

Locating Pins

Fully Threaded Shank, Selectable Pilot

Feature: Screw-fitting type without pilot. Costs for hole machining on fixtures can be reduced.

Locating Pins – Fully Threaded Shank, Selectable Pilot



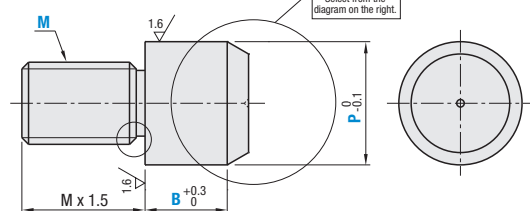
RoHS10

Material No.	Material	Surface Treatment	Hardness	Type
(1)	O1 Tool Steel Equivalent	—	60–63 HRC min.	JPNG
(2)	O1 Tool Steel Equivalent	Chrome Plating	50–55 HRC min. Plating Hardness 750 HV min.	GJPNG
(3)	O1 Tool Steel Equivalent	—	—	BJPNG
(4)	304 Stainless Steel Equivalent	—	—	SJPNG

6.3/(1.6/)

Pilot-Tip Shape	
A Shape	$\ell_1 = R\sqrt{R^2 - \frac{P^2}{4}}$
B Shape	$\ell_2 = \frac{P-G}{2 \tan 30^\circ}$ <p>Reference: $2 \tan 30^\circ = 1.15$</p> <p>⊖ When G=P, add about C0.2 chamfering.</p>
C Shape	$\ell_3 = \frac{P}{2} / \tan 30^\circ + R - (R / \sin 30^\circ)$ <p>Reference: $\tan 30^\circ = 0.577$ $\sin 30^\circ = 0.5$</p>

Tip Shapes
Select from the diagram on the right.



M	(a)	(d)
3	1.3	2.2
4	1.3	2.9
5	1.3	3.7
6	1.7	4.4
8	2.0	6
10	2.5	7.7
12	3.0	9.4
16	3.0	13
20	4.4	16.4

⊖ Above dimensions are for reference and not guaranteed.

Type	Tip Shape	M (Coarse)	P 0.1 mm Increment	B 0.1 mm Increment	R 1 mm Increment	G 1 mm Increment
					A Shape / C Shape Only	B Shape Only
JPNG GJPNG BJPNG SJPNG	A B C	3	3.5–8.0	1.0–10.0	A Shape R _z P/2	B Shape G=P
		4	4.5–8.0			
		5	5.5–8.0			
		6	6.5–10.0			
		8	9.0–15.0			
		10	11.0–17.0			
		12	13.0–20.0			
16	17.0–27.0	5.0–30.0				
20	21.0–30.0					

Part Number Example

Part Number	P	B	R	G
JPNGA3	P4	B2	R2	
JPNGB5	P6	B3		G3

Part Number Alterations

Part Number	P	B	R	G	(SC / LAC / RAC)
JPNGA3	P6	B2	R3		SC5

Alterations	Width Across Flats	Wrench Hole (Ø3.5)	Hexagon Socket																																							
Code	SC	LAC	RAC																																							
Spec.	SC=1 mm Increment Ordering Code: SC5 ⊖ When B≤11, adds width across flats on the tip. ⊖ P-3≤SC≤P-1, SC≥M	Adds a Ø3.5 hole. Ordering Code: LAC ⊖ Applicable when B≥10, P≥8.	Machines hexagonal socket. Ordering Code: RAC3 <table border="1"> <thead> <tr> <th>G</th> <th>B</th> <th>S Spec. Range</th> <th>S</th> <th>E</th> </tr> </thead> <tbody> <tr><td>4–5</td><td></td><td>2, 2.5</td><td>2</td><td>2</td></tr> <tr><td>6–7</td><td>10–</td><td>2, 2.5, 3, 4</td><td>2.5</td><td>2</td></tr> <tr><td>8–9</td><td></td><td>2, 2.5, 3, 4, 5</td><td>3</td><td>2</td></tr> <tr><td rowspan="2">10–30</td><td>10–12.9</td><td>2, 2.5, 3, 4, 5, 6</td><td>4</td><td>2.5</td></tr> <tr><td>13–</td><td>2, 2.5, 3, 4, 5, 6, 8</td><td>5</td><td>3</td></tr> <tr><td></td><td></td><td></td><td>6</td><td>4</td></tr> <tr><td></td><td></td><td></td><td>8</td><td>5</td></tr> </tbody> </table> ⊖ Applicable to Shape B with M≥6 only.	G	B	S Spec. Range	S	E	4–5		2, 2.5	2	2	6–7	10–	2, 2.5, 3, 4	2.5	2	8–9		2, 2.5, 3, 4, 5	3	2	10–30	10–12.9	2, 2.5, 3, 4, 5, 6	4	2.5	13–	2, 2.5, 3, 4, 5, 6, 8	5	3				6	4				8	5
G	B	S Spec. Range	S	E																																						
4–5		2, 2.5	2	2																																						
6–7	10–	2, 2.5, 3, 4	2.5	2																																						
8–9		2, 2.5, 3, 4, 5	3	2																																						
10–30	10–12.9	2, 2.5, 3, 4, 5, 6	4	2.5																																						
	13–	2, 2.5, 3, 4, 5, 6, 8	5	3																																						
			6	4																																						
			8	5																																						

