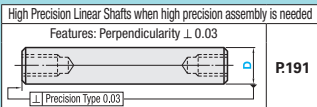


Shafts

Both Ends Tapped



- For High Precision Linear Shafts with high perpendicular precision of the shaft end ($\perp 0.03$), see **P.191**.
- For Shafts with Wrench Flats and Cross-Drilled Hole, see **P.121**.

Type	D Tol.			Material	Hardness	Surface Treatment
	g6	h5	f8			
SFJW	SFUW	-	-	EN 1.3505 Equiv.	Effective Hardened Depth of Induction Hardening P.112	Hard Chrome Plating Plating Hardness: HV750 ~ Plating Thickness: 5µ or More
SSFJW	SSFUW	-	-	EN 1.4037 Equiv.		
PSFJW	PSFUW	-	-	EN 1.3505 Equiv.		
PSSFJW	PSSFUW	-	-	EN 1.4037 Equiv.		
RSFJW	-	-	-	EN 1.3505 Equiv.	EN 1.3505 Equiv. 58HRC~ EN 1.4037 Equiv. 56HRC~	LTBC Plating
-	-	PSFGW	-	EN 1.1191 Equiv.	-	Hard Chrome Plating Plating Hardness: HV750 ~ Plating Thickness: 10µ or More
-	-	PSSFGW	-	EN 1.4301 Equiv.	-	

No Surface Treatment

RoHS 10

Annealing may lower hardness at shaft end machined areas (effective thread length + approx. 10mm). **P.112**

Full Length Hardness Guaranteed Shafts **P.127**

L Dimension Tolerance, Circularity, Straightness, Perpendicularity, Concentricity and Changes in Hardness **P.111**

Features of LTBC Plating **P.128**

Part Number	Type	D	L	M (Coarse), N (Coarse) Selection	C
		4	20~ 300	2	0.2 or Less
		5	20~ 400	2.6 3	
		6	20~ 600	3	
		8	20~ 800	3 4 5	
		10	20~ 800	3 4 5 6	
		12	20~1000	4 5 6 8	
		13	25~1000	4 5 6 8	
		15	25~1000	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	
		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	

L requires Mx2+Nx2≤L. When Mx2.5+4+Nx2.5+4≥L, tap pilot holes may go through.

Ordering Example	Part Number	-	L	-	M	-	N
	SFJW8	-	200	-	M4	-	N4
	SSFJW20	-	500	-	M6	-	N10

Alterations	Part Number	-	L	-	M (MSC, MD)	-	N (NSC, MD)	-	(LKC...etc.)
	SFJW30	-	500	-	M8	-	N10	-	LKC

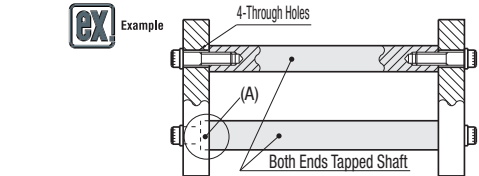
Alterations	Code	Spec.
	LKC	Alteration to L dimension tolerance (Ordering Code) LKC L dimensions can be specified in 0.1mm increment for LKC. L<200 → L±0.03 200≤L<500 → L±0.05 L≥500 → L±0.1
	WSC	Wrench Flats at Two Locations (Ordering Code) WSC12-X8 (Application Notes) Applicable to D=6 or more WSC, X=1mm Increment WSC+X+ℓ1x2<L WSC(X)≥0 Orientation between two set screw flats is not coplanar. Not available in combination with FC.
	FC	Set Screw Flat at One Location (Ordering Code) FC10-A8 FC, A=1mm Increment FC≤3xD When 1.5xD<FC, FC≤L/2 E=0 or A≥2 Not available in combination with WFC.

- Please see Shaft Alteration Overview for details if provided. **P.113**
- When selecting multiple alteration additions, the distance between machined areas should be greater than 2mm. **P.114**
- Alterations may lower hardness. See **P.112**

Alterations	Code	Spec.
	WFC	Set Screw Flats at Two Locations (Ordering Code) WFC8-A8-E2 WFC, A, E=1mm Increment WFC≤3xD When 1.5xD<WFC, 2WFC≤L/2 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 MSC14 (M is changed to MSC) NSC14 (N is changed to NSC) (Application Notes) Applicable to D=12 or more
	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.
	MD	Change the effective tap depth to M(N)x3. (Ordering Code) MD6/ND6 (M is changed to MD, N is changed to ND) (Application Notes) Only applicable to D=6~30, M(N)=6~20 One End Tapped: MDx3.5+4≥L Both Ends Tapped: MDx3.5+4+NDx3.5+4≥L

Part Number		Unit Price															
Type	D	Min. L	L51	L101	L151	L201	L251	L301	L351	L401	L451	L501	L551	L601	L651	L701	L751
SFJW	4																
	5																
	6																
	8																
	10																
	12																
	13																
	15																
	16																
	18																
SSFJW	4																
	5																
	6																
	8																
	10																
	12																
	13																
	15																
	16																
	18																
PSFJW	4																
	5																
	6																
	8																
	10																
	12																
	13																
	15																
	16																
	18																
PSSFJW	4																
	5																
	6																
	8																
	10																
	12																
	13																
	15																
	16																
	18																

Part Number		Unit Price						
Type	D	Min. L	L101	L201	L401	L601	L801	L1001
RSFJW	4							
	5							
	6							
	8							
	10							
	12							
	13							
	15							
	16							
	18							
PSFGW	4							
	5							
	6							
	8							
	10							
	12, 13							
	15, 16							
	18, 20							
	25							
	30							



Part Number		Unit Price						
Type	D	Min. L	L101	L201	L401	L601	L801	L1001
PSSFGW	4							
	5							
	6							
	8							
	10							
	12, 13							
	15, 16							
	18, 20							
	25							
	30							