ib	TW2.5F1LEBA	1.5P	3.085	52	6.8	16	28	5	4	7	3	1	¥ 3,160 ※
M2.6 × 0.45	Ib	TW2.6F1LEB5	5P	3.185	52	6.8	16	29	5	4	7	3	1	¥ 3,160 ※
M2.6 × 0.45	Ib	TW2.6F1LEBA	1.5P	3.185	52	6.8	16	29	5	4	7	3	1	¥ 3,160 ※
M3 × 0.5	Ib	TW3.0G1LEB5	5P	3.650	52	7.5	17	29	5	4	7	3	1	¥ 2,600
M3 × 0.5	Ib	TW3.0G1LEBA	1.5P	3.650	52	7.5	17	29	5	4	7	3	1	¥ 2,600
M3 × 0.5	Ib+30	TW3.0G3LEB5	5P	3.650	52	7.5	17	29	5	4	7	3	1	¥ 2,600
M3 × 0.5	Ib+30	TW3.0G3LEBA	1.5P	3.650	52	7.5	17	29	5	4	7	3	1	¥ 2,600
M4 × 0.7	Ib	TW4.0I1LEB5	5P	4.909	60	13	22	33	5.5	4.5	7	4	1	¥ 2,470
M4 × 0.7	Ib	TW4.0I1LEBA	1.5P	4.909	60	13	22	33	5.5	4.5	7	4	1	¥ 2,470
M4 × 0.7	Ib+30	TW4.0I3LEB5	5P	4.909	60	13	22	33	5.5	4.5	7	4	1	¥ 2,470
M4 × 0.7	Ib+30	TW4.0I3LEBA	1.5P	4.909	60	13	22	33	5.5	4.5	7	4	1	¥ 2,470
M5 × 0.8	Ib	TW5.0K1LEB5	5P	6.039	62	15	26	33	6	4.5	7	4	1	¥ 2,380
M5 × 0.8	Ib	TW5.0K1LEBA	1.5P	6.039	62	15	26	33	6	4.5	7	4	1	¥ 2,380

Think threads with
YAMAWA

※ = Specified Distribution Items. Made to order products.

Overall length	Thread length	Thread + Neck length	Shank length	Shank dia.	Size of square	Length of square
L	ℓ	ℓn	ℓs	Ds	K	ℓk

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Size	Class	Code	Chamfer	Basic major dia (mm)	L (mm)	ℓ (mm)	ℓn (mm)	ℓs (mm)	Ds (mm)	K (mm)	ℓk (mm)	No. of flutes	TYPE	MSRP
M5 × 0.8	I b+30	TW5.0K3LEB5	5P	6.039	62	15	26	33	6	4.5	7	4	1	¥ 2,380
M5 × 0.8	I b+30	TW5.0K3LEBA	1.5P	6.039	62	15	26	33	6	4.5	7	4	1	¥ 2,380
M6 × 1	I b	TW6.0M1LEB5	5P	7.299	70	19	-	36	6.2	5	8	4	2	¥ 2,480
M6 × 1	I b	TW6.0M1LEBA	1.5P	7.299	70	19	-	36	6.2	5	8	4	2	¥ 2,480
M6 × 1	I b+30	TW6.0M3LEB5	5P	7.299	70	19	-	36	6.2	5	8	4	2	¥ 2,480
M6 × 1	I b+30	TW6.0M3LEBA	1.5P	7.299	70	19	-	36	6.2	5	8	4	2	¥ 2,480
M8 × 1.25	I b	TW8.0N1LEB5	5P	9.624	75	23	-	38	7	5.5	8	4	2	¥ 3,480
M8 × 1.25	I b	TW8.0N1LEBA	1.5P	9.624	75	23	-	38	7	5.5	8	4	2	¥ 3,480
M8 × 1.25	I b+30	TW8.0N3LEB5	5P	9.624	75	23	-	38	7	5.5	8	4	2	¥ 3,480
M8 × 1.25	I b+30	TW8.0N3LEBA	1.5P	9.624	75	23	-	38	7	5.5	8	4	2	¥ 3,480
M10 × 1.5	I b	TW010O1LEB5	5P	11.948	82	26	-	42	8.5	6.5	9	4	2	¥ 4,660
M10 × 1.5	I b	TW010O1LEBA	1.5P	11.948	82	26	-	42	8.5	6.5	9	4	2	¥ 4,660
M10 × 1.5	I b+30	TW010O3LEB5	5P	11.948	82	26	-	42	8.5	6.5	9	4	2	¥ 4,660
M10 × 1.5	I b+30	TW010O3LEBA	1.5P	11.948	82	26	-	42	8.5	6.5	9	4	2	¥ 4,660
M10 × 1.25	I b	TW010N1LEB5	5P	11.624	82	26	-	42	8.5	6.5	9	4	2	¥ 4,660 ※
M10 × 1.25	I b	TW010N1LEBA	1.5P	11.624	82	26	-	42	8.5	6.5	9	4	2	¥ 4,660 ※
M10 × 1	I b	TW010M1LEB5	5P	11.299	82	26	-	42	8.5	6.5	9	4	2	¥ 5,790 ※
M10 × 1	I b	TW010M1LEBA	1.5P	11.299	82	26	-	42	8.5	6.5	9	4	2	¥ 5,790 ※
M12 × 1.75	I b	TW012P1LEB5	5P	14.273	95	26	-	48	12.5	10	13	4	2	¥ 6,410
M12 × 1.75	I b	TW012P1LEBA	1.5P	14.273	95	26	-	48	12.5	10	13	4	2	¥ 6,410
M12 × 1.5	I b	TW012O1LEB5	5P	13.948	88	26	-	45	10.5	8	11	4	2	¥ 6,410 ※
M12 × 1.5	I b	TW012O1LEBA	1.5P	13.948	88	26	-	45	10.5	8	11	4	2	¥ 6,410 ※
M12 × 1.25	I b	TW012N1LEB5	5P	13.624	88	26	-	45	10.5	8	11	4	2	¥ 6,410 ※
M12 × 1.25	I b	TW012N1LEBA	1.5P	13.624	88	26	-	45	10.5	8	11	4	2	¥ 6,410 ※
M14 × 2	I b	TW014Q1LEB5	5P	16.598	100	33	-	51	14	11	14	4	2	¥ 8,430 ※
M14 × 2	I b	TW014Q1LEBA	1.5P	16.598	100	33	-	51	14	11	14	4	2	¥ 8,430 ※
M14 × 1.5	I b	TW014O1LEB5	5P	15.948	95	26	-	48	12.5	10	13	4	2	¥ 8,430 ※
M14 × 1.5	I b	TW014O1LEBA	1.5P	15.948	95	26	-	48	12.5	10	13	4	2	¥ 8,430 ※
M14 × 1.25	I b	TW014N1LEB5	5P	15.624	95	26	-	48	12.5	10	13	4	2	¥ 10,200 ※
M14 × 1.25	I b	TW014N1LEBA	1.5P	15.624	95	26	-	48	12.5	10	13	4	2	¥ 10,200 ※
M16 × 2	I b	TW016Q1LEB5	5P	18.598	105	33	-	50	15	12	15	4	3	¥ 12,200
M16 × 2	I b	TW016Q1LEBA	1.5P	18.598	105	33	-	50	15	12	15	4	3	¥ 12,200
M16 × 1.5	I b	TW016O1LEB5	5P	17.948	100	33	-	51	14	11	14	4	2	¥ 12,200 ※
M16 × 1.5	I b	TW016O1LEBA	1.5P	17.948	100	33	-	51	14	11	14	4	2	¥ 12,200 ※
M18 × 2.5	I b	TW018R1LEB5	5P	21.248	115	33	-	55	17	13	16	4	3	¥ 20,200 ※
M18 × 2.5	I b	TW018R1LEBA	1.5P	21.248	115	33	-	55	17	13	16	4	3	¥ 20,200 ※
M18 × 1.5	I b	TW018O1LEB5	5P	19.948	105	33	-	50	15	12	15	4	3	¥ 20,200 ※
M18 × 1.5	I b	TW018O1LEBA	1.5P	19.948	105	33	-	50	15	12	15	4	3	¥ 20,200 ※
M20 × 2.5	I b	TW020R1LEB5	5P	23.248	120	39	-	55	19	15	18	4	3	¥ 24,000
M20 × 2.5	I b	TW020R1LEBA	1.5P	23.248	120	39	-	55	19	15	18	4	3	¥ 24,000
M20 × 1.5	I b	TW020O1LEB5	5P	21.948	115	33	-	55	17	13	16	4	3	¥ 24,000 ※
M20 × 1.5	I b	TW020O1LEBA	1.5P	21.948	115	33	-	55	17	13	16	4	3	¥ 24,000 ※
M22 × 2.5	I b	TW022R1LEB5	5P	25.248	125	39	-	58	19	15	18	4	3	¥ 31,500 ※
M22 × 2.5	I b	TW022R1LEBA	1.5P	25.248	125	39	-	58	19	15	18	4	3	¥ 31,500 ※
M22 × 1.5	I b	TW022O1LEB5	5P	23.948	120	39	-	55	19	15	18	4	3	¥ 31,200 ※
M22 × 1.5	I b	TW022O1LEBA	1.5P	23.948	120	39	-	55	19	15	18	4	3	¥ 31,200 ※
M24 × 3	I b	TW024S1LEB5	5P	27.897	135	46	-	62	23	17	20	4	3	¥ 38,900
M24 × 3	I b	TW024S1LEBA	1.5P	27.897	135	46	-	62	23	17	20	4	3	¥ 38,900
M24 × 2	I b	TW024Q1LEB5	5P	26.598	130	39	-	60	20	15	18	4	3	¥ 38,900 ※
M24 × 1.5	I b	TW024O1LEB5	5P	25.948	130	39	-	60	20	15	18	4	3	¥ 38,900 ※

Spiral Fluted Taps
(for blind hole)

①

Spiral Fluted Taps
(for through hole)

②

Spiral Pointed Taps
(for through hole)

③

Hand Taps

④

Cemented
Carbide Taps

⑤

Roll Taps

⑥

Special Thread Taps
Simple Inspection Tools

⑦

Pipe Taps

⑧

Thread Mills
Premium Thread Mills

⑨

Dies

⑩

Center Drills
Centering Tools

⑪

Precision Machinery/
Medical Surgical Instruments

⑫

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⑦-4

※ = Specified Distribution Items. Made to order products.

Think threads with
YAMAWA

7 Special Thread Taps / Simple Inspection Tools

Overall length	Thread length	Thread + Neck length	Shank length	Shank dia.	Size of square	Length of square
L	ℓ	ℓn	ℓs	Ds	K	ℓk

JIS

AL-HT STI Hand Taps for Aluminum Materials (for Helical Coil Wire Screw Thread Inserts)

Size	Class	Code	Chamfer	Basic major dia (mm)	L (mm)	ℓ (mm)	ℓn (mm)	ℓs (mm)	Ds (mm)	K (mm)	ℓk (mm)	No. of flutes	TYPE	MSRP
M24 × 1.5	I b	TW024O1LEBA	1.5P	25.948	130	39	-	60	20	15	18	4	3	¥ 38,900 ※
For Unified Threads														
No.4-40UNC	I b	TWUN4H1LEB5	5P	3.670	52	11	17	29	5	4	7	3	1	¥ 2,790 ※
No.4-40UNC	I b	TWUN4H1LEBA	1.5P	3.670	52	11	17	29	5	4	7	3	1	¥ 2,790 ※
No.4-48UNF	I b	TWUN4F1LEB5	5P	3.532	52	11	17	29	5	4	7	3	1	¥ 2,790 ※
No.4-48UNF	I b	TWUN4F1LEBA	1.5P	3.532	52	11	17	29	5	4	7	3	1	¥ 2,790 ※
No.5-40UNC	I b	TWUN5H1LEB5	5P	4.000	52	11	17	29	5	4	7	3	1	¥ 2,700 ※
No.5-40UNC	I b	TWUN5H1LEBA	1.5P	4.000	52	11	17	29	5	4	7	3	1	¥ 2,700 ※
No.6-32UNC	I b	TWUN6J1LEB5	5P	4.536	60	13	22	33	5.5	4.5	7	3	1	¥ 2,630 ※
No.6-32UNC	I b	TWUN6J1LEBA	1.5P	4.536	60	13	22	33	5.5	4.5	7	3	1	¥ 2,630 ※
No.6-40UNF	I b	TWUN6H1LEB5	5P	4.330	60	13	22	33	5.5	4.5	7	3	1	¥ 2,630 ※
No.6-40UNF	I b	TWUN6H1LEBA	1.5P	4.330	60	13	22	33	5.5	4.5	7	3	1	¥ 2,630 ※
No.8-32UNC	I b	TWUN8J1LEB5	5P	5.197	62	15	26	33	6	4.5	7	4	1	¥ 2,570 ※
No.8-32UNC	I b	TWUN8J1LEBA	1.5P	5.197	62	15	26	33	6	4.5	7	4	1	¥ 2,570 ※
No.8-36UNF	I b	TWUN8I1LEB5	5P	5.083	62	9.5	26	33	6	4.5	7	4	1	¥ 2,570 ※
No.8-36UNF	I b	TWUN8I1LEBA	1.5P	5.083	62	9.5	26	33	6	4.5	7	4	1	¥ 2,570 ※
No.10-24UNC	I b	TWUNAM1LEB5	5P	6.201	62	15	26	33	6	4.5	7	4	1	¥ 2,570 ※
No.10-24UNC	I b	TWUNAM1LEBA	1.5P	6.201	62	15	26	33	6	4.5	7	4	1	¥ 2,570 ※
No.10-32UNF	I b	TWUNAJ1LEB5	5P	5.857	62	15	26	33	6	4.5	7	4	1	¥ 2,570 ※
No.10-32UNF	I b	TWUNAJ1LEBA	1.5P	5.857	62	15	26	33	6	4.5	7	4	1	¥ 2,570 ※
No.12-24UNC	I b	TWUNCM1LEB5	5P	6.861	70	19	-	36	6.2	5	8	4	2	¥ 2,790 ※
No.12-24UNC	I b	TWUNCM1LEBA	1.5P	6.861	70	19	-	36	6.2	5	8	4	2	¥ 2,790 ※
1/4-20UNC	I b	TWU04N1LEB5	5P	8.000	70	19	-	36	6.2	5	8	4	2	¥ 3,300 ※
1/4-20UNC	I b	TWU04N1LEBA	1.5P	8.000	70	19	-	36	6.2	5	8	4	2	¥ 3,300 ※
1/4-28UNF	I b	TWU04K1LEB5	5P	7.528	70	19	-	36	6.2	5	8	4	2	¥ 3,300 ※
1/4-28UNF	I b	TWU04K1LEBA	1.5P	7.528	70	19	-	36	6.2	5	8	4	2	¥ 3,300 ※
5/16-18UNC	I b	TWU05O1LEB5	5P	9.771	75	23	-	38	7	5.5	8	4	2	¥ 4,410 ※
5/16-18UNC	I b	TWU05O1LEBA	1.5P	9.771	75	23	-	38	7	5.5	8	4	2	¥ 4,410 ※
5/16-24UNF	I b	TWU05M1LEB5	5P	9.313	75	23	-	38	7	5.5	8	4	2	¥ 4,410 ※
5/16-24UNF	I b	TWU05M1LEBA	1.5P	9.313	75	23	-	38	7	5.5	8	4	2	¥ 4,410 ※
3/8-16UNC	I b	TWU06P1LEB5	5P	11.587	82	26	-	42	8.5	6.5	9	4	2	¥ 5,290 ※
3/8-16UNC	I b	TWU06P1LEBA	1.5P	11.587	82	26	-	42	8.5	6.5	9	4	2	¥ 5,290 ※
3/8-24UNF	I b	TWU06M1LEB5	5P	10.900	82	26	-	42	8.5	6.5	9	4	2	¥ 5,290 ※
3/8-24UNF	I b	TWU06M1LEBA	1.5P	10.900	82	26	-	42	8.5	6.5	9	4	2	¥ 5,290 ※
7/16-14UNC	I b	TWU07Q1LEB5	5P	13.469	88	26	-	45	10.5	8	11	4	2	¥ 7,160 ※
7/16-14UNC	I b	TWU07Q1LEBA	1.5P	13.469	88	26	-	45	10.5	8	11	4	2	¥ 7,160 ※
7/16-20UNF	I b	TWU07N1LEB5	5P	12.762	88	26	-	45	10.5	8	11	4	2	¥ 7,160 ※
7/16-20UNF	I b	TWU07N1LEBA	1.5P	12.762	88	26	-	45	10.5	8	11	4	2	¥ 7,160 ※
1/2-13UNC	I b	TWU08R1LEB5	5P	15.238	95	26	-	48	12.5	10	13	4	2	¥ 8,740 ※
1/2-13UNC	I b	TWU08R1LEBA	1.5P	15.238	95	26	-	48	12.5	10	13	4	2	¥ 8,740 ※
1/2-20UNF	I b	TWU08N1LEB5	5P	14.350	95	26	-	48	12.5	10	13	4	2	¥ 8,740 ※
1/2-20UNF	I b	TWU08N1LEBA	1.5P	14.350	95	26	-	48	12.5	10	13	4	2	¥ 8,740 ※
5/8-11UNC	I b	TWU10U1LEB5	5P	18.875	105	33	-	50	15	12	15	4	3	¥ 13,600 ※
5/8-11UNC	I b	TWU10U1LEBA	1.5P	18.875	105	33	-	50	15	12	15	4	3	¥ 13,600 ※
5/8-18UNF	I b	TWU10O1LEB5	5P	17.708	100	33	-	51	14	11	14	4	2	¥ 13,600 ※
5/8-18UNF	I b	TWU10O1LEBA	1.5P	17.708	100	33	-	51	14	11	14	4	2	¥ 13,600 ※
3/4-10UNC	I b	TWU12V1LEB5	5P	22.349	115	33	-	55	17	13	16	4	3	¥ 21,200 ※
3/4-10UNC	I b	TWU12V1LEBA	1.5P	22.349	115	33	-	55	17	13	16	4	3	¥ 21,200 ※
3/4-16UNF	I b	TWU12P1LEB5	5P	21.112	115	33	-	55	17	13	16	4	3	¥ 21,200 ※
3/4-16UNF	I b	TWU12P1LEBA	1.5P	21.112	115	33	-	55	17	13	16	4	3	¥ 21,200 ※

JIS

⑦-5

Think threads with
YAMAWA

※ = Specified Distribution Items. Made to order products.

Overall length	Thread length	Thread + Neck length	Shank length	Shank dia.	Size of square	Length of square
L	ℓ	ℓn	ℓs	Ds	K	ℓk

AL-HT STI Hand Taps for Aluminum Materials (for Helical Coil Wire Screw Thread Inserts)

Size	Class	Code	Chamfer	Basic major dia (mm)	L (mm)	ℓ (mm)	ℓn (mm)	ℓs (mm)	Ds (mm)	K (mm)	ℓk (mm)	No. of flutes	TYPE	MSRP
For Unified Threads														
1/4W20	I b	TWW04N1LEB5	5P	7.976	70	19	-	36	6.2	5	8	4	2	¥ 3,300 ※
1/4W20	I b	TWW04N1LEBA	1.5P	7.976	70	19	-	36	6.2	5	8	4	2	¥ 3,300 ※
5/16W18	I b	TWW05O1LEB5	5P	9.744	75	23	-	38	7	5.5	8	4	2	¥ 4,410 ※
5/16W18	I b	TWW05O1LEBA	1.5P	9.744	75	23	-	38	7	5.5	8	4	2	¥ 4,410 ※
3/8W16	I b	TWW06P1LEB5	5P	11.558	82	26	-	42	8.5	6.5	9	4	2	¥ 5,290 ※
3/8W16	I b	TWW06P1LEBA	1.5P	11.558	82	26	-	42	8.5	6.5	9	4	2	¥ 5,290 ※
7/16W14	I b	TWW07Q1LEB5	5P	13.434	88	26	-	45	10.5	8	11	4	2	¥ 7,160 ※
7/16W14	I b	TWW07Q1LEBA	1.5P	13.434	88	26	-	45	10.5	8	11	4	2	¥ 7,160 ※
1/2W12	I b	TWW08S1LEB5	5P	15.409	95	26	-	48	12.5	10	13	4	2	¥ 8,740 ※
1/2W12	I b	TWW08S1LEBA	1.5P	15.409	95	26	-	48	12.5	10	13	4	2	¥ 8,740 ※
5/8W11	I b	TWW10U1LEB5	5P	18.833	105	33	-	50	15	12	15	4	3	¥ 13,600 ※
5/8W11	I b	TWW10U1LEBA	1.5P	18.833	105	33	-	50	15	12	15	4	3	¥ 13,600 ※
3/4W10	I b	TWW12V1LEB5	5P	22.302	115	33	-	55	17	13	16	4	3	¥ 21,200 ※
3/4W10	I b	TWW12V1LEBA	1.5P	22.302	115	33	-	55	17	13	16	4	3	¥ 21,200 ※

7

JIS

Spiral Fluted Taps
(for blind hole)

①

Spiral Fluted Taps
(for through hole)

②

Spiral Pointed Taps
(for through hole)

③

Hand Taps

④

Cemented
Carbide Taps

⑤

Roll Taps

⑥

Special Thread Taps
Simple Inspection Tools

⑦

Pipe Taps

⑧

Thread Mills
Premium Thread Mills

⑨

Dies

⑩

Center Drills
Centering Tools

⑪

Precision Machinery/
Medical Surgical Instruments

⑫

JIS

⑦-6

7 Special Thread Taps / Simple Inspection Tools

Overall length	Thread length	Thread + Neck length	Shank length	Shank dia.	Size of square	Length of square
L	ℓ	ℓ_n	ℓ_s	Ds	K	ℓ_k

JIS

① Spiral Fluted Taps
(for blind hole)

② Spiral Fluted Taps
(for through hole)

③ Spiral Pointed Taps
(for through hole)

④ Hand Taps

⑤ Cemented Carbide Taps

⑥ Roll Taps

⑦ Special Thread Taps
Simple Inspection Tools

⑧ Pipe Taps

⑨ Thread Mills
Premium Thread Mills

⑩ Dies

⑪ Center Drills
Centering Tools

⑫ Precision Machinery/
Medical Surgical Instruments

JIS

⑦-7

LS-AL-HT STI

Long, Hand Taps for Aluminum Materials (for Helical Coil Wire Screw Thread Inserts)



Specification

HSS



Tapping Speeds depending on Materials

Wrought aluminum
アルミ圧延材
5~15
(m/min)

Aluminum alloy castings
アルミ合金鋳物
5~15
(m/min)

Zinc alloy castings
亜鉛合金鋳物
5~15
(m/min)

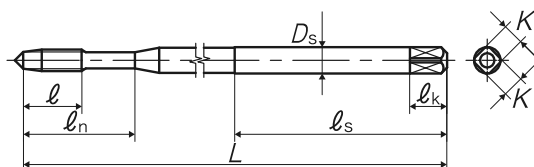
■ This is used to cut a comparatively soft material, such as aluminum, and create an internal thread for accommodating a helical coil wire screw thread insert, in order to reinforce the internal thread and increase durability.

■ Diameter of the internal screw threads into which the insert coil is inserted, is larger than that of the corresponding external screw threads by the thickness of the coil. Therefore, the internal screw thread diameter of the insert coil thread tap is also larger than its nominal diameter.

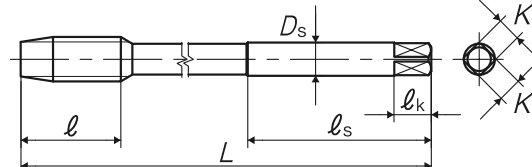
■ The bored hole size needs to be also larger. Make sure to prepare an appropriate bored hole size before tapping.

■ The shank diameter is also larger. Make sure to use an appropriate tap holder.

TYPE:1



TYPE:2



Segment : 1A

Size	Class	Code	Chamfer	Basic major dia (mm)	L (mm)	ℓ (mm)	ℓ_n (mm)	ℓ_s (mm)	Ds (mm)	K (mm)	ℓ_k (mm)	No. of flutes	TYPE	MSRP
For Metric Threads														
M3 × 0.5	Ib	TW3.0G1LEB5E	5P	3.650	100	7.5	21	40	5	4	7	3	1	¥ 7,480 ※
M3 × 0.5	Ib	TW3.0G1LEBAE	1.5P	3.650	100	7.5	21	40	5	4	7	3	1	¥ 7,480 ※
M4 × 0.7	Ib	TW4.0H1LEB5E	5P	4.909	100	13	25	40	5.5	4.5	7	4	1	¥ 6,480 ※
M4 × 0.7	Ib	TW4.0H1LEBAE	1.5P	4.909	100	13	25	40	5.5	4.5	7	4	1	¥ 6,480 ※
M5 × 0.8	Ib	TW5.0K1LEB5E	5P	6.039	100	15	30	40	6	4.5	7	4	1	¥ 5,430 ※
M5 × 0.8	Ib	TW5.0K1LEBAE	1.5P	6.039	100	15	30	40	6	4.5	7	4	1	¥ 5,430 ※
M6 × 1	Ib	TW6.0M1LEB5E	5P	7.299	100	19	-	50	6.2	5	8	4	2	¥ 4,370 ※
M6 × 1	Ib	TW6.0M1LEB5G	5P	7.299	150	19	-	50	6.2	5	8	4	2	¥ 7,740 ※
M6 × 1	Ib	TW6.0M1LEBAE	1.5P	7.299	100	19	-	50	6.2	5	8	4	2	¥ 4,370 ※
M6 × 1	Ib	TW6.0M1LEBAG	1.5P	7.299	150	19	-	50	6.2	5	8	4	2	¥ 7,740 ※
M8 × 1.25	Ib	TW8.0N1LEB5E	5P	9.624	100	23	-	50	7	5.5	8	4	2	¥ 5,730 ※
M8 × 1.25	Ib	TW8.0N1LEB5G	5P	9.624	150	23	-	50	7	5.5	8	4	2	¥ 9,750 ※
M8 × 1.25	Ib	TW8.0N1LEBAE	1.5P	9.624	100	23	-	50	7	5.5	8	4	2	¥ 5,730 ※
M8 × 1.25	Ib	TW8.0N1LEBAG	1.5P	9.624	150	23	-	50	7	5.5	8	4	2	¥ 9,750 ※
M10 × 1.5	Ib	TW010O1LEB5G	5P	11.948	150	26	-	50	8.5	6.5	9	4	2	¥ 12,100 ※
M10 × 1.5	Ib	TW010O1LEBAG	1.5P	11.948	150	26	-	50	8.5	6.5	9	4	2	¥ 12,100 ※
M10 × 1.25	Ib	TW010N1LEB5G	5P	11.624	150	26	-	50	8.5	6.5	9	4	2	¥ 12,100 ※
M10 × 1.25	Ib	TW010N1LEBAG	1.5P	11.624	150	26	-	50	8.5	6.5	9	4	2	¥ 12,100 ※
M12 × 1.75	Ib	TW012P1LEB5G	5P	14.273	150	26	-	60	12.5	10	13	4	2	¥ 14,600 ※
M12 × 1.75	Ib	TW012P1LEBAG	1.5P	14.273	150	26	-	60	12.5	10	13	4	2	¥ 14,600 ※
M12 × 1.5	Ib	TW012O1LEB5G	5P	13.948	150	26	-	60	10.5	8	11	4	2	¥ 14,600 ※
M12 × 1.5	Ib	TW012O1LEBAG	1.5P	13.948	150	26	-	60	10.5	8	11	4	2	¥ 14,600 ※

Think threads with
YAMAWA

※ = Specified Distribution Items. Made to order products.

Overall length	Thread length	Thread + Neck length	Shank length	Shank dia.	Size of square	Length of square
L	ℓ	ℓ_n	ℓ_s	Ds	K	ℓ_k

Size	Class	Code	Chamfer	Basic major dia (mm)	L (mm)	ℓ (mm)	ℓ_n (mm)	ℓ_s (mm)	Ds (mm)	K (mm)	ℓ_k (mm)	No. of flutes	TYPE	MSRP
M12 × 1.25	I b	TW012N1LEB5G	5P	13.624	150	26	-	60	10.5	8	11	4	2	¥ 14,600 ※
M12 × 1.25	I b	TW012N1LEBAG	1.5P	13.624	150	26	-	60	10.5	8	11	4	2	¥ 14,600 ※

7

JIS

Spiral Fluted Taps
(for blind hole)

①

Spiral Fluted Taps
(for through hole)

②

Spiral Pointed Taps
(for through hole)

③

Hand Taps

④

Cemented
Carbide Taps

⑤

Roll Taps

⑥

Special Thread Taps
Simple Inspection Tools

⑦

Pipe Taps

⑧

Thread Mills
Premium Thread Mills

⑨

Dies

⑩

Center Drills
Centering Tools

⑪

Precision Machinery/
Medical Surgical Instruments

⑫

JIS

⑦-8

※ = Specified Distribution Items. Made to order products.

Think threads with
YAMAWA

7 Special Thread Taps / Simple Inspection Tools

Overall length	Thread length	Thread + Neck length	Shank length	Shank dia.	Size of square	Length of square
L	ℓ	ℓ_n	ℓ_s	Ds	K	ℓ_k

ANSI

① Spiral Fluted Taps
(for blind hole)

② Spiral Fluted Taps
(for through hole)

③ Spiral Pointed Taps
(for through hole)

④ Hand Taps

⑤ Cemented Carbide Taps

⑥ Roll Taps

⑦ Special Thread Taps
Simple Inspection Tools

⑧ Pipe Taps

⑨ Thread Mills
Premium Thread Mills

⑩ Dies

⑪ Center Drills
Centering Tools

⑫ Precision Machinery/
Medical Surgical Instruments

ANSI

HT STI

Hand Taps for Helical Coil Wire Screw Thread Inserts



Specification



■ Hand tap to cut internal threads for helical coil to enter.

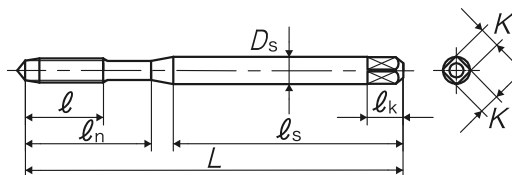
Tapping Speed depending on Materials

Wrought aluminum
アルミ圧延材
5~15
(m/min)

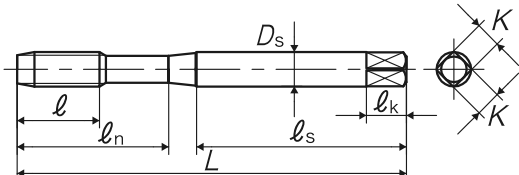
Aluminum alloy castings
アルミ合金鋳物
5~15
(m/min)

Zinc alloy castings
亜鉛合金鋳物
5~15
(m/min)

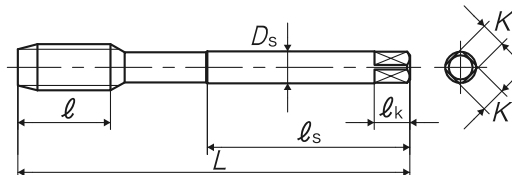
TYPE: 1



TYPE: 2



TYPE: 3



For No.10 or less, the chamfer-1.5P convex center is removed.

Segment : 1A

Size	Class	Code	Chamfer	L (inch)	ℓ (inch)	ℓ_n (inch)	ℓ_s (inch)	Ds (inch)	K (inch)	ℓ_k (inch)	No. of flutes	TYPE
For Unified Threads												
No.2-56UNC	GH1	TUUN2E1NEB5	5P	2.205	0.354	0.709	1.28	0.141	0.11	0.187	3	1
No.2-56UNC	GH1	TUUN2E1NEBA	1.5P	2.205	0.354	0.709	1.28	0.141	0.11	0.187	3	1
No.2-56UNC	GH2	TUUN2E2NEB5	5P	2.205	0.354	0.709	1.28	0.141	0.11	0.187	3	1
No.2-56UNC	GH2	TUUN2E2NEBA	1.5P	2.205	0.354	0.709	1.28	0.141	0.11	0.187	3	1
No.4-40UNC	GH1	TUUN4H1NEB5	5P	2.48	0.512	0.827	1.496	0.168	0.131	0.25	3	1
No.4-40UNC	GH1	TUUN4H1NEBA	1.5P	2.48	0.512	0.827	1.496	0.168	0.131	0.25	3	1
No.4-40UNC	GH2	TUUN4H2NEB5	5P	2.48	0.512	0.827	1.496	0.168	0.131	0.25	3	1
No.4-40UNC	GH2	TUUN4H2NEBA	1.5P	2.48	0.512	0.827	1.496	0.168	0.131	0.25	3	1
No.6-32UNC	GH1	TUUN6J1NEB5	5P	2.756	0.551	0.945	1.654	0.194	0.131	0.25	3	1
No.6-32UNC	GH1	TUUN6J1NEBA	1.5P	2.756	0.551	0.945	1.654	0.194	0.131	0.25	3	1
No.6-32UNC	GH2	TUUN6J2NEB5	5P	2.756	0.551	0.945	1.654	0.194	0.131	0.25	3	1
No.6-32UNC	GH2	TUUN6J2NEBA	1.5P	2.756	0.551	0.945	1.654	0.194	0.131	0.25	3	1
No.8-32UNC	GH1	TUUN8J1NEB5	5P	3.15	0.591	0.984	1.929	0.22	0.165	0.281	3	1
No.8-32UNC	GH1	TUUN8J1NEBA	1.5P	3.15	0.591	0.984	1.929	0.22	0.165	0.281	3	1
No.8-32UNC	GH2	TUUN8J2NEB5	5P	3.15	0.591	0.984	1.929	0.22	0.165	0.281	3	1
No.8-32UNC	GH2	TUUN8J2NEBA	1.5P	3.15	0.591	0.984	1.929	0.22	0.165	0.281	3	1

ANSI

⑦-9

Think threads with
YAMAWA

· This product is different from JIS products in shape and dimensions, please be careful when using.

Overall length	Thread length	Thread + Neck length	Shank length	Shank dia.	Size of square	Length of square
L	ℓ	ℓn	ℓs	Ds	K	ℓk

7

ANSI

Size	Class	Code	Chamfer	L (inch)	ℓ (inch)	ℓn (inch)	ℓs (inch)	Ds (inch)	K (inch)	ℓk (inch)	No. of flutes	TYPE
No.10-24UNC	GH2	TUUNAM2NEB5	5P	3.15	0.591	1.181	1.713	0.255	0.191	0.312	3	1
No.10-24UNC	GH2	TUUNAM2NEBA	1.5P	3.15	0.591	1.181	1.713	0.255	0.191	0.312	3	1
No.10-24UNC	GH3	TUUNAM3NEB5	5P	3.15	0.591	1.181	1.713	0.255	0.191	0.312	3	1
No.10-24UNC	GH3	TUUNAM3NEBA	1.5P	3.15	0.591	1.181	1.713	0.255	0.191	0.312	3	1
No.10-32UNF	GH2	TUUNAJ2NEB5	5P	3.15	0.591	1.181	1.713	0.255	0.191	0.312	3	1
No.10-32UNF	GH2	TUUNAJ2NEBA	1.5P	3.15	0.591	1.181	1.713	0.255	0.191	0.312	3	1
No.10-32UNF	GH3	TUUNAJ3NEB5	5P	3.15	0.591	1.181	1.713	0.255	0.191	0.312	3	1
No.10-32UNF	GH3	TUUNAJ3NEBA	1.5P	3.15	0.591	1.181	1.713	0.255	0.191	0.312	3	1
1/4-20UNC	GH2	TUU04N2NEB5	5P	3.543	0.748	1.378	1.831	0.318	0.238	0.375	3	2
1/4-20UNC	GH2	TUU04N2NEBA	1.5P	3.543	0.748	1.378	1.831	0.318	0.238	0.375	3	2
1/4-20UNC	GH3	TUU04N3NEB5	5P	3.543	0.748	1.378	1.831	0.318	0.238	0.375	3	2
1/4-20UNC	GH3	TUU04N3NEBA	1.5P	3.543	0.748	1.378	1.831	0.318	0.238	0.375	3	2
1/4-28UNF	GH2	TUU04K2NEB5	5P	3.543	0.748	1.378	1.831	0.318	0.238	0.375	3	2
1/4-28UNF	GH2	TUU04K2NEBA	1.5P	3.543	0.748	1.378	1.831	0.318	0.238	0.375	3	2
1/4-28UNF	GH3	TUU04K3NEB5	5P	3.543	0.748	1.378	1.831	0.318	0.238	0.375	3	2
1/4-28UNF	GH3	TUU04K3NEBA	1.5P	3.543	0.748	1.378	1.831	0.318	0.238	0.375	3	2
5/16-18UNC	GH2	TUU05O2NEB5	5P	3.937	0.906	1.535	2.067	0.381	0.286	0.437	4	2
5/16-18UNC	GH2	TUU05O2NEBA	1.5P	3.937	0.906	1.535	2.067	0.381	0.286	0.437	4	2
5/16-18UNC	GH3	TUU05O3NEB5	5P	3.937	0.906	1.535	2.067	0.381	0.286	0.437	4	2
5/16-18UNC	GH3	TUU05O3NEBA	1.5P	3.937	0.906	1.535	2.067	0.381	0.286	0.437	4	2
5/16-24UNF	GH2	TUU05M2NEB5	5P	3.937	0.906	1.535	2.028	0.381	0.286	0.437	4	2
5/16-24UNF	GH2	TUU05M2NEBA	1.5P	3.937	0.906	1.535	2.028	0.381	0.286	0.437	4	2
5/16-24UNF	GH3	TUU05M3NEB5	5P	3.937	0.906	1.535	2.028	0.381	0.286	0.437	4	2
5/16-24UNF	GH3	TUU05M3NEBA	1.5P	3.937	0.906	1.535	2.028	0.381	0.286	0.437	4	2
3/8-16UNC	GH3	TUU06P3NEB5	5P	4.331	1.024	-	2.205	0.367	0.275	0.437	4	3
3/8-16UNC	GH3	TUU06P3NEBA	1.5P	4.331	1.024	-	2.205	0.367	0.275	0.437	4	3
3/8-16UNC	GH4	TUU06P4NEB5	5P	4.331	1.024	-	2.205	0.367	0.275	0.437	4	3
3/8-16UNC	GH4	TUU06P4NEBA	1.5P	4.331	1.024	-	2.205	0.367	0.275	0.437	4	3
3/8-24UNF	GH2	TUU06M2NEB5	5P	3.937	0.906	-	2.008	0.323	0.242	0.406	4	3
3/8-24UNF	GH2	TUU06M2NEBA	1.5P	3.937	0.906	-	2.008	0.323	0.242	0.406	4	3
3/8-24UNF	GH3	TUU06M3NEB5	5P	3.937	0.906	-	2.008	0.323	0.242	0.406	4	3
3/8-24UNF	GH3	TUU06M3NEBA	1.5P	3.937	0.906	-	2.008	0.323	0.242	0.406	4	3
7/16-14UNC	GH3	TUU07Q3NEB5	5P	4.331	1.024	-	2.205	0.429	0.322	0.5	4	3
7/16-14UNC	GH3	TUU07Q3NEBA	1.5P	4.331	1.024	-	2.205	0.429	0.322	0.5	4	3
7/16-14UNC	GH4	TUU07Q4NEB5	5P	4.331	1.024	-	2.205	0.429	0.322	0.5	4	3
7/16-14UNC	GH4	TUU07Q4NEBA	1.5P	4.331	1.024	-	2.205	0.429	0.322	0.5	4	3
7/16-20UNF	GH3	TUU07N3NEB5	5P	4.331	1.024	-	2.205	0.429	0.322	0.5	4	3
7/16-20UNF	GH3	TUU07N3NEBA	1.5P	4.331	1.024	-	2.205	0.429	0.322	0.5	4	3
7/16-20UNF	GH4	TUU07N4NEB5	5P	4.331	1.024	-	2.205	0.429	0.322	0.5	4	3
7/16-20UNF	GH4	TUU07N4NEBA	1.5P	4.331	1.024	-	2.205	0.429	0.322	0.5	4	3
1/2-13UNC	GH3	TUU08R3NEB5	5P	4.331	1.024	-	2.205	0.48	0.36	0.562	4	3
1/2-13UNC	GH3	TUU08R3NEBA	1.5P	4.331	1.024	-	2.205	0.48	0.36	0.562	4	3
1/2-13UNC	GH4	TUU08R4NEB5	5P	4.331	1.024	-	2.205	0.48	0.36	0.562	4	3
1/2-13UNC	GH4	TUU08R4NEBA	1.5P	4.331	1.024	-	2.205	0.48	0.36	0.562	4	3
1/2-20UNF	GH3	TUU08N3NEB5	5P	4.331	1.024	-	2.205	0.48	0.36	0.562	4	3
1/2-20UNF	GH3	TUU08N3NEBA	1.5P	4.331	1.024	-	2.205	0.48	0.36	0.562	4	3
1/2-20UNF	GH4	TUU08N4NEB5	5P	4.331	1.024	-	2.205	0.48	0.36	0.562	4	3
1/2-20UNF	GH4	TUU08N4NEBA	1.5P	4.331	1.024	-	2.205	0.48	0.36	0.562	4	3

Spiral Fluted Taps
(for blind hole)

①

Spiral Fluted Taps
(for through hole)

②

Spiral Pointed Taps
(for through hole)

③

Hand Taps

④

Cemented
Carbide Taps

⑤

Roll Taps

⑥

Special Thread Taps
Simple Inspection Tools

⑦

Pipe Taps

⑧

Thread Mills
Premium Thread Mills

⑨

Dies

⑩

Center Drills
Centering Tools

⑪

Precision Machinery/
Medical Surgical Instruments

⑫

ANSI

⑦-10

 Think threads with
YAMAWA

· This product is different from JIS products in shape and dimensions, please be careful when using.

7 Special Thread Taps / Simple Inspection Tools

Overall length	Thread length	Thread + Neck length	Shank length	Shank dia.	Size of square	Length of square
L	ℓ	ℓ_n	ℓ_s	Ds	K	ℓ_k

ANSI

① Spiral Fluted Taps
(for blind hole)

② Spiral Fluted Taps
(for through hole)

③ Spiral Pointed Taps
(for through hole)

④ Hand Taps

⑤ Cemented Carbide Taps

⑥ Roll Taps

⑦ Special Thread Taps
Simple Inspection Tools

⑧ Pipe Taps

⑨ Thread Mills
Premium Thread Mills

⑩ Dies

⑪ Center Drills
Centering Tools

⑫ Precision Machinery/
Medical Surgical Instruments

ANSI

HT OX STI

Hand Taps for Helical Coil Wire Screw Thread Inserts, Oxided



Specification

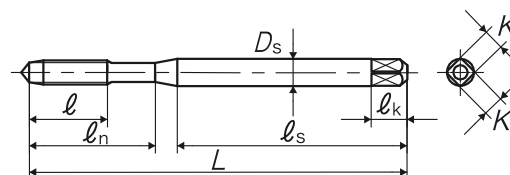


■ Hand tap to cut internal threads for helical coil to enter.

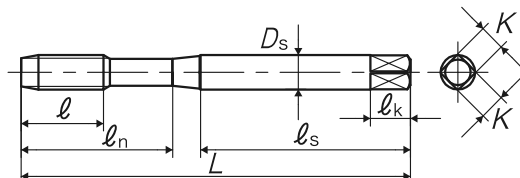
Tapping Speed depending on Materials

Low carbon steels 低炭素鋼	Medium carbon steels 中炭素鋼
5~10 (m/min)	5~10 (m/min)

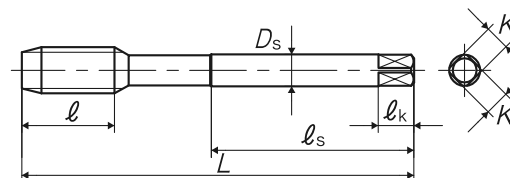
TYPE: 1



TYPE: 2



TYPE: 3



For No.10 or less, the chamfer-1.5P convex center is removed.

Segment : 1A

Size	Class	Code	Chamfer	L (inch)	ℓ (inch)	ℓ_n (inch)	ℓ_s (inch)	Ds (inch)	K (inch)	ℓ_k (inch)	No. of flutes	TYPE
For Unified Threads												
No.2-56UNC	GH1	TUUN2E1NEX5	5P	2.205	0.354	0.709	1.28	0.141	0.11	0.187	3	1
No.2-56UNC	GH1	TUUN2E1NEXA	1.5P	2.205	0.354	0.709	1.28	0.141	0.11	0.187	3	1
No.2-56UNC	GH2	TUUN2E2NEX5	5P	2.205	0.354	0.709	1.28	0.141	0.11	0.187	3	1
No.2-56UNC	GH2	TUUN2E2NEXA	1.5P	2.205	0.354	0.709	1.28	0.141	0.11	0.187	3	1
No.4-40UNC	GH1	TUUN4H1NEX5	5P	2.48	0.512	0.827	1.496	0.168	0.131	0.25	3	1
No.4-40UNC	GH1	TUUN4H1NEXA	1.5P	2.48	0.512	0.827	1.496	0.168	0.131	0.25	3	1
No.4-40UNC	GH2	TUUN4H2NEX5	5P	2.48	0.512	0.827	1.496	0.168	0.131	0.25	3	1
No.4-40UNC	GH2	TUUN4H2NEXA	1.5P	2.48	0.512	0.827	1.496	0.168	0.131	0.25	3	1
No.6-32UNC	GH1	TUUN6J1NEX5	5P	2.756	0.551	0.945	1.654	0.194	0.131	0.25	3	1
No.6-32UNC	GH1	TUUN6J1NEXA	1.5P	2.756	0.551	0.945	1.654	0.194	0.131	0.25	3	1
No.6-32UNC	GH2	TUUN6J2NEX5	5P	2.756	0.551	0.945	1.654	0.194	0.131	0.25	3	1
No.6-32UNC	GH2	TUUN6J2NEXA	1.5P	2.756	0.551	0.945	1.654	0.194	0.131	0.25	3	1
No.8-32UNC	GH1	TUUN8J1NEX5	5P	3.15	0.591	0.984	1.929	0.22	0.165	0.281	3	1
No.8-32UNC	GH1	TUUN8J1NEXA	1.5P	3.15	0.591	0.984	1.929	0.22	0.165	0.281	3	1
No.8-32UNC	GH2	TUUN8J2NEX5	5P	3.15	0.591	0.984	1.929	0.22	0.165	0.281	3	1
No.8-32UNC	GH2	TUUN8J2NEXA	1.5P	3.15	0.591	0.984	1.929	0.22	0.165	0.281	3	1

ANSI

⑦-11

Think threads with
YAMAWA

· This product is different from JIS products in shape and dimensions, please be careful when using.

