



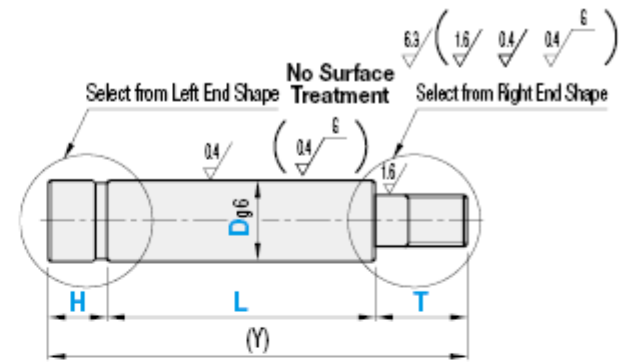
Precision Linear Shaft with Configurable Shaft Ends (MISUMI)



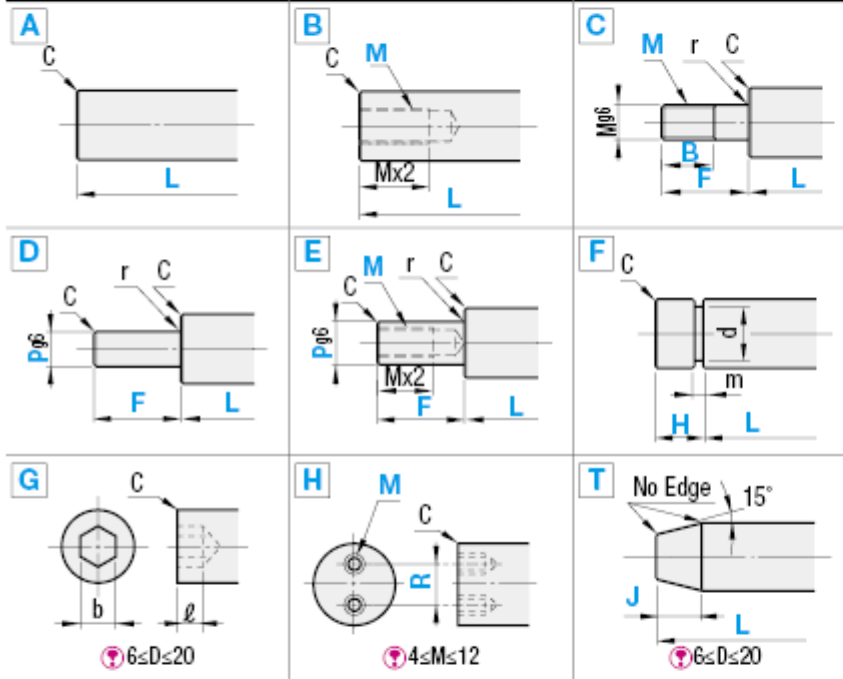
Part Number **FSSFJCB-D12-L293.5-F12-M5-B10-N5-SC30**

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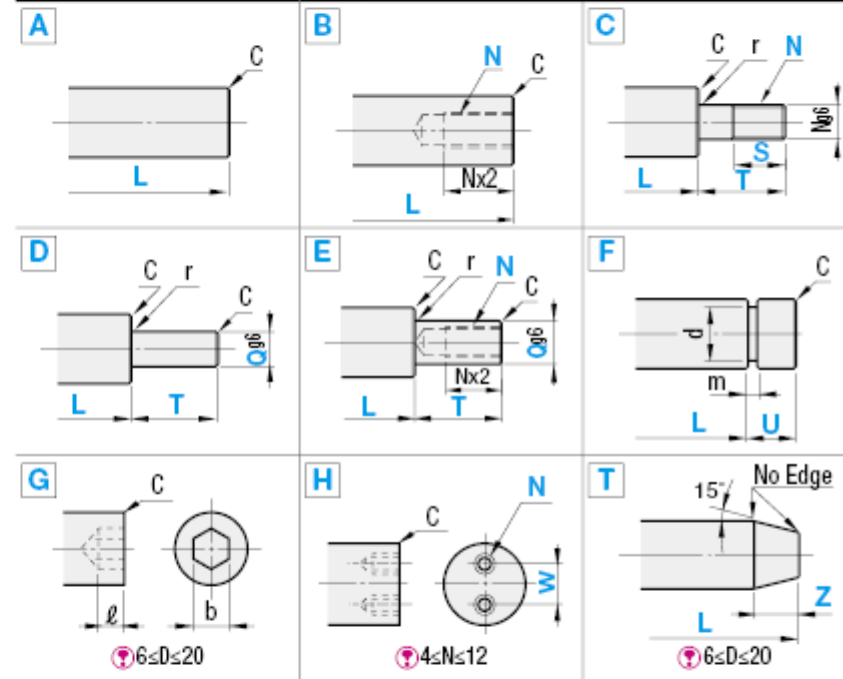
Basic Shape	Straight	End Shape (Left)	Threaded
End Shape (Right)	Tapped	Shaft End Perpendicularity	Perpendicularity (0.2)
Material	[Stainless Steel] SUS440C(13Cr) Stainless Steel Equivalent	Heat Treated	Induction Hardened
Surface Finish	None	Shaft Fits Tolerance	g6
Shaft Dia. D(mm)	12	Length L(mm)	293.5
Hardness	Induction Hardened (56HRC~)	B(mm)	10
Change to Fine Threads [MMC] (mm)	-	Change to Fine Threads [MMS] (mm)	-
Coarse Thread [M](mm)	5	Thread (Super-Fine) [PMC] in place of M(mm)	-
F(mm)	12	Thread (Fine) [PMS] in place of M(mm)	-
H(mm)	-	J(mm)	-
Thread (Fine) [QMS] in place of N(mm)	-	Thread (Super-Fine) [QMC] in place of N(mm)	-
Q(mm)	-	R(mm)	-
S(mm)	-	T(mm)	-
P(mm)	-	Thread (Super-Fine) [PMC](mm)	-
U(mm)	-	W(mm)	-
Z(mm)	-	Thread (Coarse) [N](mm)	5
Add Wrench Flats at One Location [SC](mm)	30	-	-



