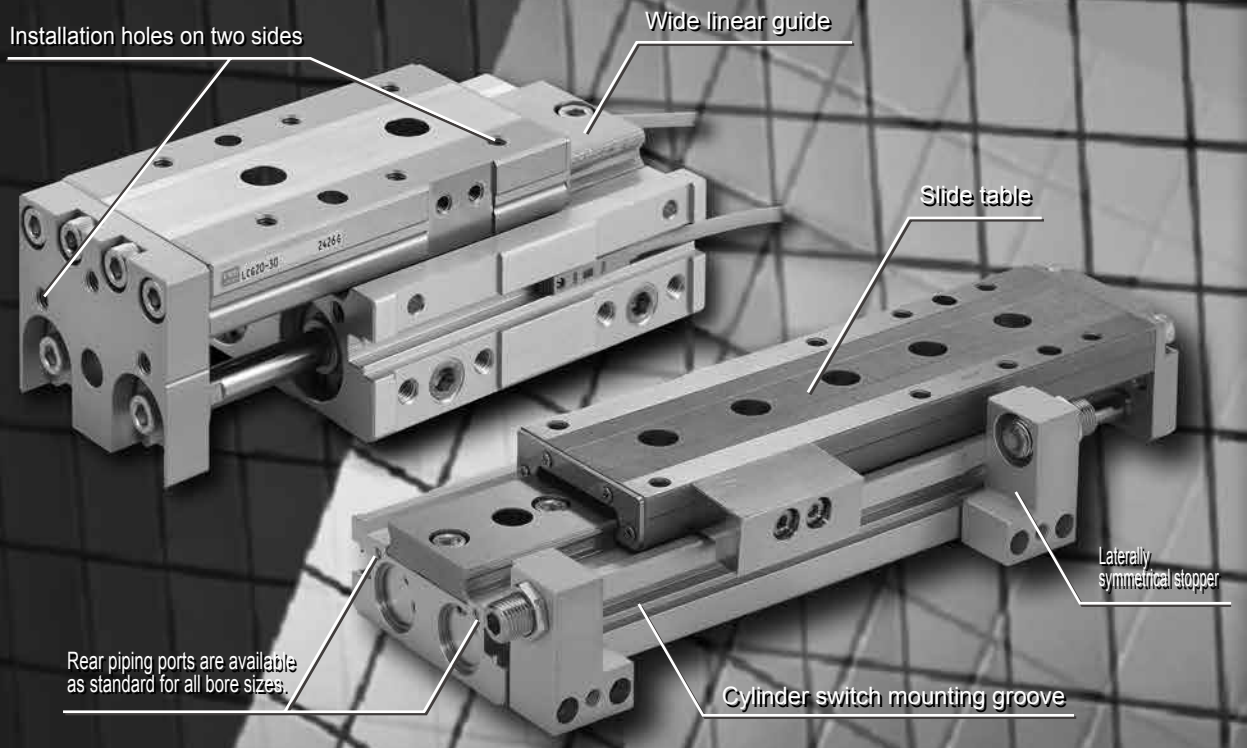
Higher precision, higher rigidity, easier to use.

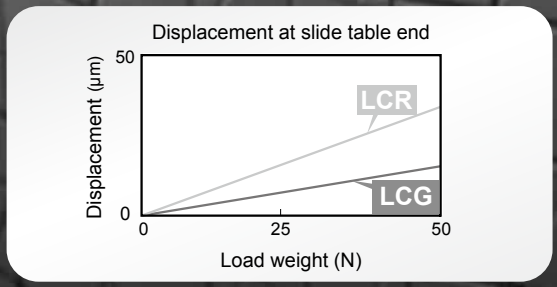


Higher precision

Linear guide table surface is used as the slide table itself. Higher precision than conventional models.
Parallelism of 0.03 mm (ø12 with 30 mm stroke length)
End plate squareness of 0.05 mm

Higher rigidity

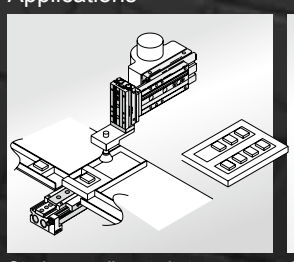
A stainless steel or steel slide table has been adopted instead of the conventional aluminum slide table. It increases rigidity when combined with a wide guide.

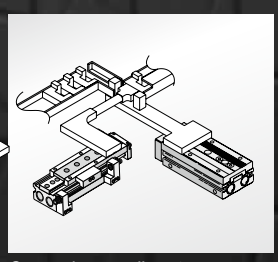


Easy to use, too

No more trouble with designing the cylinder and linear slide system individually. Work hours for designing have been reduced. Designing is more flexible and usability is further enhanced with laterally symmetrical installation of stoppers and multi-side piping.

