### **JIS**

Spiral Fluted Taps

5 Siral Fluted Taps (for through hole)

Spiral Pointed Taps
(for through hole)

4 Hand Taps

Cemented Carbide Tans















# MS+RS

**Roll Taps for Miniature Threads** 



#### **Specification**



### **Tapping Speeds depending on Materials**











# **HPsRZ**

High Performance Roll Taps for Miniature Threads



#### **Specification**



#### **Tapping Speeds depending on Materials**













#### **Product Features**

- •Improved tool rigidity from new blank shape that offers torsional strength and shank accuracy.
- Markings that were on the shanks outside diameter have been transferred to the square part to improve circularity.
- New thread portion offers improvements in the accuracy of the "GS" class of internal thread tapping.

#### **Tapping Data**

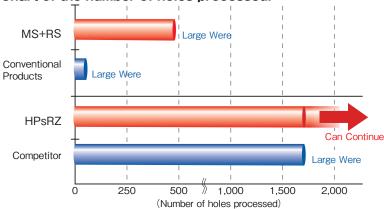
#### Tapping Conditions [S0.8×0.2]

		_					
	MS+RS	HPsRZ					
Types of Taps	Conventional product	Competitor					
Surface Treatment	ent – TiCN						
Workpiece Material	SUS304 (88HRB)						
Bore Diameter	φ0.73						
Tapping Length	1.2mm (1.5D)						
Tapping Speed	4m/min	8m/min					
Machinery Type	CNC tapping	ng center					
Tapping Fluid	Non-water soluble cutting fluid						

# Recommended hole diameter (reference value).

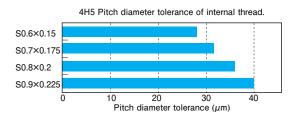
		-	Omit-min			
Size	Limit	4H5 Thread Limit				
		Max.	Min.			
S0.6 × 0.15	GS 2	0.55	0.54			
S0.7 × 0.175	GS 3	0.64	0.62			
S0.8 × 0.2	GS 3	0.73	0.71			
S0.9 × 0.225	GS 4	0.82	0.80			

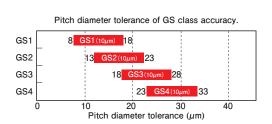
#### Chart of the number of holes processed.



\* Tool life is judged by the threads major diameter wear width.

#### New thread GS class accuracy







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

Hand Taps

Carbide Taps

4

Pipe Taps Special Thread Taps Simple Inspection Tools

Thread Mills

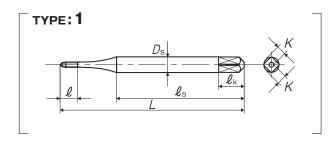
Thread Mills

Center Drills
Centering Tools

(10)

Precision Machinery/ al Surgical Instruments

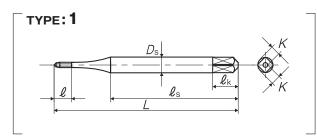
## MS+RS Roll Taps for Miniature Threads



Recommended class

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Size	Class	Code	Chamfer	L (mm)	l (mm)	ℓs (mm)	Ds (mm)	K (mm)	ℓk (mm)	Lobe	TYPE	MSRP
For Miniature Threads												
S0.6 × 0.15	GS2	MSP20.6-B	2P	36	2.5	25	3	2.5	6	4	1	¥ 6,870 *
S0.7 × 0.175	GS3	MSP30.7-B	2P	36	2.5	25	3	2.5	6	4	1	¥ 5,970 *
$S0.8 \times 0.2$	GS3	MSP30.8-B	2P	36	3	25	3	2.5	6	4	1	¥ 5,570 *
S0.9 × 0.225	GS4	MSP40.9-B	2P	36	3	25	3	2.5	6	4	1	¥ 5,570 *

### HPsRZ High Performance Roll Taps for Miniature Threads



Recommended class

`	oegment - 10												
	Size	Class	Code	Chamfer	L (mm)	l (mm)	ℓs (mm)	Ds (mm)	K (mm)	lk (mm)	Lobe	TYPE	MSRP
For Miniature Threads													
	$S0.6 \times 0.15$	GS2	HPS20.6-B	2P	36	2.5	25	3	2.5	6	4	1	¥ 8,890 *
	$S0.7 \times 0.175$	GS3	HPS30.7-B	2P	36	2.5	25	3	2.5	6	4	1	¥ 7,740 *
	$S0.8 \times 0.2$	GS3	HPS30.8-B	2P	36	3	25	3	2.5	6	4	1	¥ 7,230 *
	S0.9 × 0.225	GS4	HPS40.9-B	2P	36	3	25	3	2.5	6	4	1	¥ 7,230 *