



Linear Slide Cylinder LCX Series

LINEAR SLIDE CYLINDER LCX SERIES

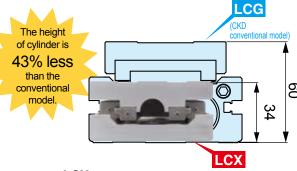


Thinness, lightness, rigidity

Additional option variations cover a wider scope of use.



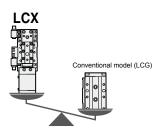
The thinness in every part of the product reduced the LCG height of 60 mm down to 34 mm! Best suited for space saving applications.





Half the product weight of conventional LCG!

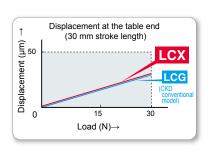
The light-weight movable part enables reduced production time and energy consumption.



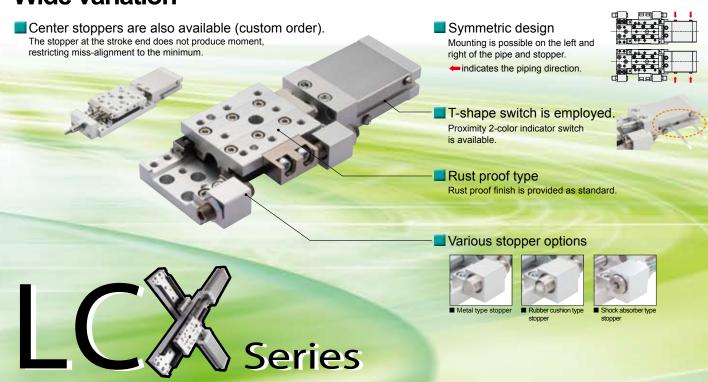


Separate-type linear guide is employed.

Thin and light weight, with the same rigidity as the conventional model (LCG).



Wide variation



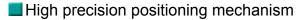
Linear slide cylinder



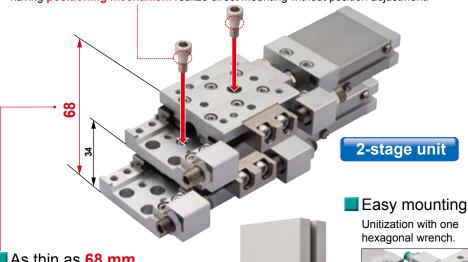


Unitization promotes simplicity, certainty, and precision.

Attractive, rich options including flexible combination, the position locking type, long stroke type (Max. 150 mm), and the dowel hole. The wider scope of use in conveyance and positioning will add to efficient multi-product manufacturing.



The accurate dowel hole and the specialized bolt having positioning mechanism realize direct mounting without position adjustment.



As thin as 68 mm even when stacked

Cross unit

Direct mounting without a connection plate realizes the thinness of the product.

■ LCX product variation



Ф25 Ф32 stroke: 10 to 50 mm



stroke: 10 to 50 mm

LCX-P7* Double acting / single rod

type clean room specifications

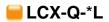
Ф25. Ф32 stroke: 10 to 50 mm



Double acting / single rod High-rigidity, wide guide long stroke



stroke: 75 to 150 mm



Double acting / position locking type long stroke



stroke: 75 to 150 mm

LCX-*L-P7*

Double acting / single rod type / clean room specifications long stroke





Significant reduction of maintenance time

The cylinder section can be replaced while the body being kept mounted on the equipment.

Series variation

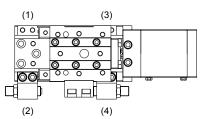
Linear slide cylinder LCX Series

Variation	Model number JIS symbol	Bore size (mm)		Stroke length (mm)								
			10	20	30	40	50	75	100	125	150	
Double acting single rod type	LCX	Ø25/Ø32	•	•	•	•	•					
Double acting position locking type	LCX-Q	ø25/ø32	•	•	•	•	•					
Double acting single rod type clean room specifications	LCX-P7 *	Ø25/Ø32	•	•	•	•	•					
Double acting single rod type long stroke	LCX-*L	Ø25/Ø32						•	•	•	•	
Double acting position locking type long stroke	LCX-Q-*L	Ø25/Ø32						•	•	•	•	
Double acting single rod type clean room specifications long stroke	LCX-*L-P7*	Ø25/Ø32						•	•	•	•	

