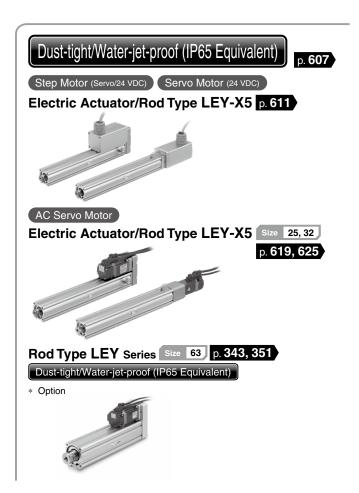
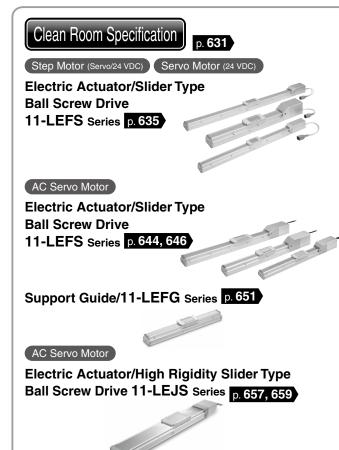
Environment

Dust-tight/Water-jet-proof (IP65 Equivalent) | Clean Room Specification | Secondary Battery Compatible









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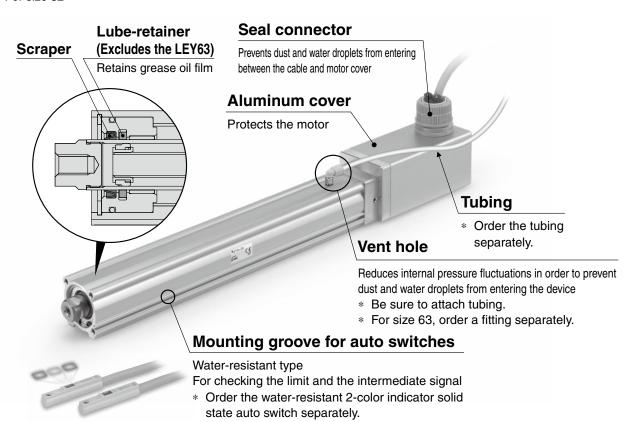
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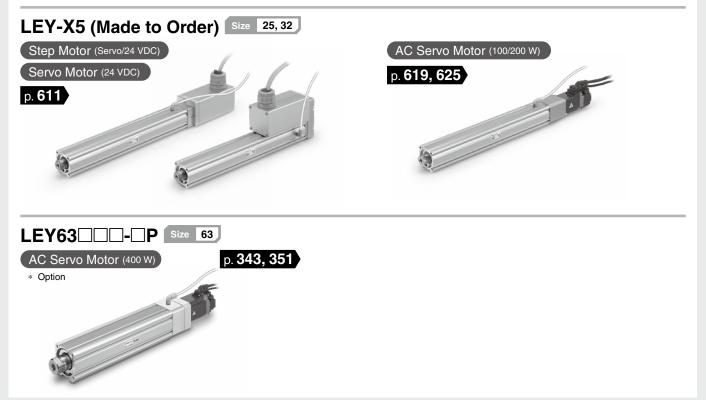
Environment Dust-tight/Water-jet-proof (IP65 Equivalent)

● Enclosure: IP65 equivalent*1 ● Max. stroke: 500 mm*2



*1 IP65 enclosure: The protection structure against solid foreign objects is dust-tight type and the protection structure against water is water-jet-proof type. Dust-tight means that no dust can enter the inside of the equipment.

Water-jet-proof means that the product is not adversely affected by direct water jets from any direction. That is, even when direct water jets are applied to the product for 3 minutes by means of the pre-determined method, there is no water entry that hinders the correct operation inside the equipment. Be sure to take appropriate protective measures if the product is to be used in an environment where it will be constantly exposed to water or fluids other than water splash. In particular, the product cannot be used in environments where oils, such as cutting oil or cutting fluid, are present.



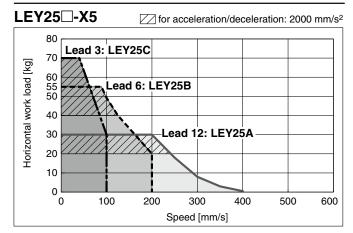
Model Selection

LEY-X5 Series ▶p. 611

Speed-Work Load Graph (Guide) for Step Motor (Servo/24 VDC) JXC□1, LECP1

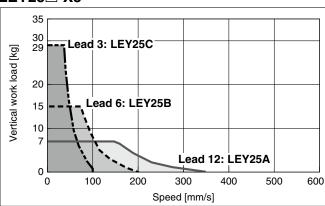
Refer to page 609 for the LECPA, JXC□3, and LECA6.

Horizontal

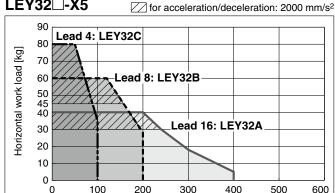


Vertical

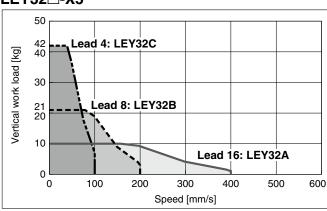






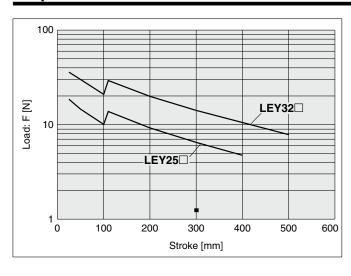


LEY32□-X5

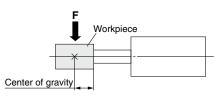


Graph of Allowable Lateral Load on the Rod End (Guide)

Speed [mm/s]

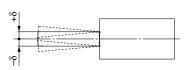


[Stroke] = [Product stroke] + [Distance from the rod end to the center of gravity of the workpiece]



Rod Displacement: δ [mm]

Stroke Size	30	50	100	150	200	250	300	350	400	450	500
25	±0.3	±0.4	±0.7	±0.7	±0.9	±1.1	±1.3	±1.5	±1.7	_	_
32	±0.3	±0.4	±0.7	±0.6	±0.8	±1.0	±1.1	±1.3	±1.5	±1.7	±1.8



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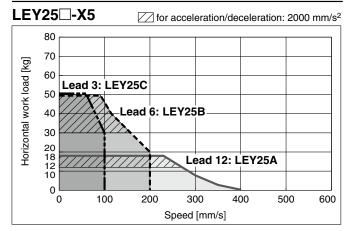
C Motorless | LECY□ | LECS□ |

Step Motor (Servo/24 VDC) Servo Motor (24 VDC) Dust-tight/Water-jet-proof (IP65 Equivalent)

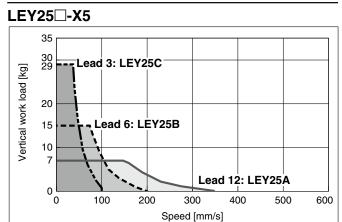
Speed-Work Load Graph (Guide) For Step Motor (Servo/24 VDC) LECPA, JXC□²₃

Refer to page 608 for the JXC□1, LECP1 and below for the LECA6.

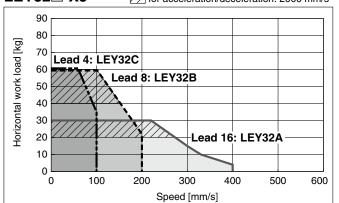
Horizontal



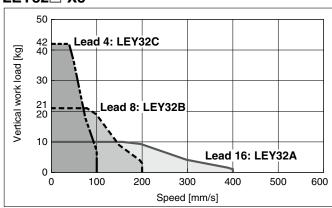
Vertical



LEY32□-X5 for acceleration/deceleration: 2000 mm/s²

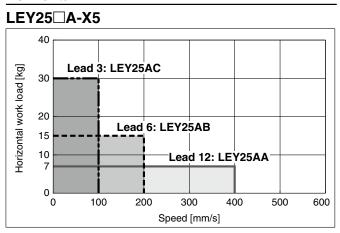


LEY32□-X5

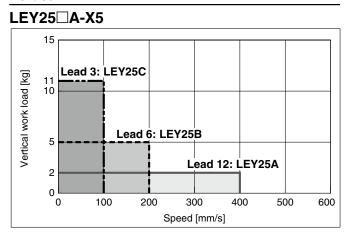


For Servo Motor (24 VDC) LECA6

Horizontal



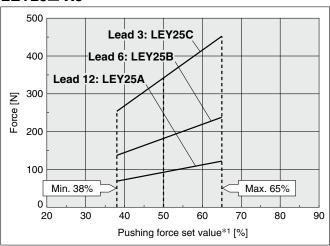
Vertical



Force Conversion Graph

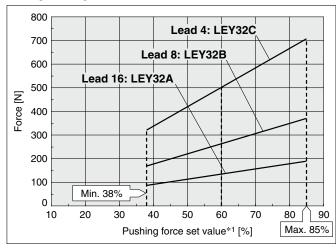
Step Motor (Servo/24 VDC)

LEY25□-X5



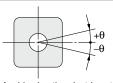
Ambient temperature	Pushing force set value*1 [%]	Duty ratio [%]	Continuous pushing time [min]
40°C or less	65 or less	100	_

LEY32□-X5



Ambient temperature	Pushing force set value*1 [%]	Duty ratio [%]	Continuous pushing time [min]
25°C or less	85 or less	100	_
40°C	65 or less	100	_
40 C	85	50	15

Non-rotating Accuracy of Rod



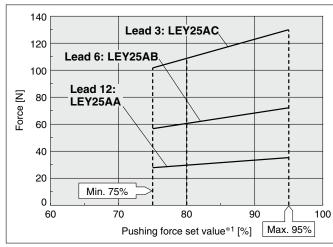
Size	Non-rotating accuracy θ
25	±0.8°
32	±0.7°

Avoid using the electric actuator in such a way that rotational torque would be applied to the piston rod.

