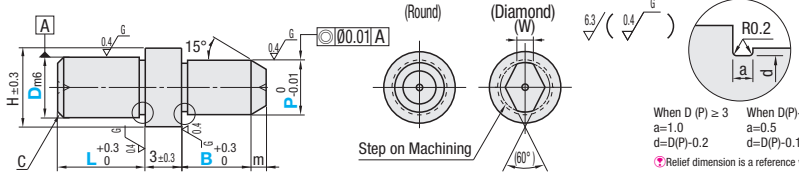


Locating Pins - Shouldered

Tapered Press Fit

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

Features: Shouldered Standard Tapered Head allows for height adjustment of the locating target.



Material No.	Material	Surface Treatment	Hardness	P Selectable		P, L, B Configurable	
				Type	Shape Code	Type	Shape Code
(1)	SKS3 Equivalent	-	Treated Hardness: 60~63HRC	JP	JB (Round)	FP	JA (Round)
(3)	SUS304	-	-	SJP	DJ (Diamond)	SFP	JD (Diamond)
(5)	SUS440C 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.

SUS440C Equivalent has an identification groove at any position on D part.
SUS304 may not be polished and may have no centering hole.

RoHS 10

P Selectable

Part Number				P Selection							Unit Price Round Shape		Unit Price Diamond Shape	
Type	Shape	D	D dim. Tolerance m6		L	B	C	m	H	(W)	(1)Treated SKS3 JPJB	(3)SUS304 SJPJB	(1)Treated SKS3 JPDJ	(3)SUS304 SJPDJ
JP SJP	JB (Round) DJ (Diamond) Applicable when D≥3.	2	+0.008	1 2	4	2	0.5	0.5	-	-				
		3	+0.002	2 3 4	5	3	1	1	1.0	6				
		4	+0.012	2 3 4 5	10	5	1	2	1.2	8				
		5	+0.004	3 4 5 6	15	8	2	3	1.5	11				
		6	+0.015	4 5 6	22	10	3	4	1.8	13				
		8	+0.006	5 6 8	30	15	4	5	2.2	16				
		10	+0.007	8 10	30	15	4	5	3	13				
		12	+0.018	8 10 12	30	15	4	5	3.2	15				
		13	+0.007	8 10 12 13	30	15	4	5	3.5	16				
		16	+0.021	13 14 15 16	30	15	4	5	4	19				
		20	+0.008	16 20	30	15	4	5	5.5	23				

P, L, B Configurable

Part Number				P 0.01mm Increment	L 1mm Increment	B 0.1mm Increment	C	m	H	(W)	Unit Price Round Shape			Unit Price Diamond Shape				
Type	Shape	D	D dim. Tolerance m6								(1) Treated SKS3 FPJA	(3) SUS304 SFPJA	(5) SUS440C CFPJA	(1) Treated SKS3 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	6	-				-		-		
		3	+0.002	2.00~4.00	3~6	2.0~10.0												
		4		2.00~5.00	4~8	2.0~10.0												
		5	+0.012 +0.004	3.00~6.00	5~10	2.0~15.0(10.0)	1	2	8	1.5								
		6		4.00~7.00	5~12	2.0~15.0				1.8								
		8	+0.015 +0.006	5.00~9.00	5~16	2.0~20.0(15.0)	1.5	3	11	2.2								
		10		7.00~12.00	8(10)~20	3.0~30.0(25.0)				2	15	3	3					
		12		7.00~12.00	10~24	3.0~30.0(25.0)							3.2					
		13	+0.018 +0.007	8.00~13.00	13~26	5.0~30.0(25.0)	3	4	16	3.5								
		16		13.00~16.00	16~32	5.0~30.0				4								
		20	+0.021 +0.008	16.00~20.00	20~40	5.0~30.0				5	23	5.5						

L, B dimensions in () are applicable to Diamond Shape.



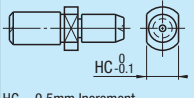
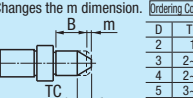
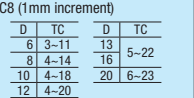
Ordering Example

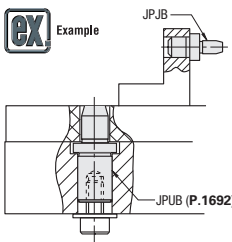
Part Number	Type	Shape	D	P	L	B
JP JB 6 - 4	JP	JB	6	-	4	-
FP JD 12 - P11.97 - L12 - B5.5	FP	JD	12	-	P11.97	-



Alterations

Part Number	Type	Shape	D	P	L	B	(HC, TC, RC, RAC, LAC)
FPJA6	FP	JA	6	-	P4.01	-	B3.5 - HC7.0

Alterations	Wrench Flats Alteration	Length of Tapered Point	Sphere Tip
Code	HC	TC	RC
Spec.			
	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 5~22 3 2~5 8 4~14 16 6~23 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 Applicable when H-P≥2.

