


Locating Pins - Shouldered

Tapered, Tapped

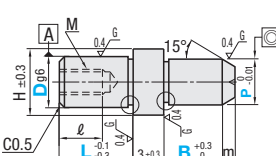
☞ For products uncovered by e-Catalog Standard, see **P.131**.

■ **Features:** Shouldered with the shape designed to be mounted from back using bolts. Improved maintainability compared to Press Fit Type.




Material No.	Material	Surface Treatment	Hardness	P Selectable		P, L, B Configurable	
				Type	Shape	Type	Shape
(1)	SKS3 Equivalent	-	Treated Hardness: 60-63HRC	JP	UB (Round)	FP	UA (Round)
(2)	SKS3 Equivalent	Hard Chrome Plating	Treated Hardness: 50-55HRC Plating Hardness: 750HV	-	DU (Diamond)	GFP	UD (Diamond)
(3)	SUS304	-	-	SJP	-	SFP	-


D	Tolerance μm	m	H	(W)	ℓ	W. Count	Tighten Torque N·cm
5	-0.004	-0.012	2	8	1.5	3	M2
6					1.8	5	M3
6T					4	M2.6	-
8					11	2.2	8
8T					11	2.2	M5
10					13	3	M4
10T					13	3	M4
12					15	3.2	M5
12T					15	3.2	M4
13					16	3.5	M8
13T					16	3.5	M6
16					19	4	M8
16T					19	4	M6
20					23	5.5	M8
20T					23	5.5	M6




(Round)



(Diamond)





Step on Machining

When D (P) ≥ 3 When D(P) < 3
a=1.0 a=0.5
d=D(P)-0.2 d=D(P)-0.1

☞ A machining step remains on the shoulder top for Diamond Shape.
☞ SUS304 may not be polished and may have no centering hole.
☞ Relief dimension is a reference value.

P Selectable

Part Number		D	P Selection	L	B	Unit Price Round Shape		Unit Price Diamond Shape	
Type	Shape					(1)Treated SKS3 JPUB	(3)SUS304 SJPUB	(1)Treated SKS3 JPDU	(3)SUS304 SJPDU
JP SJP	UB (Round) DU (Diamond)	5	3 4 5 6	10	5				
		6	4 5 6						
		6T							
		8	5 6 8	15	6				
		8T							
		10	8 10	22	8				
		12	8 10 12						
		13	8 10 12 13						
		16	13 14 15 16						
		20	16 20	30	10				
20T									

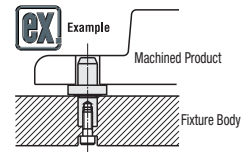
P, L, B Configurable

Part Number		D	P	L	B	Unit Price Round Shape			Unit Price Diamond Shape		
Type	Shape					(1)Treated SKS3 FPUA	(2)Hard SKS3 GFPUA	(3)SUS304 SFPUA	(1)Treated SKS3 FPUD	(2)Hard SKS3 GFPUA	(3)SUS304 SFPUD
FP GFP SFP	UA (Round) UD (Diamond)	5	3.00-6.00	5-10	2.0-15.0						
		6	4.00-7.00	6(9)-12	2.0-15.0						
		6T									
		8	5.00-9.00	8(12)-16	2.0-20.0						
		8T									
		10	7.00-12.00	10(12)-20	2.0-30.0						
		10T									
		12	7.00-12.00	12-24							
		12T									
		13	8.00-13.00	13(14)-26	3.0-30.0						
		13T									
		16	13.00-16.00	16-32							
16T											
20	16.00-20.00	20-40									
20T											

☞ Pins of D dimension with T have one size smaller thread diameter and larger wall thickness. (Actual D dimension is the number without "T")
☞ L dimension in () is applicable to Diamond Shape. ☞ Notes on the strength of under-head part. **P.1618** ☞ Please confirm pilot hole depth on **P.1618**. Holes may go through.

