


Full Length Hardness Guaranteed Shafts

One End / Both Ends Tapped, Short

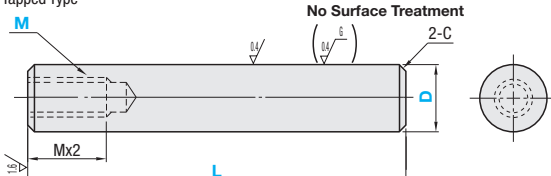
Features: Other shaft products may suffer from lowered hardness due to annealing required for tapping. The "Full Length Hardness Guaranteed" shafts maintain the case hardness over the entire length, well suited for short stroke applications.



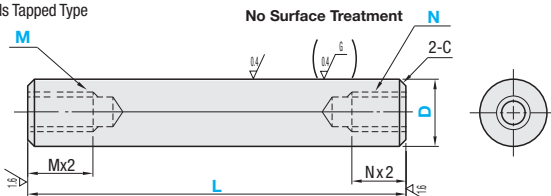
Type	D Tol.	Material	Hardness	Surface Treatment
One End Tapped	g6	SUJ2 Equivalent	Effective Hardened Depth of Induction Hardening P.112 SUJ2 Equivalent 58HRC~ SUS40C or 13Cr stainless 56HRC~	-
SFAT SFAW		SUS40C or 13Cr stainless		
SSFAT SSFAW		SUJ2 Equivalent		
RSFAT RSFAW				Low Temp. Black Chrome Plating

D Tol.	
6	-0.004 -0.012
8	-0.005 -0.014
10	
12	
13	
15	-0.006 -0.017
16	
18	
20	-0.007 -0.020

One End Tapped Type



Both Ends Tapped Type



RoHS10

Features of Low Temp. Black Chrome Plating

P.128

L Dimension Tolerance, Circularity, Straightness, Perpendicularity, Concentricity and Changes in Hardness **P.111**

Part Number	D	L	M (Coarse), N (Coarse)				C			
Type		specified in 1mm Increment	Selection							
One End Tapped	6	20~150	3				0.5 or Less			
	8	20~150	3	4	5					
	10	20~150	3	4	5	6				
	12	20~150		4	5	6		8		
	13	25~150		4	5	6		8		
	15	25~150		4	5	6		8	10	
	16	30~150		4	5	6		8	10	
	18	30~150		4	5	6		8	10	12
	20	30~150		4	5	6		8	10	12
	Both Ends Tapped									1.0 or Less

L requires Mx2+Nx2≤L.
When Mx2.5+4+Nx2.5+4≤L, tap pilot holes may go through.

Ordering Example

Part Number - L - M - N



SFAT20 - 80 - M6 - N10

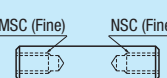
SFAW15 - 100 - M6 - N10

Alterations

Part Number - L - M (MSC, MD) - N (NSC, ND) - (LKC)

SFAW16 - 120 - MSC8 - NSC10

Alterations	Code	Spec.
	LKC	L Dimension Tolerance Change (Precision) [Ordering Code] LKC L dimensions can be specified in 0.1mm increment for LKC. L<150 → L±0.03
	MD ND	Change the effective tap depth to M(N)x3. [Ordering Code] MD6/ND6 (M is changed to MD, N is changed to ND) [Application Notes] Only applicable to D=6~30, M=6~20 One End Tapped: MDx3.5+4≥L Both Ends Tapped: MDx3.5+4+NDx3.5+4≥L

Alterations	Code	Spec.																								
	MSC NSC	Change to Fine Tapped Thread Applicable to D=12 or more [Ordering Code] MSC14 (M is changed to MSC) NSC14 (N is changed to NSC)																								
		<table border="1"> <thead> <tr> <th>D</th> <th colspan="3">MSC, NSC</th> </tr> </thead> <tbody> <tr><td>12, 13</td><td>8</td><td></td><td></td></tr> <tr><td>15, 16</td><td>8</td><td>10</td><td></td></tr> <tr><td>18</td><td>8</td><td>10</td><td>12</td></tr> <tr><td>20</td><td>8</td><td>10</td><td>12 14</td></tr> <tr><td>Pitch</td><td>1.0</td><td>1.25</td><td>1.5</td></tr> </tbody> </table> <p>M(N) dimensions are equal to MSC (NSC).</p>	D	MSC, NSC			12, 13	8			15, 16	8	10		18	8	10	12	20	8	10	12 14	Pitch	1.0	1.25	1.5
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