

Support Pins

Configurable / with Pilot

Support Pins - Configurable / wth Pilot

RoHS 10

Relief dimension is a reference value.

D	H	M (Coarse)	M ₁ (Coarse)	m
3	6	M3	—	1
4	—	M4	—	—
5	8	M5	—	—
6	—	M6	M3	2
8	11	M8	M4	—
10	13	M10	—	—
12	15	M12	M5	3

Type						Material	Surface Treatment	Hardness
Straight			Shouldered					
Standard	Tapped	Threaded	Standard	Tapped	Threaded			
SHFJ	SHFU	SHFN	—	SHXU	SHXN	01 Tool Steel or Equivalent	—	Treated Hardness: 60-63 HRC min.
GSHFJ	GSHFU	GSHFN	GSHXJ	—	—	—	Hard Chrome Plating	Hardness: 50-55 HRC min. Plating Hardness 750 HV min.
SSHFJ	SSHFU	SSHFN	—	—	SSHXN	304 Stainless Steel	—	—
CSHFJ	CSHFU	CSHFN	CSHXJ	CSHXU	CSHXN	440C or 420 Stainless Steel	—	Treated Hardness: 50-55 HRC min.

Straight Type Standard

Tapped

Threaded

Shouldered Type Standard

Tapped

Threaded

Ⓢ Q ≤ P-1 Ⓢ When K < Pitchx2, the incomplete threaded portion is included in Mx1.5. Ⓢ 440C or 420 Stainless Steel has an identification groove on D mounting section.

Standard

Part Number	Type	D	P Increment		Q	K	L	B
			0.1 mm	0.01 mm				
Straight	Shouldered	3	3.5-6.0	3.0-5.0	2.00-5.00	3-6	10.00-60.00	2.0-5.0
		4	4.5-7.0	3.0-5.0	2.00-6.00	4-8	10.00-60.00	2.0-10.0
GSHFJ	GSHXJ	5	5.5-8.0	3.0-7.0	2.00-7.00	5-10	10.00-60.00	2.0-10.0
		6	6.5-10.0	5.0-7.0	4.00-9.00	6-12	10.00-80.00	2.0-12.0
SSHFJ	SSHXN	8	9.0-13.0	5.0-8.0	4.00-12.00	8-16	10.00-80.00	2.0-15.0
		10	11.0-15.0	6.0-11.0	5.00-14.00	10-20	10.00-100.00	2.0-20.0
CSHFJ	CSHXJ	12	13.0-16.0	6.0-13.0	5.00-15.00	12-24	10.00-100.00	2.0-20.0

Tapped & Threaded Recommended Tightening Torque (Reference)

M (Coarse)	Tightening Torque N-cm
M3	98
M4	225
M5	461
M6	784
M8	1911
M10	3783
M12	6605

*The tightening torque (ref. value) for hardened products is strength class 8.8. (See technical data on MISUMI 2019 catalog P.4015). Not applicable when using locking agents or spring washers.

Tapped

Part Number	Type	D	P Increment		Q	K	L	B
			0.1 mm	0.01 mm				
Straight	Shouldered	6	6.5-10.0	5.0-7.0	4.00-9.00	6-12	10.00-80.00	2.0-12.0
		8	9.0-13.0	5.0-9.0	4.00-12.00	8-16	10.00-80.00	2.0-15.0
SHFU	SHXU	10	11.0-15.0	6.0-11.0	5.00-14.00	10-20	10.00-100.00	2.0-20.0
		12	13.0-16.0	6.0-13.0	5.00-15.00	12-24	10.00-100.00	2.0-20.0

Ⓢ Note the strength of under-head part. P.1542

Threaded

Part Number	Type	D	P Increment		Q	K	L	B
			0.1 mm	0.01 mm				
Straight	Shouldered	3	3.5-6.0	3.0-5.0	2.00-5.00	0-6	10.00-60.00	2.0-5.0
		4	4.5-7.0	3.0-5.0	2.00-6.00	0-8	10.00-60.00	2.0-10.0
SHFN	SHXN	5	5.5-8.0	3.0-7.0	2.00-7.00	0-10	10.00-60.00	2.0-10.0
		6	6.5-10.0	5.0-7.0	4.00-9.00	0-12	10.00-80.00	2.0-12.0
GSHFN	GSHXN	8	9.0-13.0	5.0-9.0	4.00-12.00	0-16	10.00-80.00	2.0-15.0
		10	11.0-15.0	6.0-11.0	5.00-14.00	0-20	10.00-100.00	2.0-20.0
SSHFN	SSHXN	12	13.0-16.0	6.0-13.0	5.00-15.00	0-24	10.00-100.00	2.0-20.0

Ⓢ The dispersion of dimension L should be within 0.02 for same orders. Ⓢ For full thread, specify a K dimension of 0 and NNC alteration.

