

Locating Pins (Large Head)

with Tapped Shank

Locating Pins – Large Head with Tapped Shank

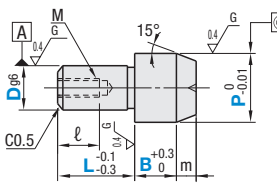


RoHS10

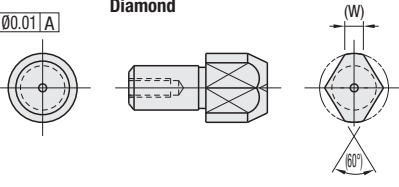
Materials No.	Material	Surface Treatment	Hardness	P Selectable		P Configurable		P, L, B Configurable	
				Type	Shape Code	Type	Shape Code	Type	Shape Code
(1)	O1 Tool Steel Equivalent	—	Treated Hardness: 60~63 HRC min.	JP	BTB Round	JP	BTA Round	FP	BTA Round
(2)	O1 Tool Steel Equivalent	Hard Chrome Plating	Hardness: 50~55 HRC min. Plating Hardness: 750 HV min.	GJP		GJP		GFP	
(3)	SKS3 Tool Steel or Equiv.	—	—	—		BJP		—	
(4)	304 Stainless Steel Equivalent	—	—	SJP		SJP		SFP	
(5)	304 Stainless Steel Equivalent	Hard Chrome Plating	Plating Hardness: 750 HV min.	HJP	DTB Diamond	—	BTD Diamond	HFP	BTD Diamond
(6)	440C or 420 Stainless Steel	—	Treated Hardness: 50~55 HRC min.	CJP		CJP		CFP	

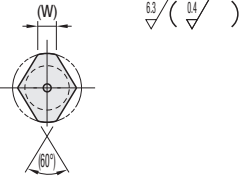
ⓘ Some combinations are not available. Refer to the price list to select the available combination.

Round



Diamond





ⓘ 440C or 420 Stainless Steel has an identification groove on D part.

P Selectable

Part Number			D Tolerance g6	P	L	B	m	(W)	M Coarse	ℓ			
Type	Shape	D											
JP GJP SJP HJP CJP	BTB Round	6	-0.004	8 10	10	8	3	3	M3	5			
		6T	-0.012	8 10					M2.6	4			
		8	-0.005	10 12 13					M5	8			
		8T		10 12 13					M4	6			
		10		12 13 15					M5	8			
	DTB Diamond	12	-0.006	13 15 16	15	10	4	5	M5	8			
		13		15 16				5.5					
		16		-0.017				20 25			7		
		20	-0.007	25 30				5			9	M8	12
			-0.020										

P Configurable

Part Number			D Tolerance g6	P 0.01 mm Increment	L	B	m	(W)	M Coarse	ℓ	
Type	Shape	D									
JP GJP BJP SJP CJP	BTA Round	5		5.50-8.00		6		2.2	M2	3	
		6	-0.004	6.50-10.00	10	8	3	3	M3	5	
		6T	-0.012	6.50-10.00					M2.6	4	
		8	-0.005	9.00-13.00					M5	8	
		8T		-0.014	9.00-13.00	M4	6				
	BTD Diamond	10		11.00-15.00	15	10	4	4	M5	8	
		12	-0.006	13.00-16.00							5
		13		-0.017							
		16		-0.007	17.00-25.00	7					
		20	-0.020	22.00-30.00	22		5	9	M8	12	
			30	15							

P, L, B Configurable

Part Number			D Tolerance g6	P	L	B	m	(W)	M	ℓ		
Type	Shape	D		0.01 mm Increment	1 mm Increment	0.1 mm Increment		Coarse				
FP GFP SFP HFP CFP	BTA Round	5	-0.004 -0.012	5.50–8.00	5 (9)–10	2.0–12.0	3	2.2	M2	3		
		6		6.50–10.00	6 (9)–12			3	M3	5		
		6T						M2.6	4			
		8	-0.005 -0.014	9.00–13.00	8 (12)–16 6 (12)–16	2.0–15.0	4	3.5	M5	8		
		8T						M4	6			
		10						11.00–15.00	10 (12)–20 6 (12)–16	3.0–20.0	4	M5
	10T	M4	6									
	12	13.00–16.00	12–24 8 (12)–18	3.0–20.0	5	M5						8
	12T					M4		6				
	13					-0.006 -0.017	14.00–18.00	13 (14)–26 8 (14)–20	5.0–20.0	5.5	M8	10
	13T	M6	9									
	16	-0.007 -0.020	17.00–25.00	16–32 10 (14)–24 20–40 12 (18)–30	5.0–20.0						5	7
	16T					M6	9					
	20					22.00–30.00	20–40 12 (18)–30	5.0–20.0	9	M8		12
	20T									M6		9

- ⓘ Pins with D value ending in T (ex. 8T) 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.
- ⓘ Note the strength of under-head part. **P.1542**
- ⓘ Please confirm pilot hole depth on **P.1542**. Holes may go through.
- * 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 agents or spring washers.

