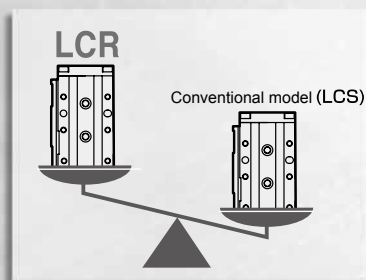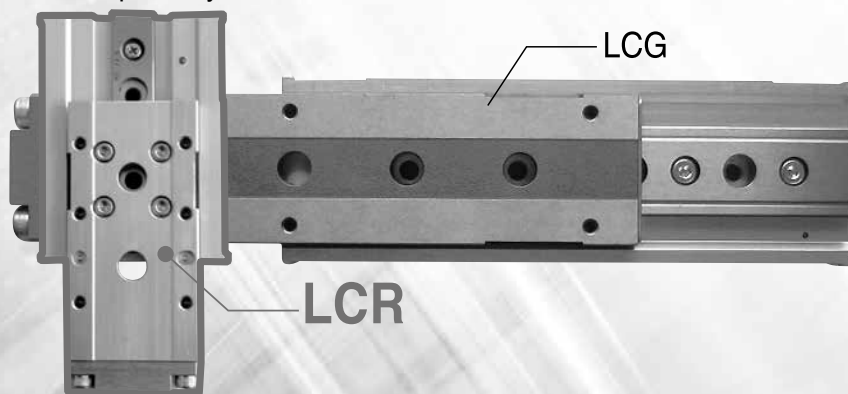# LCR :Renewal
Series

Linear slide cylinder

Extremely lightweight. LCR
:Reduce Weight

Pared down to as much as
10% lighter than the conventional model.
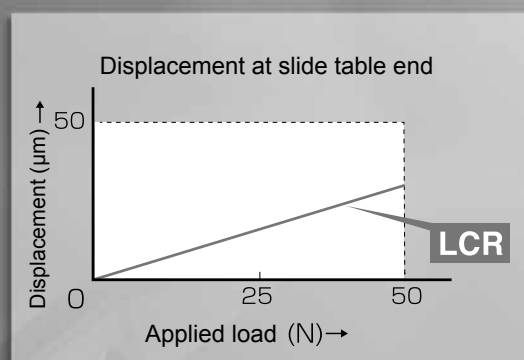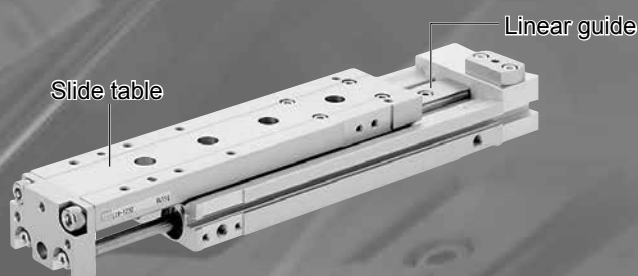
⬤ Compared to the conventional model: Max 10% lighter!!

LCR

Conventional model (LCS)

⬤ Applications
Works perfectly on the Z-axis.

LCG

LCR

The moving part becomes lighter
and thus enables efficient, energy-saving compact equipment.

Increased rigidity. LCR
Rigidity

The highly rigid linear guide and slide table
surpass the conventional model (LCS) in rigidity!

Linear guide

Slide table

Displacement at slide table end

Displacement (μm)

50

0

0   25   50

Applied load (N)→

LCR

CKD

LCM
LCR
LCG
LCW
LCX
STM
STG
STS/STL
STR2
UCA2
ULK*
JSK/M2
JSG
JSC3/JSC4
USSD
UFCD
USC
UB
JSB3
LMB
LML
HCM
HCA
LBC
CAC4
UCAC2
CAC-N
UCAC-N
RCS2
RCC2
PCC
SHC
MCP
GLC
MFC
BBS
RRC
GRC
RV3*
NHS
HRL
LN
Hand
Chuk
MecHnd/Chuk
ShkAbs
FJ
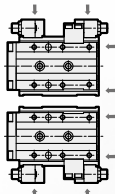FK
SpdContr
Ending

Flexible

Symmetrical structure
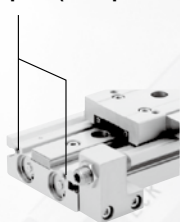## Available for a variety of applications

● Increased flexibility in design

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

■ **Modification to the symmetrical configuration is possible**
← shows the piping direction.

■ **Standard rear piping port (except for ø 6)**

● A wide variety of options and variations

The standard, position locking, clean room specifications and fine speed are available. The options include a stroke adjusting stopper, shock absorber stopper and more.

* A 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**
Reducing impact at the stroke end.

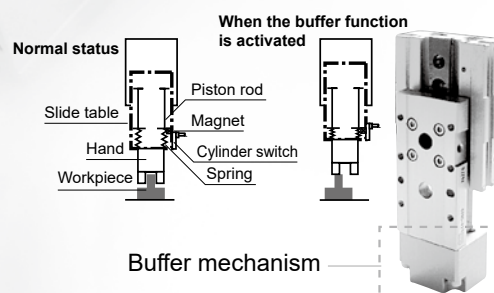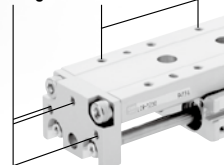### ● 2-color display switch

A proximity 2-color display switch is available. It does not protrude from the body and thus contributes to the simple appearance of the cylinder.

● 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 a pick & place device and other applications requiring a buffer function. A cylinder switch mounted to detect buffer activation enables detection of abnormality of the line (BL).

Normal status

When the buffer function is activated

Slide table
Piston rod
Magnet
Hand
Cylinder switch
Workpiece
Spring

Buffer mechanism

■ **Mounting holes on two sides**

■ LCR product variations

● Option →

Model variations	Bore size	Stroke length (mm)									Stroke adjusting stopper S＊	Shock absorber stopper A＊	With buffer B＊	Switch
		10	20	30	40	50	75	100	125	150				
Double acting/single rod **LCR**	ø 6	●	●	●	●	●					●	●	●	●
	ø 8	●	●	●	●	●	●	●			●	●	●	●
	ø 12	●	●	●	●	●	●	●	●	●	●	●	●	●
	ø 16	●	●	●	●	●	●	●	●	●	●	●	●	●
	ø 20/ø 25	●	●	●	●	●	●	●	●	●	●	●	●	●
Double acting/position locking **LCR-Q**	ø 8	●	●	●	●	●	●	●						●
	ø 12	●	●	●	●	●	●	●	●	●				●
	ø 16	●	●	●	●	●	●	●	●	●				●
	ø 20/ø 25	●	●	●	●	●	●	●	●	●				●
Double acting/single rod (clean room specifications) **LCR-P7＊**	ø 6	●	●	●	●	●					●			●
	ø 8	●	●	●	●	●	●	●			●			●
	ø 12	●	●	●	●	●	●	●	●	●	●			●
	ø 16	●	●	●	●	●	●	●	●	●	●			●
	ø 20/ø 25	●	●	●	●	●	●	●	●	●	●			●
Double acting/fine speed **LCR-F**	ø 12	●	●	●	●	●	●	●	●	●				●
	ø 16	●	●	●	●	●	●	●	●	●				●
	ø 20/ø 25	●	●	●	●	●	●	●	●	●				●
Double acting/fine speed (clean room specifications) **LCR-F-P7＊**	ø 12	●	●	●	●	●	●	●	●	●				●
	ø 16	●	●	●	●	●	●	●	●	●				●
	ø 20/ø 25	●	●	●	●	●	●	●	●	●				●

CKD