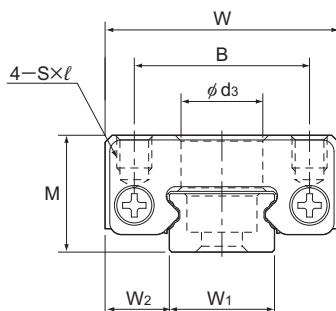


Model EPF



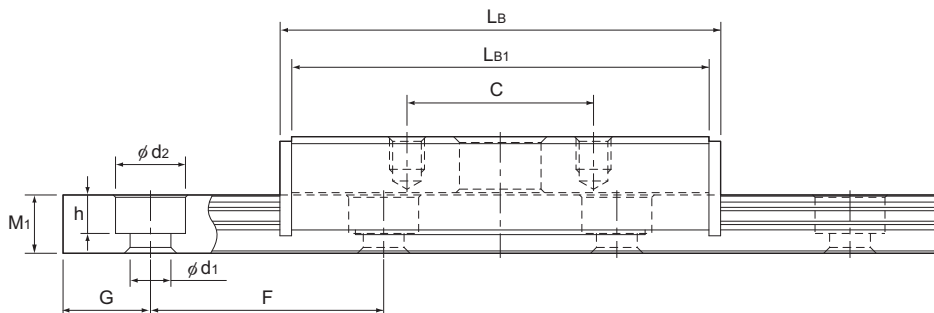
Model No.	Outer dimensions			LM block dimensions					LM rail dimensions		
	Height M	Width W	Length L _B	B	C	d ₃	S × l	L _{B1}	W ₁	W ₂	M ₁
EPF 7M	8	17	31.6	12	13	5	M2×2.3	29.6	7	5	5
EPF 9M	10	20	37.8	15	16	7	M3×2.8	35.8	9	5.5	5
EPF 12M	13	27	43.7	20	20	7	M3×3.2	41.7	12	7.5	6.75
EPF 15M	16	32	56.5	25	25	7	M3×3.5	54.5	15	8.5	9

Model number coding

EPF7M*	16	+55L	P	M
Model No.	LM rail length (in mm)	Guaranteed stroke (in mm)	Rail material: Stainless steel (standard)	Accuracy symbol (*1)

(*1) See **A1-86**.

Note) *: Stainless steel is the standard material used for LM blocks.
This model number denotes one set consists of an LM block and LM rail.



Unit: mm

			Guaranteed stroke	Basic load rating		Static permissible moment $N \cdot m^*$			Mass	
G	F	$d_1 \times d_2 \times h$	S_T	C	C_0	M_A	M_B	M_C	LM block	LM rail
								kg	kg/m	
5	15	2.4×4.2×2.6	16	0.90	1.60				0.019	0.230
7.5	20	3.5×6×3.3	21	1.00	1.87	6.81	6.81	7.89	0.036	0.290
10	25	3.5×6×3.8	27	2.26	3.71	15.5	15.5	20.8	0.074	0.550
15	40	3.5×6×4	34	3.71	5.88	33.0	33.0	41.3	0.136	0.940

Note) THK AFJ grease is provided as the standard grease.

Static permissible moment*: Static permissible moment value with 1 LM block

Recommended Tightening Torques of Mounting Bolts

Unit: N·m

Model No.	Nominal bolt	Rated tightening torque		
		Iron	Casting	Aluminum
EPF 7M	M2	0.588	0.392	0.294
EPF 9M	M3	1.96	1.27	0.98
EPF 12M				
EPF 15M				

Table2 Maximum slip resistance

Unit: N

Model No.	Maximum slip resistance
EPF 7M	20
EPF 9M	20
EPF 12M	30
EPF 15M	30

Note) While the cage used to hold the balls is designed to operate extremely precisely, factors such as impacts or inertial moment or drive vibration from the machine can cause cage distortion.

If using the EPF LM guide in the following conditions, contact THK.

- Vertical Orientation
 - Under a large moment load
 - Butting the guide's external stopper with the table
 - For applications involving high acceleration/deceleration
- If cage distortion occurs, the cage must be forcibly restored to its original shape.

Table 1 shows the required slip resistance in this event. Set the thrust so that it is no less than the maximum value shown in the table.