

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>

# S

# JIS

## PM-PO

### Spiral Pointed Taps for Hard-to-Machine Materials



#### Specification

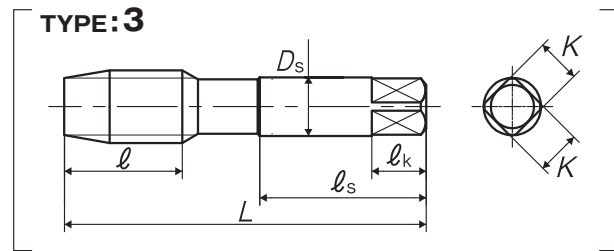
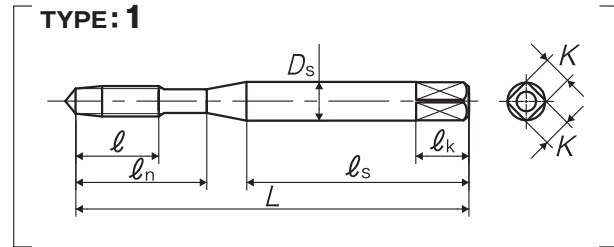
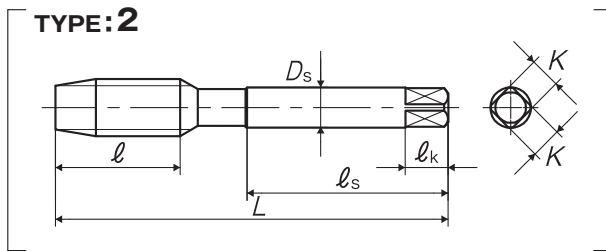


■Spiral pointed tap suitable for high hardness steels of 25~45HRC such as forgings and thermal refined steels of high carbon steels and alloy steels, and die steel. Through hole use.

#### Tapping Speeds depending on Materials

High carbon steels 高炭素鋼 <b>5~10</b> (m/min)	Thermal refined steels 調質鋼 <b>5~10</b> (m/min) 25~35HRC	Thermal refined steels 調質鋼 <b>~5</b> (m/min) 35~45HRC
--	---	---

Segment : 1F



Size	Class	Code	Chamfer	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	P3	PY3.0GRDPB	5.5P	46	9	14	26	4	3.2	6	3	1	¥ 1,770 ※
M4 × 0.7	P3	PY4.0IRDPA	5.5P	52	11	17	29	5	4	7	3	1	¥ 1,770 ※
M5 × 0.8	P3	PY5.0KRDPB	5.5P	60	13	22	33	5.5	4.5	7	3	1	¥ 1,780 ※
M6 × 1	P3	PY6.0MRDPB	5.5P	62	15	26	33	6	4.5	7	3	1	¥ 1,960 ※
M8 × 1.25	P4	PY8.0NSDPB	5.5P	70	19	-	36	6.2	5	8	3	2	¥ 2,690 ※
M10 × 1.5	P4	PY10.0SDPB	5.5P	75	23	-	38	7	5.5	8	3	2	¥ 3,420 ※
M10 × 1.25	P4	PY10.1NSDPB	5.5P	75	23	-	38	7	5.5	8	3	2	¥ 3,420 ※
M12 × 1.75	P4	PY12.1PSDPB	5.5P	82	26	-	42	8.5	6.5	9	3	2	¥ 4,850 ※
M12 × 1.5	P4	PY12.0SDPB	5.5P	82	26	-	42	8.5	6.5	9	3	2	¥ 4,850 ※
M12 × 1.25	P4	PY12.2NSDPB	5.5P	82	26	-	42	8.5	6.5	9	3	2	¥ 4,850 ※
M14 × 2	P5	PY14.1QTDPB	5.5P	88	26	-	45	10.5	8	11	3	2	¥ 6,610 ※
M14 × 1.5	P4	PY14.0SDPB	5.5P	88	26	-	45	10.5	8	11	3	2	¥ 6,610 ※
M16 × 2	P5	PY16.1QTDPB	5.5P	95	26	-	48	12.5	10	13	3	2	¥ 8,840 ※
M16 × 1.5	P4	PY16.0SDPB	5.5P	95	26	-	48	12.5	10	13	3	2	¥ 8,840 ※
M18 × 2.5	P5	PY18.1RTDPB	5.5P	100	33	-	51	14	11	14	3	2	¥ 11,900 ※
M18 × 1.5	P4	PY18.0SDPB	5.5P	100	33	-	51	14	11	14	3	2	¥ 11,900 ※
M20 × 2.5	P5	PY20.1RTDPB	5.5P	105	33	-	50	15	12	15	3	3	¥ 16,100 ※

※ = Specified Distribution Items. Made to order products.

