


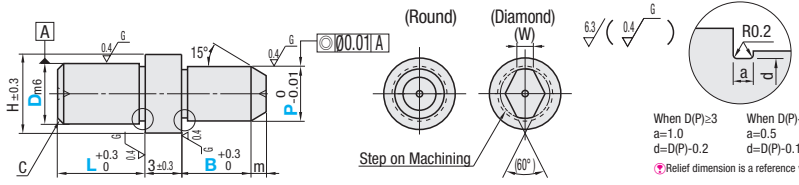
# Locating Pins - Shouldered

## Tapered Press Fit

■Features: Shouldered Standard Tapered Head. You can adjust the height of the locating target.



Material No.	Material	Surface Treatment	Hardness	P Selectable		P Configurable		P, L, B Configurable	
				Type	Shape Code	Type	Shape Code	Type	Shape Code
①	SKS3 Equivalent	-	Treated Hardness: 60 - 63HRC	JP	JB (Round)	JP	JA (Round)	FP	JA (Round)
②	SUS304	-	-	SJP	DJ (Diamond)	-	JA (Round)	SFP	JD (Diamond)
⑤	SUS400 Equivalent	-	Treated Hardness: 50 - 55HRC	-	-	-	-	CFP	-



When D(P)≥3 a=1.0 d=D(P)-0.2  
When D(P)<3 a=0.5 d=D(P)-0.1  
Relief dimension is a reference value.

Ⓜ A machining step remains on the shoulder top for Diamond Shape. Ⓜ SUS440C Equivalent has an identification groove at any position on D part.

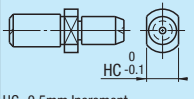
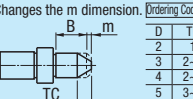
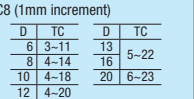
Part Number		D	D dim. Tolerance m6	P Selection						Unit Price Round Shape				Unit Price Diamond Shape			
Type	Shape			1	2	3	4	5	6	7	8	9	10	① SKS3 Hardened JPJB	③ SUS304 SJPJB	① SKS3 Hardened JPDJ	③ SUS304 SJPDJ
JP SJP	JB (Round) DJ (Diamond) Ⓜ Applicable when D<3.	2	+0.008	1	2	3	4	5	6	7	8	-	-	-	-	-	
		3	+0.002	2	3	4	5	6	7	8	9	-	-	-	-	-	
		4	-	3	4	5	6	7	8	9	10	-	-	-	-	-	
		5	+0.012	4	5	6	7	8	9	10	11	-	-	-	-	-	
		6	+0.004	5	6	7	8	9	10	11	12	-	-	-	-	-	
		8	+0.015	6	7	8	9	10	11	12	13	-	-	-	-	-	
		10	+0.006	7	8	9	10	11	12	13	14	-	-	-	-	-	
		12	-	8	9	10	11	12	13	14	15	-	-	-	-	-	
		13	+0.018	9	10	11	12	13	14	15	16	-	-	-	-	-	
		16	+0.007	10	11	12	13	14	15	16	17	-	-	-	-	-	
		20	+0.021	15	16	17	18	19	20	21	22	-	-	-	-	-	
			+0.008	20	21	22	23	24	25	26	27	-	-	-	-	-	

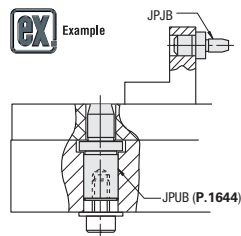
Part Number		D	D dim. Tolerance m6	P Selection						Unit Price Round Shape				Unit Price Diamond Shape			
Type	Shape			0.01mm Increment	L	B	C	m	H	W	① SKS3 Hardened JPJA	③ SUS304 SJPJA	⑤ SUS440C CFPJA	① SKS3 Hardened FPJD	③ SUS304 SFPJD	⑤ SUS440C CFPJD	
JP	JA (Round)	2	+0.008	1.00-2.00	4	2	0.5	0.5	-	-	-	-	-	-	-		
		3	+0.002	2.00-4.00	5	3	1	1	6	1.0	-	-	-	-	-		
		4	-	2.00-5.00	6	4	1	1	1.2	-	-	-	-	-	-		
		5	+0.012	3.00-6.00	7	5	1	2	8	1.5	-	-	-	-	-		
		6	+0.004	4.00-7.00	8	6	1.5	2	1.8	-	-	-	-	-	-		
		8	+0.015	5.00-9.00	9	7	1.5	3	11	2.2	-	-	-	-	-		
		10	+0.006	7.00-11.00	10	8	2	3	13	3	-	-	-	-	-		
		12	-	7.00-12.00	11	9	2	3	15	3.2	-	-	-	-	-		
		13	+0.018	8.00-13.00	12	10	2	4	16	3.5	-	-	-	-	-		
		16	+0.007	13.00-16.00	13	11	3	4	19	4	-	-	-	-	-		
		20	+0.021	16.00-20.00	14	12	3	5	23	5.5	-	-	-	-	-		

