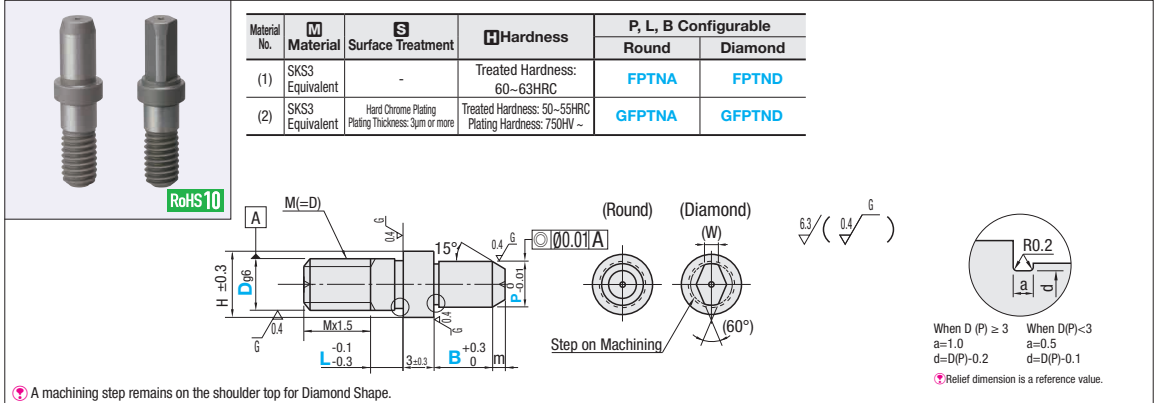


Locating Pins - Shouldered

Tapered, Threaded

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

Features: Shouldered, Press Fit + Lock Nut Type. Improved maintainability compared to Press Fit Type.



P, L, B Configurable

Part Number		P		L		B		m		H		W		M		Tightening Torque N·cm		Unit Price		Unit Price	
Type	D	D Tolerance g6	0.01mm Increment	1mm Increment	0.1mm Increment	m	H	(W)	M	(Coarse)	Tightening Torque N·cm	(1)Treated SKS3 FPTNA	(2)Hard SKS3 GFPTNA	(1)Treated SKS3 FPTND	(2)Hard SKS3 GFPTND						
(Round) FPTNA (Diamond) GFPTNA	3	-0.002 -0.008	2.00~4.00	2~6	2.0~10.0	1	6	1	M 3	147											
	4	-0.004 -0.012	2.00~5.00	2~8	2.0~10.0	1	6	1.2	M 4	333											
	5	-0.004 -0.012	3.00~6.00	3~10	2.0~15.0(10.0)	2	8	1.5	M 5	676											
	6	-0.005 -0.014	4.00~7.00	3~10	2.0~15.0	2	8	1.8	M 6	1156											
	8	-0.005 -0.014	5.00~9.00	5~10	2.0~20.0(15.0)	3	11	2.2	M 8	2803											
	10	-0.006 -0.017	7.00~11.00	5~15	3.0~30.0(25.0)	3	13	3	M10	5557											
	12	-0.006 -0.017	7.00~12.00	8~15	3.0~30.0(25.0)	4	15	3.2	M12	9702											
	16	-0.007 -0.020	13.00~16.00	8~20	5.0~30.0	4	19	4	M16	24108											
	20	-0.007 -0.020	16.00~20.00	10~20	5.0~30.0	5	23	5.5	M20	46942											

B dimension in () is applicable to Diamond Shape. * Tightening torque (reference) is of Tightening Torque Strength Class (10.9) indicated on Technical Data P.2365. Not applicable when using locking materials or lock washers.

