

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



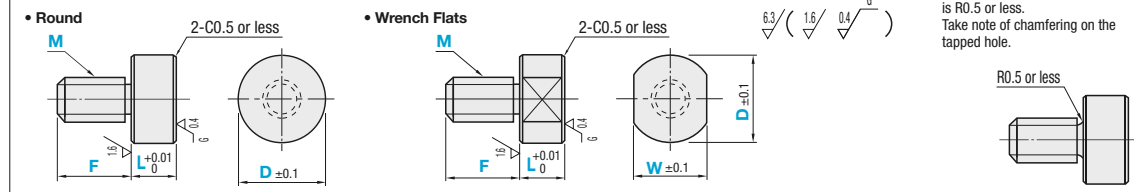
■ **Features:** Locating Pins for the height direction. O.D. and Height Configurable.

■ Round, Wrench Flats Threaded



RoHS

Material	Surface Treatment	Hardness	Type	
			Ordering Code, Shape Code F Fixed	F Configurable
EN 1.2510 Equiv.	-	Treated Hardness: 60 ~ 63HRC	JPH	
	Black Oxide	Treated Hardness: 60 ~ 63HRC	BJPH	
	Hard Chrome Plating Plating Thickness: 3µm or more	Treated Hardness: 50 ~ 55HRC Plating Hardness: 750HV ~	HJPH	AFM (Round)
EN 1.4301 Equiv.	-	-	SJPH	AWM (Wrench Flats)
EN 1.4125 Equiv.	-	Treated Hardness: 50 ~ 55HRC	CJPH	
EN 1.7242 Equiv.	-	Carburized Treated Hardness: 55HRC~ (Depth: 0.7 ~ 0.8)	TJPH	



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 BJPH HJPH SJPH CJPH TJPH	<Round>	3	147	2.00~10.00	5~30 (M<D<Mx5)	4~13 5~18 6~23 7~28 9~29 11~29 13~29	5 6 8 10 12 15	3~36 (M≤F≤Mx3)	
	AF (F Fixed)	4	333						
	AFM (F Configurable)	5	676						
	<Wrench Flats>	6	1156	5.00~30.00	5~30 (M<D<Mx5)	4~13 5~18 6~23 7~28 9~29 11~29 13~29	5 6 8 10 12 15		
	AW (F Fixed)	8	2803						
	AWM (F Configurable)	10	5557						
			12	9702	10.00~50.00				

Ⓜ-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						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

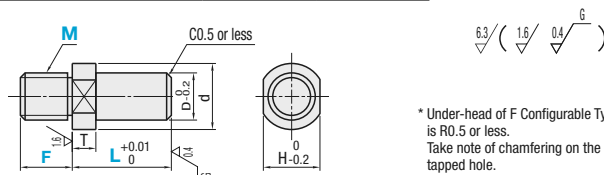
M (Coarse)	Unit Price F Fixed						Unit Price F Configurable					
	JPHAW	BJPHAW	HJPHAW	SJPHAW	CJPHAW	TJPHAW	JPHAWM	BJPHAWM	HJPHAWM	SJPHAWM	CJPHAWM	TJPHAWM
3												
4												
5												
6												
8												
10												
12												

■ Shouldered, Threaded



RoHS

Material	Surface Treatment	Hardness	Type	
			F Fixed	F Configurable
EN 1.2510 Equiv.	-	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
EN 1.4301 Equiv.	-	-	SJPHA	SJPHAM
EN 1.4125 Equiv.	-	Treated Hardness: 50 ~ 55HRC	CJPHA	CJPHAM
EN 1.7242 Equiv.	-	Carburized Treated Hardness: 55HRC~ (Depth: 0.7 ~ 0.8)	-	TJPHAM



Type	Part Number		L 0.01mm Increment	D	d	T	H
	M (Coarse)	* Tightening Torque N·cm					
<F Fixed>	3	147	5.00~10.00	3	5	3	3
<F Configurable>	4	333					
	5	676					
	6	1156	5.00~30.00	4	6	4	4
	8	2803					
	10	5557					
	12	9702	10.00~50.00	5	8	5	5

* 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						Unit Price F Configurable					
	JPHA	BJPHA	HJPHA	SJPHA	CJPHA	TJPHA	JPHAM	BJPHAM	HJPHAM	SJPHAM	CJPHAM	TJPHAM
3												
4												
5												
6												
8												
10												
12												

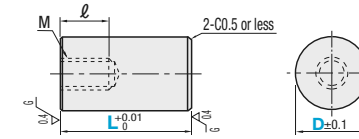
■ Round, Wrench Flats Tapped



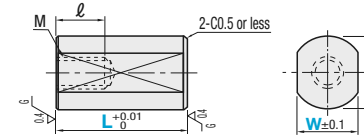
RoHS

Material	Surface Treatment	Hardness	Round	Wrench Flats
			Ordering Code, Shape Code F Fixed	F Configurable
EN 1.2510 Equiv.	-	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		W	M (Coarse)	* Tightening Torque N·cm	ℓ
		0.01mm Increment	1mm Increment				
<Round>	6	12.00~30.00	-	-	M3	147	5
<Wrench Flats>	8	16.00~30.00	-	-	M5	676	8
	10	16.00~50.00	8~9	-	M8	2803	12
	12	16.00~50.00	8~11	-			
	16	22.00~50.00	11~15	-			
	20	22.00~50.00	11~19	-			

Ⓜ+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.

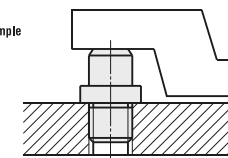
D	Unit Price Round			Unit Price Wrench Flats		
	JPHUF	BJPHUF	HJPHUF	JPHUW	BJPHUW	HJPHUW
6						
8						
10						
12						
16						
20						



Ordering Example Part Number - L - D - W - F
 (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
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.		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	