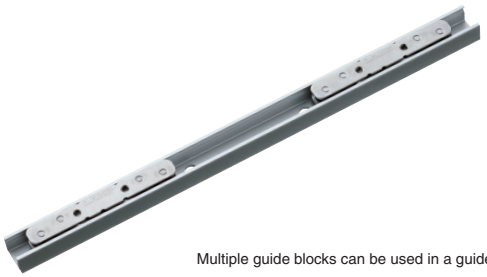
MULTI-ROLLER LINEAR SLIDE MLG13 Slim Type

Passed a run test of 60 km



Multiple guide blocks can be used in a guide rail.

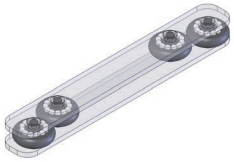
- Allows for smooth movement with the unique mechanism called "multi-roller".
- Tested at 200 mm/s for 300,000 round trips of 100 mm (total distance 60 km).
- Since there is no ball creep, it can be used together with a motor drive.
- Slim type with a guide rail width of 13 mm.

[Application]
Medical equipment, food machine, amusement machine, analytical instruments.

[Other]
- Guide rails with a length of up to 2000 mm are available through custom order.

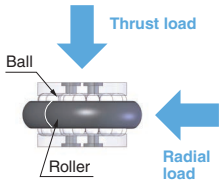
[Remarks]
- Please use with stoppers.

[The Unique Mechanism]

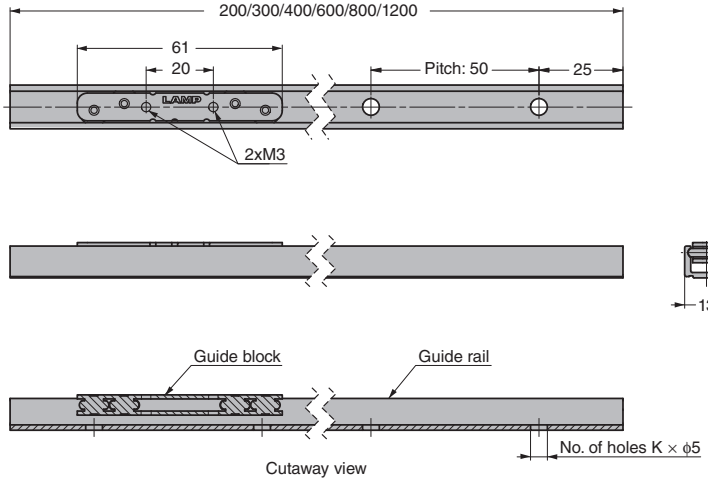


No ball creep due to roller type mechanism.

Ball creep is a phenomenon where travel distances vary between outward and return paths due to a misaligned ball contact point that may occur on ball type rails because of sliding or applied force.
If extra load is applied in this state, the rail may become unable to move.

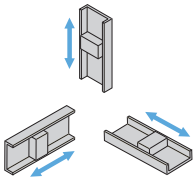


The multi-roller mechanism allows for smooth movement even with loads applied in radial or thrust directions.



[Mounting Directions]

Can be mounted in the following directions



[Rated Load Reference Values] The rated load refers to the load limit.

Rated Load Reference Values

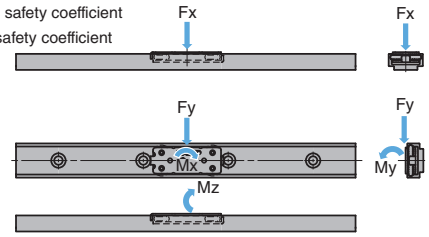
- Max. load = Static rated load × Static safety coefficient
- Max. moment = Static rated moment × Static safety coefficient
- Operating load = Max. load × Dynamic safety coefficient
- Operating moment = Max. moment × Static safety coefficient

Use Conditions	Static Safety Coefficient	Dynamic Safety Coefficient
Low movement frequency with gentle movement	0.4 ~ 0.5	0.9 ~ 1.0
High movement frequency with smooth movement	0.3 ~ 0.4	0.6 ~ 0.8
High movement frequency with vibration or impact	0.2 ~ 0.3	0.3 ~ 0.5

Item Name	Horizontal Static Rated Load Fx		Vertical Static Rated Load Fy	
	N	kgf	N	kgf
MLG-13C	40	4.0	40	4.0

Although the rollers of MLG-13C are installed alternately, the rated load is the same even when it is mounted in reverse.

Item Name	Vertical Static Rated Moment Mx		Horizontal Static Rated Moment My		Horizontal Static Rated Moment Mz	
	N·m	kgf·cm	N·m	kgf·cm	N·m	kgf·cm
MLG-13C	1.0	10.2	0.2	2.0	1.2	12.2

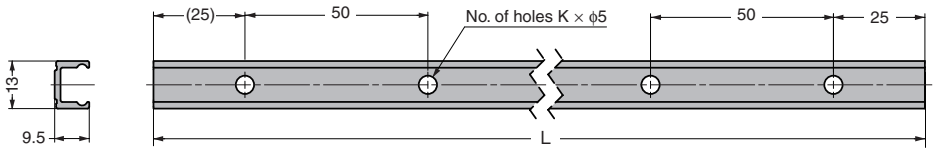


The calculation formula above is for reference purpose only.
Please confirm with the actual item before use.

GUIDE RAIL MLG13

[Recommended Screw]
●Hexagon socket bolt M4 (head diameter: ϕ7.6 mm or less, head height: 2.2 mm or less)

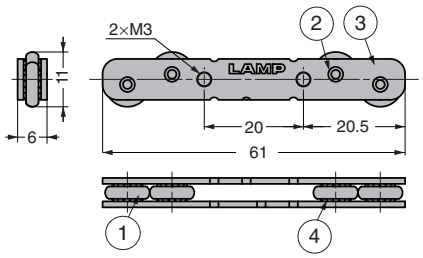
[Remarks]
●The rail mounting holes and ends are uncoated.



RoHS	CAD	Item Code	Item Name	Length (L)	No. of Holes K	Material	Finish	Weight (g)/Rail	Box (pcs)
●	2D 3D	190-047-265	MLG13-200	200	4	Aluminium Alloy	Silver Anodised	23	760
●	2D 3D	190-047-266	MLG13-300	300	6			34	860
●	2D 3D	190-047-267	MLG13-400	400	8			45	1,000
●	2D 3D	190-047-268	MLG13-600	600	12			68	1,330
●	2D 3D	190-047-269	MLG13-800	800	16			91	1,650
●	2D 3D	190-047-270	MLG13-1200	1200	24			137	2,450

GUIDE BLOCK MLG-13C

[Recommended Screw]
●Screw M3 (Max. length: sheet thickness + 4 mm)



No.	Part Name	Material
①	Roller	Polyacetal (POM)
②	Pin	Stainless Steel (SUS303)
③	Plate	Stainless Steel (SUS304)
④	Ball	Steel (SUJ)

RoHS	CAD	Item Code	Item Name	Weight (g)	Box (pcs)
●	2D 3D	190-047-264	MLG-13C	11	1,000