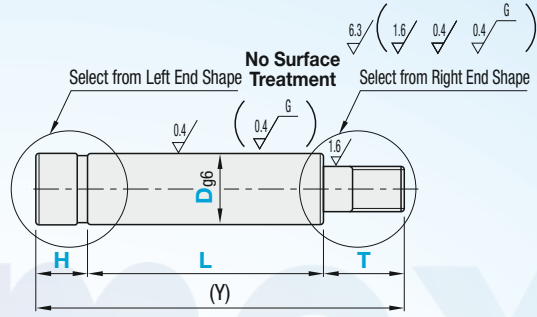


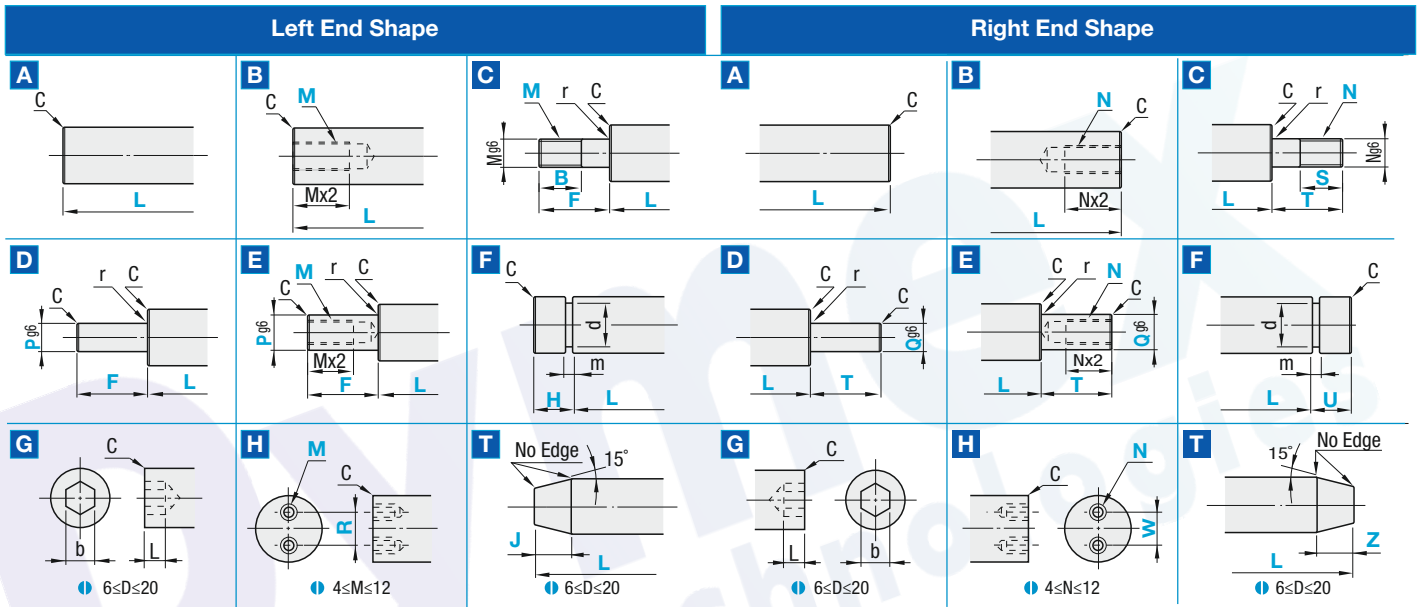
Linear Shafts

Shaft Ends Configurable



Type	D Tol. g6	D Tol. h5	M Material	H Hardness	H Surface Treatment
DFSFJ	DFSFU	SUJ2 Equivalent	SUS440C or 13Cr stainless	58HRC~	—
DFSSFJ	DFSSFU	SUS440C or 13Cr stainless	SUJ2 Equivalent	56HRC~	Hard Chrome Plating Plating Hardness: Hv750 ~ Plating Thickness: 5µ or More ~
DFPSFJ	—	SUJ2 Equivalent	SUS440C or 13Cr stainless	58HRC~	—
DFPSSFJ	—	SUS440C or 13Cr stainless	SUJ2 Equivalent	56HRC~	—

(Y) dimensions need to be (Y) ≤ D × 50, (Y) ≤ 1500
 EL Dimension Tolerance, Circularity, Straightness, Perpendicularity, Concentricity and Changes in Hardness



Machining Conditions

B

- When M3 ~ 8 M(N) ≤ D-3
- When M10 or 12 M(N) ≤ D-4
- When M16, 20 or 24 M(N) ≤ D-5
- When M30 M(N) ≤ D-6
- L ≥ M(N) × 4

No alteration condition for Shape

C

D	r
6~30	0.3 or Less
31~50	0.5 or Less

Specify M(N) dimensions.
 E B, S ≥ Pitch × 3 is required.