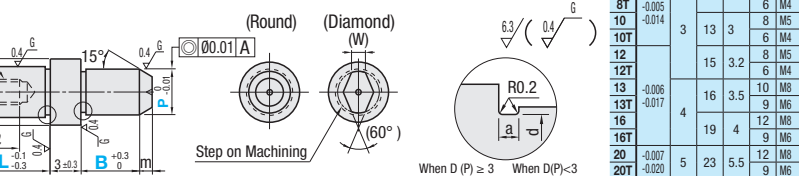
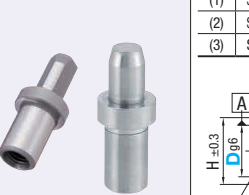


Locating Pins - Shouldered

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 Plating Thickness: 3um or more	Treated Hardness: 50~55HRC Plating Hardness: 750HV ~	-	DU (Diamond)	GFP	UD (Diamond)
(3)	SUS304	-	-	SJP	-	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.
SUS304 may not be polished and may have no centering hole.

RoHS 10

P Selectable

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

P, L, B Configurable

Part Number			P	L	B	Unit Price Round Shape			Unit Price Diamond Shape			
Type	Shape	D				0.01mm Increment	1mm Increment	0.1mm Increment	(1)Treated SKS3 FPUA	(2)Hard SKS3 GFPUA	(3)SUS304 SFPUA	(1)Treated SKS3 FPUD
FP GFP SFP	UA (Round)	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							
	UD (Diamond)	10T		8(12)~16								
		12	7.00~12.00	12~24								
		12T		8(12)~18	3.0~30.0							
		13	8.00~13.00	13(14)~26								
		13T		10(14)~20								
		16	13.00~16.00	16~32								
	16T		10(14)~24	5.0~30.0								
	20		20~40									
	20T	16.00~20.00	12(18)~30									

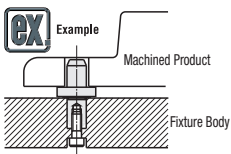
Pins of D dimension with T have one size smaller thread diameter and larger wall thickness. (Actual D dimension is the number without "T".)

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

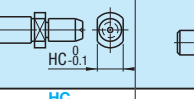
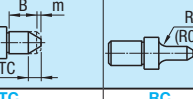
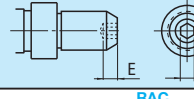
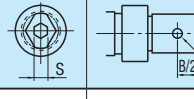
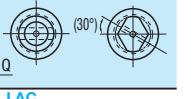
Part Number	Type	Shape	D	P	L	B
JPUB8	JP	UB	8	-	6	-
FPJA6	FP	JA	6	-	P4.01	-





Alterations

Part Number	Type	Shape	D	P	L	B	(HC, TC, RC, RAC, LAC)
FPJA6	FP	JA	6	-	P4.01	-	B3.5 - HC7.0

Alterations	Wrench Flats Alteration	Length of Tapered Point	Sphere Tip	Hex Socket Machining	Wrench Hole Machining
Code	HC	TC	RC	RAC	LAC
Spec.					
	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 5 3~9 12 4~20 6 3~11 13 5~22 8 4~14 16 6~23 10 4~18 20 6~23 B+m≥TC+2 (Straight Section min. 2mm) P/2 - TC x tan15° (≈0.27) > 0.5 (Tip Ø1.0 min.) B dimension changes when TC is specified. (Changed B dimension = B+m-TC) Combination with RAC or LAC is not available.	Changes the relief to R0.5. (Ordering Code) RC RC (R0.5) Applicable when H-P≥2. Combination with LAC is not available.	Machines hex sockets. (Ordering Code) RAC Applicable Dimension Tapped Hex Hole Dimensions D P L B E S 8 8T 6.00~ 13~ 2 3 10 10T 7.00~ 13~ 2 3 12 12T 7.00~ 13~ 2 3 13 13T 9.00~ 15~ 2.5 4 16 16T 13.00~ 17~ 3 5 20 20T 16.00~ 20~ 4 6 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.	Machines wrench holes. (Ordering Code) LAC Applicable Dim. B P Q 8 8T 6.00~9.99 2 10 10T 10.00~16.99 3.5 12 12T 17.00~ 5 13 13T 5.0~ 16 16T 10.0~ 20 20T 10.0~ 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.