Failure to do so may result in the deformation of the non-rotating guide, abnormal auto switch responses, play in the internal guide, or an increase in the sliding resistance.

Servo Motor (24 VDC)

LEY25□A-X5



Ambient temperature	Pushing force set value*1 [%]	Duty ratio [%]	Continuous pushing time [min]
40°C or less	95 or less	100	_

<Limit Values for Pushing Force and Trigger Level in Relation to Pushing Speed> Without Load

Model	Lead	Pushing speed [mm/s]	Pushing force (Setting input value)	Model	Lead	Pushing speed [mm/s]	Pushing force (Setting input value)
LEY25			50 to 65%		A/B/C	21 to 35	80 to 95%
I EV22	Α	24 to 30	60 to 85%				
LE 132	B/C	24 to 30 21 to 30	00 10 65%				

There is a limit to the pushing force in relation to the pushing speed. If the product is operated outside of the range (low pushing force), the completion signal [INP] may be output before the pushing operation has been completed (during the moving operation).

If operating with the pushing speed below the min. speed, please check for operating problems before using the product.

<Set Values for Vertical Upward Transfer Pushing Operations>

For vertical loads (upward), set the pushing force to the max. value shown below and operate at the work load or less.

Model	LE	EY25		LE	EY32		LE	Y25	⊒A
Lead	Α	В	С	Α	В	С	Α	В	С
Work load [kg]	2.5	5	10	4.5	9	18	1.2	2.5	5
Pushing force		65%			85%			95%	

*1 Set values for the controller

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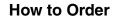
Electric Actuator Rod Type Dust-tight/Water-jet-proof (IP65 Equivalent)

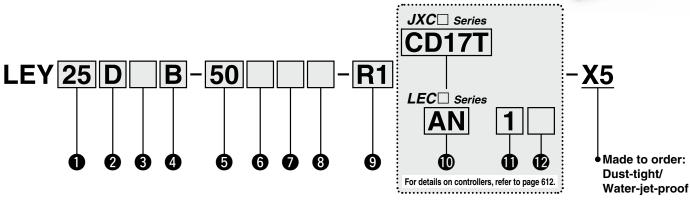
Click here for details

LEY-X5 (Made to Order) Series LEY25, 32

RoHS

Refer to page 608 for model selection.





Size 25

2 Mot	or mounting position
Nil	Top side parallel

In-line

3 Motor type

Cumbal	Tuno	Si	Compatible	
Symbol	Type	25	32	controllers/drivers
Nil	Step motor (Servo/24 VDC)	•	•	JXCE1 JXC91 JXCP1 JXCD1 JXCL1 JXCL1 JXCM1 JXC51 JXC61
A	Servo motor (24 VDC)	•	_	LECA6

4 Lead [mm]

Symbol	LEY25	LEY32
Α	12	16
В	6	8
С	3	4

5 Stroke [mm]

30	30
to	to
500	500

For details, refer to the applicable stroke table below.

6 Motor option*2

Nil	Without option
В	With lock



Rod end thread

Nil	Rod end female thread
М	Rod end male thread (1 rod end nut is included.)

8 Mounting*3

Cumbal	Type	Motor mounting position			
Symbol	Туре	Parallel	In-line		
Nil	Ends tapped/Body bottom tapped*4	•	•		
L	Foot	•	_		
F	Rod flange*4	● *5	•		
G	Head flange*4	●*6	_		

Actuator cable type/length

Robotic	cable		[m]
R1	1.5	RA	10* ⁷
R3	3	RB	15* ⁷
R5	5	RC	20*7
R8	8*7		

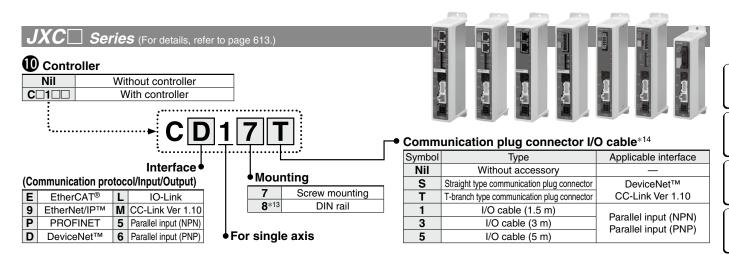
Applicable Stroke Table*1

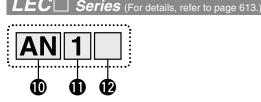
●:	St	dar
	-	

Stroke [mm]	30	50	100	150	200	250	300	350	400	450	500	Manufacturable stroke range
LEY25	•	•	•	•	•	•	•	•	•	_	_	15 to 400
LEY32	•	•	•	•	•	•	•	•	•	•	•	20 to 500

^{*} For auto switches, refer to page 630.

^{* &}quot;-X5" is not added to an actuator model with a controller/driver part number suffix. Example) "LEY25DB-100" for the LEY25DB-100BM-R1CD17T-X5





Controller/Driver type*8

Nil	Without controller/driver							
6N	LECA6	NPN						
6P	(Step data input type)	PNP						
1N	LECP1*9	NPN						
1P	(Programless type)	PNP						
AN	LECPA*9 *10	NPN						
AP	(Pulse input type)	PNP						

I/O cable length*11

Nil	Without cable						
1	1.5 m						
3	3 m*12						
5	5 m*12						



12 Controller/Driver mounting

Nil	Screw mounting
D	DIN rail*13

- *1 Please consult with SMC for non-standard strokes as they are produced as special orders.
- *2 When "With lock" is selected for the top side parallel motor type, the motor body will stick out from the end of the body for strokes of 50 mm or less. Check for interference with workpieces before selecting a model.
- *3 The mounting bracket is shipped together with the product but does not come assembled.
- *4 For the horizontal cantilever mounting of the rod flange, head flange, or ends tapped types, use the actuator within the following stroke range.
- ·LEY25: 200 mm or less · LEY32: 100 mm or less *5 The rod flange type is not available for the LEY25/32 with strokes of 50 mm or less and motor option "With lock."
- *6 The head flange type is not available for the LEY32.
- *7 Produced upon receipt of order (Robotic cable only)
- *8 For details on controllers/drivers and compatible motors, refer to the compatible controllers/drivers on the next page.

- *9 Only available for the motor type "Step motor"
- *10 When pulse signals are open collector, order the current limiting resistor (LEC-PA-R-□) on page 736 separately.
- When "Without controller/driver" is selected for controller/driver types, I/O cable cannot be selected. Refer to page 713 (For LECA6), page 724 (For LECP1), or page 736 (For LECPA) if I/O cable is required.
- *12 When "Pulse input type" is selected for controller/driver types, pulse input usable only with differential. Only 1.5 m cables usable with open collector
- *13 The DIN rail is not included. It must be ordered separately.
- *14 Select "Nil" for anything other than DeviceNet™, CC-Link, or parallel input.

Select "Nil," "S," or "T" for DeviceNet™ or CC-Link. Select "Nil," "1," "3," or "5" for parallel input.

⚠ Caution

[CE-compliant products]

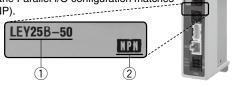
- 1) EMC compliance was tested by combining the electric actuator LEY series and the controller LEC/JXC series.
 - The EMC depends on the configuration of the customer's control panel and the relationship with other electrical equipment and wiring. Therefore, compliance with the EMC directive cannot be certified for SMC components incorporated into the customer's equipment under actual operating conditions. As a result, it is necessary for the customer to verify compliance with the EMC directive for the machinery and equipment as a whole.
- 2 For the servo motor (24 VDC) specification, EMC compliance was tested by installing a noise filter set (LEC-NFA). Refer to page 713 for the noise filter set. Refer to the LECA series Operation Manual for installation.

The actuator and controller/driver are sold as a package.

Confirm that the combination of the controller/driver and actuator is correct.

<Check the following before use.>

- (1) Check the actuator label for the model number. This number should match that of the controller/driver.
- ② Check that the Parallel I/O configuration matches (NPN or PNP).