Ordering Example

Part Number	-	P	-	L	-	B
JPUB8	-	6				
FPUA6	-	P4.01	-	L8	-	B3.5



Alterations

Part Number	-	P	-	L	-	B	-	(HC, TC, RC, RAC, LAC)
FPUA6	-	P4.01	-	L8	-	B3.5	-	HC7.0

Alterations	Wrench Flats Alteration	Length of Tapered Point	Sphere Tip	Hex Socket Machining	Wrench Hole Machining																																																																																									
	HC	TC	RC	RAC	LAC																																																																																									
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Spec.	<p>HC = 0.5mm Increment ☞ HC > D HC > P (Ordering Code) HC10.0</p>	<p>Changes the m dimension. (Ordering Code) TC8 (1mm increment)</p> <table border="1"> <tr><th>D</th><th>TC</th><th>D</th><th>TC</th></tr> <tr><td>5</td><td>3-9</td><td>12</td><td>4-20</td></tr> <tr><td>6</td><td>3-11</td><td>13</td><td>5-22</td></tr> <tr><td>8</td><td>4-14</td><td>16</td><td></td></tr> <tr><td>10</td><td>4-18</td><td>20</td><td>6-23</td></tr> </table> <p>☞ B+m > TC+2 (Straight Section min. 2mm) ☞ P/2 - TC x tan15° > 0.5 (Tip 0.1 min.) ☞ B dimension changes when TC is specified. (Changed B dimension = B+m-TC) ☞ Combination with RAC or LAC is not available.</p>	D	TC	D	TC	5	3-9	12	4-20	6	3-11	13	5-22	8	4-14	16		10	4-18	20	6-23	<p>Changes the relief to R0.5. (Ordering Code) RC</p> <p>☞ Applicable when H-P ≥ 2. ☞ Combination with LAC is not available.</p>	<p>Machines hex sockets. (Ordering Code) RAC</p> <table border="1"> <tr> <th rowspan="2">D</th> <th colspan="3">Applicable Dimension Tapped</th> <th colspan="2">Hex Hole Dimensions</th> </tr> <tr> <th>P</th> <th>L</th> <th>B</th> <th>E</th> <th>S</th> </tr> <tr> <td>8 8T</td> <td>6.00-</td> <td>13-</td> <td></td> <td rowspan="2">2</td> <td rowspan="2">3</td> </tr> <tr> <td>10 10T</td> <td>7.00-</td> <td>13-</td> <td></td> </tr> <tr> <td>12 12T</td> <td>7.00-</td> <td>13-</td> <td></td> <td rowspan="2">2.5</td> <td rowspan="2">4</td> </tr> <tr> <td>13 13T</td> <td>9.00-</td> <td>15-</td> <td></td> </tr> <tr> <td>16 16T</td> <td>13.00-</td> <td>17-</td> <td></td> <td rowspan="2">3</td> <td rowspan="2">5</td> </tr> <tr> <td>20 20T</td> <td>16.00-</td> <td>20-</td> <td></td> </tr> </table> <p>☞ Applicable to P, L, B Dimension Configurable Type only. ☞ Round Shape is applicable to D ≥ 8, and Diamond Shape is applicable to D ≥ 10. ☞ Combination with TC or LAC is not available.</p>	D	Applicable Dimension Tapped			Hex Hole Dimensions		P	L	B	E	S	8 8T	6.00-	13-		2	3	10 10T	7.00-	13-		12 12T	7.00-	13-		2.5	4	13 13T	9.00-	15-		16 16T	13.00-	17-		3	5	20 20T	16.00-	20-		<p>Machines wrench holes. (Ordering Code) LAC</p> <table border="1"> <tr> <th>D</th> <th>Applicable Dim. B</th> <th>P</th> <th>Q</th> </tr> <tr> <td>8 8T</td> <td></td> <td>6.00-9.99</td> <td>2</td> </tr> <tr> <td>10 10T</td> <td></td> <td>10.00-16.99</td> <td>3.5</td> </tr> <tr> <td>12 12T</td> <td>5.0-</td> <td>17.00-</td> <td>5</td> </tr> <tr> <td>13 13T</td> <td></td> <td></td> <td></td> </tr> <tr> <td>16 16T</td> <td></td> <td></td> <td></td> </tr> <tr> <td>20 20T</td> <td>10.0-</td> <td></td> <td></td> </tr> </table> <p>☞ Round Shape is applicable to D ≥ 8 and P ≥ 6, and Diamond Shape to D ≥ 10 and P ≥ 8. ☞ Diamond Shape Hole is drilled on the diamond head vertically but with arbitrary orientation of its diamond surfaces against those of the diamond head. ☞ Combination with TC, RC or RAC is not available.</p>	D	Applicable Dim. B	P	Q	8 8T		6.00-9.99	2	10 10T		10.00-16.99	3.5	12 12T	5.0-	17.00-	5	13 13T				16 16T				20 20T	10.0-		
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