Part Number		D	D dim. Tolerance m6	P Selection			C	m	H	W	Unit Price Round Shape			Unit Price Diamond Shape		
Type	Shape			0.01mm Increment	1mm Increment	0.1mm Increment					① SKS3 Hardened FPJA	③ SUS304 SFPJA	⑤ SUS440C CFPJA	① SKS3 Hardened FPJD	③ SUS304 SFPJD	⑤ SUS440C CFPJD
FP SFP CFP	JA (Round) JD (Diamond) Ⓜ Applicable when D<3.	2	+0.008	1.00-2.00	2-4	2.0-10.0	0.5	0.5	-	-	-	-	-	-	-	
		3	+0.002	2.00-4.00	3-6	2.0-10.0	1	1	6	1.0	-	-	-	-	-	
		4	-	2.00-5.00	4-8	2.0-10.0	1	1	1.2	-	-	-	-	-	-	
		5	+0.012	3.00-6.00	5-10	2.0-10.0	1	2	8	1.5	-	-	-	-	-	
		6	+0.004	4.00-7.00	6-12	2.0-12.0	1.5	2	1.8	-	-	-	-	-	-	
		8	+0.015	5.00-9.00	8-16	2.0-15.0	1.5	3	11	2.2	-	-	-	-	-	
		10	+0.006	7.00-11.00	10-20	3.0-20.0	3	3	13	3	-	-	-	-	-	
		12	-	7.00-12.00	12-24	3.0-20.0	2	3	15	3.2	-	-	-	-	-	
		13	+0.018	8.00-13.00	13-26	5.0-20.0	2	4	16	3.5	-	-	-	-	-	
		16	+0.007	13.00-16.00	16-32	5.0-20.0	3	4	19	4	-	-	-	-	-	
		20	+0.021	16.00-20.00	20-40	5.0-20.0	3	5	23	5.5	-	-	-	-	-	

Ordering Example: Part Number - P - L - B  
JP JB 6 - 4  
JP JA 8 - 5.04  
FP JD 12 - P11.97 - L12 - B5.5

Alterations: Part Number - P - L - B - (HC, TC, RC)  
FPJA6 - P4.01 - L8 - B3.5 - HC7.0


Alterations Code	Wrench Flats Alteration	Length of Tapered Point	Sphere Tip
HC	Changes the m dimension.  HC=0.5mm Increment Ⓜ HC>D HC>P Ordering Code HC10.0	Changes the m dimension.  Ordering Code TC8 (1mm increment) D TC D TC D TC 2 1 6 3-11 13 3 2-5 8 4-14 16 5-22 4 2-7 10 4-18 20 6-23 5 3-9 12 4-20	Changes the relief to R0.5.  Ordering Code RC RC (R0.5) Ⓜ When H-P>2



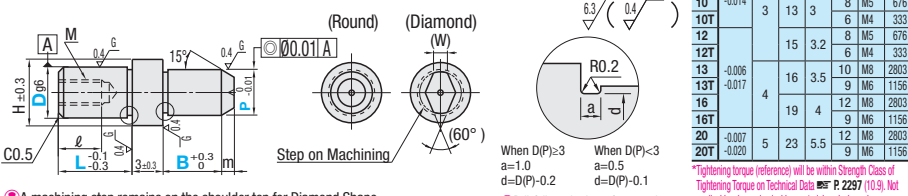
# Locating Pins - Shouldered

## Tapered, Tapped

■Features: Shouldered with the shape designed to be mounted from back using bolts. Improved maintainability compared to the press fit type.



Material No.	Material	Surface Treatment	Hardness	P Selectable		P Configurable		P, L, B Configurable	
				Type	Shape	Type	Shape	Type	Shape
①	SKS3 Equivalent	-	Treated Hardness: 60 - 63HRC	JP	UB (Round)	JP	UA (Round)	FP	UA (Round)
②	SKS3 Equivalent	Hard Chrome Plating (Plating Thickness: 3um or more)	Treated Hardness: 50 - 55HRC Plating Hardness: 750HV	SJP	DU (Diamond)	-	UA (Diamond)	GFP	UD (Diamond)
⑤	SUS304	-	-	-	-	-	-	SFP	-



When D(P)≥3 a=1.0 d=D(P)-0.2  
When D(P)<3 a=0.5 d=D(P)-0.1  
Relief dimension is a reference value.

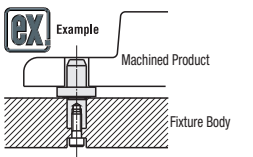
Ⓜ A machining step remains on the shoulder top for Diamond Shape.

