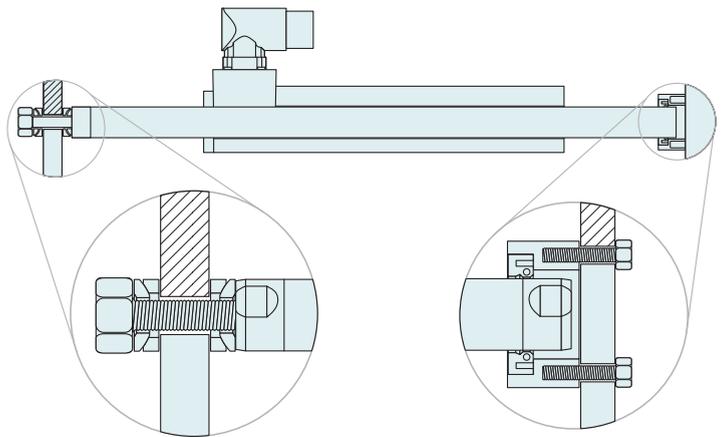


Slider Mounting

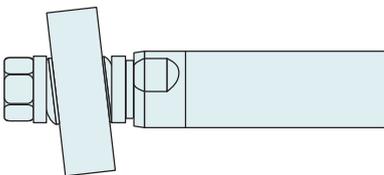
Depending on the application, LinMot linear motors can be operated with a "moving Slider" or "moving stator." Applications with short stroke ranges are preferably implemented with moving sliders; applications with long strokes are better with a moving stator. In both cases, LinMot recommends the use of special mounting kits for mounting the Slider, in order to avoid overdetermining the mount.

In moving Slider applications, the stator is mounted, and the Slider is connected to a load that is guided by a linear guide. In order to avoid alignment errors, the Slider is attached to the load or guide using fixed bearings, each consisting of two rounded washers and two bevel washers.

In moving stator applications, the Slider is mounted and the stator is attached to a linear guide, together with the load. In order to avoid overdetermining the Slider bearing, one end of the Slider is mounted on a fixed bearing, and the other on a floating bearing.

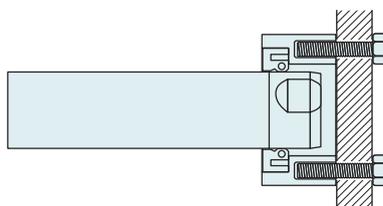


FIXED BEARING



The fixed bearing consists of two rounded washers and two bevel washers. It compensates for angular and axial deflection.

FLOATING BEARING

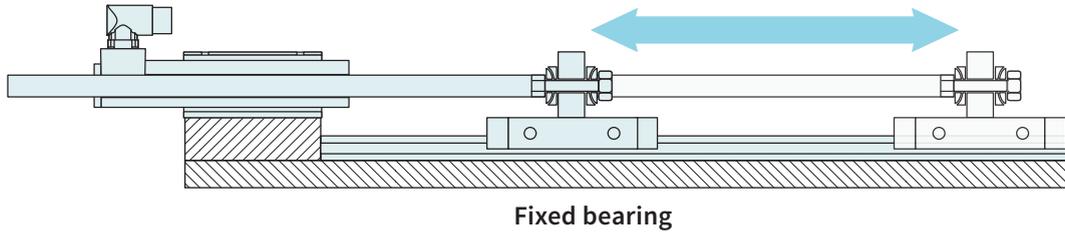


The Slider is mounted in a rubber ring as a floating bearing. The floating bearing compensates for angular and axial displacement and length tolerance.

MATERIAL

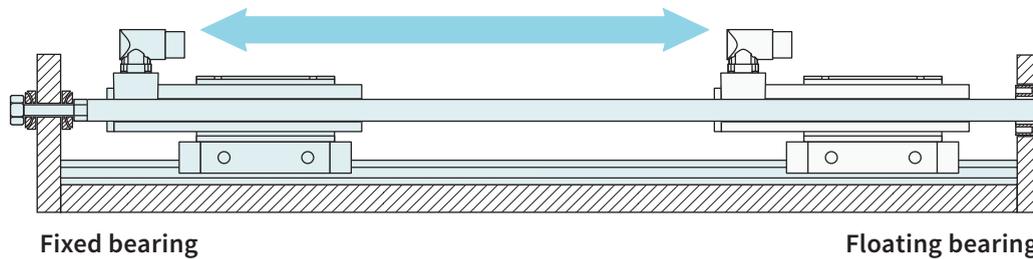
-   Rounded and bevel washers:
Stainless steel, case-hardened steel or nickel plated
-  Bearing:
NBR
(Nitrile-Butadiene-Rubber with DIN17223 spring steel)
-  Housing:
Stainless steel 1.4305

