

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

HT TRI

Hand Taps for Tripod Threads



Specification

HSS

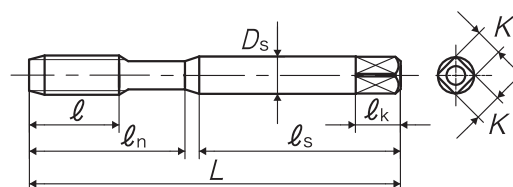


■ Hand Tap for camera tripod threads. Its thread size is oversized.

Tapping Speeds depending on Materials

Brass 黄銅	Brass castings 黄銅鑄物	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 (m/min)	~10 (m/min)	~10 (m/min)	~10 (m/min)	~10 (m/min)

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 (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