Refer to the Operation Manual for using the products. Please download it via our website: https://www.smcworld.com

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Compatible Controllers/Drivers

Туре	EtherCAT® direct input type	EtherNet/IP™ direct input type	PROFINET direct input type	DeviceNet™ direct input type	IO-Link direct input type	CC-Link direct input type				
Series	JXCE1	JXC91	JXCP1	JXCD1	JXCL1	JXCM1				
Features	EtherCAT® direct input	EtherNet/IP™ direct input	PROFINET direct input	DeviceNet™ direct input	IO-Link direct input	CC-Link direct input				
Compatible motor		Step motor (Servo/24 VDC)								
Max. number of step data			64 p	oints						
Power supply voltage			24 \	/DC						
Reference page			74	41						

	Step data input type	Step data input type	Programless type	Pulse input type	
Туре	GSIC 11	O SAC SE			
Series	JXC51 JXC61	LECA6	LECP1	LECPA	
Features	Parallel I/O	Value (Step data) input Standard controller	Capable of setting up operation (step data) without using a PC or teaching box	Operation by pulse signals	
Compatible motor	Step motor (Servo/24 VDC)			motor 24 VDC)	
Max. number of step data	64 p	oints	14 points	_	
Power supply voltage		24 \	/DC		
Reference page	706-1	707	719	731	

Specifications

Step Motor (Servo/24 VDC)

Model				LEY25□-X5		LEY32□-X5					
		For JXC⊡1	(3000 [mm/s ²])	20	40	60	30	45	60		
	Horizontal	LECP1	(2000 [mm/s ²])	30	60	70	40	60	80		
Work load [kg]*1	Horiz	For	(3000 [mm/s ²])	12	30	30	20	40	40		
8		LECPA JXC⊡3	(2000 [mm/s ²])	18	50	50	30	60	60		
Pushing fo Speed [mm Max. accele Pushing sp		ertical*14	(3000 [mm/s ²])	7	15	29	10	21	42		
Pushing fo				63 to 122	126 to 238	232 to 452	80 to 189	156 to 370	296 to 707		
Speed [mm				18 to 400	9 to 200	5 to 100	24 to 400	12 to 200	6 to 100		
Max. accele	Max. acceleration/deceleration [mm/s ²]			3000							
Pushing sp				35 or less			30 or less				
Positioning			mm]	±0.02							
Lost motio				0.1 or less							
Screw lead		<u>-</u>	F / 03*7	12	6	3	16	8	4		
Impact/Vib	ratio	n resistano	ce [m/s²]*'	50/20							
Actuation t	ype			Ball screw + Belt (LEY□) Ball screw (LEY□D)							
Guide type				Sliding bushing (Piston rod)							
Enclosure*	8			IP65 equivalent							
Operating t				5 to 40							
Operating I	numi	dity range	[%RH]			90 or less (No	condensation)				
Motor size					□42			□56.4			
Motor type				Step motor (Servo/24 VDC)							
Encoder					Incre	emental A/B phas		tion)			
Rated volta	<u> </u>				40	24 VD0	2 ±10%				
Power cons			when operating [W]*10		40			50			
			consumption [W]*11		15 48			48 104			
ш мах. mstan	lanec	ous power (consumption [w] · · ·		40	Non-magne	tizina lock	104			
= 0	ह्न । प्रमुख ह्न Holding force [N]			78	157	294	108	216	421		
	Power consumption [W]*13			78 157 294 108 216 421 5 5							
ខ្លុំ∰ Power cons	sumi	otion [W1*1	3		5			5			

*1 Horizontal: The maximum value of the work load. An external guide is necessary to support the load. (Friction coefficient of guide: 0.1 or less) The actual work load and transfer speed change according to the condition of the external guide. Also, speed changes according to the work load. Check the "Model Selection" on pages 608 and 609.

Vertical: Speed changes according to the work load. Check the "Model Selection" on pages 608 and 609.

The values shown in () are the acceleration/deceleration. Set these values to be 3000 [mm/s²] or less.

- *2 Pushing force accuracy is ±20% (F.S.).
- *3 The thrust setting values for LEY25□ is 38% to 65% and for LEY32□ is 38% to 85%. The pushing force values change according to the duty ratio and pushing speed. Check the "Model Selection" on page 610.
- *4 The speed and force may change depending on the cable length, load, and mounting conditions. Furthermore, if the cable length exceeds 5 m, then it will decrease by up to 10% for each 5 m. (At 15 m: Reduced by up to 20%)
- *5 The allowable speed for pushing operations. When push conveying a workpiece, operate at the vertical work load or less.
- *6 A reference value for correcting an error in reciprocal operation
- *7 Impact resistance: No malfunction occurred when the actuator was tested with a drop tester in both an axial direction and a perpendicular direction to the lead screw. (The test was performed with the actuator in the initial state.)

Vibration resistance: No malfunction occurred in a test ranging between 45 to 2000 Hz. The test was performed in both an axial direction and a perpendicular direction to the lead screw. (The test was performed with the actuator in the initial state.)

- *8 Cannot be used in an environment where oil such as cutting oil splashes or it is constantly exposed to water Take appropriate protective measures. For details on enclosure, refer to the "Enclosure" on page 415.
- *9 The power consumption (including the controller) is for when the actuator is operating.
- *10 The standby power consumption when operating (including the controller) is for when the actuator is stopped in the set position during the operation. Except during the pushing operation
- The maximum instantaneous power consumption (including the controller) is for when the actuator is operating. This value can be used for the *11 selection of the power supply.
- *12 With lock only
- *13 For an actuator with lock, add the power consumption for the lock.
- *14 When mounting vertically and using the product facing upwards in an environment where water is present, take necessary measures to prevent water from splashing on the rod cover, because water will accumulate on the rod seal due to the structure of the product.



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Step Motor (Servo/24 VDC) Servo Motor (24 VDC) Dust-tight/Water-jet-proof (IP65 Equivalent)

Specifications

Servo Motor (24 VDC)

		Model		LEY25□A-X5			
	Work load	Horizontal	(3000 [mm/s ²])	7	15	30	
	[kg]*1	Vertical*13	(3000 [mm/s ²])	2	5	11	
	Pushing ford	e [N]*2 *3		18 to 35	37 to 72	66 to 130	
	Speed [mm/s	s]		2 to 400	1 to 200	1 to 100	
S	Max. acceler	ation/decelera	ation [mm/s²]		3000		
를	Pushing spe	ed [mm/s]*4			35 or less		
lica	Positioning	repeatability [mm]		±0.02		
eci	Lost motion	[mm]* ⁵			0.1 or less		
gs	Screw lead [mm]		12	6	3	
ato l	Impact/Vibra	tion resistanc	e [m/s²]*6		50/20		
Actuator specifications	Actuation ty	ре		Ball screw + Belt (LEY□) Ball screw (LEY□D)			
	Guide type			Sliding bushing (Piston rod)			
	Enclosure*7			IP65 equivalent			
	Operating te	mperature rar	nge [°C]	5 to 40			
	Operating hu	umidity range	[%RH]	90 or less (No condensation)			
Suc	Motor size			□42			
Electric specifications	Motor type			Servo motor (24 VDC)			
ij	Encoder			Incremental A/B phase (800 pulse/rotation)/Z-phase			
bed	Rated voltag	je [V]		24 VDC ±10%			
ic s	Power consu	umption [W]*8		86			
St.	, , ,	· · · · · · · · · · · · · · · · · · ·	when operating [W]*9	4 (H	orizontal)/12 (Ver	tical)	
ă		neous power o	consumption [W]*10		96		
it	Type*11			No	on-magnetizing lo	ck	
Lock unit specifications	Holding forc			78 157 294			
Loci	Power consu	umption [W]*1	2	5			
_ g	Rated voltag	je [V]		24 VDC ±10%			

- *1 Horizontal: The maximum value of the work load. An external guide is necessary to support the load. (Friction coefficient of guide: 0.1 or less) The actual work load and transfer speed change according to the condition of the external guide. Vertical: Speed changes according to the work load. Check the "Model Selection" on page 609. The values shown in () are the acceleration/deceleration.
- Set these values to be 3000 [mm/s²] or less. *2 Pushing force accuracy is ±20% (F.S.).
- *3 The thrust setting values for LEY25A is 75% to 95%. The pushing force values change according to the duty ratio and pushing speed. Check the "Model Selection" on page 610.
- *4 The allowable speed for pushing operations When push conveying a workpiece, operate at the vertical work load or less.
- *5 A reference value for correcting an error in reciprocal operation
- *6 Impact resistance: No malfunction occurred when the actuator was tested with a drop tester in both an axial direction and a perpendicular direction to the lead screw. (The test was performed with the actuator in the initial state.)
- Vibration resistance: No malfunction occurred in a test ranging between 45 to 2000 Hz. The test was performed in both an axial direction and a perpendicular direction to the lead screw. (The test was performed with the actuator in the initial state.) *7 Cannot be used in an environment where oil such
- *7 Cannot be used in an environment where oil such as cutting oil splashes or it is constantly exposed to water
- Take appropriate protective measures. For details on enclosure, refer to the "Enclosure" on page 415.

