**YAMAWA** 



**Product Features** 

in our daily life.

cutting speed on drilling machines.

chamfer portion, IPO ejects chips forward in the tapping direction and is for through hole use.

treatment for iron products. Suitable for internal thread cutting in small quantity, such as

tapping of test pieces. Having spiral points in the

# Spiral Pointed Taps for General Purpose

## Specification









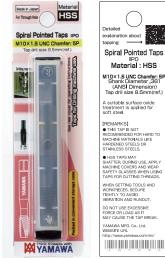
Tapping Speeds depending on Materials



●IPO is the best tap for through holes to be used with lower

●Use for threading of the iron (SPC or SS400) products used

Surface treated. Oxidization, the most suitable surface



Blister Pack

## How to use IPO

- Start tapping after boring holes corresponding to the thread size by using drills.
- ●In the case of tapping with drilling machines, recommended tapping speed is slower than 5m/min.
- During tapping, please use tapping oil.



When hand tapping, always use tap wrench



Machine tapping with drilling

able for bored and drilled hole sizes unit:mm									
	Minor D	Diameter of Internal Thre		Thursday					
Size	Minimum	Maximum	Tolerance	Drill Size	Thread Engagement				
	Tolerance	6H (2nd Class)	7H (3rd Class)		5050110116				
$M3 \times 0.5$	2.459	2.599	2.639	2.6 (2.5)	74% (92%)				
$M4 \times 0.7$	3.242	3.422	3.466	3.4 (3.3)	79% (92%)				
M5 × 0.8	4.134	4.344	4.384	4.3 (4.2)	81% (92%)				
M6 × 1	4.917	5.153	5.217	5.1 (5.0)	83% (92%)				
M8 × 1.25	6.647	6.912	6.982	6.9 (6.8)	91% (89%)				
M10 × 1.5	8.376	8.676	8.751	8.6 (8.5)	86% (92%)				

Tapping for through holes

note1) Recommended drill sizes shown in this table are for internal threads of 7H class (3rd class), and are selected from the standard drills available in the

note2) Drill sizes shown in brackets in this table are for such case as the drilling has oversize cutting tendency or for internal threads of 6H class (2nd class).

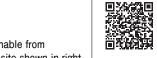
## [Related products]

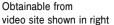
## Shank adjuster

- •For deep hole tappings, please use shank adjusters.
- ●There is only a one touch motion required to detach and attach the I series taps (IHT/ISP/IPO) from or to the shank adjuster. \*For details of shank adjuster, refer to 7-83









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

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

Spiral Pointed Taps
(for through hole)

Hand Taps 4

Carbide Taps Roll Taps

6

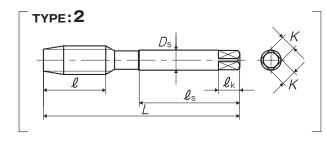
Pipe Taps | Special Thread Taps | Simple Inspection Tools |

Thread Mills | Oremium Thread Mills |

Dies

10

Center Drills
Centering Tools Precision Machinery/ | Medical Surgical Instruments |



# **Blister Pack**

l

 $\ell_n$ 

TYPE: 1

Ds

 $\ell_{\text{S}}$ 

 $\ell_k$ 

Segment: 1E

Size	Code	Chamfer	L (mm)	l (mm)	ℓn (mm)	ℓs (mm)	Ds (mm)	K (mm)	ℓk (mm)	No. of flutes	TYPE	MSRP
For Metric Threads												
$M3 \times 0.5$	PI73.0GBP	5P	46	9	14	26	4	3.2	6	3	1	¥ 910
$M4 \times 0.7$	PI74.0IBP	5P	52	11	17	29	5	4	7	3	1	¥ 950
$M5 \times 0.8$	PI75.0KBP	5P	60	13	22	33	5.5	4.5	7	3	1	¥ 960
M6 × 1	PI76.0MBP	5P	62	15	26	33	6	4.5	7	3	1	¥ 1,010
$M8 \times 1.25$	PI78.0NBP	5P	70	19	-	36	6.2	5	8	3	2	¥ 1,550
$M10 \times 1.5$	PI70100BP	5P	75	23	-	38	7	5.5	8	3	2	¥ 1,940