Left End Shape



Right End Shape



Machining Conditions

A No alteration condition for Shape

<p>B</p> <ul style="list-style-type: none"> When M3 ~ 8 $M(N) \leq D-3$ When M10 or 12 $M(N) \leq D-4$ When M16, 20 or 24 $M(N) \leq D-5$ When M30 $M(N) \leq D-6$ <p>$L \geq M(N) \times 4$</p>	<p>C</p> <table border="1"> <thead> <tr> <th>D</th> <th>r</th> </tr> </thead> <tbody> <tr> <td>6~30</td> <td>0.3 or Less</td> </tr> <tr> <td>31~50</td> <td>0.5 or Less</td> </tr> </tbody> </table> <p>Specify M(N) dimensions. B, $S \geq \text{Pitch} \times 3$ is required.</p>	D	r	6~30	0.3 or Less	31~50	0.5 or Less	<p>D</p> <table border="1"> <thead> <tr> <th>D</th> <th>r</th> </tr> </thead> <tbody> <tr> <td>6~30</td> <td>0.3 or Less</td> </tr> <tr> <td>31~50</td> <td>0.5 or Less</td> </tr> </tbody> </table>	D	r	6~30	0.3 or Less	31~50	0.5 or Less	<p>E</p> <table border="1"> <thead> <tr> <th>D</th> <th>r</th> <th>$P(Q) \geq M(N)+3$</th> </tr> </thead> <tbody> <tr> <td>6~30</td> <td>0.3 or Less</td> <td></td> </tr> <tr> <td>31~50</td> <td>0.5 or Less</td> <td></td> </tr> </tbody> </table> <ul style="list-style-type: none"> When M3 ~ 8 $M(N) \leq P(Q)-3$ When M10 or 12 $M(N) \leq P(Q)-4$ When M16, 20 or 24 $M(N) \leq P(Q)-5$ When M30 $M(N) \leq P(Q)-6$ 	D	r	$P(Q) \geq M(N)+3$	6~30	0.3 or Less		31~50	0.5 or Less	
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<p>F</p> <p>D dimensions 31 and 38 can not be specified.</p>	<p>G</p> <table border="1"> <thead> <tr> <th>D</th> <th>b</th> <th>Max. Chamfer Depth, l</th> </tr> </thead> <tbody> <tr> <td>6, 7</td> <td>2.5</td> <td>3.5</td> </tr> <tr> <td>8, 9</td> <td>3</td> <td>4.5</td> </tr> <tr> <td>10</td> <td>4</td> <td>6</td> </tr> <tr> <td>12~15</td> <td>5</td> <td>7.5</td> </tr> <tr> <td>16~19</td> <td>6</td> <td>9</td> </tr> <tr> <td>20</td> <td>8</td> <td>12</td> </tr> </tbody> </table>	D	b	Max. Chamfer Depth, l	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	<p>H</p> <p>$D \geq 16$ $D \geq M+4+R$ $D \geq N+4+W$ $R \geq M+3$ $W \geq N+3$</p> <p>Tap Depth $M \times 2$ $N \times 2$</p>	<p>T</p> <p>$D-J(Z) \tan 15^\circ \times 2 \geq 2$ (Tip diameter $\emptyset 2$ or More)</p> <ul style="list-style-type: none"> L requires $L-J(Z) \geq 20$. When both ends are in T shape, $L-(J+Z) \geq 20$ is required.
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⚠ 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 x2).



Alterations  For details, please see Alteration Overview **See below**

⚠ Applicable to LKC, SC, WSC, PMC, PMS, QMC and QMS only.

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