 *8 The power consumption (including the controller)
- is for when the actuator is operating.

 *9 The standby power consumption when operating (including the controller) is for when the actuator is stopped in the set position during the operation with the maximum work load. Except during the
- pushing operation

 *10 The maximum instantaneous power consumption
 (including the controller) is for when the actuator
 is operating. This value can be used for the
 selection of the power supply.
- *11 With lock only
- *12 For an actuator with lock, add the power consumption for the lock.
- *13 When mounting vertically and using the product facing upwards in an environment where water is present, take necessary measures to prevent water from splashing on the rod cover, because water will accumulate on the rod seal due to the structure of the product.

Weight

Weight: Top Side Parallel Motor Type

					· / · ·																
	Model	LEY25-X5									LEY32-X5										
Stroke [n	nm]	30	50	100	150	200	250	300	350	400	30	50	100	150	200	250	300	350	400	450	500
Product	Step motor	1.45	1.52	1.69	1.95	2.13	2.30	2.48	2.65	2.83	2.48	2.59	2.88	3.35	3.64	3.91	4.21	4.49	4.76	5.04	5.32
weight [kg]	Servo motor	1.41	1.48	1.65	1.91	2.09	2.26	2.44	2.61	2.79	_	_	_	_	_	_	_	_	_	_	_

Weight: In-line Motor Type

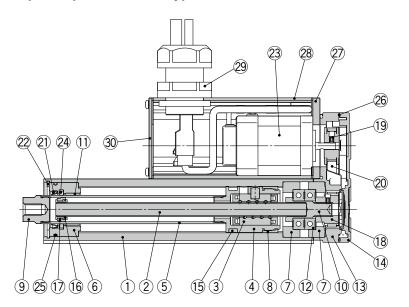
	Model		LEY25D-X5										LEY32D-X5								
Stroke [r	30	50	100	150	200	250	300	350	400	30	50	100	150	200	250	300	350	400	450	500	
Product	Step motor	1.46	1.53	1.70	1.96	2.14	2.31	2.49	2.66	2.84	2.49	2.60	2.89	3.36	3.65	3.92	4.22	4.50	4.77	5.05	5.33
weight [kg]	Servo motor	1.42	1.49	1.66	1.92	2.10	2.27	2.45	2.62	2.80	_	_	_	_	_	_	_	_	_	_	_

Additional Weight

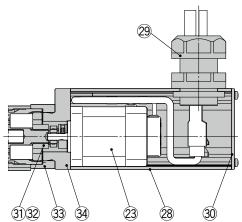
Additional Weight			[kg]					
Siz	e	25	32					
Lock		0.33	0.63					
Rod end male thread	0.03	0.03						
nou enu maie mreau	Nut Nut							
Foot bracket (2 sets inc	luding mounting bolt)	0.08	0.14					
Rod flange (including m	0.17	0.20						
Head flange (including	mounting bolt)	0.17	0.20					

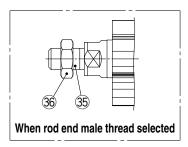
Construction

Top side parallel motor type: LEY₃₂²⁵



In-line motor type: LEY 35 D





Component Parts

0011	iponent i arto		
No.	Description	Material	Note
1	Body	Aluminum alloy	Anodized
2	Ball screw shaft	Alloy steel	
3	Ball screw nut	Synthetic resin/Alloy steel	
4	Piston	Aluminum alloy	
5	Piston rod	Stainless steel	Hard chrome plating
6	Rod cover	Aluminum alloy	
7	Bearing holder	Aluminum alloy	
8	Rotation stopper	Synthetic resin	
9	Socket	Free cutting carbon steel	Nickel plating
10	Connected shaft	Free cutting carbon steel	Nickel plating
11	Bushing	Bearing alloy	
12	Bearing	_	
13	Return box	Aluminum die-cast	Coating
14	Return plate	Aluminum die-cast	Coating
15	Magnet	_	
16	Wear ring holder	Stainless steel	Stroke 101 mm or more
17	Wear ring	Synthetic resin	Stroke 101 mm or more
18	Screw shaft pulley	Aluminum alloy	
19	Motor pulley	Aluminum alloy	
		•	

No.	Description	Material	Note
20	Belt	_	
21	Scraper	Synthetic resin	
22	Retaining ring	Steel for spring	Phosphate coating
23	Motor	_	
24	Lube-retainer	Felt	
25	O-ring	NBR	
26	Gasket	NBR	
27	Motor adapter	Aluminum alloy	Anodized
28	Motor cover	Aluminum alloy	Anodized
29	Seal connector	_	
30	End cover	Aluminum alloy	Anodized
31	Hub	Aluminum alloy	
32	Spider	NBR	
33	Motor block	Aluminum alloy	Anodized
34	Motor adapter	Aluminum alloy	LEY25 only
35	Socket (Male thread)	Free cutting carbon steel	Nickel plating
36	Nut	Alloy steel	Zinc chromating

Replacement Parts (Top side parallel only)/Belt

No.	Size	Order no.
20	25	LE-D-2-2
20	32	LE-D-2-3

Replacement Parts/Grease Pack

Applied portion	Order no.
Piston rod	GR-S-010 (10 g) GR-S-020 (20 g)

Apply grease on the piston rod periodically. Grease should be applied at 1 million cycles or 200 km, whichever comes first.

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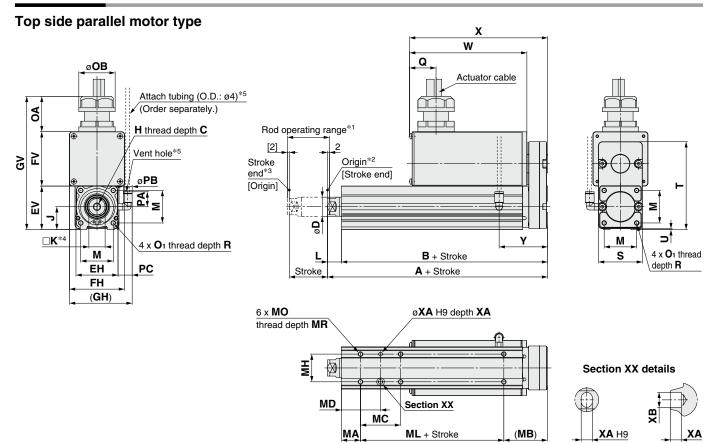
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LEY-X5

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																	[mm]
Size	Stroke range [mm]	A	В	С	D	EH	EV	FH	FV	GH	GV	Н	J	К	L	M	O ₁
25	15 to 100	130.5	116	13	20	44	45.5	57.6	56.8	66.2	139.5	M8 x 1.25	24	17	14.5	34	M5 x 0.8
25	101 to 400	155.5	141	13	20	44	45.5	37.0	30.6	00.2	139.5	IVIO X 1.23	24	17	14.5	34	IVIS X U.6
32	20 to 100	148.5	130	13 25	13 25 5	51	56.5	69.6	78.6	76.2	173.5	M8 x 1.25	31	22	18.5	40	M6 x 1.0
32	101 to 500	178.5	160	13		31	30.5	09.0	70.0	70.2	173.5	WO X 1.25	31	22	16.5	40	IVIO X 1.0

Size	Stroke	R	OA	ОВ	РА	РВ	_	-	т	- 11	PC	l v	V)	(V
Size	range [mm]	n	UA	ОВ	PA	PB	L G	3	•	0	FC	Without lock	With lock	Without lock	With lock	T
25	15 to 100	0	37	38	15.4	8.2	28	46	92	4	15.4	123	173	145	195	51
25	101 to 400	0	37	30	15.4	0.2	20	40	92	'	15.4	123	1/3	145	195	51
32	20 to 100	10	37	38	15.4	8.2	28	60	118	4	15.9	123	173	150	200	61
32	101 to 500	10	37	30	15.4	0.2	20	60	110	1	15.9	123	1/3	150	200	01

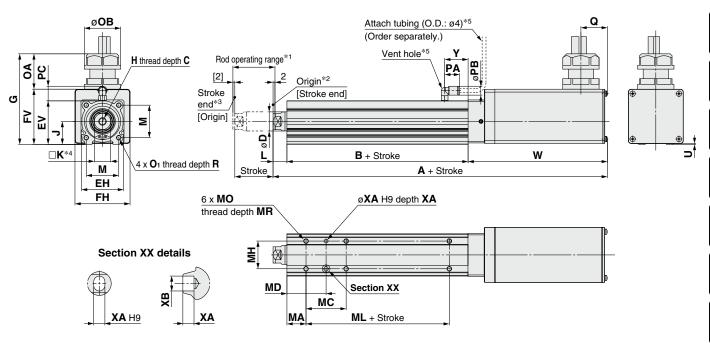
Body	Bottom T	apped									[mm]
Size	Stroke range [mm]	MA	МВ	МС	MD	МН	ML	МО	MR	XA	ХВ
	15 to 39			24	32		50				
	40 to 100		46	42	41		50				
25	101 to 124	20			41	29		M5 x 0.8	6.5	4	5
	125 to 200			59	49.5		75				
	201 to 400			76	58						
	20 to 39			22	36		50	M6 x 1			
	40 to 100			36	12	30	50				
32	101 to 124	25	55	36	43				8.5	5	6
	125 to 200			53	51.5		80				
	201 to 500			70	60						

- *1 This is the 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 returning to origin
- *3 [] for when the direction of return to origin has changed
- *4 The direction of rod end width across flats ($\square K$) differs depending on the products.
- *5 The vent hole is the port for releasing to atmosphere. Do not apply pressure to this hole. Attach tubing to the vent hole and place the end of the tubing so it is not exposed to dust or water.

