Shafts

One End Tapered, One End Tapped / One End Stepped and Tapped / One End Threaded

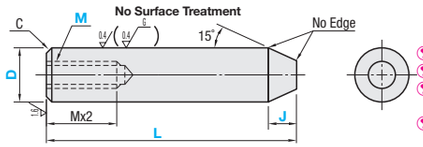
■One End Tapered, One End Tapped

RoHS10

Type		Material	Hardness	Surface Treatment
D Tol. g6	D Tol. h5			
SFTF	SFLU	EN 1.3505 Equiv.	Effective Hardened Depth of Induction Hardening P.112	-
SSFTF	SSFLU	EN 1.4125 Equiv.		
PSFTF	PSFLU	EN 1.3505 Equiv.	EN 1.3505 Equiv. 58HRC~	Hard Chrome Plating Plating Hardness: HV750 ~ Plating Thickness: 5μ or More ~
PSSFTF	PSSFLU	EN 1.4125 Equiv.	EN 1.4125 Equiv. 56HRC~	

D Tol.		
D	g6	h5
6	-0.004 -0.012	0 -0.005
8	-0.005 -0.014	0 -0.006
10		

D Tol.		
D	g6	h5
12	-0.006 -0.017	0 -0.008
13		
15		
16		
18		
20	-0.007 -0.020	0 -0.009

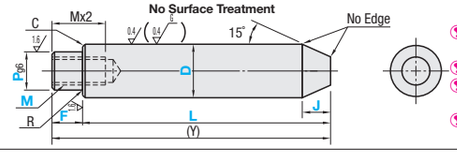


- Hardness of J+10 area will be lower due to annealing required for machining.
- Case hardening and plating layers do not remain on the tapered area.
- L Dimension Tolerance, Circularity, Straightness, Perpendicularity, Concentricity and Changes in Hardness P.111
- Annealing may lower hardness at shaft end machined areas (effective thread length + approx. 10mm).

■One End Tapered, One End Stepped and Tapped

RoHS10

Type		Material	Hardness	Surface Treatment
D Tol. g6	D Tol. h5			
SFTG	SFJU	EN 1.3505 Equiv.	Effective Hardened Depth of Induction Hardening P.112	-
SSFTG	SSFJU	EN 1.4125 Equiv.		
PSFTG	PSFJU	EN 1.3505 Equiv.	EN 1.3505 Equiv. 58HRC~	Hard Chrome Plating Plating Hardness: HV750 ~ Plating Thickness: 5μ or More ~
PSSFTG	PSSFJU	EN 1.4125 Equiv.	EN 1.4125 Equiv. 56HRC~	

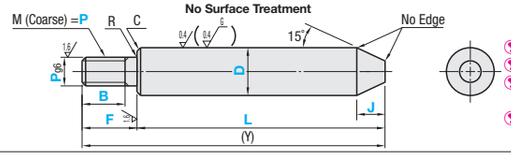


- Hardness of J+10 area will be lower due to annealing required for machining.
- Case hardening and plating layers do not remain on the tapered area.
- L Dimension Tolerance, Circularity, Straightness, Perpendicularity, Concentricity and Changes in Hardness P.111
- Annealing may lower hardness at shaft end machined areas (effective thread length + approx. 10mm).

■One End Tapered, One End Threaded

RoHS10

Type		Material	Hardness	Surface Treatment
D Tol. g6	D Tol. h5			
SFTN	SFKU	EN 1.3505 Equiv.	Effective Hardened Depth of Induction Hardening P.112	-
SSFTN	SSFKU	EN 1.4125 Equiv.		
PSFTN	PSFKU	EN 1.3505 Equiv.	EN 1.3505 Equiv. 58HRC~	Hard Chrome Plating Plating Hardness: HV750 ~ Plating Thickness: 5μ or More ~
PSSFTN	PSSFKU	EN 1.4125 Equiv.	EN 1.4125 Equiv. 56HRC~	



- Hardness of J+10 area will be lower due to annealing required for machining.
- Case hardening and plating layers do not remain on the tapered area.
- L Dimension Tolerance, Circularity, Straightness, Perpendicularity, Concentricity and Changes in Hardness P.111
- Annealing may lower hardness at shaft end machined areas (effective thread length + approx. 10mm).