# 3 Spiral Pointed Tap Series for through hole

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

- 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

## PM-PO Spiral Pointed Taps for Hard-to-Machine Materials

Size	Class	Code	Chamfer	L (mm)	ℓ (mm)	ℓn (mm)	ℓs (mm)	Ds (mm)	K (mm)	ℓk (mm)	No. of flutes	TYPE	MSRP
M20 × 1.5	P4	PY020OSDPB	5.5P	105	33	-	50	15	12	15	3	3	¥ 16,100*
M22 × 2.5	P5	PY022RTDPB	5.5P	115	33	-	55	17	13	16	3	3	¥ 20,600*
M22 × 1.5	P4	PY022OSDPB	5.5P	115	33	-	55	17	13	16	3	3	¥ 20,600*
M24 × 3	P5	PY024STDPB	5.5P	120	39	-	55	19	15	18	3	3	¥ 25,700*
M24 × 1.5	P4	PY024OSDPB	5.5P	120	39	-	55	19	15	18	3	3	¥ 25,700*
M27 × 3	P5	PY027STDPB	5.5P	130	39	-	60	20	15	18	4	3	¥ 35,700*
M27 × 1.5	P4	PY027OSDPB	5.5P	130	39	-	60	20	15	18	4	3	¥ 35,700*
M30 × 3.5	P5	PY030TTDPB	5.5P	135	46	-	62	23	17	20	4	3	¥ 45,500*
M30 × 1.5	P4	PY030OSDPB	5.5P	135	46	-	62	23	17	20	4	3	¥ 45,500*
For Unified Threads													
No.6-32UNC	P2	PYUN6JQDPB	5.5P	52	11	17	27	5	4	7	2	1	¥ 2,080*
No.6-40UNF	P2	PYUN6HQDPB	5.5P	52	11	17	27	5	4	7	2	1	¥ 2,080*
No.8-32UNC	P2	PYUN8JQDPB	5.5P	60	13	22	31	5.5	4.5	7	2	1	¥ 2,090*
No.8-36UNF	P2	PYUN8IQDPB	5.5P	60	13	22	31	5.5	4.5	7	2	1	¥ 2,090*
No.10-24UNC	P2	PYUNAMQDPB	5.5P	60	13	22	32	5.5	4.5	7	2	1	¥ 2,090*
No.10-32UNF	P2	PYUNAJQDPB	5.5P	60	13	22	32	5.5	4.5	7	2	1	¥ 2,090*
No.12-24UNC	P2	PYUNCMQDPB	5.5P	62	15	26	32	6	4.5	7	2	1	¥ 2,240*
No.12-28UNF	P2	PYUNCKQDPB	5.5P	62	15	26	32	6	4.5	7	2	1	¥ 2,240*
1/4-20UNC	P3	PYU04NRDPB	5.5P	62	15	26	33	6	4.5	7	3	1	¥ 2,240*
1/4-28UNF	P3	PYU04KRDPB	5.5P	62	15	26	33	6	4.5	7	3	1	¥ 2,240*
5/16-18UNC	P3	PYU05ORDPB	5.5P	70	19	-	36	6.2	5	8	3	2	¥ 3,100*
5/16-24UNF	P3	PYU05MRDPB	5.5P	70	19	-	36	6.2	5	8	3	2	¥ 3,100*
3/8-16UNC	P4	PYU06PSDPB	5.5P	75	23	-	38	7	5.5	8	3	2	¥ 3,970*
3/8-24UNF	P3	PYU06MRDPB	5.5P	75	23	-	38	7	5.5	8	3	2	¥ 3,970*
7/16-14UNC	P4	PYU07QSDPB	5.5P	82	26	-	42	8.5	6.5	9	3	2	¥ 5,590*
7/16-20UNF	P3	PYU07NRDPB	5.5P	82	26	-	42	8.5	6.5	9	3	2	¥ 5,590*
1/2-13UNC	P4	PYU08RSDPB	5.5P	88	26	-	45	10.5	8	11	3	2	¥ 5,930*
1/2-20UNF	P4	PYU08NSDPB	5.5P	88	26	-	45	10.5	8	11	3	2	¥ 5,930*
9/16-12UNC	P4	PYU09SSDPB	5.5P	95	26	-	48	12.5	10	13	3	2	¥ 8,840*
9/16-18UNF	P4	PYU09OSDPB	5.5P	95	26	-	48	12.5	10	13	3	2	¥ 8,840*
5/8-11UNC	P5	PYU10UTDPB	5.5P	95	26	-	48	12.5	10	13	3	2	¥ 8,840*
5/8-18UNF	P4	PYU10OSDPB	5.5P	95	26	-	48	12.5	10	13	3	2	¥ 8,840*
3/4-10UNC	P5	PYU12VTDPB	5.5P	105	33	-	50	15	12	15	3	3	¥ 16,100*
3/4-16UNF	P4	PYU12PSDPB	5.5P	105	33	-	50	15	12	15	3	3	¥ 16,100*
7/8-9UNC	P5	PYU14WTDPB	5.5P	115	33	-	55	17	13	16	3	3	¥ 22,700*
7/8-14UNF	P4	PYU14QSDPB	5.5P	115	33	-	55	17	13	16	3	3	¥ 22,700*
1 -8UNC	P6	PYU16XUDPB	5.5P	125	39	-	58	19	15	18	3	3	¥ 33,200*
1 -12UNF	P5	PYU16STDPB	5.5P	125	39	-	58	19	15	18	3	3	¥ 33,200*



\* = Specified Distribution Items. Made to order products.