

## Standard LM Shafts

THK manufactures high quality, dedicated LM shafts for linear bushings.

(1) [Major materials]

SUJ2 (high-carbon chromium bearing steel)

THK5SP (THK standard material)

SUS440C equivalent

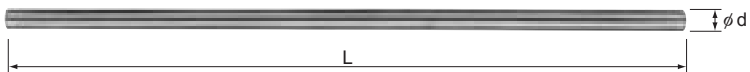
[Hardness] 58 to 64 HRC

[Hardened layer depth] 0.8 to 2.5 mm (varies with shaft diameter)

[Surface roughness] Ra0.20 to Ra0.40

[Straightness of the LM shaft] 50  $\mu$ m/300 mm or less

(2) Precision-grade LM shafts with shaft diameter tolerance of g5 or h5 are also manufactured as standard.



Unit: mm

Model No.	Shaft diameter		Manufactured length L	
	d	Tolerance g6 $\mu$ m	Min length	Max length
SF 3	3	-2 -8	20	400
SF 4	4	-4 -12	20	400
SF 5	5		20	500
SF 6	6	-5 -14	20	1500
SF 8	8		20	1500
SF 10	10	-6 -17	30	1500
SF 12	12		30	1500
SF 13	13	-7 -20	40	3000
SF 16	16		40	3000
SF 20	20	-9 -25	50	3000
SF 25	25		60	3000
SF 30	30	-10 -29	70	3000
SF 35	35		100	3000
SF 38*	38	-12 -34	100	3000
SF 40	40		100	3000
SF 50	50	200	100	3000
SF 60*	60		200	3000
SF 80*	80	200	3000	
SF 100*	100		200	3000

Note)\*Made to order