●: Standard ⊚: Option ○: Available : Not available Option Rubber cushion type stopper Metal type stopper Shock absorber type stopper Stopper position (1)/(3) Stopper position (2)/(4) Stopper position (2)/(4) Stopper position (1)/(3) Stopper position (1)/(3) Stopper position (2)/(4) Stopper position (1) Stopper position (4) Stopper position (1) Stopper position (4) Center type stopper Stopper position (1) Stopper position (3) Stopper position (4) Stopper position (2) Stopper position (3) Stopper position (2) Stopper position (2) Stopper position (3) With dowel hole Switch Page S1 S2 S3 **S4** S5 S6 M1 M2 M3 M4 M5 M6 Α1 Α2 А3 **A4** Α5 A6 Ε Note 1 \bigcirc \bigcirc

Note 1: Center type stopper is a custom order product. Consult with CKD for details.

Stopper position





Linear slide cylinder double acting / single rod type

LCX Series

● Bore size: ø25/ø32

JIS symbol





Specifications

Descriptions	S	LCX							
Bore size	mm	ø25	ø32						
Actuation		Double	Double acting						
Working fluid		Compre	essed air						
Max. working pressure	MPa	0.	0.7						
Min. working pressure	MPa	0.	0.15						
Withstanding pressure	Мра	1.1	1.05						
Ambient temperature	°C	-10 to 60 (not fre	eezing) (Note 1)						
Port size		M	15						
Stroke tolerance	mm	+2.0 0	(Note 2)						
Working piston speed	mm/s	20 to 500	20 to 500 (Note 3)						
Cushion		Rubber c	Rubber cushioned						
Lubrication		Not available							
Allowable energy absorp	otion J	Refer to table	3 on Page 46.						

Note 1: Please consult us if you use the instrument in an environment of constantly low (5°C or less) or high (40°C or over) temperature.

Stroke length

Bore size (mm)	Standard stroke length (mm)
ø25	10, 20, 30, 40, 50
ø32	10, 20, 30, 40, 50

Note: Stroke length other than above is not available.

Note 2: When not using a stopper, a slight gap may exist between the end plate and floating bushing.

Note 3: Use the metal stopper between 20 and 200 mm/s.



Switch specifications

• 1/2 color indicator

* The T0/T5 switch can be used with 220 VAC. Contact CKD for working conditions.

Docorintions		Reed	2 wire		Proximi	ty 2 wire	Proximity 3 wire		
Descriptions	T0H	T0V	T5H	/T5V	T2H/T2V	T2WH/T2WV	T3H/T3V	T3WH/T3WV	
Applications	Programmab	ole controller,	Programmable c	Programmable controller, relay, IC		Due average able controller		Programmable controller,	
Applications	relay		circuit (w/o light), serial connection		Programmable controller		relay		
Output method	-	-	-		-		NPN output		
Power voltage	-	-	-		-		10 to 28 VDC		
Load voltage	12/24 VDC	110 VAC	5/12/24 VDC	110 VAC	10 to 30 VDC	to 30 VDC 24 VDC ± 10%		30 VDC or less	
Load current	5 to 50 mA	7 to 20 mA	50 mA or less	20 mA or less	5 to 2	20 mA	100 mA or less	50 mA or less	
	LED (ON lighting)			·		Red/green	LED	Red/green	
Light			Without indicator light		(ON lighting)	LED		LED	
					(ON lighting)	(ON lighting)	(ON lighting)	(ON lighting)	
Leakage current		0	mA	·	1 mA or less		10 μA or less		

Cylinder weight

● Basic type (Unit: g)

Bore size	Basic type stroke length (mm)								
(mm)	10	20	30	40	50				
ø25	980	1,010	1,030	1,150	1,170				
ø32	1,000	1,030	1,050	1,180	1,200				

Addtional weight for options

(Unit: g)

Bore size		Option stopper symbol							
(mm)	S1 to S4	M1 to M4	A1 to A4	S5/S6	M5/M6	A5/A6			
ø25		170		240					
ø32]	170							