Overall length	Thread length	Thread + Neck length	Shank length	Shank dia.	Size of square	Length of square
L	ℓ	ℓn	ℓs	Ds	K	ℓk

7

ANSI

Size	Class	Code	Chamfer	L (inch)	ℓ (inch)	ℓn (inch)	ℓs (inch)	Ds (inch)	K (inch)	ℓk (inch)	No. of flutes	TYPE
No.10-24UNC	GH2	TUUNAM2NEX5	5P	3.15	0.591	1.181	1.713	0.255	0.191	0.312	3	1
No.10-24UNC	GH2	TUUNAM2NEXA	1.5P	3.15	0.591	1.181	1.713	0.255	0.191	0.312	3	1
No.10-24UNC	GH3	TUUNAM3NEX5	5P	3.15	0.591	1.181	1.713	0.255	0.191	0.312	3	1
No.10-24UNC	GH3	TUUNAM3NEXA	1.5P	3.15	0.591	1.181	1.713	0.255	0.191	0.312	3	1
No.10-32UNF	GH2	TUUNAJ2NEX5	5P	3.15	0.591	1.181	1.713	0.255	0.191	0.312	3	1
No.10-32UNF	GH2	TUUNAJ2NEXA	1.5P	3.15	0.591	1.181	1.713	0.255	0.191	0.312	3	1
No.10-32UNF	GH3	TUUNAJ3NEX5	5P	3.15	0.591	1.181	1.713	0.255	0.191	0.312	3	1
No.10-32UNF	GH3	TUUNAJ3NEXA	1.5P	3.15	0.591	1.181	1.713	0.255	0.191	0.312	3	1
1/4-20UNC	GH2	TUU04N2NEX5	5P	3.543	0.748	1.378	1.831	0.318	0.238	0.375	3	2
1/4-20UNC	GH2	TUU04N2NEXA	1.5P	3.543	0.748	1.378	1.831	0.318	0.238	0.375	3	2
1/4-20UNC	GH3	TUU04N3NEX5	5P	3.543	0.748	1.378	1.831	0.318	0.238	0.375	3	2
1/4-20UNC	GH3	TUU04N3NEXA	1.5P	3.543	0.748	1.378	1.831	0.318	0.238	0.375	3	2
1/4-28UNF	GH2	TUU04K2NEX5	5P	3.543	0.748	1.378	1.831	0.318	0.238	0.375	3	2
1/4-28UNF	GH2	TUU04K2NEXA	1.5P	3.543	0.748	1.378	1.831	0.318	0.238	0.375	3	2
1/4-28UNF	GH3	TUU04K3NEX5	5P	3.543	0.748	1.378	1.831	0.318	0.238	0.375	3	2
1/4-28UNF	GH3	TUU04K3NEXA	1.5P	3.543	0.748	1.378	1.831	0.318	0.238	0.375	3	2
5/16-18UNC	GH2	TUU05O2NEX5	5P	3.937	0.906	1.535	2.067	0.381	0.286	0.437	4	2
5/16-18UNC	GH2	TUU05O2NEXA	1.5P	3.937	0.906	1.535	2.067	0.381	0.286	0.437	4	2
5/16-18UNC	GH3	TUU05O3NEX5	5P	3.937	0.906	1.535	2.067	0.381	0.286	0.437	4	2
5/16-18UNC	GH3	TUU05O3NEXA	1.5P	3.937	0.906	1.535	2.067	0.381	0.286	0.437	4	2
5/16-24UNF	GH2	TUU05M2NEX5	5P	3.937	0.906	1.535	2.028	0.381	0.286	0.437	4	2
5/16-24UNF	GH2	TUU05M2NEXA	1.5P	3.937	0.906	1.535	2.028	0.381	0.286	0.437	4	2
5/16-24UNF	GH3	TUU05M3NEX5	5P	3.937	0.906	1.535	2.028	0.381	0.286	0.437	4	2
5/16-24UNF	GH3	TUU05M3NEXA	1.5P	3.937	0.906	1.535	2.028	0.381	0.286	0.437	4	2
3/8-16UNC	GH3	TUU06P3NEX5	5P	4.331	1.024	-	2.205	0.367	0.275	0.437	4	3
3/8-16UNC	GH3	TUU06P3NEXA	1.5P	4.331	1.024	-	2.205	0.367	0.275	0.437	4	3
3/8-16UNC	GH4	TUU06P4NEX5	5P	4.331	1.024	-	2.205	0.367	0.275	0.437	4	3
3/8-16UNC	GH4	TUU06P4NEXA	1.5P	4.331	1.024	-	2.205	0.367	0.275	0.437	4	3
3/8-24UNF	GH2	TUU06M2NEX5	5P	3.937	0.906	-	2.008	0.323	0.242	0.406	4	3
3/8-24UNF	GH2	TUU06M2NEXA	1.5P	3.937	0.906	-	2.008	0.323	0.242	0.406	4	3
3/8-24UNF	GH3	TUU06M3NEX5	5P	3.937	0.906	-	2.008	0.323	0.242	0.406	4	3
3/8-24UNF	GH3	TUU06M3NEXA	1.5P	3.937	0.906	-	2.008	0.323	0.242	0.406	4	3
7/16-14UNC	GH3	TUU07Q3NEX5	5P	4.331	1.024	-	2.205	0.429	0.322	0.5	4	3
7/16-14UNC	GH3	TUU07Q3NEXA	1.5P	4.331	1.024	-	2.205	0.429	0.322	0.5	4	3
7/16-14UNC	GH4	TUU07Q4NEX5	5P	4.331	1.024	-	2.205	0.429	0.322	0.5	4	3
7/16-14UNC	GH4	TUU07Q4NEXA	1.5P	4.331	1.024	-	2.205	0.429	0.322	0.5	4	3
7/16-20UNF	GH3	TUU07N3NEX5	5P	4.331	1.024	-	2.205	0.429	0.322	0.5	4	3
7/16-20UNF	GH3	TUU07N3NEXA	1.5P	4.331	1.024	-	2.205	0.429	0.322	0.5	4	3
7/16-20UNF	GH4	TUU07N4NEX5	5P	4.331	1.024	-	2.205	0.429	0.322	0.5	4	3
7/16-20UNF	GH4	TUU07N4NEXA	1.5P	4.331	1.024	-	2.205	0.429	0.322	0.5	4	3
1/2-13UNC	GH3	TUU08R3NEX5	5P	4.331	1.024	-	2.205	0.48	0.36	0.562	4	3
1/2-13UNC	GH3	TUU08R3NEXA	1.5P	4.331	1.024	-	2.205	0.48	0.36	0.562	4	3
1/2-13UNC	GH4	TUU08R4NEX5	5P	4.331	1.024	-	2.205	0.48	0.36	0.562	4	3
1/2-13UNC	GH4	TUU08R4NEXA	1.5P	4.331	1.024	-	2.205	0.48	0.36	0.562	4	3
1/2-20UNF	GH3	TUU08N3NEX5	5P	4.331	1.024	-	2.205	0.48	0.36	0.562	4	3
1/2-20UNF	GH3	TUU08N3NEXA	1.5P	4.331	1.024	-	2.205	0.48	0.36	0.562	4	3
1/2-20UNF	GH4	TUU08N4NEX5	5P	4.331	1.024	-	2.205	0.48	0.36	0.562	4	3
1/2-20UNF	GH4	TUU08N4NEXA	1.5P	4.331	1.024	-	2.205	0.48	0.36	0.562	4	3

Spiral Fluted Taps
(for blind hole)

①

Spiral Fluted Taps
(for through hole)

②

Spiral Pointed Taps
(for through hole)

③

Hand Taps

④

Cemented
Carbide Taps

⑤

Roll Taps

⑥

Special Thread Taps
Simple Inspection Tools

⑦

Pipe Taps

⑧

Thread Mills
Premium Thread Mills

⑨

Dies

⑩

Center Drills
Centering Tools

⑪

Precision Machinery/
Medical Surgical Instruments

⑫

ANSI

⑦-12

 Think threads with
YAMAWA

· This product is different from JIS products in shape and dimensions, please be careful when using.

7 Special Thread Taps / Simple Inspection Tools

JIS

① Spiral Fluted Taps
(for blind hole)

② Spiral Fluted Taps
(for through hole)

③ Spiral Pointed Taps
(for through hole)

④ Hand Taps

⑤ Cemented
Carbide Taps

⑥ Roll Taps

⑦ Special Thread Taps
Simple Inspection Tools

⑧ Pipe Taps

⑨ Thread Mills
Premium Thread Mills

⑩ Dies

⑪ Center Drills
Centering Tools

⑫ Precision Machinery/
Medical Surgical Instruments

JIS

⑦-13

Overall length	Thread length	Thread + Neck length	Shank length	Shank dia.	Size of square	Length of square
L	ℓ	ℓ_n	ℓ_s	Ds	K	ℓ_k

AL-SP STI

Spiral Fluted Taps for Aluminum Materials (for Helical Coil Wire Screw Thread Inserts)



Specification



Tapping Speed depending on Materials

Brass 黄銅	Brass castings 黄銅鑄物	Bronze 青銅	Wrought aluminum アルミ圧延材	Aluminum alloy castings アルミ合金鑄物	Magnesium alloy die castings マグネシウム合金鑄物	Zinc alloy castings 亜鉛合金鑄物
10~25 (m/min)	10~25 (m/min)	10~25 (m/min)	10~25 (m/min)	10~25 (m/min)	10~25 (m/min)	10~25 (m/min)

■ This is used to cut a comparatively soft material, such as aluminum, and create an internal thread for accommodating a helical coil wire screw thread insert, in order to reinforce the internal thread and increase durability.

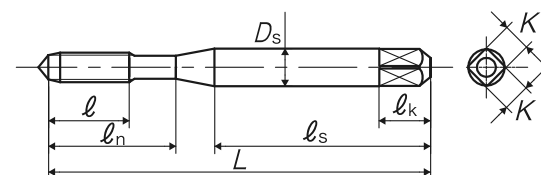
■ Diameter of the internal screw threads into which the insert coil is inserted, is larger than that of the corresponding external screw threads by the thickness of the coil. Therefore, the internal screw thread diameter of the insert coil thread tap is also larger than its nominal diameter.

■ The bored hole size needs to be also larger. Make sure to prepare an appropriate bored hole size before tapping.

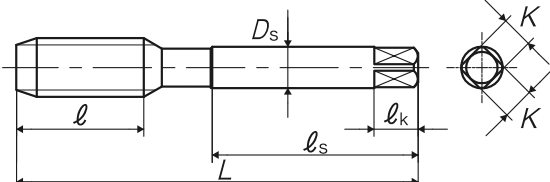
■ The shank diameter is also larger. Make sure to use an appropriate tap holder.

■ Oversize taps of Ib+30 are also available to allow for shrinkage of internal threads.

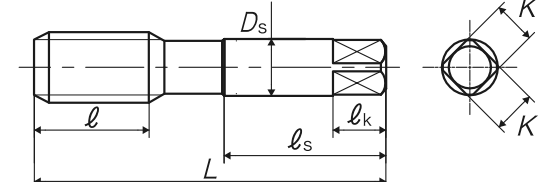
TYPE: 1



TYPE: 2



TYPE: 3



Overize
Segment : 1C

Size	Class	Code	Chamfer	Basic major dia (mm)	L (mm)	ℓ (mm)	ℓ_n (mm)	ℓ_s (mm)	Ds (mm)	K (mm)	ℓ_k (mm)	No. of flutes	TYPE	MSRP
For Metric Threads														
M3 × 0.5	Ib	SW3.0G1LEN	2.5P	3.650	52	7.5	17	29	5	4	7	3	1	¥ 2,800
M3 × 0.5	Ib+30	SW3.0G3LEN	2.5P	3.650	52	7.5	17	29	5	4	7	3	1	¥ 2,800
M4 × 0.7	Ib	SW4.0I1LEN	2.5P	4.909	60	13	22	33	5.5	4.5	7	3	1	¥ 2,660
M4 × 0.7	Ib+30	SW4.0I3LEN	2.5P	4.909	60	13	22	33	5.5	4.5	7	3	1	¥ 2,660
M5 × 0.8	Ib	SW5.0K1LEN	2.5P	6.039	62	15	26	33	6	4.5	7	3	1	¥ 2,550
M5 × 0.8	Ib+30	SW5.0K3LEN	2.5P	6.039	62	15	26	33	6	4.5	7	3	1	¥ 2,550
M6 × 1	Ib	SW6.0M1LEN	2.5P	7.299	70	19	-	36	6.2	5	8	3	2	¥ 2,650
M6 × 1	Ib+30	SW6.0M3LEN	2.5P	7.299	70	19	-	36	6.2	5	8	3	2	¥ 2,650
M8 × 1.25	Ib	SW8.0N1LEN	2.5P	9.624	75	23	-	38	7	5.5	8	3	2	¥ 3,720
M8 × 1.25	Ib+30	SW8.0N3LEN	2.5P	9.624	75	23	-	38	7	5.5	8	3	2	¥ 3,720
M10 × 1.5	Ib	SW10.0O1LEN	2.5P	11.948	82	26	-	42	8.5	6.5	9	3	2	¥ 4,990
M10 × 1.5	Ib+30	SW10.0O3LEN	2.5P	11.948	82	26	-	42	8.5	6.5	9	3	2	¥ 4,990
M10 × 1.25	Ib	SW10.0N1LEN	2.5P	11.624	82	26	-	42	8.5	6.5	9	3	2	¥ 4,990*
M12 × 1.75	Ib	SW12.0P1LEN	2.5P	14.273	95	26	-	48	12.5	10	13	3	2	¥ 6,860
M12 × 1.5	Ib	SW12.0O1LEN	2.5P	13.948	88	26	-	45	10.5	8	11	3	2	¥ 6,860*
M12 × 1.25	Ib	SW12.0N1LEN	2.5P	13.624	88	26	-	45	10.5	8	11	3	2	¥ 6,860*

Think threads with
YAMAWA

*: Specified Distribution Items. Made to order products.

Overall length	Thread length	Thread + Neck length	Shank length	Shank dia.	Size of square	Length of square
L	ℓ	ℓn	ℓs	Ds	K	ℓk

7

JIS

Size	Class	Code	Chamfer	Basic major dia (mm)	L (mm)	ℓ (mm)	ℓn (mm)	ℓs (mm)	Ds (mm)	K (mm)	ℓk (mm)	No. of flutes	TYPE	MSRP
M14 × 2	I b	SW014Q1LEN	2.5P	16.598	100	33	-	51	14	11	14	3	2	¥ 9,030 ※
M14 × 1.5	I b	SW014O1LEN	2.5P	15.948	95	26	-	48	12.5	10	13	3	2	¥ 9,030 ※
M16 × 2	I b	SW016Q1LEN	2.5P	18.598	105	33	-	50	15	12	15	4	3	¥ 13,200
M16 × 1.5	I b	SW016O1LEN	2.5P	17.948	100	33	-	51	14	11	14	4	2	¥ 13,200 ※
M18 × 2.5	I b	SW018R1LEN	2.5P	21.248	115	33	-	55	17	13	16	4	3	¥ 21,600 ※
M18 × 1.5	I b	SW018O1LEN	2.5P	19.948	105	33	-	50	15	12	15	4	3	¥ 21,600 ※
M20 × 2.5	I b	SW020R1LEN	2.5P	23.248	120	39	-	55	19	15	18	4	3	¥ 25,700
M20 × 1.5	I b	SW020O1LEN	2.5P	21.948	115	33	-	55	17	13	16	4	3	¥ 25,700 ※
M22 × 2.5	I b	SW022R1LEN	2.5P	25.248	125	39	-	58	19	15	18	4	3	¥ 33,700 ※
M24 × 3	I b	SW024S1LEN	2.5P	27.897	135	46	-	62	23	17	20	4	3	¥ 41,700

Spiral Fluted Taps
(for blind hole)

①

Spiral Fluted Taps
(for through hole)

②

Spiral Pointed Taps
(for through hole)

③

Hand Taps

④

Cemented
Carbide Taps

⑤

Roll Taps

⑥

Special Thread Taps
Simple Inspection Tools

⑦

Pipe Taps

⑧

Thread Mills
Premium Thread Mills

⑨

Dies

⑩

Center Drills
Centering Tools

⑪

Precision Machinery/
Medical Surgical Instruments

⑫

JIS

⑦-14

※ = Specified Distribution Items. Made to order products.

Think threads with
YAMAWA

7 Special Thread Taps / Simple Inspection Tools

Overall length	Thread length	Thread + Neck length	Shank length	Shank dia.	Size of square	Length of square
L	ℓ	ℓ_n	ℓ_s	Ds	K	ℓ_k

ANSI

① Spiral Fluted Taps
(for blind hole)

② Spiral Fluted Taps
(for through hole)

③ Spiral Pointed Taps
(for through hole)

④ Hand Taps

⑤ Cemented Carbide Taps

⑥ Roll Taps

⑦ Special Thread Taps
Simple Inspection Tools

⑧ Pipe Taps

⑨ Thread Mills
Premium Thread Mills

Dies

⑩

⑪ Center Drills
Centering Tools

⑫ Precision Machinery/
Medical Surgical Instruments

ANSI

SP STI



Spiral Fluted Taps for Helical Coil Wire Screw Thread Inserts

Specification

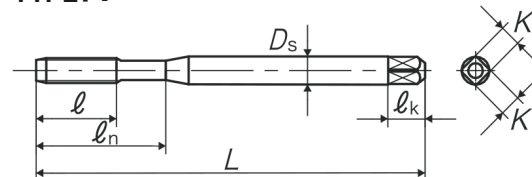


■ Spiral pointed tap to cut internal threads for helical coil to enter.

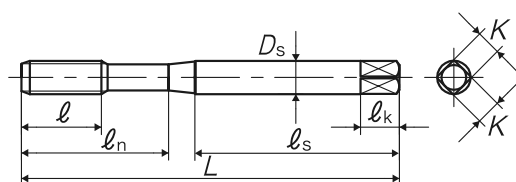
Tapping Speed depending on Materials

Brass 黄銅	Brass castings 黄銅鑄物	Bronze 青銅	Wrought aluminum アルミ圧延材	Aluminum alloy castings アルミ合金鑄物	Magnesium alloy die castings マグネシウム合金鑄物	Zinc alloy castings 亜鉛合金鑄物
5~15 (m/min)	5~15 (m/min)	5~15 (m/min)	5~15 (m/min)	5~15 (m/min)	5~15 (m/min)	5~15 (m/min)

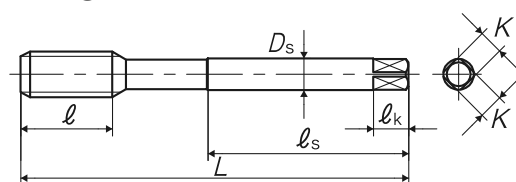
TYPE: 1



TYPE: 2



TYPE: 3



Segment : 1C

Size	Class	Code	Chamfer	L (inch)	ℓ (inch)	ℓ_n (inch)	ℓ_s (inch)	Ds (inch)	K (inch)	ℓ_k (inch)	No. of flutes	TYPE
For Unified Threads												
No.2-56UNC	GH1	SUUN2E1NEB	2P	2.205	0.354	0.709	1.28	0.141	0.11	0.187	2	1
No.2-56UNC	GH2	SUUN2E2NEB	2P	2.205	0.354	0.709	1.28	0.141	0.11	0.187	2	1
No.4-40UNC	GH1	SUUN4H1NEB	2P	2.48	0.512	0.827	1.496	0.168	0.131	0.25	2	1
No.4-40UNC	GH2	SUUN4H2NEB	2P	2.48	0.512	0.827	1.496	0.168	0.131	0.25	2	1
No.6-32UNC	GH1	SUUN6J1NEB	2P	2.756	0.551	0.945	1.654	0.194	0.131	0.25	3	1
No.6-32UNC	GH2	SUUN6J2NEB	2P	2.756	0.551	0.945	1.654	0.194	0.131	0.25	3	1
No.8-32UNC	GH1	SUUN8J1NEB	2P	3.15	0.591	0.984	1.929	0.22	0.165	0.281	3	1
No.8-32UNC	GH2	SUUN8J2NEB	2P	3.15	0.591	0.984	1.929	0.22	0.165	0.281	3	1
No.10-24UNC	GH2	SUUNAM2NEB	2P	3.15	0.591	1.181	1.713	0.255	0.191	0.312	3	1
No.10-24UNC	GH3	SUUNAM3NEB	2P	3.15	0.591	1.181	1.713	0.255	0.191	0.312	3	1
No.10-32UNF	GH2	SUUNAJ2NEB	2P	3.15	0.591	1.181	1.713	0.255	0.191	0.312	3	1
No.10-32UNF	GH3	SUUNAJ3NEB	2P	3.15	0.591	1.181	1.713	0.255	0.191	0.312	3	1
1/4-20UNC	GH2	SUU04N2NEB	2P	3.543	0.748	1.378	1.831	0.318	0.238	0.375	3	2
1/4-20UNC	GH3	SUU04N3NEB	2P	3.543	0.748	1.378	1.831	0.318	0.238	0.375	3	2
1/4-28UNF	GH2	SUU04K2NEB	2P	3.543	0.748	1.378	1.831	0.318	0.238	0.375	3	2

ANSI

⑦-15

Think threads with
YAMAWA

This product is different from JIS products in shape and dimensions, please be careful when using.

Overall length	Thread length	Thread + Neck length	Shank length	Shank dia.	Size of square	Length of square
L	ℓ	ℓn	ℓs	Ds	K	ℓk

7

ANSI

Size	Class	Code	Chamfer	L (inch)	ℓ (inch)	ℓn (inch)	ℓs (inch)	Ds (inch)	K (inch)	ℓk (inch)	No. of flutes	TYPE
1/4-28UNF	GH3	SUU04K3NEB	2P	3.543	0.748	1.378	1.831	0.318	0.238	0.375	3	2
5/16-18UNC	GH2	SUU05O2NEB	2P	3.937	0.906	1.535	2.067	0.381	0.286	0.437	3	2
5/16-18UNC	GH3	SUU05O3NEB	2P	3.937	0.906	1.535	2.067	0.381	0.286	0.437	3	2
5/16-24UNF	GH2	SUU05M2NEB	2P	3.937	0.906	1.535	2.028	0.381	0.286	0.437	3	2
5/16-24UNF	GH3	SUU05M3NEB	2P	3.937	0.906	1.535	2.028	0.381	0.286	0.437	3	2
3/8-16UNC	GH2	SUU06P2NEB	2P	4.331	1.024	-	2.205	0.367	0.275	0.437	3	3
3/8-16UNC	GH3	SUU06P3NEB	2P	4.331	1.024	-	2.205	0.367	0.275	0.437	3	3
3/8-24UNF	GH2	SUU06M2NEB	2P	3.937	0.906	-	2.008	0.323	0.242	0.406	3	3
3/8-24UNF	GH3	SUU06M3NEB	2P	3.937	0.906	-	2.008	0.323	0.242	0.406	3	3
7/16-14UNC	GH2	SUU07Q2NEB	2P	4.331	1.024	-	2.205	0.429	0.322	0.5	3	3
7/16-14UNC	GH3	SUU07Q3NEB	2P	4.331	1.024	-	2.205	0.429	0.322	0.5	3	3
7/16-20UNF	GH2	SUU07N2NEB	2P	4.331	1.024	-	2.205	0.429	0.322	0.5	3	3
7/16-20UNF	GH3	SUU07N3NEB	2P	4.331	1.024	-	2.205	0.429	0.322	0.5	3	3
1/2-13UNC	GH2	SUU08R2NEB	2P	4.331	1.024	-	2.205	0.48	0.36	0.562	3	3
1/2-13UNC	GH3	SUU08R3NEB	2P	4.331	1.024	-	2.205	0.48	0.36	0.562	3	3
1/2-20UNF	GH2	SUU08N2NEB	2P	4.331	1.024	-	2.205	0.48	0.36	0.562	3	3
1/2-20UNF	GH3	SUU08N3NEB	2P	4.331	1.024	-	2.205	0.48	0.36	0.562	3	3

Spiral Fluted Taps
(for blind hole)

①

Spiral Fluted Taps
(for through hole)

②

Spiral Pointed Taps
(for through hole)

③

Hand Taps

④

Cemented
Carbide Taps

⑤

Roll Taps

⑥

Special Thread Taps
Simple Inspection Tools

⑦

Pipe Taps

⑧

Thread Mills
Premium Thread Mills

⑨

Dies

⑩

Center Drills
Centering Tools

⑪

Precision Machinery/
Medical Surgical Instruments

⑫

ANSI

⑦-16

7 Special Thread Taps / Simple Inspection Tools

Overall length	Thread length	Thread + Neck length	Shank length	Shank dia.	Size of square	Length of square
L	ℓ	ℓ_n	ℓ_s	Ds	K	ℓ_k

ANSI

① Spiral Fluted Taps
(for blind hole)

② Spiral Fluted Taps
(for through hole)

③ Spiral Pointed Taps
(for through hole)

④ Hand Taps

⑤ Cemented Carbide Taps

⑥ Roll Taps

⑦ Special Thread Taps
Simple Inspection Tools

⑧ Pipe Taps

⑨ Thread Mills
Premium Thread Mills

⑩ Dies

⑪ Center Drills
Centering Tools

⑫ Precision Machinery/
Medical Surgical Instruments

ANSI

SP OX STI



Spiral Fluted Taps for Helical Coil Wire Screw Thread Inserts, Oxided

Specification

HSS

OX
Oxide



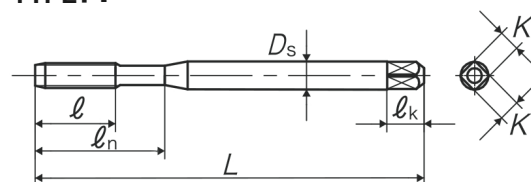
Tapping Speed depending on Materials

Low carbon steels
低炭素鋼
5~10
(m/min)

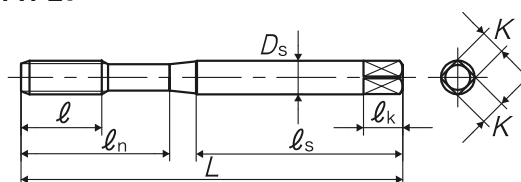
Medium carbon steels
中炭素鋼
5~10
(m/min)

■ On parts made from comparatively soft materials, helical coil wire thread inserts are often used in order to strengthen internal screws and increase toughness. SP OX STI produces threads oversize enough to accommodate helical coil wire thread inserts.

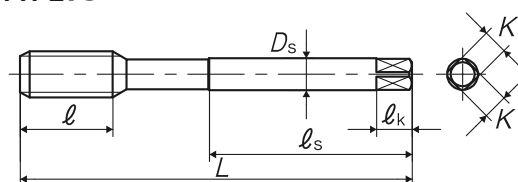
TYPE: 1



TYPE: 2



TYPE: 3



Segment : 1C

Size	Class	Code	Chamfer	L (inch)	ℓ (inch)	ℓ_n (inch)	ℓ_s (inch)	Ds (inch)	K (inch)	ℓ_k (inch)	No. of flutes	TYPE
For Unified Threads												
No.2-56UNC	GH1	SUUN2E1NEX	2P	2.205	0.354	0.709	1.28	0.141	0.11	0.187	2	1
No.2-56UNC	GH2	SUUN2E2NEX	2P	2.205	0.354	0.709	1.28	0.141	0.11	0.187	2	1
No.4-40UNC	GH1	SUUN4H1NEX	2P	2.48	0.512	0.827	1.496	0.168	0.131	0.25	2	1
No.4-40UNC	GH2	SUUN4H2NEX	2P	2.48	0.512	0.827	1.496	0.168	0.131	0.25	2	1
No.6-32UNC	GH1	SUUN6J1NEX	2P	2.756	0.551	0.945	1.654	0.194	0.131	0.25	3	1
No.6-32UNC	GH2	SUUN6J2NEX	2P	2.756	0.551	0.945	1.654	0.194	0.131	0.25	3	1
No.8-32UNC	GH1	SUUN8J1NEX	2P	3.15	0.591	0.984	1.929	0.22	0.165	0.281	3	1
No.8-32UNC	GH2	SUUN8J2NEX	2P	3.15	0.591	0.984	1.929	0.22	0.165	0.281	3	1
No.10-24UNC	GH2	SUUNAM2NEX	2P	3.15	0.591	1.181	1.713	0.255	0.191	0.312	3	1
No.10-24UNC	GH3	SUUNAM3NEX	2P	3.15	0.591	1.181	1.713	0.255	0.191	0.312	3	1
No.10-32UNF	GH2	SUUNAJ2NEX	2P	3.15	0.591	1.181	1.713	0.255	0.191	0.312	3	1
No.10-32UNF	GH3	SUUNAJ3NEX	2P	3.15	0.591	1.181	1.713	0.255	0.191	0.312	3	1
1/4-20UNC	GH2	SUU04N2NEX	2P	3.543	0.748	1.378	1.831	0.318	0.238	0.375	3	2
1/4-20UNC	GH3	SUU04N3NEX	2P	3.543	0.748	1.378	1.831	0.318	0.238	0.375	3	2
1/4-28UNF	GH2	SUU04K2NEX	2P	3.543	0.748	1.378	1.831	0.318	0.238	0.375	3	2
1/4-28UNF	GH3	SUU04K3NEX	2P	3.543	0.748	1.378	1.831	0.318	0.238	0.375	3	2
5/16-18UNC	GH2	SUU05O2NEX	2P	3.937	0.906	1.535	2.067	0.381	0.286	0.437	3	2

ANSI

Think threads with
YAMAWA

· This product is different from JIS products in shape and dimensions, please be careful when using.

Overall length	Thread length	Thread + Neck length	Shank length	Shank dia.	Size of square	Length of square
L	ℓ	ℓn	ℓs	Ds	K	ℓk

7

ANSI

Size	Class	Code	Chamfer	L (inch)	ℓ (inch)	ℓn (inch)	ℓs (inch)	Ds (inch)	K (inch)	ℓk (inch)	No. of flutes	TYPE
5/16-18UNC	GH3	SUU05O3NEX	2P	3.937	0.906	1.535	2.067	0.381	0.286	0.437	3	2
5/16-24UNF	GH2	SUU05M2NEX	2P	3.937	0.906	1.535	2.028	0.381	0.286	0.437	3	2
5/16-24UNF	GH3	SUU05M3NEX	2P	3.937	0.906	1.535	2.028	0.381	0.286	0.437	3	2
3/8-16UNC	GH2	SUU06P2NEX	2P	4.331	1.024	-	2.205	0.367	0.275	0.437	3	3
3/8-16UNC	GH3	SUU06P3NEX	2P	4.331	1.024	-	2.205	0.367	0.275	0.437	3	3
3/8-24UNF	GH2	SUU06M2NEX	2P	3.937	0.906	-	2.008	0.323	0.242	0.406	3	3
3/8-24UNF	GH3	SUU06M3NEX	2P	3.937	0.906	-	2.008	0.323	0.242	0.406	3	3
7/16-14UNC	GH2	SUU07Q2NEX	2P	4.331	1.024	-	2.205	0.429	0.322	0.5	3	3
7/16-14UNC	GH3	SUU07Q3NEX	2P	4.331	1.024	-	2.205	0.429	0.322	0.5	3	3
7/16-20UNF	GH2	SUU07N2NEX	2P	4.331	1.024	-	2.205	0.429	0.322	0.5	3	3
7/16-20UNF	GH3	SUU07N3NEX	2P	4.331	1.024	-	2.205	0.429	0.322	0.5	3	3
1/2-13UNC	GH2	SUU08R2NEX	2P	4.331	1.024	-	2.205	0.48	0.36	0.562	3	3
1/2-13UNC	GH3	SUU08R3NEX	2P	4.331	1.024	-	2.205	0.48	0.36	0.562	3	3
1/2-20UNF	GH2	SUU08N2NEX	2P	4.331	1.024	-	2.205	0.48	0.36	0.562	3	3
1/2-20UNF	GH3	SUU08N3NEX	2P	4.331	1.024	-	2.205	0.48	0.36	0.562	3	3

Spiral Fluted Taps
(for blind hole)

①

Spiral Fluted Taps
(for through hole)

②

Spiral Pointed Taps
(for through hole)

③

Hand Taps

④

Cemented
Carbide Taps

⑤

Roll Taps

⑥

Special Thread Taps
Simple Inspection Tools

⑦

Pipe Taps

⑧

Thread Mills
Premium Thread Mills

⑨

Dies

⑩

Center Drills
Centering Tools

⑪

Precision Machinery/
Medical Surgical Instruments

⑫

ANSI

⑦-18

7 Special Thread Taps / Simple Inspection Tools

Overall length	Thread length	Thread + Neck length	Shank dia.	Size of square	Length of square
L	ℓ	ℓ_n	Ds	K	ℓ_k

ANSI

ZELX NI SP STI



Spiral Fluted Taps for Helical Coil Wire Screw Thread Inserts and for Nickel Base Alloys

Specification

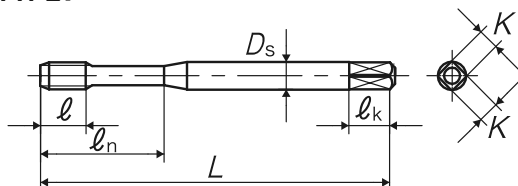


Tapping Speed depending on Materials

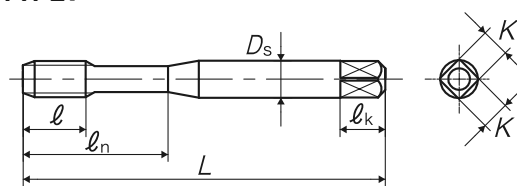
Medium carbon steels 中炭素鋼	High carbon steels 高炭素鋼	Stainless steels ステンレス鋼	Nickel base alloys ニッケル基合金
5~15 (m/min)	5~15 (m/min)	5~15 (m/min)	5~10 (m/min)

ZELX NI SP STI is the tap for nickel base alloys which, with nickel as main composition, have much higher corrosion resistance and higher heat resistance than steels, and produces threads oversize enough to accommodate helical coil wire thread inserts.

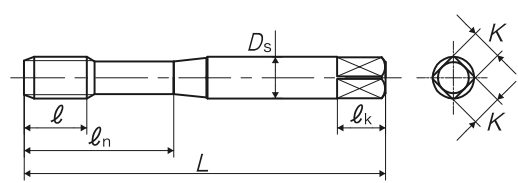
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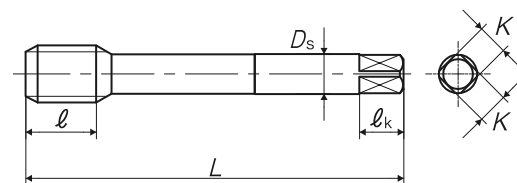
TYPE:2



TYPE:3



TYPE:4



Segment : 1D

Size	Class	Code	Chamfer	L (inch)	ℓ (inch)	ℓ_n (inch)	Ds (inch)	K (inch)	ℓ_k (inch)	No. of flutes	TYPE
For Unified Threads											
No.2-56UNC	GH2	Y87400	3P	1.875	0.236	0.562	0.141	0.11	0.187	3	1
No.4-40UNC	GH1	Y87403	3P	2	0.276	0.687	0.141	0.11	0.187	3	1
No.4-40UNC	GH2	Y87404	3P	2	0.276	0.687	0.141	0.11	0.187	3	1
No.4-40UNC	GH2	Y87004	1.5P	2	0.276	0.687	0.141	0.11	0.187	3	1
No.4-40UNC	GH3	Y87420	3P	2	0.276	0.687	0.141	0.11	0.187	3	1
No.4-40UNC	GH3	Y87419	1.5P	2	0.276	0.687	0.141	0.11	0.187	3	1
No.6-32UNC	GH2	Y87408	3P	2.375	0.354	0.875	0.194	0.152	0.25	3	1
No.6-32UNC	GH2	Y87008	1.5P	2.375	0.354	0.875	0.194	0.152	0.25	3	1
No.6-32UNC	GH3	Y87424	3P	2.375	0.354	0.875	0.194	0.152	0.25	3	1
No.6-32UNC	GH3	Y87425	1.5P	2.375	0.354	0.875	0.194	0.152	0.25	3	1
No.6-32UNC	GH5	Y87042	1.5P	2.375	0.354	0.875	0.194	0.152	0.25	3	1
No.6-40UNF	GH2	Y87409	3P	2.125	0.276	0.75	0.168	0.131	0.25	3	1
No.8-32UNC	GH1	Y81409	3P	2.375	0.354	0.937	0.22	0.165	0.281	3	1
No.8-32UNC	GH2	Y87410	3P	2.375	0.354	0.937	0.22	0.165	0.281	3	1
No.8-32UNC	GH2	Y87026	1.5P	2.375	0.354	0.937	0.22	0.165	0.281	3	1
No.8-32UNC	GH3	Y87426	3P	2.375	0.354	0.937	0.22	0.165	0.281	3	1

ANSI

Overall length	Thread length	Thread + Neck length	Shank dia.	Size of square	Length of square
L	ℓ	ℓn	Ds	K	ℓk

7

ANSI

Size	Class	Code	Chamfer	L (inch)	ℓ (inch)	ℓn (inch)	Ds (inch)	K (inch)	ℓk (inch)	No. of flutes	TYPE
No.10-24UNC	GH2	Y87412	3P	2.5	0.433	1	0.255	0.191	0.312	3	2
No.10-24UNC	GH2	Y87012	1.5P	2.5	0.433	1	0.255	0.191	0.312	3	2
No.10-24UNC	GH3	Y87428	3P	2.5	0.433	1	0.255	0.191	0.312	3	2
No.10-24UNC	GH3	Y87028	1.5P	2.5	0.433	1	0.255	0.191	0.312	3	2
No.10-24UNC	GH5	Y87445	1.5P	2.5	0.433	1	0.255	0.191	0.312	3	2
No.10-32UNF	GH2	Y87413	3P	2.5	0.354	1	0.255	0.191	0.312	3	2
No.10-32UNF	GH3	Y87429	3P	2.5	0.354	1	0.255	0.191	0.312	3	2
No.10-32UNF	GH3	Y87029	1.5P	2.5	0.354	1	0.255	0.191	0.312	3	2
No.10-32UNF	GH5	Y87057	1.5P	2.5	0.354	1	0.255	0.191	0.312	3	2
1/4-20UNC	GH2	Y87448	3P	2.718	0.472	1.125	0.318	0.238	0.375	3	3
1/4-20UNC	GH3	Y87458	3P	2.718	0.472	1.125	0.318	0.238	0.375	3	3
1/4-20UNC	GH3	Y87058	1.5P	2.718	0.472	1.125	0.318	0.238	0.375	3	3
1/4-20UNC	GH5	Y87090	1.5P	2.718	0.472	1.125	0.318	0.238	0.375	3	3
1/4-28UNF	GH2	Y87449	3P	2.718	0.394	1.125	0.318	0.238	0.375	3	3
1/4-28UNF	GH2	Y87059	1.5P	2.718	0.394	1.125	0.318	0.238	0.375	3	3
1/4-28UNF	GH3	Y87459	3P	2.718	0.394	1.125	0.318	0.238	0.375	3	3
1/4-28UNF	GH5	Y87091	1.5P	2.718	0.394	1.125	0.318	0.238	0.375	3	3
5/16-18UNC	GH2	Y87060	1.5P	2.937	0.551	1.25	0.381	0.286	0.437	3	3
5/16-18UNC	GH3	Y87460	3P	2.937	0.551	1.25	0.381	0.286	0.437	3	3
5/16-18UNC	GH4	Y87470	3P	2.937	0.551	1.25	0.381	0.286	0.437	3	3
5/16-24UNF	GH2	Y87451	3P	2.937	0.394	1.25	0.381	0.286	0.437	3	3
5/16-24UNF	GH3	Y87461	3P	2.937	0.394	1.25	0.381	0.286	0.437	3	3
5/16-24UNF	GH3	Y87061	1.5P	2.937	0.394	1.25	0.381	0.286	0.437	3	3
3/8-16UNC	GH3	Y87462	3P	3.375	0.63	-	0.367	0.275	0.437	3	4
3/8-16UNC	GH3	Y87062	1.5P	3.375	0.63	-	0.367	0.275	0.437	3	4
3/8-16UNC	GH4	Y87472	3P	3.375	0.63	-	0.367	0.275	0.437	3	4
3/8-24UNF	GH2	Y87453	3P	3.156	0.472	-	0.323	0.242	0.406	3	4
3/8-24UNF	GH2	Y87063	1.5P	3.156	0.472	-	0.323	0.242	0.406	3	4
3/8-24UNF	GH3	Y87463	3P	3.156	0.472	-	0.323	0.242	0.406	3	4
3/8-24UNF	GH5	Y87085	1.5P	3.156	0.472	-	0.323	0.242	0.406	3	4
7/16-14UNC	GH3	Y87464	3P	3.593	0.709	-	0.429	0.322	0.5	3	4
7/16-20UNF	GH3	Y87465	3P	3.375	0.472	-	0.367	0.275	0.437	3	4
7/16-20UNF	GH3	Y87065	1.5P	3.375	0.472	-	0.367	0.275	0.437	3	4
7/16-20UNF	GH4	Y87475	3P	3.375	0.472	-	0.367	0.275	0.437	3	4
1/2-13UNC	GH3	Y87466	3P	3.812	0.748	-	0.48	0.36	0.562	3	4
1/2-13UNC	GH3	Y87066	1.5P	3.812	0.748	-	0.48	0.36	0.562	3	4
1/2-13UNC	GH5	Y87088	1.5P	3.812	0.748	-	0.48	0.36	0.562	3	4
1/2-20UNF	GH3	Y87467	3P	3.593	0.512	-	0.429	0.322	0.5	3	4
1/2-20UNF	GH3	Y87067	1.5P	3.593	0.512	-	0.429	0.322	0.5	3	4

Spiral Fluted Taps
(for blind hole)

①

Spiral Fluted Taps
(for through hole)

②

Spiral Pointed Taps
(for through hole)

③

Hand Taps

④

Cemented
Carbide Taps

⑤

Roll Taps

⑥

Special Thread Taps
Simple Inspection Tools

⑦

Pipe Taps

⑧

Thread Mills
Premium Thread Mills

⑨

Dies

⑩

Center Drills
Centering Tools

⑪

Precision Machinery/
Medical Surgical Instruments

⑫

ANSI

⑦-20

7 Special Thread Taps / Simple Inspection Tools

Overall length	Thread length	Thread + Neck length	Shank length	Shank dia.	Size of square	Length of square
L	ℓ	ℓ_n	ℓ_s	Ds	K	ℓ_k

JIS

① Spiral Fluted Taps
(for blind hole)

② Spiral Fluted Taps
(for through hole)

③ Spiral Pointed Taps
(for through hole)

④ Hand Taps

⑤ Cemented
Carbide Taps

⑥ Roll Taps

⑦ Special Thread Taps
Simple Inspection Tools

⑧ Pipe Taps

⑨ Thread Mills
Premium Thread Mills

⑩ Dies

⑪ Center Drills
Centering Tools

⑫ Precision Machinery/
Medical Surgical Instruments

JIS

⑦-21

AL-PO STI

Spiral Pointed Taps for Aluminum Materials (for Helical Coil Wire Screw Thread Inserts)



Specification

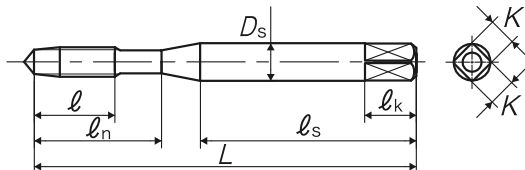


Tapping Speeds depending on Materials

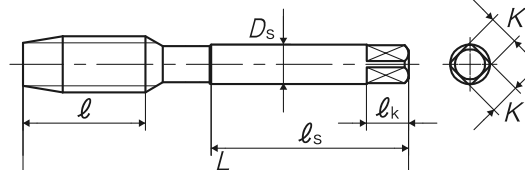
Brass 黄銅	Brass castings 黄銅鑄物	Bronze 青銅	Wrought aluminum アルミ圧延材	Aluminum alloy castings アルミ合金鑄物	Magnesium alloy die castings マグネシウム合金鑄物	Zinc alloy castings 亜鉛合金鑄物
5~15 (m/min)	5~15 (m/min)	5~15 (m/min)	5~15 (m/min)	5~15 (m/min)	5~15 (m/min)	5~15 (m/min)

- This is made of a comparatively soft material, such as aluminum, and taps an internal thread for accommodating a helical coil wire screw thread insert, in order to reinforce the internal thread and increase durability.
- Diameter of the internal screw threads into which the insert coil is inserted, is larger than that of the corresponding external screw threads by the thickness of the coil. Therefore, the internal screw thread diameter of the insert coil thread tap is also larger than its nominal diameter.
- The bored hole size needs to be also larger. Make sure to prepare an appropriate bored hole size before tapping.
- The shank diameter is also larger. Make sure to use an appropriate tap holder.

TYPE:1



TYPE:2



Segment : 1E

Size	Class	Code	Chamfer	Basic major dia (mm)	L (mm)	ℓ (mm)	ℓ_n (mm)	ℓ_s (mm)	Ds (mm)	K (mm)	ℓ_k (mm)	No. of flutes	TYPE	MSRP
For Metric Threads														
M3 × 0.5	I b	PW3.0G1LEB	5P	3.650	52	7.5	17	29	5	4	7	3	1	¥ 2,800 ※
M4 × 0.7	I b	PW4.0H1LEB	5P	4.909	60	13	22	33	5.5	4.5	7	3	1	¥ 2,660 ※
M5 × 0.8	I b	PW5.0K1LEB	5P	6.039	62	15	26	33	6	4.5	7	3	1	¥ 2,550 ※
M6 × 1	I b	PW6.0M1LEB	5P	7.299	70	19	-	36	6.2	5	8	3	2	¥ 2,650 ※
M8 × 1.25	I b	PW8.0N1LEB	5P	9.624	75	23	-	38	7	5.5	8	3	2	¥ 3,720 ※
M10 × 1.5	I b	PW010O1LEB	5P	11.948	82	26	-	42	8.5	6.5	9	3	2	¥ 4,990 ※
M12 × 1.75	I b	PW012P1LEB	5P	14.273	95	26	-	48	12.5	10	13	3	2	¥ 6,860 ※

Think threads with
YAMAWA

※ = Specified Distribution Items. Made to order products.

PO STI

Spiral Pointed Taps for Helical Coil Wire Screw Thread Inserts



Specification

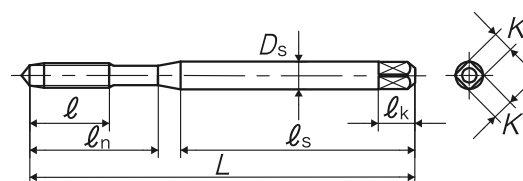


■ Spiral pointed tap to cut internal threads for helical coil to enter.

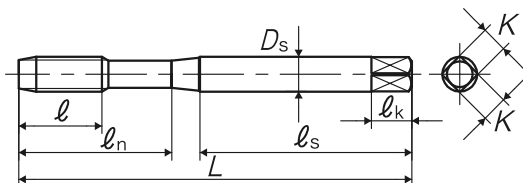
Tapping Speed depending on Materials

Brass 黄銅	Brass castings 黄銅鑄物	Bronze 青銅	Wrought aluminum アルミ圧延材	Aluminum alloy castings アルミ合金鑄物	Magnesium alloy die castings マグネシウム合金鑄物	Zinc alloy castings 亜鉛合金鑄物
5~15 (m/min)	5~15 (m/min)	5~15 (m/min)	5~15 (m/min)	5~15 (m/min)	5~15 (m/min)	5~15 (m/min)

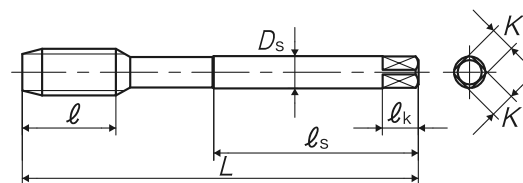
TYPE: 1



TYPE: 2



TYPE: 3



Segment : 1E

Size	Class	Code	Chamfer	L (inch)	l (inch)	ln (inch)	ls (inch)	Ds (inch)	K (inch)	lk (inch)	No. of flutes	TYPE
For Unified Threads												
No.2-56UNC	GH1	PUUN2E1NEB	5P	2.205	0.354	0.709	1.28	0.141	0.11	0.187	2	1
No.2-56UNC	GH2	PUUN2E2NEB	5P	2.205	0.354	0.709	1.28	0.141	0.11	0.187	2	1
No.4-40UNC	GH1	PUUN4H1NEB	5P	2.48	0.512	0.827	1.496	0.168	0.131	0.25	2	1
No.4-40UNC	GH2	PUUN4H2NEB	5P	2.48	0.512	0.827	1.496	0.168	0.131	0.25	2	1
No.6-32UNC	GH1	PUUN6J1NEB	5P	2.756	0.551	0.945	1.654	0.194	0.131	0.25	2	1
No.6-32UNC	GH2	PUUN6J2NEB	5P	2.756	0.551	0.945	1.654	0.194	0.131	0.25	2	1
No.8-32UNC	GH1	PUUN8J1NEB	5P	3.15	0.591	0.984	1.929	0.22	0.165	0.281	2	1
No.8-32UNC	GH2	PUUN8J2NEB	5P	3.15	0.591	0.984	1.929	0.22	0.165	0.281	2	1
No.10-24UNC	GH2	PUUNAM2NEB	5P	3.15	0.591	1.181	1.713	0.255	0.191	0.312	2	1
No.10-24UNC	GH3	PUUNAM3NEB	5P	3.15	0.591	1.181	1.713	0.255	0.191	0.312	2	1
No.10-32UNF	GH2	PUUNAJ2NEB	5P	3.15	0.591	1.181	1.713	0.255	0.191	0.312	2	1
No.10-32UNF	GH3	PUUNAJ3NEB	5P	3.15	0.591	1.181	1.713	0.255	0.191	0.312	2	1
1/4-20UNC	GH2	PUU04N2NEB	5P	3.543	0.748	1.378	1.831	0.318	0.238	0.375	2	2
1/4-20UNC	GH3	PUU04N3NEB	5P	3.543	0.748	1.378	1.831	0.318	0.238	0.375	2	2
1/4-28UNF	GH2	PUU04K2NEB	5P	3.543	0.748	1.378	1.831	0.318	0.238	0.375	2	2
1/4-28UNF	GH3	PUU04K3NEB	5P	3.543	0.748	1.378	1.831	0.318	0.238	0.375	2	2

7 Special Thread Taps / Simple Inspection Tools

Overall length	Thread length	Thread + Neck length	Shank length	Shank dia.	Size of square	Length of square
L	ℓ	ℓn	ℓs	Ds	K	ℓk

ANSI

PO STI Spiral Pointed Taps for Helical Coil Wire Screw Thread Inserts

Size	Class	Code	Chamfer	L (inch)	ℓ (inch)	ℓn (inch)	ℓs (inch)	Ds (inch)	K (inch)	ℓk (inch)	No. of flutes	TYPE
5/16-18UNC	GH2	PUU05O2NEB	5P	3.937	0.906	1.535	2.067	0.381	0.286	0.437	2	2
5/16-18UNC	GH3	PUU05O3NEB	5P	3.937	0.906	1.535	2.067	0.381	0.286	0.437	2	2
5/16-24UNF	GH2	PUU05M2NEB	5P	3.937	0.906	1.535	2.028	0.381	0.286	0.437	2	2
5/16-24UNF	GH3	PUU05M3NEB	5P	3.937	0.906	1.535	2.028	0.381	0.286	0.437	2	2
3/8-16UNC	GH3	PUU06P3NEB	5P	4.331	1.024	-	2.205	0.367	0.275	0.437	3	3
3/8-16UNC	GH4	PUU06P4NEB	5P	4.331	1.024	-	2.205	0.367	0.275	0.437	3	3
3/8-24UNF	GH2	PUU06M2NEB	5P	3.937	0.906	-	2.008	0.323	0.242	0.406	3	3
3/8-24UNF	GH3	PUU06M3NEB	5P	3.937	0.906	-	2.008	0.323	0.242	0.406	3	3
7/16-14UNC	GH3	PUU07Q3NEB	5P	4.331	1.024	-	2.205	0.429	0.322	0.5	3	3
7/16-14UNC	GH4	PUU07Q4NEB	5P	4.331	1.024	-	2.205	0.429	0.322	0.5	3	3
7/16-20UNF	GH3	PUU07N3NEB	5P	4.331	1.024	-	2.205	0.429	0.322	0.5	3	3
7/16-20UNF	GH4	PUU07N4NEB	5P	4.331	1.024	-	2.205	0.429	0.322	0.5	3	3
1/2-13UNC	GH3	PUU08R3NEB	5P	4.331	1.024	-	2.205	0.48	0.36	0.562	3	3
1/2-13UNC	GH4	PUU08R4NEB	5P	4.331	1.024	-	2.205	0.48	0.36	0.562	3	3
1/2-20UNF	GH3	PUU08N3NEB	5P	4.331	1.024	-	2.205	0.48	0.36	0.562	3	3
1/2-20UNF	GH4	PUU08N4NEB	5P	4.331	1.024	-	2.205	0.48	0.36	0.562	3	3

① Spiral Fluted Taps
(for blind hole)

② Spiral Fluted Taps
(for through hole)

③ Spiral Pointed Taps
(for through hole)

④ Hand Taps

⑤ Cemented
Carbide Taps

⑥ Roll Taps

⑦ Special Thread Taps
Simple Inspection Tools

⑧ Pipe Taps

⑨ Thread Mills
Premium Thread Mills

⑩ Dies

⑪ Center Drills
Centering Tools

⑫ Precision Machinery/
Medical Surgical Instruments

ANSI

Think threads with
YAMAWA

· This product is different from JIS products in shape and dimensions, please be careful when using.

