

Locating Pins - Large Head, Tapered

Press Fit



■ Features: Tapered Head Standard Type. Press Fit. Economical and there is a variety of selections to choose from. Same day shipping available.

Material No.	Material	Surface Treatment	Hardness	P Selectable		P Configurable		P, L, B Configurable	
				Type	D Tolerance and Shape	Type	D Tolerance and Shape	Type	D Tolerance and Shape
①	EN 1.2510 Equiv.	-	Treated Hardness: 60 ~ 63HRC	JP	<Round>	JP	<Round>	FP	<Round>
②	EN 1.2510 Equiv.	Hard Chrome Plating	Treated Hardness: 50 ~ 55HRC Plating Hardness: 750HV ~	GJP	BB (m6)	GJP	BA (m6)	GFP	BA (m6)
③	EN 1.2510 Equiv.	-	-	BJP	BPB (p6)	BJP	BPA (p6)	BFP	BPA (p6)
④	EN 1.4301 Equiv.*	-	-	SJP	<Diamond>	SJP	<Diamond>	SFP	<Diamond>
⑤	EN 1.4301 Equiv.	Hard Chrome Plating	Plating Hardness: 750HV ~	HJP	DB (m6)	HJP (Round only)	BD (m6)	HFP	BD (m6)
⑥	EN 1.4037 Equiv.	-	Treated Hardness: 50 ~ 55HRC	CJP	DPB (p6)	CJP	BPD (p6)	CFP	DG (p6)

*For P Selectable Type, it is EN 1.4301 Equiv. equivalent.

(Round)

(Diamond)

① EN 1.4037 Equiv. has an identification groove at any position on D part.
② Polished, centering hole is sometimes not available for EN 1.4301 Equiv.

*The insertion guide is applicable to tolerance p6 only.

■ P Selectable

Type	D Tolerance and Shape	Part Number		P Selection	L	B	C	m	l	(W)	
		D	d dim. Tolerance								
JP GJP BJP SJP HJP CJP	<Round> BB (m6) BPB (p6)	1	+0.008	+0.012	2	3	0.1	0.5	0	-	
		2	+0.002	+0.006	3	4	0.5	1	1	1.2	
		3			4	5		2	2	1.5	
		4			5	6		3	3	1.8	
		5	+0.012	+0.020	6	7	1	3	3	2.2	
		6	+0.004	+0.012	7	8		4	4	2.2	
		8	+0.015	+0.024	8	9	10	8	1.5	1	3
		10	+0.006	+0.015	9	10		10	12	13	3.5
		12	+0.018	+0.029	10	11		15	12	13	4
		13	+0.007	+0.018	11	12		10	13	15	5
16	+0.021	+0.035	12	13		22	15	16	5.5		
20	+0.008	+0.022	13	14		25	16	18	7		
			16	17		30	15	20	25	9	

■ P Configurable

Type	D Tolerance and Shape	Part Number		P Selection	L	B	C	m	l	(W)
		D	d dim. Tolerance							
JP GJP BJP SJP HJP CJP	<Round> BA (m6) BPA (p6)	1	+0.008	+0.012	1.20-2.50	3	0.1	0.5	0	-
		2	+0.002	+0.006	2.50-4.00	4		1	1	1.2
		3			3.50-6.00	5	5	0.5	2	1.5
		4	+0.012	+0.020	4.50-7.00	6		1	3	1.8
		5	+0.004	+0.012	5.50-8.00	7	6		4	2.2
		6			6.50-10.00	8		1.5	1	3
		8	+0.015	+0.024	9.00-13.00	9	8		1.5	3.5
		10	+0.006	+0.015	11.00-15.00	10		2	4	4
		12	+0.018	+0.029	13.00-18.00	11		3	5	5
		13	+0.007	+0.018	14.00-18.00	12	10		2	5.5
16	+0.021	+0.035	17.00-25.00	13		3	5	7		
20	+0.008	+0.022	22.00-30.00	14	15		3	9		

■ P, L, B Configurable

Type	D Tolerance and Shape	Part Number			P Selection	L Increment	B Increment	C	m	l	(W)
		D	d dim. Tolerance	g6							
FP GFP BFP SFP HFP CFP	<Round> BA (m6) BPA (p6) BG (p6)	1	+0.008	+0.012	-0.002	1.20(1.50)-2.50	2, 3	1.0-5.0	0.1	0.5	0.6
		2	+0.002	+0.006	-0.008	2.50-4.00	2-6	1.0-10.0	0.5	1	1.2
		3				3.50-6.00	3-6	1.0-10.0		2	1.5
		4	+0.012	+0.020	-0.004	4.50-7.00	4-8	1.0-10.0		3	1.8
		5	+0.004	+0.012	-0.012	5.50-8.00	5-10	1.0-10.0	1	3	2.2
		6				6.50-10.00	6-12	1.0-12.0		1	3
		8	+0.015	+0.024	-0.005	9.00-13.00	8-16	1.0-15.0	1.5	3	3.5
		10	+0.006	+0.015	-0.014	11.00-15.00	10-20	3.0-20.0		4	4
		12	+0.018	+0.029	-0.006	13.00-18.00	12-24	3.0-20.0	2	4	5
		13	+0.007	+0.018	-0.017	14.00-18.00	13-26	5.0-20.0		5	5.5
16	+0.021	+0.035	-0.007	17.00-25.00	16-32	5.0-20.0		2	7		
20	+0.008	+0.022	-0.020	22.00-30.00	20-40	5.0-20.0	3	5	9		

① P dimension in () is applicable to Diamond Shape.

