

Overall length	Thread length	Thread + Neck length	Shank length	Shank dia.	Size of square	Length of square
L	ℓ	ℓ <sub>n</sub>	ℓ <sub>s</sub>	D <sub>s</sub>	K	ℓ <sub>k</sub>

- 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



## AL-PO STI



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

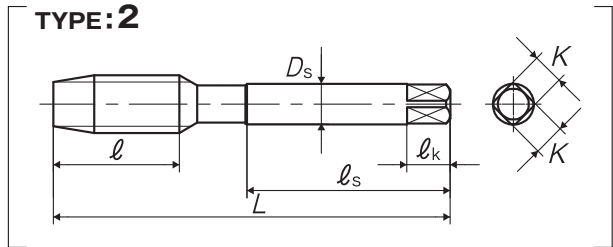
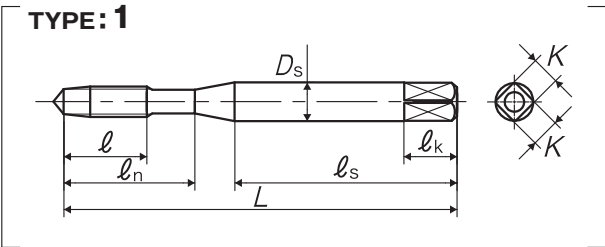
### Specification



- 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.

### 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)



Segment : 1E

Size	Class	Code	Chamfer	Basic major dia (mm)	L (mm)	ℓ (mm)	ℓ <sub>n</sub> (mm)	ℓ <sub>s</sub> (mm)	D <sub>s</sub> (mm)	K (mm)	ℓ <sub>k</sub> (mm)	No. of flutes	TYPE	MSRP
For Metric Threads														
M3 × 0.5	Ib	PW3.0G1LEB	5P	3.650	52	7.5	17	29	5	4	7	3	1	¥ 2,800 <sup>※</sup>
M4 × 0.7	Ib	PW4.0I1LEB	5P	4.909	60	13	22	33	5.5	4.5	7	3	1	¥ 2,660 <sup>※</sup>
M5 × 0.8	Ib	PW5.0K1LEB	5P	6.039	62	15	26	33	6	4.5	7	3	1	¥ 2,550 <sup>※</sup>
M6 × 1	Ib	PW6.0M1LEB	5P	7.299	70	19	-	36	6.2	5	8	3	2	¥ 2,650 <sup>※</sup>
M8 × 1.25	Ib	PW8.0N1LEB	5P	9.624	75	23	-	38	7	5.5	8	3	2	¥ 3,720 <sup>※</sup>
M10 × 1.5	Ib	PW10.0I1LEB	5P	11.948	82	26	-	42	8.5	6.5	9	3	2	¥ 4,990 <sup>※</sup>
M12 × 1.75	Ib	PW12.0P1LEB	5P	14.273	95	26	-	48	12.5	10	13	3	2	¥ 6,860 <sup>※</sup>