ANSI

PO OX STI

Spiral Pointed Taps for Helical Coil Wire Screw Thread Inserts, Oxidized

Overall length	Thread length	Thread + Neck length	Shank length	Shank dia.	Size of square	Length of square
L	ℓ	ℓ_n	ℓ_s	Ds	K	ℓ_k



Specification

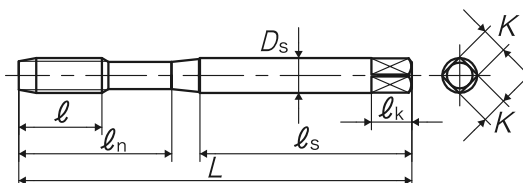


■ Spiral pointed tap to cut internal threads for helical coil to enter.

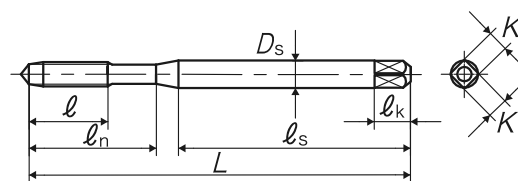
Tapping Speed depending on Materials

Low carbon steels 低炭素鋼	Medium carbon steels 中炭素鋼
5~10 (m/min)	5~10 (m/min)

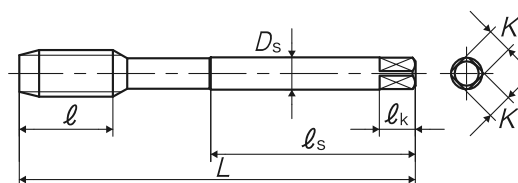
TYPE:2



TYPE:1



TYPE:3



Segment : 1E

Size	Class	Code	Chamfer	L (inch)	ℓ (inch)	ℓ_n (inch)	ℓ_s (inch)	Ds (inch)	K (inch)	ℓ_k (inch)	No. of flutes	TYPE
For Unified Threads												
No.2-56UNC	GH1	PUUN2E1NEX	5P	2.205	0.354	0.709	1.28	0.141	0.11	0.187	2	1
No.2-56UNC	GH2	PUUN2E2NEX	5P	2.205	0.354	0.709	1.28	0.141	0.11	0.187	2	1
No.4-40UNC	GH1	PUUN4H1NEX	5P	2.48	0.512	0.827	1.496	0.168	0.131	0.25	2	1
No.4-40UNC	GH2	PUUN4H2NEX	5P	2.48	0.512	0.827	1.496	0.168	0.131	0.25	2	1
No.6-32UNC	GH1	PUUN6J1NEX	5P	2.756	0.551	0.945	1.654	0.194	0.131	0.25	2	1
No.6-32UNC	GH2	PUUN6J2NEX	5P	2.756	0.551	0.945	1.654	0.194	0.131	0.25	2	1
No.8-32UNC	GH1	PUUN8J1NEX	5P	3.15	0.591	0.984	1.929	0.22	0.165	0.281	2	1
No.8-32UNC	GH2	PUUN8J2NEX	5P	3.15	0.591	0.984	1.929	0.22	0.165	0.281	2	1
No.10-24UNC	GH2	PUUNAM2NEX	5P	3.15	0.591	1.181	1.713	0.255	0.191	0.312	2	1
No.10-24UNC	GH3	PUUNAM3NEX	5P	3.15	0.591	1.181	1.713	0.255	0.191	0.312	2	1
No.10-32UNF	GH2	PUUNAJ2NEX	5P	3.15	0.591	1.181	1.713	0.255	0.191	0.312	2	1
No.10-32UNF	GH3	PUUNAJ3NEX	5P	3.15	0.591	1.181	1.713	0.255	0.191	0.312	2	1
1/4-20UNC	GH2	PUU04N2NEX	5P	3.543	0.748	1.378	1.831	0.318	0.238	0.375	2	2
1/4-20UNC	GH3	PUU04N3NEX	5P	3.543	0.748	1.378	1.831	0.318	0.238	0.375	2	2
1/4-28UNF	GH2	PUU04K2NEX	5P	3.543	0.748	1.378	1.831	0.318	0.238	0.375	2	2
1/4-28UNF	GH3	PUU04K3NEX	5P	3.543	0.748	1.378	1.831	0.318	0.238	0.375	2	2
5/16-18UNC	GH2	PUU05O2NEX	5P	3.937	0.906	1.535	2.067	0.381	0.286	0.437	2	2

7 Special Thread Taps / Simple Inspection Tools

Overall length	Thread length	Thread + Neck length	Shank length	Shank dia.	Size of square	Length of square
L	ℓ	ℓn	ℓs	Ds	K	ℓk

ANSI

PO OX STI Spiral Pointed Taps for Helical Coil Wire Screw Thread Inserts, Oxidized

Size	Class	Code	Chamfer	L (inch)	ℓ (inch)	ℓn (inch)	ℓs (inch)	Ds (inch)	K (inch)	ℓk (inch)	No. of flutes	TYPE
5/16-18UNC	GH3	PUU05O3NEX	5P	3.937	0.906	1.535	2.067	0.381	0.286	0.437	2	2
5/16-24UNF	GH2	PUU05M2NEX	5P	3.937	0.906	1.535	2.028	0.381	0.286	0.437	2	2
5/16-24UNF	GH3	PUU05M3NEX	5P	3.937	0.906	1.535	2.028	0.381	0.286	0.437	2	2
3/8-16UNC	GH3	PUU06P3NEX	5P	4.331	1.024	-	2.205	0.367	0.275	0.437	3	3
3/8-16UNC	GH4	PUU06P4NEX	5P	4.331	1.024	-	2.205	0.367	0.275	0.437	3	3
3/8-24UNF	GH2	PUU06M2NEX	5P	3.937	0.906	-	2.008	0.323	0.242	0.406	3	3
3/8-24UNF	GH3	PUU06M3NEX	5P	3.937	0.906	-	2.008	0.323	0.242	0.406	3	3
7/16-14UNC	GH3	PUU07Q3NEX	5P	4.331	1.024	-	2.205	0.429	0.322	0.5	3	3
7/16-14UNC	GH4	PUU07Q4NEX	5P	4.331	1.024	-	2.205	0.429	0.322	0.5	3	3
7/16-20UNF	GH3	PUU07N3NEX	5P	4.331	1.024	-	2.205	0.429	0.322	0.5	3	3
7/16-20UNF	GH4	PUU07N4NEX	5P	4.331	1.024	-	2.205	0.429	0.322	0.5	3	3
1/2-13UNC	GH3	PUU08R3NEX	5P	4.331	1.024	-	2.205	0.48	0.36	0.562	3	3
1/2-13UNC	GH4	PUU08R4NEX	5P	4.331	1.024	-	2.205	0.48	0.36	0.562	3	3
1/2-20UNF	GH3	PUU08N3NEX	5P	4.331	1.024	-	2.205	0.48	0.36	0.562	3	3
1/2-20UNF	GH4	PUU08N4NEX	5P	4.331	1.024	-	2.205	0.48	0.36	0.562	3	3

①
Spiral Fluted Taps
(for blind hole)

②
Spiral Fluted Taps
(for through hole)

③
Spiral Pointed Taps
(for through hole)

④
Hand Taps

⑤
Cemented
Carbide Taps

⑥
Roll Taps

⑦
Special Thread Taps
Simple Inspection Tools

⑧
Pipe Taps

⑨
Thread Mills
Premium Thread Mills

⑩
Dies

⑪
Center Drills
Centering Tools

⑫
Precision Machinery/
Medical Surgical Instruments

ANSI

⑦-25

Think threads with
YAMAWA

· This product is different from JIS products in shape and dimensions, please be careful when using.

Overall length	Thread length	Thread + Neck length	Shank dia.	Size of square	Length of square
L	ℓ	ℓ_n	Ds	K	ℓ_k

ANSI

ZELX NI PO STI



Spiral Pointed Taps for Helical Coil Wire Screw Thread Inserts and for Nickel Base Alloys

Specification

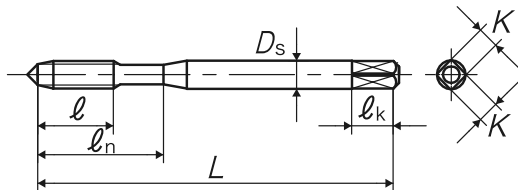


Tapping Speed depending on Materials

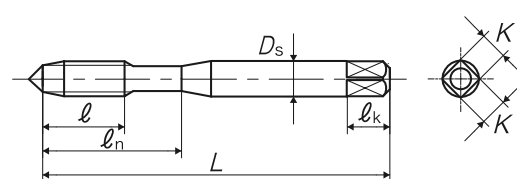
Low carbon steels 低炭素鋼 5~10 (m/min)	Medium carbon steels 中炭素鋼 5~10 (m/min)	Stainless steels ステンレス鋼 5~10 (m/min)	Nickel base alloys ニッケル基合金 5~10 (m/min)
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■ ZELX NI PO STI is the spiral pointed tap for nickel base alloys which, with nickel as main composition, have much higher corrosion resistance and much higher heat resistance than steels, and produces threads oversize enough to accommodate helical coil wire thread inserts.

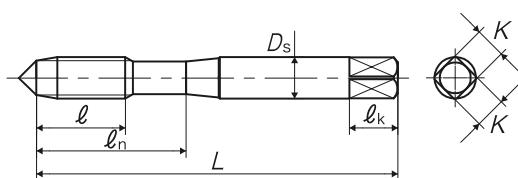
TYPE:1



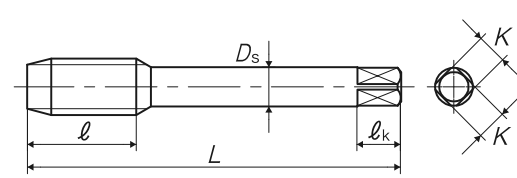
TYPE:2



TYPE:3



TYPE:4



Segment : 1E

Size	Class	Code	Chamfer	L (inch)	ℓ (inch)	ℓ_n (inch)	Ds (inch)	K (inch)	ℓ_k (inch)	No. of flutes	TYPE
For Unified Threads											
No.2-56UNC	GH2	Y87200	4.5P	1.875	0.335	0.562	0.141	0.11	0.187	2	1
No.4-40UNC	GH1	Y87203	4.5P	2	0.413	0.687	0.141	0.11	0.187	3	1
No.4-40UNC	GH2	Y87204	4.5P	2	0.413	0.687	0.141	0.11	0.187	3	1
No.6-32UNC	GH2	Y87208	4.5P	2.375	0.531	0.875	0.194	0.152	0.25	3	1
No.6-32UNC	GH3	Y87224	4.5P	2.375	0.531	0.875	0.194	0.152	0.25	3	1
No.6-40UNF	GH2	Y87209	4.5P	2.125	0.453	0.75	0.168	0.131	0.25	3	1
No.8-32UNC	GH2	Y87210	4.5P	2.375	0.571	0.937	0.22	0.165	0.281	3	1
No.8-32UNC	GH3	Y87226	4.5P	2.375	0.571	0.937	0.22	0.165	0.281	3	1
No.10-24UNC	GH2	Y87212	4.5P	2.5	0.591	1	0.255	0.191	0.312	3	2
No.10-24UNC	GH3	Y87228	4.5P	2.5	0.591	1	0.255	0.191	0.312	3	2
No.10-32UNF	GH2	Y87213	4.5P	2.5	0.591	1	0.255	0.191	0.312	3	2
No.10-32UNF	GH3	Y87229	4.5P	2.5	0.591	1	0.255	0.191	0.312	3	2
1/4-20UNC	GH2	Y87248	4.5P	2.718	0.669	1.125	0.318	0.238	0.375	3	3
1/4-20UNC	GH3	Y87258	4.5P	2.718	0.669	1.125	0.318	0.238	0.375	3	3
1/4-28UNF	GH2	Y87249	4.5P	2.718	0.669	1.125	0.318	0.238	0.375	3	3
1/4-28UNF	GH3	Y87259	4.5P	2.718	0.669	1.125	0.318	0.238	0.375	3	3
5/16-18UNC	GH3	Y87260	4.5P	2.937	0.748	1.25	0.381	0.286	0.437	3	3

7 Special Thread Taps / Simple Inspection Tools

Overall length	Thread length	Thread + Neck length	Shank dia.	Size of square	Length of square
L	ℓ	ℓn	Ds	K	ℓk

ANSI

ZELX NI PO STI Spiral Pointed Taps for Helical Coil Wire Screw Thread Inserts and for Nickel Base Alloys

Size	Class	Code	Chamfer	L (inch)	ℓ (inch)	ℓn (inch)	Ds (inch)	K (inch)	ℓk (inch)	No. of flutes	TYPE
5/16-18UNC	GH4	Y87272	4.5P	2.937	0.748	1.25	0.381	0.286	0.437	3	3
5/16-24UNF	GH2	Y87251	4.5P	2.937	0.748	1.25	0.381	0.286	0.437	3	3
5/16-24UNF	GH3	Y87261	4.5P	2.937	0.748	1.25	0.381	0.286	0.437	3	3
3/8-16UNC	GH3	Y87262	4.5P	3.375	0.984	-	0.367	0.275	0.437	3	4
3/8-16UNC	GH4	Y87270	4.5P	3.375	0.984	-	0.367	0.275	0.437	3	4
3/8-24UNF	GH2	Y87253	4.5P	3.156	0.866	-	0.323	0.242	0.406	3	4
3/8-24UNF	GH3	Y87263	4.5P	3.156	0.866	-	0.323	0.242	0.406	3	4
7/16-14UNC	GH3	Y87264	4.5P	3.593	0.984	-	0.429	0.322	0.5	3	4
7/16-20UNF	GH3	Y87265	4.5P	3.375	0.984	-	0.367	0.275	0.437	3	4
7/16-20UNF	GH4	Y87275	4.5P	3.375	0.984	-	0.367	0.275	0.437	3	4
1/2-13UNC	GH3	Y87266	4.5P	3.812	1.083	-	0.48	0.36	0.562	3	4
1/2-20UNF	GH3	Y87267	4.5P	3.593	0.984	-	0.429	0.322	0.5	3	4

① Spiral Fluted Taps
(for blind hole)

② Spiral Fluted Taps
(for through hole)

③ Spiral Pointed Taps
(for through hole)

④ Hand Taps

⑤ Cemented
Carbide Taps

⑥ Roll Taps

⑦ Special Thread Taps
Simple Inspection Tools

⑧ Pipe Taps

⑨ Thread Mills
Premium Thread Mills

⑩ Dies

⑪ Center Drills
Centering Tools

⑫ Precision Machinery/
Medical Surgical Instruments

ANSI

⑦-27

Think threads with
YAMAWA

· This product is different from JIS products in shape and dimensions, please be careful when using.

Overall length	Thread length	Thread + Neck length	Shank length	Shank dia.	Size of square	Length of square
L	ℓ	ℓ_n	ℓ_s	Ds	K	ℓ_k

N-RS STI

Roll Taps for Nonferrous Materials (for Helical Coil Wire Screw Thread Inserts)



Specification

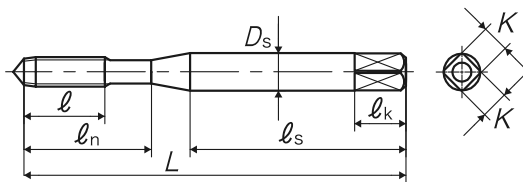


Tapping Speeds depending on Materials

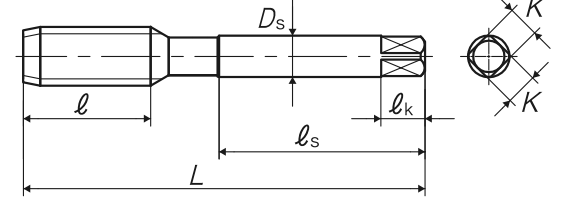
Wrought aluminum アルミ圧延材	Aluminum alloy castings アルミ合金鋳物	Zinc alloy castings 亜鉛合金鋳物
5~15 (m/min)	5~15 (m/min)	5~15 (m/min)

- The roll tap is used to cut a comparatively soft material, such as aluminum, and taps an internal thread for accommodating a helical coil wire screw thread insert, in order to reinforce the internal thread and increase durability.
- Diameter of the internal screw threads into which the insert coil is inserted, is larger than that of the corresponding external screw threads by the thickness of the coil. Therefore, the internal screw thread diameter of the insert coil thread tap is also larger than its nominal diameter.
- The bored hole size needs to be also larger. Make sure to prepare an appropriate bored hole size before tapping.
- The shank diameter is also larger. Make sure to use an appropriate tap holder.

TYPE:1



TYPE:2



Segment: 1J

Size	Class	Code	Chamfer	Basic major dia (mm)	L (mm)	ℓ (mm)	ℓ_n (mm)	ℓ_s (mm)	Ds (mm)	K (mm)	ℓ_k (mm)	Lobe	TYPE	MSRP
For Metric Threads														
M3 × 0.5	G3	RW3.0G3LENP	4P	3.650	52	7.5	17	29	5	4	7	4	1	¥ 3,420 ※
M3 × 0.5	G3	RW3.0G3LENB	2P	3.650	52	7.5	17	29	5	4	7	4	1	¥ 3,420 ※
M4 × 0.7	G4	RW4.0I4LENP	4P	4.909	60	13	22	33	5.5	4.5	7	4	1	¥ 3,290 ※
M4 × 0.7	G4	RW4.0I4LENB	2P	4.909	60	13	22	33	5.5	4.5	7	4	1	¥ 3,290 ※
M5 × 0.8	G4	RW5.0K4LENP	4P	6.039	62	15	26	33	6	4.5	7	4	1	¥ 3,130 ※
M5 × 0.8	G4	RW5.0K4LENB	2P	6.039	62	15	26	33	6	4.5	7	4	1	¥ 3,130 ※
M6 × 1	G4	RW6.0M4LENP	4P	7.299	70	19	-	36	6.2	5	8	4	2	¥ 3,280 ※
M6 × 1	G4	RW6.0M4LENB	2P	7.299	70	19	-	36	6.2	5	8	4	2	¥ 3,280 ※
M8 × 1.25	G4	RW8.0N4LENP	4P	9.624	75	23	-	38	7	5.5	8	6	2	¥ 4,590 ※
M8 × 1.25	G4	RW8.0N4LENB	2P	9.624	75	23	-	38	7	5.5	8	6	2	¥ 4,590 ※
M10 × 1.5	G5	RW010O5LENP	4P	11.948	82	26	-	42	8.5	6.5	9	6	2	¥ 6,140 ※
M10 × 1.5	G5	RW010O5LENB	2P	11.948	82	26	-	42	8.5	6.5	9	6	2	¥ 6,140 ※
M10 × 1.25	G5	RW010N5LENP	4P	11.624	82	26	-	42	8.5	6.5	9	6	2	¥ 6,140 ※
M10 × 1.25	G5	RW010N5LENB	2P	11.624	82	26	-	42	8.5	6.5	9	6	2	¥ 6,140 ※
M12 × 1.75	G6	RW012P6LENP	4P	14.273	95	26	-	48	12.5	10	13	6	2	¥ 8,460 ※
M12 × 1.75	G6	RW012P6LENB	2P	14.273	95	26	-	48	12.5	10	13	6	2	¥ 8,460 ※
M12 × 1.5	G6	RW012O6LENP	4P	13.948	88	26	-	45	10.5	8	11	6	2	¥ 8,460 ※
M12 × 1.5	G6	RW012O6LENB	2P	13.948	88	26	-	45	10.5	8	11	6	2	¥ 8,460 ※
M12 × 1.25	G6	RW012N6LENP	4P	13.624	88	26	-	45	10.5	8	11	6	2	¥ 8,460 ※
M12 × 1.25	G6	RW012N6LENB	2P	13.624	88	26	-	45	10.5	8	11	6	2	¥ 8,460 ※

No. of oil grooves: STI metric thread: 1
For M6 or less, the chamfer-2P convex center is removed.

7 Special Thread Taps / Simple Inspection Tools

Overall length	Thread length	Thread + Neck length	Shank dia.	Size of square	Length of square
L	ℓ	ℓ_n	Ds	K	ℓ_k

JIS

① Spiral Fluted Taps
(for blind hole)

② Spiral Fluted Taps
(for through hole)

③ Spiral Pointed Taps
(for through hole)

④ Hand Taps

⑤ Cemented Carbide Taps

⑥ Roll Taps

⑦ Special Thread Taps
Simple Inspection Tools

⑧ Pipe Taps

⑨ Thread Mills
Premium Thread Mills

⑩ Dies

⑪ Center Drills
Centering Tools

⑫ Precision Machinery/
Medical Surgical Instruments

N-CT LA STI



Carbide Hand Taps for Light Alloys (for Helical Coil Wire Screw Thread Inserts)

Specification

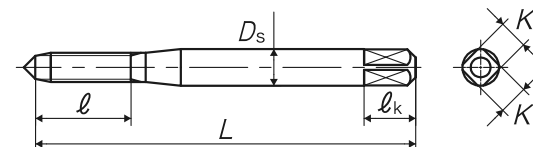


Tapping Speeds depending on Materials

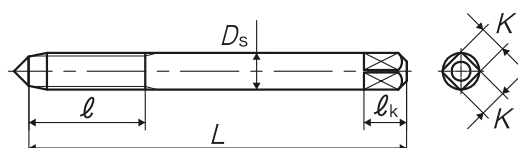
Aluminum alloy castings アルミ合金鋳物	Zinc alloy castings 亜鉛合金鋳物
10 ~ 20 (m/min)	10 ~ 20 (m/min)

- The carbide tap is used to cut a comparatively soft material, such as aluminum, and create an internal thread for accommodating a helical coil wire screw thread insert, in order to reinforce the internal thread and increase durability.
- Diameter of the internal screw threads into which the insert coil is inserted, is larger than that of the corresponding external screw threads by the thickness of the coil. Therefore, the internal screw thread diameter of the insert coil thread tap is also larger than its nominal diameter.
- The bored hole size needs to be also larger. Make sure to prepare an appropriate bored hole size before tapping.
- The shank diameter is also larger. Make sure to use an appropriate tap holder.

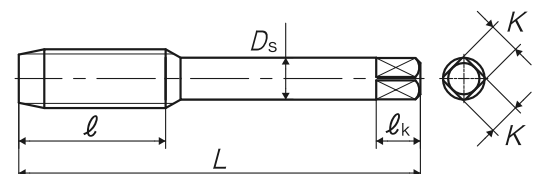
TYPE: 1



TYPE: 2



TYPE: 3



Segment : 1L

Size	Class	Code	Chamfer	Basic major dia (mm)	L (mm)	ℓ (mm)	ℓ_n (mm)	Ds (mm)	K (mm)	ℓ_k (mm)	No. of flutes	TYPE	MSRP
For Metric Threads													
M3 × 0.5	Ib	TW3.0G1LWB5	5P	3.650	52	13	-	5	4	7	3	1	¥ 20,700 ※
M3 × 0.5	Ib	TW3.0G1LWBA	1.5P	3.650	52	13	-	5	4	7	3	1	¥ 20,700 ※
M4 × 0.7	Ib	TW4.0I1LWB5	5P	4.909	60	16	-	5.5	4.5	7	3	1	¥ 21,800 ※
M4 × 0.7	Ib	TW4.0I1LWBA	1.5P	4.909	60	16	-	5.5	4.5	7	3	1	¥ 21,800 ※
M5 × 0.8	Ib	TW5.0K1LWB5	5P	6.039	62	19	-	6	4.5	7	3	2	¥ 22,700 ※
M5 × 0.8	Ib	TW5.0K1LWBA	1.5P	6.039	62	19	-	6	4.5	7	3	2	¥ 22,700 ※
M6 × 1	Ib	TW6.0M1LWB5	5P	7.299	65	19	-	6.2	5	8	4	3	¥ 24,800 ※
M6 × 1	Ib	TW6.0M1LWBA	1.5P	7.299	65	19	-	6.2	5	8	4	3	¥ 24,800 ※
M8 × 1.25	Ib	TW8.0N1LWB5	5P	9.624	75	24	-	7	5.5	8	4	3	¥ 31,900 ※
M8 × 1.25	Ib	TW8.0N1LWBA	1.5P	9.624	75	24	-	7	5.5	8	4	3	¥ 31,900 ※
M10 × 1.5	Ib	TW010O1LWB5	5P	11.948	82	30	-	8.5	6.5	9	4	3	¥ 44,300 ※
M10 × 1.5	Ib	TW010O1LWBA	1.5P	11.948	82	30	-	8.5	6.5	9	4	3	¥ 44,300 ※

JIS

NT Nut Taps

Specification



Tapping Speeds depending on Materials

Low carbon steels
低炭素鋼
5~10
(m/min)

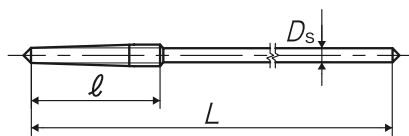
Medium carbon steels
中炭素鋼
5~10
(m/min)

■ A tap mainly used for tapping nuts with a tapping machine.

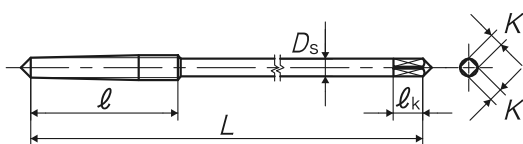
Overall length	Thread length	Shank dia.	Size of square	Length of square
L	ℓ	Ds	K	ℓ_k



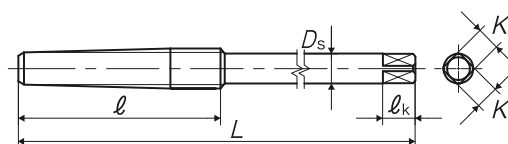
TYPE: 1



TYPE: 2



TYPE: 3



Segment : 11

Size	Class	Code	Chamfer	L (mm)	ℓ (mm)	Ds (mm)	K (mm)	ℓ_k (mm)	No. of flutes	TYPE	MSRP
For Metric Threads											
M2 × 0.4	II b	NH22.0E	25P	75	14	1.4	-	-	3	1	¥ 9,520 ※
M2.3 × 0.4	II b	NH22.3E	25P	80	14	1.7	-	-	3	1	¥ 9,520 ※
M2.5 × 0.45	II b	NH22.5F	24P	85	15	2	-	-	3	1	¥ 8,700 ※
M2.6 × 0.45	II b	NH22.6F	24P	85	15	2	-	-	3	1	¥ 8,700 ※
M3 × 0.5	II b	NH23.0G	30P	90	20	2.1	-	-	3	1	¥ 7,020
3M0.6	II b	NH23.0H	25P	90	20	2.1	-	-	3	1	¥ 7,020 ※
M3.5 × 0.6	II b	NH23.5H	25P	95	20	2.6	-	-	3	1	¥ 7,380 ※
M4 × 0.7	II b	NH24.0I	27P	100	25	2.8	-	-	3	1	¥ 6,260
4M0.75	II b	NH24.0J	25P	100	25	2.8	-	-	3	1	¥ 6,260 ※
M4.5 × 0.75	II b	NH24.5J	25P	105	25	3.3	2.5	5	3	2	¥ 10,600 ※
M5 × 0.8	II b	NH25.0K	28P	110	30	3.6	2.8	6	3	2	¥ 5,860
5M0.9	II b	NH25.0L	24P	110	30	3.6	2.8	6	3	2	¥ 5,860 ※
M5.5 × 0.9	II b	NH25.5L	24P	115	30	4.1	3.2	6	3	2	¥ 11,000 ※
M6 × 1	II b	NH26.0M	26P	120	35	4.5	3.5	6	3	2	¥ 5,910
M6 × 0.75	II	NH26.0J	24P	115	30	4.5	3.5	6	3	2	¥ 8,360 ※

※ = Specified Distribution Items. Made to order products.

Think threads with
YAMAWA

Spiral Fluted Taps
(for blind hole) ①

Spiral Fluted Taps
(for through hole) ②

Spiral Pointed Taps
(for through hole) ③

Hand Taps ④

Cemented
Carbide Taps ⑤

Roll Taps ⑥

Special Thread Taps
Simple Inspection Tools ⑦

Pipe Taps ⑧

Thread Mills
Premium Thread Mills ⑨

Dies ⑩

Center Drills
Centering Tools ⑪

Precision Machinery/
Medical Surgical Instruments ⑫

7 Special Thread Taps / Simple Inspection Tools

Overall length	Thread length	Shank dia.	Size of square	Length of square
L	ℓ	Ds	K	ℓk

JIS

NT Nut Taps

Size	Class	Code	Chamfer	L (mm)	ℓ (mm)	Ds (mm)	K (mm)	ℓk (mm)	No. of flutes	TYPE	MSRP
M7 × 1	II b	NH27.0M	26P	130	35	5.5	4.5	7	3	3	¥ 6,220 ※
M8 × 1.25	II b	NH28.0N	24P	140	40	6.2	5	8	3	3	¥ 6,380
M8 × 1	II	NH28.0M	25P	130	40	6.2	5	8	3	3	¥ 8,910 ※
M8 × 0.75	II	NH28.0J	24P	120	30	6.2	5	8	3	3	¥ 10,100 ※
M9 × 1.25	II b	NH29.0N	27P	150	45	7.2	5.5	8	3	3	¥ 8,210 ※
M9 × 1	II	NH29.0M	25P	140	40	7.2	5.5	8	3	3	¥ 9,380 ※
M10 × 1.5	II b	NH2010O	25P	160	50	7.8	6	9	3	3	¥ 8,150
M10 × 1.25	II	NH2010N	24P	150	45	7.8	6	9	3	3	¥ 8,150 ※
M10 × 1	II	NH2010M	25P	140	40	7.8	6	9	3	3	¥ 11,700 ※
M12 × 1.75	II b	NH2012P	26P	170	60	9	7	10	3	3	¥ 12,000
M12 × 1.5	II	NH2012O	25P	160	55	9	7	10	3	3	¥ 12,000 ※
M12 × 1.25	II	NH2012N	24P	160	45	9	7	10	3	3	¥ 12,000 ※
M12 × 1	II	NH2012M	25P	150	40	9	7	10	3	3	¥ 16,600 ※
M14 × 2	II b	NH2014Q	25P	190	65	11	9	12	3	3	¥ 16,400 ※
M14 × 1.5	II	NH2014O	25P	170	55	11	9	12	3	3	¥ 16,400 ※
M14 × 1.25	II	NH2014N	24P	170	50	11	9	12	3	3	¥ 20,600 ※
M14 × 1	II	NH2014M	25P	160	40	11	9	12	3	3	¥ 20,600 ※
M16 × 2	II b	NH2016Q	26P	200	70	13	10	13	3	3	¥ 20,600
M16 × 1.5	II	NH2016O	25P	180	55	13	10	13	3	3	¥ 20,600 ※
M16 × 1	II	NH2016M	25P	170	40	13	10	13	3	3	¥ 29,000 ※
M18 × 2.5	II b	NH2018R	24P	220	80	14	11	14	3	3	¥ 29,000 ※
M18 × 2	II	NH2018Q	25P	210	75	14	11	14	3	3	¥ 29,000 ※
M18 × 1.5	II	NH2018O	25P	190	55	14	11	14	3	3	¥ 29,000 ※
M18 × 1	II	NH2018M	25P	180	45	14	11	14	3	3	¥ 36,800 ※
M20 × 2.5	II b	NH2020R	26P	230	85	16	12	15	3	3	¥ 39,200 ※
M20 × 2	II	NH2020Q	25P	220	75	16	12	15	3	3	¥ 39,200 ※
M20 × 1.5	II	NH2020O	25P	200	60	16	12	15	3	3	¥ 39,200 ※
M20 × 1	II	NH2020M	25P	190	45	16	12	15	3	3	¥ 52,000 ※
M22 × 2.5	II b	NH2022R	27P	250	90	18	14	17	3	3	¥ 49,000 ※
M22 × 1.5	II	NH2022O	25P	210	60	18	14	17	3	3	¥ 49,000 ※
M24 × 3	II b	NH2024S	25P	260	100	19	15	18	3	3	¥ 60,400 ※
M24 × 2	II	NH2024Q	25P	240	75	19	15	18	3	3	¥ 60,400 ※
M24 × 1.5	II	NH2024O	25P	220	60	19	15	18	3	3	¥ 60,400 ※
M25 × 2	II	NH2025Q	25P	240	75	20	15	18	3	3	¥ 76,000 ※
M25 × 1.5	II	NH2025O	25P	220	60	20	15	18	3	3	¥ 76,000 ※
M26 × 1.5	II	NH2026O	25P	230	60	20	15	18	3	3	¥ 76,000 ※
M27 × 3	II b	NH2027S	27P	280	110	22	17	20	4	3	¥ 81,300 ※
M27 × 2	II	NH2027Q	25P	250	75	22	17	20	4	3	¥ 81,300 ※
M27 × 1.5	II	NH2027O	25P	230	60	22	17	20	4	3	¥ 81,300 ※
M28 × 1.5	II	NH2028O	25P	240	60	22	17	20	4	3	¥ 96,200 ※
M30 × 3.5	II b	NH2030T	26P	300	120	24	19	22	4	3	¥ 107,000 ※
M30 × 2	II	NH2030Q	25P	260	75	24	19	22	4	3	¥ 107,000 ※
M30 × 1.5	II	NH2030O	25P	240	60	24	19	22	4	3	¥ 107,000 ※
M33 × 3.5	II b	NH2033T	26P	310	120	25	19	22	4	3	¥ 113,000 ※
M36 × 4	II b	NH2036U	26P	330	140	28	21	24	4	3	¥ 132,000 ※
M39 × 4	II b	NH2039U	26P	340	140	30	23	26	4	3	¥ 152,000 ※
M42 × 4.5	II b	NH2042V	25P	360	150	32	26	30	4	3	¥ 188,000 ※
For Whitworth Threads											
1/8W40	II b	NH2W02H	28P	95	25	2.2	-	-	3	1	¥ 7,680 ※
3/16W24	II b	NH2W03M	25P	110	35	3.2	2.5	5	3	2	¥ 6,320 ※

⑫ Precision Machinery/
Medical Surgical Instruments

⑩ Dies

⑨ Thread Mills
Premium Thread Mills

⑧ Pipe Taps

⑦ Special Thread Taps
Simple Inspection Tools

⑥ Roll Taps

⑤ Cemented
Carbide Taps

④ Hand Taps

③ Spiral Pointed Taps
(for through hole)

② Spiral Fluted Taps
(for through hole)

① Spiral Fluted Taps
(for blind hole)

Overall length	Thread length	Shank dia.	Size of square	Length of square
L	ℓ	Ds	K	ℓk

7

JIS

NT Nut Taps

Size	Class	Code	Chamfer	L (mm)	ℓ (mm)	Ds (mm)	K (mm)	ℓk (mm)	No. of flutes	TYPE	MSRP
1/4W20	II b	NH2W04N	24P	125	42	4.5	3.5	6	3	2	¥ 5,980 ※
5/16W18	II b	NH2W05O	27P	140	50	5.9	4.5	7	3	3	¥ 6,460 ※
3/8W16	II b	NH2W06P	26P	155	55	7.3	5.5	8	3	3	¥ 8,330 ※
7/16W14	II b	NH2W07Q	25P	165	60	8.5	6.5	9	3	3	¥ 11,500 ※
1/2W12	II b	NH2W08S	23P	180	65	9.5	7	10	3	3	¥ 14,600 ※
9/16W12	II b	NH2W09S	25P	190	70	11	9	12	3	3	¥ 20,800 ※
5/8W11	II b	NH2W10U	24P	200	75	12.5	10	13	3	3	¥ 21,600 ※
3/4W10	II b	NH2W12V	25P	230	85	15	12	15	3	3	¥ 32,900 ※
7/8W9	II b	NH2W14W	25P	250	95	18	14	17	3	3	¥ 49,400 ※
1 W8	II b	NH2W16X	25P	270	105	20.5	17	20	3	3	¥ 73,000 ※
1 1/8W7	II b	NH2W18Y	25P	290	120	23	17	20	4	3	¥ 97,100 ※
1 1/4W7	II b	NH2W20Y	26P	300	125	26	21	24	4	3	¥ 152,000 ※
1 3/8W6	II b	NH2W22Z	24P	320	135	28	21	24	4	3	¥ 180,000 ※
1 1/2W6	II b	NH2W24Z	25P	330	140	31	23	26	4	3	¥ 251,000 ※

Spiral Fluted Taps
(for blind hole)

①

Spiral Fluted Taps
(for through hole)

②

Spiral Pointed Taps
(for through hole)

③

Hand Taps

④

Cemented
Carbide Taps

⑤

Roll Taps

⑥

Special Thread Taps
Simple Inspection Tools

⑦

Pipe Taps

⑧

Thread Mills
Premium Thread Mills

⑨

Dies

⑩

Center Drills
Centering Tools

⑪

Precision Machinery/
Medical Surgical Instruments

⑫

JIS

⑦-32

7 Special Thread Taps / Simple Inspection Tools

Overall length	Thread length	Thread + Neck length	Shank length	Shank dia.	Size of square	Length of square
L	ℓ	ℓ_n	ℓ_s	Ds	K	ℓ_k

JIS

① Spiral Fluted Taps
(for blind hole)

② Spiral Fluted Taps
(for through hole)

③ Spiral Pointed Taps
(for through hole)

④ Hand Taps

⑤ Cemented Carbide Taps

⑥ Roll Taps

⑦ Special Thread Taps
Simple Inspection Tools

⑧ Pipe Taps

⑨ Thread Mills
Premium Thread Mills

⑩ Dies

⑪ Center Drills
Centering Tools

⑫ Precision Machinery/
Medical Surgical Instruments

JIS

⑦-33

HT TRI

Hand Taps for Tripod Threads



Specification

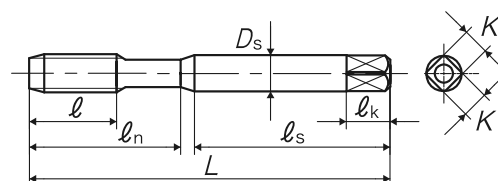


■ Hand Tap for camera tripod threads. Its thread size is oversized.

Tapping Speeds depending on Materials

Brass 黄銅 ~10 (m/min)	Brass castings 黄銅鑄物 ~10 (m/min)	Aluminum alloy castings アルミ合金鑄物 ~10 (m/min)	Magnesium alloy die castings マグネシウム合金鑄物 ~10 (m/min)	Zinc alloy castings 亜鉛合金鑄物 ~10 (m/min)
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TYPE: 1



Segment : 1A

Size	Code	Chamfer	L (mm)	ℓ (mm)	ℓ_n (mm)	ℓ_s (mm)	Ds (mm)	K (mm)	ℓ_k (mm)	No. of flutes	TYPE	MSRP
For Tripod Threads												
1/4-20	TYU04N0KEB3	3P	62	15	26	33	6	4.5	7	3	1	¥ 1,780 ※
1/4-20	TYU04N0KEBA	1.5P	62	15	26	33	6	4.5	7	3	1	¥ 1,780 ※

Specifications of threads for mounting a camera on a tripod as shown in the picture on the right.

The tripod thread is larger by about 0.14 mm than the unified thread in terms of the pitch diameter tolerance of internal threads, while their thread shapes are the same.



Comparison between tripod thread and unified thread unit: mm

Size	Pitch (P)		Minor Diameter (D)	Pitch Diameter (D ₂)	Minor Diameter (D ₁)
Tripod thread 1/4-20	1.270	Basic size	6.350	5.525	4.975
		Maximum allowable size	~	5.820	5.267
		Minimum allowable size	6.460	5.635	4.975
Unified thread 2B 1/4-20UNC	1.270	Basic size	6.350	5.524	4.976
		Maximum allowable size	~	5.648	5.257
		Minimum allowable size	~	5.525	4.979

For Tripod Threads unit: mm

Size	Class	Major Diameter	Pitch Diameter			Minor Diameter
		Basic Size	Basic Size	Upper Tolerance (μ m) +	Lower Tolerance (μ m) +	Basic Size
1/4 - 20	-	6.350	5.525	230	210	4.975

Bored hole size unit: mm

Size	Minor diameter of internal thread (D ₁)		Bored hole size (reference)
	Max.	Min.	
1/4 - 20	5.267	4.975	5.19

Think threads with
YAMAWA

※ = Specified Distribution Items. Made to order products.

Overall length	Thread length	Thread + Neck length	Shank length	Shank dia.	Size of square	Length of square
L	ℓ	ℓ_n	ℓ_s	Ds	K	ℓ_k

SP TRI

Spiral Fluted Taps for Tripod Threads



Specification

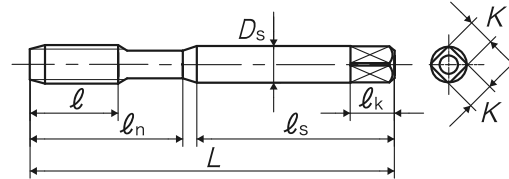


■ Spiral Fluted Tap for camera tripod threads. Its thread size is oversized.

Tapping Speeds depending on Materials

Brass 黄銅 ~10 (m/min)	Brass castings 黄銅鑄物 ~10 (m/min)	Aluminum alloy castings アルミ合金鑄物 ~10 (m/min)	Magnesium alloy die castings マグネシウム合金鑄物 ~10 (m/min)	Zinc alloy castings 亜鉛合金鑄物 ~10 (m/min)
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TYPE: 1



Segment: 1C

Size	Code	Chamfer	L (mm)	ℓ (mm)	ℓ_n (mm)	ℓ_s (mm)	Ds (mm)	K (mm)	ℓ_k (mm)	No. of flutes	TYPE	MSRP
For Tripod Threads												
1/4-20	SYU04N0KEB	2.5P	62	15	26	33	6	4.5	7	3	1	¥ 2,020*

Specifications of threads for mounting a camera on a tripod as shown in the picture on the right.

The tripod thread is larger by about 0.14 mm than the unified thread in terms of the accuracy of its pitch diameter of internal threads, while their thread shapes are the same.

■ Comparison between tripod thread and unified thread unit: mm

Size	Pitch (P)		Minor Diameter (D)	Pitch Diameter (D ₂)	Minor Diameter (D ₁)
Tripod thread 1/4-20	1.270	Basic size	6.350	5.525	4.975
		Maximum allowable size	~	5.820	5.267
		Minimum allowable size	6.460	5.635	4.975
Unified thread 2B 1/4-20UNC	1.270	Basic size	6.350	5.524	4.976
		Maximum allowable size	~	5.648	5.257
		Minimum allowable size	~	5.525	4.979

■ For Tripod Threads unit: mm

Size	Class	Major Diameter	Pitch Diameter		Minor Diameter
		Basic Size	Basic Size	Upper Tolerance (μm) +	Lower Tolerance (μm) +
1/4 - 20	-	6.350	5.525	230	210

■ Bored hole size unit: mm

Size	Minor diameter of internal thread (D ₁)		Bored hole size (reference)
	Max.	Min.	
1/4 - 20	5.267	4.975	5.19



Spiral Fluted Taps
(for blind hole) ①

Spiral Fluted Taps
(for through hole) ②

Spiral Pointed Taps
(for through hole) ③

Hand Taps ④

Cemented Carbide Taps ⑤

Roll Taps ⑥

Special Thread Taps
Simple Inspection Tools ⑦

Pipe Taps ⑧

Thread Mills
Premium Thread Mills ⑨

Dies ⑩

Center Drills
Centering Tools ⑪

Precision Machinery/
Medical Surgical Instruments ⑫

7 Special Thread Taps / Simple Inspection Tools

Overall length	Thread length	Position on basic dia.	Shank dia.	Size of square	Length of square
L	ℓ	ℓg	Ds	K	ℓk

JIS

① Spiral Fluted Taps
(for blind hole)

② Spiral Fluted Taps
(for through hole)

③ Spiral Pointed Taps
(for through hole)

④ Hand Taps

⑤ Cemented Carbide Taps

⑥ Roll Taps

⑦ Special Thread Taps
Simple Inspection Tools

⑧ Pipe Taps

⑨ Thread Mills
Premium Thread Mills

⑩ Dies

⑪ Center Drills
Centering Tools

⑫ Precision Machinery/
Medical Surgical Instruments

JIS

⑦-35

RLS-HT

Hand Taps for Camera Release Threads



Specification

HSS



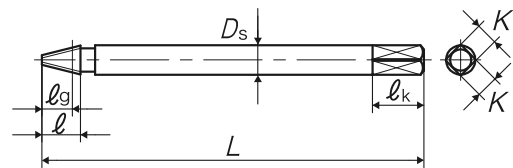
■ Tap for the screws for installing camera release.

Tapping Speeds depending on Materials

Brass
黄銅
~1
(m/min)

Brass castings
黄銅鑄物
~1
(m/min)

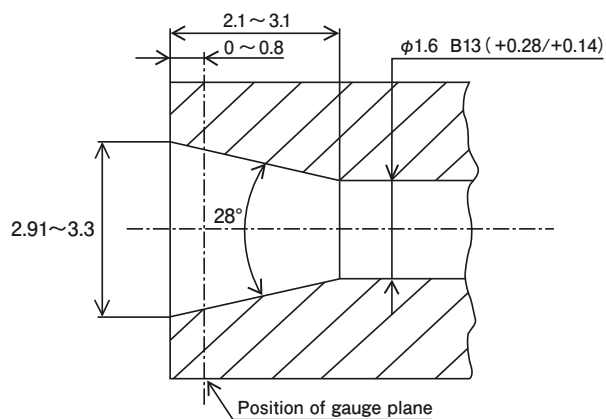
TYPE: 1



Segment : 1A

Size	Code	Chamfer	L (mm)	ℓ (mm)	ℓg (mm)	Ds (mm)	K (mm)	ℓk (mm)	No. of flutes	TYPE	MSRP
For Camera Release Threads											
3.4 × 0.5 × 28°	TY3.4G0LEB	-	52	5.25	4.15	4	3	7	3	1	¥ 10,300*

■ Bored hole size



Think threads with
YAMAWA

* = Specified Distribution Items. Made to order products.

HT TV

Hand Taps for Automobile Tire Valve Threads

Specification



Tapping Speeds depending on Materials

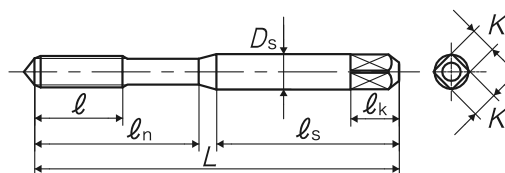
Brass
黄銅
~10
(m/min)

Overall length	Thread length	Thread + Neck length	Shank length	Shank dia.	Size of square	Length of square
L	ℓ	ℓ _n	ℓ _s	D _s	K	ℓ _k

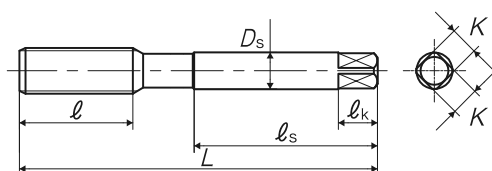


■ Tap for automobile tire valve threads.