Part Number		D	D dim. Tolerance m6	P Selection						Unit Price Round Shape				Unit Price Diamond Shape			
Type	Shape			0.01mm Increment	L	B	C	m	H	W	① SKS3 Hardened JPUB	③ SUS304 SJPUB	① SKS3 Hardened JPDU	③ SUS304 SJPDU	① SKS3 Hardened JPUA	③ SUS304 JPUA	① SKS3 Hardened JPUD
JP SJP	UB (Round) DU (Diamond)	5	3.00-6.00	5-10	2.0-10.0	-	-	-	-	-	-	-	-	-	-	-	-
		6	4.00-7.00	6(9)-12	2.0-10.0	-	-	-	-	-	-	-	-	-	-	-	-
		6T	-	4.00-7.00	6(9)-12	2.0-10.0	-	-	-	-	-	-	-	-	-	-	-
		8	5.00-9.00	8(12)-16	2.0-12.0	-	-	-	-	-	-	-	-	-	-	-	-
		8T	-	5.00-9.00	8(12)-16	2.0-12.0	-	-	-	-	-	-	-	-	-	-	-
		10	7.00-11.00	10(12)-20	2.0-15.0	-	-	-	-	-	-	-	-	-	-	-	-
		10T	-	7.00-11.00	10(12)-20	2.0-15.0	-	-	-	-	-	-	-	-	-	-	-
		12	7.00-12.00	12-24	3.0-20.0	-	-	-	-	-	-	-	-	-	-	-	-
		12T	-	7.00-12.00	12-24	3.0-20.0	-	-	-	-	-	-	-	-	-	-	-
		13	8.00-13.00	13(14)-26	3.0-20.0	-	-	-	-	-	-	-	-	-	-	-	-
		13T	-	8.00-13.00	13(14)-26	3.0-20.0	-	-	-	-	-	-	-	-	-	-	-
		16	13.00-16.00	16-32	5.0-20.0	-	-	-	-	-	-	-	-	-	-	-	-
		16T	-	13.00-16.00	16-32	5.0-20.0	-	-	-	-	-	-	-	-	-	-	-
		20	16.00-20.00	20-40	5.0-20.0	-	-	-	-	-	-	-	-	-	-	-	-
		20T	-	16.00-20.00	20-40	5.0-20.0	-	-	-	-	-	-	-	-	-	-	-

Part Number		D	D dim. Tolerance m6	P Selection			C	m	H	W	Unit Price Round Shape			Unit Price Diamond Shape		
Type	Shape			0.01mm Increment	L	B					0.1mm Increment	① SKS3 Hardened FPUA	② Hard SKS3 GFPUA	③ SUS304 SFPUA	① SKS3 Hardened FPUD	② Hard SKS3 GFPUA
FP GFP SFP	UA (Round) UD (Diamond)	5	3.00-6.00	5-10	2.0-10.0	-	-	-	-	-	-	-	-	-	-	
		6	4.00-7.00	6(9)-12	2.0-10.0	-	-	-	-	-	-	-	-	-	-	
		6T	-	4.00-7.00	6(9)-12	2.0-10.0	-	-	-	-	-	-	-	-	-	
		8	5.00-9.00	8(12)-16	2.0-12.0	-	-	-	-	-	-	-	-	-	-	
		8T	-	5.00-9.00	8(12)-16	2.0-12.0	-	-	-	-	-	-	-	-	-	
		10	7.00-11.00	10(12)-20	2.0-15.0	-	-	-	-	-	-	-	-	-	-	
		10T	-	7.00-11.00	10(12)-20	2.0-15.0	-	-	-	-	-	-	-	-	-	
		12	7.00-12.00	12-24	3.0-20.0	-	-	-	-	-	-	-	-	-	-	
		12T	-	7.00-12.00	12-24	3.0-20.0	-	-	-	-	-	-	-	-	-	
		13	8.00-13.00	13(14)-26	3.0-20.0	-	-	-	-	-	-	-	-	-	-	
		13T	-	8.00-13.00	13(14)-26	3.0-20.0	-	-	-	-	-	-	-	-	-	
		16	13.00-16.00	16-32	5.0-20.0	-	-	-	-	-	-	-	-	-	-	
		16T	-	13.00-16.00	16-32	5.0-20.0	-	-	-	-	-	-	-	-	-	
		20	16.00-20.00	20-40	5.0-20.0	-	-	-	-	-	-	-	-	-	-	
		20T	-	16.00-20.00	20-40	5.0-20.0	-	-	-	-	-	-	-	-	-	

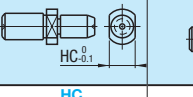
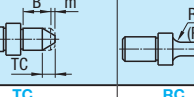
Ⓜ Pins of D dimension with T have one size smaller thread diameter and larger wall thickness. (Actual D dimension is the number without "T")  
Ⓜ L dimension in ( ) is applicable to Diamond Shape. Ⓜ Notes on the strength of under-head part. Ⓜ P.1566 Ⓜ Please confirm pilot hole depth on Ⓜ P.1566. Holes may go through.

Ordering Example: Part Number - P - L - B  
JPUB8 - 6  
JPUA6 - 4.02  
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 are not available for P Selectable Type.

Alterations	Wrench Flats Alteration	Length of Tapered Point	Sphere Tip	Hex Socket Machining	Wrench Hole Machining
HC	Changes the m dimension.  HC=0.5mm Increment Ⓜ HC>D HC>P Ordering Code HC10.0	Changes the m dimension.  Ordering			