Contact our sales office for delivery dates and prices as this is a special model.

Specialized Product P.G. Point to Group information

Electric Actuator: Guide Rod Type

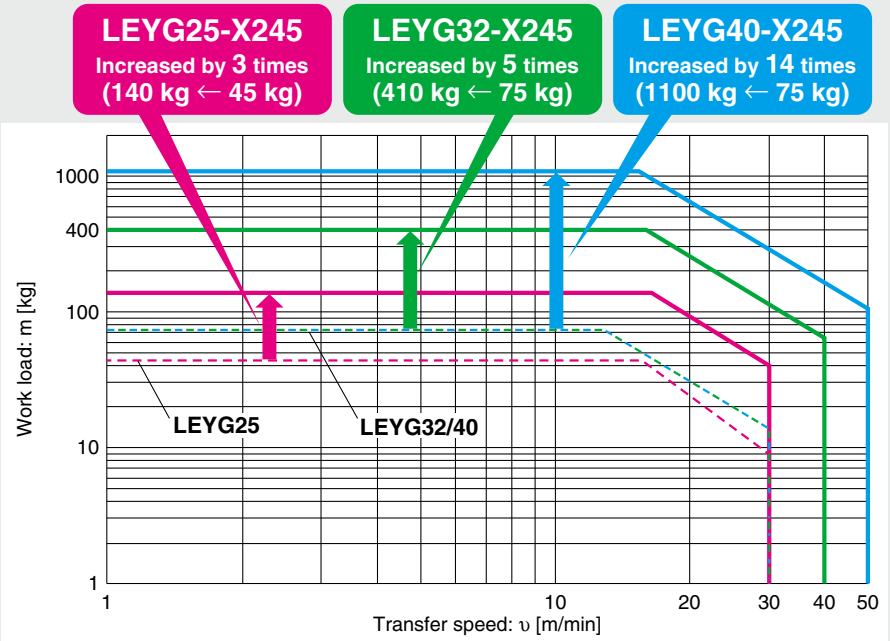
LEYG-X245

Size: 25, 32, 40
Stroke: 30, 50 mm*1

*1 Applicable stroke range: 50 mm or less

Features

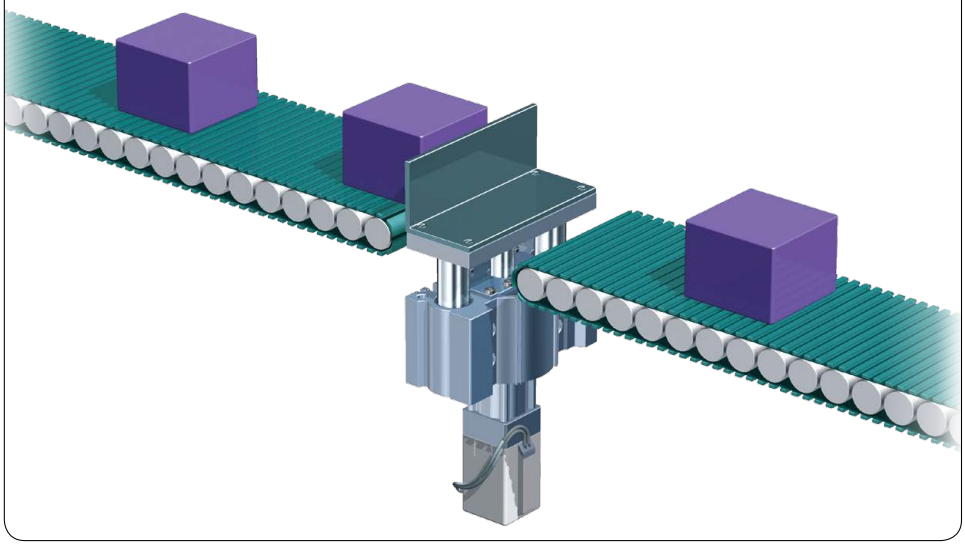
- **Uses a compact guide cylinder (MGPM series) unit**
- **Improved performance as a stopper**



Operating range when used as a stopper

Application Examples

Best suited for applications where transferred objects are heavy and the transfer speed is fast.



⚠ Caution To ensure the safest possible operation of this product, please be sure to thoroughly read the **"Safety Instructions"** in our "Best Pneumatics" catalog before use.

