

Locating Pins - Tip Shape Selectable

Full Threaded



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

(Alteration LAC)

RoHS 10

Material No.	Material	Surface Treatment	Hardness	Type
①	EN 1.2510 Equiv.	-	Treated Hardness: 60 ~ 63HRC	JPNG
②	EN 1.2510 Equiv.	Hard Chrome Plating	Treated Hardness: 50 ~ 55HRC / Plating Hardness: 750HV ~	GJPNG
③	EN 1.2510 Equiv.	-	-	BJPNG
④	EN 1.4301 Equiv.	-	-	SJPNG

Tip Shape

Select from the diagram on the right.

M	(a)	(d)
3	1.3	2.2
4	1.8	2.9
5	2	3.7
6	2.5	4.4
8	3.1	6
10	3.7	7.7
12	4.4	9.4
16	5	13
20	6.3	16.4

⚠Above dimensions are for reference, not guaranteed.

⚠There is no center hole.

Tip Shape

Shape A

$\ell_1 = R - \sqrt{R^2 - \frac{P^2}{4}}$

Shape B

$\ell_2 = 2 \tan 30^\circ$ Reference: $2 \tan 30^\circ = 1.15$
⚠When G=P, add about C0.2 chamfering.

Shape C

$\ell_3 = \frac{P}{\tan 30^\circ} + R - (R/\sin 30^\circ)$ Reference: $\tan 30^\circ = 0.577$ $\sin 30^\circ = 0.5$

Part Number				P 0.1mm Increment	B 0.1mm Increment	R 1mm Increment A Shape, C Shape only	G 1mm Increment B Shape only	Unit Price			
Type	Tip Shape	M (Coarse)	*Tightening Torque N·cm					①EN 1.2510 Equiv. Hardened JPNG	②Hard EN 1.2510 Equiv. GJPNG	③EN 1.2510 Equiv. BJPNG	④EN 1.4301 Equiv. SJPNG
JPNG GJPNG BJPNG SJPNG	A B C	3	98	3.5~6.0							
		4	225	4.5~7.0	1.0~10.0						
		5	461	5.5~8.0							
		6	784	6.5~10.0	1.0~12.0						
		8	1911	9.0~13.0	1.0~15.0						
		10	3783	11.0~15.0							
		12	6605	13.0~18.0	3.0~20.0						
		16	16366	17.0~25.0							
		20	32928	22.0~30.0	5.0~20.0						

* 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.

Ordering Example

Part Number - P - B - R - G

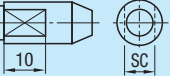
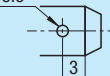
JPNGA3 - P4 - B2 - R2 - G3

JPNGB5 - P6 - B3 - - - G3

Alterations

Part Number - P - B - R - G - (SC, LAC, RAC)

JPNGA3 - P6 - B2 - R3 - SC5

Alterations	Wrench Flats	Wrench Hole (Ø3.5)	Hex Socket Machining																																		
																																					
Code	SC	LAC	RAC																																		
Spec.	SC=1mm Increment [Ordering Code] SC5 ⚠ When B≤11, adds wrench flats on the tip. ⚠ P-3≤SC≤P-1, SC≥M	Adds a Ø3.5 hole. [Ordering Code] LAC ⚠ Applicable when B≥10 and P≥8.	Machines hex sockets. [Ordering Code] RAC3 <table><tr><th>G</th><th>B</th><th>S Specifiable Range</th><th>S</th><th>E</th></tr><tr><td>4~5</td><td rowspan="3">10~</td><td>2, 2.5</td><td>2</td><td>2</td></tr><tr><td>6~7</td><td>2, 2.5, 3, 4</td><td>2.5</td><td>2</td></tr><tr><td>8~9</td><td>2, 2.5, 3, 4, 5</td><td>3</td><td>2</td></tr><tr><td rowspan="3">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 rowspan="2">13~</td><td rowspan="2">2, 2.5, 3, 4, 5, 6, 8</td><td>5</td><td>3</td></tr><tr><td>6</td><td>4</td></tr><tr><td></td><td></td><td></td><td>8</td><td>5</td></tr></table> ⚠ Applicable to Shape B with M≥6 only.	G	B	S Specifiable Range	S	E	4~5	10~	2, 2.5	2	2	6~7	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 Specifiable Range	S	E																																
4~5	10~	2, 2.5	2	2																																	
6~7		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, Flathead Slot

■Features: Hex hole enables easy mounting with a hex wrench.

RoHS 10

Material	Surface Treatment	Hardness	Type
EN 1.1191 Equiv.	-	-	JPLR
	Electroless Nickel Plating	-	JPLRM
EN 1.4301 Equiv.	-	Treated Hardness: 50 ~ 55HRC	JPLRK
	-	-	JPLRS

⚠EN 1.4301 Equiv. may not be polished and may have no centering hole.

⚠P Dim. Tolerance

P	ge
5.0~6.0	-0.004 -0.012
6.1~10.0	-0.005 -0.014
10.1~15.0	-0.006 -0.017

Part Number		P 0.1mm Increment	B 0.1mm Increment	l	E	Unit Price			
Type	M (Coarse)	* Tightening Torque N·cm				JPLR	JPLRM	JPLRK	JPLRS
JPLR JPLRM JPLRK JPLRS	3	98	5.0~6.0	6.5~10.0	2 2				
	4	225	5.0~7.0	6.5~10.0	2 2.5				
	5	461	6.0~8.0	6.5~10.0	2 3				
	6	784	6.5~10.0	6.5~12.0	2 3				
	8	1911	8.5~12.0	7.5~12.0	2.5 4				
	10	3783	10.5~15.0	8.5~12.0	3 5				

⚠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 [P. 2297](#).) Not applicable when using locking materials or lock washers.

■Features: Flathead slot enables easy mounting with a screwdriver.

RoHS 10

Material	Surface Treatment	Hardness	Type
EN 1.1191 Equiv.	-	-	JPLB
	Electroless Nickel Plating	-	JPLBM
EN 1.4301 Equiv.	-	Treated Hardness: 50 ~ 55HRC	JPLBK
	-	-	JPLBS

⚠EN 1.4301 Equiv. may not be polished and may have no centering hole.

⚠P Dim. Tolerance

P	ge
3.0~6.0	-0.004 -0.012
6.1~10.0	-0.005 -0.014
10.1~15.0	-0.006 -0.017

Part Number		P 0.1mm Increment	B 0.1mm Increment	Unit Price			
Type	M (Coarse)	* Tightening Torque N·cm		JPLB	JPLBM	JPLBK	JPLBS
JPLB JPLBM JPLBK JPLBS	2	-	3.0~5.0	5.0~10.0			
	3	98	3.5~6.0	2.0~10.0			
	4	225	4.5~7.0	2.0~10.0			
	5	461	5.5~8.0	2.0~10.0			
	6	784	6.5~10.0	2.0~12.0			
	8	1911	8.5~12.0	2.0~12.0			
	10	3783	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 [P. 2297](#).) Not applicable when using locking materials or lock washers.

Ordering Example

Part Number - P - B

JPLR6 - P8.5 - B6.5 (Hex Socket)

JPLB8 - P9.5 - B3.2 (Flathead Slot)

Example

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

