

① Spiral Fluted Tap Series for blind 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



HC+SP HC-SP

Spiral Fluted Taps for High Carbon Steels



Specification



• Product Name and Size.

HC+SP	~ M6
HC-SP	M8~, all W

Tapping Speeds depending on Materials

Medium carbon steels 中炭素鋼	High carbon steels 高炭素鋼
5~10 (m/min)	5~10 (m/min)

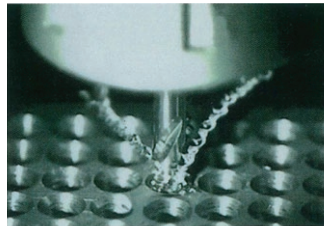
Product Features

●The HC+SP/HC-SP is a spiral flute tap for high carbon steel such as S55C and is suitable for tapping of medium and high hardness materials up to 30 HRC.

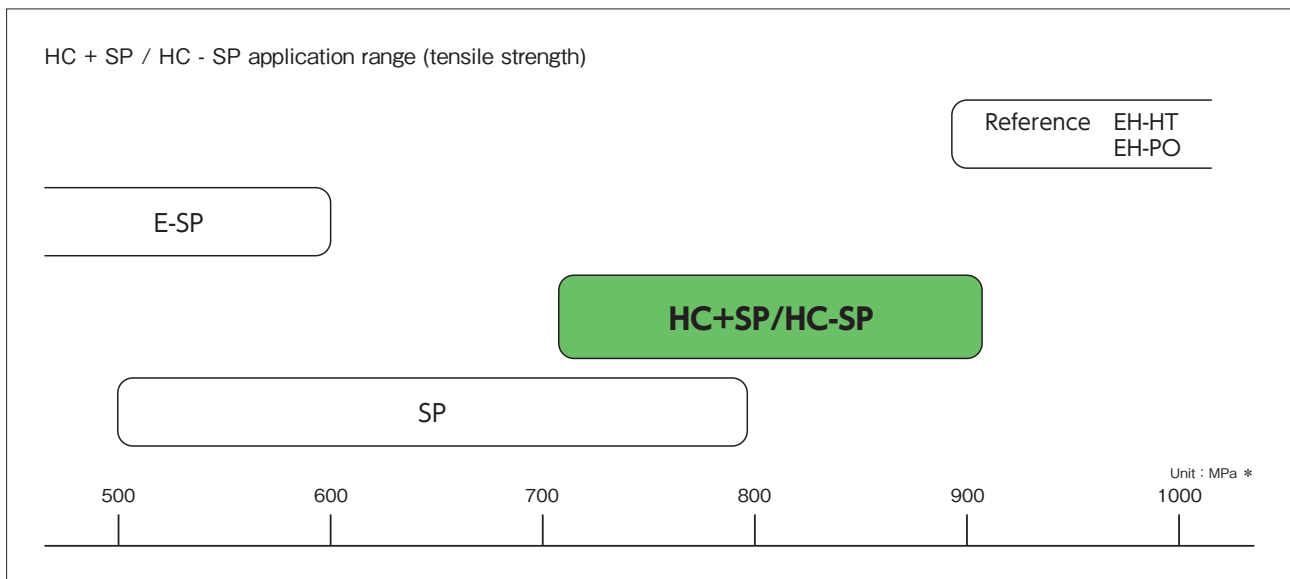
Tapping conditions

The HC+SP/HC-SP is best suited for tapping of high carbon steel, alloy tool steel and refined steel.

Workpiece Material	Cutting Speed (m/min)
S45C ~ High Carbon Steel	10~20
SKC, SKD Alloy Tool Steel	5~10
Thermal Refining Steel 25~35HRC	5~10



Product chart (tensile strength)



Overall length	Thread length	Thread + Neck length	Shank length	Shank dia.	Size of square	Length of square
L	ℓ	ℓ _n	ℓ _s	D _s	K	ℓ _k

1

JIS

Spiral Fluted Taps
(for blind hole) ①Spiral Fluted Taps
(for through hole) ②Spiral Pointed Taps
(for through hole) ③