SMC Corporation 4-14-1, SOTO-KANDA, CHIYODA-KU, TOKYO 101-0021, JAPAN **URL: http://www.smcworld.com**

SP172X-016E
P: WQ

How to Order

LEYG 32 MDC – 30 C – S1 ☐ – X245

❶ ❷ ❸ ❹ ❺

❶ Size

25
32
40

❷ Stroke

30	30 mm
50	50 mm

❸ Motor option

C	With motor cover
W	With lock/motor cover

❹ Actuator cable type/length

Nil	Without cable
S1	Standard cable 1.5 m
S3	Standard cable 3 m
S5	Standard cable 5 m
R1	Robotic cable (Flexible cable) 1.5 m
R3	Robotic cable (Flexible cable) 3 m
R5	Robotic cable (Flexible cable) 5 m
R8	Robotic cable (Flexible cable) 8 m*1
RA	Robotic cable (Flexible cable) 10 m*1
RB	Robotic cable (Flexible cable) 15 m*1
RC	Robotic cable (Flexible cable) 20 m*1

*1 Produced upon receipt of order (Robotic cable only)
*2 The standard cable should only be used on fixed parts. For use on moving parts, select the robotic cable.

❺ Controller/Driver type*1

Nil	Without controller/driver	
6N	**LECP6** (Step data input type)	NPN
6P		PNP
1N	**LECP1** (Programless type)	NPN
1P		PNP
MJ	**LECPMJ***2 (CC-Link direct input type)	—
AN	**LECPA***3 (Pulse input type)	NPN
AP		PNP

*1 For details on controllers/drivers and compatible motors, refer to the **Web Catalog**.
*2 Not applicable to CE
*3 When pulse signals are open collector, order the current limiting resistor (LEC-PA-R-☐) separately. (Refer to the **Web Catalog**.)

Specifications

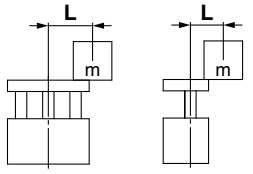
Model					LEYG25MDC-X245	LEYG32MDC-X245	LEYG40MDC-X245
Actuator specifications	Stroke [mm]				30, 50		
	Work load [kg]*1	Horizontal	LECP6 LECP1 LECPMJ	(3000 [mm/s²])	60	60	80
				(2000 [mm/s²])	70	80	90
			LECPA	(3000 [mm/s²])	30	40	60
				(2000 [mm/s²])	50	60	—
		Vertical*2		(3000 [mm/s²])	30	43	53
	Pushing force [N]				232 to 452	296 to 707	562 to 1058
	Speed [mm/s]	LECP6/LECP1/LECPMJ			5 to 125	6 to 150	6 to 175
		LECPA			5 to 125	6 to 125	6 to 75
	Max. acceleration/deceleration [mm/s²]				3000		
	Pushing speed [mm/s]				35 or less	30 or less	30 or less
	Positioning repeatability [mm]				±0.02		
	Lost motion [mm]				0.15 or less		
	Screw lead [mm]				3	4	4
	Impact/Vibration resistance [m/s²]				50/20		
	Actuation type				Ball screw		
	Guide type				Sliding bearing		
	Operating temperature range [°C]				5 to 40		
	Operating humidity range [%RH]				90 or less (No condensation)		
Electric specifications	Motor size				☐42	☐56.4	☐56.4
	Motor type				Step motor (Servo/24 VDC)		
	Encoder				Incremental A/B phase (800 pulse/rotation)		
	Rated voltage [V]				DC24 ±10%		
	Power consumption [W]				40	50	50
	Standby power consumption when operating [W]				15	48	48
	Max. instantaneous power consumption [W]				48	104	106
Lock unit specifications	Type				Non-magnetizing lock		
	Holding force [N]				294	421	519
	Power consumption [W]				5		
	Rated voltage [V]				DC24 ±10%		
International standards					CE marking		

*1 The maximum value of the work load when the acceleration/deceleration in brackets ( ) is applied
*2 The guide weight is not considered in the vertical work load.
Add [Guide weight] to the vertical work load, and then refer to the "Speed – Vertical Work Load Graph" of the LEY series in the **Web Catalog**.
*3 For other precautions, refer to the LEY series in the **Web Catalog**.

Weight of Guide Drive

Stroke \ Size	Weight [kg]		
	25	**35**	**40**
30	0.9	1.6	3.1
50	1	1.8	3.3

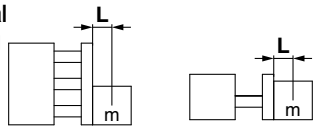
Vertical mounting



Size	Eccentric distance: L [mm]	10	50	100	200
25	Load mass [kg]	30	30	21.9	10.9
32		43	43	36	18
40		53	53	49.2	25

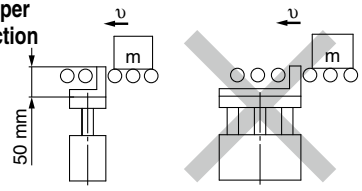
* For the load mass, subtract the guide weight according to the stroke.

