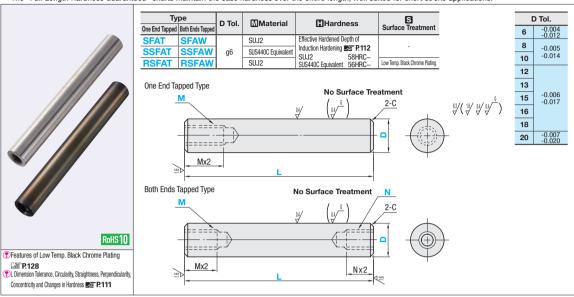
## **Full Length Hardness Guaranteed Shafts**

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)							
Type D		specified in 1mm Increment				Selectio	n .			С	
		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	SFAW	13	25~150		4	5	6	8			0.5 or Less
SSFAT RSFAT	SSFAW RSFAW	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	
	ĺ	20	30~150		4	5	6	8	10	12	1.0 or Less

<sup>•</sup> L requires Mx2+Nx2≤L.
• When Mx2.5+4+Nx2.5+4≥L, tap pilot holes may go through.





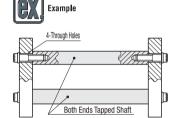
Alterations	Code	Spec.	1
LKC	LKC	L Dimension Tolerance Change (Precision)  Ordering Code   LKC  L dimensions can be specified in 0.1mm increment for LKC.  L<150L±0.03	MSC (Fin
MD(Mx3) ND(Nx3)	MD ND	Change the effective tap depth to M(N)x3.  Ordering Code   MD6:NID6 (M is changed to MD, N is changed to ND)  Reptication 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 (Fine) NSC (Fine)	MSC NSC	Change to Fine Tapped Thread  (**PApplicable to D=12 or more   Didering Code  MSC14 (M is changed to MSC)   NSC14 (M is changed to MSC)   D

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							
<b>SFAW</b>								
	13							
	15, 16							
	18, 20							

Limit Deine

Part Number		Unit Price						
Туре	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							



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 q6 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

LMUR12 Linear Bushings: RSFJ12

**High Precision Linear Shafts:** Material

SUS440C Equivalent

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

Ø4~Ø30

Applicable Shaft Diameter | Applicable Shaft Length

Up to 448

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

## Full Length Hardness Guaranteed Shafts:

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

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

<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.

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