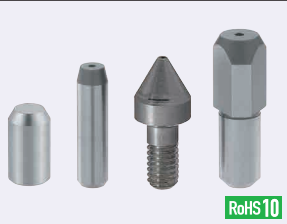


Locating Pins - Large Head, Tapered

Configurable Taper Angle / D and P Selectable Tolerance

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

Features: Large Head, Tapered, with the configurable dimension for each part. The tolerances on both ends and the tapered dimensions are also configurable.



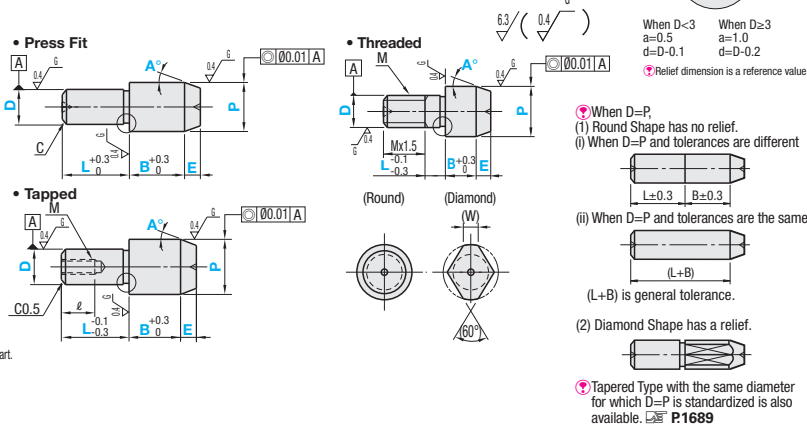
Material No.	Material	Surface Treatment	Hardness	Type			Shape Code
				Press Fit	Tapped	Threaded	
(1)	SKS3 Equivalent	-	Treated Hardness: 60~63HRC	KF	KFT	KFN	A (Round)
(2)	SKS3 Equivalent	Hard Chrome Plating	Treated Hardness: 50~53HRC Plating Hardness: 750HV~	GKF	GKFT	GKFN	
(3)	SKS3 Equivalent	-	-	BKF	BKFT	BKFN (Round only)	
(4)	SUS304	-	-	SKF	SKFT	SKFN	D (Diamond)
(5)	SUS304	Hard Chrome Plating	Plating Hardness: 750HV~	HKF	HKFT	HKFN	
(6)	SUS400 or 13Cr stainless	-	Treated Hardness: 50~53HRC	CKF	CKFT	-	



Tolerance Selection

D or P	Standard Grade					Precision Grade	
	M	P	G	H	S	A	B
1.00	+0.008	+0.012	-0.002	0	-	-	-
3.00	+0.002	+0.006	-0.008	-0.010	-	-	-
6.00	+0.012	+0.020	-0.004	0	-	-	-
10.00	+0.004	+0.012	-0.012	-0.012	-	-	-
18.00	+0.015	+0.024	-0.005	0	+0.005	0	-0.005
30.00	+0.006	+0.015	-0.014	-0.015	0	0	-0.005
60.00	+0.018	+0.029	-0.006	0	-	-	-
100.00	+0.007	+0.018	-0.017	-0.018	-	-	-
180.00	+0.021	+0.035	-0.007	0	-	-	-
300.00	+0.008	+0.022	-0.020	-0.021	-	-	-

The unit price of Precision Type is the price of Standard Type multiplied by 1.1.
 Hard Chrome Plating products are not available for Precision Grade Tolerance.
 SUS400 or 13Cr stainless has an identification groove at any position on D part.
 Polished, centering hole is sometimes not available for SUS304.
 P-2EtanA=0.73 (Tip dia. 0.0.73 or more)
 Reference: tan15°=0.267 tan30°=0.577
 tan45°=1 tan60°=1.732



Precision Grade Price
 When A and B tolerance is selected, multiply the unit price below by 1.1.