Ordering Example

Part Number: JP BB 6 - 10

JP BD 8 - 11.98

FP BA 10 - P12.02 - L10 - B3.2

FP BD 12 - P13.97 - L12 - B5

■ P Selectable

D	Unit Price Round Shape						Unit Price Diamond Shape					
	① EN 1.2510 Equiv. Hardened JPBB	② Hard EN 1.2510 Equiv. GJPBB	③ EN 1.2510 Equiv. BJPBB	④ EN 1.4301 Equiv. SJPBB	⑤ Hard EN 1.4301 Equiv. HJPBB	⑥ EN 1.4037 Equiv. CJPBB	① EN 1.2510 Equiv. Hardened JPDB	② Hard EN 1.2510 Equiv. GJPDB	③ EN 1.2510 Equiv. BJPDB	④ EN 1.4301 Equiv. SJPDB	⑤ Hard EN 1.4301 Equiv. HJPDB	⑥ EN 1.4037 Equiv. CJPDB
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2												
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8												
10												
12												
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16												
20												

■ P Configurable

D	Unit Price Round Shape						Unit Price Diamond Shape					
	① EN 1.2510 Equiv. Hardened JPBA	② Hard EN 1.2510 Equiv. GJPBA	③ EN 1.2510 Equiv. BJPBA	④ EN 1.4301 Equiv. SJPBA	⑤ Hard EN 1.4301 Equiv. HJPBA	⑥ EN 1.4037 Equiv. CJPBA	① EN 1.2510 Equiv. Hardened JPBD	② Hard EN 1.2510 Equiv. GJPBD	③ EN 1.2510 Equiv. BJPBD	④ EN 1.4301 Equiv. SJPBD	⑤ Hard EN 1.4301 Equiv. HJPBD	⑥ EN 1.4037 Equiv. CJPBD
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4												
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12												
13												
16												
20												

■ P, L, B Configurable

D	Unit Price Round Shape						Unit Price Diamond Shape					
	① EN 1.2510 Equiv. Hardened FPBA	② Hard EN 1.2510 Equiv. GFPBA	③ EN 1.2510 Equiv. BFPBA	④ EN 1.4301 Equiv. SFPBA	⑤ Hard EN 1.4301 Equiv. HFPBA	⑥ EN 1.4037 Equiv. CFPBA	① EN 1.2510 Equiv. Hardened FPBD	② Hard EN 1.2510 Equiv. GFPBD	③ EN 1.2510 Equiv. BFPBD	④ EN 1.4301 Equiv. SFPBD	⑤ Hard EN 1.4301 Equiv. HFPBD	⑥ EN 1.4037 Equiv. CFPBD
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Alterations

Part Number: P - L - B - (MH, NTK, TC, RC)

FPBPA10 - P11.01 - L12 - B6.4 - TC6

Alterations are not available for P Selectable Type.

Example

Alterations	Tapping	Removal Tap	Length of Tapered Point	Sphere Tip
	MH	NTK	TC	RC
Code	MH	NTK	TC	RC
Spec.	<p>Adds a tapped hole.</p> <p>Ordering Code: MH</p> <p>Applicable when D ≥ 6 B ≥ 2+4</p> <p>Combination with NTK is not available.</p>	<p>Removes a removal tap hole.</p> <p>Ordering Code: NTK</p> <p>Applicable when D ≥ 6</p> <p>Combination with MH, TC is not available.</p> <p>Effective tap length of D depends on B dimension specifiable range.</p> <p>When L+B+msMx3, the tapped holes go through.</p> <p>When L+B+msMx5, the pilot holes for tapping may go through.</p>	<p>Changes the m dimension.</p> <p>Ordering Code: TC8 (1mm increment)</p> <p>B+m ≥ TC+2 (Straight Section min. 2mm)</p> <p>Applicable when P ≥ 2.00</p> <p>P/2-TC x tan15° (=0.27) > 0.5 (Tip Ø1.0min.)</p> <p>B dimension changes when TC is specified. (Changed B dimension = B+m-TC)</p> <p>Combination with NTK is not available.</p>	<p>Changes the relief to R0.5.</p> <p>Ordering Code: RC</p> <p>Applicable when P-D ≥ 2</p>

The combination of Round and Diamond Shapes enables to locate accurately in A direction, and to absorb hole pitch errors of the mating hole in B direction.