Applications


Storing small parts in trays or supply from trays


Conveying small parts

LCG Series

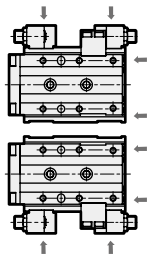
Linear slide cylinder

A high-precision rigid wide guide has been attached to the air cylinder.
The linear guide table surface serves as a slide table.
Greater usability with unprecedented precision and rigidity.
Linear slide cylinder LCG Series (ø6/ø8/ø12/ø16/ø20/ø25)

Increased flexibility in design

Designing is more flexible with the laterally symmetrical stoppers, multi-side piping, two-side installation and positioning hole availability.

■ Change to laterally symmetrical configuration is possible.

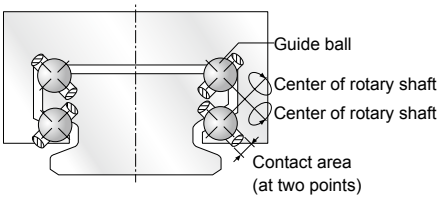


Change to laterally symmetrical configuration is possible
⬅shows the piping direction.

Guide balls aligned in four rows on the linear guide (ø12 or more)

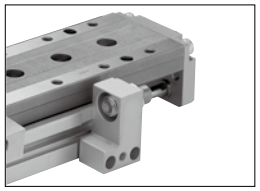
Guide balls aligned in four rows ensure stable operation in all load directions.
The contact area of the guide balls is smaller than that in the two-row configuration with minimum friction resistance and enables smooth precision operation with a rigid body.

■ Aligned in four rows contacting at two points

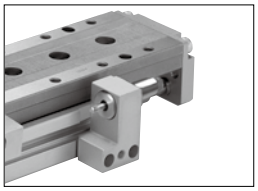


A wide variety of options and variations

Standard, position locking and clean-room specifications are available.
Options include a stroke adjusting stopper, shock absorber stopper and more.
* Shock absorber stopper cannot be used with the clean-room specifications.



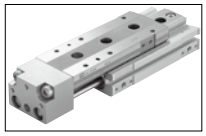
■ Stroke adjusting stopper
(adjusting range on one side: 0 to 5 mm)

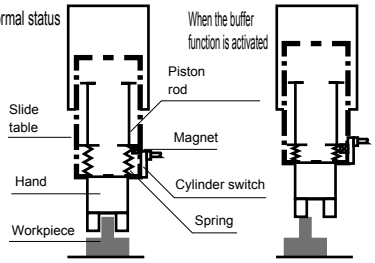


■ Shock absorber stopper reduces the impact at the stroke end.

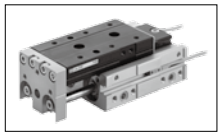
With buffer mechanism

If the driving section strikes against the workpiece when the cylinder is going forward, the buffer function is activated to protect the workpiece and cylinder. Suitable for use at the end of pick & place devices and other applications requiring a buffer function.
A cylinder switch mounted to detect the buffer activation (BL) enables detection of line abnormalities.





Anti-rust (ø20, 25)



The table and rail surface rustproofing reduces rust in high-humidity environments such as near ionizers.

2-color display switch is available

The proximity 2-color display switch can be mounted.
It does not protrude from the body and thus contributes to the plain and simple appearance of the cylinder.

■ LCG Series variation

Model variations	Bore size	Stroke length (mm) 10	20	30	40	50	75	100	125	150	With buffer B*	Anti-rust treatment U
Double acting/single rod **LCG**	ø6	●	●	●	●	●	●	●	●	●	●	●
	ø8	●	●	●	●	●	●	●	●	●	●	●
	ø12	●	●	●	●	●	●	●	●	●	●	●
	ø16	●	●	●	●	●	●	●	●	●	●	●
	ø20/ø25	●	●	●	●	●	●	●	●	●	●	●
Double acting/position locking **LCG-Q**	ø8	●	●	●	●	●	●	●	●	●	●	●
	ø12	●	●	●	●	●	●	●	●	●	●	●
	ø16	●	●	●	●	●	●	●	●	●	●	●
	ø20/ø25	●	●	●	●	●	●	●	●	●	●	●
Double acting/single rod (Clean-room specifications) **LCG-P7***	ø6	●	●	●	●	●	●	●	●	●	●	●
	ø8	●	●	●	●	●	●	●	●	●	●	●
	ø12	●	●	●	●	●	●	●	●	●	●	●
	ø16	●	●	●	●	●	●	●	●	●	●	●
	ø20/ø25	●	●	●	●	●	●	●	●	●	●	●