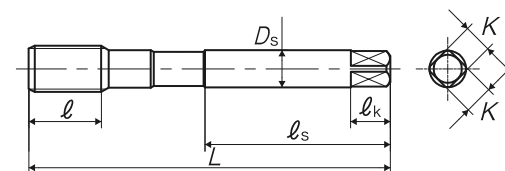
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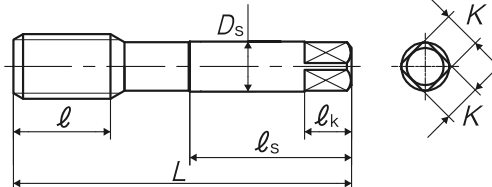
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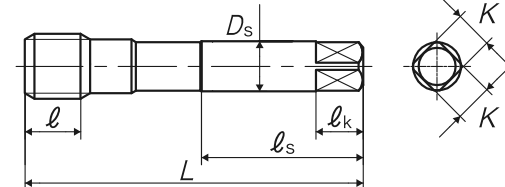
TYPE: 3



TYPE: 4



TYPE: 5



Segment : 1A

Size	Code	Chamfer	Basic major dia (mm)	L (mm)	ℓ (mm)	ℓ _n (mm)	ℓ _s (mm)	D _s (mm)	K (mm)	ℓ _k (mm)	No. of flutes	TYPE	MSRP
For Tire Valve Threads													
5V1	TY05V1RLEBA	1.5P	5.334	62	15	26	33	6	4.5	7	3	1	¥ 2,540 □
8V1	TY08V1SLEBA	1.5P	7.798	70	19	-	36	6.2	5	8	3	2	¥ 3,360 □
8V2	TY08V2QLEBA	1.5P	7.938	70	19	-	36	6.2	5	8	3	2	¥ 3,360 □
9V1	TY09V1QLEBA	1.5P	9.525	75	23	-	38	7	5.5	8	4	2	¥ 3,840 □
10V1	TY10V1QLEBA	1.5P	9.800	75	23	-	38	7	5.5	8	4	2	¥ 3,840 □
10V2	TY10V2RLEBA	1.5P	10.414	82	26	-	42	8.5	6.5	9	4	2	¥ 5,670 □
11V1	TY11V1RLEBA	1.5P	11.113	82	26	-	42	8.5	6.5	9	4	2	¥ 5,670 □
12V1	TY12V1RLEBA	1.5P	12.319	88	26	-	45	10.5	8	11	4	2	¥ 6,810 □
13V1	TY13V1RLEBA	1.5P	12.700	88	26	-	45	10.5	8	11	4	2	¥ 6,810 □

□=In stock at manufacturer.

Think threads with
YAMAWA

7 Special Thread Taps / Simple Inspection Tools

Overall length	Thread length	Thread + Neck length	Shank length	Shank dia.	Size of square	Length of square
L	ℓ	ℓn	ℓs	Ds	K	ℓk

JIS

HT TV Hand Taps for Automobile Tire Valve Threads

Size	Code	Chamfer	Basic major dia (mm)	L (mm)	ℓ (mm)	ℓn (mm)	ℓs (mm)	Ds (mm)	K (mm)	ℓk (mm)	No. of flutes	TYPE	MSRP
13V2	TY13V2QLEBA	1.5P	12.700	88	26	-	45	10.5	8	11	4	2	¥ 6,810 □
15V1	TY15V1QLEBA	1.5P	15.137	95	26	-	48	12.5	10	13	4	2	¥ 9,840 □
16V1	TY16V1RLEBA	1.5P	15.875	95	26	-	48	12.5	10	13	4	2	¥ 9,840 □
17V1	TY17V1QLEBA	1.5P	17.137	100	18	-	51	14	11	14	4	3	¥ 11,800 □
17V2	TY17V2RLEBA	1.5P	17.463	100	18	-	51	14	11	14	4	3	¥ 11,800 □
17V3	TY17V3RLEBA	1.5P	17.463	100	33	-	51	14	11	14	4	2	¥ 11,800 □
19V1	TY19V1RLEBA	1.5P	19.050	105	33	-	50	15	12	15	4	4	¥ 15,900 □
20V1	TY20V1QLEBA	1.5P	20.642	115	19	-	55	17	13	16	4	5	¥ 24,800 □

■ For Tire Valve Threads unit: mm

Size	Pitch Diameter	Minor Diameter
	Basic Size	Basic Size
5 V 1	4.869	4.597
8 V 1	7.284	7.036
8 V 2	7.250	6.782
9 V 1	9.010	8.661
10 V 1	9.380	8.750
10 V 2	9.815	9.350
11 V 1	10.287	9.729
12 V 1	11.669	11.176
13 V 1	11.875	11.328
13 V 2	12.185	11.837
15 V 1	14.380	13.750
16 V 1	15.263	14.869
17 V 1	16.380	15.750
17 V 2	16.775	16.307
17 V 3	16.432	15.748
19 V 1	18.019	17.323
20 V 1	19.885	19.250

■ Bored hole size unit: mm

Size	Minor Diameter of Internal Thread (D _i)		Bored Hole Size (Reference)
	Max.	Min.	
5 V 1	4.801	4.597	4.75
8 V 1	7.239	7.036	7.19
8 V 2	7.035	6.782	6.97
9 V 1	8.865	8.661	8.81
10 V 1	8.900	8.750	8.86
10 V 2	9.550	9.350	9.50
11 V 1	10.033	9.729	9.96
12 V 1	11.379	11.176	11.33
13 V 1	11.608	11.328	11.54
13 V 2	12.039	11.837	11.99
15 V 1	13.950	13.750	13.90
16 V 1	15.088	14.859	15.03
17 V 1	15.950	15.750	15.90
17 V 2	16.560	16.307	16.50
17 V 3	16.103	15.748	16.01
19 V 1	17.678	17.323	17.59
20 V 1	19.450	19.250	19.40

① Spiral Fluted Taps
(for blind hole)

② Spiral Fluted Taps
(for through hole)

③ Spiral Pointed Taps
(for through hole)

④ Hand Taps

⑤ Cemented Carbide Taps

⑥ Roll Taps

⑦ Special Thread Taps
Simple Inspection Tools

⑧ Pipe Taps

⑨ Thread Mills
Premium Thread Mills

⑩ Dies

⑪ Center Drills
Centering Tools

⑫ Precision Machinery/
Medical Surgical Instruments

JIS

HT CTV

Hand Taps for Bicycle Tire Valve Threads



Specification

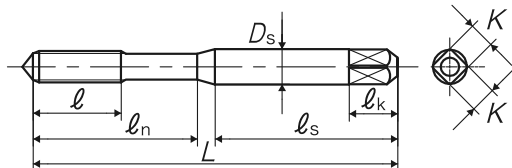


■ Tap for bicycle tire valve threads.

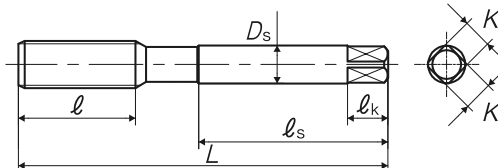
Tapping Speeds depending on Materials



TYPE:1



TYPE:2



Segment : 1A

Size	Code	Chamfer	Basic major dia (mm)	L (mm)	l (mm)	ln (mm)	ls (mm)	Ds (mm)	K (mm)	lk (mm)	No. of flutes	TYPE	MSRP
For Bicycle Tire Valve Threads													
CTV5-36	TYCV5IRLEBA	1.5P	5.330	62	15	26	33	6	4.5	7	3	1	¥ 2,540 □
CTV5-24	TYCV5MSLEBA	1.5P	5.100	62	15	26	33	6	4.5	7	3	1	¥ 2,540 □
CTV8-32	TYCV8JRLEBA	1.5P	7.900	70	19	-	36	6.2	5	8	3	2	¥ 3,360 □
CTV8-30	TYCV83RLEBA	1.5P	8.100	70	19	-	36	6.2	5	8	3	2	¥ 3,840 □
5V2	TY05V2QLEBA	1.5P	5.370	62	15	26	33	6	4.5	7	3	1	¥ 2,540 □
6V1	TY06V1QLEBA	1.5P	6.160	62	15	26	33	6	4.5	7	3	1	¥ 2,540 □

■ For Bicycle Tire Valve Threads unit: mm

Size	Pitch Diameter	Minor Diameter
	Basic Size	Basic Size
CTV 5 - 36	4.872	4.566
CTV 5 - 24	4.413	3.954
CTV 8 - 32	7.384	7.041
CTV 8 - 30	7.550	7.183
5 V 2	4.760	4.400
6 V 1	5.725	5.440

■ Bored hole size unit: mm

Size	Minor diameter of internal thread (D _i)		Bored hole size (reference)
	Max.	Min.	
CTV 5 - 36	4.732	4.630	4.71
CTV 5 - 24	4.214	3.954	4.15
CTV 8 - 32	7.192	7.040	7.15
CTV 8 - 30	7.344	7.183	7.30
5 V 2	4.600	4.400	4.55
6 V 1	5.540	5.440	5.52

Overall length	Thread length	Thread + Neck length	Shank length	Shank dia.	Size of square	Length of square
L	l	ln	ls	Ds	K	lk

7 Special Thread Taps / Simple Inspection Tools

Overall length	Thread length	Thread + Neck length	Shank length	Shank dia.	Size of square	Length of square
L	ℓ	ℓ_n	ℓ_s	Ds	K	ℓ_k

JIS

① Spiral Fluted Taps
(for blind hole)

② Spiral Fluted Taps
(for through hole)

③ Spiral Pointed Taps
(for through hole)

④ Hand Taps

⑤ Cemented Carbide Taps

⑥ Roll Taps

⑦ Special Thread Taps
Simple Inspection Tools

⑧ Pipe Taps

⑨ Thread Mills
Premium Thread Mills

⑩ Dies

⑪ Center Drills
Centering Tools

⑫ Precision Machinery/
Medical Surgical Instruments

JIS

⑦-39

S

HT CTC

Hand Taps for Steel Conduit Threads



Specification

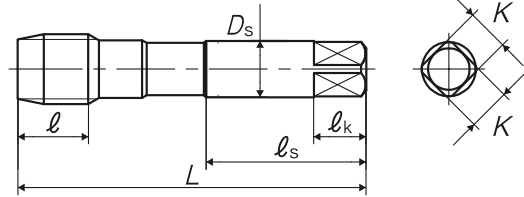


■ Tap for steel conduit threads. Thread angle is 80 degree and the thread symbol is CTC.

Tapping Speeds depending on Materials

Low carbon steels 低碳素鋼	Medium carbon steels 中炭素鋼	High carbon steels 高炭素鋼
~10 (m/min)	~10 (m/min)	~10 (m/min)

TYPE: 1



Segment : 1A

Size	Code	Chamfer	Basic major dia (mm)	L (mm)	ℓ (mm)	ℓ_n (mm)	ℓ_s (mm)	Ds (mm)	K (mm)	ℓ_k (mm)	No. of flutes	TYPE	MSRP
For Steel Conduit Threads													
CTC19-16	TYCC190HEB5	5P	19.100	105	23	-	50	15	12	15	4	1	¥ 17,400 □
CTC25-16	TYCC250HEB5	5P	25.400	125	24	-	58	19	15	18	4	1	¥ 38,100 □
CTC31-16	TYCC310HEB5	5P	31.800	145	26	-	67	24	19	22	4	1	¥ 55,000 □
CTC39-16	TYCC390HEB5	5P	38.100	165	27	-	76	30	23	26	4	1	¥ 73,400 □

■ For Steel Conduit Threads unit: mm

Size	Pitch Diameter		Minor Diameter	
	Basic Size		Basic Size	
CTC 19 - 16	18.343		17.708	
CTC 25 - 16	24.643		24.008	
CTC 31 - 16	31.043		30.408	
CTC 39 - 16	37.343		36.708	

■ Bored hole size unit: mm

Size	Minor Diameter of Internal Thread (D _i)		Bored Hole Size (Reference)
	Max.	Min.	
CTC 19 - 16	18.208	17.808	18.11
CTC 25 - 16	24.508	24.108	24.41
CTC 31 - 16	30.908	30.508	30.81
CTC 39 - 16	37.208	36.808	37.11

Think threads with
YAMAWA

□=In stock at manufacturer.

Overall length	Thread length	Thread + Neck length	Shank length	Shank dia.	Size of square	Length of square
L	ℓ	ℓ_n	ℓ_s	Ds	K	ℓ_k

HT CTG

Hand Taps for Thick Steel Conduit Threads



Specification

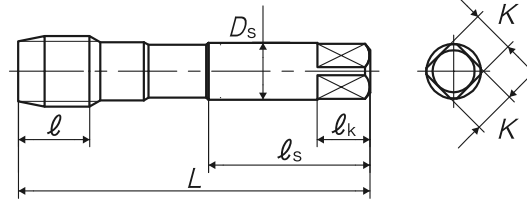


■ Tap for thick steel conduit threads. Thread angle is 55 degree and the thread symbol is CTG.

Tapping Speeds depending on Materials

Low carbon steels 低炭素鋼	Medium carbon steels 中炭素鋼	High carbon steels 高炭素鋼
~10 (m/min)	~10 (m/min)	~10 (m/min)

TYPE: 1



Segment : 1A

Size	Code	Chamfer	Basic major dia (mm)	L (mm)	ℓ (mm)	ℓ_n (mm)	ℓ_s (mm)	Ds (mm)	K (mm)	ℓ_k (mm)	No. of flutes	TYPE	MSRP
For Thick Steel Conduit Threads													
CTG16-14	TYCG160HEB5	5P	20.955	115	25	-	55	17	13	16	4	1	¥ 24,800 □
CTG22-14	TYCG220HEB5	5P	26.441	130	26	-	60	20	15	18	4	1	¥ 35,000 □
CTG28-11	TYCG280HEB5	5P	33.249	155	31	-	71	28	21	24	4	1	¥ 58,600 □
CTG36-11	TYCG360HEB5	5P	41.910	180	33	-	83	35	26	30	4	1	¥ 94,400 □
CTG42-11	TYCG420HEB5	5P	47.803	185	34	-	85	38	29	32	4	1	¥105,000 □

For Thick Steel Conduit Threads unit: mm

Size	Pitch Diameter	Minor Diameter	
		Basic Size	Basic Size
CTG 16 - 14	19.793	18.922	
CTG 22 - 14	25.279	24.408	
CTG 28 - 11	31.770	30.661	
CTG 36 - 11	40.431	39.322	
CTG 42 - 11	46.324	45.215	

Bored hole size unit: mm

Size	Minor Diameter of Internal Thread (D _i)		Bored Hole Size (Reference)
	Max.	Min.	
CTG 16 - 14	19.522	19.022	19.4
CTG 22 - 14	25.008	24.508	24.9
CTG 28 - 11	31.361	30.761	31.2
CTG 36 - 11	40.022	39.422	39.9
CTG 42 - 11	45.915	45.315	45.8

Spiral Fluted Taps
(for blind hole) ①

Spiral Fluted Taps
(for through hole) ②

Spiral Pointed Taps
(for through hole) ③

Hand Taps ④

Cemented Carbide Taps ⑤

Roll Taps ⑥

Special Thread Taps
Simple Inspection Tools ⑦

Pipe Taps ⑧

Thread Mills
Premium Thread Mills ⑨

Dies ⑩

Center Drills
Centering Tools ⑪

Precision Machinery/
Medical Surgical Instruments ⑫

7 Special Thread Taps / Simple Inspection Tools

Overall length	Thread length	Thread + Neck length	Shank length	Shank dia.	Size of square	Length of square
L	ℓ	ℓ_n	ℓ_s	Ds	K	ℓ_k

DIN

① Spiral Fluted Taps
(for blind hole)

② Spiral Fluted Taps
(for through hole)

③ Spiral Pointed Taps
(for through hole)

④ Hand Taps

⑤ Cemented Carbide Taps

⑥ Roll Taps

⑦ Special Thread Taps
Simple Inspection Tools

⑧ Pipe Taps

⑨ Thread Mills
Premium Thread Mills

⑩ Dies

⑪ Center Drills
Centering Tools

⑫ Precision Machinery/
Medical Surgical Instruments

DIN

HT Pg

Hand Taps for Steel Conduit Threads



Specification

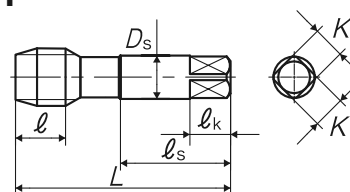


■ Taps for steel conduit threads. The thread angle is 80 degrees and the thread symbol is Pg.

Tapping Speeds depending on Materials

Low carbon steels 低碳素鋼	Medium carbon steels 中炭素鋼	High carbon steels 高炭素鋼
5~10 (m/min)	5~10 (m/min)	5~10 (m/min)

TYPE : 1



Segment : 1H

Size	Class	Code	Chamfer	L (mm)	ℓ (mm)	ℓ_n (mm)	ℓ_s (mm)	Ds (mm)	K (mm)	ℓ_k (mm)	No. of flutes	TYPE
For Pg Threads												
Pg 7-20	-	TYPG070NEBU	3.5P	70	21	-	36	9	7	10	4	1
Pg 9-18	-	TYPG090NEBU	3.5P	70	21	-	36	12	9	12	4	1
Pg 11-18	-	TYPG110NEBU	3.5P	80	21	-	41	14	11	14	4	1
Pg 13.5-18	-	TYPG130NEBU	3.5P	80	21	-	41	16	12	15	4	1
Pg 16-18	-	TYPG160NEBU	3.5P	80	21	-	41	18	14.5	17	4	1
Pg 21-16	-	TYPG210NEBU	3.5P	90	21	-	46	22	18	21	4	1
Pg 29-16	-	TYPG290NEBU	3.5P	100	24	-	51	28	22	25	4	1
Pg 36-16	-	TYPG360NEBU	3.5P	140	39	-	71	36	29	32	4	1

■ For Thick Steel Conduit Threads unit: mm

Size	Pitch Diameter	Minor Diameter
	Basic Size	Basic Size
Pg 7 - 20	11.89	11.28
Pg 9 - 18	14.53	13.86
Pg 11 - 18	17.93	17.26
Pg 13.5 - 18	19.73	19.06
Pg 16 - 18	21.83	21.16
Pg 21 - 16	27.54	26.78
Pg 29 - 16	36.24	35.48
Pg 36 - 16	46.24	45.48

■ Bored hole size

unit: mm

Size	Minor Diameter of Internal Thread (D _i)		Bored Hole Size (Reference)
	Max.	Min.	
Pg 7 - 20	11.43	11.28	11.39
Pg 9 - 18	14.01	13.86	13.97
Pg 11 - 18	17.41	17.26	17.37
Pg 13.5 - 18	19.21	19.06	19.17
Pg 16 - 18	21.31	21.16	21.27
Pg 21 - 16	27.03	26.78	26.97
Pg 29 - 16	35.73	35.48	35.67
Pg 36 - 16	45.73	45.48	45.67

DIN

⑦-41

Think threads with
YAMAWA

· This product is different from JIS products in shape and dimensions, please be careful when using.

HT BC

Hand Taps for Bicycle Threads

Specification

HSS



Tapping Speeds depending on Materials

Low carbon steels
低炭素鋼
~10
(m/min)

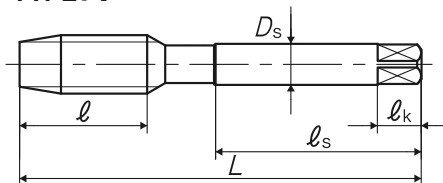
Medium carbon steels
中炭素鋼
~10
(m/min)

Overall length	Thread length	Thread + Neck length	Shank length	Shank dia.	Size of square	Length of square
L	ℓ	ℓn	ℓs	Ds	K	ℓk

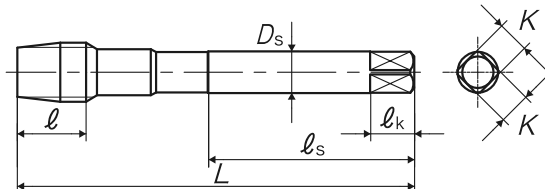


■ Tap for bicycle threads (general use).

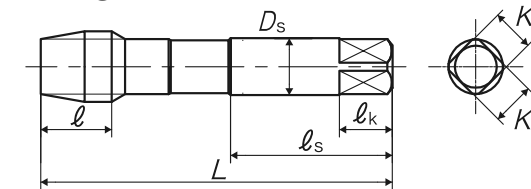
TYPE: 1



TYPE: 2



TYPE: 3



Segment : 1S

Size	Code	Chamfer	L (mm)	ℓ (mm)	ℓn (mm)	ℓs (mm)	Ds (mm)	K (mm)	ℓk (mm)	No. of flutes	TYPE	MSRP
For Bicycle Threads												
BC 5/16-26	TYBC01RHEB5	5P	70	19	-	36	6.2	5	8	3	1	¥ 3,360 □
BC 5/16-26	TYBC01RHEBA	1.5P	70	19	-	36	6.2	5	8	3	1	¥ 3,360 □
BC 3/8-26	TYBC02RHEB5	5P	75	23	-	38	7	5.5	8	4	1	¥ 3,840 □
BC 3/8-26	TYBC02RHEBA	1.5P	75	23	-	38	7	5.5	8	4	1	¥ 3,840 □
BC 7/16-26	TYBC03RHEB5	5P	82	26	-	42	8.5	6.5	9	4	1	¥ 5,670 □
BC 7/16-26	TYBC03RHEBA	1.5P	82	26	-	42	8.5	6.5	9	4	1	¥ 5,670 □
BC 1/2-20	TYBC04RHEB5	5P	88	26	-	45	10.5	8	11	4	1	¥ 6,810 □
BC 1/2-20	TYBC04RHEBA	1.5P	88	26	-	45	10.5	8	11	4	1	¥ 6,810 □
BC 9/16-20	TYBC05RHEB5	5P	95	26	-	48	12.5	10	13	4	1	¥ 9,840 □
BC 9/16-20	TYBC05RHEBA	1.5P	95	26	-	48	12.5	10	13	4	1	¥ 9,840 □
BC 5/8-20	TYBC06RHEB5	5P	95	26	-	48	12.5	10	13	4	1	¥ 9,840 □
BC 5/8-20	TYBC06RHEBA	1.5P	95	26	-	48	12.5	10	13	4	1	¥ 9,840 □
BC 11/16-24	TYBC07RHEB5	5P	100	18	-	51	14	11	14	4	2	¥ 11,800 □
BC 11/16-24	TYBC07RHEBA	1.5P	100	18	-	51	14	11	14	4	2	¥ 11,800 □
BC 3/4-30	TYBC08RHEB5	5P	105	18	-	50	15	12	15	4	3	¥ 15,900 □
BC 3/4-30	TYBC08RHEBA	1.5P	105	18	-	50	15	12	15	4	3	¥ 15,900 □
BC 31/32-30	TYBC09RHEB5	5P	125	20	-	58	19	15	18	4	3	¥ 35,000 □

□=In stock at manufacturer.

Think threads with
YAMAWA

7 Special Thread Taps / Simple Inspection Tools

Overall length	Thread length	Thread + Neck length	Shank length	Shank dia.	Size of square	Length of square
L	ℓ	ℓn	ℓs	Ds	K	ℓk

JIS

HT BC Hand Taps for Bicycle Threads

Size	Code	Chamfer	L (mm)	ℓ (mm)	ℓn (mm)	ℓs (mm)	Ds (mm)	K (mm)	ℓk (mm)	No. of flutes	TYPE	MSRP
BC 31/32-30	TYBC09RHEBA	1.5P	125	20	-	58	19	15	18	4	3	¥ 35,000 □
BC 1-24	TYBC10RHEB5	5P	125	20	-	58	19	15	18	4	3	¥ 35,000 □
BC 1-24	TYBC10RHEBA	1.5P	125	20	-	58	19	15	18	4	3	¥ 35,000 □
BC 1.29-24	TYBC11RHEB5	5P	145	21	-	67	25	19	22	4	3	¥ 50,400 □
BC 1.29-24	TYBC11RHEBA	1.5P	145	21	-	67	25	19	22	4	3	¥ 50,400 □
BC 1.37-24	TYBC12RHEB5	5P	155	26	-	71	28	21	24	4	3	¥ 58,600 □
BC 1.37-24	TYBC12RHEBA	1.5P	155	26	-	71	28	21	24	4	3	¥ 58,600 □
BC 1 7/16-24	TYBC13RHEB5	5P	165	26	-	76	30	23	26	4	3	¥ 67,200 □
BC 1 7/16-24	TYBC13RHEBA	1.5P	165	26	-	76	30	23	26	4	3	¥ 67,200 □
BC 1.45-24	TYBC14RHEB5	5P	165	26	-	76	30	23	26	4	3	¥ 67,200 □
BC 1.45-24	TYBC14RHEBA	1.5P	165	26	-	76	30	23	26	4	3	¥ 67,200 □
BC 1 9/16-24	TYBC15RHEB5	5P	175	27	-	81	32	26	30	4	3	¥ 81,800 □
BC 1 9/16-24	TYBC15RHEBA	1.5P	175	27	-	81	32	26	30	4	3	¥ 81,800 □

For Bicycle Threads

unit: mm

Size	Major Diameter	Pitch Diameter	Minor Diameter
	Basic Size	Basic Size	Basic Size
BC 5/16 - 26	7.94	7.42	6.90
BC 3/8 - 26	9.53	9.01	8.49
BC 7/16 - 26	11.11	10.59	10.07
BC 1/2 - 20	12.70	12.02	11.34
BC 9/16 - 20	14.29	13.61	12.93
BC 5/8 - 20	15.88	15.20	14.52
BC 11/16 - 24	17.46	16.90	16.34
BC 3/4 - 30	19.05	18.60	18.15
BC 31/32 - 30	24.61	24.16	23.71
BC 1 - 24	25.40	24.84	24.28
BC 1.29 - 24	32.77	32.21	31.65
BC 1.37 - 24	34.80	34.24	33.68
BC 1 7/16 - 24	36.51	35.95	35.39
BC 1.45 - 24	36.83	36.27	35.71
BC 1 9/16 - 24	39.69	39.13	38.57

Bored hole size

unit: mm

Size	Minor Diameter of Internal Thread (D _i)		Bored Hole Size (Reference)
	Max.	Min.	
BC 5/16 - 26	7.16	7.06	7.14
BC 3/8 - 26	8.75	8.65	8.73
BC 7/16 - 26	10.33	10.23	10.31
BC 1/2 - 20	11.66	11.55	11.63
BC 9/16 - 20	13.25	13.14	13.22
BC 5/8 - 20	14.84	14.73	14.81
BC 11/16 - 24	16.59	16.48	16.56
BC 3/4 - 30	18.40	18.29	18.37
BC 31/32 - 30	23.96	23.85	23.93
BC 1 - 24	24.58	24.46	24.55
BC 1.29 - 24	31.96	31.83	31.93
BC 1.37 - 24	33.99	33.86	33.96
BC 1 7/16 - 24	35.70	35.57	35.67
BC 1.45 - 24	36.02	35.89	35.99
BC 1 9/16 - 24	38.88	38.75	38.85

① Spiral Fluted Taps
(for blind hole)

② Spiral Fluted Taps
(for through hole)

③ Spiral Pointed Taps
(for through hole)

④ Hand Taps

⑤ Cemented Carbide Taps

⑥ Roll Taps

⑦ Special Thread Taps
Simple Inspection Tools

⑧ Pipe Taps

⑨ Thread Mills
Premium Thread Mills

⑩ Dies

⑪ Center Drills
Centering Tools

⑫ Precision Machinery/
Medical Surgical Instruments

JIS

Overall length	Thread length	Shank length	Shank dia.	Size of square	Length of square
L	ℓ	ℓ_s	Ds	K	ℓ_k

SL BC

Spiral Fluted Taps for Tapping Through Holes for Bicycle Threads



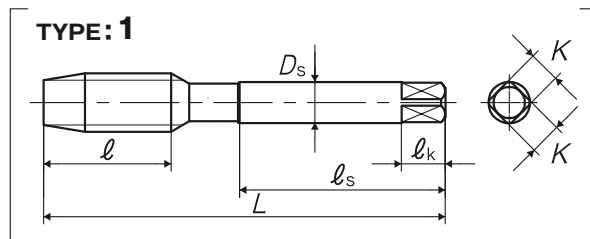
Specification



■ These are taps designed for machining cranks (through holes) of bicycles.

Tapping Speeds depending on Materials

Low carbon steels 低炭素鋼	Medium carbon steels 中炭素鋼
~10 (m/min)	~10 (m/min)



Segment : 1S

Size	Code	Chamfer	L (mm)	ℓ (mm)	ℓ_s (mm)	Ds (mm)	K (mm)	ℓ_k (mm)	No. of flutes	TYPE	MSRP
For Bicycle Threads											
BC 9/16-20	LYBC050HEV7	7P	95	26	48	12.5	10	13	4	1	¥ 10,900 □

■ For Bicycle Threads

unit: mm

Size	Major Diameter	Pitch Diameter	Minor Diameter
	Basic Size	Basic Size	Basic Size
BC 9/16 - 20	14.29	13.61	12.93

■ Bored hole size

unit: mm

Size	Minor Diameter of Internal Thread (D _i)		Bored Hole Size (Reference)
	Max.	Min.	
BC 9/16 - 20	13.25	13.14	13.22

Spiral Fluted Taps
(for blind hole) ①

Spiral Fluted Taps
(for through hole) ②

Spiral Pointed Taps
(for through hole) ③

Hand Taps ④

Cemented
Carbide Taps ⑤

Roll Taps ⑥

Special Thread Taps
Simple Inspection Tools ⑦

Pipe Taps ⑧

Thread Mills
Premium Thread Mills ⑨

Dies ⑩

Center Drills
Centering Tools ⑪

Precision Machinery/
Medical Surgical Instruments ⑫

JIS

7 Special Thread Taps / Simple Inspection Tools

Overall length	Thread length	Shank length	Shank dia.	Size of square	Length of square
L	ℓ	ℓ_s	Ds	K	ℓ_k

JIS

① Spiral Fluted Taps
(for blind hole)

② Spiral Fluted Taps
(for through hole)

③ Spiral Pointed Taps
(for through hole)

④ Hand Taps

⑤ Cemented Carbide Taps

⑥ Roll Taps

⑦ Special Thread Taps
Simple Inspection Tools

⑧ Pipe Taps

⑨ Thread Mills
Premium Thread Mills

⑩ Dies

⑪ Center Drills
Centering Tools

⑫ Precision Machinery/
Medical Surgical Instruments

JIS

⑦-45

SL LH BC

Spiral Fluted Taps for Tapping Through Holes for Bicycle Threads for Left-Hand Threads



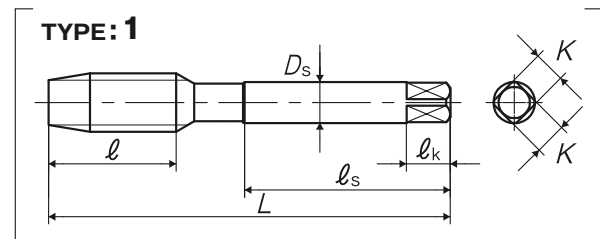
Specification



■ These are taps for left-hand threads designed for machining cranks (through holes) of bicycles.

Tapping Speeds depending on Materials

Low carbon steels 低炭素鋼	Medium carbon steels 中炭素鋼
~10 (m/min)	~10 (m/min)



Segment : 1S

Size	Code	Chamfer	L (mm)	ℓ (mm)	ℓ_s (mm)	Ds (mm)	K (mm)	ℓ_k (mm)	No. of flutes	TYPE	MSRP
Bicycle Threads For Left-Hand threads											
BC 9/16-20	ZYBC050HEV7	7P	95	26	48	12.5	10	13	4	1	¥ 14,200 □

■ For Bicycle Threads

unit: mm

Size	Major Diameter	Pitch Diameter	Minor Diameter
	Basic Size	Basic Size	Basic Size
BC 9/16 - 20	14.29	13.61	12.93

■ Bored hole size

unit: mm

Size	Minor Diameter of Internal Thread (D _i)		Bored Hole Size (Reference)
	Max.	Min.	
BC 9/16 - 20	13.25	13.14	13.22

Think threads with
YAMAWA

□=In stock at manufacturer.

M E M O

Spiral Fluted Taps
(for blind hole) ①Spiral Fluted Taps
(for through hole) ②Spiral Pointed Taps
(for through hole) ③

Hand Taps ④

Cemented
Carbide Taps ⑤

Roll Taps ⑥

Special Thread Taps
Simple Inspection Tools ⑦

Pipe Taps ⑧

Thread Mills
Premium Thread Mills ⑨

Dies ⑩

Center Drills
Centering Tools ⑪Precision Machinery/
Medical Surgical Instruments ⑫

7 Special Thread Taps / Simple Inspection Tools

Overall length	Thread length	Shank length	Shank dia.	Size of square	Length of square
L	ℓ	ℓs	Ds	K	ℓk

JIS

① Spiral Fluted Taps
(for blind hole)

② Spiral Fluted Taps
(for through hole)

③ Spiral Pointed Taps
(for through hole)

④ Hand Taps

⑤ Cemented Carbide Taps

⑥ Roll Taps

⑦ Special Thread Taps
Simple Inspection Tools

⑧ Pipe Taps

⑨ Thread Mills
Premium Thread Mills

⑩ Dies

⑪ Center Drills
Centering Tools

⑫ Precision Machinery/
Medical Surgical Instruments

JIS

HT MST

Hand Tap for Microscope Objective Lens



Specification

HSS



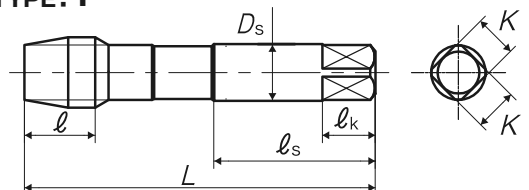
Tapping Speeds depending on Materials

Brass
黄銅
~10
(m/min)

Product Features

- Taps for Microscope Objective Lens
- The taps can be used for creating internal screw threads with machining center or by hand and rethreading as well. For through hole use.
- For RMS-type Whitworth threads specified in JIS B 7141 "Microscopes objective lens".

TYPE: 1



Segment : 1A

Size	Code	Chamfer	L (mm)	ℓ (mm)	ℓs (mm)	Ds (mm)	K (mm)	ℓk (mm)	No. of flutes	TYPE	MSRP
For Microscope Objective Lens											
20.32W36	TYRMS10LEB5	5P	87	16	44	18	14	17	4	1	¥ 30,300 □
20.32W36	TYRMS10LEBA	1.5P	87	16	44	18	14	17	4	1	¥ 30,300 □
26W36	TYRMS20LEB5	5P	96	17	49	23	17	20	4	1	¥ 44,200 □
26W36	TYRMS20LEBA	1.5P	96	17	49	23	17	20	4	1	¥ 44,200 □

Internal thread specifications of threads for microscope objective lens

unit: mm

Size	Allowable Value	Major Diameter (D)	Pitch Diameter (D ₂)	Minor Diameter (D ₁)
20.32W36	Max.	20.396	19.944	19.550
	Min.	20.320	19.868	19.474
26W36	Max.	-	25.660	25.300
	Min.	26.000	25.580	25.200

*M25 size (M25×0.75), M27 size (M27×0.75), and M32 size (M32×0.75) standards are also available. These can be supported by "HT" (See page ④-16 and 17).



The tap is used for internal threads of a microscope revolver as shown in the picture.

Chips(brass)



For Microscope Objective Lens

unit : mm

Size	Class	Major Diameter Basic Size	Pitch Diameter Basic Size	Minor Diameter Basic Size
20.32W36	-	20.320	19.868	19.416
26W36	-	26.000	25.548	25.096

Bored hole size

Size	Minor Diameter of Internal Thread (D ₁)		Bored Hole Size (Reference)
	Max.	Min.	
20.32W36	19.550	19.474	19.53
26W36	25.300	25.200	25.28

JIS

Overall length	Thread length	Shank dia.	Size of square	Length of square
L	ℓ	Ds	K	ℓ_k

SL Tr

Spiral Flute Tap for Through Hole for Trapezoidal Threads



Specification

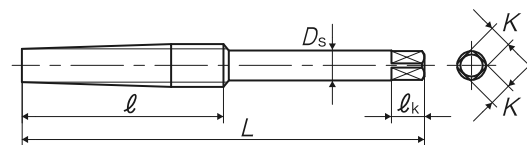


■The SL Tr is a spiral flute tap for through hole trapezoidal threads. The thread angle is 30°. The thread symbol is represented by Tr.

Tapping Speeds depending on Materials

Low carbon steels 低炭素鋼	Medium carbon steels 中炭素鋼
~5 (m/min)	~5 (m/min)

TYPE: 1



Segment : 1S

Size	Code	Chamfer	L (mm)	ℓ (mm)	Ds (mm)	K (mm)	ℓ_k (mm)	No. of flutes	TYPE	MSRP
For Trapezoidal threads										
Tr 10 × 2	LYT10Q0HEB	26P	160	70	7.8	6	9	3	1	¥ 57,200 ※
Tr 12 × 3	LYT12S0HEB	23P	190	95	9	7	10	3	1	¥ 75,600 ※
Tr 12 × 2	LYT12Q0HEB	30P	170	80	9	7	10	3	1	¥ 75,600 ※
Tr 14 × 3	LYT14S0HEB	23P	190	95	11	9	12	3	1	¥ 94,000 ※
Tr 16 × 4	LYT16U0HEB	22.5P	220	120	12	9	12	3	1	¥ 114,000 ※
Tr 16 × 3	LYT16S0HEB	25P	200	100	13	10	13	3	1	¥ 114,000 ※
Tr 18 × 4	LYT18U0HEB	22.5P	220	120	14	11	14	4	1	¥ 142,000 ※
Tr 20 × 4	LYT20U0HEB	24.5P	230	130	16	12	15	4	1	¥ 165,000 ※
Tr 22 × 5	LYT22W0HEB	22P	250	150	18	14	17	4	1	¥ 191,000 ※
Tr 24 × 5	LYT24W0HEB	24P	260	160	19	15	18	4	1	¥ 218,000 ※
Tr 25 × 5	LYT25W0HEB	25P	270	170	20	15	18	4	1	¥ 234,000 ※
Tr 26 × 5	LYT26W0HEB	27P	280	180	21	17	20	4	1	¥ 249,000 ※
Tr 28 × 5	LYT28W0HEB	28P	290	190	22	17	20	4	1	¥ 279,000 ※
Tr 30 × 6	LYT30Y0HEB	25P	300	200	24	19	22	4	1	¥ 304,000 ※

■The specifications of Tr threads and TM threads

TM screws have become the old JIS 30 degree trapezoidal thread standard, but they have already been abolished. Currently, it is the standard for Tr screws (Metric trapezoidal screws).

●Tr thread specifications.

The Tr thread specifications clearly specify tolerances for major diameters, pitch diameters, and minor diameters as shown in the table below.

<Tr thread specifications> Engagement length: N, Tolerance class: 7H Unit : mm

Size	Major Diameter		Pitch Diameter			Minor Diameter		
	Dmax	Dmin	Dmax	Dmin	TD2	Dmax	Dmin	TD1
Tr 10 × 2	10.500	9.250	9.000	0.250	8.236	8.000	0.236	
Tr 14 × 3	14.500	12.800	12.500	0.300	11.315	11.000	0.315	
Tr 20 × 4	20.500	18.355	18.000	0.355	16.375	16.000	0.375	
Tr 22 × 5	22.500	19.875	19.500	0.375	17.450	17.000	0.450	
Tr 30 × 6	31.000	27.450	27.000	0.450	24.500	24.000	0.500	

●TM thread specifications.

The TM thread specifications specify only basic sizes for major diameters, pitch diameters, and minor diameters as shown in the table below.

"Dimensional tolerances" necessary for actual machining were normally discussed and determined between the client and contractor.

<TM thread specifications> Unit : mm

Size	Major Diameter	Pitch Diameter	Minor Diameter
TM 10 × 2	10.500	9.000	8.500
TM 14 × 3	14.500	12.500	11.500
TM 20 × 4	20.500	18.000	16.500
TM 22 × 5	22.500	19.500	18.000
TM 30 × 6	30.500	27.000	25.000

7 Special Thread Taps / Simple Inspection Tools

Overall length	Thread length	Shank dia.	Size of square	Length of square
L	ℓ	Ds	K	ℓ_k

JIS

① Spiral Fluted Taps
(for blind hole)

② Spiral Fluted Taps
(for through hole)

③ Spiral Pointed Taps
(for through hole)

④ Hand Taps

⑤ Cemented Carbide Taps

⑥ Roll Taps

⑦ Special Thread Taps
Simple Inspection Tools

⑧ Pipe Taps

⑨ Thread Mills
Premium Thread Mills

⑩ Dies

⑪ Center Drills
Centering Tools

⑫ Precision Machinery/
Medical Surgical Instruments

JIS

⑦-49

SL LH Tr

A Spiral Flute Left Hand Trapezoidal Thread Tap Spiral Tap



Specification

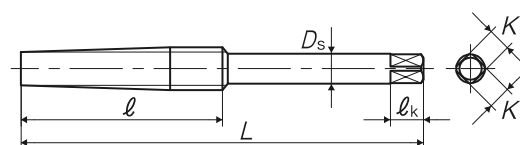


■ The SL LH Tr is a spiral flute tap for through hole tapping of a left hand trapezoidal thread. The thread angle is 30°. The thread symbol is represented by Tr.

Tapping Speeds depending on Materials

Low carbon steels 低炭素鋼	Medium carbon steels 中炭素鋼
~5 (m/min)	~5 (m/min)

TYPE: 1



Segment : 1S

Size	Code	Chamfer	L (mm)	ℓ (mm)	Ds (mm)	K (mm)	ℓ_k (mm)	No. of flutes	TYPE	MSRP
For Trapezoidal threads										
Tr 10 × 2	ZYT10Q0HEB	26P	160	70	7.8	6	9	3	1	¥ 68,600 ※
Tr 12 × 3	ZYT12S0HEB	23P	190	95	9	7	10	3	1	¥ 90,800 ※
Tr 12 × 2	ZYT12Q0HEB	30P	170	80	9	7	10	3	1	¥ 90,800 ※
Tr 14 × 3	ZYT14S0HEB	23P	190	95	11	9	12	3	1	¥ 113,000 ※
Tr 16 × 4	ZYT16U0HEB	22.5P	220	120	12	9	12	3	1	¥ 137,000 ※
Tr 16 × 3	ZYT16S0HEB	25P	200	100	13	10	13	3	1	¥ 137,000 ※
Tr 18 × 4	ZYT18U0HEB	22.5P	220	120	14	11	14	4	1	¥ 170,000 ※
Tr 20 × 4	ZYT20U0HEB	24.5P	230	130	16	12	15	4	1	¥ 197,000 ※
Tr 22 × 5	ZYT22W0HEB	22P	250	150	18	14	17	4	1	¥ 228,000 ※
Tr 24 × 5	ZYT24W0HEB	24P	260	160	19	15	18	4	1	¥ 261,000 ※
Tr 25 × 5	ZYT25W0HEB	25P	270	170	20	15	18	4	1	¥ 281,000 ※
Tr 26 × 5	ZYT26W0HEB	27P	280	180	21	17	20	4	1	¥ 299,000 ※
Tr 28 × 5	ZYT28W0HEB	28P	290	190	22	17	20	4	1	¥ 334,000 ※
Tr 30 × 6	ZYT30Y0HEB	25P	300	200	24	19	22	4	1	¥ 365,000 ※

• See page ⑦-48 for standards of Tr threads and TM threads.

Think threads with
YAMAWA

※ = Specified Distribution Items. Made to order products.

M E M O

Spiral Fluted Taps
(for blind hole) ①Spiral Fluted Taps
(for through hole) ②Spiral Pointed Taps
(for through hole) ③

Hand Taps ④

Cemented
Carbide Taps ⑤

Roll Taps ⑥

Special Thread Taps
Simple Inspection Tools ⑦

Pipe Taps ⑧

Thread Mills
Premium Thread Mills ⑨

Dies ⑩

Center Drills
Centering Tools ⑪Precision Machinery/
Medical Surgical Instruments ⑫

7 Special Thread Taps / Simple Inspection Tools

JIS

① Spiral Fluted Taps
(for blind hole)

② Spiral Fluted Taps
(for through hole)

③ Spiral Pointed Taps
(for through hole)

④ Hand Taps

⑤ Cemented Carbide Taps

⑥ Roll Taps

⑦ Special Thread Taps
Simple Inspection Tools

⑧ Pipe Taps

⑨ Thread Mills
Premium Thread Mills

Dies

⑩

⑪ Center Drills
Centering Tools

⑫ Precision Machinery/
Medical Surgical Instruments

JIS

⑦-51



SIT Simple Thread Inspection Tools

Specification

HSS

Overall length	Thread length	Thread + Neck length	Shank length	Shank dia.	Size of square	Length of square
L	ℓ	ℓn	ℓs	Ds	K	ℓk

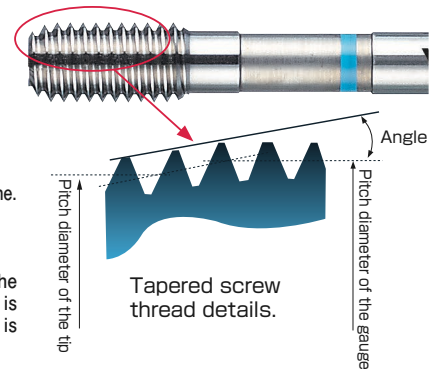
For GO (GB)



For NOT GO (NB/WB)



■ Specification of SIT is available up to M48 (U1 3/4).
For details, please contact us.



Product Features

- SIT is a simple thread inspection tool that allows you to easily check internal threads on your production line.
- The blue color is used to indicate "GO", while the red color is used for "Not Go" for easy identification and storage.
- Utilizing a high grade of HSS material, the gauge life has increased significantly.
- By using a stepped threads or tapered threads design at the front end of screw thread section, the problems in inspection were reduced while the work efficiency was improved. The tip of SIT gauge is easy to insert into an internal screw thread as the thread height gradually becomes larger. This is particularly effective when inspecting fine pitch threads.
- Note: Stepped threaded design is not used for "Not Go".

Go and Not Go notations

- SIT notations are as follows: GB (metric screw threads and unified screw threads) for GO, and NB (metric screw threads) and WB (unified screw threads) for NOT GO.

These notations conform to the "gauge symbol" of JIS standards.

■ Metric thread

Type of Thread	Thread Element	Types of Screw Limit Gauges	Gauge Symbol
Internal Thread	Pitch Diameter	GO screw plug gauge	GP
		Not GO thread plug gauge	NP

The "SIT and SITD" have different dimensions like the length of the screw thread portion and the relief shape of the threads root with respect to plug gauge, GP / NP is not used for GO use and GB is for NOT GO NB.

■ Unified thread

Type of Thread	Thread Element	Types of Screw Limit Gauges	Gauge Symbol
Internal Thread	Pitch Diameter	GO screw plug gauge (common for both work and inspection)	GP
		Not GO thread plug gauge for work	WP
		Inspection type thread plug gauge	IP

For unified screw threads, for GO gauge use the GB and for a NOT GO gauge use the WB.

Both metric screw threads and unified screw threads are manufactured in accordance with JIS standards. For a reference point: the metric screw threads have been specified to be consistent with ISO while the unified screw threads have been specified as it was before the introduction of ANSI standard.

Internal pitch diameter gauge					
Metric Thread			Unified Thread		
GP	NP		GP	IP	WP
GO screw plug gauge.			For internal thread diameter Tolerance domain		
Not GO screw plug gauge.			Inspection.		
Not GO screw plug gauge for work.			Not GO screw plug gauge for work.		
6H			2B		

Accuracy of SIT

The single pitch diameter tolerance, the thread pitch tolerance and the threads half angle tolerance are important in the internal thread accuracy measurement and are manufactured using the same accuracy of JIS-compliant thread plug gauges.

- Comparison between the screw thread "GB-6H" and the screw thread plug gauge "GP-6H".

Unit : mm

Size	Major Diameter				Pitch Diameter				Pitch Tol.	Thread Half Angle Tol.
	Criteria Inch	Max	Min	Tol.	Basic Dia.	Max	Min	Tol.	(±)	(± Min.)
GB-6H M6 × 1	6.000	6.023	6.001	0.022	5.350	5.3675	5.3565	0.011	0.005	15
GP-6H M6 × 1	6.000	6.023	6.001	0.022	5.350	5.3675	5.3565	0.011	0.005	15

The pitch diameter is a single pitch diameter tolerance. The tolerance of the pitch also includes the deviation of the lead.

The screw thread precision is the same as a thread gauge, but some of the specifications like length of screw thread portion and the relief shape of the thread root are originated by YAMAWA. Therefore, these gauges are not to be called "thread gauge" and distinguished as "simple inspection tools for internal screw threads".



- Comparison of Not GO thread portion "NB - 6H" and Not GO screw plug gauge "NP - 6H".

Unit : mm

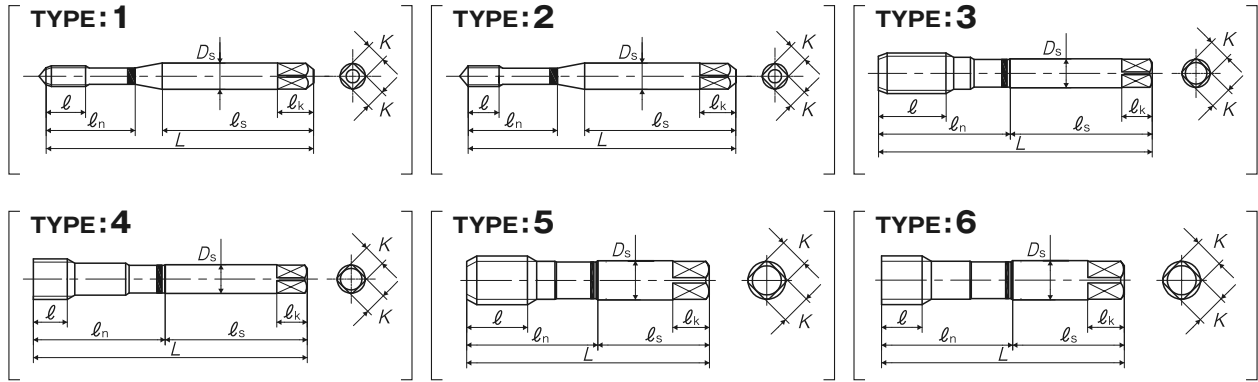
Size	Major Diameter				Pitch Diameter				Pitch Tol.	Thread Half Angle Tol.
	Criteria Inch	Max	Min	Tol.	Basic Dia.	Max	Min	Tol.	(±)	(± Min.)
NB-6H M6 × 1	5.7055	5.7165	5.6945	0.022	5.500	5.511	5.500	0.011	0.005	16
NP-6H M6 × 1	5.7055	5.7165	5.6945	0.022	5.500	5.511	5.500	0.011	0.005	16

The pitch diameter is a single pitch diameter tolerance. The tolerance of the pitch also includes the deviation of the lead.

