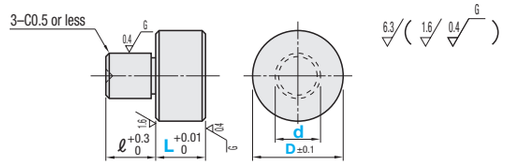
Height Adjusting Pins
Press Fit, Counterbored

Features: Locating Pins for the height direction. Press Fit and Counterbored. O.D. and Height Configurable.

Press Fit

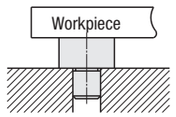
Material	Surface Treatment	Hardness	Type			
			L Configurable		D and L Configurable	
			d dim. Tolerance p6	d dim. Tolerance m6	d dim. Tolerance p6	d dim. Tolerance m6
SKS3 Equivalent	-	Treated Hardness: 60 ~ 63HRC	JPAT	JPAM	JPATF	JPAMF
SKS3 Equivalent	Black Oxide	Treated Hardness: 60 ~ 63HRC	BJPAT	BJPAM	BJPATF	BJPAMF
SKS3 Equivalent	Hard Chrome Plating Plating Thickness: 3µm or more	Treated Hardness: 50 ~ 55HRC Plating Hardness: 750HV ~	HJPAT	HJPAM	HJPATF	HJPAMF
SUS304	-	-	SJPAT	SJPAM	SJPATF	SJPAMF
SUS440C Equivalent	-	Treated Hardness: 50 ~ 55HRC	CJPAT	CJPAM	CJPATF	CJPAMF



L Configurable

Part Number Type		d	d dim. Tolerance m6	d dim. Tolerance p6	L 0.01mm Increment	D	ℓ	Unit Price JPAT JPAM	BJPAT BJPAM	HJPAT HJPAM	SJPAT SJPAM	CJPAT CJPAM
d dim. Tolerance p6	d dim. Tolerance m6											
JPAT	JPAM	3	+0.008 +0.002	+0.012 +0.006	2.00~10.00	6	5					
BJPAT	BJPAM	4	+0.012 +0.004	+0.020 +0.012		8	6					
HJPAT	HJPAM	5				10	8					
SJPAT	SJPAM	6			5.00~30.00	12						
CJPAT	CJPAM	8	+0.015	+0.024		16	10					
		10	+0.006	+0.015	10.00~50.00	18	12					
		12	+0.018 +0.007	+0.029 +0.018		20	15					

Example



D and L Configurable

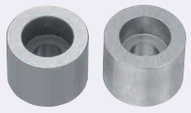
Part Number Type		d	d dim. Tolerance m6	d dim. Tolerance p6	L 0.01mm Increment	D 1mm Increment	ℓ	Unit Price JPATF JPAMF	BJPATF BJPAMF	HJPATF HJPAMF	SJPATF SJPAMF	CJPATF CJPAMF
d dim. Tolerance p6	d dim. Tolerance m6											
JPATF	JPAMF	3	+0.008 +0.002	+0.012 +0.006	2.00~10.00	5~30 (d<D<5d)	5					
BJPATF	BJPAMF	4	+0.012 +0.004	+0.020 +0.012			6					
HJPATF	HJPAMF	5					8					
SJPATF	SJPAMF	6			5.00~30.00							
CJPATF	CJPAMF	8	+0.015	+0.024			10					
		10	+0.006	+0.015	10.00~50.00		12					
		12	+0.018 +0.007	+0.029 +0.018			15					

◆Tapped, Threaded Recommended Tightening Torque (Reference)

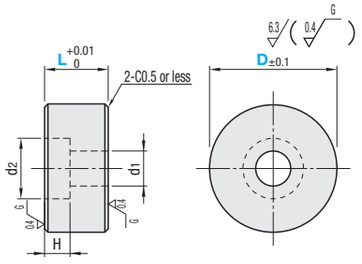
M (Coarse)	Tightening Torque N·cm
M3	147
M4	333
M5	676
M6	1156
M8	2803
M10	5557
M12	9702
M16	24108
M20	46942

Tightening torque (reference) will be within Strength Class of Tightening Torque on Technical Data ☞ P.2297 (10.9). Not applicable when using locking materials or lock washers.

