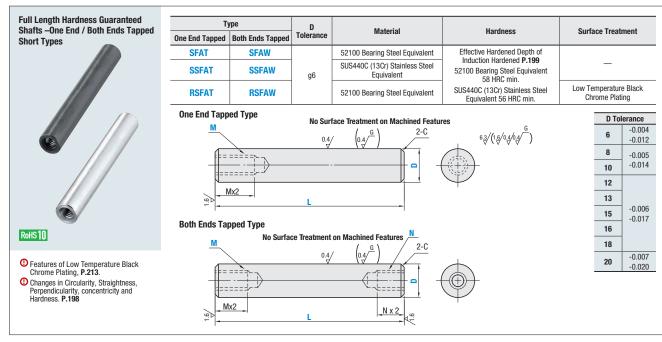
Full Length Hardness Guaranteed Shafts

One End / Both Ends Tapped Short Types



Part Number Type D		L 1 mm Increment	M (Coarse Threads) / N (Coarse Threads)			0					
							U				
One End Tapped Type SFAT SFAW SSFAT RSFAT RSFAW RSFAT SSFAW	6	20-150	3								
	8	20-150	3	4	5						
		10	20-150	3	4	5	6				
		12	20-150		4	5	6	8			0.51
		13	25-150		4	5	6	8			0.5 or Less
		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	1.0 or Less

U L requires Mx2+Nx2≤L

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





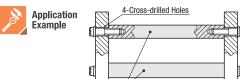
Feature: Other shaft products may suffer from lowered hardness areas due to annealing required for tapping. The "Full Length Hardness Guaranteed" shafts maintain the case hardness over the entire length, well suited for short stroke applications.

Full Length Hardness Guaranteed Shafts

One End / Both Ends Tapped Short Types, continued



Alterations	Code	Spec.				
.::>	LKC	L Dimension Tolerance Changes (Precision) Ordering Code: LKC L dimensions can be specified in 0.1 increment for LKC. ○ L<150 → L±0.03				
MSC (Fine Thread) NSC (Fine Thread)	MSC NSC	Change to Fine Tapped Thread				



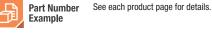
As Full Length Hardness Guaranteed shafts cause no hardness loss, they are well suited for short stroke sliding.

Features of Low Temperature Black Chrome Plating

Low temperature black chrome plating (1–2 μ thickness) applied on shafts has highly anti-rusting effect with thin black film. Even hairpin-shaped bending won't cause cracks. Plating won't flake from repeat bending. Shaft O.D. tolerance remains g6 after low temperature 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 temperature black chrome plated linear bushing.







High Precision Linear Shafts

Sliding Test Conditions

Linear Bushings: LMUR12

50 km 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			
52100 Bearing Steel Equivalent	Ø3-Ø30	Up to 500			

Material	Applicable Shaft Diameter	Applicable Shaft Length	
52100 Bearing Steel Equivalent	Ø4–Ø30	Up to 448	
SUS440C (13Cr) Stainless Steel Equivalent	ש4–שט0 שליים		

Full Length Hardness Guaranteed Shafts

Material		Applicable Shaft Diameter	Applicable Shaft Length			
	52100 Bearing Steel Equivalent	Ø6 – Ø20	Up to 150			

Note 1: Wiping low temperature 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 Temperature Black Chrome Plating.

Note 3: Low temperature black chrome plated shafts may have centering holes on the ends for surface treatment.