■One End Tapered, One End Tapped

Part Number Type		D	1mm Increment L	J	M (Coarse) Selection	C
(D Tolerance g6)	(D Tolerance h5)					
SFTF	SFLU	6	25~200	5~7	3	0.5 or Less
SSFTF	SSFLU	8	25~200	5~10	3 4 5	
PSFTF	PSFLU	10	30~200	5~14	3 4 5 6	
PSSFTF	PSSFLU	12	40~300	5~18	4 5 6 8	
		13	40~300	5~20	4 5 6 8	
		15	50~300	10~24	4 5 6 8	
		16	50~500	10~25	4 5 6 8 10	
		18	60~500	10~28	4 5 6 8 10 12	
		20	60~500	10~32	4 5 6 8 10 12	1.0 or Less

L requires L-J≥20.

■One End Tapered, One End Stepped and Tapped

Part Number Type		D	1mm Increment L	F	P	J	M (Coarse) Selection	(Y) Max.	R	C
(D Tolerance g6)	(D Tolerance h5)									
SFTG	SFJU	8	25~198	2≤F≤Px4	6	5~10	3	200	0.3 or Less	0.5 or Less
SSFTG	SSFJU	10	30~198		6~8	5~14	3 4 5	200		
PSFTG	PSFJU	12	40~298		6~10	5~18	3 4 5 6	300		
PSSFTG	PSSFJU	13	40~298		6~11	5~20	3 4 5 6 8	300		
		15	50~298		6~13	10~24	3 4 5 6 8 10	300		
		16	50~498		6~14	10~25	3 4 5 6 8 10	500		
		18	60~498		8~16	10~28	4 5 6 8 10 12	500		
		20	60~498		8~17	10~32	4 5 6 8 10 12	500		1.0 or Less

P dimensions require M+3≤P. L requires L-J≥20.

■One End Tapered, One End Threaded

Part Number Type		D	1mm Increment L	F	B	P Selection	1mm Increment J	(Y) Max.	R	C
(D Tolerance g6)	(D Tolerance h5)									
SFTN	SFKU	6	25~198	2≤F≤Px5	B≤F-2 (When P≤6) B≤F-3 (When P=8, 10) B≤F-5 (When P≥12) B=0 (W/o Threads)	3 4 5 6	5~7	200	0.3 or Less	0.5 or Less
SSFTN	SSFKU	8	25~198			3 4 5 6 8	5~10	200		
PSFTN	PSFKU	10	30~198			4 5 6 8 10	5~14	200		
PSSFTN	PSSFKU	12	40~298			5 6 8 10 12	5~18	300		
		13	40~298			5 6 8 10 12	5~20	300		
		15	50~298			5 6 8 10 12	10~24	300		
		16	50~498			5 6 8 10 12 16	10~25	500		
		18	60~498			5 6 8 10 12 16	10~28	500		
		20	60~498			5 6 8 10 12 16 20	10~32	500		1.0 or Less

When D=P, specify F=B as B dimensions. However, L and F dimensions have manufacturing priority and B dimension of the product will be F -(Pitchx2).
Thread machining will not be applied when B=0 is specified. L requires L-J≥20. B≥Pitchx3 is required.

Ordering Example

- One End Tapered, One End Tapped

Part Number	-	L	-	J	-	M
SFTF20	-	350	-	J15	-	M6

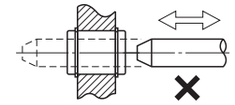
- One End Tapered, One End Stepped and Tapped

Part Number	-	L	-	F	-	P	-	J	-	M
SFTG20	-	350	-	F25	-	P16	-	J10	-	M8

- One End Tapered, One End Threaded

Part Number	-	L	-	F	-	B	-	P	-	J
SFTN20	-	350	-	F40	-	B30	-	P10	-	J10

Example



Not suitable for usage requiring frequent insertions with Linear Bushings. (Linear bushing damages may result.)