Ordering Example

Type	Shape	D Tol.	P Tolerance	D	P	L	B	E	A
KF	A	M	S	6	P10.00	L6	B3.0	E5.0	A30
GKFT	A	G	S	10T	P13.00	L6	B4.0	E10.0	A15
SKFN	D	G	B	12	P15.00	L12	B5.0	E7.0	A45

Press Fit

Type	Shape	Part Number		D	P			L	B	E	A	C	(W)
		Tolerance	P Tolerance		D	0.01mm Increment	1mm Increment						
KF GKF* BKFN SKFN HKFN* CKF	A (Round)	M P G H *A *B	S M P G H *A *B	1	1.25~3.25	2, 3	1.5~5.0	0.5~15.0	15	0.1	0.6	0.1	0.6
				2	2.00~6.00(4.00)	2~6	1.5~15.0(10.0)						
				3	3.00~8.00	3~10	1.5~15.0(10.0)						
				4	4.00~8.00	3(4)~14	1.5~15.0(10.0)						
				5	5.00~10.00	5~15	1.5~15.0(10.0)						
				6	6.00~10.00	5~15	1.5~30.0(15.0)						
	D (Diamond)	M P G H *A *B	S M P G H *A *B	8	8.00~15.00	5(6)~16	1.5~30.0(15.0)						
				10	10.00~17.00	5(10)~20	3.0~30.0(25.0)						
				12	12.00~18.00	6(10)~24	3.0~30.0(25.0)						
				13	13.00~20.00	7(12)~26	5.0~30.0(25.0)						
				16	16.00~27.00	8(15)~32	5.0~30.0						
				20	20.00~30.00	10(15)~40	5.0~30.0						

P, L, B dimensions in () are applicable to Diamond Shape. Hard Chrome Plating products are not available for * marked Precision Grade (Precision Grade A and B).

Tapped

Type	Shape	Part Number		D	P			L	B	E	A	(W)	M (Coarse)	Tightening Torque N·cm	l
		Tolerance	P Tolerance		D	0.01mm Increment	1mm Increment								
KFT GKFT BKFT SKFT HKFT CKFT	A (Round)	M P G H	S M P G H	5	5.00~8.00	5(9)~10	1.5~15.0(12.0)	0.5~15.0	15	2.2	M2	-	3		
				6	6.00~10.00	6(9)~12	1.5~15.0(12.0)								
				6T	6.00~10.00	6(9)~12	1.5~15.0(12.0)								
				8	8.50~15.00	8(12)~16	1.5~30.0(15.0)								
				8T	8.50~15.00	8(12)~16	1.5~30.0(15.0)								
				10	10.00~17.00	10(12)~20	3.0~30.0(20.0)								
	D (Diamond)	M P G H	S M P G H	10T	10.00~17.00	6(12)~16	3.0~30.0(20.0)								
				12	12.00~18.00	12~24	3.0~30.0(20.0)								
				12T	12.00~18.00	8(12)~18	3.0~30.0(20.0)								
				13	13.00~20.00	13(14)~26	5.0~30.0(20.0)								
				13T	13.00~20.00	8(14)~20	5.0~30.0(20.0)								
				16	16.00~27.00	16~32	5.0~30.0(27.0)								
20	M P G H	S M P G H	16T	16.00~27.00	10(14)~24	5.0~30.0(27.0)									
			20	20~40	20~40	5.0~30.0									
			20T	20.00~30.00	20~40	5.0~30.0									
			20T	20.00~30.00	12(18)~30	5.0~30.0									

Pins of D dimension with T have one size smaller thread diameter and larger wall thickness. (Actual D dimension is the number without "T".)
 Note the strength of under-head part. P.1618 P, L, B dimensions in () are applicable to Diamond Shape. Please confirm pilot hole depth on P.1618. Holes may go through.
 The tightening torque (ref. value) for hardened products is strength class 8.8. (See technical data on P.2365.) Not applicable when using locking materials or lock washers.

