

MULTI-ROLLER LINEAR GUIDE MLGX32 For Medium Load **NEW**

Latest
Info



Multiple guide blocks can be used in a guide rail.

- The unique structure called “Dual X” allows for smooth movement even when the load is applied horizontally or vertically.
- The rail is for medium load, designed to withstand an operating load of up to 300 N in either a horizontal or vertical direction.
- Since there is no ball creep, it can be used together with a motor drive.
- Moves smoothly even when moment load occurs.
- The guide block is a preloaded type with minimal backlash.

Application

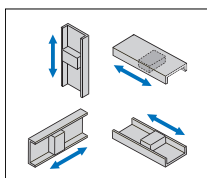
- Automatic machine, medical equipment, analytical instrument, machine tool.

Remarks

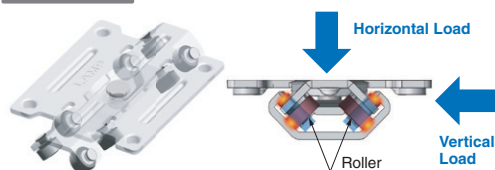
- Please use with stoppers.

Mounting Direction

Can be mounted in the following directions



Dual X Structure



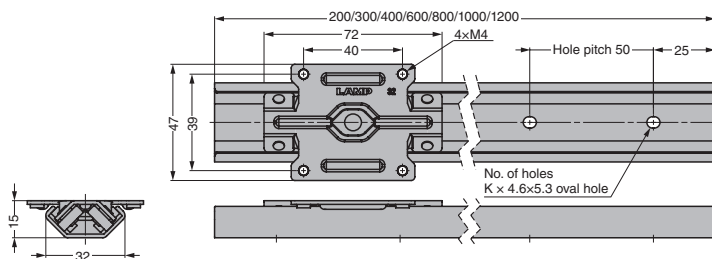
Rollers are located at two different angles to resist both horizontal and vertical loads.

No Ball Creep



Ball creep² does not occur on roller slides, unlike ball bearing slides.

*2 A phenomenon where travel distances vary between outward and return paths due to a misaligned ball contact point that may occur depending on the smoothness of sliding or applied force when a ball type rail is moved. If extra load is applied in this state, the rail may become unable to move.

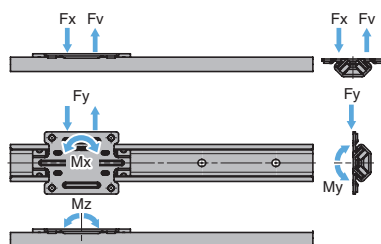


The figure shows the dimensions when the guide rail and a guide block are combined.

[Rated Load Reference Values]

Loading Direction	Horizontal Load Fx		Vertical Load Fy		Horizontal Load Fv	
	N	kgf	N	kgf	N	kgf
Max. Load Capacity	500	51.0	500	51.0	200	20.4
Operating Load	300	30.6	300	30.6	120	12.2

Loading Direction	Moment Mx		Moment My		Moment Mz	
	N-m	kgf-cm	N-m	kgf-cm	N-m	kgf-cm
Max. Moment	8.0	81.6	3.0	30.6	8.0	81.6
Operating Moment	4.8	48.9	1.8	18.3	4.8	48.9



Parallelism tolerance in motion

When travelling over a 200 mm rail length, the variation is approximately 0.03 mm in the vertical direction and 0.03 mm in the horizontal direction.