

 Overall length
 Thread length
 Thread length
 Shank length
 Shank dia.
 Size of square
 Length of square

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## JIS

Spiral Fluted Taps

Spiral Fluted Taps

Spiral Pointed Taps (for through hole)

Cemented Carbide Tans

(9) Roll Taps

Special Thread Tap

8 Pina Tan

6 Thread Mills

10

Center Drills

Precision Machinery/

PL<sub>1</sub>

Hand Taps for Thermosetting



**Specification** 











**Tapping Speeds depending on Materials** 



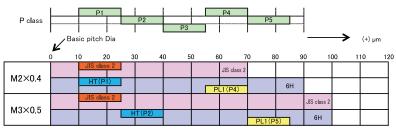
## **Product Features**

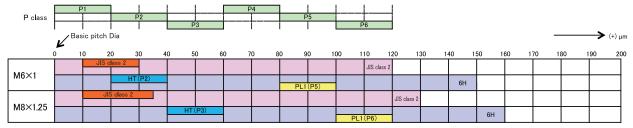
●The PL1 is a tap for threading thermosetting resin that is exceptionally difficult to machine among the synthetic resin.

These plastics have low thermal conductivity and concentrate the heat at the cutting edge. Tool abrasion is severe. The material tends to shrink when cutting an internal thread. The PL1 tap is designed to cut slightly oversize to allow for the shrinkage.

A nitriding treatment is applied for better tool life.

## Comparison of accuracy between a HT and a PL1





## **Product Chart**

			_				
			S	low		Tapping Speed	Fast
Examples of workpiece materials					5n	n/min :	10m/min :
ting	Phenolic resin	PF			PL1		
	Urea resin	UF				)	
	Melamine resin	MF					
<u> </u>	Epoxy resin (for casting)	EP					
	Unsaturated polyester (hard for casting)	UP					
ering tics	Polyacetal	POM		PL2			
Engine plas	Polycarbonate	PC		(For therm	noplastic resins)		
astics	ABS resin ABS						
odity pla	Polyvinyl chloride	PVC					
Commi	High-density polyethylene	HDPE					
	Commodity plastics Engineering The Plastics District Commodity plastics	Phenolic resin  Urea resin  Melamine resin  Epoxy resin (for casting)  Unsaturated polyester (hard for casting)  Polyacetal  Polyacetal  Polycarbonate  ABS resin  Polyvinyl chloride  High-density	Phenolic resin PF  Urea resin UF  Melamine resin MF  Epoxy resin (for casting) Unsaturated polyester (hard for casting) Polyacetal PolM Polyacetal POM Polycarbonate PC  ABS resin ABS Polyvinyl chloride PVC High-density	Phenolic resin PF  Urea resin UF  Melamine resin MF  Epoxy resin (for casting) Unsaturated polyester (hard for casting) Polyacetal Poly Polyacetal Polycarbonate PC  ABS resin ABS Polyvinyl chloride PVC High-density Unes	Phenolic resin PF  Urea resin UF  Melamine resin MF  Epoxy resin (for casting) Unsaturated polyester (hard for casting) Polyacetal Polyacetal POM Polycarbonate PC (For therm Polyvinyl chloride PVC High-density unper	Phenolic resin PF PL1  Urea resin UF (For plastics)  Melamine resin MF  Epoxy resin (for casting) Unsaturated polyester (hard for casting) Polyacetal Poly Polycarbonate PC (For thermoplastic resins)  ABS resin ABS Polyvinyl chloride PVC High-density upper	Phenolic resin PF PL1  Urea resin UF (For plastics)  Melamine resin MF  Epoxy resin (for casting)  Unsaturated polyester (hard for casting)  Polyacetal Poly Pl2  Polycarbonate PC (For thermoplastic resins)  ABS resin ABS  Polyvinyl chloride PVC  High-density unper

5m/min

. 10m/min

Spiral Pointed Taps | Spiral Fluted Taps | Spiral Fluted Taps | (for through hole) | (for through hole) |

Hand Taps 4

Carbide Taps Roll Taps

6

Pipe Taps | Special Thread Taps | Simple Inspection Tools |

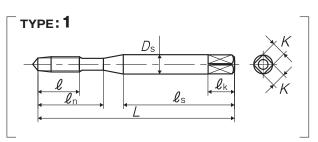
Thread Mills | Oremium Thread Mills |

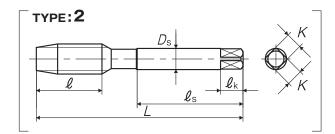
Dies

Center Drills
Centering Tools

10

Precision Machinery/ | Medical Surgical Instruments |





Segment: 1A

Size	Class	Code	Chamfer	L (mm)	(mm)	ℓn (mm)	ℓs <sub>(mm)</sub>	Ds (mm)	K (mm)	ℓk (mm)	No. of flutes	TYPE	MSRP	
For Metric Threads														
$M2 \times 0.4$	P4	TPLM2.0E3	3P	42	7.2	12	27	3	2.5	5	3	1	¥	2,790 *
$M2.3 \times 0.4$	P4	TPLM2.3E3	3P	42	7.2	12	27	3	2.5	5	3	1	¥	2,530 *
$M2.5 \times 0.45$	P4	TPLM2.5F3	3P	46	8.1	14	29	3	2.5	5	3	1	¥	2,140
$M2.6 \times 0.45$	P4	TPLM2.6F3	3P	46	8.1	14	29	3	2.5	5	3	1	¥	2,140 *
$M3 \times 0.5$	P5	TPLM3.0G3	3P	46	9	14	26	4	3.2	6	4	1	¥	1,500
$M3.5 \times 0.6$	P5	TPLM3.5H3	3P	52	11	16	29	5	4	7	4	1	¥	1,500
$M4 \times 0.7$	P5	TPLM4.013	3P	52	11	17	29	5	4	7	4	1	¥	1,500
$M5 \times 0.8$	P5	TPLM5.0K3	3P	60	13	22	33	5.5	4.5	7	4	1	¥	1,510
M6 × 1	P5	TPLM6.0M3	3P	62	15	26	33	6	4.5	7	4	1	¥	1,660 **
M8 × 1.25	P6	TPLM8.0N3	3P	70	19	-	36	6.2	5	8	4	2	¥	2,270 *