Overall length	Thread length	Thread + Neck length	Shank length	Shank dia.	Size of square	Length of square
L	ℓ	ℓ _n	ℓ _s	D _s	K	ℓ _k

7

JIS



Segment : 7B

Size	Class	Code	L (mm)	ℓ (mm)	ℓ _n (mm)	ℓ _s (mm)	D _s (mm)	K (mm)	ℓ _k (mm)	TYPE	MSRP
For Metric Threads											
M2 × 0.4	GB	6H ITM62.0EG	42	5.5	12	27	3	2.5	5	1	¥ 7,560 □
M2 × 0.4	NB	6H ITM62.0EN	42	4.5	12	27	3	2.5	5	2	¥ 7,560 □
M2 × 0.25	GB	5H ITM52.0BG	42	4	12	27	3	2.5	5	1	¥ 12,000 □
M2 × 0.25	NB	5H ITM52.0BN	42	3.5	12	27	3	2.5	5	2	¥ 12,000 □
M2.2 × 0.45	GB	6H ITM62.2FG	42	5.5	12	27	3	2.5	5	1	¥ 7,560 □
M2.2 × 0.45	NB	6H ITM62.2FN	42	4.5	12	27	3	2.5	5	2	¥ 7,560 □
M2.2 × 0.25	GB	5H ITM52.2BG	42	4	12	27	3	2.5	5	1	¥ 12,000 □
M2.2 × 0.25	NB	5H ITM52.2BN	42	3.5	12	27	3	2.5	5	2	¥ 12,000 □
M2.3 × 0.4	GB	6H ITM62.3EG	42	5.5	12	27	3	2.5	5	1	¥ 7,560 □
M2.3 × 0.4	NB	6H ITM62.3EN	42	4.5	12	27	3	2.5	5	2	¥ 7,560 □
M2.3 × 0.25	GB	5H ITM52.3BG	42	4	12	27	3	2.5	5	1	¥ 12,000 □
M2.3 × 0.25	NB	5H ITM52.3BN	42	3.5	12	27	3	2.5	5	2	¥ 12,000 □
M2.5 × 0.45	GB	6H ITM62.5FG	46	5.5	14	29	3	2.5	5	1	¥ 7,190 □
M2.5 × 0.45	NB	6H ITM62.5FN	46	4.5	14	29	3	2.5	5	2	¥ 7,190 □
M2.5 × 0.35	GB	6H ITM62.5DG	46	4.5	14	29	3	2.5	5	1	¥ 11,400 □
M2.5 × 0.35	NB	6H ITM62.5DN	46	3.5	14	29	3	2.5	5	2	¥ 11,400 □
M2.6 × 0.45	GB	6H ITM62.6FG	46	5.5	14	29	3	2.5	5	1	¥ 7,190 □
M2.6 × 0.45	NB	6H ITM62.6FN	46	4.5	14	29	3	2.5	5	2	¥ 7,190 □
M2.6 × 0.35	GB	6H ITM62.6DG	46	4.5	14	29	3	2.5	5	1	¥ 11,400 □
M2.6 × 0.35	NB	6H ITM62.6DN	46	3.5	14	29	3	2.5	5	2	¥ 11,400 □
M3 × 0.5	GB	6H ITM63.0GG	46	5.5	14	26	4	3.2	6	1	¥ 6,680 □
M3 × 0.5	NB	6H ITM63.0GN	46	4.5	14	26	4	3.2	6	2	¥ 6,680 □
M3 × 0.35	GB	6H ITM63.0DG	46	4.5	14	26	4	3.2	6	1	¥ 10,300 □
M3 × 0.35	NB	6H ITM63.0DN	46	3.5	14	26	4	3.2	6	2	¥ 10,300 □
M3.5 × 0.6	GB	6H ITM63.5HG	52	7.5	16	29	5	4	7	1	¥ 6,680 □
M3.5 × 0.6	NB	6H ITM63.5HN	52	6	16	29	5	4	7	2	¥ 6,680 □
M3.5 × 0.35	GB	6H ITM63.5DG	52	4.5	16	29	5	4	7	1	¥ 9,520 □
M3.5 × 0.35	NB	6H ITM63.5DN	52	3.5	16	29	5	4	7	2	¥ 9,520 □
M4 × 0.7	GB	6H ITM64.0IG	52	7.5	17	29	5	4	7	1	¥ 6,120 □
M4 × 0.7	NB	6H ITM64.0IN	52	6	17	29	5	4	7	2	¥ 6,120 □
M4 × 0.5	GB	6H ITM64.0GG	52	7.5	17	29	5	4	7	1	¥ 8,020 □
M4 × 0.5	NB	6H ITM64.0GN	52	6	17	29	5	4	7	2	¥ 8,020 □
M4.5 × 0.75	GB	6H ITM64.5JG	60	7.5	21	33	5.5	4.5	7	1	¥ 8,090 □
M4.5 × 0.75	NB	6H ITM64.5JN	60	6	21	33	5.5	4.5	7	2	¥ 8,090 □
M4.5 × 0.5	GB	6H ITM64.5GG	60	7.5	21	33	5.5	4.5	7	1	¥ 9,180 □
M4.5 × 0.5	NB	6H ITM64.5GN	60	6	21	33	5.5	4.5	7	2	¥ 9,180 □
M5 × 0.8	GB	6H ITM65.0KG	60	10	22	33	5.5	4.5	7	1	¥ 6,120 □

Spiral Fluted Taps
(for blind hole) ①Spiral Fluted Taps
(for through hole) ②Spiral Pointed Taps
(for through hole) ③

Hand Taps ④

Cemented
Carbide Taps ⑤

Roll Taps ⑥

Special Thread Taps
Simple Inspection Tools ⑦

Pipe Taps ⑧

Thread Mills
Premium Thread Mills ⑨

Dies ⑩

Center Drills
Centering Tools ⑪Precision Machinery/
Medical Surgical Instruments ⑫

JIS

⑦-52

Think threads with
YAMAWA

□=In stock at manufacturer.

7 Special Thread Taps / Simple Inspection Tools

Overall length	Thread length	Thread + Neck length	Shank length	Shank dia.	Size of square	Length of square
L	ℓ	ℓn	ℓs	Ds	K	ℓk

JIS

SIT Simple Thread Inspection Tools

	Size	Class	Code	L (mm)	ℓ (mm)	ℓn (mm)	ℓs (mm)	Ds (mm)	K (mm)	ℓk (mm)	TYPE	MSRP
① Spiral Fluted Taps (for blind hole)	M5 × 0.8	NB	6H ITM65.0KN	60	6	22	33	5.5	4.5	7	2	¥ 6,120 □
	M5 × 0.5	GB	6H ITM65.0GG	60	7	22	33	5.5	4.5	7	1	¥ 9,180 □
	M5 × 0.5	NB	6H ITM65.0GN	60	6	22	33	5.5	4.5	7	2	¥ 9,180 □
② Spiral Fluted Taps (for through hole)	M5.5 × 0.5	GB	6H ITM65.5GG	62	7	26	33	6	4.5	7	1	¥ 9,540 □
	M5.5 × 0.5	NB	6H ITM65.5GN	62	6	26	33	6	4.5	7	2	¥ 9,540 □
	M6 × 1	GB	6H ITM66.0MG	62	10	26	33	6	4.5	7	1	¥ 6,360 □
③ Spiral Pointed Taps (for through hole)	M6 × 1	NB	6H ITM66.0MN	62	6	26	33	6	4.5	7	2	¥ 6,360 □
	M6 × 0.75	GB	6H ITM66.0JG	62	7.5	26	33	6	4.5	7	1	¥ 7,640 □
	M6 × 0.75	NB	6H ITM66.0JN	62	6	26	33	6	4.5	7	2	¥ 7,640 □
④ Hand Taps	M7 × 1	GB	6H ITM67.0MG	70	12	34	36	6.2	5	8	3	¥ 6,950 □
	M7 × 1	NB	6H ITM67.0MN	70	6	34	36	6.2	5	8	4	¥ 6,950 □
	M7 × 0.75	GB	6H ITM67.0JG	70	9	34	36	6.2	5	8	3	¥ 8,340 □
⑤ Cemented Carbide Taps	M7 × 0.75	NB	6H ITM67.0JN	70	6	34	36	6.2	5	8	4	¥ 8,340 □
	M8 × 1.25	GB	6H ITM68.0NG	70	15	34	36	6.2	5	8	3	¥ 6,950 □
	M8 × 1.25	NB	6H ITM68.0NN	70	10	34	36	6.2	5	8	4	¥ 6,950 □
⑥ Roll Taps	M8 × 1	GB	6H ITM68.0MG	70	12	34	36	6.2	5	8	3	¥ 6,950 □
	M8 × 1	NB	6H ITM68.0MN	70	6	34	36	6.2	5	8	4	¥ 6,950 □
	M8 × 0.75	GB	6H ITM68.0JG	70	9	34	36	6.2	5	8	3	¥ 8,340 □
⑦ Special Thread Taps Simple Inspection Tools	M8 × 0.75	NB	6H ITM68.0JN	70	6	34	36	6.2	5	8	4	¥ 8,340 □
	M9 × 1.25	GB	6H ITM69.0NG	75	15	37	38	7	5.5	8	3	¥ 8,100 □
	M9 × 1.25	NB	6H ITM69.0NN	75	10	37	38	7	5.5	8	4	¥ 8,100 □
⑧ Pipe Taps	M9 × 1	GB	6H ITM69.0MG	75	12	37	38	7	5.5	8	3	¥ 8,100 □
	M9 × 1	NB	6H ITM69.0MN	75	6	37	38	7	5.5	8	4	¥ 8,100 □
	M9 × 0.75	GB	6H ITM69.0JG	75	9	37	38	7	5.5	8	3	¥ 8,100 □
⑨ Thread Mills Premium Thread Mills	M9 × 0.75	NB	6H ITM69.0JN	75	6	37	38	7	5.5	8	4	¥ 8,100 □
	M10 × 1.5	GB	6H ITM6010OG	75	15	37	38	7	5.5	8	3	¥ 6,950 □
	M10 × 1.5	NB	6H ITM6010ON	75	10	37	38	7	5.5	8	4	¥ 6,950 □
⑩ Dies	M10 × 1.25	GB	6H ITM6010NG	75	15	37	38	7	5.5	8	3	¥ 6,950 □
	M10 × 1.25	NB	6H ITM6010NN	75	10	37	38	7	5.5	8	4	¥ 6,950 □
	M10 × 1	GB	6H ITM6010MG	75	12	37	38	7	5.5	8	3	¥ 8,100 □
⑪ Center Drills Centering Tools	M10 × 1	NB	6H ITM6010MN	75	6	37	38	7	5.5	8	4	¥ 8,100 □
	M10 × 0.75	GB	6H ITM6010JG	75	9	37	38	7	5.5	8	3	¥ 8,100 □
	M10 × 0.75	NB	6H ITM6010JN	75	6	37	38	7	5.5	8	4	¥ 8,100 □
⑫ Precision Machinery/ Medical Surgical Instruments	M11 × 1.5	GB	6H ITM6011OG	82	19	40	42	8.5	6.5	9	3	¥ 8,570 □
	M11 × 1.5	NB	6H ITM6011ON	82	10	40	42	8.5	6.5	9	4	¥ 8,570 □
	M11 × 1	GB	6H ITM6011MG	82	12	40	42	8.5	6.5	9	3	¥ 8,570 □
	M11 × 1	NB	6H ITM6011MN	82	6	40	42	8.5	6.5	9	4	¥ 8,570 □
	M11 × 0.75	GB	6H ITM6011JG	82	10	40	42	8.5	6.5	9	3	¥ 8,570 □
	M11 × 0.75	NB	6H ITM6011JN	82	6	40	42	8.5	6.5	9	4	¥ 8,570 □
	M12 × 1.75	GB	6H ITM6012PG	82	20	40	42	8.5	6.5	9	3	¥ 7,240 □
	M12 × 1.75	NB	6H ITM6012PN	82	10	40	42	8.5	6.5	9	4	¥ 7,240 □
	M12 × 1.5	GB	6H ITM6012OG	82	20	40	42	8.5	6.5	9	3	¥ 7,240 □
	M12 × 1.5	NB	6H ITM6012ON	82	10	40	42	8.5	6.5	9	4	¥ 7,240 □
	M12 × 1.25	GB	6H ITM6012NG	82	15	40	42	8.5	6.5	9	3	¥ 7,240 □
	M12 × 1.25	NB	6H ITM6012NN	82	10	40	42	8.5	6.5	9	4	¥ 7,240 □
	M12 × 1	GB	6H ITM6012MG	82	12	40	42	8.5	6.5	9	3	¥ 8,570 □
	M12 × 1	NB	6H ITM6012MN	82	6	40	42	8.5	6.5	9	4	¥ 8,570 □
	M14 × 2	GB	6H ITM6014QG	88	20	43	45	10.5	8	11	3	¥ 7,590 □
	M14 × 2	NB	6H ITM6014QN	88	12	43	45	10.5	8	11	4	¥ 7,590 □
	M14 × 1.5	GB	6H ITM6014OG	88	20	43	45	10.5	8	11	3	¥ 7,590 □

JIS

Overall length	Thread length	Thread + Neck length	Shank length	Shank dia.	Size of square	Length of square
L	ℓ	ℓn	ℓs	Ds	K	ℓk

SIT Simple Thread Inspection Tools

Size	Class	Code	L (mm)	ℓ (mm)	ℓn (mm)	ℓs (mm)	Ds (mm)	K (mm)	ℓk (mm)	TYPE	MSRP
M14 × 1.5	NB	6H ITM6014ON	88	12	43	45	10.5	8	11	4	¥ 7,590 □
M14 × 1.25	GB	6H ITM6014NG	88	15	43	45	10.5	8	11	3	¥ 8,720 □
M14 × 1.25	NB	6H ITM6014NN	88	12	43	45	10.5	8	11	4	¥ 8,720 □
M14 × 1	GB	6H ITM6014MG	88	12	43	45	10.5	8	11	3	¥ 8,720 □
M14 × 1	NB	6H ITM6014MN	88	6	43	45	10.5	8	11	4	¥ 8,720 □
M15 × 1.5	GB	6H ITM6015OG	95	19	47	48	12.5	10	13	3	¥ 8,810 □
M15 × 1.5	NB	6H ITM6015ON	95	10	47	48	12.5	10	13	4	¥ 8,810 □
M15 × 1	GB	6H ITM6015MG	95	12	47	48	12.5	10	13	3	¥ 8,810 □
M15 × 1	NB	6H ITM6015MN	95	10	47	48	12.5	10	13	4	¥ 8,810 □
M16 × 2	GB	6H ITM6016QG	95	20	47	48	12.5	10	13	3	¥ 8,240 □
M16 × 2	NB	6H ITM6016QN	95	12	47	48	12.5	10	13	4	¥ 8,240 □
M16 × 1.5	GB	6H ITM6016OG	95	20	47	48	12.5	10	13	3	¥ 8,240 □
M16 × 1.5	NB	6H ITM6016ON	95	12	47	48	12.5	10	13	4	¥ 8,240 □
M16 × 1	GB	6H ITM6016MG	95	12	47	48	12.5	10	13	3	¥ 8,810 □
M16 × 1	NB	6H ITM6016MN	95	8	47	48	12.5	10	13	4	¥ 8,810 □
M17 × 1.5	GB	6H ITM6017OG	100	19	49	51	14	11	14	3	¥ 11,400 □
M17 × 1.5	NB	6H ITM6017ON	100	10	49	51	14	11	14	4	¥ 11,400 □
M17 × 1	GB	6H ITM6017MG	100	12	49	51	14	11	14	3	¥ 11,400 □
M17 × 1	NB	6H ITM6017MN	100	10	49	51	14	11	14	4	¥ 11,400 □
M18 × 2.5	GB	6H ITM6018RG	100	25	49	51	14	11	14	3	¥ 10,300 □
M18 × 2.5	NB	6H ITM6018RN	100	16	49	51	14	11	14	4	¥ 10,300 □
M18 × 2	GB	6H ITM6018QG	100	20	49	51	14	11	14	3	¥ 10,300 □
M18 × 2	NB	6H ITM6018QN	100	12	49	51	14	11	14	4	¥ 10,300 □
M18 × 1.5	GB	6H ITM6018OG	100	20	49	51	14	11	14	3	¥ 10,300 □
M18 × 1.5	NB	6H ITM6018ON	100	12	49	51	14	11	14	4	¥ 10,300 □
M18 × 1	GB	6H ITM6018MG	100	12	49	51	14	11	14	3	¥ 11,400 □
M18 × 1	NB	6H ITM6018MN	100	8	49	51	14	11	14	4	¥ 11,400 □
M20 × 2.5	GB	6H ITM6020RG	105	25	55	50	15	12	15	5	¥ 12,500 □
M20 × 2.5	NB	6H ITM6020RN	105	16	55	50	15	12	15	6	¥ 12,500 □
M20 × 2	GB	6H ITM6020QG	105	20	55	50	15	12	15	5	¥ 12,500 □
M20 × 2	NB	6H ITM6020QN	105	12	55	50	15	12	15	6	¥ 12,500 □
M20 × 1.5	GB	6H ITM6020OG	105	20	55	50	15	12	15	5	¥ 12,500 □
M20 × 1.5	NB	6H ITM6020ON	105	12	55	50	15	12	15	6	¥ 12,500 □
M20 × 1	GB	6H ITM6020MG	105	14	55	50	15	12	15	5	¥ 16,000 □
M20 × 1	NB	6H ITM6020MN	105	8	55	50	15	12	15	6	¥ 16,000 □
M22 × 2.5	GB	6H ITM6022RG	115	33	60	55	17	13	16	5	¥ 17,800 □
M22 × 2.5	NB	6H ITM6022RN	115	16	60	55	17	13	16	6	¥ 17,800 □
M22 × 2	GB	6H ITM6022QG	115	20	60	55	17	13	16	5	¥ 17,800 □
M22 × 2	NB	6H ITM6022QN	115	14	60	55	17	13	16	6	¥ 17,800 □
M22 × 1.5	GB	6H ITM6022OG	115	20	60	55	17	13	16	5	¥ 17,800 □
M22 × 1.5	NB	6H ITM6022ON	115	14	60	55	17	13	16	6	¥ 17,800 □
M22 × 1	GB	6H ITM6022MG	115	14	60	55	17	13	16	5	¥ 21,200 □
M22 × 1	NB	6H ITM6022MN	115	8	60	55	17	13	16	6	¥ 21,200 □
M24 × 3	GB	6H ITM6024SG	120	30	65	55	19	15	18	5	¥ 22,000 □
M24 × 3	NB	6H ITM6024SN	120	20	65	55	19	15	18	6	¥ 22,000 □
M24 × 2	GB	6H ITM6024QG	120	20	65	55	19	15	18	5	¥ 22,000 □
M24 × 2	NB	6H ITM6024QN	120	14	65	55	19	15	18	6	¥ 22,000 □
M24 × 1.5	GB	6H ITM6024OG	120	20	65	55	19	15	18	5	¥ 22,000 □
M24 × 1.5	NB	6H ITM6024ON	120	14	65	55	19	15	18	6	¥ 22,000 □
M24 × 1	GB	6H ITM6024MG	120	14	65	55	19	15	18	5	¥ 28,200 □

7

JIS

Spiral Fluted Taps
(for fluted hole)

①

Spiral Fluted Taps
(for through hole)

②

Spiral Pointed Taps
(for through hole)

③

Hand Taps

④

Cemented
Carbide Taps

⑤

Roll Taps

⑥

Special Thread Taps
Simple Inspection Tools

⑦

Pipe Taps

⑧

Thread Mills
Premium Thread Mills

⑨

Dies

⑩

Center Drills
Centering Tools

⑪

Precision Machinery/
Medical Surgical Instruments

⑫

JIS

⑦-54

□=In stock at manufacturer.

 Think threads with
YAMAWA

7 Special Thread Taps / Simple Inspection Tools

Overall length	Thread length	Thread + Neck length	Shank length	Shank dia.	Size of square	Length of square
L	ℓ	ℓn	ℓs	Ds	K	ℓk

JIS

SIT Simple Thread Inspection Tools

Size		Class	Code	L (mm)	ℓ (mm)	ℓn (mm)	ℓs (mm)	Ds (mm)	K (mm)	ℓk (mm)	TYPE	MSRP
M24 × 1	NB	6H	ITM6024MN	120	8	65	55	19	15	18	6	¥ 28,200
For Unified Threads												
No.2-56UNC	GB	2B	ITM2UN2EG	42	4.5	12	26	3	2.5	5	1	¥ 8,520
No.2-56UNC	WB	2B	ITM2UN2EN	42	3.5	12	26	3	2.5	5	2	¥ 8,520
No.2-64UNF	GB	2B	ITM2UN2DG	42	4.5	12	26	3	2.5	5	1	¥ 8,520
No.2-64UNF	WB	2B	ITM2UN2DN	42	3.5	12	26	3	2.5	5	2	¥ 8,520
No.3-48UNC	GB	2B	ITM2UN3FG	46	6.5	14	28	3	2.5	5	1	¥ 8,240
No.3-48UNC	WB	2B	ITM2UN3FN	46	3.5	14	28	3	2.5	5	2	¥ 8,240
No.3-56UNF	GB	2B	ITM2UN3EG	46	6.5	14	28	3	2.5	5	1	¥ 8,240
No.3-56UNF	WB	2B	ITM2UN3EN	46	3.5	14	28	3	2.5	5	2	¥ 8,240
No.4-40UNC	GB	2B	ITM2UN4HG	46	6.5	14	25	4	3.2	6	1	¥ 7,800
No.4-40UNC	WB	2B	ITM2UN4HN	46	3.5	14	25	4	3.2	6	2	¥ 7,800
No.4-48UNF	GB	2B	ITM2UN4FG	46	6.5	14	25	4	3.2	6	1	¥ 7,800
No.4-48UNF	WB	2B	ITM2UN4FN	46	3.5	14	25	4	3.2	6	2	¥ 7,800
No.5-40UNC	GB	2B	ITM2UN5HG	52	6.5	16	28	5	4	7	1	¥ 7,440
No.5-40UNC	WB	2B	ITM2UN5HN	52	3.5	16	28	5	4	7	2	¥ 7,440
No.5-44UNF	GB	2B	ITM2UN5GG	52	6.5	16	28	5	4	7	1	¥ 7,440
No.5-44UNF	WB	2B	ITM2UN5GN	52	3.5	16	28	5	4	7	2	¥ 7,440
No.6-32UNC	GB	2B	ITM2UN6JG	52	7	17	27	5	4	7	1	¥ 7,440
No.6-32UNC	WB	2B	ITM2UN6JN	52	3.5	17	27	5	4	7	2	¥ 7,440
No.6-40UNF	GB	2B	ITM2UN6HG	52	7	17	27	5	4	7	1	¥ 7,440
No.6-40UNF	WB	2B	ITM2UN6HN	52	3.5	17	27	5	4	7	2	¥ 7,440
No.8-32UNC	GB	2B	ITM2UN8JG	60	9	22	31	5.5	4.5	7	1	¥ 7,370
No.8-32UNC	WB	2B	ITM2UN8JN	60	5	22	31	5.5	4.5	7	2	¥ 7,370
No.8-36UNF	GB	2B	ITM2UN8IG	60	9	22	31	5.5	4.5	7	1	¥ 7,370
No.8-36UNF	WB	2B	ITM2UN8IN	60	5	22	31	5.5	4.5	7	2	¥ 7,370
No.10-24UNC	GB	2B	ITM2UNAMG	60	9.5	22	32	5.5	4.5	7	1	¥ 7,370
No.10-24UNC	WB	2B	ITM2UNAMN	60	5	22	32	5.5	4.5	7	2	¥ 7,370
No.10-32UNF	GB	2B	ITM2UNA JG	60	9.5	22	32	5.5	4.5	7	1	¥ 7,370
No.10-32UNF	WB	2B	ITM2UNA JN	60	5	22	32	5.5	4.5	7	2	¥ 7,370
No.12-24UNC	GB	2B	ITM2UNCMG	62	9.5	26	32	6	4.5	7	1	¥ 7,320
No.12-24UNC	WB	2B	ITM2UNCMN	62	5	26	32	6	4.5	7	2	¥ 7,320
No.12-28UNF	GB	2B	ITM2UNCKG	62	9.5	26	32	6	4.5	7	1	¥ 7,320
No.12-28UNF	WB	2B	ITM2UNCKN	62	5	26	32	6	4.5	7	2	¥ 7,320
1/4-20UNC	GB	2B	ITM2U04NG	62	15	26	32	6	4.5	7	1	¥ 7,320
1/4-20UNC	WB	2B	ITM2U04NN	62	10	26	32	6	4.5	7	2	¥ 7,320
1/4-28UNF	GB	2B	ITM2U04KG	62	12	26	32	6	4.5	7	1	¥ 7,320
1/4-28UNF	WB	2B	ITM2U04KN	62	7	26	32	6	4.5	7	2	¥ 7,320
5/16-18UNC	GB	2B	ITM2U05OG	70	15	34	36	6.2	5	8	3	¥ 7,500
5/16-18UNC	WB	2B	ITM2U05ON	70	10	34	36	6.2	5	8	4	¥ 7,500
5/16-24UNF	GB	2B	ITM2U05MG	70	15	34	36	6.2	5	8	3	¥ 7,500
5/16-24UNF	WB	2B	ITM2U05MN	70	7	34	36	6.2	5	8	4	¥ 7,500
3/8-16UNC	GB	2B	ITM2U06PG	75	17	37	38	7	5.5	8	3	¥ 7,610
3/8-16UNC	WB	2B	ITM2U06PN	75	10	37	38	7	5.5	8	4	¥ 7,610
3/8-24UNF	GB	2B	ITM2U06MG	75	17	37	38	7	5.5	8	3	¥ 7,610
3/8-24UNF	WB	2B	ITM2U06MN	75	10	37	38	7	5.5	8	4	¥ 7,610
7/16-14UNC	GB	2B	ITM2U07QG	82	17	40	42	8.5	6.5	9	3	¥ 7,880
7/16-14UNC	WB	2B	ITM2U07QN	82	10	40	42	8.5	6.5	9	4	¥ 7,880
7/16-20UNF	GB	2B	ITM2U07NG	82	17	40	42	8.5	6.5	9	3	¥ 7,880
7/16-20UNF	WB	2B	ITM2U07NN	82	10	40	42	8.5	6.5	9	4	¥ 7,880

① Spiral Fluted Taps
(for blind hole)

② Spiral Fluted Taps
(for through hole)

③ Spiral Pointed Taps
(for through hole)

④ Hand Taps

⑤ Cemented Carbide Taps

⑥ Roll Taps

⑦ Special Thread Taps
Simple Inspection Tools

⑧ Pipe Taps

⑨ Thread Mills
Premium Thread Mills

⑩ Dies

⑪ Center Drills
Centering Tools

⑫ Precision Machinery/
Medical Surgical Instruments

JIS

⑦-55

Think threads with
YAMAWA □=In stock at manufacturer.

Overall length	Thread length	Thread + Neck length	Shank length	Shank dia.	Size of square	Length of square
L	ℓ	ℓn	ℓs	Ds	K	ℓk

SIT Simple Thread Inspection Tools

Size		Class	Code	L (mm)	ℓ (mm)	ℓn (mm)	ℓs (mm)	Ds (mm)	K (mm)	ℓk (mm)	TYPE	MSRP
1/2-13UNC	GB	2B	ITM2U08RG	88	17	43	45	10.5	8	11	3	¥ 8,270 □
1/2-13UNC	WB	2B	ITM2U08RN	88	13	43	45	10.5	8	11	4	¥ 8,270 □
1/2-20UNF	GB	2B	ITM2U08NG	88	17	43	45	10.5	8	11	3	¥ 8,270 □
1/2-20UNF	WB	2B	ITM2U08NN	88	10	43	45	10.5	8	11	4	¥ 8,270 □
9/16-12UNC	GB	2B	ITM2U09SG	95	26	47	48	12.5	10	13	3	¥ 8,440 □
9/16-12UNC	WB	2B	ITM2U09SN	95	17	47	48	12.5	10	13	4	¥ 8,440 □
9/16-18UNF	GB	2B	ITM2U09OG	95	20	47	48	12.5	10	13	3	¥ 8,440 □
9/16-18UNF	WB	2B	ITM2U09ON	95	13	47	48	12.5	10	13	4	¥ 8,440 □
5/8-11UNC	GB	2B	ITM2U10UG	95	26	47	48	12.5	10	13	3	¥ 8,440 □
5/8-11UNC	WB	2B	ITM2U10UN	95	17	47	48	12.5	10	13	4	¥ 8,440 □
5/8-18UNF	GB	2B	ITM2U10OG	95	20	47	48	12.5	10	13	3	¥ 8,440 □
5/8-18UNF	WB	2B	ITM2U10ON	95	13	47	48	12.5	10	13	4	¥ 8,440 □

7

JIS

Spiral Fluted Taps
(for blind hole)

①

Spiral Fluted Taps
(for through hole)

②

Spiral Pointed Taps
(for through hole)

③

Hand Taps

④

Cemented
Carbide Taps

⑤

Roll Taps

⑥

Special Thread Taps
Simple Inspection Tools

⑦

Pipe Taps

⑧

Thread Mills
Premium Thread Mills

⑨

Dies

⑩

Center Drills
Centering Tools

⑪

Precision Machinery/
Medical Surgical Instruments

⑫

JIS

⑦-56

□=In stock at manufacturer.

Think threads with
YAMAWA

7 Special Thread Taps / Simple Inspection Tools

Overall length	GO part	NOT-GO part	Recess length	Thread + Neck length	Shank length	Shank dia.	Size of square	Length of square
L	ℓ_1	ℓ_2	ℓ_3	ℓ_n	ℓ_s	Ds	K	ℓ_k

JIS

① Spiral Fluted Taps
(for blind hole)

② Spiral Fluted Taps
(for through hole)

③ Spiral Pointed Taps
(for through hole)

④ Hand Taps

⑤ Cemented Carbide Taps

⑥ Roll Taps

⑦ Special Thread Taps
Simple Inspection Tools

⑧ Pipe Taps

⑨ Thread Mills
Premium Thread Mills

⑩ Dies

⑪ Center Drills
Centering Tools

⑫ Precision Machinery/
Medical Surgical Instruments

SITD

SITD

Simple Thread Inspection Tools,
Tandem Type

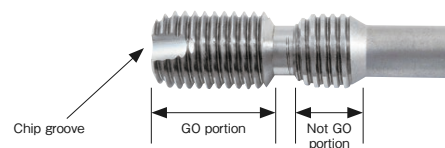
Specification

HSS



Product Features

- The SITD has two "screw threaded portions" in an integrated shape on one gauge. It has sections for Go threads and Not Go threads combined, thus it can be used in a continuous measurement of the GO (GP) and the NOT GO (NP / WP) with one plug gauge. It is an inspection tool that can be completed in one measurement.
- SITD is installed in a screw tightening machine when used.
- For use with small diameter fine pitch threads. Smooth measurement can be carried out by using the stepped thread even for screw inspection that is difficult to insert.
- To ensure accurate inspection, it is mandatory to remove all small debris in the inside of the internal thread before inserting the gauge into the thread thus, the chip groove end part is used for this purpose.



The accuracy of the SITD

The single pitch diameter tolerance, the pitch tolerance and the threads half angle allowance are all important in the accurate measurement of an internal screw thread. The SITD gauges are manufactured to the same accuracy as that of a thread plug gauge.

■ Comparison between the GO screw thread "GB-6H" and the GO screw thread plug gauge "GP-6H" Unit: mm

Size	Major Diameter				Pitch Diameter				Pitch Tol.	Thread Half Angle Tol.
	Basic Size	Max	Min	Tol.	Basic Dia.	Max	Min	Tol.	(±)	(± Min.)
GB-6H M6 × 1	6.000	6.023	6.001	0.022	5.350	5.3675	5.3565	0.011	0.005	15
GP-6H M6 × 1	6.000	6.023	6.001	0.022	5.350	5.3675	5.3565	0.011	0.005	15

The pitch diameter is a single pitch diameter tolerance.
The tolerance of the pitch also includes the deviation of the lead.

■ Comparison of NOT GO thread portion "NB-6H" and NOT GO screw thread plug gauge "NP-6H" Unit: mm

Size	Major Diameter				Pitch Diameter				Pitch Tol.	Thread Half Angle Tol.
	Basic Size	Max	Min	Tol.	Basic Dia.	Max	Min	Tol.	(±)	(± Min.)
NB-6H M6 × 1	5.7055	5.7165	5.6945	0.022	5.500	5.511	5.500	0.011	0.005	16
NP-6H M6 × 1	5.7055	5.7165	5.6945	0.022	5.500	5.511	5.500	0.011	0.005	16

The pitch diameter is a single pitch diameter tolerance.
The tolerance of the pitch also includes the deviation of the lead.

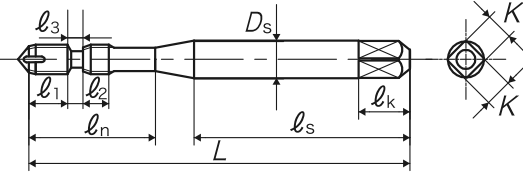
* The screw thread precision is the same as a thread gauge, but since some of the specifications like length of screw thread portion and the relief shape of the thread root are originated by YAMAWA. Therefore, these gauges are not to be called "thread gauge" and distinguished as "simple inspection tools for internal screw threads".

The SITD is distinguished as a simple inspection tool of internal screw threads.

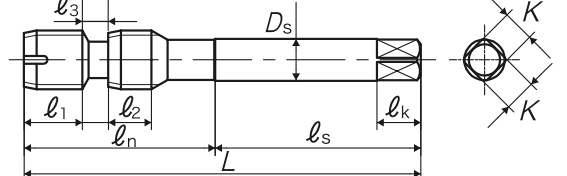
JIS

Overall length	GO part	NOT-GO part	Recess length	Thread + Neck length	Shank length	Shank dia.	Size of square	Length of square
L	ℓ_1	ℓ_2	ℓ_3	ℓ_n	ℓ_s	Ds	K	ℓ_k

TYPE: 1



TYPE: 2



Segment : 7B

Size	Class	Code	L (mm)	ℓ_1 (mm)	ℓ_2 (mm)	ℓ_3 (mm)	ℓ_n (mm)	ℓ_s (mm)	Ds (mm)	K (mm)	ℓ_k (mm)	TYPE	MSRP
For Metric Threads													
M2 × 0.4	6H	ITDM62.0E	42	4	2	1.2	12	27	3	2.5	5	1	¥ 28,400 □
M2 × 0.25	5H	ITDM52.0B	42	4.9	1.3	1	12	27	3	2.5	5	1	¥ 38,600 □
M2.2 × 0.45	6H	ITDM62.2F	42	4.4	2.3	1.4	12	27	3	2.5	5	1	¥ 28,400 □
M2.2 × 0.25	5H	ITDM52.2B	42	5.8	1.3	1	12	27	3	2.5	5	1	¥ 38,600 □
M2.3 × 0.4	6H	ITDM62.3E	42	4	2	1.2	12	27	3	2.5	5	1	¥ 28,400 □
M2.3 × 0.25	5H	ITDM52.3B	42	4.9	1.3	1	12	27	3	2.5	5	1	¥ 38,600 □
M2.5 × 0.45	6H	ITDM62.5F	46	4.4	2.3	1.4	14	29	3	2.5	5	1	¥ 25,600 □
M2.5 × 0.35	6H	ITDM62.5D	46	5.2	1.8	1.1	14	29	3	2.5	5	1	¥ 34,500 □
M2.6 × 0.45	6H	ITDM62.6F	46	4.4	2.3	1.4	14	29	3	2.5	5	1	¥ 25,600 □
M2.6 × 0.35	6H	ITDM62.6D	46	5.2	1.8	1.1	14	29	3	2.5	5	1	¥ 34,500 □
M3 × 0.5	6H	ITDM63.0G	46	5	2.5	1.5	14	26	4	3.2	6	1	¥ 25,100 □
M3 × 0.35	6H	ITDM63.0D	46	6.1	1.8	1.1	14	26	4	3.2	6	1	¥ 34,100 □
M3.5 × 0.6	6H	ITDM63.5H	52	6.2	3	1.8	16	29	5	4	7	1	¥ 23,800 □
M3.5 × 0.35	6H	ITDM63.5D	52	8.1	1.8	1.1	16	29	5	4	7	1	¥ 33,500 □
M4 × 0.7	6H	ITDM64.0I	52	5.4	3.5	2.1	17	29	5	4	7	1	¥ 23,800 □
M4 × 0.5	6H	ITDM64.0G	52	7	2.5	1.5	17	29	5	4	7	1	¥ 29,100 □
M4.5 × 0.75	6H	ITDM64.5J	60	6.9	3.8	2.3	21	33	5.5	4.5	7	1	¥ 23,600 □
M4.5 × 0.5	6H	ITDM64.5G	60	9	2.5	1.5	21	33	5.5	4.5	7	1	¥ 29,200 □
M5 × 0.8	6H	ITDM65.0K	60	6.6	4	2.4	22	33	5.5	4.5	7	1	¥ 23,600 □
M5 × 0.5	6H	ITDM65.0G	60	9	2.5	1.5	22	33	5.5	4.5	7	1	¥ 29,200 □
M5.5 × 0.5	6H	ITDM65.5G	62	11	2.5	1.5	26	33	6	4.5	7	1	¥ 29,600 □
M6 × 1	6H	ITDM66.0M	62	7	5	3	26	33	6	4.5	7	1	¥ 23,100 □
M6 × 0.75	6H	ITDM66.0J	62	8.9	3.8	2.3	26	33	6	4.5	7	1	¥ 25,400 □
M7 × 1	6H	ITDM67.0M	70	11.9	5	3	34	36	6.2	5	8	2	¥ 25,000 □
M7 × 0.75	6H	ITDM67.0J	70	13.8	3.8	2.3	34	36	6.2	5	8	2	¥ 26,300 □
M8 × 1.25	6H	ITDM68.0N	70	8.9	6.3	3.8	34	36	6.2	5	8	2	¥ 23,600 □
M8 × 1	6H	ITDM68.0M	70	11	5	3	34	36	6.2	5	8	2	¥ 23,600 □
M8 × 0.75	6H	ITDM68.0J	70	12.9	3.8	2.3	34	36	6.2	5	8	2	¥ 27,500 □
M9 × 1.25	6H	ITDM69.0N	75	13.8	6.3	3.8	37	38	7	5.5	8	2	¥ 32,100 □
M9 × 1	6H	ITDM69.0M	75	15.9	5	3	37	38	7	5.5	8	2	¥ 32,100 □
M9 × 0.75	6H	ITDM69.0J	75	17.8	3.8	2.3	37	38	7	5.5	8	2	¥ 32,100 □
M10 × 1.5	6H	ITDM6010O	75	11	7.5	4.5	37	38	7	5.5	8	2	¥ 23,800 □
M10 × 1.25	6H	ITDM6010N	75	12.9	6.3	3.8	37	38	7	5.5	8	2	¥ 23,800 □
M10 × 1	6H	ITDM6010M	75	15	5	3	37	38	7	5.5	8	2	¥ 23,800 □
M10 × 0.75	6H	ITDM6010J	75	16.9	3.8	2.3	37	38	7	5.5	8	2	¥ 30,500 □
M11 × 1.5	6H	ITDM6011O	82	14.9	7.5	4.5	40	42	8.5	6.5	9	2	¥ 24,500 □
M11 × 1	6H	ITDM6011M	82	18.9	5	3	40	42	8.5	6.5	9	2	¥ 31,800 □
M11 × 0.75	6H	ITDM6011J	82	20.8	3.8	2.3	40	42	8.5	6.5	9	2	¥ 31,800 □
M12 × 1.75	6H	ITDM6012P	82	11.9	8.8	5.3	40	42	8.5	6.5	9	2	¥ 24,500 □
M12 × 1.5	6H	ITDM6012O	82	14	7.5	4.5	40	42	8.5	6.5	9	2	¥ 24,500 □
M12 × 1.25	6H	ITDM6012N	82	15.9	6.3	3.8	40	42	8.5	6.5	9	2	¥ 24,500 □

□=In stock at manufacturer.

7 Special Thread Taps / Simple Inspection Tools

Overall length	GO part	NOT-GO part	Recess length	Thread + Neck length	Shank length	Shank dia.	Size of square	Length of square
L	ℓ_1	ℓ_2	ℓ_3	ℓ_n	ℓ_s	Ds	K	ℓ_k

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SITD Simple Thread Inspection Tools, Tandem Type

Size	Class	Code	L (mm)	ℓ_1 (mm)	ℓ_2 (mm)	ℓ_3 (mm)	ℓ_n (mm)	ℓ_s (mm)	Ds (mm)	K (mm)	ℓ_k (mm)	TYPE	MSRP
M12 × 1	6H	ITDM6012M	82	18	5	3	40	42	8.5	6.5	9	2	¥ 25,800 □
M14 × 2	6H	ITDM6014Q	88	10	10	6	43	45	10.5	8	11	2	¥ 25,800 □
M14 × 1.5	6H	ITDM6014O	88	14	7.5	4.5	43	45	10.5	8	11	2	¥ 25,800 □
M14 × 1.25	6H	ITDM6014N	88	15.9	6.3	3.8	43	45	10.5	8	11	2	¥ 29,100 □
M14 × 1	6H	ITDM6014M	88	18	5	3	43	45	10.5	8	11	2	¥ 29,100 □
M15 × 1.5	6H	ITDM6015O	95	14.9	7.5	4.5	47	48	12.5	10	13	2	¥ 28,600 □
M15 × 1	6H	ITDM6015M	95	18.9	5	3	47	48	12.5	10	13	2	¥ 28,600 □
M16 × 2	6H	ITDM6016Q	95	10	10	6	47	48	12.5	10	13	2	¥ 29,000 □
M16 × 1.5	6H	ITDM6016O	95	14	7.5	4.5	47	48	12.5	10	13	2	¥ 29,000 □
M16 × 1	6H	ITDM6016M	95	18	5	3	47	48	12.5	10	13	2	¥ 30,800 □
M17 × 1.5	6H	ITDM6017O	100	21.9	7.5	4.5	49	51	14	11	14	2	¥ 30,800 □
M17 × 1	6H	ITDM6017M	100	25.9	5	3	49	51	14	11	14	2	¥ 30,800 □
M18 × 2.5	6H	ITDM6018R	100	13	12.5	7.5	49	51	14	11	14	2	¥ 29,800 □
M18 × 2	6H	ITDM6018Q	100	17	10	6	49	51	14	11	14	2	¥ 29,800 □
M18 × 1.5	6H	ITDM6018O	100	21	7.5	4.5	49	51	14	11	14	2	¥ 29,800 □
M18 × 1	6H	ITDM6018M	100	25	5	3	49	51	14	11	14	2	¥ 31,100 □
For Unified Threads													
No.2-56UNC	2B	ITDM2UN2E	42	4.4	2.3	1.4	12	26	3	2.5	5	1	¥ 30,500 □
No.2-64UNF	2B	ITDM2UN2D	42	4.9	2	1.2	12	26	3	2.5	5	1	¥ 30,500 □
No.3-48UNC	2B	ITDM2UN3F	46	3.9	2.6	1.6	14	28	3	2.5	5	1	¥ 30,500 □
No.3-56UNF	2B	ITDM2UN3E	46	4.4	2.3	1.4	14	28	3	2.5	5	1	¥ 30,500 □
No.4-40UNC	2B	ITDM2UN4H	46	3.9	3.2	1.9	14	25	4	3.2	6	1	¥ 29,100 □
No.4-48UNF	2B	ITDM2UN4F	46	4.8	2.6	1.6	14	25	4	3.2	6	1	¥ 29,100 □
No.5-40UNC	2B	ITDM2UN5H	52	5.9	3.2	1.9	16	28	5	4	7	1	¥ 29,100 □
No.5-44UNF	2B	ITDM2UN5G	52	6.4	2.9	1.7	16	28	5	4	7	1	¥ 29,100 □
No.6-32UNC	2B	ITDM2UN6J	52	4.6	4	2.4	17	27	5	4	7	1	¥ 27,900 □
No.6-40UNF	2B	ITDM2UN6H	52	5.9	3.2	1.9	17	27	5	4	7	1	¥ 27,900 □
No.8-32UNC	2B	ITDM2UN8J	60	6.6	4	2.4	22	31	5.5	4.5	7	1	¥ 28,400 □
No.8-36UNF	2B	ITDM2UN8I	60	7.4	3.5	2.1	22	31	5.5	4.5	7	1	¥ 28,400 □
No.10-24UNC	2B	ITDM2UNAM	62	7.5	5.3	3.2	26	32	6	4.5	7	1	¥ 26,400 □
No.10-32UNF	2B	ITDM2UNAJ	62	9.6	4	2.4	26	32	6	4.5	7	1	¥ 26,400 □
No.12-24UNC	2B	ITDM2UNCM	62	6.5	5.3	3.2	26	32	6	4.5	7	1	¥ 26,400 □
No.12-28UNF	2B	ITDM2UNCK	62	7.8	4.5	2.7	26	32	6	4.5	7	1	¥ 26,400 □
1/4-20UNC	2B	ITDM2U04N	70	10.2	6.4	3.8	34	36	6.2	5	8	2	¥ 26,900 □
1/4-28UNF	2B	ITDM2U04K	70	13.2	4.5	2.7	34	36	6.2	5	8	2	¥ 26,900 □
5/16-18UNC	2B	ITDM2U05O	70	7.7	7.1	4.2	34	36	6.2	5	8	2	¥ 28,600 □
5/16-24UNF	2B	ITDM2U05M	70	10.5	5.3	3.2	34	36	6.2	5	8	2	¥ 28,600 □
3/8-16UNC	2B	ITDM2U06P	75	10.7	7.9	4.8	37	38	7	5.5	8	2	¥ 28,600 □
3/8-24UNF	2B	ITDM2U06M	75	14.9	5.3	3.2	37	38	7	5.5	8	2	¥ 28,600 □
7/16-14UNC	2B	ITDM2U07Q	82	12.3	9.1	5.4	40	42	8.5	6.5	9	2	¥ 29,100 □
7/16-20UNF	2B	ITDM2U07N	82	16.6	6.4	3.8	40	42	8.5	6.5	9	2	¥ 29,100 □
1/2-13UNC	2B	ITDM2U08R	88	11.4	9.8	5.9	43	45	10.5	8	11	2	¥ 29,100 □
1/2-20UNF	2B	ITDM2U08N	88	16.9	6.4	3.8	43	45	10.5	8	11	2	¥ 29,100 □
9/16-12UNC	2B	ITDM2U09S	95	10.5	10.6	6.4	47	48	12.5	10	13	2	¥ 32,400 □
9/16-18UNF	2B	ITDM2U09O	95	16.2	7.1	4.2	47	48	12.5	10	13	2	¥ 32,400 □
5/8-11UNC	2B	ITDM2U10U	100	16.4	11.5	6.9	49	51	14	11	14	2	¥ 32,400 □
5/8-18UNF	2B	ITDM2U10O	100	23.5	7.1	4.2	49	51	14	11	14	2	¥ 32,400 □

JIS

M E M O

Spiral Fluted Taps
(for blind hole) ①Spiral Fluted Taps
(for through hole) ②Spiral Pointed Taps
(for through hole) ③

Hand Taps ④

Cemented
Carbide Taps ⑤

Roll Taps ⑥

Special Thread Taps
Simple Inspection Tools ⑦

Pipe Taps ⑧

Thread Mills
Premium Thread Mills ⑨

Dies ⑩

Center Drills
Centering Tools ⑪Precision Machinery/
Medical Surgical Instruments ⑫

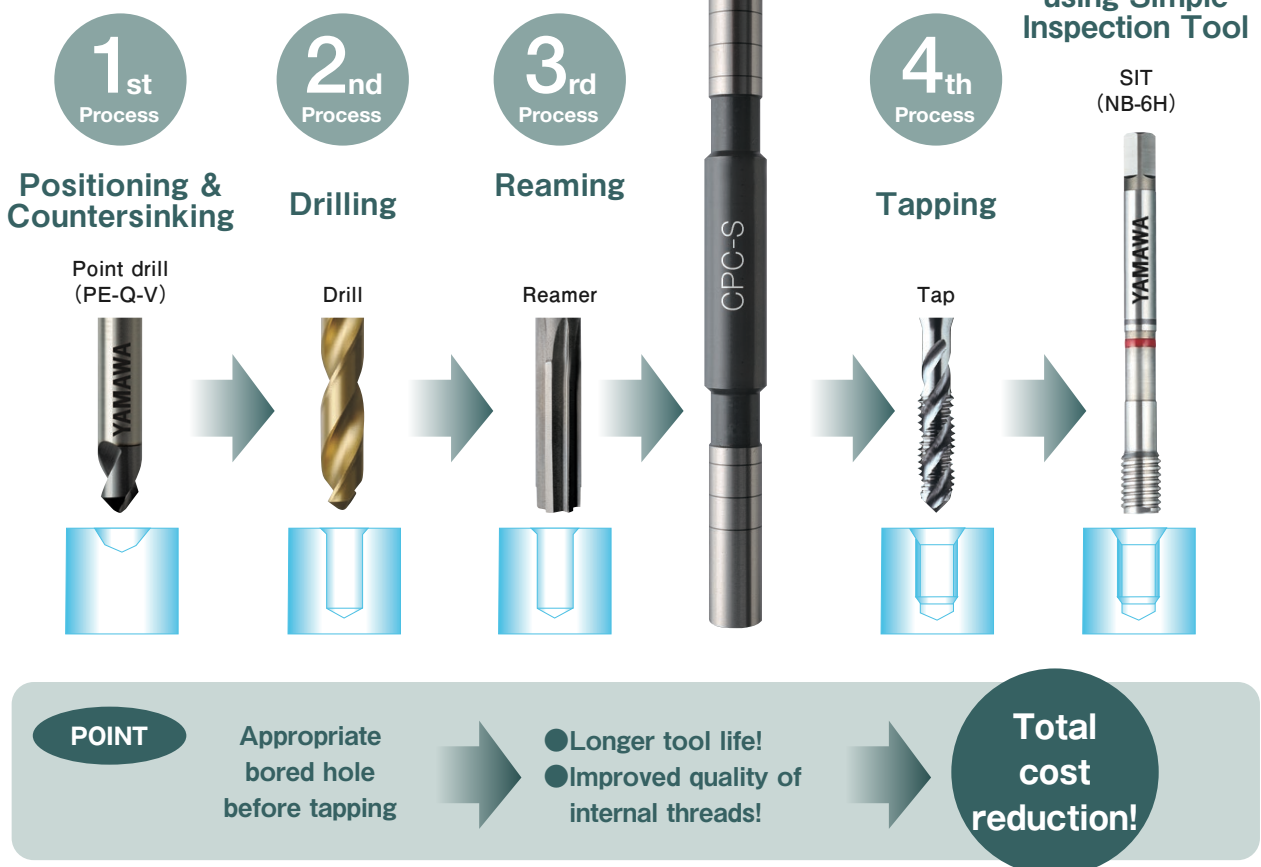
Overall length	Pin length	Bored hole dia. (GO)	Bored hole dia. (NOT-GO)	Bored hole depth (1.5D)	Bored hole depth (2D)	Bored hole depth (2.5D)	Shank dia.
L	ℓ	d ₁	d ₂	ℓ ₁	ℓ ₂	ℓ ₃	Ds

JIS

CHECK PINS

Usage example of Check Pins

You can check both hole size and hole condition at the same time by this Check-pin!