For the rod end male thread, refer to page 331. For the mounting bracket dimensions, refer to page 361.



In-line motor type



Size	Stroke range [mm]		With lock	В	С	D	EH	EV	FH	FV	G	Н	J	K	L
25	15 to 100 101 to 400	250 275	300 325	89.5 114.5	13	20	44	45.5	57.6	57.7	94.7	M8 x 1.25	24	17	14.5
32	20 to 100 101 to 500	265.5 295.5	315.5 345.5	96 126	13	25	51	56.5	69.6	79.6	116.6	M8 x 1.25	31	22	18.5

Size	Stroke range [mm]	М	O 1	R	OA	ОВ	PA	РВ	Q	U	PC	Without lock	With lock	Y
25	15 to 100 101 to 400	34	M5 x 0.8	8	37	38	15.4	8.2	28	0.9	15.9	146	196	24.5
32	20 to 100 101 to 500	40	M6 x 1.0	10	37	38	15.4	8.2	28	1	15.9	151	201	27

Body	Body Bottom Tapped									
Size	Stroke range [mm]	MA	МС	MD	МН	ML	МО	MR	XA	ХВ
	15 to 39		24	32		50		6.5	4	
	40 to 100		42	41						
25	101 to 124	20	42	41	29		M5 x 0.8			5
	125 to 200		59	49.5		75				
	201 to 400		76	58						
	20 to 39		22	36		50	M6 x 1	8.5	5	6
	40 to 100		36	43		30				
32	101 to 124	25	30	43	30					
	125 to 200		53	51.5		80				
	201 to 500		70	60						

- *1 This is the 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 returning to origin
- *3 [] for when the direction of return to origin has changed
- *4 The direction of rod end width across flats ($\square K$) differs depending on the products.
- *5 The vent hole is the port for releasing to atmosphere. Do not apply pressure to this hole. Attach tubing to the vent hole and place the end of the tubing so it is not exposed to dust or water.

For the rod end male thread, refer to page 331. For the mounting bracket dimensions, refer to page 361.

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LEY-X5 11-LEFS

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Motorless | LECY□ | LECS□ |

Electric Actuator Rod Type Dust-tight/Water-jet-proof (IP65 Equivalent)

The LECSB-S, LECSC-S, and LECSS-S electric actuator drivers are to be discontinued. The LECSB-T, LECSC-T, and LECSS-T drivers are available as substitutes. In the product number, select T6 instead of S6, or T7 instead of S7 for the 4 Motor type, and select B2 instead of B1, C2 instead of C1, or S2 instead of S1 for the **1** Driver type.

LEY-X5 (Made to Order) Series

Refer to page 305 for model selection. Size 63 is available by selecting option P. Refer to page 343.

Click here for details.

LECY Series > p. 625 | Motorless Type > p. 907

How to Order

LEY	Н	25		S2	В	-100				- S	2	A1		- <u>X5</u>
	0	2	3	4	6	6	7	8	9	•	•	12	(B)	●Made to order: Dust-tight/ Water-jet-proof

Accuracy					
Nil	Basic type				
Н	High-precision type				

C	curacy	U S
	Basic type	25
	High-precision type	32

3 Mot	or mounting position
Nil	Top side parallel
D	In-line

4	Motor	type
•		., ,

Symbol	Туре	Output [W]	Actuator size	Compatible drivers
S2*1	AC servo motor	100	25	LECSA□-S1
S3	(Incremental encoder)	200	32	LECSA□-S3
S6*1	AC servo motor	100	25	LECSB□-S5 LECSC□-S5 LECSS□-S5
S7	(Absolute encoder)	200	32	LECSB□-S7 LECSC□-S7 LECSS□-S7
T6*2	AC servo motor	100	25	LECSB2-T5 LECSC2-T5 LECSN2-T5-□ LECSS2-T5
Т7	(Absolute encoder)	200	32	LECSB2-T7 LECSC2-T7 LECSN2-T7-□ LECSS2-T7

- *1 For motor type S2 and S6, the compatible driver part number suffixes are S1 and S5 respectively.
- *2 For motor type T6, the compatible driver part number is LECS□2-T5.

6 Lead [mm]

	<u> </u>	
Symbol	LEY25□	LEY32□*1
Α	12	16 (20)
В	6	8 (10)
С	3	4 (5)

^{*1} The values shown in () are the equivalent leads which include the pulley ratio for the size 32 top side parallel motor type.

6 Stroke [mm]

30	30
to	to
500	500

^{*} For details, refer to the applicable stroke table below.

Motor option

	• motor option					
Nil	Without option					
В	With lock*1					

*1 When "With lock" is selected for the top side parallel motor type, the motor body will stick out from the end of the body for size 25 with strokes of 30 mm or less. Check for interference with workpieces before selecting a model.

Rod end thread

Nil	Rod end female thread
м	Rod end male thread
IVI	(1 rod end nut is included.)

9 Mounting*1

Symbol	Tuno	Motor mounting position		
Symbol	Туре	Parallel	In-line	
Nil	Ends tapped/ Body bottom tapped *2	•	•	
L	Foot	•	_	
F	Rod flange*2	●*3	•	
G	Head flange*2	●*4	_	

- *1 The mounting bracket is shipped together with the product but does not come assembled.
- *2 For the horizontal cantilever mounting of the rod flange, head flange, or ends tapped types, use the actuator within the following stroke range.
 - LEY25: 200 mm or less
 - LEY32: 100 mm or less
- *3 The rod flange type is not available for the LEY25 with a 30 mm stroke and motor option "With lock."
- *4 The head flange type is not available for the LEY32.

Applicable Stroke Table •: Standard												
Stroke Model	30	50	100	150	200	250	300	350	400	450	500	Manufacturable stroke range [mm]
LEY25	•	•	•	•	•	•	•	•	•	_	_	15 to 400
LFV32												20 to 500

Please consult with SMC for non-standard strokes as they are produced as special orders.

^{*} For auto switches, refer to page 630.



Cable type*1 *2

Nil	Without cable
S	Standard cable
R	Robotic cable (Flexible cable)
R	Robotic cable (Flexible cable)

- *1 The motor and encoder cables are included. (The lock cable is also included when the motor with lock option is selected.)
- *2 Standard cable entry direction is
 - Top side parallel: (A) Axis side
 - In-line: (B) Counter axis side (Refer to page 796 for details.)

I/O cable length [m]*1

Nil	Without cable
Н	Without cable (Connector only)
1	1.5

*1 When "Without driver" is selected for driver type, only "Nil: Without cable" can be selected. Refer to page 797 if I/O cable is required. (Options are shown on page 797.)

Cable length [m]*1

Nil	Without cable
2	2
5	5
Α	10

*1 The length of the encoder, motor, and lock cables are the same.

Driver type*1

<u> </u>							
	Compatible drivers	Power supply voltage [V]					
Nil	Without driver						
A 1	LECSA1-S□	100 to 120					
A2	LECSA2-S□	200 to 230					
B1	LECSB1-S□	100 to 120					
B2	LECSB2-S□	200 to 230					
D2	LECSB2-T□	200 to 240					
C1	LECSC1-S□	100 to 120					
C2	LECSC2-S□	200 to 230					
C2	LECSC2-T□	200 10 230					
S1	LECSS1-S□	100 to 120					
S2	LECSS2-S□	200 to 230					
32	LECSS2-T□	200 to 240					
N2	LECSN2-T□	200 to 240					
92	LECSN2-T□-9	200 to 240					
E2	LECSN2-T□-E	200 to 240					
P2	LECSN2-T□-P	200 to 240					
A Miles of the second s							

st 1 When a driver type is selected, a cable is included. Select the cable type and cable length. Example)

S2S2: Standard cable (2 m) + Driver (LECSS2)

S2: Standard cable (2 m) Nil: Without cable and driver

Compatible Drivers

Driver type	Pulse input type /Positioning type	Pulse input type	CC-Link direct input type	SSCNET III type	Pulse input type	CC-Link direct input type	type	Network card type		
Series	LECSA	LECSB	LECSC	LECSS	LECSB-T	LECSC-T	LECSS-T	LECSN-T		
Number of point tables*1	Up to 7	_	Up to 255 (2 stations occupied)	_	Up to 255	Up to 255 (2 stations occupied		Up to 255		
Pulse input	0	0	_	_	0 –		_	_		
Applicable network	_	_	CC-Link	SSCNET II	_	CC-Link	SSCNETⅢ/H	PROFINET EtherCAT® EtherNet/IP™		
Control encoder	Incremental 17-bit encoder	Absolute 18-bit encoder	Absolute 18-bit encoder	Absolute 18-bit encoder	Absolute 22-bit encoder	Absolute 18-bit encoder	Absolute 22-bit encoder	Absolute 22-bit encoder		
Communication function	USB communication	USB communication,	RS422 communication	USB communication	USB communication,	RS422 communication	USB communication	USB communication		
Power supply voltage [V]			AC (50/60 Hz) AC (50/60 Hz)		200 to 240 VAC (50/60 Hz)	200 to 230 VAC (50/60 Hz)	200 to 240 VAC (50/60 Hz)	200 to 240 VAC (50/60 Hz)		
Reference page		777								

^{*1} The LECSN-T only supports PROFINET and EtherCAT®.



