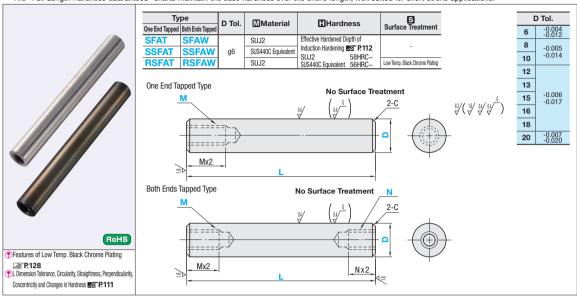
# **Full Length Hardness Guaranteed Shafts**

## 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.



Part Number			L		M (Coarse), N (Coarse)					С	
Type D		specified in 1mm Increment				Selection	n .				
		6	20~150	3							
		8	20~150	3	4	5					
One End Tapped	Both Ends Tapped	10	20~150	3	4	5	6				
		12	20~150		4	5	6	8			0.51
SFAT		13	25~150		4	5	6	8			0.5 or Less
SSFAT RSFAT		15	25~150		4	5	6	8	10		
NOFAI		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	1.0 or Less



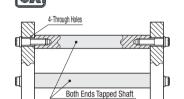


Alterations	Code	Spec.
LKC	LKC	L Dimension Tolerance Change (Precision)  [Ordering Code] LKC L dimensions can be specified in 0.1 mm increment for LKC.  **L<150 ***-*L±0.03
MD(Mx3) ND(Nx3)	MD ND	Change the effective tap depth to M(N)x3.  [Ordering Code] MD6/ND6 (M is changed to MD, N is changed to ND)  [Indication Notes] Only applicable to D=6~30, M=6~20  [One End Tapped: MDx3.5+4±L  [One Ends Tapped: MDx3.5+4+NDx3.5+4±L

Alterations	Code	Spec.
MSC (Fine) NSC (Fine)	MSC NSC	Change to Fine Tapped Thread

Part Number							
Type	D	Min. L ~ 40	L41~60	L61~80	L81~100	L101~125	L126~15
	6						
	8						
	10						
<b>SFAT</b>	12						
	13						
	15, 16						
	18, 20						
	6						
	8, 10						
<b>SSFAT</b>	12, 13						
	15, 16						
	18, 20						
	6						
	8						
	10						
	12						
<b>RSFAT</b>							
	15						
	16						
	18						
	20						
	6						
	8						
	10						
SFAW	12						
	13						
	15, 16						
	18, 20						

Part Number		Unit Price							
Type	D	Min. L ~ 40	L41~60	L61~80	L81~100	L101~125	L126~150		
	6								
	8, 10								
<b>SSFAW</b>	12, 13								
	15, 16								
	18, 20								
	6								
	8								
	10								
	12								
<b>RSFAW</b>	13								
	15								
	16								
	18								
	20								



Example

• As Full Length Hardness Guaranteed Shafts cause no hardness loss, they are well suited for short stroke sliding.

#### Features of Low Temp. Black Chrome Plating

Low temp. black chrome plating ( $1\mu \sim 2\mu$  thickness) applied on shafts has highly anti-rusting effect with thin black film.

Even hairpin-shaped bending won't cause cracks. Plating won't be flaked by repeat bending.

Shaft O.D. tolerance remains g6 after low temp. black chrome plating is applied. Works well with linear bushings and suitable for places where rusting is to be avoided. Suitable for places where light reflections are undesirable, when used in combination with low temp. black chrome plated linear bushing.





See each product page for details.



Alterations See each product page for details.

Sliding Test Conditions

Linear Bushings: LMUR12 RSFJ12

**High Precision Linear Shafts:** Material

50km sliding test was conducted on Linear Bushings under 412N load.

## Low Temp. Black Chrome Plated Shafts (Regular Products):

Material	Applicable Shaft Diameter	Applicable Shaft Length		
SUJ2	Ø3~Ø30	Up to 500		

### **Full Length Hardness Guaranteed Shafts:**

Material	Applicable Shaft Diameter	Applicable Shaft Length		
SUJ2	Ø6~Ø20	Up to 150		

SUJ2	Ø4~Ø30	Up to 448
SUS440C Equivalent	₩4~₩30	Op 10 440

<sup>(</sup>Note 1) Wiping low temp. black chrome plated products with solvents may result in loss of color but its anti-rust property will be unaffected.

Color will settle over a month and become resistant to discoloration.
(Note 2) Tapped threads will not be coated with Low Temp. Black Chrome Plating.

<sup>(</sup>Note 3) Low temp. black chrome plated shafts may have centering holes on the ends for surface treatment.