

# Linear Shafts High Accuracy, Standard Type

## -Both Ends Female Thread-

■ Suitable for use with high precision/endurance products. Through hole can be easily machined on the opposite end.

When ordering, select Part Number and Values from Selection Steps ①~⑤. \* For the length, specify only the number. Letter "L" is not needed.

Ordering Example: Part Number (①Type-②D) - (③L) - (④M) - (⑤N)  
**SFJW20 - 200\* - M4 - N4**

**Configurable**

Type	D Tol.	Equivalent Materials	Hardness	Surface Treatment
SFJW	g6	SUJ2	58HRC~	Induction Hardening Effective Hardening Depth: P.89 Hard Chrome Plating Plating Hardness: HV750 ~ Plating Thickness: 3μ or More
SSFJW		SUS440C	56HRC~	
PSFJW		SUJ2	58HRC~	
PSSFJW		SUS440C	56HRC~	

Ⓜ Annealing may lower hardness at shaft end machined areas (effective thread length + approx. 10mm). P.89  
 Ⓜ Circularity, Straightness, Perpendicularity and Changes in Hardness: P.89

CAD 2D 3D RoHS

Part Number ①Type	②Dg6	③L 1mm Increments	④M (Coarse Threads) / ⑤N (Coarse Threads) Selection				C			
			M	N	M	N				
SFJW SSFJW PSFJW PSSFJW	4	-0.004	10~ 400	2			0.2 or Less			
	5	-0.012	10~ 400	2.6	3		0.5 or Less			
	6		20~ 600		3					
	8	-0.005	20~ 800	3	4	5				
	10	-0.014	20~ 800	3	4	5		6		
	12		20~1000		4	5		6	8	
	13		25~1000		4	5		6	8	
	15	-0.006	25~1000		4	5		6	8	10
	16	-0.017	30~1200		4	5		6	8	10
	18		30~1200		4	5		6	8	10
20		30~1200		4	5	6		8	10	12
25	-0.007	35~1200		4	5	6	8	10	12	16
30	-0.020	35~1500			6	8	10	12	16	20
35		35~1500			8	10	12	16	20	24
40	-0.009	50~1500			10	12	16	20	24	30
50	-0.025	65~1500			12	16	20	24	30	

Ⓜ Total Length L requires Mx2+Nx2≤L. Ⓜ When Mx2.5+4+Nx2.5+4≥L, tap pilot holes may go through. Ⓜ For the products that are not shown on the catalog, see the relevant Web page.

Alterations Part Number (①Type-②D) - (③L) - (④M) - (⑤N) - (LKC...etc.)  
**SFJW30 - 500 - M8 - N10 - LKC**

Alterations	Code	Spec.
	LKC	Changes L dimension tolerance <Ordering Code> LKC L dimensions can be specified in 0.1mm increments 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-A8 FC and A=1mm Increments Ⓜ FC≤3xD Ⓜ When 1.5xD<FC, FC≤L/2 Ⓜ A=0 or A≥2 Ⓜ Cannot be used with WFC.
	WFC	Set Screw Flats at Two Locations <Ordering Code> WFC8-A8-E2 WFC, A and E=1mm Increments Ⓜ WFC≤3xD Ⓜ When 1.5xD<WFC, 2WFC≤L/2 Ⓜ A(E)=0 or A(E)≥2 Ⓜ Cannot be machined on the same plane. Cannot be used with FC.

**EX** Example

4- Cross-drilled Holes Induction Hardening

Linear Shaft Both Ends Tapped Type (SFJW)

Ⓜ When selecting multiple alteration additions, the distance between machined areas should be greater than 2mm.  
 Ⓜ Alterations may lower hardness. P.89

# MiSUMI C-VALUE Linear Shafts

## -Both Ends Female Thread-

■ Suitable for use with lower priced products not requiring high precision/endurance. Through hole can be easily machined on the opposite end.

When ordering, select Part Number and Values from Selection Steps ①~⑤. \* For the length, specify only the number. Letter "L" is not needed.

Ordering Example: Part Number (①Type-②D) - (③L) - (④M) - (⑤N)  
**CPSFJW20 - 200\* - M4 - N4**

**Configurable**

Type	D Tol.	Equivalent Materials	Hardness	Surface Treatment
CSFJW	h8	S45C	55HRC~	Induction Hardening Effective Hardening Depth: P.89 Hard Chrome Plating Plating Hardness HV750 ~ Plating Thickness: 5μ or More
CPSFJW				

Ⓜ Annealing may lower hardness at shaft end machined areas (effective thread length + approx. 20mm). P.89  
 Ⓜ Circularity, Straightness, Perpendicularity and Changes in Hardness: P.89

CAD 2D 3D RoHS

Part Number ①Type	②Dh8	③L 1mm Increments	④M (Coarse Threads), ⑤N (Coarse Threads) Selection				C					
			M	N	M	N						
CSFJW CPSFJW	6	0	20~ 600	3			0.5 or Less					
	8	-0.018	20~ 800	3	4	5						
	10	-0.022	20~ 800	3	4	5		6				
	12		20~1000		4	5		6	8			
	13	0	25~1000		4	5		6	8			
	16	-0.027	30~1200		4	5		6	8	10		
CPSFJW	20		30~1200		4	5	6	8	10	12		
	25	0	35~1200		4	5	6	8	10	12	16	
	30	-0.033	35~1200		4	5	6	8	10	12	16	20
					6	8	10	12	16	20		

Ⓜ CSFJ: D is 16 or Less. Ⓜ Total Length L requires Mx2+Nx2≤L. Ⓜ When Mx2.5+4+Nx2.5+4≥L, tap pilot holes may go through.

Alterations Part Number (①Type-②D) - (③L) - (④M) - (⑤N) - (LKC...etc.)  
**CPSFJW20 - 500 - M8 - N10 - LKC**

Alterations	Code	Spec.
	LKC	Changes L dimension tolerance <Ordering Code> LKC L dimensions can be specified in 0.1mm increments 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-A8 FC and A=1mm Increments Ⓜ FC≤3xD Ⓜ When 1.5xD<FC, FC≤L/2 Ⓜ A=0 or A≥2 Ⓜ Cannot be used with WFC.
	WFC	Set Screw Flats at Two Locations <Ordering Code> WFC8-A8-E2 WFC, A and E=1mm Increments Ⓜ WFC≤3xD Ⓜ When 1.5xD<WFC, 2WFC≤L/2 Ⓜ A(E)=0 or A(E)≥2 Ⓜ Cannot be machined on the same plane. Cannot be used with FC.

Alterations	Code	Spec.
	WSC	Wrench Flats at two locations <Ordering Code> WSC12-X8 Ⓜ WFC, X=1mm Increments Ⓜ WSC+X+ℓ1x2<L Ⓜ WSC(X)≥0 Ⓜ Two wrench flats will not be positioned in a coplanar relationship. Cannot be used with FC.

Ⓜ When selecting multiple alteration additions, the distance between machined areas should be greater than 2mm.  
 Ⓜ Alterations may lower hardness. P.89

**EX** Example

Linear Shaft Both Ends Tapped Type (CSFJW)  
 Linear Bushing (LH1RK)