Counterbored



Material	Surface Treatment	Hardness	Type	
			L Configurable	D and L Configurable
SKS3 Equivalent	-	Treated Hardness: 60 ~ 63HRC	JPHU	JPHUZ
SKS3 Equivalent	Black Oxide	Treated Hardness: 60 ~ 63HRC	BJPHU	BJPHUZ
SKS3 Equivalent	Hard Chrome Plating Plating Thickness: 3µm or more	Treated Hardness: 50 ~ 55HRC Plating Hardness: 750HV ~	HJPHU	HJPHUZ
SUS304	-	-	SJPHU	SJPHUZ
SUS440C Equivalent	-	Treated Hardness: 50 ~ 55HRC	CJPHU	CJPHUZ



L Configurable

Part Number Type	No.	L 0.01mm Increment	D	d1	d2	H	Applicable Screw	*Tightening Torque N·cm	Unit Price JPHU	BJPHU	HJPHU	SJPHU	CJPHU
JPHU	3	6.00~15.00	12	3.5	6.5	4	M3	147					
BJPHU	4	7.00~20.00	13	4.5	8	5	M4	333					
HJPHU	5	8.00~20.00	15	5.5	9.5	6	M5	676					
SJPHU	6	9.00~25.00	20	6.5	11	7	M6	1156					
CJPHU	8	11.00~30.00	30	9	14	9	M8	2803					

D and L Configurable

Part Number Type	No.	L 0.01mm Increment	D 1mm Increment	d1	d2	H	Applicable Screw	*Tightening Torque N·cm	Unit Price JPHUZ	BJPHUZ	HJPHUZ	SJPHUZ	CJPHUZ
JPHUZ	3	6.00~15.00	10~15	3.5	6.5	4	M3	147					
BJPHUZ	4	7.00~20.00	12~20	4.5	8	5	M4	333					
HJPHUZ	5	8.00~20.00	15~20	5.5	9.5	6	M5	676					
SJPHUZ	6	9.00~25.00	15~25	6.5	11	7	M6	1156					
CJPHUZ	8	11.00~30.00	18~30	9	14	9	M8	2803					

* Tightening torque (reference) will be within Strength Class of Tightening Torque on Technical Data ☞ P. 2297 (10.9). Not applicable when using locking materials or lock washers.

Ordering Example

Part Number - L
JPAT8 - 15.00 (Press Fit, L Configurable)
JPHU3 - 10.00 (Counterbored, L Configurable)

Part Number - L - D
JPATF8 - 15.00 - 12 (Press Fit, D and L Configurable)
JPHUZ5 - 10.00 - 20 (Counterbore, D and L Configurable)

Height Adjusting Pins
Flat, Tip Set Screw

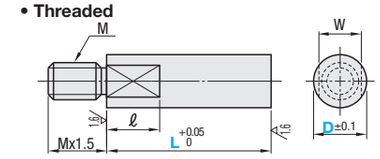
Features: With Wrench Flats. Locating is possible by attaching a pin on the tip or by Flat Tip adjustment.

Material	Surface Treatment	Hardness	Flat			Tip Set Screw Type	
			Threaded	Tapped	Threaded with Pilot	Threaded	Tapped
① S45C (STPAB) S45C Equivalent (STPAB) (STPBB) (SPFAB)	Black Oxide	-	STPAB	STPBB	STPDB	SPFAB	-
② S45C (STPAR) S45C Equivalent (STPAR) (STPBR)	Hard Chrome Plating	-	STPAR	STPBR	STPDR	-	-
③ S45C (STPAHB) S45C Equivalent (STPAHB) (STPBHB)	Black Oxide	Treated Hardness: 45 ~ 50HRC	STPAHB	STPBHB	STPDHB	-	-
④ S45C (STPAHR) S45C Equivalent (STPAHR) (STPBHR)	Hard Chrome Plating	Treated Hardness: 45 ~ 50HRC	STPAHR	STPBHR	STPDHR	-	-
⑤ SUS304	-	-	STPASU	STPBSU	STPDSU	-	SPFBSU
⑥ SUS440C Equivalent	-	Treated Hardness: 50 ~ 55HRC	STPAC	STPBC	STPDC	-	-