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Specifications: LECSA/LECSB/LECSC/LECSS

		Model		LEY25S ₆ ² /T	6-X5 /LEY25	DS ₆ ² /T6-X5	LEY32	S ³ /T7-X5 (F	Parallel)	LEY32DS ₇ ³ /T7-X5 (In-line)				
	Wark land [km]	Horizo	ntal*1	18	50	50	30	60	60	30	60	60		
	Work load [kg]	Vertical*8		8	16	30	9	19	37	12	24	46		
	Force [N]*2 (S	Set value: 15 to 30%)*15		65 to 131	127 to 255	242 to 485	79 to 157	154 to 308	294 to 588	98 to 197	192 to 385	368 to 736		
	Max. speed	Stroke	Up to 300	900	450	225	1200	600	300	1000	500	250		
	[mm/s]*3	range	305 to 400	600	300	150	1200	000	300	1000	300	230		
က္	[IIIII/S] °		405 to 500		_	_	800	400	200	640	320	160		
<u> </u>	Pushing speed [mm/s]*4				35 or less			30 or less			30 or less			
Actuator specifications	Max. accelera	tion/decelera		5000 5000										
J≝	Positioning		Basic type	±0.02										
မြ	repeatability	[mm]	High-precision type Basic type											
S	Lost motion		0.1 or less											
호			High-precision type		ı			0.05 or less			r			
Ξ	Lead [mm] (i			12	6	3	20	10	5	16	8	4		
당	Impact/Vibrati		e [m/s²]*6		50/20 50/20									
	Actuation typ	ре			ew + Belt/Ba		Ball screw + Belt [1.25:1] Ball scr							
	Guide type			Sliding bushing (Piston rod) Sliding bushing (Piston rod) IP65 equivalent										
	Enclosure*7				IF	65 equivale								
	Operating ter	_			5 to 40	\			5 to					
	Operating hu		е [%НН]	90 or less (No condensation) 90 or less (No condensation)										
	Regeneration			May be required depending on speed and work load (Refer to pages 307 and 308.) 100 W/□40 200 W/□60										
	Motor output	/Size		200 10 200										
l E	Motor type			AC servo motor (100/200 VAC) AC servo motor (100/200 VAC)										
specifications	Encoder*14			Motor type S2, S3: Incremental 17-bit encoder (Resolution: 131072 p/rev) Motor type S6, S7: Absolute 18-bit encoder (Resolution: 262144 p/rev) Motor type T6, T7: Absolute 22-bit encoder (Resolution: 4194304 p/rev) (For LECSB-T□, LECSS-T□) Motor type T6, T7: Absolute 18-bit encoder (Resolution: 262144 p/rev) (For LECSC-T□)										
	Power		Horizontal		45			65		. , ,	65	·		
Electric	consumption	ı [W] *9	Vertical		145			175			175			
둟	Standby power	consumption	Horizontal		2			2			2			
ı	when operating [W]*10 Vertical				8			8			8			
	Max. instantaneous power consumption [W]*11				445			724		724				
- 2	Type*12						Non-	magnetizing	lock					
r mit	Holding force			131	255	485	157	308	588	197	385	736		
Lock		_ •	0°C [W]* ¹³	6.3 7.9 7.9										
_ gs	Rated voltag	e [V]		24 VDC ⁰ _{-10%}										

- *1 This is the maximum value of the horizontal work load. An external guide is necessary to support the load. The actual work load changes according to the condition of the external guide. Confirm the load using the actual device.
- *2 The force setting range (set values for the driver) for the force control with the torque control mode. Set it while referencing the "Force Conversion Graph (Guide)" on pages 309 and 310. When the control equivalent to the pushing operation of the JXC51/61 series controller is performed, select the LECSS-T or LECSB2-T driver. The point table no. input method is used for the LECSB2-T. When selecting the LECSS2-T, combine it with a Simple Motion module (manufactured by Mitsubishi Electric Corporation) which has a pushing operation function.
- *3 The allowable speed changes according to the stroke.
- *4 The allowable collision speed for collision with the workpiece with the torque control mode
- A reference value for correcting an error in reciprocal operation
 Impact resistance: No malfunction occurred when the actuator was tested with a drop tester in both an axial direction and a perpendicular direction to the lead screw. (The test was performed with the actuator in the initial state.) Vibration resistance: No malfunction occurred in a test ranging between 45 to 2000 Hz. The test was performed in both an axial direction and a perpendicular direction to the lead screw. (The test was performed with the actuator in the initial state.)
- *7 Cannot be used in an environment where oil such as cutting oil splashes or it is constantly exposed to water Take appropriate protective measures. For details on enclosure, refer to the "Enclosure" on page 415.
- *8 When mounting vertically and using the product facing upwards in an environment where water is present, take necessary measures to prevent water from splashing on the rod cover, because water will accumulate on the rod seal due to the structure of the product.
- *9 The power consumption (including the driver) is for when the actuator is operating.
 *10 The standby power consumption when operating (including the driver) is for when the actuator is stopped in the set position during the operation.
- *11 The maximum instantaneous power consumption (including the driver) is for when the actuator is operating.
- *12 Only when motor option "With lock" is selected
 *13 For an actuator with lock, add the power consumption for the lock.
- *14 The resolution will change depending on the driver type. *15 For motor type T6 and T7, the set value is from 12 to 24%.

Weight

Motor type

encoder

Product Weight [kg]																						
	Series		LEY	25S ₆ /	T6-X5	(Moto	r mou	nting	positio	n: Pai	rallel)		LEY3	2S ³ /T	7-X5	(Moto	r mou	nting	positi	on: Pa	arallel)
	Stroke [mm]		30	50	100	150	200	250	300	350	400		50	100	150	200	250	300		400	450	500
e o	Incremental end	oder	1.31	1.38	1.55	1.81	1.99	2.16	2.34	2.51	2.69	2.42	2.53	2.82	3.29	3.57	3.85	4.14	4.42	4.70	4.98	5.26
Mote	Absolute	S6/S7	1.37	1.44	1.61	1.87	2.05	2.22	2.40	2.57	2.75	2.36	2.47	2.76	3.23	3.51	3.79	4.08	4.36	4.64	4.92	5.20
2	encoder	T6/T7	1.4	1.5	1.6	1.9	2.0	2.2	2.4	2.6	2.7	2.3	2.4	2.7	3.2	3.5	3.8	4.1	4.3	4.6	4.9	5.2
Series LEY25DS ₆ /T6-X5 (Motor mounting position: In-line) LEY32DS ₇ /T7-X5 (Motor mounting position: In-							ln-line)														
	Stroke [mm]		30	50	100	150	200	250	300	350	400	30	50	100	150	200	250	300	350	400	450	500

| Incremental encoder | 1.34 | 1.41 | 1.58 | 1.84 | 2.02 | 2.19 | 2.37 | 2.54 | 2.72 | 2.44 | 2.55 | 2.84 | 3.31 | 3.59 | 3.87 | 4.16 | 4.44 | 4.72 | 5.00 | 5.28 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 |

1.5 | 1.6 | 1.9 | 2.1 | 2.2 | 2.4 | 2.6 | 2.8 | 2.4 | 2.5 | 2.8 | 3.2 | 3.5 | 3.8 | 4.1 | 4.4 | 4.6

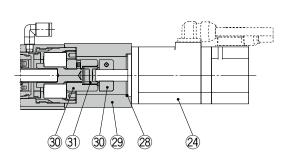
Additional Weight [kg]								
	Size							
Lock	Incremental encoder	0.20	0.40					
LOCK	Absolute encoder	0.30	0.66					
Rod end male thread	Male thread	0.03	0.03					
nou enu maie uneau	Nut	0.02	0.02					
Foot bracket (2 se	ts including mounting bolt)	0.08	0.14					
Rod flange (includ	Rod flange (including mounting bolt)							
Head flange (including mounting bolt) 0.17 0.20								
Double clevis (including pin, retaining ring, and mounting bolt) 0.16 0.22								

