

# Locating Pins - Large Head, Tapered Threaded



■ Features: Large Head, Tapered, Press Fit + Lock Nut Shape. Improved maintainability compared to the press fit type.

Material No.	Material	Surface Treatment	Hardness	P Selectable		P Configurable		P, L, B Configurable		P, L, B, ML Configurable	
				Type	Shape Code	Type	Shape Code	Type	Shape Code	Type	Shape Code
①	EN 1.2510 Equiv.	-	Treated Hardness: 60 ~ 63HRC	JPN		JPN		FPN		FPNL	
②	EN 1.2510 Equiv.	Hard Chrome Plating	Treated Hardness: 50 ~ 55HRC Plating Hardness: 750HV ~	-		GJPN		GFPN		GFPNL	
③	EN 1.2510 Equiv.	-	-	-	BB (Round)	-	-	BFPN	A (Round)	BFPNL	A (Round)
④	EN 1.4301 Equiv.	-	-	SJPN		SJPN	D (Diamond)	SFPN	D (Diamond)	SFPNL	D (Diamond)
⑤	EN 1.4301 Equiv.	Hard Chrome Plating	Plating Hardness: 750HV ~	-		HJPN		HFPN		HFPNL	
⑥	EN 1.4037 Equiv.	-	Treated Hardness: 50 ~ 55HRC	CJPN		CJPN		CFPN		CFPNL	

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

EN 1.4037 Equiv. has an identification groove at any position on D part.  
When L < Pitch x 2, the incomplete threaded portion (Pitch x 2) is included in ML.  
Coarse Thread Pitch Dims. **P.2292**

■ P Selectable

Type	Part Number	Shape	D	D dim. Tolerance g6	P Selection	L	B	ML	M (Coarse)	*Tightening Torque N·cm	m	(W)
JPN SJPN CJPN	BB (Round)	3	3	-0.002 -0.008	3.5 4 4.5 5 6	2	5	4.5	3	98	2	1.5
		4	4	-0.004 -0.012	4.5 5 6 7			6	4	225		
		5	5	-0.004 -0.012	6 7 8	3	6	7.5	5	461	3	2.2
		6	6	-0.005 -0.014	7 8 9 10			9	6	784		
		8	8	-0.005 -0.014	9 10 11 12 13	5	8	12	8	1911	4	3.5
		10	10	-0.007 -0.020	11 12 13			15	10	3783		

■ P Configurable

Type	Part Number	Shape	D	D dim. Tolerance g6	P	L	B	ML	M (Coarse)	*Tightening Torque N·cm	m	(W)	
JPN GJPN SJPN HJPN CJPN	A (Round) D (Diamond)	3	3	-0.002 -0.008	3.50~6.00	2	5	4.5	3	98	2	1.5	
		4	4	-0.004 -0.012	4.50~7.00			6	4	225			
		5	5	-0.004 -0.012	5.50~8.00	3	6	7.5	5	461	3	2.2	
		6	6	-0.005 -0.014	6.50~10.00			9	6	784			
		8	8	-0.005 -0.014	9.00~13.00	5	8	12	8	1911	4	3.5	
		10	10	-0.007 -0.020	11.00~15.00			15	10	3783			
		12	12	-0.006 -0.017	13.00~18.00	8	10	18	12	6605	5	5	
		16	16	-0.007 -0.020	17.00~25.00			24	16	16366			
		20	20	-0.007 -0.020	22.00~30.00	10	15	30	20	32928	5	7	9

■ P, L, B Configurable

Type	Part Number	Shape	D	D dim. Tolerance g6	P	L	B	ML	M (Coarse)	*Tightening Torque N·cm	m	(W)	
FPN GFPN BFPN SFPN HFPN CFPN	A (Round) D (Diamond)	3	3	-0.002 -0.008	3.50~6.00	2~6	1.0~10.0	4.5	3	98	2	1.5	
		4	4	-0.004 -0.012	4.50~7.00	2~8	1.0~10.0	6	4	225			
		5	5	-0.004 -0.012	5.50~8.00	3~10	1.0~10.0	7.5	5	461	3	2.2	
		6	6	-0.005 -0.014	6.50~10.00	3~10	1.0~12.0	9	6	784			
		8	8	-0.005 -0.014	9.00~13.00	5~10	1.0~15.0	12	8	1911	4	3.5	
		10	10	-0.007 -0.020	11.00~15.00	5~15	3.0~20.0	15	10	3783			
		12	12	-0.006 -0.017	13.00~18.00	8~15	3.0~20.0	18	12	6605	5	5	
		16	16	-0.007 -0.020	17.00~25.00	8~20	5.0~20.0	24	16	16366			
		20	20	-0.007 -0.020	22.00~30.00	10~20	5.0~20.0	30	20	32928	5	7	9

■ P, L, B, ML Configurable Thread length (ML) is configurable between Mx1 ~ Mx3 (max.).

