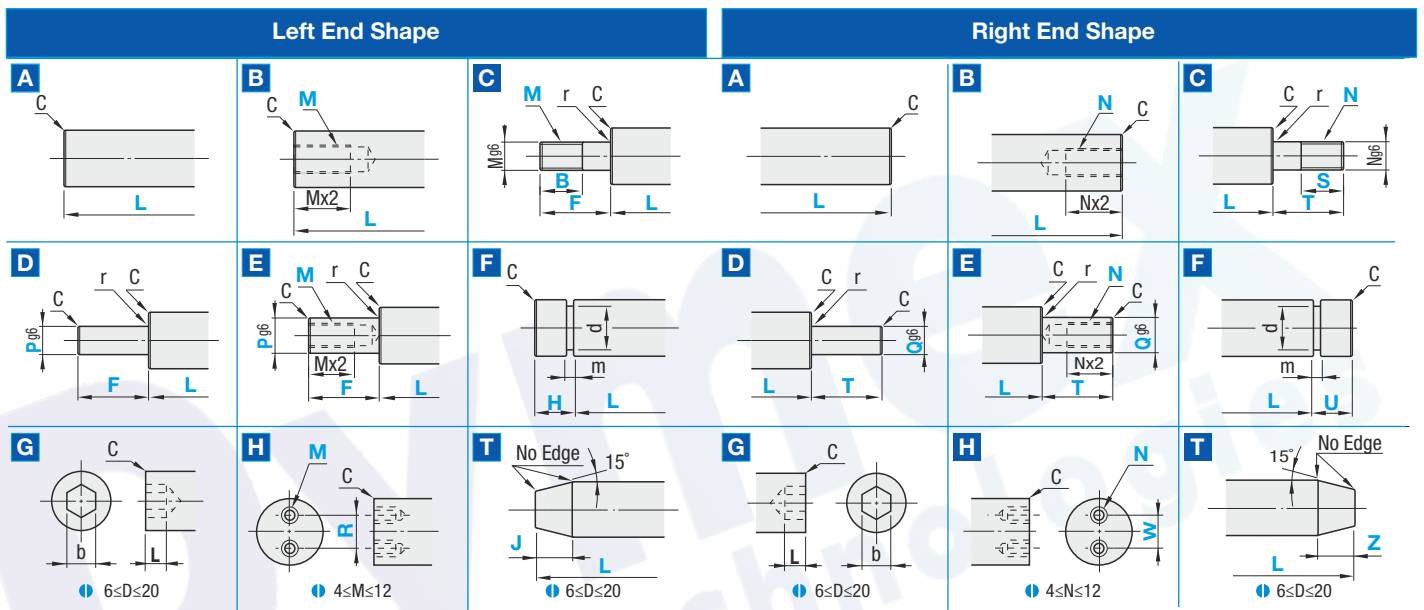


Type	D Tol. g6	D Tol. h5	M Material	H Hardness	H Surface Treatment
DFSJ	DFSJ	SUJ2 Equivalent	SUS440C or 13Cr stainless		
DFDSJ	DSSFU	SUS440C or 13Cr stainless	SUJ2 Equivalent	58HRC~	
DFDSJ		SUJ2 Equivalent	SUS440C or 13Cr stainless	56HRC~	Hard Chrome Plating Plating Hardness: Hv750 ~ Plating Thickness: 5µ or More ~
DFPSSJ		SUS440C or 13Cr stainless			

(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 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: Mx3 2-S: Nx3	2<H, U (When D=6)					0.2 or less when D-Q/P/M, N≤4, 0.5 or less when D<20, 1.0 or less when D≥20
DFSJ	B	7 18 32			B:F-2	3<H, U (When 6<D≤10)					
DFSSJ	C	8 19 35			S:T-2	4<H, U (When 10<D≤20)					
DFPSSJ	D	9 20 38			B:F-3	5<H, U (When 20<D)					
(D Tol. h5)	E	10 22 40	20.0-1500.0 (L<Dx50)	2:F-Px5 2:F-Mx5 2:F-Sx5	(When M, N≤6) B:F-3 S:T-3		D/3<P, Q<D	D:M+4+R D:N+4+W R:M+3 W:N+3			
DFSJ	F	12 24 45			B:F-4						
DFSSJ	G	13 25 50			S:T-5						
DFSSFU	H	14 26			(When M, N≤12)						
	I	15 28									
	J	16 30									
	K										
	L										
	M										

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
DFSJ	17, 18, 19	DFSSJ	17, 18, 19	DFPSSJ	17, 18, 19	DFPSSJ	17, 18, 19
DFSJ	20	DFSSJ	20	DFPSSJ	20	DFPSSJ	20
DFSJ	22, 24	DFSSJ	22, 24	DFPSSJ	22, 24	DFPSSJ	22, 24
DFSJ	25	DFSSJ	25	DFPSSJ	25	DFPSSJ	25
DFSJ	26, 28	DFSSJ	26, 28	DFPSSJ	26, 28	DFPSSJ	26, 28
DFSJ	30	DFSSJ	30	DFPSSJ	30	DFPSSJ	30
DFSJ	31, 32	DFSSJ	31, 32	DFPSSJ	31, 32	DFPSSJ	31, 32
DFSJ	35	DFSSJ	35	DFPSSJ	35	DFPSSJ	35
DFSJ	38	DFSSJ	38	DFPSSJ	38	DFPSSJ	38
DFSJ	40	DFSSJ	40	DFPSSJ	40	DFPSSJ	40
DFSJ	45	DFSSJ	45	DFPSSJ	45	DFPSSJ	45
DFSJ	50	DFSSJ	50	DFPSSJ	50	DFPSSJ	50

### Basic Specifications

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