Ordering Example: Part Number - P - L - B
FPTNA6 - P4.01 - L8 - B3.5

Alterations: Part Number - P - L - B - (HC, TC, RC, RAC, LAC)
FPTNA6 - P4.01 - L8 - B3.5 - HC7.0

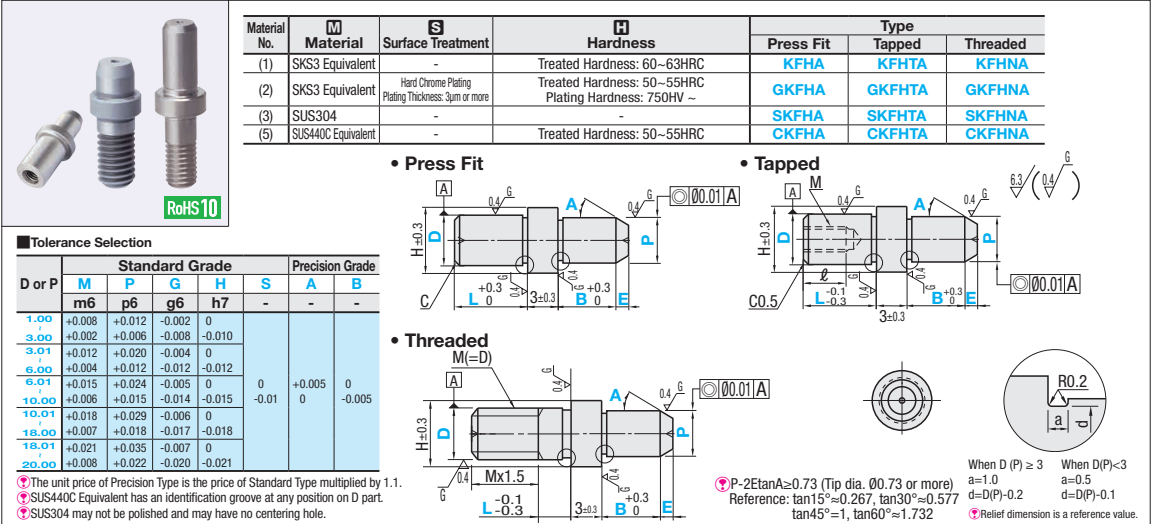
Alterations	Wrench Flats Alteration	Length of Tapered Point	Sphere Tip	Hex Socket Machining	Wrench Hole Machining
Code	HC	TC	RC	RAC	LAC
Spec.	HC = 0.5mm Increment HC>D HC>P (Ordering Code) HC10.0	Changes the relief to R0.5. (Ordering Code) TC8 (1mm increment) D TC D TC 6 3~11 13 5~22 8 4~14 16 10 4~18 20 6~23 12 4~20	Changes the relief to R0.5. (Ordering Code) RC Applicable when H-P≥2. Combination with LAC is not available.	Machines hex sockets. (Ordering Code) RAC Applicable Dimension D Threaded Hex Hole Dimensions P B E S 8 8T 6.00~ 3.5~ 2 3 10 10T 7.00~ 4.5~ 3 5 12 12T 7.00~ 6.0~ 4 6 13 13T - - 2.5 4 16 16T 13.00~ 4.5~ 3 5 20 20T 16.00~ 6.0~ 4 6	Machines wrench holes. (Ordering Code) LAC Applicable Dim. B P Q 6.00~9.99 2 10.00~16.99 3.5 17.00~ 5

Locating Pins - Shouldered

Taper Angle, D and P Selectable Tolerance

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

Features: Shouldered with each dimension configurable.



Press Fit

Part Number		P		L		B		E		A		C		H		Unit Price	
Type	D Tolerance	P Tolerance	D	0.01mm Increment	1mm Increment	0.1mm Increment	0.1mm Increment	0.1mm Increment	0.1mm Increment	A Selection	H	C	H	(1) KFHA	(2) GKFA	(3) SKFA	(5) CKFA
KFHA GKFA* SKFA CKFA	M P G H A B	S M P G H A B	2	1.00~2.00	2~4	2.0~10.0	2~4	2.0~10.0	2~4	15	30	45	60	0.5	6		
			3	2.00~4.00	3~6	2.0~10.0	3~6	2.0~10.0	3~6	15	30	45	60	1	8		
			4	2.00~5.00	4~8	2.0~10.0	4~8	2.0~10.0	4~8	15	30	45	60	1.5	11		
			5	3.00~6.00	5~10	2.0~15.0	5~10	2.0~15.0	5~10	15	30	45	60	2	13		
			6	4.00~7.00	5~12	2.0~15.0	5~12	2.0~15.0	5~12	15	30	45	60	2	15		
			8	5.00~9.00	5~16	2.0~20.0	5~16	2.0~20.0	5~16	15	30	45	60	2	16		
			10	7.00~11.00	8~20	3.0~30.0	8~20	3.0~30.0	8~20	15	30	45	60	3	19		
			12	7.00~12.00	10~24	3.0~30.0	10~24	3.0~30.0	10~24	15	30	45	60	3	23		