Locating Pins (Large Head)

with Tapped Shank, *continued*

P Selectable

D	Available Types for Round Shape					Available Types for Diamond Shape				
	(1) O1 Tool Steel Hardened JPBTB	(2) Hard O1 Tool Steel GJPBTB	(4) 304 Stainless Steel SJPBTB	(5) 304 Stainless Steel Hard HJPBTB	(6) 440C or 420 Stainless Steel CJPBTB	(1) O1 Tool Steel Hardened JPDTB	(2) Hard O1 Tool Steel GJPDTB	(4) 304 Stainless Steel SJPDTB	(5) 304 Stainless Steel Hard HJPDTB	(6) 440C or 420 Stainless Steel CJPDTB
6	•	•	•	•	•	•	•	•	•	•
6T	•	•	•	•	•	•	•	•	•	•
8	•	•	•	•	•	•	•	•	•	•
8T	•	•	•	•	•	•	•	•	•	•
10	•	•	•	•	•	•	•	•	•	•
12	•	•	•	•	•	•	•	•	•	•
13	•	•	•	•	•	•	•	•	•	•
16	•	•	•	•	•	•	•	•	•	•
20	•	•	•	•	•	•	•	•	•	•

P Configurable

D	Available Types for Round Shape					Available Types for Diamond Shape				
	(1) O1 Tool Steel Hardened JPBTA	(2) Hard O1 Tool Steel GJPBTA	(3) O1 Tool Steel BJPBTB	(4) 304 Stainless Steel SJPBTA	(6) 440C or 420 Stainless Steel CJPBTA	(1) O1 Tool Steel Hardened JPBTD	(2) Hard O1 Tool Steel GJPBTD	(3) O1 Tool Steel BJPBTD	(4) 304 Stainless Steel SJPBTD	(6) 440C or 420 Stainless Steel CJPBTD
5	•	•	•	•	•	•	•	—	•	•
6	•	•	•	•	•	•	•	—	•	•
6T	•	•	•	•	•	•	•	—	•	•
8	•	•	•	•	•	•	•	—	•	•
8T	•	•	•	•	•	•	•	—	•	•
10	•	•	•	•	•	•	•	—	•	•
12	•	•	•	•	•	•	•	—	•	•
12T	•	•	•	•	•	•	•	—	•	•
13	•	•	•	•	•	•	•	—	•	•
16	•	•	•	•	•	•	•	—	•	•
20	•	•	•	•	•	•	•	—	•	•

P, L & B Configurable

D	Available Types for Round Shape					Available Types for Diamond Shape				
	(1) O1 Tool Steel Hardened FPBTA	(2) Hard O1 Tool Steel GFPBTA	(4) 304 Stainless Steel SFPBTA	(5) 304 Stainless Steel Hard HFPBTA	(6) 440C or 420 Stainless Steel CFPBA	(1) O1 Tool Steel Hardened FPBTD	(2) Hard O1 Tool Steel GFPBTD	(4) 304 Stainless Steel SFPBTD	(5) 304 Stainless Steel Hard HFPBTD	(6) 440C or 420 Stainless Steel CFPBTD
5	•	•	•	•	•	•	•	•	•	•
6	•	•	•	•	•	•	•	•	•	•
6T	•	•	•	•	•	•	•	•	•	•
8	•	•	•	•	•	•	•	•	•	•
8T	•	•	•	•	•	•	•	•	•	•
10	•	•	•	•	•	•	•	•	•	•
10T	•	•	•	•	•	•	•	•	•	•
12	•	•	•	•	•	•	•	•	•	•
12T	•	•	•	•	•	•	•	•	•	•
13	•	•	•	•	•	•	•	•	•	•
13T	•	•	•	•	•	•	•	•	•	•
16	•	•	•	•	•	•	•	•	•	•
16T	•	•	•	•	•	•	•	•	•	•
20	•	•	•	•	•	•	•	•	•	•
20T	•	•	•	•	•	•	•	•	•	•



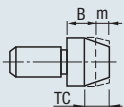
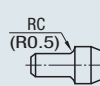
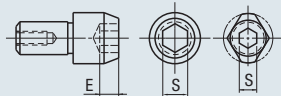
Part Number Example

Part Number			-	P	-	L	-	B
Type	Shape	D						
JP	BTB	6	-	8				
JP	BTA	10	-	12.10				
FP	BTA	10	-	P11.01	-	L12	-	B6.4



Part Number Alterations

Part Number	-	P	-	L	-	B	-	(TC / RC / RAC / LAC)
FPBPA10	-	P11.01	-	L12	-	B6.4	-	TC6

Alterations	Length of Tapered Point	Spherical Tip	Hex Socket Machining	Wrench Hole Machining																																																																																																															
																																																																																																																			