It is important to check the hole condition before tapping!

Hole condition can be inappropriate before tapping.

Set efficient hole size and bore holes correctly, and you can get the longer tool life and keep away from any tapping troubles. Let's check the hole before tapping.



CHECK PINS

Access to the
introduction
by Manga.



Check Pin
(Video
introduction)



Please check the hole size before tapping!

Let's check the hole size before tapping 6H class internal threads of M6×1 by using Check-pin for cutting taps.

How to use CPC-S (Straight type)

STEP
1

Check the minor dia. for M6×1 6H internal thread Min. 4.917 Max. 5.153

STEP
2

Size of the Check-pin for M6×1

Size	L	ℓ	DS	d1 (Percentage of Thread Engagement)	d2 (Percentage of Thread Engagement)
M6 × 1	73	16.5	6	4.917 (100%)	5.026 (90%)
				4.972 (95%)	5.080 (85%)
				5.026 (90%)	5.134 (80%)
				5.080 (85%)	5.188 (75%)
				5.134 (80%)	5.242 (70%)

Select the nearest sizes of the Check-pins to the max and min size of minor dia of 6H internal thread by checking the table listed on the left side.

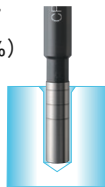
⇒ ① 4.917 (100%) and ② 5.134 (80%)

Depending on the feature of work-piece materials, it is beneficial to tapping to make the hole size before tapping as large as possible and within the tolerance.

STEP
3

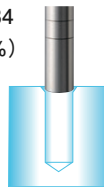
Insert the Check-pins ① and ②, selected in step 2.

① 4.917
(100%)



Check-pin smoothly goes
into the bottom of the hole.

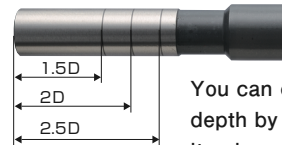
② 5.134
(80%)



Check-pin doesn't
go into the hole.

GOOD

The hole is finished within minor
dia of 6H class internal threads.



You can easily check hole
depth by the three lines on
its pin as well.

How to use CPC-T (Taper type)

Size	L	ℓ	DS	d1 (Percentage of Thread Engagement)	d2 (Percentage of Thread Engagement)	Product Code	(ℓ 1)	(ℓ 2)
M6 × 1	61.5	17	6	4.917 (100%)	5.153 (78%)	CPCT6.0M	3.8	12.8

BAD



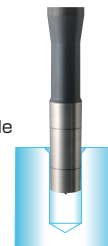
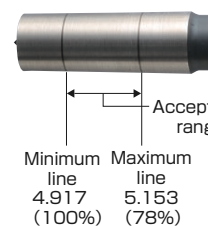
Bad hole : Check-pin
doesn't go into the hole
over the minimum line.

BAD



Bad hole : Check-pin
goes into the hole over
the maximum line.

GOOD



Spiral Fluted Taps
(for blind hole) ①

Spiral Fluted Taps
(for through hole) ②

Spiral Pointed Taps
(for through hole) ③

Hand Taps ④

Cemented
Carbide Taps ⑤

Roll Taps ⑥

Special Thread Taps
Simple Inspection Tools ⑦

Pipe Taps ⑧

Thread Mills
Premium Thread Mills ⑨

Dies ⑩

Center Drills
Centering Tools ⑪

Precision Machinery/
Medical Surgical Instruments ⑫

JIS

⑦-62

7 Special Thread Taps / Simple Inspection Tools

JIS

- ① Spiral Fluted Taps (for blind hole)
- ② Spiral Fluted Taps (for through hole)
- ③ Spiral Pointed Taps (for through hole)
- ④ Hand Taps

⑤ Cemented Carbide Taps

⑥ Roll Taps

⑦ Special Thread Taps Simple Inspection Tools

⑧ Pipe Taps

⑨ Thread Mills Premium Thread Mills

⑩ Dies

⑪ Center Drills Centering Tools

⑫ Precision Machinery/ Medical Surgical Instruments

JIS



CPC-S

Check Pins for Bored Hole in Thread Cut Tapping (Straight Type)

Specification

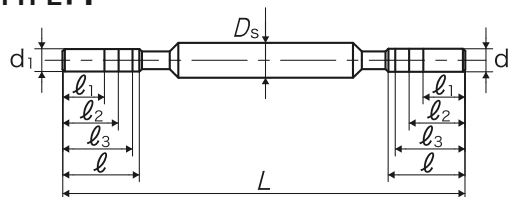
HSS



■ CPC-S consisting of 5 piece pins enables checking of several kinds of bored hole dia. and checking of depth of bored hole (for cutting taps, straight type). CPC-S is made from wear resistant HSS material and is applicable for both through hole and blind hole.

■ There are two types of five-pin set depending on the percentage of thread engagement: one set containing pins of 75% to 65% thread engagements and another containing pins of 100% to 90% thread engagements.

TYPE: 1



Segment : 7C

Size	Code	L (mm)	ℓ (mm)	d ₁ (Thread engagement ratio)	d ₂ (Thread engagement ratio)	ℓ ₁ (mm)	ℓ ₂ (mm)	ℓ ₃ (mm)	D _s (mm)	TYPE	MSRP
For Metric Threads											
M2 × 0.4	CPCS2.0EA	41.5	5.5	1.567 (100%)	1.610 (90%)	3	4	5	3	1	¥ 2,800 □
M2 × 0.4	CPCS2.0EB	41.5	5.5	1.589 (95%)	1.632 (85%)	3	4	5	3	1	¥ 2,800 □
M2 × 0.4	CPCS2.0EC	41.5	5.5	1.610 (90%)	1.654 (80%)	3	4	5	3	1	¥ 2,800 □
M2 × 0.4	CPCS2.0ED	41.5	5.5	1.632 (85%)	1.675 (75%)	3	4	5	3	1	¥ 2,800 □
M2 × 0.4	CPCS2.0EE	41.5	5.5	1.654 (80%)	1.697 (70%)	3	4	5	3	1	¥ 2,800 □
M2 × 0.4	CPCS2.0EF	41.5	5.5	1.675 (75%)	1.719 (65%)	3	4	5	3	1	¥ 2,800 □
M2 × 0.4	CPCS2.0EM	5 piece set consists of CPCS2.0EB ~ CPCS2.0EF (95% ~ 65%)									¥ 14,000 □
M2 × 0.4	CPCS2.0ES	5 piece set consists of CPCS2.0EA ~ CPCS2.0EE (100% ~ 70%)									¥ 14,000 □
M2.5 × 0.45	CPCS2.5FA	45	7.5	2.013 (100%)	2.062 (90%)	3.75	5	6.25	3	1	¥ 3,000 □
M2.5 × 0.45	CPCS2.5FB	45	7.5	2.037 (95%)	2.086 (85%)	3.75	5	6.25	3	1	¥ 3,000 □
M2.5 × 0.45	CPCS2.5FC	45	7.5	2.062 (90%)	2.110 (80%)	3.75	5	6.25	3	1	¥ 3,000 □
M2.5 × 0.45	CPCS2.5FD	45	7.5	2.086 (85%)	2.135 (75%)	3.75	5	6.25	3	1	¥ 3,000 □
M2.5 × 0.45	CPCS2.5FE	45	7.5	2.110 (80%)	2.159 (70%)	3.75	5	6.25	3	1	¥ 3,000 □
M2.5 × 0.45	CPCS2.5FF	45	7.5	2.135 (75%)	2.183 (65%)	3.75	5	6.25	3	1	¥ 3,000 □
M2.5 × 0.45	CPCS2.5FM	5 piece set consists of CPCS2.5FB ~ CPCS2.5FF (95% ~ 65%)									¥ 15,000 □
M2.5 × 0.45	CPCS2.5FS	5 piece set consists of CPCS2.5FA ~ CPCS2.5FE (100% ~ 70%)									¥ 15,000 □
M2.5 × 0.35	CPCS2.5DA	45	7.5	2.121 (100%)	2.159 (90%)	3.75	5	6.25	3	1	¥ 3,480 □
M2.5 × 0.35	CPCS2.5DB	45	7.5	2.140 (95%)	2.178 (85%)	3.75	5	6.25	3	1	¥ 3,480 □
M2.5 × 0.35	CPCS2.5DC	45	7.5	2.159 (90%)	2.197 (80%)	3.75	5	6.25	3	1	¥ 3,480 □
M2.5 × 0.35	CPCS2.5DD	45	7.5	2.178 (85%)	2.216 (75%)	3.75	5	6.25	3	1	¥ 3,480 □
M2.5 × 0.35	CPCS2.5DE	45	7.5	2.197 (80%)	2.235 (70%)	3.75	5	6.25	3	1	¥ 3,480 □
M2.5 × 0.35	CPCS2.5DF	45	7.5	2.216 (75%)	2.254 (65%)	3.75	5	6.25	3	1	¥ 3,480 □
M2.5 × 0.35	CPCS2.5DM	5 piece set consists of CPCS2.5DB ~ CPCS2.5DF (95% ~ 65%)									¥ 17,400 □
M2.5 × 0.35	CPCS2.5DS	5 piece set consists of CPCS2.5DA ~ CPCS2.5DE (100% ~ 70%)									¥ 17,400 □
M3 × 0.5	CPCS3.0GA	49	9	2.459 (100%)	2.513 (90%)	4.5	6	7.5	4	1	¥ 3,120 □

Think threads with
YAMAWA

□=In stock at manufacturer.

Overall length	Pin length	Bored hole dia. (G0)	Bored hole dia. (NOT-G0)	Bored hole depth (1.5D)	Bored hole depth (2D)	Bored hole depth (2.5D)	Shank dia.
L	ℓ	d ₁	d ₂	ℓ ₁	ℓ ₂	ℓ ₃	Ds

7

JIS

Size	Code	L (mm)	ℓ (mm)	d ₁ (Thread engagement ratio)	d ₂ (Thread engagement ratio)	ℓ ₁ (mm)	ℓ ₂ (mm)	ℓ ₃ (mm)	Ds (mm)	TYPE	MSRP
M3 × 0.5	CPCS3.0GB	49	9	2.486 (95%)	2.540 (85%)	4.5	6	7.5	4	1	¥ 3,120 □
M3 × 0.5	CPCS3.0GC	49	9	2.513 (90%)	2.567 (80%)	4.5	6	7.5	4	1	¥ 3,120 □
M3 × 0.5	CPCS3.0GD	49	9	2.540 (85%)	2.594 (75%)	4.5	6	7.5	4	1	¥ 3,120 □
M3 × 0.5	CPCS3.0GE	49	9	2.567 (80%)	2.621 (70%)	4.5	6	7.5	4	1	¥ 3,120 □
M3 × 0.5	CPCS3.0GF	49	9	2.594 (75%)	2.648 (65%)	4.5	6	7.5	4	1	¥ 3,120 □
M3 × 0.5	CPCS3.0GM	5 piece set consists of CPCS3.0GB ~ CPCS3.0GF (95% ~ 65%)									¥ 15,600 □
M3 × 0.5	CPCS3.0GS	5 piece set consists of CPCS3.0GA ~ CPCS3.0GE (100% ~ 70%)									¥ 15,600 □
M3 × 0.35	CPCS3.0DA	49	9	2.621 (100%)	2.659 (90%)	4.5	6	7.5	4	1	¥ 3,600 □
M3 × 0.35	CPCS3.0DB	49	9	2.640 (95%)	2.678 (85%)	4.5	6	7.5	4	1	¥ 3,600 □
M3 × 0.35	CPCS3.0DC	49	9	2.659 (90%)	2.697 (80%)	4.5	6	7.5	4	1	¥ 3,600 □
M3 × 0.35	CPCS3.0DD	49	9	2.678 (85%)	2.716 (75%)	4.5	6	7.5	4	1	¥ 3,600 □
M3 × 0.35	CPCS3.0DE	49	9	2.697 (80%)	2.735 (70%)	4.5	6	7.5	4	1	¥ 3,600 □
M3 × 0.35	CPCS3.0DF	49	9	2.716 (75%)	2.754 (65%)	4.5	6	7.5	4	1	¥ 3,600 □
M3 × 0.35	CPCS3.0DM	5 piece set consists of CPCS3.0DB ~ CPCS3.0DF (95% ~ 65%)									¥ 18,000 □
M3 × 0.35	CPCS3.0DS	5 piece set consists of CPCS3.0DA ~ CPCS3.0DE (100% ~ 70%)									¥ 18,000 □
M3.5 × 0.6	CPCS3.5HA	57	11	2.850 (100%)	2.915 (90%)	5.25	7	8.75	5	1	¥ 3,360 □
M3.5 × 0.6	CPCS3.5HB	57	11	2.883 (95%)	2.948 (85%)	5.25	7	8.75	5	1	¥ 3,360 □
M3.5 × 0.6	CPCS3.5HC	57	11	2.915 (90%)	2.980 (80%)	5.25	7	8.75	5	1	¥ 3,360 □
M3.5 × 0.6	CPCS3.5HD	57	11	2.948 (85%)	3.013 (75%)	5.25	7	8.75	5	1	¥ 3,360 □
M3.5 × 0.6	CPCS3.5HE	57	11	2.980 (80%)	3.045 (70%)	5.25	7	8.75	5	1	¥ 3,360 □
M3.5 × 0.6	CPCS3.5HF	57	11	3.013 (75%)	3.078 (65%)	5.25	7	8.75	5	1	¥ 3,360 □
M3.5 × 0.6	CPCS3.5HM	5 piece set consists of CPCS3.5HB ~ CPCS3.5HF (95% ~ 65%)									¥ 16,800 □
M3.5 × 0.6	CPCS3.5HS	5 piece set consists of CPCS3.5HA ~ CPCS3.5HE (100% ~ 70%)									¥ 16,800 □
M3.5 × 0.35	CPCS3.5DA	57	11	3.121 (100%)	3.159 (90%)	5.25	7	8.75	5	1	¥ 3,840 □
M3.5 × 0.35	CPCS3.5DB	57	11	3.140 (95%)	3.178 (85%)	5.25	7	8.75	5	1	¥ 3,840 □
M3.5 × 0.35	CPCS3.5DC	57	11	3.159 (90%)	3.197 (80%)	5.25	7	8.75	5	1	¥ 3,840 □
M3.5 × 0.35	CPCS3.5DD	57	11	3.178 (85%)	3.216 (75%)	5.25	7	8.75	5	1	¥ 3,840 □
M3.5 × 0.35	CPCS3.5DE	57	11	3.197 (80%)	3.235 (70%)	5.25	7	8.75	5	1	¥ 3,840 □
M3.5 × 0.35	CPCS3.5DF	57	11	3.216 (75%)	3.254 (65%)	5.25	7	8.75	5	1	¥ 3,840 □
M3.5 × 0.35	CPCS3.5DM	5 piece set consists of CPCS3.5DB ~ CPCS3.5DF (95% ~ 65%)									¥ 19,200 □
M3.5 × 0.35	CPCS3.5DS	5 piece set consists of CPCS3.5DA ~ CPCS3.5DE (100% ~ 70%)									¥ 19,200 □
M4 × 0.7	CPCS4.0IA	57	11	3.242 (100%)	3.318 (90%)	6	8	10	5	1	¥ 3,360 □
M4 × 0.7	CPCS4.0IB	57	11	3.280 (95%)	3.356 (85%)	6	8	10	5	1	¥ 3,360 □
M4 × 0.7	CPCS4.0IC	57	11	3.318 (90%)	3.394 (80%)	6	8	10	5	1	¥ 3,360 □
M4 × 0.7	CPCS4.0ID	57	11	3.356 (85%)	3.432 (75%)	6	8	10	5	1	¥ 3,360 □
M4 × 0.7	CPCS4.0IE	57	11	3.394 (80%)	3.470 (70%)	6	8	10	5	1	¥ 3,360 □
M4 × 0.7	CPCS4.0IF	57	11	3.432 (75%)	3.507 (65%)	6	8	10	5	1	¥ 3,360 □
M4 × 0.7	CPCS4.0IM	5 piece set consists of CPCS4.0IB ~ CPCS4.0IF (95% ~ 65%)									¥ 16,800 □
M4 × 0.7	CPCS4.0IS	5 piece set consists of CPCS4.0IA ~ CPCS4.0IE (100% ~ 70%)									¥ 16,800 □
M4 × 0.5	CPCS4.0GA	57	11	3.459 (100%)	3.513 (90%)	6	8	10	5	1	¥ 3,840 □
M4 × 0.5	CPCS4.0GB	57	11	3.486 (95%)	3.540 (85%)	6	8	10	5	1	¥ 3,840 □
M4 × 0.5	CPCS4.0GC	57	11	3.513 (90%)	3.567 (80%)	6	8	10	5	1	¥ 3,840 □
M4 × 0.5	CPCS4.0GD	57	11	3.540 (85%)	3.594 (75%)	6	8	10	5	1	¥ 3,840 □
M4 × 0.5	CPCS4.0GE	57	11	3.567 (80%)	3.621 (70%)	6	8	10	5	1	¥ 3,840 □
M4 × 0.5	CPCS4.0GF	57	11	3.594 (75%)	3.648 (65%)	6	8	10	5	1	¥ 3,840 □
M4 × 0.5	CPCS4.0GM	5 piece set consists of CPCS4.0GB ~ CPCS4.0GF (95% ~ 65%)									¥ 19,200 □
M4 × 0.5	CPCS4.0GS	5 piece set consists of CPCS4.0GA ~ CPCS4.0GE (100% ~ 70%)									¥ 19,200 □
M4.5 × 0.75	CPCS4.5JA	65	14	3.688 (100%)	3.769 (90%)	6.75	9	11.25	5.5	1	¥ 3,960 □
M4.5 × 0.75	CPCS4.5JB	65	14	3.729 (95%)	3.810 (85%)	6.75	9	11.25	5.5	1	¥ 3,960 □
M4.5 × 0.75	CPCS4.5JC	65	14	3.769 (90%)	3.850 (80%)	6.75	9	11.25	5.5	1	¥ 3,960 □

Spiral Fluted Taps
(for blind hole)

①

Spiral Fluted Taps
(for through hole)

②

Spiral Pointed Taps
(for through hole)

③

Hand Taps

④

Cemented
Carbide Taps

⑤

Roll Taps

⑥

Special Thread Taps
Simple Inspection Tools

⑦

Pipe Taps

⑧

Thread Mills
Premium Thread Mills

⑨

Dies

⑩

Center Drills
Centering Tools

⑪

Precision Machinery/
Medical Surgical Instruments

⑫

JIS

⑦-64

□=In stock at manufacturer.

Think threads with
YAMAWA

7 Special Thread Taps / Simple Inspection Tools

Overall length	Pin length	Bored hole dia. (G0)	Bored hole dia. (NOT-G0)	Bored hole depth (1.5D)	Bored hole depth (2D)	Bored hole depth (2.5D)	Shank dia.
L	ℓ	d ₁	d ₂	ℓ ₁	ℓ ₂	ℓ ₃	Ds

JIS

CPC-S Check Pins for Bored Hole in Thread Cut Tapping (Straight Type)

Size	Code	L (mm)	ℓ (mm)	d ₁ (Thread engagement ratio)	d ₂ (Thread engagement ratio)	ℓ ₁ (mm)	ℓ ₂ (mm)	ℓ ₃ (mm)	Ds (mm)	TYPE	MSRP
M4.5 × 0.75	CPCS4.5JD	65	14	3.810 (85%)	3.891 (75%)	6.75	9	11.25	5.5	1	¥ 3,960 □
M4.5 × 0.75	CPCS4.5JE	65	14	3.850 (80%)	3.932 (70%)	6.75	9	11.25	5.5	1	¥ 3,960 □
M4.5 × 0.75	CPCS4.5JF	65	14	3.891 (75%)	3.972 (65%)	6.75	9	11.25	5.5	1	¥ 3,960 □
M4.5 × 0.75	CPCS4.5JM	5 piece set consists of CPCS4.5JB ~ CPCS4.5JF (95% ~ 65%)									¥ 19,800 □
M4.5 × 0.75	CPCS4.5JS	5 piece set consists of CPCS4.5JA ~ CPCS4.5JE (100% ~ 70%)									¥ 19,800 □
M4.5 × 0.5	CPCS4.5GA	65	14	3.959 (100%)	4.013 (90%)	6.75	9	11.25	5.5	1	¥ 3,960 □
M4.5 × 0.5	CPCS4.5GB	65	14	3.986 (95%)	4.040 (85%)	6.75	9	11.25	5.5	1	¥ 3,960 □
M4.5 × 0.5	CPCS4.5GC	65	14	4.013 (90%)	4.067 (80%)	6.75	9	11.25	5.5	1	¥ 3,960 □
M4.5 × 0.5	CPCS4.5GD	65	14	4.040 (85%)	4.094 (75%)	6.75	9	11.25	5.5	1	¥ 3,960 □
M4.5 × 0.5	CPCS4.5GE	65	14	4.067 (80%)	4.121 (70%)	6.75	9	11.25	5.5	1	¥ 3,960 □
M4.5 × 0.5	CPCS4.5GF	65	14	4.094 (75%)	4.148 (65%)	6.75	9	11.25	5.5	1	¥ 3,960 □
M4.5 × 0.5	CPCS4.5GM	5 piece set consists of CPCS4.5GB ~ CPCS4.5GF (95% ~ 65%)									¥ 19,800 □
M4.5 × 0.5	CPCS4.5GS	5 piece set consists of CPCS4.5GA ~ CPCS4.5GE (100% ~ 70%)									¥ 19,800 □
M5 × 0.8	CPCS5.0KA	65	14	4.134 (100%)	4.221 (90%)	7.5	10	12.5	5.5	1	¥ 3,480 □
M5 × 0.8	CPCS5.0KB	65	14	4.177 (95%)	4.264 (85%)	7.5	10	12.5	5.5	1	¥ 3,480 □
M5 × 0.8	CPCS5.0KC	65	14	4.221 (90%)	4.307 (80%)	7.5	10	12.5	5.5	1	¥ 3,480 □
M5 × 0.8	CPCS5.0KD	65	14	4.264 (85%)	4.350 (75%)	7.5	10	12.5	5.5	1	¥ 3,480 □
M5 × 0.8	CPCS5.0KE	65	14	4.307 (80%)	4.394 (70%)	7.5	10	12.5	5.5	1	¥ 3,480 □
M5 × 0.8	CPCS5.0KF	65	14	4.350 (75%)	4.437 (65%)	7.5	10	12.5	5.5	1	¥ 3,480 □
M5 × 0.8	CPCS5.0KM	5 piece set consists of CPCS5.0KB ~ CPCS5.0KF (95% ~ 65%)									¥ 17,400 □
M5 × 0.8	CPCS5.0KS	5 piece set consists of CPCS5.0KA ~ CPCS5.0KE (100% ~ 70%)									¥ 17,400 □
M5 × 0.5	CPCS5.0GA	65	14	4.459 (100%)	4.513 (90%)	7.5	10	12.5	5.5	1	¥ 4,080 □
M5 × 0.5	CPCS5.0GB	65	14	4.486 (95%)	4.540 (85%)	7.5	10	12.5	5.5	1	¥ 4,080 □
M5 × 0.5	CPCS5.0GC	65	14	4.513 (90%)	4.567 (80%)	7.5	10	12.5	5.5	1	¥ 4,080 □
M5 × 0.5	CPCS5.0GD	65	14	4.540 (85%)	4.594 (75%)	7.5	10	12.5	5.5	1	¥ 4,080 □
M5 × 0.5	CPCS5.0GE	65	14	4.567 (80%)	4.621 (70%)	7.5	10	12.5	5.5	1	¥ 4,080 □
M5 × 0.5	CPCS5.0GF	65	14	4.594 (75%)	4.648 (65%)	7.5	10	12.5	5.5	1	¥ 4,080 □
M5 × 0.5	CPCS5.0GM	5 piece set consists of CPCS5.0GB ~ CPCS5.0GF (95% ~ 65%)									¥ 20,400 □
M5 × 0.5	CPCS5.0GS	5 piece set consists of CPCS5.0GA ~ CPCS5.0GE (100% ~ 70%)									¥ 20,400 □
M6 × 1	CPCS6.0MA	73	16.5	4.917 (100%)	5.026 (90%)	9	12	15	6	1	¥ 3,840 □
M6 × 1	CPCS6.0MB	73	16.5	4.972 (95%)	5.080 (85%)	9	12	15	6	1	¥ 3,840 □
M6 × 1	CPCS6.0MC	73	16.5	5.026 (90%)	5.134 (80%)	9	12	15	6	1	¥ 3,840 □
M6 × 1	CPCS6.0MD	73	16.5	5.080 (85%)	5.188 (75%)	9	12	15	6	1	¥ 3,840 □
M6 × 1	CPCS6.0ME	73	16.5	5.134 (80%)	5.242 (70%)	9	12	15	6	1	¥ 3,840 □
M6 × 1	CPCS6.0MF	73	16.5	5.188 (75%)	5.296 (65%)	9	12	15	6	1	¥ 3,840 □
M6 × 1	CPCS6.0MM	5 piece set consists of CPCS6.0MB ~ CPCS6.0MF (95% ~ 65%)									¥ 19,200 □
M6 × 1	CPCS6.0MS	5 piece set consists of CPCS6.0MA ~ CPCS6.0ME (100% ~ 70%)									¥ 19,200 □
M6 × 0.75	CPCS6.0JA	73	16.5	5.188 (100%)	5.269 (90%)	9	12	15	6	1	¥ 4,440 □
M6 × 0.75	CPCS6.0JB	73	16.5	5.229 (95%)	5.310 (85%)	9	12	15	6	1	¥ 4,440 □
M6 × 0.75	CPCS6.0JC	73	16.5	5.269 (90%)	5.350 (80%)	9	12	15	6	1	¥ 4,440 □
M6 × 0.75	CPCS6.0JD	73	16.5	5.310 (85%)	5.391 (75%)	9	12	15	6	1	¥ 4,440 □
M6 × 0.75	CPCS6.0JE	73	16.5	5.350 (80%)	5.432 (70%)	9	12	15	6	1	¥ 4,440 □
M6 × 0.75	CPCS6.0JF	73	16.5	5.391 (75%)	5.472 (65%)	9	12	15	6	1	¥ 4,440 □
M6 × 0.75	CPCS6.0JM	5 piece set consists of CPCS6.0JB ~ CPCS6.0JF (95% ~ 65%)									¥ 22,200 □
M6 × 0.75	CPCS6.0JS	5 piece set consists of CPCS6.0JA ~ CPCS6.0JE (100% ~ 70%)									¥ 22,200 □
M7 × 1	CPCS7.0MA	99	22	5.917 (100%)	6.026 (90%)	10.5	14	17.5	8	1	¥ 4,080 □
M7 × 1	CPCS7.0MB	99	22	5.972 (95%)	6.080 (85%)	10.5	14	17.5	8	1	¥ 4,080 □
M7 × 1	CPCS7.0MC	99	22	6.026 (90%)	6.134 (80%)	10.5	14	17.5	8	1	¥ 4,080 □
M7 × 1	CPCS7.0MD	99	22	6.080 (85%)	6.188 (75%)	10.5	14	17.5	8	1	¥ 4,080 □
M7 × 1	CPCS7.0ME	99	22	6.134 (80%)	6.242 (70%)	10.5	14	17.5	8	1	¥ 4,080 □

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Overall length	Pin length	Bored hole dia. (G0)	Bored hole dia. (NOT-G0)	Bored hole depth (1.5D)	Bored hole depth (2D)	Bored hole depth (2.5D)	Shank dia.
L	ℓ	d ₁	d ₂	ℓ ₁	ℓ ₂	ℓ ₃	Ds

CPC-S Check Pins for Bored Hole in Thread Cut Tapping (Straight Type)

Size	Code	L (mm)	ℓ (mm)	d ₁ (Thread engagement ratio)	d ₂ (Thread engagement ratio)	ℓ ₁ (mm)	ℓ ₂ (mm)	ℓ ₃ (mm)	Ds (mm)	TYPE	MSRP	
M7 × 1	CPCS7.0MF	99	22	6.188 (75%)	6.296 (65%)	10.5	14	17.5	8	1	¥ 4,080	□
M7 × 1	CPCS7.0MM	5 piece set consists of CPCS7.0MB ~ CPCS7.0MF (95% ~ 65%)									¥ 20,400	□
M7 × 1	CPCS7.0MS	5 piece set consists of CPCS7.0MA ~ CPCS7.0ME (100% ~ 70%)									¥ 20,400	□
M7 × 0.75	CPCS7.0JA	99	22	6.188 (100%)	6.269 (90%)	10.5	14	17.5	8	1	¥ 4,680	□
M7 × 0.75	CPCS7.0JB	99	22	6.229 (95%)	6.310 (85%)	10.5	14	17.5	8	1	¥ 4,680	□
M7 × 0.75	CPCS7.0JC	99	22	6.269 (90%)	6.350 (80%)	10.5	14	17.5	8	1	¥ 4,680	□
M7 × 0.75	CPCS7.0JD	99	22	6.310 (85%)	6.391 (75%)	10.5	14	17.5	8	1	¥ 4,680	□
M7 × 0.75	CPCS7.0JE	99	22	6.350 (80%)	6.432 (70%)	10.5	14	17.5	8	1	¥ 4,680	□
M7 × 0.75	CPCS7.0JF	99	22	6.391 (75%)	6.472 (65%)	10.5	14	17.5	8	1	¥ 4,680	□
M7 × 0.75	CPCS7.0JM	5 piece set consists of CPCS7.0JB ~ CPCS7.0JF (95% ~ 65%)									¥ 23,400	□
M7 × 0.75	CPCS7.0JS	5 piece set consists of CPCS7.0JA ~ CPCS7.0JE (100% ~ 70%)									¥ 23,400	□
M8 × 1.25	CPCS8.0NA	99	22	6.647 (100%)	6.782 (90%)	12	16	20	8	1	¥ 4,080	□
M8 × 1.25	CPCS8.0NB	99	22	6.714 (95%)	6.850 (85%)	12	16	20	8	1	¥ 4,080	□
M8 × 1.25	CPCS8.0NC	99	22	6.782 (90%)	6.917 (80%)	12	16	20	8	1	¥ 4,080	□
M8 × 1.25	CPCS8.0ND	99	22	6.850 (85%)	6.985 (75%)	12	16	20	8	1	¥ 4,080	□
M8 × 1.25	CPCS8.0NE	99	22	6.917 (80%)	7.053 (70%)	12	16	20	8	1	¥ 4,080	□
M8 × 1.25	CPCS8.0NF	99	22	6.985 (75%)	7.120 (65%)	12	16	20	8	1	¥ 4,080	□
M8 × 1.25	CPCS8.0NM	5 piece set consists of CPCS8.0NB ~ CPCS8.0NF (95% ~ 65%)									¥ 20,400	□
M8 × 1.25	CPCS8.0NS	5 piece set consists of CPCS8.0NA ~ CPCS8.0NE (100% ~ 70%)									¥ 20,400	□
M8 × 1	CPCS8.0MA	99	22	6.917 (100%)	7.026 (90%)	12	16	20	8	1	¥ 4,680	□
M8 × 1	CPCS8.0MB	99	22	6.972 (95%)	7.080 (85%)	12	16	20	8	1	¥ 4,680	□
M8 × 1	CPCS8.0MC	99	22	7.026 (90%)	7.134 (80%)	12	16	20	8	1	¥ 4,680	□
M8 × 1	CPCS8.0MD	99	22	7.080 (85%)	7.188 (75%)	12	16	20	8	1	¥ 4,680	□
M8 × 1	CPCS8.0ME	99	22	7.134 (80%)	7.242 (70%)	12	16	20	8	1	¥ 4,680	□
M8 × 1	CPCS8.0MF	99	22	7.188 (75%)	7.296 (65%)	12	16	20	8	1	¥ 4,680	□
M8 × 1	CPCS8.0MM	5 piece set consists of CPCS8.0MB ~ CPCS8.0MF (95% ~ 65%)									¥ 23,400	□
M8 × 1	CPCS8.0MS	5 piece set consists of CPCS8.0MA ~ CPCS8.0ME (100% ~ 70%)									¥ 23,400	□
M8 × 0.75	CPCS8.0JA	99	22	7.188 (100%)	7.269 (90%)	12	16	20	8	1	¥ 4,680	□
M8 × 0.75	CPCS8.0JB	99	22	7.229 (95%)	7.310 (85%)	12	16	20	8	1	¥ 4,680	□
M8 × 0.75	CPCS8.0JC	99	22	7.269 (90%)	7.350 (80%)	12	16	20	8	1	¥ 4,680	□
M8 × 0.75	CPCS8.0JD	99	22	7.310 (85%)	7.391 (75%)	12	16	20	8	1	¥ 4,680	□
M8 × 0.75	CPCS8.0JE	99	22	7.350 (80%)	7.432 (70%)	12	16	20	8	1	¥ 4,680	□
M8 × 0.75	CPCS8.0JF	99	22	7.391 (75%)	7.472 (65%)	12	16	20	8	1	¥ 4,680	□
M8 × 0.75	CPCS8.0JM	5 piece set consists of CPCS8.0JB ~ CPCS8.0JF (95% ~ 65%)									¥ 23,400	□
M8 × 0.75	CPCS8.0JS	5 piece set consists of CPCS8.0JA ~ CPCS8.0JE (100% ~ 70%)									¥ 23,400	□
M9 × 1.25	CPCS9.0NA	110	27.5	7.647 (100%)	7.782 (90%)	13.5	18	22.5	10	1	¥ 4,560	□
M9 × 1.25	CPCS9.0NB	110	27.5	7.714 (95%)	7.850 (85%)	13.5	18	22.5	10	1	¥ 4,560	□
M9 × 1.25	CPCS9.0NC	110	27.5	7.782 (90%)	7.917 (80%)	13.5	18	22.5	10	1	¥ 4,560	□
M9 × 1.25	CPCS9.0ND	110	27.5	7.850 (85%)	7.985 (75%)	13.5	18	22.5	10	1	¥ 4,560	□
M9 × 1.25	CPCS9.0NE	110	27.5	7.917 (80%)	8.053 (70%)	13.5	18	22.5	10	1	¥ 4,560	□
M9 × 1.25	CPCS9.0NF	110	27.5	7.985 (75%)	8.120 (65%)	13.5	18	22.5	10	1	¥ 4,560	□
M9 × 1.25	CPCS9.0NM	5 piece set consists of CPCS9.0NB ~ CPCS9.0NF (95% ~ 65%)									¥ 22,800	□
M9 × 1.25	CPCS9.0NS	5 piece set consists of CPCS9.0NA ~ CPCS9.0NE (100% ~ 70%)									¥ 22,800	□
M9 × 1	CPCS9.0MA	110	27.5	7.917 (100%)	8.026 (90%)	13.5	18	22.5	10	1	¥ 5,040	□
M9 × 1	CPCS9.0MB	110	27.5	7.972 (95%)	8.080 (85%)	13.5	18	22.5	10	1	¥ 5,040	□
M9 × 1	CPCS9.0MC	110	27.5	8.026 (90%)	8.134 (80%)	13.5	18	22.5	10	1	¥ 5,040	□
M9 × 1	CPCS9.0MD	110	27.5	8.080 (85%)	8.188 (75%)	13.5	18	22.5	10	1	¥ 5,040	□
M9 × 1	CPCS9.0ME	110	27.5	8.134 (80%)	8.242 (70%)	13.5	18	22.5	10	1	¥ 5,040	□
M9 × 1	CPCS9.0MF	110	27.5	8.188 (75%)	8.296 (65%)	13.5	18	22.5	10	1	¥ 5,040	□
M9 × 1	CPCS9.0MM	5 piece set consists of CPCS9.0MB ~ CPCS9.0MF (95% ~ 65%)									¥ 25,200	□

□=In stock at manufacturer.

Think threads with
YAMAWA

7

JIS

Spiral Fluted Taps
(for blind hole)

①

Spiral Fluted Taps
(for through hole)

②

Spiral Pointed Taps
(for through hole)

③

Hand Taps

④

Cemented
Carbide Taps

⑤

Roll Taps

⑥

Special Thread Taps
Simple Inspection Tools

⑦

Pipe Taps

⑧

Thread Mills
Premium Thread Mills

⑨

Dies

⑩

Center Drills
Centering Tools

⑪

Precision Machinery/
Medical Surgical Instruments

⑫

JIS

⑦-66

7 Special Thread Taps / Simple Inspection Tools

Overall length	Pin length	Bored hole dia. (G0)	Bored hole dia. (NOT-G0)	Bored hole depth (1.5D)	Bored hole depth (2D)	Bored hole depth (2.5D)	Shank dia.
L	ℓ	d ₁	d ₂	ℓ ₁	ℓ ₂	ℓ ₃	Ds

JIS

CPC-S Check Pins for Bored Hole in Thread Cut Tapping (Straight Type)

Size	Code	L (mm)	ℓ (mm)	d ₁ (Thread engagement ratio)	d ₂ (Thread engagement ratio)	ℓ ₁ (mm)	ℓ ₂ (mm)	ℓ ₃ (mm)	Ds (mm)	TYPE	MSRP
M9 × 1	CPCS9.0MS	5 piece set consists of CPCS9.0MA ~ CPCS9.0ME (100% ~ 70%)									¥ 25,200 ☐
M9 × 0.75	CPCS9.0JA	110	27.5	8.188 (100%)	8.269 (90%)	13.5	18	22.5	10	1	¥ 5,040 ☐
M9 × 0.75	CPCS9.0JB	110	27.5	8.229 (95%)	8.310 (85%)	13.5	18	22.5	10	1	¥ 5,040 ☐
M9 × 0.75	CPCS9.0JC	110	27.5	8.269 (90%)	8.350 (80%)	13.5	18	22.5	10	1	¥ 5,040 ☐
M9 × 0.75	CPCS9.0JD	110	27.5	8.310 (85%)	8.391 (75%)	13.5	18	22.5	10	1	¥ 5,040 ☐
M9 × 0.75	CPCS9.0JE	110	27.5	8.350 (80%)	8.432 (70%)	13.5	18	22.5	10	1	¥ 5,040 ☐
M9 × 0.75	CPCS9.0JF	110	27.5	8.391 (75%)	8.472 (65%)	13.5	18	22.5	10	1	¥ 5,040 ☐
M9 × 0.75	CPCS9.0JM	5 piece set consists of CPCS9.0JB ~ CPCS9.0JF (95% ~ 65%)									¥ 25,200 ☐
M9 × 0.75	CPCS9.0JS	5 piece set consists of CPCS9.0JA ~ CPCS9.0JE (100% ~ 70%)									¥ 25,200 ☐
M10 × 1.5	CPCS010OA	110	27.5	8.376 (100%)	8.538 (90%)	15	20	25	10	1	¥ 4,200 ☐
M10 × 1.5	CPCS010OB	110	27.5	8.457 (95%)	8.620 (85%)	15	20	25	10	1	¥ 4,200 ☐
M10 × 1.5	CPCS010OC	110	27.5	8.538 (90%)	8.701 (80%)	15	20	25	10	1	¥ 4,200 ☐
M10 × 1.5	CPCS010OD	110	27.5	8.620 (85%)	8.782 (75%)	15	20	25	10	1	¥ 4,200 ☐
M10 × 1.5	CPCS010OE	110	27.5	8.701 (80%)	8.863 (70%)	15	20	25	10	1	¥ 4,200 ☐
M10 × 1.5	CPCS010OF	110	27.5	8.782 (75%)	8.944 (65%)	15	20	25	10	1	¥ 4,200 ☐
M10 × 1.5	CPCS010OM	5 piece set consists of CPCS010OB ~ CPCS010OF (95% ~ 65%)									¥ 21,000 ☐
M10 × 1.5	CPCS010OS	5 piece set consists of CPCS010OA ~ CPCS010OE (100% ~ 70%)									¥ 21,000 ☐
M10 × 1.25	CPCS010NA	110	27.5	8.647 (100%)	8.782 (90%)	15	20	25	10	1	¥ 4,920 ☐
M10 × 1.25	CPCS010NB	110	27.5	8.714 (95%)	8.850 (85%)	15	20	25	10	1	¥ 4,920 ☐
M10 × 1.25	CPCS010NC	110	27.5	8.782 (90%)	8.917 (80%)	15	20	25	10	1	¥ 4,920 ☐
M10 × 1.25	CPCS010ND	110	27.5	8.850 (85%)	8.985 (75%)	15	20	25	10	1	¥ 4,920 ☐
M10 × 1.25	CPCS010NE	110	27.5	8.917 (80%)	9.053 (70%)	15	20	25	10	1	¥ 4,920 ☐
M10 × 1.25	CPCS010NF	110	27.5	8.985 (75%)	9.120 (65%)	15	20	25	10	1	¥ 4,920 ☐
M10 × 1.25	CPCS010NM	5 piece set consists of CPCS010NB ~ CPCS010NF (95% ~ 65%)									¥ 24,600 ☐
M10 × 1.25	CPCS010NS	5 piece set consists of CPCS010NA ~ CPCS010NE (100% ~ 70%)									¥ 24,600 ☐
M10 × 1	CPCS010MA	110	27.5	8.917 (100%)	9.026 (90%)	15	20	25	10	1	¥ 4,920 ☐
M10 × 1	CPCS010MB	110	27.5	8.972 (95%)	9.080 (85%)	15	20	25	10	1	¥ 4,920 ☐
M10 × 1	CPCS010MC	110	27.5	9.026 (90%)	9.134 (80%)	15	20	25	10	1	¥ 4,920 ☐
M10 × 1	CPCS010MD	110	27.5	9.080 (85%)	9.188 (75%)	15	20	25	10	1	¥ 4,920 ☐
M10 × 1	CPCS010ME	110	27.5	9.134 (80%)	9.242 (70%)	15	20	25	10	1	¥ 4,920 ☐
M10 × 1	CPCS010MF	110	27.5	9.188 (75%)	9.296 (65%)	15	20	25	10	1	¥ 4,920 ☐
M10 × 1	CPCS010MM	5 piece set consists of CPCS010MB ~ CPCS010MF (95% ~ 65%)									¥ 24,600 ☐
M10 × 1	CPCS010MS	5 piece set consists of CPCS010MA ~ CPCS010ME (100% ~ 70%)									¥ 24,600 ☐
M10 × 0.75	CPCS010JA	110	27.5	9.188 (100%)	9.269 (90%)	15	20	25	10	1	¥ 4,920 ☐
M10 × 0.75	CPCS010JB	110	27.5	9.229 (95%)	9.310 (85%)	15	20	25	10	1	¥ 4,920 ☐
M10 × 0.75	CPCS010JC	110	27.5	9.269 (90%)	9.350 (80%)	15	20	25	10	1	¥ 4,920 ☐
M10 × 0.75	CPCS010JD	110	27.5	9.310 (85%)	9.391 (75%)	15	20	25	10	1	¥ 4,920 ☐
M10 × 0.75	CPCS010JE	110	27.5	9.350 (80%)	9.432 (70%)	15	20	25	10	1	¥ 4,920 ☐
M10 × 0.75	CPCS010JF	110	27.5	9.391 (75%)	9.472 (65%)	15	20	25	10	1	¥ 4,920 ☐
M10 × 0.75	CPCS010JM	5 piece set consists of CPCS010JB ~ CPCS010JF (95% ~ 65%)									¥ 24,600 ☐
M10 × 0.75	CPCS010JS	5 piece set consists of CPCS010JA ~ CPCS010JE (100% ~ 70%)									¥ 24,600 ☐
M11 × 1.5	CPCS011OA	121	33	9.376 (100%)	9.538 (90%)	16.5	22	27.5	12	1	¥ 4,680 ☐
M11 × 1.5	CPCS011OB	121	33	9.457 (95%)	9.620 (85%)	16.5	22	27.5	12	1	¥ 4,680 ☐
M11 × 1.5	CPCS011OC	121	33	9.538 (90%)	9.701 (80%)	16.5	22	27.5	12	1	¥ 4,680 ☐
M11 × 1.5	CPCS011OD	121	33	9.620 (85%)	9.782 (75%)	16.5	22	27.5	12	1	¥ 4,680 ☐
M11 × 1.5	CPCS011OE	121	33	9.701 (80%)	9.863 (70%)	16.5	22	27.5	12	1	¥ 4,680 ☐
M11 × 1.5	CPCS011OF	121	33	9.782 (75%)	9.944 (65%)	16.5	22	27.5	12	1	¥ 4,680 ☐
M11 × 1.5	CPCS011OM	5 piece set consists of CPCS011OB ~ CPCS011OF (95% ~ 65%)									¥ 23,400 ☐
M11 × 1.5	CPCS011OS	5 piece set consists of CPCS011OA ~ CPCS011OE (100% ~ 70%)									¥ 23,400 ☐
M11 × 1	CPCS011MA	121	33	9.917 (100%)	10.026 (90%)	16.5	22	27.5	12	1	¥ 5,400 ☐

JIS

Overall length	Pin length	Bored hole dia. (G0)	Bored hole dia. (NOT-G0)	Bored hole depth (1.5D)	Bored hole depth (2D)	Bored hole depth (2.5D)	Shank dia.
L	ℓ	d ₁	d ₂	ℓ ₁	ℓ ₂	ℓ ₃	Ds

CPC-S Check Pins for Bored Hole in Thread Cut Tapping (Straight Type)

Size	Code	L (mm)	ℓ (mm)	d ₁ (Thread engagement ratio)	d ₂ (Thread engagement ratio)	ℓ ₁ (mm)	ℓ ₂ (mm)	ℓ ₃ (mm)	Ds (mm)	TYPE	MSRP
M11 × 1	CPCS011MB	121	33	9.972 (95%)	10.080 (85%)	16.5	22	27.5	12	1	¥ 5,400
M11 × 1	CPCS011MC	121	33	10.026 (90%)	10.134 (80%)	16.5	22	27.5	12	1	¥ 5,400
M11 × 1	CPCS011MD	121	33	10.080 (85%)	10.188 (75%)	16.5	22	27.5	12	1	¥ 5,400
M11 × 1	CPCS011ME	121	33	10.134 (80%)	10.242 (70%)	16.5	22	27.5	12	1	¥ 5,400
M11 × 1	CPCS011MF	121	33	10.188 (75%)	10.296 (65%)	16.5	22	27.5	12	1	¥ 5,400
M11 × 1	CPCS011MM	5 piece set consists of CPCS011MB ~ CPCS011MF (95% ~ 65%)									¥ 27,000
M11 × 1	CPCS011MS	5 piece set consists of CPCS011MA ~ CPCS011ME (100% ~ 70%)									¥ 27,000
M11 × 0.75	CPCS011JA	121	33	10.188 (100%)	10.269 (90%)	16.5	22	27.5	12	1	¥ 5,400
M11 × 0.75	CPCS011JB	121	33	10.229 (95%)	10.310 (85%)	16.5	22	27.5	12	1	¥ 5,400
M11 × 0.75	CPCS011JC	121	33	10.269 (90%)	10.350 (80%)	16.5	22	27.5	12	1	¥ 5,400
M11 × 0.75	CPCS011JD	121	33	10.310 (85%)	10.391 (75%)	16.5	22	27.5	12	1	¥ 5,400
M11 × 0.75	CPCS011JE	121	33	10.350 (80%)	10.432 (70%)	16.5	22	27.5	12	1	¥ 5,400
M11 × 0.75	CPCS011JF	121	33	10.391 (75%)	10.472 (65%)	16.5	22	27.5	12	1	¥ 5,400
M11 × 0.75	CPCS011JM	5 piece set consists of CPCS011JB ~ CPCS011JF (95% ~ 65%)									¥ 27,000
M11 × 0.75	CPCS011JS	5 piece set consists of CPCS011JA ~ CPCS011JE (100% ~ 70%)									¥ 27,000
M12 × 1.75	CPCS012PA	121	33	10.105 (100%)	10.295 (90%)	18	24	30	12	1	¥ 4,440
M12 × 1.75	CPCS012PB	121	33	10.200 (95%)	10.390 (85%)	18	24	30	12	1	¥ 4,440
M12 × 1.75	CPCS012PC	121	33	10.295 (90%)	10.484 (80%)	18	24	30	12	1	¥ 4,440
M12 × 1.75	CPCS012PD	121	33	10.390 (85%)	10.579 (75%)	18	24	30	12	1	¥ 4,440
M12 × 1.75	CPCS012PE	121	33	10.484 (80%)	10.674 (70%)	18	24	30	12	1	¥ 4,440
M12 × 1.75	CPCS012PF	121	33	10.579 (75%)	10.769 (65%)	18	24	30	12	1	¥ 4,440
M12 × 1.75	CPCS012PM	5 piece set consists of CPCS012PB ~ CPCS012PF (95% ~ 65%)									¥ 22,200
M12 × 1.75	CPCS012PS	5 piece set consists of CPCS012PA ~ CPCS012PE (100% ~ 70%)									¥ 22,200
M12 × 1.5	CPCS012OA	121	33	10.376 (100%)	10.538 (90%)	18	24	30	12	1	¥ 5,160
M12 × 1.5	CPCS012OB	121	33	10.457 (95%)	10.620 (85%)	18	24	30	12	1	¥ 5,160
M12 × 1.5	CPCS012OC	121	33	10.538 (90%)	10.701 (80%)	18	24	30	12	1	¥ 5,160
M12 × 1.5	CPCS012OD	121	33	10.620 (85%)	10.782 (75%)	18	24	30	12	1	¥ 5,160
M12 × 1.5	CPCS012OE	121	33	10.701 (80%)	10.863 (70%)	18	24	30	12	1	¥ 5,160
M12 × 1.5	CPCS012OF	121	33	10.782 (75%)	10.944 (65%)	18	24	30	12	1	¥ 5,160
M12 × 1.5	CPCS012OM	5 piece set consists of CPCS012OB ~ CPCS012OF (95% ~ 65%)									¥ 25,800
M12 × 1.5	CPCS012OS	5 piece set consists of CPCS012OA ~ CPCS012OE (100% ~ 70%)									¥ 25,800
M12 × 1.25	CPCS012NA	121	33	10.647 (100%)	10.782 (90%)	18	24	30	12	1	¥ 5,160
M12 × 1.25	CPCS012NB	121	33	10.714 (95%)	10.850 (85%)	18	24	30	12	1	¥ 5,160
M12 × 1.25	CPCS012NC	121	33	10.782 (90%)	10.917 (80%)	18	24	30	12	1	¥ 5,160
M12 × 1.25	CPCS012ND	121	33	10.850 (85%)	10.985 (75%)	18	24	30	12	1	¥ 5,160
M12 × 1.25	CPCS012NE	121	33	10.917 (80%)	11.053 (70%)	18	24	30	12	1	¥ 5,160
M12 × 1.25	CPCS012NF	121	33	10.985 (75%)	11.120 (65%)	18	24	30	12	1	¥ 5,160
M12 × 1.25	CPCS012NM	5 piece set consists of CPCS012NB ~ CPCS012NF (95% ~ 65%)									¥ 25,800
M12 × 1.25	CPCS012NS	5 piece set consists of CPCS012NA ~ CPCS012NE (100% ~ 70%)									¥ 25,800
M12 × 1	CPCS012MA	121	33	10.917 (100%)	11.026 (90%)	18	24	30	12	1	¥ 5,160
M12 × 1	CPCS012MB	121	33	10.972 (95%)	11.080 (85%)	18	24	30	12	1	¥ 5,160
M12 × 1	CPCS012MC	121	33	11.026 (90%)	11.134 (80%)	18	24	30	12	1	¥ 5,160
M12 × 1	CPCS012MD	121	33	11.080 (85%)	11.188 (75%)	18	24	30	12	1	¥ 5,160
M12 × 1	CPCS012ME	121	33	11.134 (80%)	11.242 (70%)	18	24	30	12	1	¥ 5,160
M12 × 1	CPCS012MF	121	33	11.188 (75%)	11.296 (65%)	18	24	30	12	1	¥ 5,160
M12 × 1	CPCS012MM	5 piece set consists of CPCS012MB ~ CPCS012MF (95% ~ 65%)									¥ 25,800
M12 × 1	CPCS012MS	5 piece set consists of CPCS012MA ~ CPCS012ME (100% ~ 70%)									¥ 25,800
For Unified Threads											
No.2-56UNC	CPCSUN2EA	41.5	5.5	1.695 (100%)	1.742 (90%)	3.3	4.4	5.5	3	1	¥ 3,240
No.2-56UNC	CPCSUN2EB	41.5	5.5	1.718 (95%)	1.767 (85%)	3.3	4.4	5.5	3	1	¥ 3,240

□=In stock at manufacturer.

