

Height Adjusting Pins - Round, Wrench Flats / Shouldered Threaded, Tapped

■ **Features:** Locating Pins for the height direction. O.D. and Height Configurable.

■ Round, Wrench Flats Threaded

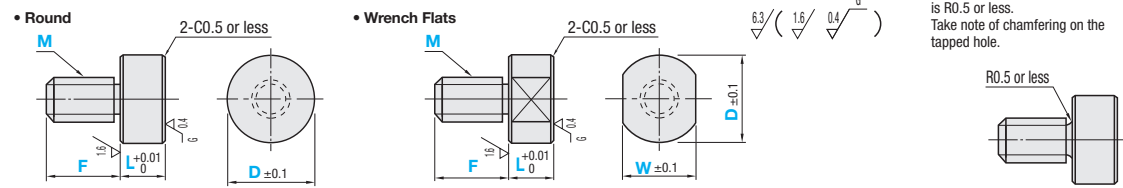


RoHS 10

M Material	S Surface Treatment	H Hardness	Type	Ordering Code, Shape Code F Fixed F Configurable
SKS3 Equivalent	-	Treated Hardness: 60 ~ 63HRC	JPH	AF (Round) AFM (Round)
	Black Oxide	Treated Hardness: 60 ~ 63HRC	BJPH	
	Hard Chrome Plating	Treated Hardness: 50 ~ 55HRC Plating Hardness: 750HV ~	HJPH	
SUS304	-	-	SJPH	AW (Wrench Flats) AWM (Wrench Flats)
SUS40C Equivalent	-	Treated Hardness: 50 ~ 55HRC	CJPH	
SCM415	-	Carburized Treated Hardness: 55HRC~ (Depth: 0.7 ~ 0.8)	TJPH	

Some combinations are not available. Refer to the price list to select the available combination.

* Under-head of F Configurable Type is R0.5 or less. Take note of chamfering on the tapped hole.



Part Number		L		W		F	
Type	Shape Code	M (Coarse)	* Tightening Torque N·cm	0.01mm Increment	1mm Increment	Standard	1mm Increment
JPH	<Round> AF (F Fixed) AFM (F Configurable)	3	98	2.00~10.00	5~30 (M<D<Mx5)	5	3~36 (M≤F≤Mx3)
BJPH		4	225			6	
HJPH		5	461			8	
SJPH	<Wrench Flats> AW (F Fixed) AWM (F Configurable)	6	784	5.00~30.00	5~30 (M<D<Mx5)	10	3~36 (M≤F≤Mx3)
CJPH		8	1911			12	
TJPH		10	3783			15	
		12	6605	10.00~50.00	5~30 (M<D<Mx5)	15	3~36 (M≤F≤Mx3)

M<W<D

*The tightening torque (ref. value) for hardened products is strength class 8.8. (See technical data on P. 2297.) Not applicable when using locking materials or lock washers.

■ Round

M (Coarse)	JPHAF	BJPHAF	HJPHAF	SJPHAF	CJPHAF	TJPHAF	JPHAFM	BJPHAFM	HJPHAFM	SJPHAFM	CJPHAFM	TJPHAFM
3												
4												
5												
6												
8												
10												
12												

■ Wrench Flats

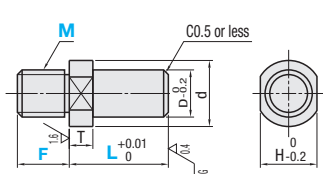
M (Coarse)	JPHAW	BJPHAW	HJPHAW	SJPHAW	CJPHAW	TJPHAW	JPHAWM	BJPHAWM	HJPHAWM	SJPHAWM	CJPHAWM	TJPHAWM
3												
4												
5												
6												
8												
10												
12												

■ Shouldered, Threaded



RoHS 10

M Material	S Surface Treatment	H Hardness	Type	
			F Fixed	F Configurable
SKS3 Equivalent	-	Treated Hardness: 60 ~ 63HRC	JPHA	JPHAM
	Black Oxide	Treated Hardness: 60 ~ 63HRC	BJPHA	BJPHAM
	Hard Chrome Plating	Treated Hardness: 50 ~ 55HRC Plating Hardness: 750HV ~	HJPHA	HJPHAM
SUS304	-	-	SJPHA	SJPHAM
SUS40C Equivalent	-	Treated Hardness: 50 ~ 55HRC	CJPHA	CJPHAM
SCM415	-	Carburized Treated Hardness: 55HRC~ (Depth: 0.7 ~ 0.8)	-	TJPHAM



* Under-head of F Configurable Type is R0.5 or less. Take note of chamfering on the tapped hole.

Part Number		* Tightening Torque N·cm		L	F		D	d	T	H
Type		M (Coarse)		0.01mm Increment	Standard	1mm Increment				
<F Fixed>	<F Configurable>	3	98	5.00~10.00	5	3~36 (M≤F≤Mx3)	3	5	3	3
JPHA	JPHAM	4	225		6		4	6		4
BJPHA	BJPHAM	5	461		8		5	8		5
HJPHA	HJPHAM	6	784	5.00~30.00			6	10	8	
SJPHA	SJPHAM	8	1911				8	12	10	
CJPHA	CJPHAM	10	3783		12		10	14	5	12
	TJPHAM	12	6605	15	12		16	14		

*The tightening torque (ref. value) for hardened products is strength class 8.8. (See technical data on P. 2297.) Not applicable when using locking materials or lock washers.

