

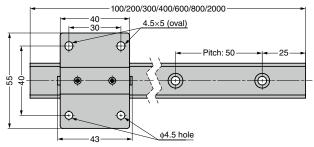
MULTI-ROLLER LINEAR SLIDE MLG20 Mini Type

Passed a run test of 60 km









- 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.
- A 100 mm type rail is now available.
- A short guide block is now available. The full length is shorter, allowing the travel length to increase by 13 mm.
- An 8-wheel guide block is now available. The load rating has been improved while maintaining the same travel distance.

[Application]

Medical equipment, food machine, amusement machine, analytical instruments.

[Remarks]

- Please use with stoppers.
- Mounting plates cannot be attached to short or 8-wheel guide block.

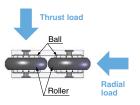
[The Unique Mechanism]



No ball creep due to roller type

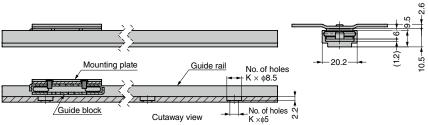
Ball creep is a phenomenon where travel distances vary between outward and return path due to a misaligned ball contact point that may occur on ball type rails because of sliding or applied force.

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.





* The figure shows the dimensions when the guide rail, guide block (MLG-20C), and mounting plate are combined.

[Mounting Directions]

Can be mounted in the following directions



Rated Loa	d Reference	Values] Th	e rated load	d refers to the loa	i limit			
Rated Load	d Reference V	/alues						
Max. load	= Static rated lo	ad × Static saf	ety coeffici	ient Max. m	omen	t = Static rated	moment × Stat	ic safety coefficient
Operating	load = Max. load	d × Dynamic s	afety coeffi	icient Operati	ng mo	ment = Max. r	noment × Static	safety coefficient Fx Fx
	Use Condi	tions	S	tatic Safety Coef	icient	Dynamic Saf	ety Coefficient	
Low moven	nent frequency wi	ith gentle move	ment	0.4 ~ 0.5		0.9	~ 1.0	C2-1-52
High mover	ment frequency w	ith smooth mov	ement	0.3 ~ 0.4		0.6	~ 0.8	
High mover	ment frequency w	ith vibration or	impact	0.2 ~ 0.3		0.3	~ 0.5	Fy Fy
Item Name Horizontal Static Rated Load Fx		Vertical St		Static Rated Load Fy				
item Name	N		kgf		N		kgf	
MLG-20C	40		4.0		40		4.0	
MLG-20CS	40		4.0		40		4.0	Mz
MLG-20C-8	80		8.1		30		8.1	
Item Name Vertical Static Rated Moment Mx Horizontal St				Static Rated Moment My Ho		Horizontal Static Rated Moment Mz		
item Name	N⋅m	kgf⋅cm	N⋅m	n kgf⋅cn		N⋅m	kgf⋅cm	
MLG-20C	1.2	12.2	0.4	4.0		0.8	8.1	The calculation formula above is for reference purpose only
MLG-20CS	0.8	8.1	0.4	4.0		0.4	4.0	Please confirm with the actual item before use.
MLG-20C-8	1.8	18.3	0.8	8.1		1.2	12.2	



GUIDE RAIL MLG20

D4

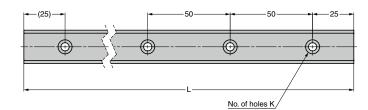
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[Recommended Screw]

[Remarks]

LAMP

The rail mounting holes and ends are uncoated.



SHORT GUIDE BLOCK MLG-20CS

Multiple guide blocks can be used on a single rail.

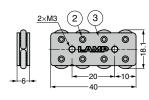
RoHS CAD	Item Code	Item Name	Length (L)	No. of Holes K	Material	Finish	Weight (g)
● 2D3D	190-047-272	MLG20-100	100	2			
● 2D <mark>3D</mark>	190-045-763	MLG20-200	200	4			36
● 2D <mark>3D</mark>	190-045-764	MLG20-300	300	6			54
2D3D	190-045-765	MLG20-400	400	8	Aluminium Alloy	Silver Anodised	72
● 2D3D	190-050-438	MLG20-600	600	12			108
● 2D3D	190-050-439	MLG20-800	800	16			144
● 2D <mark>3D</mark>	190-050-440	MLG20-2000	2000	40			359

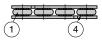
8-WHEEL GUIDE BLOCK MLG-20C-8

[Recommended Screw]

Screw M3 (Max. length: sheet thickness + 4 mm)



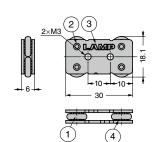




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[Recommended Screw]

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)		

• 2000 190-047-271 MLG-20CS 11	RoHS	CAD	Item Code	Item Name	Weight (g)
	•	2D <mark>3D</mark>	190-047-271	MLG-20CS	11

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

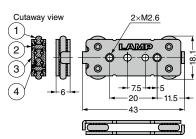
RoHS	CAD	Item Code	Item Name	Weight (g)
•	<u>3D</u> 3D	190-054-826	MLG-20C-8	15

GUIDE BLOCK MLG-20C



[Recommended Screw]

Screw M2.6 (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)
	20,20	100-045-762	MLG-20C	12

MOUNTING PLATE MLG20-P55-40



• \$\phi4.5\$ holes and 4.5 x 5 slotted holes are pre-drilled.

[Parts Included]

■No. 0 Class 1 pan head screw, M2.6 x 4, with looseness stop (guide block mounting screw)

[Recommended Screw]

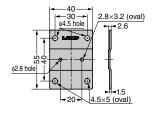
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[Remarks]

Cannot be attached to short or 8-wheel guide blocks.



Guide rail and guide block combination (MLG-20C) pictured.



RoHS	CAD	Item Code	Item Name	Material	Weight (g)
•	2D3D	190-045-766	MLG20-P55-40	Stainless Steel (SUS304)	26