Type	Part Number	Shape	D	D dim. Tolerance g6	P	L	B	ML 1mm Increment	M (Coarse)	*Tightening Torque N·cm	m	(W)	
FPNL GFPNL SFPNL CFPNL	A (Round) D (Diamond)	3	3	-0.002 -0.008	3.50~6.00	2~6	1.0~10.0	3~9	3	98	2	1.5	
		4	4	-0.004 -0.012	4.50~7.00	2~8	1.0~10.0	4~12	4	225			
		5	5	-0.004 -0.012	5.50~8.00	3~10	1.0~10.0	5~15	5	461	3	2.2	
		6	6	-0.005 -0.014	6.50~10.00	3~10	1.0~12.0	6~18	6	784			
		8	8	-0.005 -0.014	9.00~13.00	5~10	1.0~15.0	8~24	8	1911	4	3.5	
		10	10	-0.007 -0.020	11.00~15.00	5~15	3.0~20.0	10~30	10	3783			
		12	12	-0.006 -0.017	13.00~18.00	8~15	3.0~20.0	12~30	12	6605	5	5	
		16	16	-0.007 -0.020	17.00~25.00	8~20	5.0~20.0	16~40	16	16366			
		20	20	-0.007 -0.020	22.00~30.00	10~20	5.0~20.0	20~40	20	32928	5	7	9

\* 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 - L - B - ML

Example: JPN A 3 - 5.20  
 GFPN A 5 - P6.00 - L5 - B4.0  
 FPNL A 8 - P9.51 - L8 - B4.0 - ML8

■ P Selectable

D	Unit Price Round Shape		
	① EN 1.2510 Equiv. Hardened JPNBB	④ EN 1.4301 Equiv. SJPBB	⑥ EN 1.4037 Equiv. CJPNBB
3			
4			
5			
6			
8			
10			

■ P Configurable

D	Unit Price											
	Round Shape						Diamond Shape					
	① EN 1.2510 Equiv. Hardened JPNNA	② Hard EN 1.2510 Equiv. GJPNA	④ EN 1.4301 Equiv. SJPNNA	⑤ Hard EN 1.4301 Equiv. HJPNA	⑥ EN 1.4037 Equiv. CJPNA	① EN 1.2510 Equiv. Hardened JPNND	② Hard EN 1.2510 Equiv. GJPND	④ EN 1.4301 Equiv. SJPNND	⑤ Hard EN 1.4301 Equiv. HJPND	⑥ EN 1.4037 Equiv. CJPNND		
3												
4												
5												
6												
8												
10												
12												
16												
20												

■ P, L, B Configurable

D	Unit Price											
	Round Shape						Diamond Shape					
	① EN 1.2510 Equiv. Hardened FPNA	② Hard EN 1.2510 Equiv. GJPNA	④ EN 1.4301 Equiv. SJPNNA	⑤ Hard EN 1.4301 Equiv. HJPNA	⑥ EN 1.4037 Equiv. CJPNA	① EN 1.2510 Equiv. Hardened FPND	② Hard EN 1.2510 Equiv. GJPND	④ EN 1.4301 Equiv. SJPNND	⑤ Hard EN 1.4301 Equiv. HJPND	⑥ EN 1.4037 Equiv. CJPNND		
3												
4												
5												
6												
8												
10												
12												
16												
20												

■ P, L, B, ML Configurable (Unit price in the table is when Mx1 ≤ ML < Mx1.5. For price calculation, refer to the table on the right.)

D	Unit Price							
	Round Shape			Diamond Shape				
	① EN 1.2510 Equiv. Hardened FPNLA	② Hard EN 1.2510 Equiv. GFPNLA	④ EN 1.4301 Equiv. SFPNLA	⑥ EN 1.4037 Equiv. CFPNLA	① EN 1.2510 Equiv. Hardened FPNLD	② Hard EN 1.2510 Equiv. GFPNLD	④ EN 1.4301 Equiv. SFPNLD	⑥ EN 1.4037 Equiv. CFPNLD
3								
4								
5								
6								
8								
10								
12								
16								
20								

Price of P, L, B, ML Configurable Type  
Price is determined by length of ML.

ML	Unit Price
Mx1 ≤ ML < Mx1.5	Unit Price in the Table
Mx1.5 ≤ ML < Mx2	Unit Price in the Table x 1.05
Mx2 ≤ ML < Mx2.5	Unit Price in the Table x 1.1
Mx2.5 ≤ ML ≤ Mx3	Unit Price in the Table x 1.15

Example

For P, L, B, ML Configurable Type, the thread length is adjustable depending on environment and application.