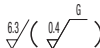
M (Coarse)	Unit Price F Fixed					Unit Price F Configurable					
	JPHA	BJPHA	HJPHA	SJPHA	CJPHA	JPHAM	BJPHAM	HJPHAM	SJPHAM	CJPHAM	TJPHAM
3											
4											
5											
6											
8											
10											
12											

■ Round, Wrench Flats Tapped

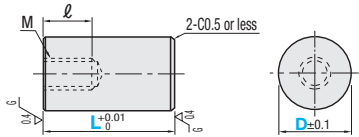


RoHS 10

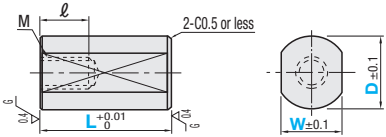
M Material	S Surface Treatment	H Hardness	Round	Wrench Flats
SKS3 Equivalent	-	Treated Hardness: 60 ~ 63HRC	JPHUF	JPHUW
	Black Oxide	Treated Hardness: 60 ~ 63HRC	BJPHUF	BJPHUW
	Hard Chrome Plating	Treated Hardness: 50 ~ 55HRC Plating Hardness: 750HV ~	HJPHUF	HJPHUW



• Round



• Wrench Flats



Part Number		L		W		M (Coarse)		* Tightening Torque N·cm		ℓ	
Type	Shape Code	D	0.01mm Increment	1mm Increment	1mm Increment	M (Coarse)	* Tightening Torque N·cm	ℓ			
<Round> JPHUF BJPHUF HJPHUF	<Wrench Flats> JPHUW BJPHUW HJPHUW	6	12.00~30.00	-	-	M3	98	5			
		8	16.00~30.00	-	-	M5	461	8			
		10	16.00~50.00	8~9	-	M8	1911	12			
		12	16.00~50.00	8~11	-						
		16	22.00~50.00	11~15	-						
		20	22.00~50.00	11~19	-						

M+2<W<D Wrench flats is D≥10.

*The tightening torque (ref. value) for hardened products is strength class 8.8. (See technical data on P. 2297.) Not applicable when using locking materials or lock washers.

D	JPHUF	BJPHUF	HJPHUF	JPHUW	BJPHUW	HJPHUW
6				-	-	-
8				-	-	-
10						
12						
16						
20						



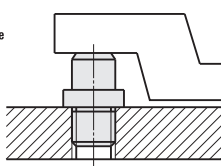
Ordering Example

Part Number - L - D - W - F

Round, Wrench Flats Threaded
(Round, F Fixed) JPHAF3 - 5.21 - 6
(Round, F Configurable) JPHAFM3 - L5.21 - D6 - F9
(Wrench Flats, F Fixed) HJPHAW10 - 20 - 15 - W11
(Wrench Flats, F Configurable) HJPHAWM10 - L20.00 - D15 - W11 - F15

Shouldered, Threaded
(F Fixed) JPHA8 - 14
(F Configurable) JPHAM8 - L14.00 - F10

EX Example



Alterations

Part Number - L - D - W - F - (CRC, EAT)
JPHAF10 - 20.50 - 25 - CRC
HJPHAWM10 - L15.00 - D20 - W20 - F15 - EAT

*Alterations are applicable to Threaded only.

Alterations		Radius to End Face		Seating Sensor Holes																						
Code		CRC		EAT																						
Spec.	Chamfering of workpiece receiving-surface is changed to R1. Ordering Code CRC ⊗ No addition of radius to wrench flats. ⊗ Applicable when L≥15.				Machines seating sensor holes on the work-receiving surface. Hole diameters are shown in the table below. Ordering Code EAT ⊗ Applicable when D≥6. ⊗ Application conditions vary depending on F and L dimensions.																					
					<table><tr><th>M</th><th>Narrow Hole Dia. d1</th><th>Through Hole Dia. d2</th><th>Applicable Overall Length Conditions</th></tr><tr><td>6</td><td>1.0</td><td>1.5</td><td>F+L≤20</td></tr><tr><td>8</td><td>1.0</td><td>2.5</td><td>F+L≤30</td></tr><tr><td>10</td><td>1.5</td><td>3.5</td><td>F+L≤40</td></tr><tr><td>12</td><td>1.5</td><td>4.5</td><td>F+L≤50</td></tr></table>		M	Narrow Hole Dia. d1	Through Hole Dia. d2	Applicable Overall Length Conditions	6	1.0	1.5	F+L≤20	8	1.0	2.5	F+L≤30	10	1.5	3.5	F+L≤40	12	1.5	4.5	F+L≤50
	M	Narrow Hole Dia. d1	Through Hole Dia. d2	Applicable Overall Length Conditions																						
6	1.0	1.5	F+L≤20																							
8	1.0	2.5	F+L≤30																							
10	1.5	3.5	F+L≤40																							
12	1.5	4.5	F+L≤50																							
																										