Secondary battery specifications

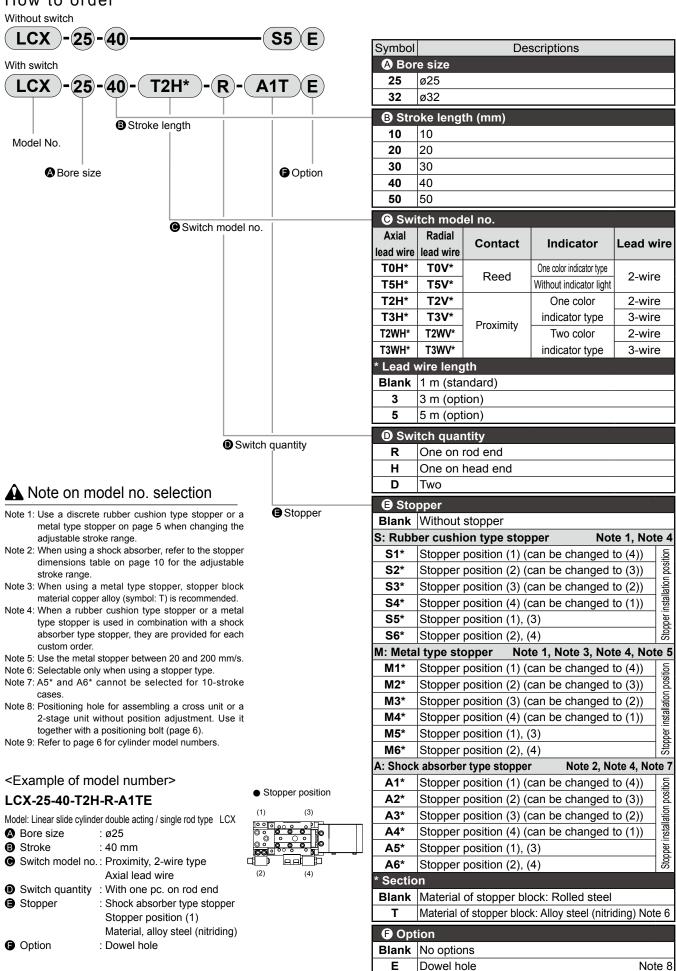
LCX - ••• - P4*

Design applicable for LiB manufacturing process

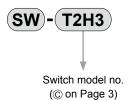
^{*} Consult with CKD for details.

LCX Series

How to order

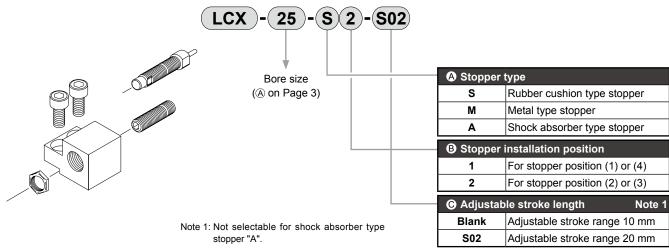






How to order stopper set

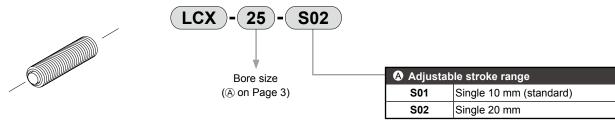
- A set of a stopper section and a rubber cushion stopper, a metal type stopper, or a shock absorber stoppers
- Used when changing from the standard to a rubber cushion stopper, a metal type stopper, or a shock absorber stopper





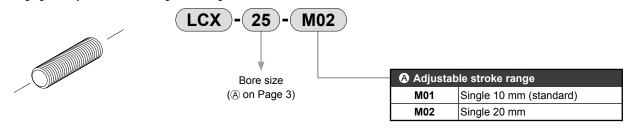
How to order rubber cushion type stopper

- Hexagon socket head set screw with urethane rubber
- Use for changing the adjustable stroke range or setting to the middle stroke



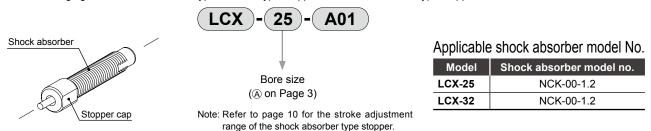
How to order discrete metal type stopper

• Use for changing the adjustable stroke range or setting to the middle stroke



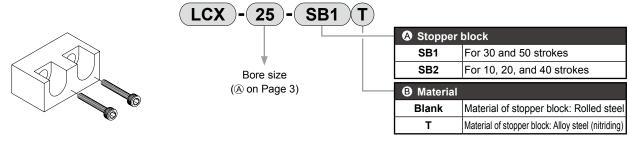
How to order the discrete shock absorber stopper

- A set of a shock absorber and a stopper cap
- Used when changing from a rubber cushion type or metal type stopper to a shock absorber type stopper



How to order stopper block discrete part

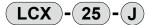
• Used when changing from the standard to a rubber cushion type stopper, a metal type stopper, or a shock absorber stopper





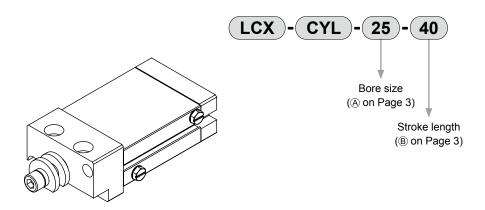
How to order the positioning bolt

- Hexagon socket head cap bolt with positioning mechanism
- Cross units and 2-stage units can be assembled without position adjustment.