Hand Taps ④

Cemented Carbide Taps ⑤

Roll Taps ⑥

Special Thread Taps
Simple inspection tools ⑦

Pipe Taps ⑧

Thread Mills
Premium Thread Mills ⑨

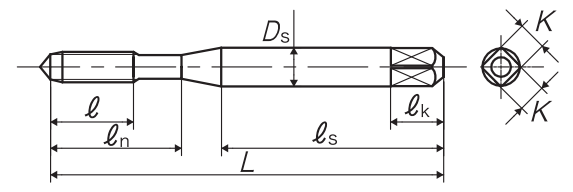
Dies ⑩

Center Drills
Centering Tools ⑪Precision Machinery/
Metal Surgical Instruments ⑫

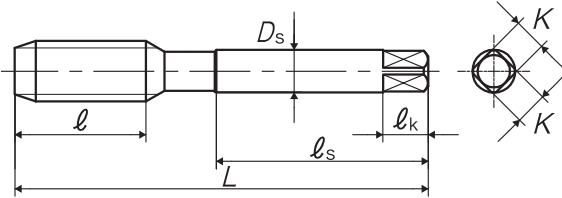
JIS

①-148

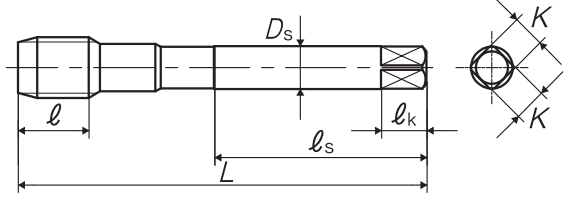
TYPE: 1



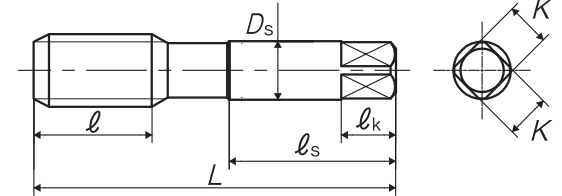
TYPE: 2



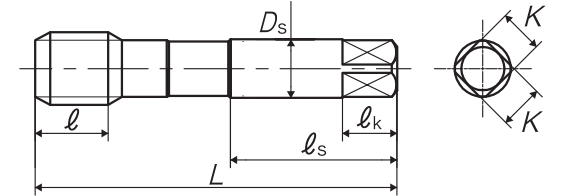
TYPE: 3



TYPE: 4



TYPE: 5



HC+SP Spiral Fluted Taps for High Carbon Steels

Segment: 1C

Size	Class	Code	Chamfer	L (mm)	ℓ (mm)	ℓ _n (mm)	ℓ _s (mm)	D _s (mm)	K (mm)	ℓ _k (mm)	No. of flutes	TYPE	MSRP
For Metric Threads													
M3 × 0.5	P1	SCPP3.0G	2.5P	46	9	14	26	4	3.2	6	3	1	¥ 1,520
M4 × 0.7	P2	SCPQ4.0I	2.5P	52	11	17	29	5	4	7	3	1	¥ 1,520
M5 × 0.8	P2	SCPQ5.0K	2.5P	60	13	22	33	5.5	4.5	7	3	1	¥ 1,530
M6 × 1	P2	SCPQ6.0M	2.5P	62	15	26	33	6	4.5	7	3	1	¥ 1,680

HC-SP Spiral Fluted Taps for High Carbon Steels

Segment: 1C

Size	Class	Code	Chamfer	L (mm)	ℓ (mm)	ℓ _n (mm)	ℓ _s (mm)	D _s (mm)	K (mm)	ℓ _k (mm)	No. of flutes	TYPE	MSRP
For Metric Threads													
M8 × 1.25	P2	SCMQ8.0N	2.5P	70	19	-	36	6.2	5	8	3	2	¥ 2,310
M8 × 1	P2	SCMQ8.0M	2.5P	70	19	-	36	6.2	5	8	3	2	¥ 2,620*
M10 × 1.5	P2	SCMQ010O	2.5P	75	23	-	38	7	5.5	8	3	2	¥ 2,930
M10 × 1.25	P2	SCMQ010N	2.5P	75	23	-	38	7	5.5	8	3	2	¥ 2,930*
M10 × 1	P2	SCMQ010M	2.5P	75	23	-	38	7	5.5	8	3	2	¥ 3,480*
M12 × 1.75	P2	SCMQ012P	2.5P	82	26	-	42	8.5	6.5	9	3	2	¥ 4,160
M12 × 1.5	P2	SCMQ012O	2.5P	82	26	-	42	8.5	6.5	9	3	2	¥ 4,160*
M12 × 1.25	P2	SCMQ012N	2.5P	82	26	-	42	8.5	6.5	9	3	2	¥ 4,160*
M12 × 1	P2	SCMQ012M	2.5P	82	26	-	42	8.5	6.5	9	3	2	¥ 4,890*
M14 × 2	P2	SCMQ014Q	2.5P	88	26	-	45	10.5	8	11	3	2	¥ 5,670*
M14 × 1.5	P2	SCMQ014O	2.5P	88	26	-	45	10.5	8	11	3	2	¥ 5,670*
M14 × 1.25	P2	SCMQ014N	2.5P	88	26	-	45	10.5	8	11	3	2	¥ 6,580*
M14 × 1	P2	SCMQ014M	2.5P	88	26	-	45	10.5	8	11	3	2	¥ 6,580*
M16 × 2	P2	SCMQ016Q	2.5P	95	26	-	48	12.5	10	13	3	2	¥ 7,580

* = Specified Distribution Items. Made to order products.