Think threads with
YAMAWA

7

JIS

Spiral Fluted Taps
(for blind hole)

①

Spiral Fluted Taps
(for through hole)

②

Spiral Pointed Taps
(for through hole)

③

Hand Taps

④

Cemented
Carbide Taps

⑤

Roll Taps

⑥

Special Thread Taps
Simple Inspection Tools

⑦

Pipe Taps

⑧

Thread Mills
Premium Thread Mills

⑨

Dies

⑩

Center Drills
Centering Tools

⑪

Precision Machinery/
Medical Surgical Instruments

⑫

JIS

⑦-68

7 Special Thread Taps / Simple Inspection Tools

Overall length	Pin length	Bored hole dia. (G0)	Bored hole dia. (NOT-G0)	Bored hole depth (1.5D)	Bored hole depth (2D)	Bored hole depth (2.5D)	Shank dia.
L	ℓ	d ₁	d ₂	ℓ ₁	ℓ ₂	ℓ ₃	Ds

JIS

CPC-S Check Pins for Bored Hole in Thread Cut Tapping (Straight Type)

Size	Code	L (mm)	ℓ (mm)	d ₁ (Thread engagement ratio)	d ₂ (Thread engagement ratio)	ℓ ₁ (mm)	ℓ ₂ (mm)	ℓ ₃ (mm)	Ds (mm)	TYPE	MSRP
No.2-56UNC	CPCSUN2EC	41.5	5.5	1.742 (90%)	1.791 (80%)	3.3	4.4	5.5	3	1	¥ 3,240 □
No.2-56UNC	CPCSUN2ED	41.5	5.5	1.767 (85%)	1.816 (75%)	3.3	4.4	5.5	3	1	¥ 3,240 □
No.2-56UNC	CPCSUN2EE	41.5	5.5	1.791 (80%)	1.840 (70%)	3.3	4.4	5.5	3	1	¥ 3,240 □
No.2-56UNC	CPCSUN2EF	41.5	5.5	1.816 (75%)	1.865 (65%)	3.3	4.4	5.5	3	1	¥ 3,240 □
No.2-56UNC	CPCSUN2EM	5 piece set consists of CPCSUN2EB ~ CPCSUN2EF (95% ~ 65%)									¥ 16,200 □
No.2-56UNC	CPCSUN2ES	5 piece set consists of CPCSUN2EA ~ CPCSUN2EE (100% ~ 70%)									¥ 16,200 □
No.2-64UNF	CPCSUN2DA	41.5	5.5	1.756 (100%)	1.797 (90%)	3.3	4.4	5.5	3	1	¥ 3,240 □
No.2-64UNF	CPCSUN2DB	41.5	5.5	1.776 (95%)	1.819 (85%)	3.3	4.4	5.5	3	1	¥ 3,240 □
No.2-64UNF	CPCSUN2DC	41.5	5.5	1.797 (90%)	1.840 (80%)	3.3	4.4	5.5	3	1	¥ 3,240 □
No.2-64UNF	CPCSUN2DD	41.5	5.5	1.819 (85%)	1.862 (75%)	3.3	4.4	5.5	3	1	¥ 3,240 □
No.2-64UNF	CPCSUN2DE	41.5	5.5	1.840 (80%)	1.883 (70%)	3.3	4.4	5.5	3	1	¥ 3,240 □
No.2-64UNF	CPCSUN2DF	41.5	5.5	1.862 (75%)	1.905 (65%)	3.3	4.4	5.5	3	1	¥ 3,240 □
No.2-64UNF	CPCSUN2DM	5 piece set consists of CPCSUN2DB ~ CPCSUN2DF (95% ~ 65%)									¥ 16,200 □
No.2-64UNF	CPCSUN2DS	5 piece set consists of CPCSUN2DA ~ CPCSUN2DE (100% ~ 70%)									¥ 16,200 □
No.3-48UNC	CPCSUN3FA	45	7.5	1.941 (100%)	1.999 (90%)	3.8	5	6.3	3	1	¥ 3,480 □
No.3-48UNC	CPCSUN3FB	45	7.5	1.971 (95%)	2.028 (85%)	3.8	5	6.3	3	1	¥ 3,480 □
No.3-48UNC	CPCSUN3FC	45	7.5	1.999 (90%)	2.057 (80%)	3.8	5	6.3	3	1	¥ 3,480 □
No.3-48UNC	CPCSUN3FD	45	7.5	2.028 (85%)	2.085 (75%)	3.8	5	6.3	3	1	¥ 3,480 □
No.3-48UNC	CPCSUN3FE	45	7.5	2.057 (80%)	2.114 (70%)	3.8	5	6.3	3	1	¥ 3,480 □
No.3-48UNC	CPCSUN3FF	45	7.5	2.085 (75%)	2.143 (65%)	3.8	5	6.3	3	1	¥ 3,480 □
No.3-48UNC	CPCSUN3FM	5 piece set consists of CPCSUN3FB ~ CPCSUN3FF (95% ~ 65%)									¥ 17,400 □
No.3-48UNC	CPCSUN3FS	5 piece set consists of CPCSUN3FA ~ CPCSUN3FE (100% ~ 70%)									¥ 17,400 □
No.3-56UNF	CPCSUN3EA	45	7.5	2.025 (100%)	2.073 (90%)	3.8	5	6.3	3	1	¥ 3,480 □
No.3-56UNF	CPCSUN3EB	45	7.5	2.049 (95%)	2.098 (85%)	3.8	5	6.3	3	1	¥ 3,480 □
No.3-56UNF	CPCSUN3EC	45	7.5	2.073 (90%)	2.122 (80%)	3.8	5	6.3	3	1	¥ 3,480 □
No.3-56UNF	CPCSUN3ED	45	7.5	2.098 (85%)	2.147 (75%)	3.8	5	6.3	3	1	¥ 3,480 □
No.3-56UNF	CPCSUN3EE	45	7.5	2.122 (80%)	2.171 (70%)	3.8	5	6.3	3	1	¥ 3,480 □
No.3-56UNF	CPCSUN3EF	45	7.5	2.147 (75%)	2.196 (65%)	3.8	5	6.3	3	1	¥ 3,480 □
No.3-56UNF	CPCSUN3EM	5 piece set consists of CPCSUN3EB ~ CPCSUN3EF (95% ~ 65%)									¥ 17,400 □
No.3-56UNF	CPCSUN3ES	5 piece set consists of CPCSUN3EA ~ CPCSUN3EE (100% ~ 70%)									¥ 17,400 □
No.4-40UNC	CPCSUN4HA	45	7.5	2.157 (100%)	2.226 (90%)	4.3	5.7	7.1	3	1	¥ 3,600 □
No.4-40UNC	CPCSUN4HB	45	7.5	2.192 (95%)	2.261 (85%)	4.3	5.7	7.1	3	1	¥ 3,600 □
No.4-40UNC	CPCSUN4HC	45	7.5	2.226 (90%)	2.295 (80%)	4.3	5.7	7.1	3	1	¥ 3,600 □
No.4-40UNC	CPCSUN4HD	45	7.5	2.261 (85%)	2.329 (75%)	4.3	5.7	7.1	3	1	¥ 3,600 □
No.4-40UNC	CPCSUN4HE	45	7.5	2.295 (80%)	2.364 (70%)	4.3	5.7	7.1	3	1	¥ 3,600 □
No.4-40UNC	CPCSUN4HF	45	7.5	2.329 (75%)	2.398 (65%)	4.3	5.7	7.1	3	1	¥ 3,600 □
No.4-40UNC	CPCSUN4HM	5 piece set consists of CPCSUN4HB ~ CPCSUN4HF (95% ~ 65%)									¥ 18,000 □
No.4-40UNC	CPCSUN4HS	5 piece set consists of CPCSUN4HA ~ CPCSUN4HE (100% ~ 70%)									¥ 18,000 □
No.4-48UNF	CPCSUN4FA	45	7.5	2.271 (100%)	2.329 (90%)	4.3	5.7	7.1	3	1	¥ 3,600 □
No.4-48UNF	CPCSUN4FB	45	7.5	2.301 (95%)	2.358 (85%)	4.3	5.7	7.1	3	1	¥ 3,600 □
No.4-48UNF	CPCSUN4FC	45	7.5	2.329 (90%)	2.387 (80%)	4.3	5.7	7.1	3	1	¥ 3,600 □
No.4-48UNF	CPCSUN4FD	45	7.5	2.358 (85%)	2.415 (75%)	4.3	5.7	7.1	3	1	¥ 3,600 □
No.4-48UNF	CPCSUN4FE	45	7.5	2.387 (80%)	2.444 (70%)	4.3	5.7	7.1	3	1	¥ 3,600 □
No.4-48UNF	CPCSUN4FF	45	7.5	2.415 (75%)	2.473 (65%)	4.3	5.7	7.1	3	1	¥ 3,600 □
No.4-48UNF	CPCSUN4FM	5 piece set consists of CPCSUN4FB ~ CPCSUN4FF (95% ~ 65%)									¥ 18,000 □
No.4-48UNF	CPCSUN4FS	5 piece set consists of CPCSUN4FA ~ CPCSUN4FE (100% ~ 70%)									¥ 18,000 □
No.5-40UNC	CPCSUN5HA	49	9	2.487 (100%)	2.556 (90%)	4.8	6.4	7.9	4	1	¥ 3,720 □
No.5-40UNC	CPCSUN5HB	49	9	2.522 (95%)	2.591 (85%)	4.8	6.4	7.9	4	1	¥ 3,720 □
No.5-40UNC	CPCSUN5HC	49	9	2.556 (90%)	2.625 (80%)	4.8	6.4	7.9	4	1	¥ 3,720 □
No.5-40UNC	CPCSUN5HD	49	9	2.591 (85%)	2.659 (75%)	4.8	6.4	7.9	4	1	¥ 3,720 □

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□=In stock at manufacturer.

Overall length	Pin length	Bored hole dia. (G0)	Bored hole dia. (NOT-G0)	Bored hole depth (1.5D)	Bored hole depth (2D)	Bored hole depth (2.5D)	Shank dia.
L	ℓ	d ₁	d ₂	ℓ ₁	ℓ ₂	ℓ ₃	Ds

CPC-S Check Pins for Bored Hole in Thread Cut Tapping (Straight Type)

Size	Code	L (mm)	ℓ (mm)	d ₁ (Thread engagement ratio)	d ₂ (Thread engagement ratio)	ℓ ₁ (mm)	ℓ ₂ (mm)	ℓ ₃ (mm)	Ds (mm)	TYPE	MSRP
No.5-40UNC	CPCSUN5HE	49	9	2.625 (80%)	2.694 (70%)	4.8	6.4	7.9	4	1	¥ 3,720 □
No.5-40UNC	CPCSUN5HF	49	9	2.659 (75%)	2.728 (65%)	4.8	6.4	7.9	4	1	¥ 3,720 □
No.5-40UNC	CPCSUN5HM	5 piece set consists of CPCSUN5HB ~ CPCSUN5HF (95% ~ 65%)									¥ 18,600 □
No.5-40UNC	CPCSUN5HS	5 piece set consists of CPCSUN5HA ~ CPCSUN5HE (100% ~ 70%)									¥ 18,600 □
No.5-44UNF	CPCSUN5GA	49	9	2.551 (100%)	2.613 (90%)	4.8	6.4	7.9	4	1	¥ 3,720 □
No.5-44UNF	CPCSUN5GB	49	9	2.581 (95%)	2.644 (85%)	4.8	6.4	7.9	4	1	¥ 3,720 □
No.5-44UNF	CPCSUN5GC	49	9	2.613 (90%)	2.675 (80%)	4.8	6.4	7.9	4	1	¥ 3,720 □
No.5-44UNF	CPCSUN5GD	49	9	2.644 (85%)	2.706 (75%)	4.8	6.4	7.9	4	1	¥ 3,720 □
No.5-44UNF	CPCSUN5GE	49	9	2.675 (80%)	2.738 (70%)	4.8	6.4	7.9	4	1	¥ 3,720 □
No.5-44UNF	CPCSUN5GF	49	9	2.706 (75%)	2.769 (65%)	4.8	6.4	7.9	4	1	¥ 3,720 □
No.5-44UNF	CPCSUN5GM	5 piece set consists of CPCSUN5GB ~ CPCSUN5GF (95% ~ 65%)									¥ 18,600 □
No.5-44UNF	CPCSUN5GS	5 piece set consists of CPCSUN5GA ~ CPCSUN5GE (100% ~ 70%)									¥ 18,600 □
No.6-32UNC	CPCSUN6JA	49	9	2.642 (100%)	2.732 (90%)	5.3	7	8.8	4	1	¥ 3,840 □
No.6-32UNC	CPCSUN6JB	49	9	2.689 (95%)	2.775 (85%)	5.3	7	8.8	4	1	¥ 3,840 □
No.6-32UNC	CPCSUN6JC	49	9	2.732 (90%)	2.818 (80%)	5.3	7	8.8	4	1	¥ 3,840 □
No.6-32UNC	CPCSUN6JD	49	9	2.775 (85%)	2.861 (75%)	5.3	7	8.8	4	1	¥ 3,840 □
No.6-32UNC	CPCSUN6JE	49	9	2.818 (80%)	2.903 (70%)	5.3	7	8.8	4	1	¥ 3,840 □
No.6-32UNC	CPCSUN6JF	49	9	2.861 (75%)	2.946 (65%)	5.3	7	8.8	4	1	¥ 3,840 □
No.6-32UNC	CPCSUN6JM	5 piece set consists of CPCSUN6JB ~ CPCSUN6JF (95% ~ 65%)									¥ 19,200 □
No.6-32UNC	CPCSUN6JS	5 piece set consists of CPCSUN6JA ~ CPCSUN6JE (100% ~ 70%)									¥ 19,200 □
No.6-40UNF	CPCSUN6HA	49	9	2.820 (100%)	2.886 (90%)	5.3	7	8.8	4	1	¥ 3,840 □
No.6-40UNF	CPCSUN6HB	49	9	2.852 (95%)	2.921 (85%)	5.3	7	8.8	4	1	¥ 3,840 □
No.6-40UNF	CPCSUN6HC	49	9	2.886 (90%)	2.955 (80%)	5.3	7	8.8	4	1	¥ 3,840 □
No.6-40UNF	CPCSUN6HD	49	9	2.921 (85%)	2.989 (75%)	5.3	7	8.8	4	1	¥ 3,840 □
No.6-40UNF	CPCSUN6HE	49	9	2.955 (80%)	3.024 (70%)	5.3	7	8.8	4	1	¥ 3,840 □
No.6-40UNF	CPCSUN6HF	49	9	2.989 (75%)	3.058 (65%)	5.3	7	8.8	4	1	¥ 3,840 □
No.6-40UNF	CPCSUN6HM	5 piece set consists of CPCSUN6HB ~ CPCSUN6HF (95% ~ 65%)									¥ 19,200 □
No.6-40UNF	CPCSUN6HS	5 piece set consists of CPCSUN6HA ~ CPCSUN6HE (100% ~ 70%)									¥ 19,200 □
No.8-32UNC	CPCSUN8JA	57	11	3.302 (100%)	3.394 (90%)	6.3	8.3	10.4	5	1	¥ 3,960 □
No.8-32UNC	CPCSUN8JB	57	11	3.351 (95%)	3.437 (85%)	6.3	8.3	10.4	5	1	¥ 3,960 □
No.8-32UNC	CPCSUN8JC	57	11	3.394 (90%)	3.480 (80%)	6.3	8.3	10.4	5	1	¥ 3,960 □
No.8-32UNC	CPCSUN8JD	57	11	3.437 (85%)	3.523 (75%)	6.3	8.3	10.4	5	1	¥ 3,960 □
No.8-32UNC	CPCSUN8JE	57	11	3.480 (80%)	3.565 (70%)	6.3	8.3	10.4	5	1	¥ 3,960 □
No.8-32UNC	CPCSUN8JF	57	11	3.523 (75%)	3.608 (65%)	6.3	8.3	10.4	5	1	¥ 3,960 □
No.8-32UNC	CPCSUN8JM	5 piece set consists of CPCSUN8JB ~ CPCSUN8JF (95% ~ 65%)									¥ 19,800 □
No.8-32UNC	CPCSUN8JS	5 piece set consists of CPCSUN8JA ~ CPCSUN8JE (100% ~ 70%)									¥ 19,800 □
No.8-36UNF	CPCSUN8IA	57	11	3.404 (100%)	3.480 (90%)	6.3	8.3	10.4	5	1	¥ 3,960 □
No.8-36UNF	CPCSUN8IB	57	11	3.441 (95%)	3.518 (85%)	6.3	8.3	10.4	5	1	¥ 3,960 □
No.8-36UNF	CPCSUN8IC	57	11	3.480 (90%)	3.556 (80%)	6.3	8.3	10.4	5	1	¥ 3,960 □
No.8-36UNF	CPCSUN8ID	57	11	3.518 (85%)	3.594 (75%)	6.3	8.3	10.4	5	1	¥ 3,960 □
No.8-36UNF	CPCSUN8IE	57	11	3.556 (80%)	3.632 (70%)	6.3	8.3	10.4	5	1	¥ 3,960 □
No.8-36UNF	CPCSUN8IF	57	11	3.594 (75%)	3.671 (65%)	6.3	8.3	10.4	5	1	¥ 3,960 □
No.8-36UNF	CPCSUN8IM	5 piece set consists of CPCSUN8IB ~ CPCSUN8IF (95% ~ 65%)									¥ 19,800 □
No.8-36UNF	CPCSUN8IS	5 piece set consists of CPCSUN8IA ~ CPCSUN8IE (100% ~ 70%)									¥ 19,800 □
No.10-24UNC	CPCSUNAMA	65	14	3.683 (100%)	3.795 (90%)	7.2	9.7	12.1	5.5	1	¥ 4,080 □
No.10-24UNC	CPCSUNAMB	65	14	3.738 (95%)	3.852 (85%)	7.2	9.7	12.1	5.5	1	¥ 4,080 □
No.10-24UNC	CPCSUNAMC	65	14	3.795 (90%)	3.909 (80%)	7.2	9.7	12.1	5.5	1	¥ 4,080 □
No.10-24UNC	CPCSUNAMD	65	14	3.852 (85%)	3.967 (75%)	7.2	9.7	12.1	5.5	1	¥ 4,080 □
No.10-24UNC	CPCSUNAME	65	14	3.909 (80%)	4.024 (70%)	7.2	9.7	12.1	5.5	1	¥ 4,080 □
No.10-24UNC	CPCSUNAMF	65	14	3.967 (75%)	4.081 (65%)	7.2	9.7	12.1	5.5	1	¥ 4,080 □

□=In stock at manufacturer.

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Spiral Fluted Taps
(for blind hole)

①

Spiral Fluted Taps
(for through hole)

②

Spiral Pointed Taps
(for through hole)

③

Hand Taps

④

Cemented
Carbide Taps

⑤

Roll Taps

⑥

Special Thread Taps
Simple Inspection Tools

⑦

Pipe Taps

⑧

Thread Mills
Premium Thread Mills

⑨

Dies

⑩

Center Drills
Centering Tools

⑪

Precision Machinery/
Medical Surgical Instruments

⑫

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⑦-70

7 Special Thread Taps / Simple Inspection Tools

Overall length	Pin length	Bored hole dia. (G0)	Bored hole dia. (NOT-G0)	Bored hole depth (1.5D)	Bored hole depth (2D)	Bored hole depth (2.5D)	Shank dia.
L	ℓ	d ₁	d ₂	ℓ ₁	ℓ ₂	ℓ ₃	Ds

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CPC-S Check Pins for Bored Hole in Thread Cut Tapping (Straight Type)

Size	Code	L (mm)	ℓ (mm)	d ₁ (Thread engagement ratio)	d ₂ (Thread engagement ratio)	ℓ ₁ (mm)	ℓ ₂ (mm)	ℓ ₃ (mm)	Ds (mm)	TYPE	MSRP
No.10-24UNC	CPCSUNAMM	5 piece set consists of CPCSUNAMB ~ CPCSUNAMF (95% ~ 65%)									¥ 20,400
No.10-24UNC	CPCSUNAMS	5 piece set consists of CPCSUNAMA ~ CPCSUNAME (100% ~ 70%)									¥ 20,400
No.10-32UNF	CPCSUNAJA	65	14	3.963 (100%)	4.053 (90%)	7.2	9.7	12.1	5.5	1	¥ 4,080
No.10-32UNF	CPCSUNAJB	65	14	4.010 (95%)	4.096 (85%)	7.2	9.7	12.1	5.5	1	¥ 4,080
No.10-32UNF	CPCSUNAJC	65	14	4.053 (90%)	4.139 (80%)	7.2	9.7	12.1	5.5	1	¥ 4,080
No.10-32UNF	CPCSUNAJD	65	14	4.096 (85%)	4.182 (75%)	7.2	9.7	12.1	5.5	1	¥ 4,080
No.10-32UNF	CPCSUNAJE	65	14	4.139 (80%)	4.224 (70%)	7.2	9.7	12.1	5.5	1	¥ 4,080
No.10-32UNF	CPCSUNAJF	65	14	4.182 (75%)	4.267 (65%)	7.2	9.7	12.1	5.5	1	¥ 4,080
No.10-32UNF	CPCSUNAJM	5 piece set consists of CPCSUNAJB ~ CPCSUNAJF (95% ~ 65%)									¥ 20,400
No.10-32UNF	CPCSUNAJS	5 piece set consists of CPCSUNAJA ~ CPCSUNAJE (100% ~ 70%)									¥ 20,400
No.12-24UNC	CPCSUNCMA	65	14	4.344 (100%)	4.455 (90%)	8.2	11	13.7	5.5	1	¥ 4,560
No.12-24UNC	CPCSUNCMB	65	14	4.398 (95%)	4.512 (85%)	8.2	11	13.7	5.5	1	¥ 4,560
No.12-24UNC	CPCSUNCMC	65	14	4.455 (90%)	4.569 (80%)	8.2	11	13.7	5.5	1	¥ 4,560
No.12-24UNC	CPCSUNCMD	65	14	4.512 (85%)	4.627 (75%)	8.2	11	13.7	5.5	1	¥ 4,560
No.12-24UNC	CPCSUNCME	65	14	4.569 (80%)	4.684 (70%)	8.2	11	13.7	5.5	1	¥ 4,560
No.12-24UNC	CPCSUNCMF	65	14	4.627 (75%)	4.741 (65%)	8.2	11	13.7	5.5	1	¥ 4,560
No.12-24UNC	CPCSUNCMM	5 piece set consists of CPCSUNCMB ~ CPCSUNCMF (95% ~ 65%)									¥ 22,800
No.12-24UNC	CPCSUNCMS	5 piece set consists of CPCSUNCMA ~ CPCSUNCME (100% ~ 70%)									¥ 22,800
No.12-28UNF	CPCSUNCKA	65	14	4.496 (100%)	4.602 (90%)	8.2	11	13.7	5.5	1	¥ 4,560
No.12-28UNF	CPCSUNCKB	65	14	4.553 (95%)	4.651 (85%)	8.2	11	13.7	5.5	1	¥ 4,560
No.12-28UNF	CPCSUNCKC	65	14	4.602 (90%)	4.700 (80%)	8.2	11	13.7	5.5	1	¥ 4,560
No.12-28UNF	CPCSUNCKD	65	14	4.651 (85%)	4.749 (75%)	8.2	11	13.7	5.5	1	¥ 4,560
No.12-28UNF	CPCSUNCKE	65	14	4.700 (80%)	4.799 (70%)	8.2	11	13.7	5.5	1	¥ 4,560
No.12-28UNF	CPCSUNCKF	65	14	4.749 (75%)	4.848 (65%)	8.2	11	13.7	5.5	1	¥ 4,560
No.12-28UNF	CPCSUNCKM	5 piece set consists of CPCSUNCKB ~ CPCSUNCKF (95% ~ 65%)									¥ 22,800
No.12-28UNF	CPCSUNCKS	5 piece set consists of CPCSUNCKA ~ CPCSUNCKE (100% ~ 70%)									¥ 22,800
1/4-20UNC	CPCSU04NA	73	16.5	4.979 (100%)	5.113 (90%)	9.5	12.7	15.9	6	1	¥ 4,680
1/4-20UNC	CPCSU04NB	73	16.5	5.044 (95%)	5.181 (85%)	9.5	12.7	15.9	6	1	¥ 4,680
1/4-20UNC	CPCSU04NC	73	16.5	5.113 (90%)	5.250 (80%)	9.5	12.7	15.9	6	1	¥ 4,680
1/4-20UNC	CPCSU04ND	73	16.5	5.181 (85%)	5.319 (75%)	9.5	12.7	15.9	6	1	¥ 4,680
1/4-20UNC	CPCSU04NE	73	16.5	5.250 (80%)	5.388 (70%)	9.5	12.7	15.9	6	1	¥ 4,680
1/4-20UNC	CPCSU04NF	73	16.5	5.319 (75%)	5.456 (65%)	9.5	12.7	15.9	6	1	¥ 4,680
1/4-20UNC	CPCSU04NM	5 piece set consists of CPCSU04NB ~ CPCSU04NF (95% ~ 65%)									¥ 23,400
1/4-20UNC	CPCSU04NS	5 piece set consists of CPCSU04NA ~ CPCSU04NE (100% ~ 70%)									¥ 23,400
1/4-28UNF	CPCSU04KA	73	16.5	5.360 (100%)	5.466 (90%)	9.5	12.7	15.9	6	1	¥ 4,680
1/4-28UNF	CPCSU04KB	73	16.5	5.417 (95%)	5.515 (85%)	9.5	12.7	15.9	6	1	¥ 4,680
1/4-28UNF	CPCSU04KC	73	16.5	5.466 (90%)	5.564 (80%)	9.5	12.7	15.9	6	1	¥ 4,680
1/4-28UNF	CPCSU04KD	73	16.5	5.515 (85%)	5.613 (75%)	9.5	12.7	15.9	6	1	¥ 4,680
1/4-28UNF	CPCSU04KE	73	16.5	5.564 (80%)	5.663 (70%)	9.5	12.7	15.9	6	1	¥ 4,680
1/4-28UNF	CPCSU04KF	73	16.5	5.613 (75%)	5.712 (65%)	9.5	12.7	15.9	6	1	¥ 4,680
1/4-28UNF	CPCSU04KM	5 piece set consists of CPCSU04KB ~ CPCSU04KF (95% ~ 65%)									¥ 23,400
1/4-28UNF	CPCSU04KS	5 piece set consists of CPCSU04KA ~ CPCSU04KE (100% ~ 70%)									¥ 23,400
5/16-18UNC	CPCSU05OA	99	22	6.401 (100%)	6.563 (90%)	11.9	15.9	19.8	8	1	¥ 4,800
5/16-18UNC	CPCSU05OB	99	22	6.487 (95%)	6.639 (85%)	11.9	15.9	19.8	8	1	¥ 4,800
5/16-18UNC	CPCSU05OC	99	22	6.563 (90%)	6.716 (80%)	11.9	15.9	19.8	8	1	¥ 4,800
5/16-18UNC	CPCSU05OD	99	22	6.639 (85%)	6.792 (75%)	11.9	15.9	19.8	8	1	¥ 4,800
5/16-18UNC	CPCSU05OE	99	22	6.716 (80%)	6.869 (70%)	11.9	15.9	19.8	8	1	¥ 4,800
5/16-18UNC	CPCSU05OF	99	22	6.792 (75%)	6.945 (65%)	11.9	15.9	19.8	8	1	¥ 4,800
5/16-18UNC	CPCSU05OM	5 piece set consists of CPCSU05OB ~ CPCSU05OF (95% ~ 65%)									¥ 24,000
5/16-18UNC	CPCSU05OS	5 piece set consists of CPCSU05OA ~ CPCSU05OE (100% ~ 70%)									¥ 24,000

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Overall length	Pin length	Bored hole dia. (G0)	Bored hole dia. (NOT-G0)	Bored hole depth (1.5D)	Bored hole depth (2D)	Bored hole depth (2.5D)	Shank dia.
L	ℓ	d ₁	d ₂	ℓ ₁	ℓ ₂	ℓ ₃	Ds

CPC-S Check Pins for Bored Hole in Thread Cut Tapping (Straight Type)

Size	Code	L (mm)	ℓ (mm)	d ₁ (Thread engagement ratio)	d ₂ (Thread engagement ratio)	ℓ ₁ (mm)	ℓ ₂ (mm)	ℓ ₃ (mm)	Ds (mm)	TYPE	MSRP
5/16-24UNF	CPCSU05MA	99	22	6.782 (100%)	6.907 (90%)	11.9	15.9	19.8	8	1	¥ 4,800 □
5/16-24UNF	CPCSU05MB	99	22	6.850 (95%)	6.964 (85%)	11.9	15.9	19.8	8	1	¥ 4,800 □
5/16-24UNF	CPCSU05MC	99	22	6.907 (90%)	7.021 (80%)	11.9	15.9	19.8	8	1	¥ 4,800 □
5/16-24UNF	CPCSU05MD	99	22	6.964 (85%)	7.079 (75%)	11.9	15.9	19.8	8	1	¥ 4,800 □
5/16-24UNF	CPCSU05ME	99	22	7.021 (80%)	7.136 (70%)	11.9	15.9	19.8	8	1	¥ 4,800 □
5/16-24UNF	CPCSU05MF	99	22	7.079 (75%)	7.193 (65%)	11.9	15.9	19.8	8	1	¥ 4,800 □
5/16-24UNF	CPCSU05MM	5 piece set consists of CPCSU05MB ~ CPCSU05MF (95% ~ 65%)									¥ 24,000 □
5/16-24UNF	CPCSU05MS	5 piece set consists of CPCSU05MA ~ CPCSU05ME (100% ~ 70%)									¥ 24,000 □
3/8-16UNC	CPCSU06PA	110	27.5	7.798 (100%)	7.978 (90%)	14.3	19.1	23.8	10	1	¥ 5,040 □
3/8-16UNC	CPCSU06PB	110	27.5	7.892 (95%)	8.064 (85%)	14.3	19.1	23.8	10	1	¥ 5,040 □
3/8-16UNC	CPCSU06PC	110	27.5	7.978 (90%)	8.150 (80%)	14.3	19.1	23.8	10	1	¥ 5,040 □
3/8-16UNC	CPCSU06PD	110	27.5	8.064 (85%)	8.236 (75%)	14.3	19.1	23.8	10	1	¥ 5,040 □
3/8-16UNC	CPCSU06PE	110	27.5	8.150 (80%)	8.322 (70%)	14.3	19.1	23.8	10	1	¥ 5,040 □
3/8-16UNC	CPCSU06PF	110	27.5	8.236 (75%)	8.408 (65%)	14.3	19.1	23.8	10	1	¥ 5,040 □
3/8-16UNC	CPCSU06PM	5 piece set consists of CPCSU06PB ~ CPCSU06PF (95% ~ 65%)									¥ 25,200 □
3/8-16UNC	CPCSU06PS	5 piece set consists of CPCSU06PA ~ CPCSU06PE (100% ~ 70%)									¥ 25,200 □
3/8-24UNF	CPCSU06MA	110	27.5	8.382 (100%)	8.494 (90%)	14.3	19.1	23.8	10	1	¥ 5,040 □
3/8-24UNF	CPCSU06MB	110	27.5	8.437 (95%)	8.551 (85%)	14.3	19.1	23.8	10	1	¥ 5,040 □
3/8-24UNF	CPCSU06MC	110	27.5	8.494 (90%)	8.608 (80%)	14.3	19.1	23.8	10	1	¥ 5,040 □
3/8-24UNF	CPCSU06MD	110	27.5	8.551 (85%)	8.666 (75%)	14.3	19.1	23.8	10	1	¥ 5,040 □
3/8-24UNF	CPCSU06ME	110	27.5	8.608 (80%)	8.723 (70%)	14.3	19.1	23.8	10	1	¥ 5,040 □
3/8-24UNF	CPCSU06MF	110	27.5	8.666 (75%)	8.780 (65%)	14.3	19.1	23.8	10	1	¥ 5,040 □
3/8-24UNF	CPCSU06MM	5 piece set consists of CPCSU06MB ~ CPCSU06MF (95% ~ 65%)									¥ 25,200 □
3/8-24UNF	CPCSU06MS	5 piece set consists of CPCSU06MA ~ CPCSU06ME (100% ~ 70%)									¥ 25,200 □
7/16-14UNC	CPCSU07QA	121	33	9.144 (100%)	9.345 (90%)	16.7	22.2	27.8	12	1	¥ 5,160 □
7/16-14UNC	CPCSU07QB	121	33	9.247 (95%)	9.443 (85%)	16.7	22.2	27.8	12	1	¥ 5,160 □
7/16-14UNC	CPCSU07QC	121	33	9.345 (90%)	9.542 (80%)	16.7	22.2	27.8	12	1	¥ 5,160 □
7/16-14UNC	CPCSU07QD	121	33	9.443 (85%)	9.640 (75%)	16.7	22.2	27.8	12	1	¥ 5,160 □
7/16-14UNC	CPCSU07QE	121	33	9.542 (80%)	9.738 (70%)	16.7	22.2	27.8	12	1	¥ 5,160 □
7/16-14UNC	CPCSU07QF	121	33	9.640 (75%)	9.836 (65%)	16.7	22.2	27.8	12	1	¥ 5,160 □
7/16-14UNC	CPCSU07QM	5 piece set consists of CPCSU07QB ~ CPCSU07QF (95% ~ 65%)									¥ 25,800 □
7/16-14UNC	CPCSU07QS	5 piece set consists of CPCSU07QA ~ CPCSU07QE (100% ~ 70%)									¥ 25,800 □
7/16-20UNF	CPCSU07NA	121	33	9.729 (100%)	9.876 (90%)	16.7	22.2	27.8	12	1	¥ 5,160 □
7/16-20UNF	CPCSU07NB	121	33	9.807 (95%)	9.944 (85%)	16.7	22.2	27.8	12	1	¥ 5,160 □
7/16-20UNF	CPCSU07NC	121	33	9.876 (90%)	10.013 (80%)	16.7	22.2	27.8	12	1	¥ 5,160 □
7/16-20UNF	CPCSU07ND	121	33	9.944 (85%)	10.082 (75%)	16.7	22.2	27.8	12	1	¥ 5,160 □
7/16-20UNF	CPCSU07NE	121	33	10.013 (80%)	10.151 (70%)	16.7	22.2	27.8	12	1	¥ 5,160 □
7/16-20UNF	CPCSU07NF	121	33	10.082 (75%)	10.219 (65%)	16.7	22.2	27.8	12	1	¥ 5,160 □
7/16-20UNF	CPCSU07NM	5 piece set consists of CPCSU07NB ~ CPCSU07NF (95% ~ 65%)									¥ 25,800 □
7/16-20UNF	CPCSU07NS	5 piece set consists of CPCSU07NA ~ CPCSU07NE (100% ~ 70%)									¥ 25,800 □
1/2-13UNC	CPCSU08RA	121	33	10.592 (100%)	10.796 (90%)	19.1	25.4	31.8	12	1	¥ 5,400 □
1/2-13UNC	CPCSU08RB	121	33	10.691 (95%)	10.902 (85%)	19.1	25.4	31.8	12	1	¥ 5,400 □
1/2-13UNC	CPCSU08RC	121	33	10.796 (90%)	11.008 (80%)	19.1	25.4	31.8	12	1	¥ 5,400 □
1/2-13UNC	CPCSU08RD	121	33	10.902 (85%)	11.114 (75%)	19.1	25.4	31.8	12	1	¥ 5,400 □
1/2-13UNC	CPCSU08RE	121	33	11.008 (80%)	11.219 (70%)	19.1	25.4	31.8	12	1	¥ 5,400 □
1/2-13UNC	CPCSU08RF	121	33	11.114 (75%)	11.325 (65%)	19.1	25.4	31.8	12	1	¥ 5,400 □
1/2-13UNC	CPCSU08RM	5 piece set consists of CPCSU08RB ~ CPCSU08RF (95% ~ 65%)									¥ 27,000 □
1/2-13UNC	CPCSU08RS	5 piece set consists of CPCSU08RA ~ CPCSU08RE (100% ~ 70%)									¥ 27,000 □
1/2-20UNF	CPCSU08NA	121	33	11.329 (100%)	11.463 (90%)	19.1	25.4	31.8	12	1	¥ 5,400 □
1/2-20UNF	CPCSU08NB	121	33	11.394 (95%)	11.531 (85%)	19.1	25.4	31.8	12	1	¥ 5,400 □

□=In stock at manufacturer.

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Spiral Fluted Taps (for blind hole) ①

Spiral Fluted Taps (for through hole) ②

Spiral Pointed Taps (for through hole) ③

Hand Taps ④

Cemented Carbide Taps ⑤

Roll Taps ⑥

Special Thread Taps Simple Inspection Tools ⑦

Pipe Taps ⑧

Thread Mills Premium Thread Mills ⑨

Dies ⑩

Center Drills Centering Tools ⑪

Precision Machinery/Medical Surgical Instruments ⑫

JIS

⑦-72

7 Special Thread Taps / Simple Inspection Tools

Overall length	Pin length	Bored hole dia. (GO)	Bored hole dia. (NOT-GO)	Bored hole depth (1.5D)	Bored hole depth (2D)	Bored hole depth (2.5D)	Shank dia.
L	ℓ	d ₁	d ₂	ℓ ₁	ℓ ₂	ℓ ₃	Ds

JIS

CPC-S Check Pins for Bored Hole in Thread Cut Tapping (Straight Type)

Size	Code	L (mm)	ℓ (mm)	d ₁ (Thread engagement ratio)	d ₂ (Thread engagement ratio)	ℓ ₁ (mm)	ℓ ₂ (mm)	ℓ ₃ (mm)	Ds (mm)	TYPE	MSRP
1/2-20UNF	CPCSU08NC	121	33	11.463 (90%)	11.600 (80%)	19.1	25.4	31.8	12	1	¥ 5,400 □
1/2-20UNF	CPCSU08ND	121	33	11.531 (85%)	11.669 (75%)	19.1	25.4	31.8	12	1	¥ 5,400 □
1/2-20UNF	CPCSU08NE	121	33	11.600 (80%)	11.738 (70%)	19.1	25.4	31.8	12	1	¥ 5,400 □
1/2-20UNF	CPCSU08NF	121	33	11.669 (75%)	11.806 (65%)	19.1	25.4	31.8	12	1	¥ 5,400 □
1/2-20UNF	CPCSU08NM	5 piece set consists of CPCSU08NB ~ CPCSU08NF (95% ~ 65%)									¥ 27,000 □
1/2-20UNF	CPCSU08NS	5 piece set consists of CPCSU08NA ~ CPCSU08NE (100% ~ 70%)									¥ 27,000 □

① Spiral Fluted Taps (for blind hole)

② Spiral Fluted Taps (for through hole)

③ Spiral Pointed Taps (for through hole)

④ Hand Taps

⑤ Cemented Carbide Taps

⑥ Roll Taps

⑦ Special Thread Taps Simple Inspection Tools

⑧ Pipe Taps

⑨ Thread Mills Premium Thread Mills

⑩ Dies

⑪ Center Drills Centering Tools

⑫ Precision Machinery/ Medical Surgical Instruments

JIS

M E M O

Spiral Fluted Taps
(for blind hole) ①Spiral Fluted Taps
(for through hole) ②Spiral Pointed Taps
(for through hole) ③

Hand Taps ④

Cemented
Carbide Taps ⑤

Roll Taps ⑥

Special Thread Taps
Simple Inspection Tools ⑦

Pipe Taps ⑧

Thread Mills
Premium Thread Mills ⑨

Dies ⑩

Center Drills
Centering Tools ⑪Precision Machinery/
Medical Surgical Instruments ⑫

7 Special Thread Taps / Simple Inspection Tools

JIS

- ① Spiral Fluted Taps (for blind hole)
- ② Spiral Fluted Taps (for through hole)
- ③ Spiral Pointed Taps (for through hole)
- ④ Hand Taps

⑤ Cemented Carbide Taps

⑥ Roll Taps

⑦ Special Thread Taps Simple Inspection Tools

⑧ Pipe Taps

⑨ Thread Mills Premium Thread Mills

⑩ Dies

⑪ Center Drills Centering Tools

⑫ Precision Machinery/ Medical Surgical Instruments

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⑦-75



CPC-T

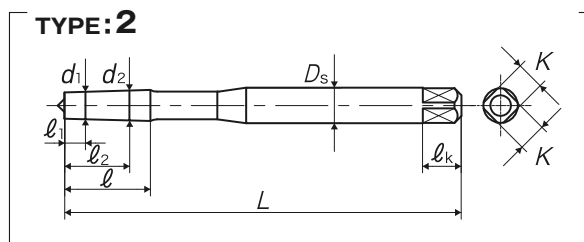
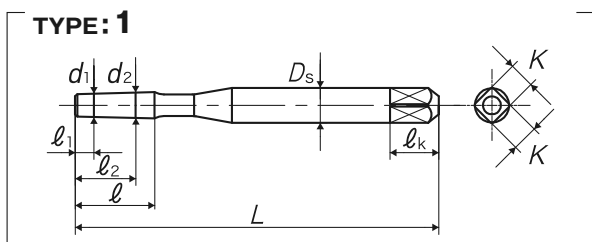
Check Pins for Bored Holes in Thread Cut Tapping (Taper Type)



Specification

HSS

■ One CPC-T enables simple checking of bored hole dia. (for cutting taps, taper type). CPC-T is made from wear resistant HSS material and is applicable for through hole and for blind hole having enough space in the bottom.



Segment : 7C

Size	Code	L (mm)	l (mm)	d ₁ (Thread engagement ratio)	d ₂ (Thread engagement ratio)	l ₁ (mm)	l ₂ (mm)	Ds (mm)	K (mm)	lk (mm)	TYPE	MSRP
For Metric Threads												
M2 × 0.4	CPCT2.0E	42	7	1.567 (100%)	1.679 (74%)	1	6	3	2.5	5	1	¥ 1,800 □
M2.5 × 0.45	CPCT2.5F	46	8	2.013 (100%)	2.138 (74%)	1.5	6.5	3	2.5	5	1	¥ 1,920 □
M2.5 × 0.35	CPCT2.5D	46	8	2.121 (100%)	2.221 (74%)	1.5	6.5	3	2.5	5	1	¥ 2,280 □
M3 × 0.5	CPCT3.0G	46	8.5	2.459 (100%)	2.599 (74%)	1.5	7	4	3.2	6	1	¥ 2,040 □
M3 × 0.35	CPCT3.0D	46	8.5	2.621 (100%)	2.721 (74%)	1.5	7	4	3.2	6	1	¥ 2,400 □
M3.5 × 0.6	CPCT3.5H	52	10.5	2.850 (100%)	3.010 (75%)	2.25	8.25	5	4	7	1	¥ 2,280 □
M3.5 × 0.35	CPCT3.5D	52	10.5	3.121 (100%)	3.221 (74%)	2.25	8.25	5	4	7	1	¥ 2,520 □
M4 × 0.7	CPCT4.0I	52	10.5	3.242 (100%)	3.422 (76%)	2.25	8.25	5	4	7	1	¥ 2,280 □
M4 × 0.5	CPCT4.0G	52	10.5	3.459 (100%)	3.599 (74%)	2.25	8.25	5	4	7	1	¥ 2,520 □
M4.5 × 0.75	CPCT4.5J	59.5	12.5	3.688 (100%)	3.878 (77%)	2.5	10	5.5	4.5	7	1	¥ 2,280 □
M4.5 × 0.5	CPCT4.5G	59.5	12.5	3.959 (100%)	4.099 (74%)	2.5	10	5.5	4.5	7	1	¥ 2,760 □
M5 × 0.8	CPCT5.0K	59.5	12.5	4.134 (100%)	4.334 (77%)	2.5	10	5.5	4.5	7	1	¥ 2,280 □
M5 × 0.5	CPCT5.0G	59.5	12.5	4.459 (100%)	4.599 (74%)	2.5	10	5.5	4.5	7	1	¥ 2,760 □
M6 × 1	CPCT6.0M	61.5	16.5	4.917 (100%)	5.153 (78%)	3.75	12.75	6	4.5	7	1	¥ 2,520 □
M6 × 0.75	CPCT6.0J	61.5	16.5	5.188 (100%)	5.378 (77%)	3.75	12.75	6	4.5	7	1	¥ 3,000 □
M7 × 1	CPCT7.0M	90	19.4	5.917 (100%)	6.153 (78%)	4.7	14.7	8	6.2	9	2	¥ 2,880 □
M7 × 0.75	CPCT7.0J	90	19.4	6.188 (100%)	6.378 (77%)	4.7	14.7	8	6.2	9	2	¥ 3,240 □
M8 × 1.25	CPCT8.0N	90	19.4	6.647 (100%)	6.912 (80%)	4.7	14.7	8	6.2	9	2	¥ 2,880 □
M8 × 1	CPCT8.0M	90	19.4	6.917 (100%)	7.153 (78%)	4.7	14.7	8	6.2	9	2	¥ 3,240 □
M8 × 0.75	CPCT8.0J	90	19.4	7.188 (100%)	7.378 (77%)	4.7	14.7	8	6.2	9	2	¥ 3,240 □
M9 × 1.25	CPCT9.0N	100	23.4	7.647 (100%)	7.912 (80%)	6.7	16.7	10	8	11	2	¥ 2,880 □
M9 × 1	CPCT9.0M	100	23.4	7.917 (100%)	8.153 (78%)	6.7	16.7	10	8	11	2	¥ 3,360 □
M9 × 0.75	CPCT9.0J	100	23.4	8.188 (100%)	8.378 (77%)	6.7	16.7	10	8	11	2	¥ 3,360 □
M10 × 1.5	CPCT010O	100	23.4	8.376 (100%)	8.676 (82%)	6.7	16.7	10	8	11	2	¥ 2,880 □
M10 × 1.25	CPCT010N	100	23.4	8.647 (100%)	8.912 (80%)	6.7	16.7	10	8	11	2	¥ 3,360 □

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□=In stock at manufacturer.