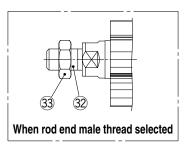
Construction

Top side parallel motor type: LEY₃₂²⁵

Cable is shipped together. (19) 26 25 11 **(15) (4)** 3

In-line motor type: LEY₃₂D





Component Parts

	.poo ao				
No.	Description	Material	Note		
1	Body	Aluminum alloy	Anodized		
2	Ball screw shaft	Alloy steel			
3	Ball screw nut	Synthetic resin/Alloy steel			
4	Piston	Aluminum alloy			
5	Piston rod	Stainless steel	Hard chrome plating		
6	Rod cover	Aluminum alloy			
7	Bearing holder	Aluminum alloy			
8	Rotation stopper	Synthetic resin			
9	Socket	Free cutting carbon steel	Nickel plating		
10	Connected shaft	Free cutting carbon steel	Nickel plating		
11	Bushing	Bearing alloy			
12	Bearing	_			
13	Return box	Aluminum die-cast	Coating		
14	Return plate	Aluminum die-cast	Coating		
15	Magnet	_			
16	Wear ring holder	Stainless steel	Stroke 101 mm or more		
17	Wear ring	Synthetic resin	Stroke 101 mm or more		

No.	Description	Material	Note
18	Screw shaft pulley	Aluminum alloy	
19	Motor pulley	Aluminum alloy	
20	Belt	_	
21	Scraper	Synthetic resin	
22	Retaining ring	Steel for spring	Phosphate coating
23	Motor adapter	Aluminum alloy	Coating
24	Motor	_	
25	Lube-retainer	Felt	
26	O-ring	NBR	
27	Gasket	NBR	
28	O-ring	NBR	
29	Motor block	Aluminum alloy	Coating
30	Hub	Aluminum alloy	
31	Spider	Urethane	
32	Socket (Male thread)	Free cutting carbon steel	Nickel plating
33	Nut	Alloy steel	Trivalent chromating

Replacement Parts (Top side parallel only)/Belt

No.	Size	Order no.
20	25	LE-D-2-2
20	32	LE-D-2-4

Replacement Parts/Grease Pack

Applied portion	Order no.
Piston rod	GR-S-010 (10 g) GR-S-020 (20 g)

Apply grease on the piston rod periodically. Grease should be applied at 1 million cycles or 200 km, whichever comes first.

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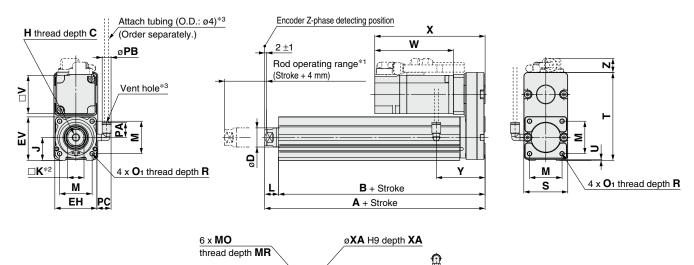
LEY-X5

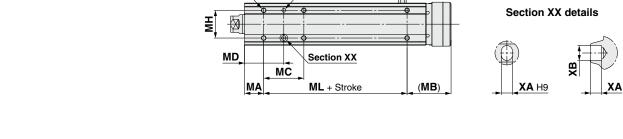
11-LEFS 11-LEJS

25A-

Motorless | LECY□ | LECS□-T | JXC□ | LEC□

Top side parallel motor type: LEY₃₂²⁵





																					[mm]
Size	Stroke range [mm]	A	В	С	D	ЕН	EV	Н		J	К	L	М	O 1	R	PA	РВ	v	s	т	U
25	15 to 100	130.5	116	13	20	44	45.5	15.5 M8 x 1.25		24	17	14.5	34	M5 x 0.	8 8	15.4	8.2	40	46	92	1
25	101 to 400	155.5	141	13	20	44	45.5	IVIO X	1.25	24	17	14.5	34	IVIO X U.	0 0	15.4	0.2	40	40	92	<u> </u>
32	20 to 100	148.5	130	13	25	51	EC E	M8 x	1 05	31	22	18.5	40	M6 x 1.	0 10	15.4	8.2	60	60	118	1
32	101 to 500	178.5	160	13	25	51	56.5	IVIO X	1.25	31	22	10.5	40	IVIO X I.	0 10	15.4	0.2	60	00	110	'
	0			Incr	ement	al enco	der			Absol	ute en	coder	S6/S7]		Absolu	ute end	oder [Γ6/T7]		
Size	Stroke range	PC	Wi	thout lo	ock	٧	Vith loc	k	W	ithout I	ock	١ ١	With lo	ck	Wi	thout lo	ck	V	Vith loc	k	Υ
	[mm]		W	Х	Z	W	Х	Z	W	Х	Z	W	X	Z	W	Х	Z	W	Х	Z	
25	15 to 100	15.4	87	120	14.1	100.0	156.9	15.8	82.4	115.4	14.1	100 5	156.5	5 15.8	82.4	115.4	14.1	123	156	15.8	51
25	101 to 400	15.4	07	120	14.1	123.9	156.9	15.6	02.4	115.4	14.1	123.5	136.3	15.6	02.4	115.4	14.1	123	156	15.6	51
32	20 to 100	15.9	88.2	128.2	17.1	116.0	156.8	17.1	76.6	116.6	17.1	116.1	156	1 17.1	76.6	116.6	17.1	110 4	153.4	17.1	61
32	101 to 500	15.9	00.2	120.2	17.1	110.0	150.6	17.1	70.0	110.0	17.1	110.1	156.	' '/.'	76.6	110.0	17.1	113.4	155.4	17.1	01

Body	Bottom T	apped									[mm]
Size	Stroke range [mm]	MA	МВ	МС	MD	МН	ML	МО	MR	XA	ХВ
	15 to 39			24	32		50				
	40 to 100			42	41			M5 x 0.8	6.5	4	
25	101 to 124	20	46	42	41						5
	125 to 200			59	49.5		75				
	201 to 400			76	58						
	20 to 39			22	36		50				
	40 to 100			36	43		50				
32	101 to 124	25	55	30	43	30		M6 x 1	8.5	5	6
	125 to 200			53	51.5		80				
	201 to 500			70	60						

^{*1} This is the range within which the rod can move. Make sure workpieces mounted on the rod do not interfere with the workpieces and facilities around the rod.

For the rod end male thread, refer to page 341. For the mounting bracket dimensions, refer to page 361.

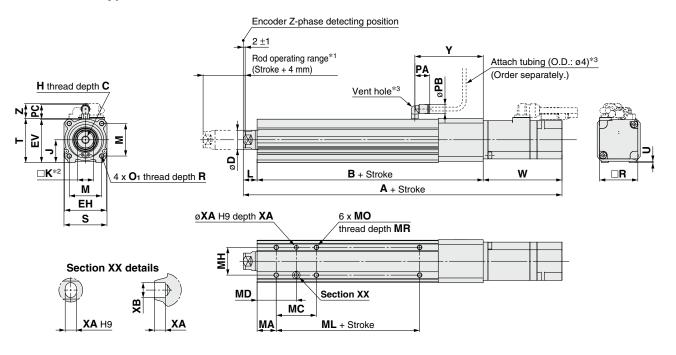


^{*2} The direction of rod end width across flats ($\square K$) differs depending on the products.

^{*3} The vent hole is the port for releasing to atmosphere. Do not apply pressure to this hole.

Attach tubing to the vent hole and place the end of the tubing so it is not exposed to dust or water.

In-line motor type: LEY₃₂D



																				[mm]
	Chualta namana		Inc	cremen	tal end	oder		Absolu	ute end	oder [S	6/S7]			Absol	ute en	coder [T	6/T7]			
Size	Stroke range [mm]	Wi	thout I	ock		With lock	~	Wit	hout lo	ck	٧	Vith loc	k	W	thout lo	ock	V	Vith loc	k	В
	[111111]	Α	W	Z	Α	W	Z	Α	W	Z	Α	W	Z	Α	VB	VC	Α	VB	VC	
25	15 to 100	238	87	14.6	274.9	123.9	16.3	233.4	82.4	14.6	274.5	123.5	16.3	233.4	82.4	14.6	274	123	16.3	136.5
25	101 to 400	263	67	14.0	299.9) 123.9	10.3	258.4	02.4	14.0	299.5	123.3	10.3	258.4	02.4	14.0	299	123	10.3	161.5
32	20 to 100	262.7	88.2	17.1	291.3	116.8	17.1	251.1	76.6	17.1	290.6	116.1	17.1	251.1	76.6	17.1	287.9	113.4	17.1	156
32	101 to 500	292.7	00.2	17.1	321.3	3 110.8	17.1	281.1	70.0	17.1	320.6	110.1	17.1	281.1	70.0	17.1	317.9	113.4	17.1	186
Size	Stroke range [mm]	С	D	ЕН	EV	Н	J	K	L	М	0	1	R	PA F	В	/ S	т	U	РС	Y
25	15 to 100 101 to 400	13	20	44	45.5	M8 x 1.2	25 24	4 17	14.5	34	M5 x	0.8	8 1	5.4 8	3.2 4	0 4	5 46.	5 1.5	15.9	71.5
32	20 to 100 101 to 500	13	25	51	56.5	M8 x 1.2	25 3°	1 22	18.5	40	M6 x	1.0	10 1	5.4 8	3.2 6	0 60	0 61	1	15.9	87

Body	Bottom T	apped								[mm]
Size	Stroke range [mm]	MA	МС	MD	МН	ML	МО	MR	XA	ХВ
	15 to 39		24	32		50				
	40 to 100		42	41		50	M5 x 0.8		4	
25	101 to 124	20	42	41	29	75		6.5		5
	125 to 200		59	49.5						
	201 to 400		76	58						
	20 to 39		22	36		50				
	40 to 100		36	43						
32	101 to 124	25	30	43	30		M6 x 1	8.5	5	6
	125 to 200		53	51.5		80				
	201 to 500		70	60						

^{*1} This is the range within which the rod can move. Make sure workpieces mounted on the rod do not interfere with the workpieces and facilities around the rod.

