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

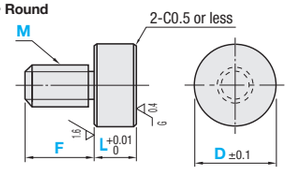
RoHS10

Material	Surface Treatment	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 Plating Thickness: 3µm or more	Treated Hardness: 50 ~ 55HRC Plating Hardness: 750HV ~	HJPH		
SUS304	-	-	SJPH	AW (Wrench Flats)	AWM (Wrench Flats)
SUS440C Equivalent	-	Treated Hardness: 50 ~ 55HRC	CJPH		
SCM415	-	Carburized Treated Hardness: 55HRC~ (Depth: 0.7 ~ 0.8)	TJPH		

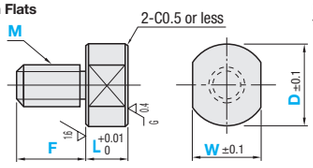
Some combinations are not available. Refer to the price list to select the available combination.

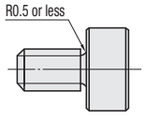
* Under-head of F Configurable Type is R0.5 or less. Take note of chamfering on the tapped hole.

• Round



• Wrench Flats





Part Number Type	Shape Code	M (Coarse)	* Tightening Torque N·cm	L 0.01mm Increment	D 1mm Increment	W 1mm Increment	F Standard	F 1mm Increment
JPH BJPH HJPH SJPH CJPH TJPH	<Round> AF (F Fixed) AFM (F Configurable) <Wrench Flats> AW (F Fixed) AWM (F Configurable)	3	147	2.00~10.00	5~30 (M<D<Mx5)	4~13	5	3~36 (M≤F≤Mx3)
		4	333			5~18	6	
		5	676			6~23	8	
		6	1156	5.00~30.00		7~28		
		8	2803			9~29	10	
		10	5557	10.00~50.00		11~29	12	
		12	9702			13~29	15	

M<W<D
* 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.

Round

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

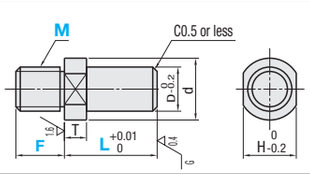
Wrench Flats

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

Shouldered, Threaded

RoHS10

Material	Surface Treatment	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 Plating Thickness: 3µm or more	Treated Hardness: 50 ~ 55HRC Plating Hardness: 750HV ~	HJPHA	HJPHAM
SUS304	-	-	SJPHA	SJPHAM
SUS440C 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 Type	M (Coarse)	* Tightening Torque N·cm	L 0.01mm Increment	F Standard	F 1mm Increment	D	d	T	H
<F Fixed> JPHA BJPHA HJPHA SJPHA CJPHA	<F Configurable> JPHAM BJPHAM HJPHAM SJPHAM CJPHAM TJPHAM	3	147	5.00~10.00	5	3~36 (M≤F≤Mx3)	3	5	3	3
		4	333		6		4	6		4
		5	676		8		5	8		5
		6	1156	5.00~30.00			6	10		8
		8	2803		10		8	12		10
		10	5557	10.00~50.00	12		10	14	5	12
		12	9702		15		12	16		14

* 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.

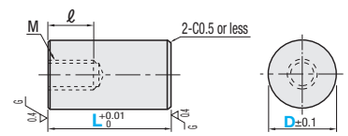
M (Coarse)	Unit Price F Fixed JPHA	BJPHA	HJPHA	SJPHA	CJPHA	Unit Price F Configurable JPHAM	BJPHAM	HJPHAM	SJPHAM	CJPHAM	TJPHAM
3											
4											
5											
6											
8											
10											
12											

Round, Wrench Flats Tapped

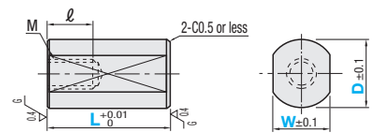
RoHS10

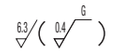
Material	Surface Treatment	Hardness	Round	Wrench Flats
SKS3 Equivalent	-	Treated Hardness: 60 ~ 63HRC	JPHUF	JPHUW
	Black Oxide	Treated Hardness: 60 ~ 63HRC	BJPHUF	BJPHUW
	Hard Chrome Plating Plating Thickness: 3µm or more	Treated Hardness: 50 ~ 55HRC Plating Hardness: 750HV ~	HJPHUF	HJPHUW

• Round



• Wrench Flats





Part Number Type	D	L 0.01mm Increment	W 1mm Increment	M (Coarse)	* Tightening Torque N·cm	ℓ
<Round> JPHUF BJPHUF HJPHUF	<Wrench Flats> JPHUW BJPHUW HJPHUW	6	12.00~30.00	-	M3	147	5
		8	16.00~30.00	-	M5	676	8
		10	16.00~50.00	8~ 9			
		12	16.00~50.00	8~11			
		16	22.00~50.00	11~15	M8	2803	12
		20	22.00~50.00	11~19			

M+2<W<D Wrench flats is D≥10.
* 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.

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

Ordering Example

Part Number - L - D - W - F

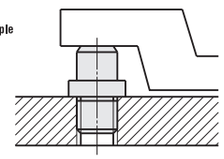
■Round, Wrench Flats Threaded
(Round, F Fixed) JPHAF3 - 5.21 - 6
(Round, F Configurable) JPHAFM3 - L5.21 - D6 - F9

(Wrench Flats, F Fixed) JPHAW10 - 20 - 15 - W11
(Wrench Flats, F Configurable) JPHAWM10 - 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

ex. Example

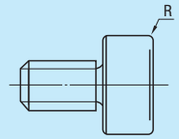


Alterations

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 Code	Radius to End Face CRC	Seating Sensor Holes 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.



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