Horizontal mounting



Size	Stroke [mm]	Load mass [kg]	
		30	50
25	L = 50 mm	12.7	11.1
	L = 100 mm	9.5	8.5
32	L = 50 mm	19.1	16.7
	L = 100 mm	14.4	12.9
40	L = 50 mm	22.5	19.9
	L = 100 mm	17.2	15.5

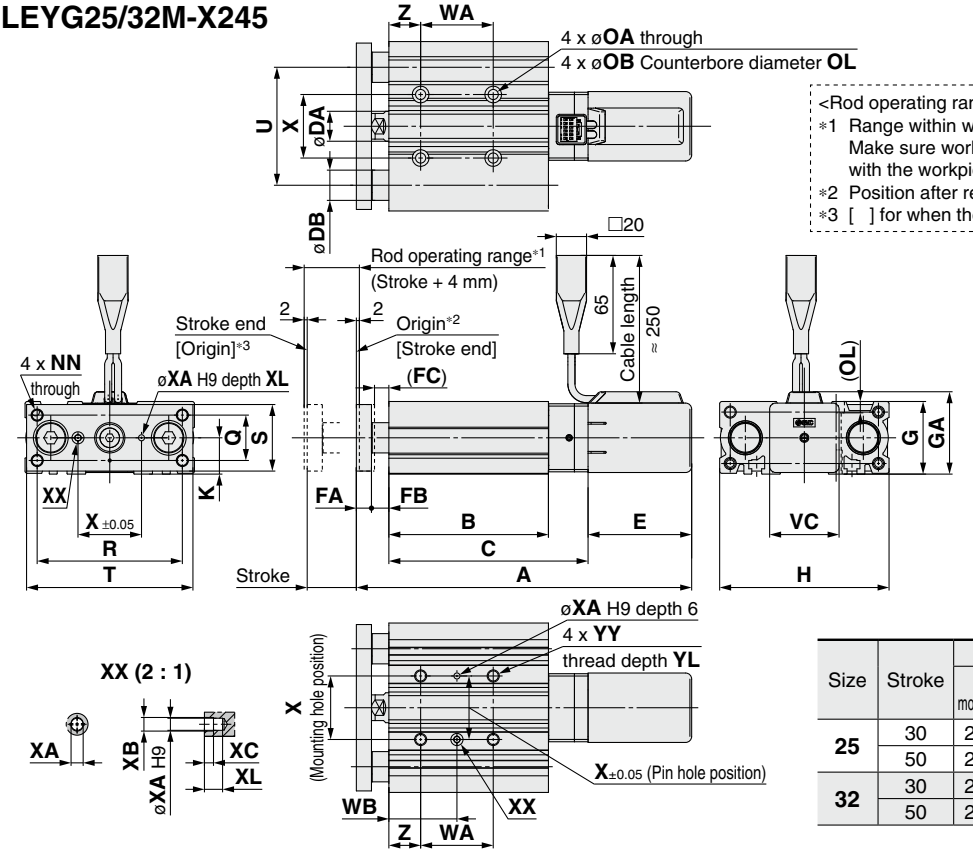
Stopper direction



Can be used **Cannot be used**

Dimensions

LEYG25/32M-X245



<Rod operating range>
*1 Range within which the rod can move when it returns to origin
Make sure workpieces mounted on the rod do not interfere with the workpieces and facilities around the rod.
*2 Position after return to origin
*3 [ ] for when the direction of return to origin has changed

Size	DA	DB	FA	FB	FC	G	GA	H
25	20	20	10	11.5	9.5	48	54.45	112
32	25	25	12	15.5	13.5	64	69.45	148

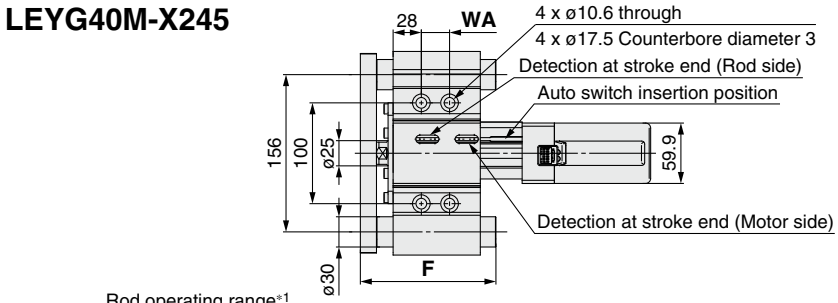
Size	K	NN	OA	OB	OL	Q	R
25	24	M8 x 1.25	6.7	11	7.5	30	96
32	32	M10 x 1.5	8.6	14	9	40	130

