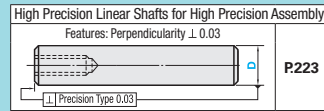


Shafts

One End Tapped



For High Precision Linear Shafts with high perpendicular precision of the shaft end ($\perp 0.03$), see **P.223**. For Shafts with Wrench Flats and Cross-Drilled Hole, see **P.153**.

For products uncovered by the e-Catalog Standards, see **P.131**.

RoHS10

- Annealing may lower hardness at shaft end machined areas (effective thread length + approx. 10mm). **P.142**
- Full Length Hardness Guaranteed Shafts **P.155**
- L Dimension Tolerance, Circularity, Straightness, Perpendicularity, Concentricity and Changes in Hardness **P.141**
- Features of Low Temp. Black Chrome Plating **P.156**

Type		Material	Hardness	Surface Treatment
SFJT	SFUT	SUJ2 Equivalent	Effective Hardened Depth of Induction Hardening P.142	Hard Chrome Plating - Plating Hardness: HV750 -, Plating Thickness: 5µ or More
SSFJT	SSFUT	SUS440C or 13Cr stainless		
PSFJT	PSFUT	SUJ2 Equivalent	SUJ2 Equivalent 58HRC- SUS440C or 13Cr stainless 56HRC-	Low Temp. Black Chrome Plating
PSSFJT	PSSFUT	SUS440C or 13Cr stainless		
RSFJT	RSFUT	SUJ2 Equivalent	S45C Equivalent	Hard Chrome Plating - Plating Hardness: HV750 -, Plating Thickness: 10µ or More
		SUS304		

D Tol.			
D	g6	h5	f8
4			
5	-0.004	0	
6	-0.012	-0.005	-0.010
8	-0.005	0	-0.013
10	-0.014	-0.006	-0.035
12			
13			
15	-0.006	0	-0.016
16	-0.017	-0.008	-0.043
18			
20			
25	-0.007	0	-0.020
30	-0.020	-0.009	-0.053
35			
40	-0.009	0	-0.025
50	-0.025	-0.011	-0.064

For plated products, the surface roughness of D part is $0.4\sqrt{D}$ and for unplated products, it is $0.4\sqrt{D}$.

Part Number Type	D	L specified in 1mm Increments	M (Coarse) Selection	C
(D Tol. g6) SFJT SSFJT PSFJT PSSFJT RSFJT (D≤30, L≤500)	4	20~ 300	2	0.2 or Less
	5	20~ 400	2.6 3	
	6	15~ 800	3	
	8	15~1000	3 4 5	
	10	15~1000	3 4 5 6	
(D Tol. f8) PSFGT (D≥6) PSSFGT (D≥6)	12	15~1200	4 5 6 8	0.5 or Less
	13	15~1200	4 5 6 8	
	15	15~1200	4 5 6 8 10	
	16	30~1200	4 5 6 8 10	
	18	30~1200	4 5 6 8 10 12	
	20	30~1200	4 5 6 8 10 12	1.0 or Less
	25	35~1200	4 5 6 8 10 12 16	
	30	35~1500	6 8 10 12 16 20	
	35	35~1500	8 10 12 16 20 24	
	40	50~1500	10 12 16 20 24 30	
50	65~1500	12 16 20 24 30		

When Mx2.5+4≥L, tap pilot holes may go through.

Ordering Example

Part Number - L - M
 SFJT8 - 200 - M4
 RSFJT20 - 325 - M8

Alterations

Part Number - L - M(MSC, MD) - (LKC...etc.)
 SFJT30 - 250 - M12 - LKC

Alterations	Code	Spec.
	LKC	Alteration to L dimension tolerance (Ordering Code) LKC L dimensions can be specified in 0.1mm increment for LKC. L<200 ...L±0.03 200≤L<500 ...L±0.05 L≥500 ...L±0.1
	FC	Set Screw Flat at One Location (Ordering Code) FC10-E8 FC, E=1mm Increment D≤30:FC≤5xD, D≥35:FC≥3xD E=0 or E≥2 Not available in combination with WFC.
	WFC	Set Screw Flats at Two Locations (Ordering Code) WFC8-A8-E4 WFC, A, E=1mm Increment D≤30:WFC≤5xD, D≥35:WFC≥3xD A(E)=0 or A(E)≥2 Orientation between set screw flats is not coplanar. Not available in combination with FC.
	MSC	Change to Fine Tapped Thread (Ordering Code) MSC14 (M is changed to MSC) Application Notes) Applicable to D=12 or more P.143

Alteration Details **P.143**

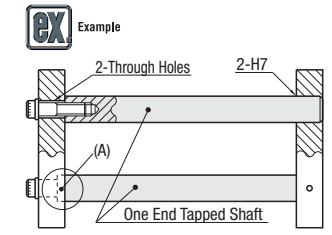
Alterations	Code	Spec.
	RC	90-deg. Set Screw Flat at One Location (Ordering Code) RC10 (Application Notes) Only applicable to D=10 - 30. Not available in combination with WRC.
	WRC	90-deg. Set Screw Flats at Two Locations (Ordering Code) WRC10-Y10 (Application Notes) Only applicable to D=10 - 30. Not available in combination with RC. Orientation between two set screw flats is not coplanar.
	KC WKC	Keyway at one location. Keyways at two locations. (Ordering Code) KC10-G10 WKC10-C8-KC10-LT10 (Application Notes) Only applicable to D=12, 16, 20, 25 and 30. This Alteration cannot be applied to any tapped thread (Mx2.5+4).
	MD	Change the effective length of tapped part to Mx3. (Ordering Code) MD6 (M is changed to MD) (Application Notes) Only applicable to D=10-30 and M=6-20 One End Tapped: MD3.5-4-L Not available in combination with KC, WSC.

Please see Shaft Alteration Overview for details if provided. **P.143**
 When selecting multiple alteration additions, the distance between machined areas should be greater than 2mm. **P.144**
 Alterations may lower hardness. See **P.142**.

Part Number Type	D	Unit Price																										
		Min. L	L51	L101	L151	L201	L251	L301	L351	L401	L451	L501	L551	L601	L651	L701	L751	L801	L851	L901	L951	L1001	L1101	L1201	L1301	L1401		
SFJT SFUT	4																											
	5																											
	6																											
	8																											
	10																											
	12																											
	13																											
	15																											
	16																											
	18																											
SSFJT SSFUT	20																											
	25																											
	30																											
	35																											
	40																											
	50																											
	PSFJT PSFUT	4																										
		5																										
		6																										
		8																										
10																												
12																												
13																												
15																												
16																												
18																												
PSSFJT PSSFUT	20																											
	25																											
	30																											
	35																											
	40																											
	50																											

For D tolerance h5, add the relevant surcharge to the prices above.

Part Number Type	D	Unit Price						
		Min. L	L101	L201	L401	L601	L1001	L1201
RSFJT	4							
	5							
	6							
	8							
	10							
	12							
	13							
	15							
	16							
	18							
PSFGT	20							
	25							
	30							
	35							
	40							
	50							



Part Number Type	D	Unit Price						
		Min. L	L101	L201	L401	L601	L1001	L1201
PSSFGT	6							
	8							
	10							
	12, 13							
	15, 16							
	18, 20							
	25							
	30							
	35							
	40							
50								