

# 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

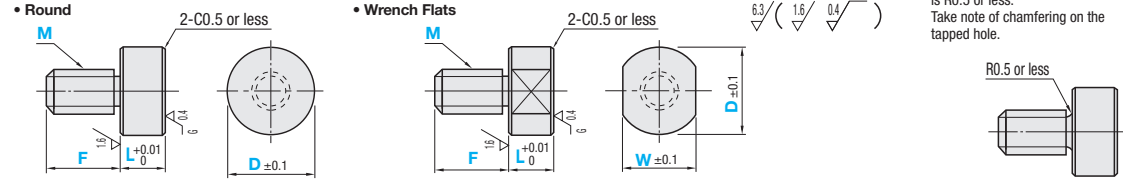


RoHS 10

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)
SUS440C or 13Cr stainless	-	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.  
⚠ SUS304 may not be polished.

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



Type	Shape Code	Part Number		L 0.01mm Increment	D 1mm Increment	W 1mm Increment	F	
		M (Coarse)	* Tightening Torque N·cm				Standard	1mm Increment
JPH	<Round>	3	98	2.00-10.00	5-30 (M<D<Mx5)	4-13	5	3-36 (M≤F≤Mx3)
BJPH	AF (F Fixed)	4	225					
HJPH	AFM (F Configurable)	5	461					
SJPH	<Wrench Flats>	6	784					
CJPH	AW (F Fixed)	8	1911					
TJPH	AWM (F Configurable)	10	3783					
		12	6605	10.00-50.00		13-29	15	

⚠ 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)	Unit Price F Fixed						Unit Price F Configurable					
	JPHAF	BJPHAF	HJPHAF	SJPHAF	CJPHAF	TJPHAF	JPHAFM	BJPHAFM	HJPHAFM	SJPHAFM	CJPHAFM	TJPHAFM
3												
4												
5												
6												
8												
10												
12												

## ■ Wrench Flats

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

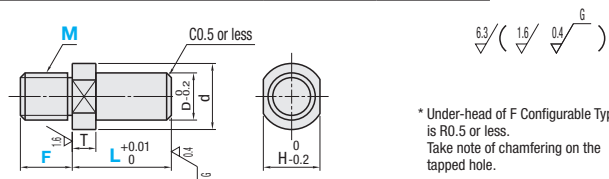
## ■ Shouldered, Threaded



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
SUS440C or 13Cr stainless	-	Treated Hardness: 50 ~ 55HRC	CJPHA	CJPHAM
SCM415	-	Carburized Treated Hardness: 55HRC- (Depth: 0.7 ~ 0.8)	TJPHA	TJPHAM

⚠ SUS304 may not be polished.



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

Type	Part Number		L 0.01mm Increment	D	d	T	H
	M (Coarse)	* Tightening Torque N·cm					
<F Fixed>	3	98	5.00-10.00	3	5	3	3
<F Configurable>	4	225					
JPHA	5	461	5.00-30.00	4	6	3	4
BJPHA	6	784					
HJPHA	8	1911	10.00-50.00	5	8	3	5
SJPHA	10	3783					
CJPHA	12	6605		6	10		8
				8	12		10
				10	14		12
				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	TJPHA	JPHAM	BJPHAM	HJPHAM	SJPHAM	CJPHAM	TJPHAM
3												
4												
5												
6												
8												
10												
12												

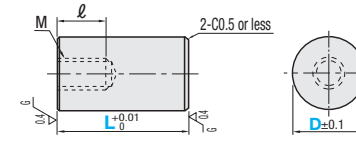
## ■ Round, Wrench Flats Tapped



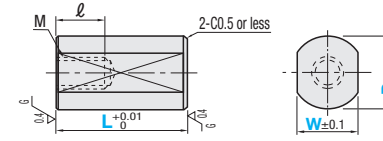
RoHS 10

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

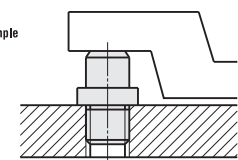
D	Unit Price Round		Unit Price Wrench Flats	
	JPHUF	BJPHUF	JPHUW	HJPHUW
6				
8				
10				
12				
16				
20				



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



■ Round, Wrench Flats Tapped  
(Round) JPHUF6 - 20.00  
(Wrench Flats) BJPHUW10 - 17.00 - W8



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 Code	Radius to End Face		Seating Sensor Holes																							
	CRC	EAT	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 border="1"> <thead> <tr> <th rowspan="2">M</th> <th colspan="2">Narrow Hole Dia.</th> <th rowspan="2">Through Hole Dia.</th> <th rowspan="2">Applicable Overall Length Conditions</th> </tr> <tr> <th>d1</th> <th>d2</th> </tr> </thead> <tbody> <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> </tbody> </table>		M	Narrow Hole Dia.		Through Hole Dia.	Applicable Overall Length Conditions	d1	d2	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
M	Narrow Hole Dia.		Through Hole Dia.	Applicable Overall Length Conditions																						
	d1	d2																								
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																							