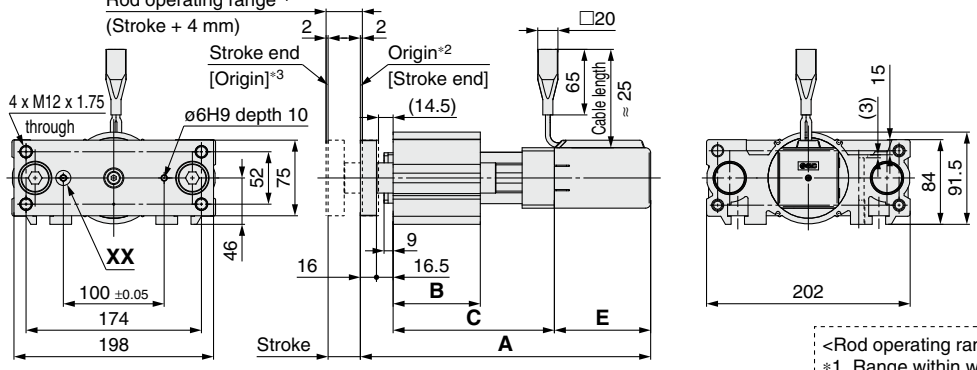
Size	S	T	U	VC	WA	WB	X
25	44	110	78	45.9	48	45	42
32	60	146	110	59.9	48	48	66

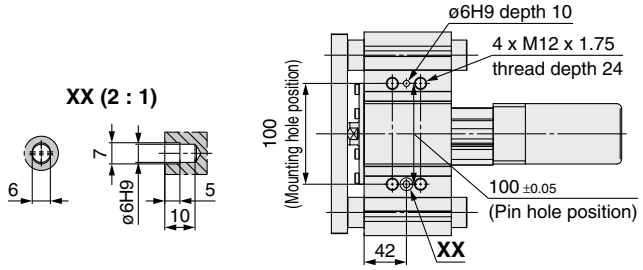
Size	XA	XB	XC	XL	YY	YL	Z
25	4	4.5	3	6	M8 x 1.25	16	21
32	5	6	4	8	M10 x 1.5	20	24

Size	Stroke	A		B	C	E	
		With motor cover	With lock/ motor cover			With motor cover	With lock/ motor cover
25	30	221.7	262.2	105.5	131.7	68.5	109
	50	241.7	282.2	125.5	151.7		
32	30	243.2	286.2	110	139.2	73.5	116.5
	50	263.2	306.2	130	159.2		

LEYG40M-X245





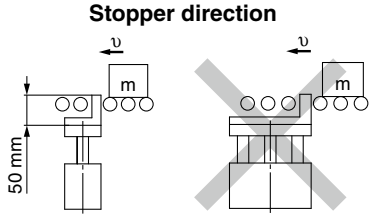


<Rod operating range>
*1 Range within which the rod can move when it returns to origin
Make sure workpieces mounted on the rod do not interfere with the workpieces and facilities around the rod.
*2 Position after return to origin
*3 [ ] for when the direction of return to origin has changed

Size	Stroke	A		B	C	WA	E		F
		With motor cover	With lock/ motor cover				With motor cover	With lock/ motor cover	
40	30	288	331	86.5	160	28	95.5	138.5	134.5
	50	308	351	106.5	180	52			154.5

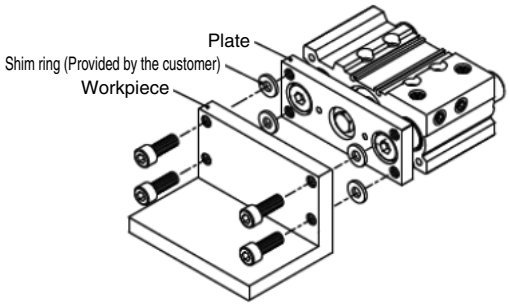
⚠ Caution

1. **Workpiece collision in series with the guide cannot be permitted.**



2. **The manufacturable stroke range is 30 to 300 mm. Please contact SMC for strokes other than 30 and 50. When using as a stopper, select a model with a stroke of 50 mm or less.**

3. **Make sure that the cylinder mounting surface has a flatness of 0.02 mm or less.**
   If the flatness of the workpieces and brackets mounted on the plate are not appropriate, sliding resistance may increase. If it is difficult to maintain a flatness of 0.02 mm or less, put a thin shim ring (provided by the customer) between the plate and the workpiece mounting surface to prevent the sliding resistance from increasing.



4. **Do not scratch or gouge the sliding portion of the piston rod and the guide rod.**
   Doing so may cause a malfunction.

5. **Do not dent or scratch the mounting surface of the body and the plate.**
   This may cause a decrease in the flatness of the mounting surface, which will cause an increase in sliding resistance.

6. **Do not operate the actuator in a state where lateral loads are applied.**
   The actuator may not operate due to the friction force generated between the conveyor and the transferred object.

Regarding this product, unless otherwise noted along with a separate contract or agreement within the Product Specifications, the safety instructions specified in the catalog are applied.
Please contact your local SMC Sales office for further details.