Overall length	Pin length	Bored hole dia. (G0)	Bored hole dia. (NOT-G0)	d ₁ length	d ₂ length	Shank dia.	Size of square	Length of square
L	ℓ	d ₁	d ₂	ℓ ₁	ℓ ₂	Ds	K	ℓk

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Size	Code	L (mm)	ℓ (mm)	d ₁ (Thread engagement ratio)	d ₂ (Thread engagement ratio)	ℓ ₁ (mm)	ℓ ₂ (mm)	Ds (mm)	K (mm)	ℓk (mm)	TYPE	MSRP
M10 × 1	CPCT010M	100	23.4	8.917 (100%)	9.153 (78%)	6.7	16.7	10	8	11	2	¥ 3,360 □
M10 × 0.75	CPCT010J	100	23.4	9.188 (100%)	9.378 (77%)	6.7	16.7	10	8	11	2	¥ 3,360 □
M11 × 1.5	CPCT011O	110	27.4	9.376 (100%)	9.676 (82%)	7.7	19.7	12	9	12	2	¥ 3,000 □
M11 × 1	CPCT011M	110	27.4	9.917 (100%)	10.153 (78%)	7.7	19.7	12	9	12	2	¥ 3,480 □
M11 × 0.75	CPCT011J	110	27.4	10.188 (100%)	10.378 (77%)	7.7	19.7	12	9	12	2	¥ 3,480 □
M12 × 1.75	CPCT012P	110	27.4	10.106 (100%)	10.441 (82%)	7.7	19.7	12	9	12	2	¥ 3,000 □
M12 × 1.5	CPCT012O	110	27.4	10.376 (100%)	10.676 (82%)	7.7	19.7	12	9	12	2	¥ 3,480 □
M12 × 1.25	CPCT012N	110	27.4	10.647 (100%)	10.912 (80%)	7.7	19.7	12	9	12	2	¥ 3,480 □
M12 × 1	CPCT012M	110	27.4	10.917 (100%)	11.153 (78%)	7.7	19.7	12	9	12	2	¥ 3,480 □
For Unified Threads												
No.2-56UNC	CPCTUN2E	42	7	1.695 (100%)	1.871 (64%)	1	6	3	2.5	5	1	¥ 2,160 □
No.2-64UNF	CPCTUN2D	42	7	1.756 (100%)	1.912 (63%)	1	6	3	2.5	5	1	¥ 2,160 □
No.3-48UNC	CPCTUN3F	46	8	1.941 (100%)	2.146 (64%)	1.5	6.5	3	2.5	5	1	¥ 2,520 □
No.3-56UNF	CPCTUN3E	46	8	2.025 (100%)	2.197 (65%)	1.5	6.5	3	2.5	5	1	¥ 2,520 □
No.4-40UNC	CPCTUN4H	46	8	2.157 (100%)	2.385 (67%)	1.5	6.5	3	2.5	5	1	¥ 2,400 □
No.4-48UNF	CPCTUN4F	46	8	2.271 (100%)	2.458 (68%)	1.5	6.5	3	2.5	5	1	¥ 2,400 □
No.5-40UNC	CPCTUN5H	46	8.5	2.487 (100%)	2.697 (70%)	1.5	7	4	3.2	6	1	¥ 2,520 □
No.5-44UNF	CPCTUN5G	46	8.5	2.551 (100%)	2.74 (70%)	1.5	7	4	3.2	6	1	¥ 2,520 □
No.6-32UNC	CPCTUN6J	46	8.5	2.642 (100%)	2.895 (70%)	1.5	7	4	3.2	6	1	¥ 2,520 □
No.6-40UNF	CPCTUN6H	46	8.5	2.820 (100%)	3.022 (70%)	1.5	7	4	3.2	6	1	¥ 2,520 □
No.8-32UNC	CPCTUN8J	52	10.5	3.302 (100%)	3.530 (74%)	2.25	8.25	5	4	7	1	¥ 2,760 □
No.8-36UNF	CPCTUN8I	52	10.5	3.404 (100%)	3.606 (73%)	2.25	8.25	5	4	7	1	¥ 2,760 □
No.10-24UNC	CPCTUNAM	59.5	12.5	3.683 (100%)	3.962 (75%)	2.5	10	5.5	4.5	7	1	¥ 2,790 □
No.10-32UNF	CPCTUNAJ	59.5	12.5	3.963 (100%)	4.165 (77%)	2.5	10	5.5	4.5	7	1	¥ 2,790 □
No.12-24UNC	CPCTUNCM	59.5	12.5	4.344 (100%)	4.597 (78%)	2.5	10	5.5	4.5	7	1	¥ 3,000 □
No.12-28UNF	CPCTUNCK	59.5	12.5	4.496 (100%)	4.724 (78%)	2.5	10	5.5	4.5	7	1	¥ 3,000 □
1/4-20UNC	CPCTU04N	61.5	16.5	4.979 (100%)	5.257 (80%)	3.75	12.75	6	4.5	7	1	¥ 3,120 □
1/4-28UNF	CPCTU04K	61.5	16.5	5.36 (100%)	5.588 (78%)	3.75	12.75	6	4.5	7	1	¥ 3,120 □
5/16-18UNC	CPCTU05O	90	19.4	6.401 (100%)	6.731 (80%)	4.7	14.7	8	6.2	9	2	¥ 3,360 □
5/16-24UNF	CPCTU05M	90	19.4	6.782 (100%)	7.035 (80%)	4.7	14.7	8	6.2	9	2	¥ 3,360 □
3/8-16UNC	CPCTU06P	100	23.4	7.798 (100%)	8.153 (80%)	6.7	16.7	10	8	11	2	¥ 3,420 □
3/8-24UNF	CPCTU06M	100	23.4	8.382 (100%)	8.636 (78%)	6.7	16.7	10	8	11	2	¥ 3,420 □
7/16-14UNC	CPCTU07Q	110	27.4	9.144 (100%)	9.55 (80%)	7.7	19.7	12	9	12	2	¥ 3,480 □
7/16-20UNF	CPCTU07N	110	27.4	9.729 (100%)	10.033 (80%)	7.7	19.7	12	9	12	2	¥ 3,480 □
1/2-13UNC	CPCTU08R	110	27.4	10.592 (100%)	11.023 (80%)	7.7	19.7	12	9	12	2	¥ 3,720 □
1/2-20UNF	CPCTU08N	110	27.4	11.329 (100%)	11.607 (80%)	7.7	19.7	12	9	12	2	¥ 3,720 □

Spiral Fluted Taps
(for blind hole)

①

Spiral Fluted Taps
(for through hole)

②

Spiral Pointed Taps
(for through hole)

③

Hand Taps

④

Cemented
Carbide Taps

⑤

Roll Taps

⑥

Special Thread Taps
Simple Inspection Tools

⑦

Pipe Taps

⑧

Thread Mills
Premium Thread Mills

⑨

Dies

⑩

Center Drills
Centering Tools

⑪

Precision Machinery/
Medical Surgical Instruments

⑫

JIS

⑦-76

□=In stock at manufacturer.

Think threads with
YAMAWA

7 Special Thread Taps / Simple Inspection Tools

Overall length	Pin length	Bored hole dia. (GO)	Bored hole dia. (NOT-GO)	Bored hole depth (1.5D)	Bored hole depth (2D)	Bored hole depth (2.5D)	Shank dia.
L	ℓ	d_1	d_2	ℓ_1	ℓ_2	ℓ_3	Ds

JIS

① Spiral Fluted Taps
(for blind hole)

② Spiral Fluted Taps
(for through hole)

③ Spiral Pointed Taps
(for through hole)

④ Hand Taps

⑤ Cemented Carbide Taps

⑥ Roll Taps

⑦ Special Thread Taps
Simple Inspection Tools

⑧ Pipe Taps

⑨ Thread Mills
Premium Thread Mills

⑩ Dies

⑪ Center Drills
Centering Tools

⑫ Precision Machinery/
Medical Surgical Instruments

JIS

CPR-S

Check Pins for Bored Hole in Thread Form Tapping (Straight Type)

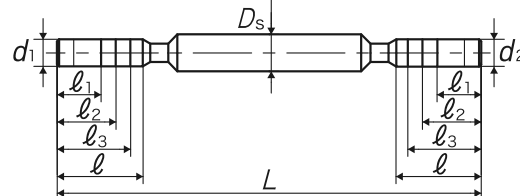


Specification

HSS

■CPR-S enables checking of several kinds of bored hole dia. and checking of depth of bored hole(for thread forming taps, straight type). CPR-S is made from wear resistant HSS material and is applicable for through hole and blind hole.

TYPE: 1



Segment : 7C

Size	Code	L (mm)	ℓ (mm)	d_1 (mm)	d_2 (mm)	ℓ_1 (mm)	ℓ_2 (mm)	ℓ_3 (mm)	Ds (mm)	TYPE	MSRP
For Metric Threads											
M2 × 0.4	CPRS2.0E	41.5	5.5	1.79	1.84	3	4	5	3	1	¥ 2,790 □
M2 × 0.25	CPRS2.0B	41.5	5.5	1.89	1.92	3	4	5	3	1	¥ 3,120 □
M2.5 × 0.45	CPRS2.5F	45	7.5	2.27	2.34	3.75	5	6.25	3	1	¥ 3,000 □
M2.5 × 0.35	CPRS2.5D	45	7.5	2.34	2.38	3.75	5	6.25	3	1	¥ 3,480 □
M2.6 × 0.45	CPRS2.6F	45	7.5	2.37	2.44	3.9	5.2	6.5	3	1	¥ 3,000 □
M3 × 0.5	CPRS3.0G	49	9	2.75	2.82	4.5	6	7.5	4	1	¥ 3,120 □
M3 × 0.35	CPRS3.0D	49	9	2.84	2.88	4.5	6	7.5	4	1	¥ 3,600 □
M3.5 × 0.6	CPRS3.5H	57	11	3.19	3.27	5.25	7	8.75	5	1	¥ 3,360 □
M3.5 × 0.35	CPRS3.5D	57	11	3.34	3.38	5.25	7	8.75	5	1	¥ 3,840 □
M4 × 0.7	CPRS4.0I	57	11	3.65	3.72	6	8	10	5	1	¥ 3,360 □
M4 × 0.5	CPRS4.0G	57	11	3.76	3.83	6	8	10	5	1	¥ 3,840 □
M5 × 0.8	CPRS5.0K	65	14	4.59	4.67	7.5	10	12.5	5.5	1	¥ 3,480 □
M5 × 0.5	CPRS5.0G	65	14	4.76	4.83	7.5	10	12.5	5.5	1	¥ 4,080 □
M6 × 1	CPRS6.0M	73	16.5	5.49	5.59	9	12	15	6	1	¥ 3,840 □
M6 × 0.75	CPRS6.0J	73	16.5	5.61	5.69	9	12	15	6	1	¥ 4,440 □
M7 × 1	CPRS7.0M	99	22	6.49	6.59	10.5	14	17.5	8	1	¥ 4,080 □
M7 × 0.75	CPRS7.0J	99	22	6.62	6.70	10.5	14	17.5	8	1	¥ 4,680 □
M8 × 1.25	CPRS8.0N	99	22	7.36	7.49	12	16	20	8	1	¥ 4,080 □
M8 × 1	CPRS8.0M	99	22	7.49	7.59	12	16	20	8	1	¥ 4,680 □
M8 × 0.75	CPRS8.0J	99	22	7.62	7.70	12	16	20	8	1	¥ 4,680 □
M10 × 1.5	CPRS010O	110	27.5	9.22	9.34	15	20	25	10	1	¥ 4,200 □
M10 × 1.25	CPRS010N	110	27.5	9.35	9.49	15	20	25	10	1	¥ 4,920 □
M10 × 1	CPRS010M	110	27.5	9.49	9.59	15	20	25	10	1	¥ 4,920 □
M12 × 1.75	CPRS012P	121	33	11.09	11.23	18	24	30	12	1	¥ 4,440 □
M12 × 1.5	CPRS012O	121	33	11.22	11.34	18	24	30	12	1	¥ 5,160 □

Think threads with
YAMAWA

□=In stock at manufacturer.

Overall length	Pin length	Bored hole dia. (G0)	Bored hole dia. (NOT-G0)	Bored hole depth (1.5D)	Bored hole depth (2D)	Bored hole depth (2.5D)	Shank dia.
L	ℓ	d ₁	d ₂	ℓ ₁	ℓ ₂	ℓ ₃	Ds

7

JIS

Size	Code	L (mm)	ℓ (mm)	d ₁ (mm)	d ₂ (mm)	ℓ ₁ (mm)	ℓ ₂ (mm)	ℓ ₃ (mm)	Ds (mm)	TYPE	MSRP
M12 × 1.25	CPRS012N	121	33	11.36	11.50	18	24	30	12	1	¥ 5,160 □
M12 × 1	CPRS012M	121	33	11.49	11.59	18	24	30	12	1	¥ 5,160 □
For Unified Threads											
No.2-56UNC	CPRSUN2E	41.5	5.5	1.96	2.04	3.3	4.4	5.5	3	1	¥ 3,240 □
No.2-64UNF	CPRSUN2D	41.5	5.5	1.98	2.06	3.3	4.4	5.5	3	1	¥ 3,240 □
No.3-48UNC	CPRSUN3F	45	7.5	2.25	2.35	3.8	5	6.3	3	1	¥ 3,480 □
No.3-56UNF	CPRSUN3E	45	7.5	2.29	2.37	3.8	5	6.3	3	1	¥ 3,480 □
No.4-40UNC	CPRSUN4H	49	9	2.54	2.64	4.3	5.7	7.1	4	1	¥ 3,600 □
No.4-48UNF	CPRSUN4F	49	9	2.59	2.68	4.3	5.7	7.1	4	1	¥ 3,600 □
No.5-40UNC	CPRSUN5H	49	9	2.87	2.97	4.8	6.4	7.9	4	1	¥ 3,720 □
No.5-44UNF	CPRSUN5G	49	9	2.90	2.99	4.8	6.4	7.9	4	1	¥ 3,720 □
No.6-32UNC	CPRSUN6J	57	11	3.11	3.22	5.3	7	8.8	5	1	¥ 3,840 □
No.6-40UNF	CPRSUN6H	57	11	3.19	3.29	5.3	7	8.8	5	1	¥ 3,840 □
No.8-32UNC	CPRSUN8J	57	11	3.78	3.89	6.3	8.3	10.4	5	1	¥ 3,960 □
No.8-36UNF	CPRSUN8I	57	11	3.81	3.91	6.3	8.3	10.4	5	1	¥ 3,960 □
No.10-24UNC	CPRSUNAM	65	14	4.30	4.44	7.2	9.7	12.1	5.5	1	¥ 4,080 □
No.10-32UNF	CPRSUNAJ	65	14	4.44	4.53	7.2	9.7	12.1	5.5	1	¥ 4,080 □
No.12-24UNC	CPRSUNCM	73	16.5	4.96	5.07	8.2	11	13.7	6	1	¥ 4,560 □
No.12-28UNF	CPRSUNCK	73	16.5	5.03	5.13	8.2	11	13.7	6	1	¥ 4,560 □
1/4-20UNC	CPRSU04N	73	16.5	5.73	5.86	9.5	12.7	15.9	6	1	¥ 4,680 □
1/4-28UNF	CPRSU04K	73	16.5	5.91	6.00	9.5	12.7	15.9	6	1	¥ 4,680 □
5/16-18UNC	CPRSU05O	99	22	7.23	7.38	12	16	20	8	1	¥ 4,800 □
5/16-24UNF	CPRSU05M	99	22	7.42	7.53	12	16	20	8	1	¥ 4,800 □
3/8-16UNC	CPRSU06P	110	27.5	8.72	8.89	14.3	19.1	23.8	10	1	¥ 5,040 □
3/8-24UNF	CPRSU06M	110	27.5	8.99	9.10	14.3	19.1	23.8	10	1	¥ 5,040 □
7/16-14UNC	CPRSU07Q	121	33	10.20	10.40	16.7	22.2	27.8	12	1	¥ 5,160 □
7/16-20UNF	CPRSU07N	121	33	10.48	10.62	16.7	22.2	27.8	12	1	¥ 5,160 □
1/2-13UNC	CPRSU08R	121	33	11.70	11.92	19.1	25.4	31.8	12	1	¥ 5,400 □
1/2-20UNF	CPRSU08N	121	33	12.06	12.20	19.1	25.4	31.8	12	1	¥ 5,400 □

Spiral Fluted Taps
(for blind hole)

①

Spiral Fluted Taps
(for through hole)

②

Spiral Pointed Taps
(for through hole)

③

Hand Taps

④

Cemented
Carbide Taps

⑤

Roll Taps

⑥

Special Thread Taps
Simple Inspection Tools

⑦

Pipe Taps

⑧

Thread Mills
Premium Thread Mills

⑨

Dies

⑩

Center Drills
Centering Tools

⑪

Precision Machinery/
Medical Surgical Instruments

⑫

JIS

⑦-78

□=In stock at manufacturer.

Think threads with
YAMAWA

7 Special Thread Taps / Simple Inspection Tools

JIS

① Spiral Fluted Taps
(for blind hole)

② Spiral Fluted Taps
(for through hole)

③ Spiral Pointed Taps
(for through hole)

④ Hand Taps

⑤ Cemented
Carbide Taps

⑥ Roll Taps

⑦ Special Thread Taps
Simple Inspection Tools

⑧ Pipe Taps

⑨ Thread Mills
Premium Thread Mills

⑩ Dies

⑪ Center Drills
Centering Tools

⑫ Precision Machinery/
Medical Surgical Instruments

JIS

⑦-79



CPR-T

Check Pins for Bored Holes in Thread Form Tapping (Taper Type)

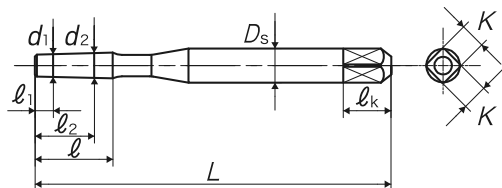


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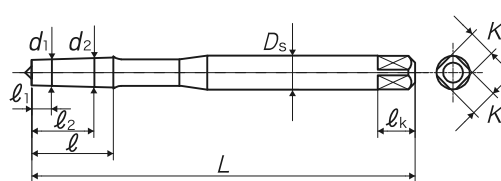
HSS

■ One CPR-T enables simple checking of bored hole dia. (for thread forming taps, taper type). CPR-T is made from wear resistant HSS material is applicable for through hole and for blind hole having enough space in the bottom.

TYPE:1



TYPE:2



Segment : 7C

Size	Code	L (mm)	ℓ (mm)	d ₁ (mm)	d ₂ (mm)	ℓ ₁ (mm)	ℓ ₂ (mm)	D _s (mm)	K (mm)	ℓ _k (mm)	TYPE	MSRP
For Metric Threads												
M2 × 0.4	CPRT2.0E	42	7	1.79	1.84	1	6	3	2.5	5	1	¥ 1,800 □
M2 × 0.25	CPRT2.0B	42	7	1.89	1.92	1	6	3	2.5	5	1	¥ 2,040 □
M2.5 × 0.45	CPRT2.5F	46	8	2.27	2.34	1.5	6.5	3	2.5	5	1	¥ 1,920 □
M2.5 × 0.35	CPRT2.5D	46	8	2.34	2.38	1.5	6.5	3	2.5	5	1	¥ 2,280 □
M2.6 × 0.45	CPRT2.6F	46	8	2.37	2.44	1.5	6.5	3	2.5	5	1	¥ 1,920 □
M3 × 0.5	CPRT3.0G	46	8.5	2.75	2.82	1.5	7	4	3.2	6	1	¥ 2,040 □
M3 × 0.35	CPRT3.0D	46	8.5	2.84	2.88	1.5	7	4	3.2	6	1	¥ 2,400 □
M3.5 × 0.6	CPRT3.5H	52	10.5	3.19	3.27	2.25	8.25	5	4	7	1	¥ 2,280 □
M3.5 × 0.35	CPRT3.5D	52	10.5	3.34	3.38	2.25	8.25	5	4	7	1	¥ 2,520 □
M4 × 0.7	CPRT4.0I	52	10.5	3.65	3.72	2.25	8.25	5	4	7	1	¥ 2,280 □
M4 × 0.5	CPRT4.0G	52	10.5	3.76	3.83	2.25	8.25	5	4	7	1	¥ 2,520 □
M5 × 0.8	CPRT5.0K	59.5	12.5	4.59	4.67	2.5	10	5.5	4.5	7	1	¥ 2,280 □
M5 × 0.5	CPRT5.0G	59.5	12.5	4.76	4.83	2.5	10	5.5	4.5	7	1	¥ 2,760 □
M6 × 1	CPRT6.0M	61.5	16.5	5.49	5.59	3.75	12.75	6	4.5	7	1	¥ 2,520 □
M6 × 0.75	CPRT6.0J	61.5	16.5	5.61	5.69	3.75	12.75	6	4.5	7	1	¥ 3,000 □
M7 × 1	CPRT7.0M	90	19.4	6.49	6.59	4.7	14.7	8	6.2	9	2	¥ 2,880 □
M7 × 0.75	CPRT7.0J	90	19.4	6.62	6.70	4.7	14.7	8	6.2	9	2	¥ 3,240 □
M8 × 1.25	CPRT8.0N	90	19.4	7.36	7.49	4.7	14.7	8	6.2	9	2	¥ 2,880 □
M8 × 1	CPRT8.0M	90	19.4	7.49	7.59	4.7	14.7	8	6.2	9	2	¥ 3,240 □
M8 × 0.75	CPRT8.0J	90	19.4	7.62	7.70	4.7	14.7	8	6.2	9	2	¥ 3,240 □
M10 × 1.5	CPRT10.0O	100	23.4	9.22	9.34	6.7	16.7	10	8	11	2	¥ 2,880 □
M10 × 1.25	CPRT10.0N	100	23.4	9.35	9.49	6.7	16.7	10	8	11	2	¥ 3,360 □
M10 × 1	CPRT10.0M	100	23.4	9.49	9.59	6.7	16.7	10	8	11	2	¥ 3,360 □
M12 × 1.75	CPRT12.0P	110	27.4	11.09	11.23	7.7	19.7	12	9	12	2	¥ 3,000 □
M12 × 1.5	CPRT12.0O	110	27.4	11.22	11.34	7.7	19.7	12	9	12	2	¥ 3,480 □

Think threads with
YAMAWA

□=In stock at manufacturer.

Overall length	Pin length	Bored hole dia. (G0)	Bored hole dia. (NOT-G0)	d ₁ length	d ₂ length	Shank dia.	Size of square	Length of square
L	ℓ	d ₁	d ₂	ℓ ₁	ℓ ₂	Ds	K	ℓk

Size	Code	L (mm)	ℓ (mm)	d ₁ (mm)	d ₂ (mm)	ℓ ₁ (mm)	ℓ ₂ (mm)	Ds (mm)	K (mm)	ℓk (mm)	TYPE	MSRP
M12 × 1.25	CPRT012N	110	27.4	11.36	11.50	7.7	19.7	12	9	12	2	¥ 3,480 □
M12 × 1	CPRT012M	110	27.4	11.49	11.59	7.7	19.7	12	9	12	2	¥ 3,480 □
For Unified Threads												
No.2-56UNC	CPRTUN2E	46	8	1.96	2.04	1.5	6.5	3	2.5	5	1	¥ 2,160 □
No.2-64UNF	CPRTUN2D	46	8	1.98	2.06	1.5	6.5	3	2.5	5	1	¥ 2,160 □
No.3-48UNC	CPRTUN3F	46	8	2.25	2.35	1.5	6.5	3	2.5	5	1	¥ 2,520 □
No.3-56UNF	CPRTUN3E	46	8	2.29	2.37	1.5	6.5	3	2.5	5	1	¥ 2,520 □
No.4-40UNC	CPRTUN4H	46	8.5	2.54	2.64	1.5	7	4	3.2	6	1	¥ 2,400 □
No.4-48UNF	CPRTUN4F	46	8.5	2.59	2.68	1.5	7	4	3.2	6	1	¥ 2,400 □
No.5-40UNC	CPRTUN5H	46	8.5	2.87	2.97	1.5	7	4	3.2	6	1	¥ 2,520 □
No.5-44UNF	CPRTUN5G	46	8.5	2.90	2.99	1.5	7	4	3.2	6	1	¥ 2,520 □
No.6-32UNC	CPRTUN6J	52	10.5	3.11	3.22	2.25	8.25	5	4	7	1	¥ 2,520 □
No.6-40UNF	CPRTUN6H	52	10.5	3.19	3.29	2.25	8.25	5	4	7	1	¥ 2,520 □
No.8-32UNC	CPRTUN8J	52	10.5	3.78	3.89	2.25	8.25	5	4	7	1	¥ 2,760 □
No.8-36UNF	CPRTUN8I	52	10.5	3.81	3.91	2.25	8.25	5	4	7	1	¥ 2,760 □
No.10-24UNC	CPRTUNAM	59.5	12.5	4.30	4.44	2.5	10	5.5	4.5	7	1	¥ 2,790 □
No.10-32UNF	CPRTUNAJ	59.5	12.5	4.44	4.53	2.5	10	5.5	4.5	7	1	¥ 2,790 □
No.12-24UNC	CPRTUNCM	61.5	16.5	4.96	5.07	3.75	12.75	6	4.5	7	1	¥ 3,000 □
No.12-28UNF	CPRTUNCK	61.5	16.5	5.03	5.13	3.75	12.75	6	4.5	7	1	¥ 3,000 □
1/4-20UNC	CPRTU04N	61.5	16.5	5.73	5.86	3.75	12.75	6	4.5	7	1	¥ 3,120 □
1/4-28UNF	CPRTU04K	61.5	16.5	5.91	6.00	3.75	12.75	6	4.5	7	1	¥ 3,120 □
5/16-18UNC	CPRTU05O	90	19.4	7.23	7.38	4.7	14.7	8	6.2	9	2	¥ 3,360 □
5/16-24UNF	CPRTU05M	90	19.4	7.42	7.53	4.7	14.7	8	6.2	9	2	¥ 3,360 □
3/8-16UNC	CPRTU06P	100	23.4	8.72	8.89	6.7	16.7	10	8	11	2	¥ 3,420 □
3/8-24UNF	CPRTU06M	100	23.4	8.99	9.10	6.7	16.7	10	8	11	2	¥ 3,420 □
7/16-14UNC	CPRTU07Q	110	27.4	10.20	10.40	7.7	19.7	12	9	12	2	¥ 3,480 □
7/16-20UNF	CPRTU07N	110	27.4	10.48	10.62	7.7	19.7	12	9	12	2	¥ 3,480 □
1/2-13UNC	CPRTU08R	110	27.4	11.70	11.92	7.7	19.7	12	9	12	2	¥ 3,720 □
1/2-20UNF	CPRTU08N	110	27.4	12.06	12.20	7.7	19.7	12	9	12	2	¥ 3,720 □

Spiral Fluted Taps
(for blind hole) ①

Spiral Fluted Taps
(for through hole) ②

Spiral Pointed Taps
(for through hole) ③

Hand Taps ④

Cemented Carbide Taps ⑤

Roll Taps ⑥

Special Thread Taps
Simple Inspection Tools ⑦

Pipe Taps ⑧

Thread Mills
Premium Thread Mills ⑨

Dies ⑩

Center Drills
Centering Tools ⑪

Precision Machinery/
Medical Surgical Instruments ⑫

7 Special Thread Taps / Simple Inspection Tools

Overall length	Pin length	Bore hole dia. (Thread engagement 90%)	Bore hole dia. (Thread engagement 75%)	Bore hole dia. (Thread engagement 60%)	d ₁ length	d ₂ length	d ₃ length	Shank dia.
L	ℓ	d ₁	d ₂	d ₃	ℓ ₁	ℓ ₂	ℓ ₃	Ds

JIS

① Spiral Fluted Taps
(for blind hole)

② Spiral Fluted Taps
(for through hole)

③ Spiral Pointed Taps
(for through hole)

④ Hand Taps

⑤ Cemented Carbide Taps

⑥ Roll Taps

⑦ Special Thread Taps
Simple Inspection Tools

⑧ Pipe Taps

⑨ Thread Mills
Premium Thread Mills

⑩ Dies

⑪ Center Drills
Centering Tools

⑫ Precision Machinery/
Medical Surgical Instruments

JIS

⑦-81

CPR-Y

Check-Pins for Bored Holes in Thread Form Tapping for R-Y Taps.

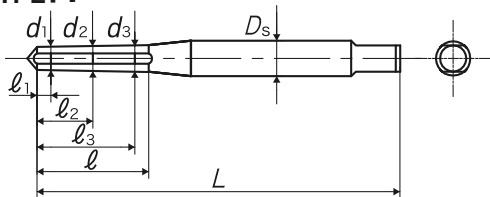


Specification

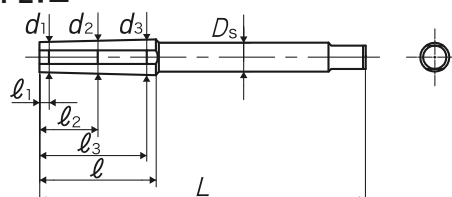
HSS

■ Check pin for R-Y is the pin to check the bored hole dia. for R-Y forming taps.

TYPE:1



TYPE:2



Segment : 1J

Size	Code	L (mm)	ℓ (mm)	d ₁ Thread engagement ratio 90%	d ₂ Thread engagement ratio 75%	d ₃ Thread engagement ratio 60%	ℓ ₁ (mm)	ℓ ₂ (mm)	ℓ ₃ (mm)	Ds (mm)	TYPE	MSRP
For Metric Threads												
M2	CPRY2.0E	42	9	1.83	1.86	1.89	1.5	4.5	7.5	3	1	¥ 1,350 □
M2.5	CPRY2.5F	44	10	2.31	2.34	2.37	2	5	8	3	1	¥ 960 □
M2.6	CPRY2.6F	44	10	2.41	2.44	2.47	2	5	8	3	1	¥ 900 □
M3	CPRY3.0G	46	13	2.78	2.83	2.87	2	6.5	11	4	1	¥ 860 □
M4	CPRY4.0I	52	16	3.69	3.75	3.81	2	8	14	5	1	¥ 810 □
M5	CPRY5.0K	60	16	4.65	4.71	4.77	2	8	14	5.5	1	¥ 840 □
M6	CPRY6.0M	62	19	5.55	5.63	5.70	2	9.5	17	6	1	¥ 890 □
M8	CPRY8.0N	70	25	7.42	7.53	7.63	2	12.5	23	6.2	2	¥ 1,320 □

※ Please use CPR-Y for controlling bored holes for R-Y taps.

Think threads with
YAMAWA

□=In stock at manufacturer.

M E M O

Spiral Fluted Taps
(for blind hole) ①Spiral Fluted Taps
(for through hole) ②Spiral Pointed Taps
(for through hole) ③

Hand Taps ④

Cemented
Carbide Taps ⑤

Roll Taps ⑥

Special Thread Taps
Simple Inspection Tools ⑦

Pipe Taps ⑧

Thread Mills
Premium Thread Mills ⑨

Dies ⑩

Center Drills
Centering Tools ⑪Precision Machinery/
Medical Surgical Instruments ⑫

7 Special Thread Taps / Simple Inspection Tools

—	—	Shank dia.	Overall length	Size of square	Length of square
L	D	Ds	ℓ	K	ℓk

JIS

① Spiral Fluted Taps
(for blind hole)

② Spiral Fluted Taps
(for through hole)

③ Spiral Pointed Taps
(for through hole)

④ Hand Taps

⑤ Cemented Carbide Taps

⑥ Roll Taps

⑦ Special Thread Taps
Simple Inspection Tools

⑧ Pipe Taps

⑨ Thread Mills
Premium Thread Mills

⑩ Dies

⑪ Center Drills
Centering Tools

⑫ Precision Machinery/
Medical Surgical Instruments

JIS

SA Shank Adjusters

Specification

Alloy steel

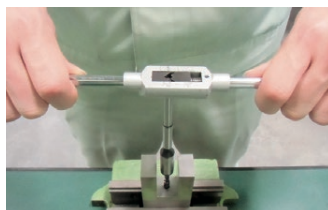


Product Features

- I series tap (IHT / ISP / IPO) can be installed with one motion. The total length can be extended to 150mm. It is now possible to reach deeper into workpieces with a standard tap with obstructions.



- It can be easily used for hand-drilling or a drilling machine.
- * It is not suitable for high-speed rotation or continuous processing.

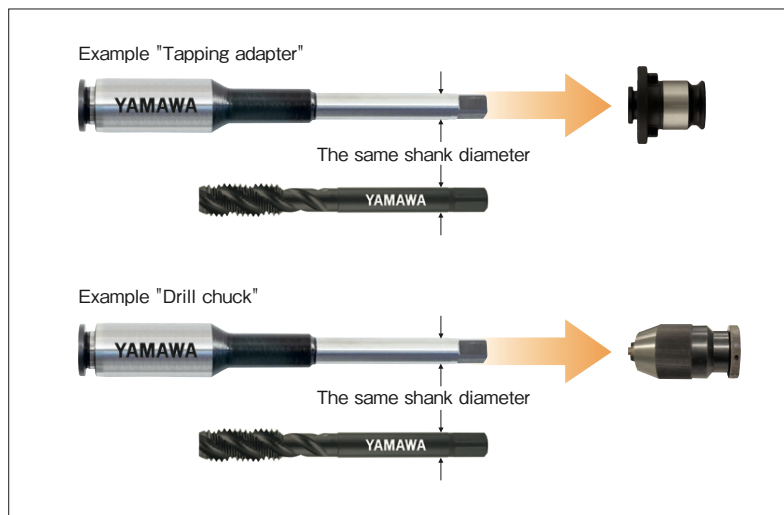


Hand drilling



Drilling machine

- The shank diameter of the shank adjuster is the same size as the shank diameter of the tap thus it can be installed in your tap holder.
- * It can be attached to a drill chuck for drill machines.



JIS

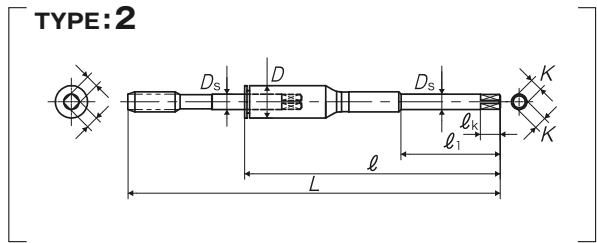
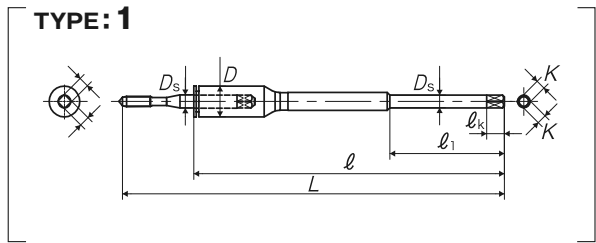
⑦-83

Think threads with
YAMAWA

—	—	Shank dia.	Overall length	Size of square	Length of square
L	D	Ds	ℓ	K	ℓ_k

7

JIS



Segment : 5A

Size	Code	L (mm)	D (mm)	Ds (mm)	ℓ (mm)	ℓ_1 (mm)	K (mm)	ℓ_k (mm)	TYPE	MSRP
M3-150	SA3.0M	150	11	4	127	45	3.2	6	1	¥ 21,200 □
M4-150	SA4.0M	150	12	5	122	45	4	7	1	¥ 21,700 □
M5-150	SA5.0M	150	12.5	5.5	114	45	4.5	7	1	¥ 21,800 □
M6-150	SA6.0M	150	13	6	115	45	4.5	7	1	¥ 22,400 □
M8-150	SA8.0M	150	13	6.2	108	45	5	8	2	¥ 22,500 □
M10-150	SA010M	150	14	7	103	45	5.5	8	2	¥ 23,400 □

• By using SA, you can lengthen your I series taps and standard taps.

(For ISP, refer to product page ①-63.)

(For IPO, refer to product page ③-41.)

(For IHT, refer to product page ④-53.)

Spiral Fluted Taps
(for blind hole) ①

Spiral Fluted Taps
(for through hole) ②

Spiral Pointed Taps
(for through hole) ③

Hand Taps ④

Cemented
Carbide Taps ⑤

Roll Taps ⑥

Special Thread Taps
Simple Inspection Tools ⑦

Pipe Taps ⑧

Thread Mills
Premium Thread Mills ⑨

Dies ⑩

Center Drills
Centering Tools ⑪

Precision Machinery/
Medical Surgical Instruments ⑫

JIS

⑦-84

Think threads with
YAMAWA

□=In stock at manufacturer.

7 Special Thread Taps / Simple Inspection Tools

Drill dia.	Overall length	Shank dia.	Thread + Neck length
Dc	L	Ds	ℓn

JIS

① Spiral Fluted Taps
(for blind hole)

② Spiral Fluted Taps
(for through hole)

③ Spiral Pointed Taps
(for through hole)

④ Hand Taps

⑤ Cemented Carbide Taps

⑥ Roll Taps

⑦ Special Thread Taps
Simple Inspection Tools

⑧ Pipe Taps

⑨ Thread Mills
Premium Thread Mills

⑩ Dies

⑪ Center Drills
Centering Tools

⑫ Precision Machinery/
Medical Surgical Instruments

JIS

ITRD

Broken Tap Removal Tools



Specification

HF

Coating

Product Features

- The unique cutting edge shape is adopted so that a broken high-hardness cutting tap can be removed. The tap can be removed by drilling a hole in its center.
- Wear resistance of the tool is improved by special coating and ultra micro grain cemented carbide resistant to machining the high-hardness HSS tap.

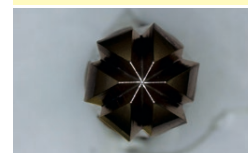
Machining case 1 (for spiral fluted taps)

Machining conditions

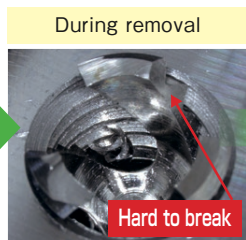
Tap	SP M12×1.75
Workpiece Material	S50C
Tool	ITRD Dc8.5
Revolution Speed	450min ⁻¹
Feed Speed	3mm/min (in 0.3 mm steps)

Machining Depth	15mm
Machine	MC BT40, vertical type
Cutting Fluid	Water soluble cutting fluid, (x20)
Internal Thread Accuracy	Gauge OK (after retapping)

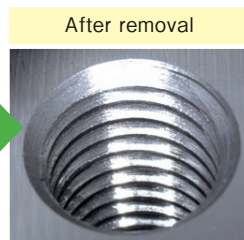
Tool condition



Before removal



During removal



After removal

Fragments of removed tap



For a tap with spiral flutes, such as a spiral fluted tap, since lands of the tap are coiled around the internal thread, the tap does not move easily even during removal and its fragments does not come out easily on the way. Therefore, ITRD is most suitable for the removal of spiral fluted taps (35° or more of helix angle).

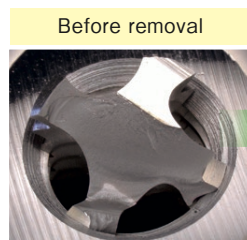
Machining case 2 (for hand taps or spiral pointed taps)

Machining conditions ITRD Dc-8.5

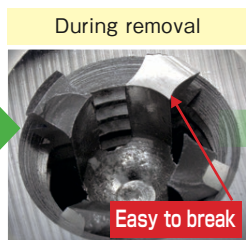
Tap	HT M12×1.5
Workpiece Material	SCM440
Revolution Speed	460min ⁻¹
Feed Speed	3mm/min (in 0.3 mm steps)

Machining Depth	12mm
Used Machine	MC, vertical type
Cutting Fluid	Water soluble cutting fluid, (x20)

Tool condition



Before removal



During removal



After removal

Fragments of removed tap



Remarks: For a tap with straight flutes, such as a hand tap or a spiral pointed tap, deeper machining causes lands of the tap to bend more easily, and its fragments to come out easily. Therefore, if any tap fragments come out with unusual sound during removal, stop machining and remove the fragments with a scriber or the like. While doing so, proceed with machining carefully.

JIS

⑦-85

Think threads with
YAMAWA

Drill dia.	Overall length	Shank dia.	Thread + Neck length
Dc	L	Ds	ℓn

7

JIS

Removable taps and machining conditions

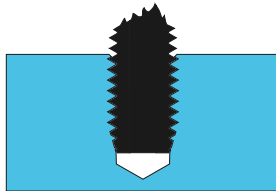
Cutting Edge Dia. Dc (mm)	Removable Tap			Revolution Speed (min ⁻¹)	Feed Speed (mm/min)	G73 Steps (mm)
	SP	PO	HT			
6.0	M8-M10	M8	M10	550 ~ 650	2 ~ 4	0.2 ~ 0.4
7.0	M10-M12	M10	M12	450 ~ 550		
8.5	M12-M14-M16	M12	M12-M14	400 ~ 500		

• This is most suitable for the removal of spiral fluted taps (with helix angle of 35° or more).
Please see "Machining case 1" <for spiral fluted taps> on the pre-page.

Removal procedure

1

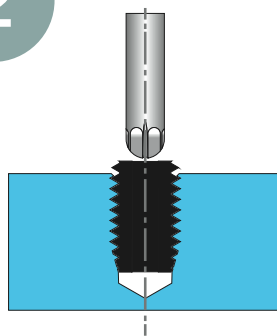
Flatten with grinder!



A tap is broken. Before starting removal, flatten the broken part of the tap with a grinder or the like as far as possible.

Remarks: Machining with the part left broken will cause the removal tool to become chipped.

2



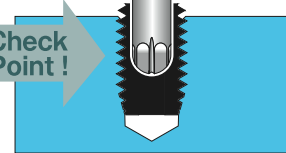
Select a cutting edge diameter suitable for the removable tap, firmly attach the tool and workpiece to MC, and set the removing tool to the center of the broken tap.

3

More fragments for spiral pointed taps or hand taps



Check Point !



Supplying enough water-soluble cutting oil, perform machining carefully in steps of G73.

※ For G73, please see "Notes" on the next page.

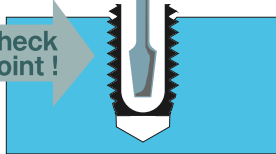
Remarks: If any tap fragments come out with unusual sound during machining, stop work and remove the fragments with a scriber or the like. For PO and HT in particular, proceeding with machining by force will cause the removing tool to be broken by the fragments caught in it.

4

Crack on far side

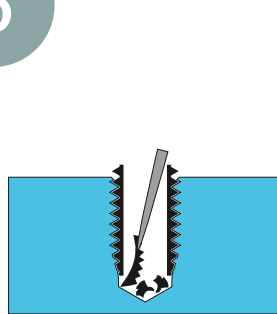


Check Point !



You will hear unusual sound when the removing tool goes through the tap. Stop feeding it. A crack is found on the far side of the hole, where the tap is cut off. Proceeding with machining by force will cause the tool to be broken by the fragments caught in it. Move the removal tool to a safe place, and remove the fragments with a chisel and a punch.

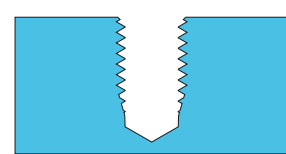
5



When machining is finished, remove the remainder of the tap with a scriber or the like.

6

OK!



The procedure is complete. If necessary, deburr the internal thread again with a tap.

• To eject sludge during machining, water-soluble cutting oil is recommended.



You can also see it from the video site on the left.

Think threads with
YAMAWA

Spiral Fluted Taps
(for blind hole)

①

Spiral Fluted Taps
(for through hole)

②

Spiral Pointed Taps
(for through hole)

③

Hand Taps

④

Cemented
Carbide Taps

⑤

Roll Taps

⑥

Special Thread Taps
Simple Inspection tools

⑦

Pipe Taps

⑧

Thread Mills
Premium Thread Mills

⑨

Dies

⑩

Center Drills
Centering Tools

⑪

Precision Machinery/
Medical Surgical Instruments

⑫

JIS

⑦-86

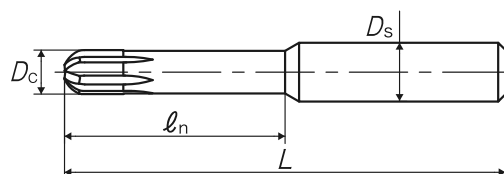
7 Special Thread Taps / Simple Inspection Tools

Drill dia.	Overall length	Shank dia.	Neck length
Dc	L	Ds	ℓn

JIS

ITRD Broken Tap Removal Tools

TYPE: 1



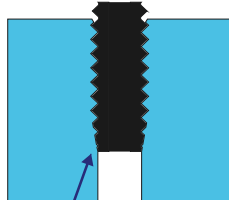
Segment : 52

Size Dc × Ds × L	Code	Dc (mm)	L (mm)	Ds (mm)	ℓn (mm)	TYPE	MSRP
For Metric Threads							
6 × 8 × 60	ITZ6.00ZPWSI	6	60	8	30	1	¥ 28,700 □
7 × 8 × 70	ITZ7.00ZPWSI	7	70	8	35	1	¥ 34,700 □
8.5 × 10 × 75	ITZ8.50ZPWSJ	8.5	75	10	40	1	¥ 42,500 □

Notes

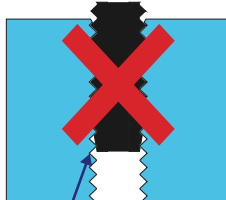
- Compatible machines include vertical type MC, NC, and milling machines. It cannot be used with a drilling machine.
- The depth of the tap to remove is 1.5D or less for spiral fluted taps or 1D or less for spiral pointed taps and hand taps.
- Use a machine and tooling that have high stiffness. In addition, supply enough water-soluble cutting oil.
- Although it is possible to remove a tap broken in forward tapping, ITRD cannot remove a tap broken in reverse tapping because the tap revolves and moves during removal.
- The recommended material of workpiece is steel, which is high in cutting torque. For a soft material, such as aluminum, it is not possible to remove because the tap revolves and moves during removal.

[Broken during forward tapping motion]



The tap is fixed because there are no internal thread ridges. The tap will not revolve even if machining load is applied during removal.

[Broken during reverse tapping motion or soft material]

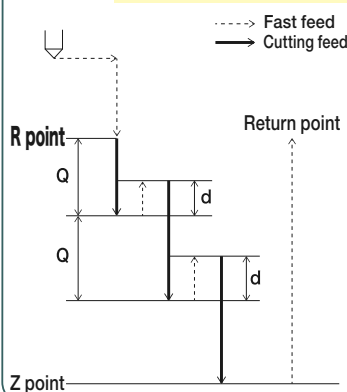


The tap is not fixed because there are some internal thread ridges. Therefore, the tap revolves and moves during removal. It cannot be machined.



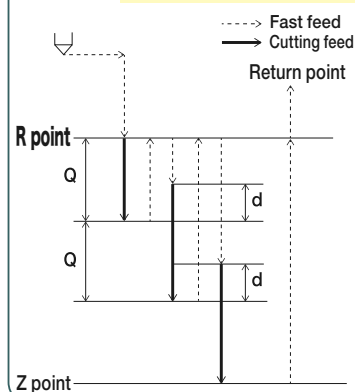
G73

(Does not return to point R)



G83

(Return to point R)



Remarks: The internal threads may be broken after using the ITRD. Therefore, there is no guarantee of the internal thread quality after the tap removal.

Notes on use

- ◆ Use a cover and wear safety goggles, because there is a danger of damage.
- ◆ Observe the proper cutting conditions, because there is a danger of damage.
- ◆ Never wear gloves while the tool is revolving, because they might get caught.
- ◆ Wear safety shoes, because your foot might get injured by a falling tool.

- ◆ When attaching the tool to a machine, fix it firmly so that there is no rattle or runout.
- ◆ Fix the workpiece firmly so that it does not move during machining. Do not use a tool showing signs of severe wear or with chipping on cutting edges.
- ◆ Be sure to take disaster prevention measures, because there is a danger of fire due to possible high temperature and heat generated during cutting.