

Linear Shafts High Accuracy, Standard Type

-Both Ends Female Thread with Wrench Flats-

■ Suitable for use with high precision/endurance products. Can be combined with mating parts easily by adding wrench flats.

When ordering, select Part Number and Values from Selection Steps ①-⑥.* For the length, specify only the number. Letter "L" is not needed.

Ordering Example

Part Number (①Type-②D) - (③L) - (④M) - (⑤N) - (⑥SC)

SFJZ20 - 200* - M5 - N5 - SC10

Configurable

Type	D Tol.	Equivalent Materials	Hardness	Surface Treatment
SFJZ	g6	SUJ2	58HRC~	Induction Hardening Effective Hardening Depth \geq P.89 Hard Chrome Plating Plating Hardness: HV750 ~ Plating Thickness: 3 μ or More
SSFJZ		SUS440C	56HRC~	
PSFJZ		SUJ2	58HRC~	
PSSFJZ		SUS440C	56HRC~	

① Annealing may lower hardness at wrench flat and shaft end machined areas (effective thread length + approx. 10mm) \geq P.89

② Circularity, Straightness, Perpendicularity and Changes in Hardness \geq P.89

Part Number ①Type	②Dg6	③L 1mm Increments	④M (Coarse Threads) / ⑤N (Coarse Threads) Selection	Wrench Flats Dimensions		C
				⑥SC	W	
SFJZ SSFJZ PSFJZ PSSFJZ	6	-0.004 -0.012	20~ 600	3	5	0.5 or Less
	8	-0.005 -0.014	20~ 800	3 4 5	7	
	10		20~ 800	3 4 5 6	8	
	12		20~1000	4 5 6 8	10	
	13	-0.006 -0.017	25~1000	4 5 6 8	11	1.0 or Less
	15		25~1000	4 5 6 8 10	13	
	16	30~1200	4 5 6 8 10	14		
	18	30~1200	4 5 6 8 10 12	16		
	20	30~1200	4 5 6 8 10 12	17		
	25	-0.007 -0.020	35~1200	4 5 6 8 10 12 16	22	
30		35~1500	6 8 10 12 16 20	27		
35	-0.009 -0.025	35~1500	8 10 12 16 20 24	30		
40		50~1500	10 12 16 20 24 30	36		
50		65~1500	12 16 20 24 30	41		

SC=1mm Increment
⑥SC+ℓ₁≤L
⑥SC≥0

① Total Length L requires Mx2+Nx2≤L. ② When Mx2.5+4+Nx2.5+4≥L, tap pilot holes may go through. ③ For the products that are not shown on the catalog, refer to the relevant Web page.

Alterations

Part Number (①Type-②D) - (③L) - (④M) - (⑤N) - (⑥SC) - (LKC...etc.)

SFJZ30 - 500 - M8 - N10 - SC10 - LKC

Alterations	Code	Spec.
	LKC	Changes L dimension tolerance <Ordering Code> LKC L dimensions can be specified in 0.1mm increments for LKC. ① 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 ① FC≤3xD ② When 1.5xD<FC, FC≤L/2 ③ A=0 or A≥2 ④ Cannot be used with WFC.
	WFC	Set Screw Flats at Two Locations <Ordering Code> WFC8-A8-E2 WFC, A and E=1mm Increments ① WFC≤3xD ② When 1.5xD<WFC, 2WFC≤L/2 ③ A(E)=0 or A(E)≥2 ④ Cannot be machined on the same plane. Cannot be used with FC.

Alterations	Code	Spec.
	SX	Second Set of Wrench Flats <Ordering Code> SX15 SX=1mm Increments ① SC+SX+ℓ ₁ x2<L ② SX≥0 ③ Cannot be machined on the same plane.

① When selecting multiple alteration additions, the distance between machined areas should be greater than 2mm.
② Alterations may lower hardness. \geq P.89

MiSUMI VALUE Linear Shafts

-Both Ends Female Thread with Wrench Flats-

■ Suitable for use with lower priced products not requiring high precision/endurance. Can be combined with mating parts easily by adding wrench flats.

When ordering, select Part Number and Values from Selection Steps ①-⑥.* For the length, specify only the number. Letter "L" is not needed.

Ordering Example

Part Number (①Type-②D) - (③L) - (④M) - (⑤N) - (⑥SC)

CPSFJZ20 - 200* - M5 - N5 - SC10

Configurable

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

① Annealing may lower hardness at wrench flat and shaft end machined areas (effective thread length + approx. 20mm) \geq P.89

② Circularity, Straightness, Perpendicularity and Changes in Hardness \geq P.89

Part Number ①Type	②Dh8	③L 1mm Increments	④M (Coarse Threads) / ⑤N (Coarse Threads) Selecting	Wrench Flats Dimensions		C	
				⑥SC	W		
CSFJZ CPSFJZ	6	0 -0.018	20~ 600	3	5	0.5 or Less	
	8	0	20~ 800	3 4 5	7		
	10	-0.022	20~ 800	3 4 5 6	8		
	12	0	20~1000	4 5 6 8	10		
	CPSFJZ	13	0	25~1000	4 5 6 8	11	1.0 or Less
		16	-0.027	30~1200	4 5 6 8 10	14	
20		0	30~1200	4 5 6 8 10 12	17		
25		-0.033	35~1200	4 5 6 8 10 12 16	22		
30			35~1200	6 8 10 12 16 20	27		
					15		

SC=1mm Increment
⑥SC+ℓ₁≤L
⑥SC≥0

① CSFJZ: D is 16 or Less. ② Total Length L requires Mx2+Nx2≤L. ③ When Mx2.5+4+Nx2.5+4≥L, tap pilot holes may go through.

Alterations

Part Number (①Type-②D) - (③L) - (④M) - (⑤N) - (⑥SC) - (LKC...etc.)

CPSFJZ25 - 500 - M8 - N10 - SC10 - LKC

Alterations	Code	Spec.
	LKC	Changes L dimension tolerance <Ordering Code> LKC L dimensions can be specified in 0.1mm increments for LKC. ① 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 ① FC≤3xD ② When 1.5xD<FC, FC≤L/2 ③ A=0 or A≥2 ④ Cannot be used with WFC.
	WFC	Set Screw Flats at Two Locations <Ordering Code> WFC8-A8-E2 WFC, A and E=1mm Increments ① WFC≤3xD ② When 1.5xD<WFC, 2WFC≤L/2 ③ A(E)=0 or A(E)≥2 ④ Cannot be machined on the same plane. Cannot be used with FC.

Alterations	Code	Spec.
	SX	Second Set of Wrench Flats <Ordering Code> SX15 SX=1mm Increments ① SC+SX+ℓ ₁ x2<L ② SX≥0 ③ Cannot be machined on the same plane.

① When selecting multiple alteration additions, the distance between machined areas should be greater than 2mm.
② Alterations may lower hardness. \geq P.89