Marker Pins

Hex Socket Type / With Flathead Slot

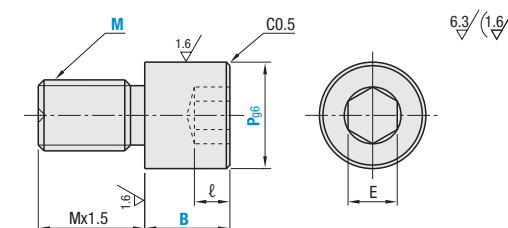
Feature: Hex hole enables easy mounting with a hex wrench.

Marker Pins – Hex Socket Type



RoHS10

Type	Material	Surface Treatment	Hardness
JPLR	1045 Carbon Steel Equivalent	—	—
JPLRM		Electroless Nickel Plating	—
JPLRK	304 Stainless Steel Equivalent	—	Treated Hardness: 50–55 HRC min.
JPLRS		—	—



P Tolerance

P	g6
5.0–6.0	-0.004 -0.012
6.1–10.0	-0.005 -0.014
10.1–15.0	-0.006 -0.017

Type	M (Coarse)	P 0.1 mm Increment	B 0.1 mm Increment	ℓ	E
JPLRM	4	5.0–8.0	6.5–10.0	2	2.5
JPLRK	5	6.0–12.0	6.5–10.0	2	3
JPLRS	6	6.5–15.0	6.5–12.0	2	3
	8	8.5–15.0	7.5–12.0	2.5	4
	10	10.5–15.0	8.5–12.0	3	5

⊖ Note that pins with small thread diameter have thin under-head part.

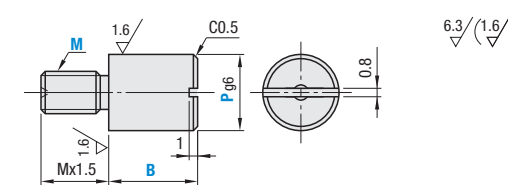
Feature: Flathead slot enables easy mounting with a screwdriver.

Marker Pins – With Flathead Slot



RoHS10

Type	Materials	Surface Treatment	Hardness
JPLB	1045 Carbon Steel Equivalent	—	—
JPLBM		Electroless Nickel Plating	—
JPLBK	304 Stainless Steel Equivalent	—	Treated Hardness: 50–55 HRC min.
JPLBS		—	—



P Tolerance

P	g6
3.0–6.0	-0.004 -0.012
6.1–10.0	-0.005 -0.014
10.1–15.0	-0.006 -0.017

Type	M (Coarse)	P 0.1 mm Increment	B 0.1 mm Increment	Available Types			
				JPLB	JPLBM	JPLBK	JPLBS
JPLB JPLBM JPLBK JPLBS	2	3.0–6.0	5.0–10.0	•	•	—	•
	3	3.5–7.0	2.0–10.0	•	•	•	•
	4	4.5–8.0	2.0–10.0	•	•	•	•
	5	5.5–12.0	2.0–10.0	•	•	•	•
	6	6.5–15.0	2.0–12.0	•	•	•	•
	8	8.5–15.0	2.0–12.0	•	•	•	•
10	10.5–15.0	2.0–12.0	•	•	•	•	

⊖ Note that pins with small thread diameter have thin under-head part.

* The tightening torque (ref. value) for hardened products is strength class 8.8. (See technical data on MISUMI 2019 catalog P.4015).

* Not applicable when using locking adhesives or lock washers.

Part Number Example

Part Number	P	B	Hexagon Socket Type
JPLR6	P8.5	B6.5	Hexagon Socket Type
JPLR8	P9.5	B3.2	With Flathead Slot

Application Example Use as guides for workpiece hitting on the side when shear load is not applied.