Code	TC	RC	RAC	LAC																																																																																																															
Spec.	Changes the m dimension. Ordering Code: TC8 (1 mm Increment)	Changes the relief to R0.5. Ordering Code: RC	Machines hex socket. Ordering Code: RAC	Machines wrench hole. Ordering Code: LAC																																																																																																															
	<table border="1"><thead><tr><th>D</th><th>TC</th><th>D</th><th>TC</th></tr></thead><tbody><tr><td>5</td><td>4-13</td><td>12</td><td>5-22</td></tr><tr><td>6</td><td>4-13</td><td>13</td><td>5-22</td></tr><tr><td>8</td><td>5-16</td><td>16</td><td>6-23</td></tr><tr><td>10</td><td>5-22</td><td>20</td><td>6-23</td></tr></tbody></table> ① B+m≥TC+2 (Straight Part min. 2 mm) ① P/2-TC x tan15°(=0.27)>0.5 (Tip Ø1.0min.) ① B Dimension changes when TC is specified. (Changed B dimension = B+m-TC) ⊗ Not applicable for P Dimension Selectable Type. ⊗ Combination with RAC and LAC is not available.	D	TC	D	TC	5	4-13	12	5-22	6	4-13	13	5-22	8	5-16	16	6-23	10	5-22	20	6-23	① Applicable when P-D≥2 ⊗ Not applicable for P Dimension Selectable Type. ⊗ Combination with RAC and LAC is not available.	<table border="1"><thead><tr><th rowspan="2">D</th><th colspan="3">Applicable Dimension</th><th colspan="2">Hex Hole Dimension</th></tr><tr><th>P</th><th>L</th><th>B</th><th>E</th><th>S</th></tr></thead><tbody><tr><td>5</td><td>6.00~</td><td>8~</td><td>6.0~</td><td>2</td><td>2</td></tr><tr><td>6, 6T</td><td>6.50 (8.00)~</td><td>10~</td><td>6.0~</td><td>2</td><td>3</td></tr><tr><td>8, 8T</td><td>9.00 (10.00)~</td><td>10~</td><td>10.0~</td><td>2.5</td><td>4</td></tr><tr><td>10, 10T</td><td>11.00 (12.00)~</td><td>12~</td><td>10.0~</td><td>3</td><td>5</td></tr><tr><td>12, 12T</td><td>13.00~</td><td>12~</td><td>12.0~</td><td>4</td><td>6</td></tr><tr><td>13, 13T</td><td>14.00~</td><td>15~</td><td>15.0~</td><td></td><td></td></tr><tr><td>16, 16T</td><td>17.00~</td><td>16~</td><td>15.0~</td><td>5</td><td>8</td></tr><tr><td>20, 20T</td><td>22.00~</td><td>20~</td><td>15.0~</td><td></td><td></td></tr></tbody></table> ① P dimension in () is applicable to diamond shape. ① Applicable to P, L and B Dimension Configurable only. ⊗ Combination with TC, RC and LAC is not available.	D	Applicable Dimension			Hex Hole Dimension		P	L	B	E	S	5	6.00~	8~	6.0~	2	2	6, 6T	6.50 (8.00)~	10~	6.0~	2	3	8, 8T	9.00 (10.00)~	10~	10.0~	2.5	4	10, 10T	11.00 (12.00)~	12~	10.0~	3	5	12, 12T	13.00~	12~	12.0~	4	6	13, 13T	14.00~	15~	15.0~			16, 16T	17.00~	16~	15.0~	5	8	20, 20T	22.00~	20~	15.0~			<table border="1"><thead><tr><th rowspan="2">D</th><th rowspan="2">Applicable Dimension B</th><th colspan="2">Wrench Hole Dimension</th></tr><tr><th>P</th><th>Q</th></tr></thead><tbody><tr><td>5</td><td rowspan="4">5.0~</td><td>5.50-9.99</td><td>2</td></tr><tr><td>6, 6T</td><td>10.00-16.99</td><td>3.5</td></tr><tr><td>8, 8T</td><td>17.00~</td><td>5</td></tr><tr><td>10, 10T</td><td></td><td></td></tr><tr><td>12, 12T</td><td rowspan="3">10.0~</td><td></td><td></td></tr><tr><td>13, 13T</td><td></td><td></td></tr><tr><td>16, 16T</td><td></td><td></td></tr><tr><td>20, 20T</td><td></td><td></td><td></td></tr></tbody></table> ① Orientation between diamond shape head and wrench hole is arbitrary. ⊗ Combination with TC, RC and RAC is not available.	D	Applicable Dimension B	Wrench Hole Dimension		P	Q	5	5.0~	5.50-9.99	2	6, 6T	10.00-16.99	3.5	8, 8T	17.00~	5	10, 10T			12, 12T	10.0~			13, 13T			16, 16T			20, 20T		
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13, 13T	14.00~	15~	15.0~																																																																																																																
16, 16T	17.00~	16~	15.0~	5	8																																																																																																														
20, 20T	22.00~	20~	15.0~																																																																																																																
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