1 Spiral Fluted Tap Series for blind 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

JIS

HC-SP Spiral Fluted Taps for High Carbon Steels

Size	Class	Code	Chamfer	L (mm)	ℓ (mm)	ℓn (mm)	ℓs (mm)	Ds (mm)	K (mm)	ℓk (mm)	No. of flutes	TYPE	MSRP
M16 × 1.5	P2	SCMQ016O	2.5P	95	26	-	48	12.5	10	13	3	2	¥ 7,580 [*]
M16 × 1	P2	SCMQ016M	2.5P	95	26	-	48	12.5	10	13	3	2	¥ 9,030 [*]
M18 × 2.5	P3	SCMR018R	2.5P	100	33	-	51	14	11	14	4	2	¥ 10,200 [*]
M18 × 2	P3	SCMR018Q	2.5P	100	33	-	51	14	11	14	4	2	¥ 10,200 [*]
M18 × 1.5	P2	SCMQ018O	2.5P	100	33	-	51	14	11	14	4	2	¥ 10,200 [*]
M18 × 1	P2	SCMQ018M	2.5P	100	18	-	51	14	11	14	4	3	¥ 13,100 [*]
M20 × 2.5	P3	SCMR020R	2.5P	105	33	-	50	15	12	15	4	4	¥ 13,800
M20 × 2	P3	SCMR020Q	2.5P	105	33	-	50	15	12	15	4	4	¥ 13,800 [*]
M20 × 1.5	P3	SCMR020O	2.5P	105	33	-	50	15	12	15	4	4	¥ 13,800 [*]
M20 × 1	P2	SCMQ020M	2.5P	105	18	-	50	15	12	15	4	5	¥ 17,600 [*]
M22 × 2.5	P3	SCMR022R	2.5P	115	33	-	55	17	13	16	4	4	¥ 17,700 [*]
M22 × 2	P3	SCMR022Q	2.5P	115	33	-	55	17	13	16	4	4	¥ 17,700 [*]
M22 × 1.5	P3	SCMR022O	2.5P	115	33	-	55	17	13	16	4	4	¥ 17,700 [*]
M24 × 3	P3	SCMR024S	2.5P	120	39	-	55	19	15	18	4	4	¥ 22,000 [*]
M24 × 2	P3	SCMR024Q	2.5P	120	39	-	55	19	15	18	4	4	¥ 22,000 [*]
M24 × 1.5	P3	SCMR024O	2.5P	120	39	-	55	19	15	18	4	4	¥ 22,000 [*]
M25 × 1.5	P3	SCMR025O	2.5P	125	39	-	58	19	15	18	4	4	¥ 28,500 [*]
M26 × 1.5	P3	SCMR026O	2.5P	130	39	-	60	20	15	18	4	4	¥ 30,600 [*]
M27 × 3	P3	SCMR027S	2.5P	130	39	-	60	20	15	18	4	4	¥ 30,600 [*]
M27 × 1.5	P3	SCMR027O	2.5P	130	39	-	60	20	15	18	4	4	¥ 30,600 [*]
M28 × 1.5	P3	SCMR028O	2.5P	135	46	-	62	23	17	20	4	4	¥ 39,000 [*]
M30 × 3.5	P4	SCMS030T	2.5P	135	46	-	62	23	17	20	4	4	¥ 39,000 [*]
M30 × 1.5	P3	SCMR030O	2.5P	135	46	-	62	23	17	20	4	4	¥ 39,000 [*]
For Whitworth Threads													
1/4W20	P2	SCMQW04N	2.5P	62	15	26	33	6	4.5	7	3	1	¥ 1,920 [*]
5/16W18	P2	SCMQW05O	2.5P	70	19	-	36	6.2	5	8	3	2	¥ 2,660 [*]
3/8W16	P2	SCMQW06P	2.5P	75	23	-	38	7	5.5	8	3	2	¥ 3,400 [*]
1/2W12	P3	SCMRW08S	2.5P	88	26	-	45	10.5	8	11	3	2	¥ 5,080 [*]
5/8W11	P3	SCMRW10U	2.5P	95	26	-	48	12.5	10	13	3	2	¥ 7,580 [*]
3/4W10	P3	SCMRW12V	2.5P	105	33	-	50	15	12	15	4	4	¥ 13,800 [*]
7/8W9	P3	SCMRW14W	2.5P	115	33	-	55	17	13	16	4	4	¥ 19,500 [*]
1 W8	P3	SCMRW16X	2.5P	125	39	-	58	19	15	18	4	4	¥ 28,500 [*]

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

JIS



* = Specified Distribution Items. Made to order products.