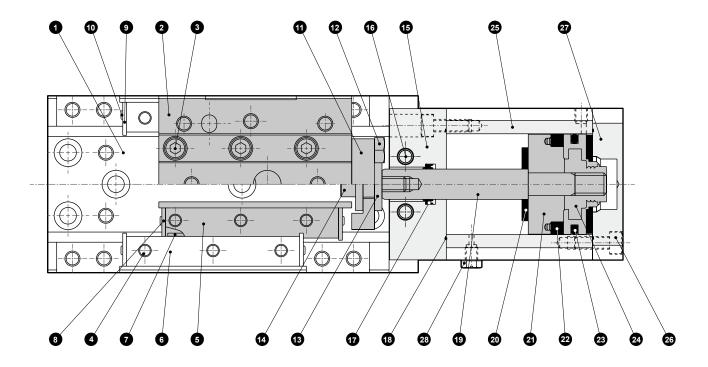
How to order cylinder





Internal structure and parts list

• LCX



Parts list

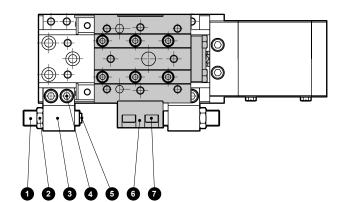
No.	Parts name	Material	Remarks	No.	Parts name	Material	Remarks
1	Base	Aluminum alloy	Alumite	15	Rod cover	Aluminum alloy	Alumite
2	Table	Aluminum alloy	Alumite	16	Hexagon socket head cap bolt	Alloy steel	Zinc chromate
3	Hexagon socket head cap bolt	Stainless steel		17	Nod packing seal	Nitrile rubber	
4	Hexagon socket head cap bolt	Stainless steel		18	Gasket	Nitrile rubber	
5	Guide rail (1)	Alloy steel	Black chrome film	19	Piston rod	Alloy steel	Industrial chrome plated
6	Guide rail (2)	Alloy steel	Black chrome film	20	Cushion rubber	Urethane rubber	
7	Cage	Resin		21	Spacer	Aluminum alloy	
8	Stopper (1)	Stainless steel		22	Magnet	Plastic	
9	Stopper (2)	Stainless steel		23	Piston packing seal	Nitrile rubber	
10	Cross headed pan	Stainless steel		24	Piston	Aluminum alloy + polyacetal	
11	Plate	Aluminum alloy	Alumite	25	Cylinder body	Aluminum alloy	Hard alumite
12	Hexagon head bolt	Stainless steel		26	Hexagon socket head cap bolt	Alloy steel	Zinc chromate
13	Floating bush	Stainless steel		27	Head cover	Aluminum alloy	Alumite
14	Hexagon socket head cap bolt	Alloy steel	Zinc chromate	28	Plug	Brass	Nickeling

Repair parts list

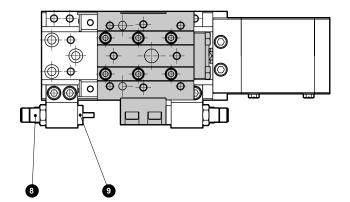
Bore size (mm)	Kit no.	Repair parts number
ø25	LCX-25K	17 (B
ø32	LCX-32K	2023