Hard Chrome Plating products are not available for * marked Precision Grade (Precision Grade A and B).

Tapped

Part Number				Unit Price													
Type	D Tolerance	P Tolerance	D	P 0.01mm Increment	L 1mm Increment	B 0.1mm Increment	E 0.1mm Increment	A Selection	H	M (Coarse)	(2) *Tighten. Torque N·cm	ℓ	(1) KFHTA	GKFHTA	(3) SKFHTA	(5) CKFHTA	
KFHTA GKFHTA SKFHTA CKFHTA	M P G H	S M P G H	6	4.00~7.00	6~12	2.0~15.0	0.5~10.0	15 30 45 60	8	M3	147	5					
			6T			4											
			8	5.00~9.00	8~16	2.0~20.0			11	M5	676	8					
			8T						13	M4	333	6					
			10	7.00~12.00	10~20	2.0~30.0			15	M5	676	8					
			12	7.00~12.00	12~24	3.0~30.0			13								
			13	8.00~13.00	13~26	3.0~30.0			16								
			16	13.00~16.00	16~32	5.0~30.0			20	M8	2803	10					
20	19.00~20.00	20~40	5.0~30.0	23													

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 Please confirm pilot hole depth on P.1618. Holes may go through.

* Tightening torque (reference) is of Tightening Torque Strength Class (10.9) indicated on Technical Data P.2365. Not applicable when using locking materials or lock washers.

Threaded

Part Number				P	L	B	E	A	H	M	*Tighten. Torque	Unit Price			
Type	D Tolerance	P Tolerance	D	0.01mm Increment	1mm Increment	0.1mm Increment	0.1mm Increment	A Selection		(Coarse)	N·cm	(1) KFHNA	(2) GKFHNA	(3) SKFHNA	(5) CKFHNA
KFHNA GKFHNA* SKFHNA CKFHNA	M P G H *A *B	S M P G H *A *B	3	2.00~4.00	2~6	2.0~10.0				M 3	147				
			4	2.00~5.00	2~8	2.0~10.0			6	M 4	333				
			5	3.00~6.00	3~10	2.0~15.0			8	M 5	676				
			6	4.00~7.00	3~10	2.0~15.0				M 6	1156				
			8	5.00~9.00	5~10	2.0~20.0			11	M 8	2803				
			10	7.00~11.00	5~15	3.0~30.0			13	M10	5557				
			12	7.00~12.00	6~15	3.0~30.0			15	M12	9702				
			16	13.00~16.00	8~20	5.0~30.0			19	M16	24108				
			20	16.00~20.00	10~20	5.0~30.0			23	M20	46942				
							0.5~10.0		15 30 45 60						

Hard Chrome Plating products are not available for * marked Precision Grade (Precision Grade A and B).

* Tightening torque (reference) is of Tightening Torque Strength Class (10.9) indicated on Technical Data P.2365. Not applicable when using locking materials or lock washers.

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

Ordering Example: Part Number - P - L - B - E - A
KFHA M S 6 - P6.00 - L6 - B3.0 - E3.0 - A30

Alterations: Part Number - P - L - B - E - A - (HC, RC)
KFHNA6 - P6.00 - L6 - B3.0 - E3.0 - A30 - RC

Alterations	Wrench Flats Alteration	Sphere Tip
Code	HC	RC
Spec.	HC = 0.5mm Increment HC>D HC>P (Ordering Code) HC10.0	Changes the relief to R0.5. (Ordering Code) RC Applicable when H-P≥2.