■One End Tapered, One End Tapped

Part Number Type	D	Unit Price Min. L~50	L51~100	L101~150	L151~200	L201~300	L301~400	L401~500
SFTF SFLU	6					-	-	-
	8					-	-	-
	10					-	-	-
	12						-	-
	13						-	-
	15						-	-
	16							
	18, 20	-						
SSFTF SSFLU	6					-	-	-
	8					-	-	-
	10					-	-	-
	12						-	-
	13						-	-
	15						-	-
	16							
	18, 20	-						

Part Number Type	D	Unit Price Min. L~50	L51~100	L101~150	L151~200	L201~300	L301~400	L401~500
PSFTF PSFLU	6					-	-	-
	8, 10					-	-	-
	12, 13						-	-
	15						-	-
	16							
	18, 20	-						
PSSFTF PSSFLU	6, 8, 10					-	-	-
	12, 13						-	-
	15						-	-
	16							
	18, 20	-						

■One End Tapered, One End Stepped and Tapped

Part Number Type	D	Unit Price Min. L~50	L51~100	L101~150	L151~200	L201~300	L301~400	L401~498
SFTG SFJU	8, 10					-	-	-
	12						-	-
	13						-	-
	15						-	-
	16							
	18, 20	-						
SSFTG SSFJU	8, 10					-	-	-
	12, 13						-	-
	15						-	-
	16							
	18, 20	-						

Part Number Type	D	Unit Price Min. L~50	L51~100	L101~150	L151~200	L201~300	L301~400	L401~498
PSFTG PSFJU	8, 10					-	-	-
	12, 13						-	-
	15						-	-
	16							
	18, 20	-						
PSSFTG PSSFJU	8, 10					-	-	-
	12, 13						-	-
	15						-	-
	16							
	18, 20	-						

■One End Tapered, One End Threaded

Part Number Type	D	Unit Price Min. L~50	L51~100	L101~150	L151~200	L201~300	L301~400	L401~498
SFTN SFKU	6, 8, 10					-	-	-
	12						-	-
	13						-	-
	15						-	-
	16							
	18, 20	-						
SSFTN SSFKU	6, 8, 10					-	-	-
	12, 13						-	-
	15						-	-
	16							
	18, 20	-						

Part Number Type	D	Unit Price Min. L~50	L51~100	L101~150	L151~200	L201~300	L301~400	L401~498
PSFTN PSFKU	6, 8, 10					-	-	-
	12, 13						-	-
	15						-	-
	16							
	18, 20	-						
PSSFTN PSSFKU	6, 8, 10					-	-	-
	12, 13						-	-
	15						-	-
	16							
	18, 20	-						

Alterations

- One End Tapered, One End Tapped

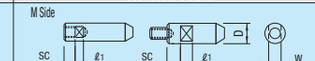
Part Number	-	L	-	J	-	M	-	(LKC, SC)
SFTF20	-	350	-	J15	-	M6	-	LKC

- One End Tapered, One End Stepped and Tapped

Part Number	-	L	-	F	-	P	-	J	-	M	-	(SC)
SFTG20	-	350	-	F25	-	P16	-	J10	-	M8	-	SC5

- One End Tapered, One End Threaded

Part Number	-	L	-	F	-	B	-	P	-	J	-	(SC)
SFTN20	-	350	-	F40	-	B30	-	P10	-	J10	-	SC5

Alterations	Alteration to L dimension tolerance	Wrench Flats
		
Code	LKC	SC
Spec.	Changes L tolerance. Ordering Code LKC L<200⋯L±0.03 200≤L<500 ⋯L±0.05 L=500⋯L±0.1 L dimensions can be specified in 0.1mm increment for LKC. ⊗Not applicable to D=P. ⊗Not Applicable to One End Stepped and Tapped One End Threaded Type.	Adds wrench flats. Ordering Code SC5 SC=1mm Increment SC+ℓ1≤L-J SC≥0

D	W	ℓ1
6	5	8
8	7	
10	8	
12	10	10
13	11	
15	13	
16	14	
18	16	
20	17	

Alterations may lower hardness. See P.112