MOVING SLIDER



Fixed bearing

MOVING STATOR



Fixed bearing

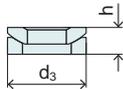
Floating bearing

DIMENSIONS AND ORDERING INFORMATION

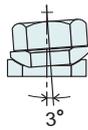
Fixed bearing



DIN 6319 C

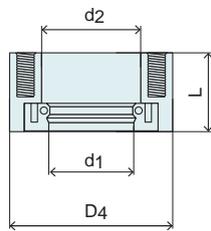
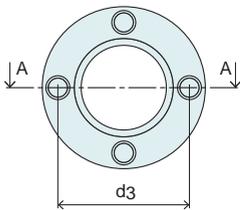


DIN 6319 D



Item	Material	Slider	Thread	d1	d2	d3	h
PLF01-12	Steel case hardened	12 mm	M5	5.2 mm (0,20 in)	6.0 mm (0,24 in)	10,5 mm (0,41 in)	3,2 mm (0,13 in)
PLF01-12-Ni	Steel nickel plated						
PLF01-20	Steel case hardened	19/20 mm	M8	8.4 mm (0,33 in)	9.6 mm (0,38 in)	17 mm (0,67 in)	5,5 mm (0,22 in)
PLF01-20-SS	Stainless steel 1.4301						
PLF01-28	Steel case hardened	27/28 mm	M10	10,5 mm (0,41 in)	12 mm (0,47 in)	21 mm (0,83 in)	6,5 mm (0,26 in)
PLF01-28-SS	Stainless steel 1.4301						

Floating bearing



A-A

Item	Slider	Thread	d1	d2	d3	d4	L
PLL02-12	12 mm	-	12 mm (0,47 in)	Rubber ring	-	22 mm H8 (0,87 in)	7,0 mm (0,28 in)
PLL01-19	19 mm	M5	19 mm (0,75 in)	23 mm (0,90 in)	30 mm (1,18 in)	37 mm (1,46 in)	20 mm (0,79 in)
PLL01-20	20 mm	M5	20 mm (0,79 in)	23 mm (0,90 in)	30 mm (1,18 in)	37 mm (1,46 in)	20 mm (0,79 in)
PLL01-27	27 mm	M5	27 mm (1,06 in)	32 mm (1,26 in)	40 mm (1,57 in)	48 mm (1,89 in)	20 mm (0,79 in)
PLL01-28	28 mm	M5	28 mm (1,10 in)	32 mm (1,26 in)	40 mm (1,57 in)	48 mm (1,89 in)	20 mm (0,79 in)

Item	Description	Item-No.
PLF01-12	Fixed bearing for 12 mm Slider	0150-3085
PLF01-12-Ni	Fixed bearing for 12 mm Slider, nickel plated	0150-3573
PLF01-20	Fixed bearing for 19 mm and 20 mm Slider	0150-3083
PLF01-20-SS	Fixed End Washer Set for 19/20 mm sliders, stainless steel	0150-3296
PLF01-28	Fixed End Washer Set for 27/28 mm sliders	0150-3087
PLF01-28-SS	Fixed End Washer Set for 27/28 mm sliders, stainless steel	0150-3297
PLL02-12	Floating bearing for PL01-12 Slider, Mat. 1.4305 /AISI 303	0150-3111
PLL01-19	Floating bearing for PL01-19 Slider, Mat. 1.4305 /AISI 303	0150-3335
PLL01-20	Floating bearing for PL01-20 Slider, Mat. 1.4305 /AISI 303	0150-3084
PLL01-27	Floating bearing for PL01-27 Slider, Mat. 1.4305 /AISI 303	0150-3294
PLL01-28	Floating bearing for PL01-28 Slider, Mat. 1.4305 /AISI 303	0150-3094
PLM01-20-MK	Mounting kit for PL01-20 Slider	0150-3079
PLM01-28-MK	Mounting kit for PL01-28 Slider	0150-3095