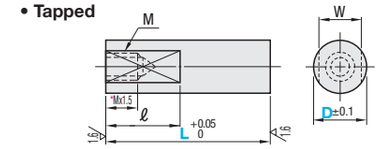
Hard Chrome Plating: Plating Hardness 750HV ~, Plating Thickness 3µm or more

Flat

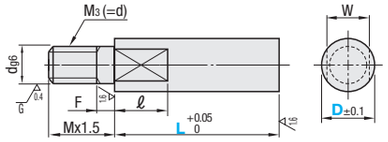
• Threaded



• Tapped



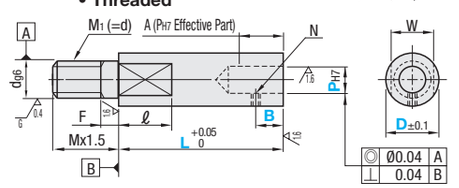
• Threaded with Pilot



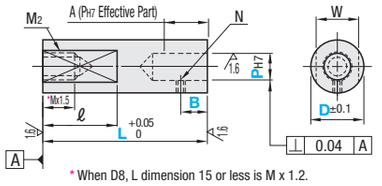
* When D8, L dimension 15 or less is M x 1.2.

Tip Set Screw

• Threaded



• Tapped



* When D8, L dimension 15 or less is M x 1.2.

The dispersion of L dimension should be within 0.02 for same orders.

Flat

Part Number Type			D	L 0.01mm Increment	M (Coarse)	d	M3 (Coarse)	F	W	ℓ
Threaded	Tapped	Pilot								
STPAB	STPBB	STPDB	6	10.00~50.00	M3	3	M3	1.5	5	8
STPAR	STPBR	STPDR	8		M5	5	M5	2	7	
STPAHB	STPBHB	STPDHB	10			6	M6	3	8	
STPAHR	STPBHR	STPDHR	12	20.00~80.00		8	M8	4	10	10
STPASU	STPBSU	STPDSU	15		M8	10	M10	5	13	
STPAC	STPBC	STPDC	20			12	M12		17	

Tip Set Screw

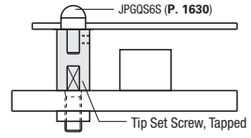
Part Number Type		D	L 0.01mm Increment	P Selection	B 0.5mm Increment	d	F	M1 (Coarse)	W	ℓ	A	M2 (Coarse)	N (Coarse)	Unit Price Tip Set Screw Threaded ① SPFAB	Threaded ⑤ SPFASU	Tapped ① SPFBB	Tapped ⑤ SPFBSU
Threaded	Tapped																
SPFAB	SPFBSU	12	20.00 (30.00)~80.00	6	4.0~6.0	8	4	M8	10	10	10	M5	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.

Ordering Example

Part Number - L - P - B
STPAB10 - L20.03 (Flat)
SPFAB12 - L20.01 - P6 - B5 (Tip Set Screw)

Example



D	Unit Price Threaded ① STPAB	② STPAR	③ STPAHB	④ STPAHR	⑤ STPASU	⑥ STPAC	Unit Price Tapped ① STPBB	② STPBR	③ STPBHB	④ STPBHR	⑤ STPBSU	⑥ STPBC	Unit Price Threaded with Pilot ① STPDB	② STPDR	③ STPDHB	④ STPDHR	⑤ STPDSU	⑥ STPDC
6																		
8																		
10																		
12																		
15																		
20																		