Part Number Alterations Part Number - P - Q - K - L - B - (SC, HC, DRC, NNC)
 SHXU10 - P8.5 - Q5.00 - K10 - L80.00 - B3.2 - HC12

Part Number Example Part Number - P - Q - K - L - B
 SHFJ5 - P6.0 - Q4.50 - K5 - L30.55 - B3.2

Alterations	Wrench Flats	Wrench Flats	Screwdriver Slot	Relief
Code	SC	HC	DRC	NNC
Spec.	SC = 1 mm Increment SC>D Ordering Code: SC8 Ⓢ For Tapped, SC≥M1+3 Ⓢ Applicable to Straight Type only.	HC = 1 mm Increment HC>P HC>D Ordering Code: HC10 Ⓢ Applicable to Shouldered Type only.	Width 0.8mm Depth 1 mm Ordering Code: DRC Ⓢ Applicable to Threaded Type only.	Adds a relief at the thread end. Ordering Code: NNC Ⓢ Applicable when K=0. Ⓢ Applicable to Threaded Type only.

Support Pins

Flat / Tip Set Screw

Support Pins - Flat / Tip Set Screw

RoHS 10

Type	Shape Code	Material Code	Material	Surface Treatment	Hardness
STP (Flat) SPF (Tip Set Screw)	A (Threaded) B (Tapped) D (Threaded with Pilot)	B	1045 Carbon Steel or Equivalent	Black Oxide	—
		R		Hard Chrome Plating	Plating Hardness :750 HV min.
		HB		Black Oxide	Treated Hardness: 45-50 HRC min.
		HR	Hard Chrome Plating	Treated Hardness: 45-50 HRC min. Plating Hardness :750 HV min.	
		SU	304 Stainless Steel	—	—
C	440C or 420 Stainless Steel	—	—	Treated Hardness: 50-55 HRC min.	

Flat

Threaded

Tip Set Screw

Threaded

Tapped

Tapped

Threaded with Pilot

*When D8, L dimension 15 or less is Mx1.2.

Ⓢ The range of L dimension should be within 0.02 for same orders.
 Ⓢ 304 Stainless Steel may not be polished.
 *When D8, L dimension 15 or less is M x 1.2.

Flat

Type	Part Number		Material Code	D	L	M (Coarse)	d	M ₃ (Coarse)	F	W	L
	Shape Code	Material Code									
STP (Flat)	A (Threaded) B (Tapped) D (Threaded with Pilot)	B R HB HR SU C	B R HB HR SU C	6	10.00-50.00	M3	3	M3	1.5	5	8
				8			5	M5	2	7	
				10	20.00-80.00	M5	6	M6	3	8	
				12			8	M8	4	10	
				15	20.00-80.00	M8	10	M10	5	13	
				20			12	M12	5	17	

Tip Set Screw

Type	Shape Code	Material Code	D	L	P Selection	B	d	F	M ₁ (Coarse)	W	L	A	M ₂ (Coarse)	N (Coarse)	
															0.01 mm Increment
SPF (Tip Set Screw)	A (Threaded) B (Tapped)	B SU	B SU	12	20.00(30.00)-80.00	6	4.0-6.0	8	4	M8	10	10	10	M5	M3
				15	20.00(40.00)-80.00	8	5.0-10.0	10	5	M10	13	10	15	M8	M4
				20	25.00(45.00)-80.00	10 12	5.0-15.0	12	5	M12	17	10	20	M8	M4
				25	30.00(50.00)-80.00	12 16	5.0-19.0	16	5	M16	20	12	24	M10	M4
				30	35.00(65.00)-80.00	16 20	5.0-23.0	20	6	M20	24	18	28	M16	M4

Ⓢ L dimension in () is applicable to Tapped Type only. Ⓢ Threaded type not available for Stainless Steel material. Tapped type not available for Carbon Steel material.

Part Number Example Part Number - L - P - B
 STPAB10 - L20.03
 SPFBUS12 - L20.01 - P6 - B5 Flat Type
 SPFAB12 - L20.01 - P6 - B5 Tip Set Screw

Application Example

JPGQSGS (P.1584)
 Tip Set Screw, Tapped Type

Tapped & Threaded Recommended Tightening Torque (Reference)

M (Coarse)	Tightening Torque N-cm
M3	98
M4	225
M5	461
M6	784
M8	1911
M10	3783
M12	6605
M16	16366
M20	32928

*The tightening torque (ref. value) for hardened products is strength class 8.8. (See technical data on MISUMI 2019 catalog P.4015). Not applicable when using locking agents or spring washers.