Threaded

Type	Shape	Part Number		D	P			L	B	E	A	M (Coarse)	Tightening Torque N·cm	(W)
		Tolerance	P Tolerance		D	0.01mm Increment	1mm Increment							
KFN GKFN* BKFN SKFN HKFN*	A (Round)	M P G H *A *B	S M P G H *A *B	3	3.50~8.00	2~6	2.0~10.0	0.5~15.0	15	M3	98	1.5		
				4	4.50~8.00	2~8	2.0~10.0							
				5	5.50~8.00	3~10	2.0~15.0(10.0)							
				6	6.50~10.00	3~10	2.0~15.0							
				8	8.50~15.00	5~10	2.0~30.0(15.0)							
				10	11.00~17.00	5~15	3.0~30.0(25.0)							
	D (Diamond)	M P G H *A *B	S M P G H *A *B	12	13.00~20.00(18.00)	5(8)~15	3.0~30.0(25.0)							
				16	17.00~27.00	5(8)~20	5.0~30.0							
				20	22.00~30.00	5(10)~20	5.0~30.0							
				20	22.00~30.00	5(10)~20	5.0~30.0							
				20	22.00~30.00	5(10)~20	5.0~30.0							
				20	22.00~30.00	5(10)~20	5.0~30.0							

P, L, B dimensions in () are applicable to Diamond Shape. Hard Chrome Plating products are not available for * marked Precision Grade (Precision Grade A and B).
 The tightening torque (ref. value) for hardened products is strength class 8.8. (See technical data on P.2365.) Not applicable when using locking materials or lock washers.

Press Fit

D	Unit Price Round Shape						Unit Price Diamond Shape					
	(1)Treated SKS3 KFA	(2)Hard SKS3 GKFA	(3)SKS3 BKFA	(4)SUS304 SKFA	(5)Hard SUS304 HKFA	(6)SUS440C or 13Cr stainless CKFA	(1)Treated SKS3 KFD	(2)Hard SKS3 GKFD	(3)SKS3 BKFD	(4)SUS304 SKFD	(5)Hard SUS304 HKFD	(6)SUS440C or 13Cr stainless CKFD
1												
2												
3												
4												
5												
6												
8												
10												
12												
13												
16												
20												

Tapped

D	Unit Price Round Shape						Unit Price Diamond Shape					
	(1)Treated SKS3 KFTA	(2)Hard SKS3 GKFTA	(3)SKS3 BKFTA	(4)SUS304 SKFTA	(5)Hard SUS304 HKFTA	(6)SUS440C or 13Cr stainless CKFTA	(1)Treated SKS3 KFTD	(2)Hard SKS3 GKFTD	(3)SKS3 BKFTD	(4)SUS304 SKFTD	(5)Hard SUS304 HKFTD	(6)SUS440C or 13Cr stainless CKFTD
5												
6												
6T												
8												
8T												
10												
10T												
12												
12T												
13												
13T												
16												
16T												
20												
20T												

Threaded

D	Unit Price Round Shape					Unit Price Diamond Shape				
	(1)Treated SKS3 KFNA	(2)Hard SKS3 GKfNA	(3)SKS3 BKfNA	(4)SUS304 SKfNA	(5)Hard SUS304 HKfNA	(1)Treated SKS3 KFND	(2)Hard SKS3 GKfND	(3)SKS3 BKfND	(4)SUS304 SKfND	(5)Hard SUS304 HKfND
3										
4										
5										
6										
8										
10										
12										
16										
20										

Alterations Part Number - P - L - B - E - A - (MH-etc.)
 KFAMS6 - P10.00 - L6 - B3.0 - E5.0 - A30 - GDC

Alterations	Tapping	Insertion Guide	Sphere Tip	Air Vent	Wrench Flats	Wrench Hole Machining
Code	MH	GDC	RC	AC	SC	LAC
Spec.	Adds a tapped hole. Ordering Code: MH	Adds the insertion guide. Ordering Code: GDC	Changes the relief to R0.5. Ordering Code: RC	Adds an air vent. Ordering Code: AC	SC = 1mm Increment P-3≤SC≤P-1, SC≥D When B=11, adds wrench flats on the tip. Not applicable to Press Fit Type.	Machines wrench holes. Ordering Code: LAC