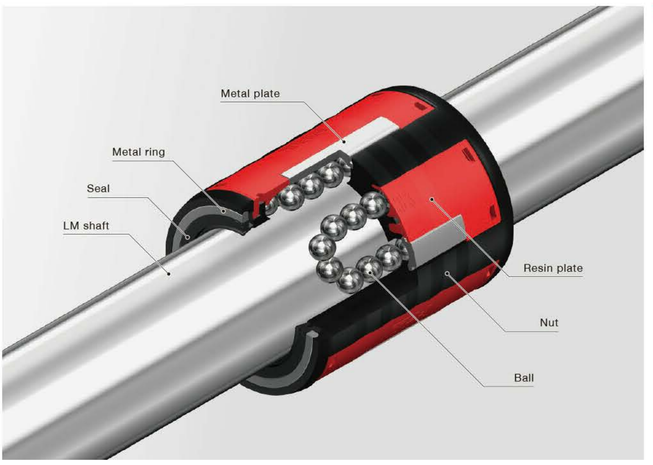
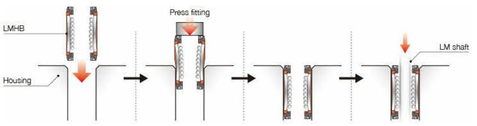
Features

Structure



Easy to Install

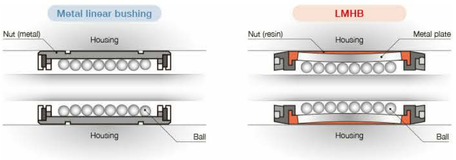
Unlike with a metal linear bushing, the nut of the LMHB is press-fit into a housing.
Using an LMHB makes it possible to automate installation and boost productivity by reducing installation time.



	Common methods for fastening a metal linear bushing	Using press fitting to fasten an LMHB
Installation process		

Silent and Clearance-Free

The LMHB achieves smooth, silent motion thanks to the spring effect provided by the proprietary curved metal plates designed by THK, which minimize clearance between the balls and LM shaft.



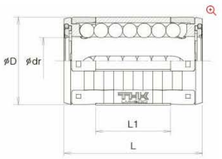
Thin, Compact, ISO-Standard Design

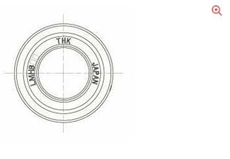
The LMHB conforms to ISO 10285 Series 1, and it allows for more compact machine designs.

Detailed information for each model number

Toggle chart | Model LMHB

Dimensional drawing/Dimensional table





Unit:mm

Model No.	Ball rows	Inscribed bore diameter[1]		Outer diameter	Overall length		Metal plate length	Basic load rating		Mass (g)
		dr	Tolerance	D	L	Tolerance	L_1	C (N)	C_0 (N)	
LMHB 8S	4	8	0 -0.009	15	17	±0.2	7.5	432	211	5.3
LMHB 8	4	8	0 -0.009	15	24	±0.2	13	619	352	7.6
LMHB 10	5	10	0 -0.009	17	26	±0.2	13	730	409	9.6
LMHB 12	5	12	0 -0.009	19	28	±0.2	15.4	868	509	12.1
LMHB 14	5	14	0 -0.009	21	28	±0.2	15.4	897	522	12.8
LMHB 16	5	16	0 -0.009	24	30	±0.2	15.4	1162	621	17.8
LMHB 20	6	20	0 -0.01	28	30	±0.2	15.4	1462	786	21.7

Notes on dimensional table

[1]The tolerance of the inscribed bore diameter is the value when press-fit to the lower limit of the recommended housing inner diameter (H7).
See "Housing Inner Diameter Dimensions and LM Shaft Outer Diameter Dimensions" for details.
The inscribed bore diameter will change based on the the inner diameter of the housing.
The tolerance of the inscribed bore diameter does not include the curvature of the metal plates.

Model Number Coding