Internal structure and parts list

Configuration with stopper • Rubber cushion type stopper, metal type stopper



Shock absorber type stopper

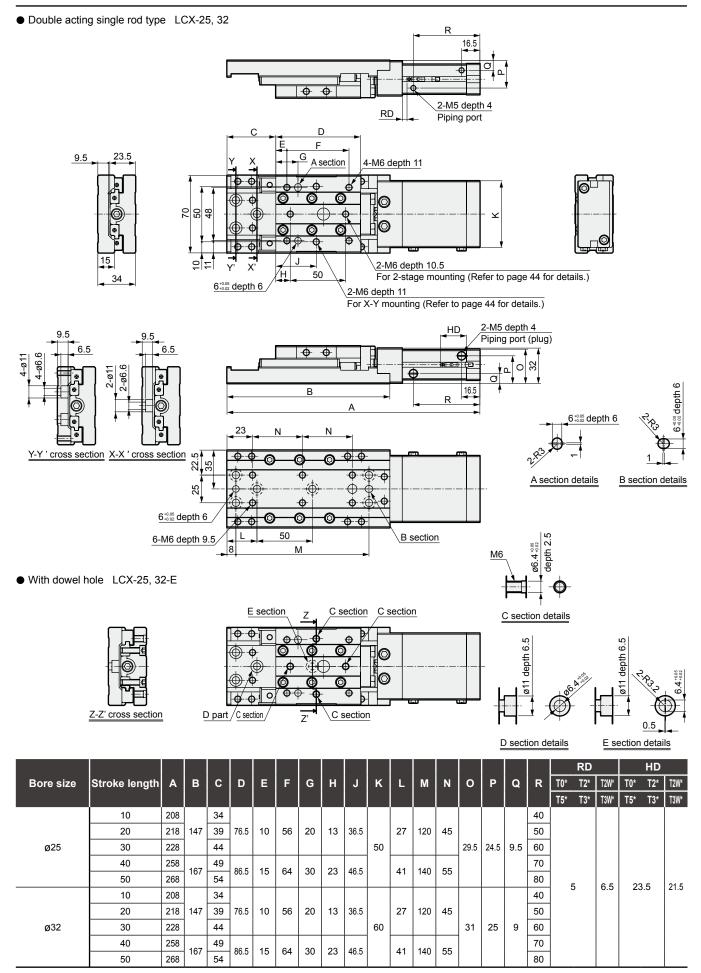


Parts list

No.	Parts name	Material	Remarks	No.	Parts name	Material	Remarks
1	Stopper bolt	Alloy steel	Nickeling		Stopper block (Stopper block symbol: blank)	Steel	Nickeling
2	Hexagon nut	Alloy steel	Zinc chromate				
3	Stopper	Aluminum alloy	Alumite	6	Stopper block (stopper block symbol: T)	Alloy steel	Nitriding
4	Hexagon socket head cap bolt	Alloy steel	Zinc chromate				
5	Cushion rubber	Urethane rubber	Only rubber cushion type stopper	7	Hexagon socket head cap bolt	Alloy steel	Zinc chromate
				8	Shock absorber		
				9	Stop cap	Stainless steel	

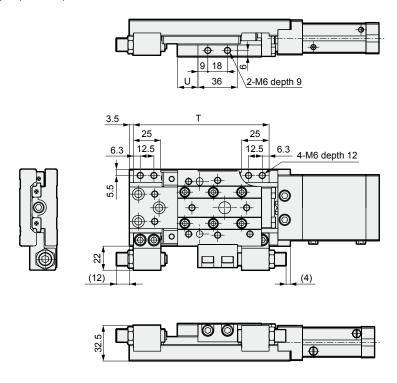
LCX Series

Dimensions

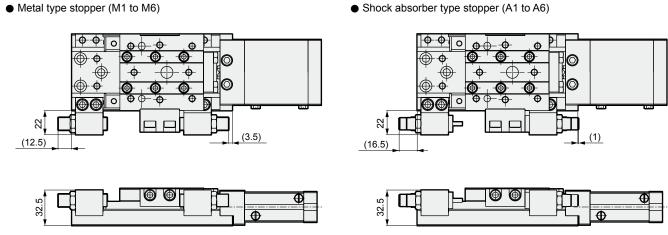


Dimensions: option

Rubber cushion type stopper (S1 to S6)



Metal type stopper (M1 to M6)



Note: If the adjustable stroke range is changed by the rubber cushion type stopper (S1 to S6) or metal type stopper (M1 to M6), the value within () will be changed accordingly.

Bore size	Stroke length	т	U	Adjustable stroke range (single)				
Dore Size	Stroke length	'	U	Rubber cushion type stopper	Metal type stopper	Shock absorber type stopper		
	10		18.5	5	5	1		
	20	124		10	10	7		
ø25	30							
	40	144	28.5					
	50	144						
	10		18.5	5	5	1		
	20	124			10			
ø32	30			10		7		
	40	144	28.5	10		'		
	50	174	20.5					