D

D	r
6~30	0.3 or Less
31~50	0.5 or Less

E

D	r	P(Q) ≥ M(N) + 3
6~30	0.3 or Less	
31~50	0.5 or Less	

- When M3 ~ 8 M(N) ≤ P(Q) - 3
- When M10 or 12 M(N) ≤ P(Q) - 4
- When M16, 20 or 24 M(N) ≤ P(Q) - 5
- When M30 M(N) ≤ P(Q) - 6

F

D dimensions 31 and 38 can not be specified.

G

D	b	Hex Socket Depth
6, 7	2.5	3.5
8, 9	3	4.5
10	4	6
12~15	5	7.5
16~19	6	9
20	8	12

H

D ≥ 16
 D ≥ M + 4 + R
 D ≥ N + 4 + W
 R ≥ M + 3
 W ≥ N + 3

Tap Depth
 Mx2
 Nx2

T

D - J(Z) tan 15° × 2 ≥ 2
 (Tip diameter Ø2 or More)
 • L requires L - J(Z) ≥ 20.
 • When both ends are in T shape, L - (J + Z) ≥ 20 is required.

When only one end requires alteration, select Shape A for the opposite end.
 G and H will not be symmetrical when applied to both ends of the shaft.
 When D=P or D=N is selected for shaft shape C, B(S) needs to be specified as F=B(T=S).
 However, L, F, and T dimensions have manufacturing priority and B(S) dimension will be F(T) - (Pitch × 2).

Part Number	Selection	0.5 mm			1mm Increment				Selection	C	
		D	L	FT	B, S	H, U	P, Q	R, W			J, Z
(D Tol. g6)	A	6 17 31			2: B ≤ M × 3	2 ≤ H, U					0.2 or less when D < 4 / P, M, N ≤ 4, 0.5 or less when D < 20, 1.0 or less when D ≥ 20
DFSFJ	B	7 18 32			2: S ≤ N × 3	(When D=6)					
DFSSFJ	C	8 19 35			B: F-2	3 ≤ H, U					
DFPSFJ	D	9 20 38			S: T-2	(When 6 < D ≤ 10)					
DFPSSFJ	E	10 22 40	20.0-1500.0 (L ≤ D × 50)	2: F: P ≤ 5	B: F-3	4 ≤ H, U					
(D Tol. h5)	F	12 24 45		2: F: M ≤ 5	S: T-3	(When 10 < D ≤ 20)					
DFSFU	G	13 25 50		2: T: D ≤ 5	B: F-4	5 ≤ H, U					
DFSSFU	H	14 26		2: T: S ≤ 5	(When M, N ≤ 10)	(When 20 < D)					
	T	15 28			S: T-5	H, U < 2					
		16 30			(When M, N ≤ 12)						

Type	D	Type	D	Type	D	Type	D
	6		6		6		6
	7		7		7		7
	8		8		8		8
	9		9		9		9
	10		10		10		10
	12		12		12		12
	13		13		13		13
	14, 15		14, 15		14, 15		14, 15
	16		16		16		16
DFSFJ	17, 18, 19	DFSSFJ	17, 18, 19	DFPSFJ	17, 18, 19	DFPSSFJ	17, 18, 19
DFSFU	20	DFSSFU	20		20		20
	22, 24		22, 24		22, 24		22, 24
	25		25		25		25
	26, 28		26, 28		26, 28		26, 28
	30		30		30		30
	31, 32		31, 32		31, 32		31, 32
	35		35		35		35
	38		38		38		38
	40		40		40		40
	45		45		45		45
	50		50		50		50

Basic Specifications

- Shaft End Perpendicularity - Perpendicularity (0.2)
- Heat Treatment - Induction Hardened



ORDERING GUIDE



www.dymextech.com
 india@dymextech.com