*2 The direction of rod end width across flats (□K) differs depending on the products.

For the rod end male thread, refer to page 341. For the mounting bracket dimensions, refer to page 361.

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11-LEJS 11-LEFS LEY-X5

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LECS | JXC | LEC |

Motorless | LECY□ | LECS□ |



^{*3} The vent hole is the port for releasing to atmosphere. Do not apply pressure to this hole. Attach tubing to the vent hole and place the end of the tubing so it is not exposed to dust or water.

Electric Actuator Rod Type Dust-tight/Water-jet-proof (IP65 Equivalent)

LEY-X5 (Made to Order) Series LEY25, 32

Refer to page 312 for model selection. Size 63 is available by selecting option P. Refer to page 351.



LECS Series > p. 619 Motorless Type > p. 907

How to Order

LEYH 25	V6 I	3 - 200		-S3	M2	- X5
0 2	8 4	6	0 8 9	• •		● Made to order: Dust-tight/ Water-jet-proof

Accuracy

Accuracy								
Nil	Basic type							
Н	High-precision type							

Siz	е
25	
32	

3 Мо	tor mounting position
Nil	Top side parallel

(<u> 4</u>	Мо	tor	type	е

	7			
Symbol	Туре	Output [W]	Size	Compatible drivers
V6 *1	AC servo motor	100	25	LECYM2-V5 LECYU2-V5
V7	(Absolute encoder)	200	32	LECYM2-V7 LECYU2-V7

^{*1} For motor type V6, the compatible driver part number suffix is V5.

5 Lead [mm]

Symbol	LEY25	LEY32
Α	12	16 (20)
В	6	8 (10)
С	3	4 (5)

* The values shown in () are the leads for the top side parallel motor type. (Equivalent leads which include the pulley ratio [1.25:1])

6 Stroke [mm]

O Stroke [mm]						
30	30					
to	to					
500	500					

For details, refer to the applicable stroke table below.

Motor option

	101 opinon
Nil	Without option
В	With lock

When "With lock" is selected for the top side parallel motor type, the motor body will stick out from the end of the body for size 25 with strokes of 30 mm or less.

Check for interference with workpieces before selecting a model.

•	
Motor	

8 Rod end thread

Nil	Rod end female thread								
М	Rod end male thread (1 rod end nut is included.)								

Applicable Stroke Table •: Standard												
Stroke [mm]		50	100	150	200	250	300	350	400	450	500	Manufacturable stroke range
LEY25	•	•	•	•	•	•	•	•	•	_	_	15 to 400
LEY32	•	•	•	•	•	•	•	•	•	•	•	20 to 500

Please consult with SMC for non-standard strokes as they are produced as special orders.



Motor mounting position: Parallel

Motor mounting position: In-line

Mounting*1

UNI O	ounting				
0	Type	Motor mounting position			
Symbol	Type	Parallel	In-line		
Nil	Ends tapped/ Body bottom tapped*2	•	•		
L	Foot	•	_		
F	Rod flange*2	●*3	•		
G	Head flange*2	●*4	_		

- *1 The mounting bracket is shipped together with the product but does not come assembled.
- *2 For the horizontal cantilever mounting of the ends tapped, rod flange, or head flange types, use the actuator within the following stroke range.
 - · LEY25: 200 mm or less · LEY32: 100 mm or less
- *3 The rod flange type is not available for the LEY25 with a 30 mm stroke and motor option "With lock."
- *4 The head flange type is not available for the LEY32.

Cable type*1

Nil	Without cable
S	Standard cable
R	Robotic cable (Flexible cable)

*1 The motor and encoder cables are included. The motor cable for lock option is included when the motor with lock option is selected.

Cable length [m]*1

Nil	Without cable
3	3
5	5
Α	10
С	20

*1 The length of the motor and encoder cables are the same. (For with lock)

12 Driver type

	, .,	
	Compatible drivers	Power supply voltage [V]
Nil	Without driver	_
M2	LECYM2-V□	200 to 230
U2	LECYU2-V□	200 to 230

When a driver type is selected, a cable is included. Select the cable type and cable length.

I/O cable length [m]*1

	<u></u>
Nil	Without cable
Н	Without cable (Connector only)
1	1.5

*1 When "Without driver" is selected for driver type, only "Nil: Without cable" can be selected. Refer to page 808 if I/O cable is required. (Options are shown on page 808.)

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Compatible Drivers		
Driver type	MECHATROLINK-II type	MECHATROLINK-III type
Series	LECYM	LECYU
Applicable network	MECHATROLINK-II	MECHATROLINK-Ⅲ
Control encoder		olute encoder
Communication device	USB communication, I	RS-422 communication
Power supply voltage [V]	200 to 230 V	AC (50/60 Hz)
Reference page	80	01

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LEY-X5

11-LEFS 11-LEJS

Motorless | LECY□ | LECS□



Specifications: LECY

		Model		LEY25V	6-X5/LEY2	5DV6-X5	LEY3	2V7-X5 (Pa	arallel)	LEY3	2DV7-X5 (I	n-line)
	Maula la a	al Flant	Horizontal*1	18	50	50	30	60	60	30	60	60
	Work loa	ia [kg]	Vertical*9	8	16	30	9	19	37	12	24	46
		*2 (Set value:	45 to 90%)	65 to 131	127 to 255	242 to 485	79 to 157	154 to 308	294 to 588	98 to 197	192 to 385	368 to 736
	Max.*3	Stroke	Up to 300	900	450	225	1200	600	300	1000	500	250
	speed	speed	305 to 400	600	300	150	1200	000	300	1000	300	250
	[mm/s]	range	405 to 500	_	_	_	800	400	200	640	320	160
S	Pushing	speed [mm/	/s]* ⁴		35 or less			30 or less			30 or less	
specifications	Max. accele	eration/decelera	ation [mm/s ²]		5000				50	00		
Sa	Positioni	ing	Basic type		±0.02				±0.	.02		
!	repeatability [mm] High-precision type				±0.01				±0.	.01		
ĕ	Lost motion [mm]*5		Basic type		0.1 or less		0.1 or less					
	Lost motion [mm]**	High-precision type		0.05 or less				0.05 c	r less			
Actuator	Lead [mm] (including p	oulley ratio)	12	6	3	20*6	10*6	5* ⁶	16	8	4
Ĕ	Impact/Vibration resistance [m/s ²]*7			50/20					50/	/20		
S	Actuation type			Ball screw + Belt (LEY□)/Ball screw (LEY□D)			Ball screw + Belt [1.25:1] Ball screw					
	Guide type			Sliding bushing (Piston rod) Sliding bushing (Piston rod)								
	Enclosure*8			IP65 equivalent								
	Operating temperature range [°C]				5 to 40 5 to 40							
	Operating	g humidity ra	ange [%RH]				90 or less (No condensation)					
	Conditions 1	or*10	Horizontal		Not required	l	Not required					
	"Regenerative resistor" [kg] Vertical			6 or more			4 or more					
ည	Motor ou	tput/Size		100 W/□40 200 W/□60								
를	Motor ty			AC ser	AC servo motor (200 VAC) AC servo motor (200 VAC)							
specifications	Encoder					Absolute	20-bit enco		ition: 104857	76 p/rev)		
6	Power		Horizontal		45		65			65		
		tion [W]*11	Vertical		145		175			175		
을	Standby pov	ver consumption			2		2			2		
Electric	when operat		Vertical		8			8		8		
ш	Max. instanta	neous power consi	umption [W]*13		445			724			724	
= Suo	Type*14				Г			-magnetizing			ı	Г
k unit	Holding			131	255	485	157	308	588	197	385	736
Loc	Power consumption at 20°C [W]*15			5.5 6 6								
S	Rated vo							24 VDC +10%	•			

- *1 This is the maximum value of the horizontal work load. An external guide is necessary to support the load. The actual work load changes according to the condition of the external guide. Confirm the load using the actual device.
- *2 The force setting range (set values for the driver) for the force control with the torque control mode
 - Set it while referencing the "Force Conversion Graph (Guide)" on page 316.
- *3 The allowable speed changes according to the stroke.
- *4 The allowable collision speed for collision with the workpiece with the torque control mode
- *5 A reference value for correcting an error in reciprocal operation
- *6 Equivalent leads which include the pulley ratio [1.25:1]
- *7 Impact resistance: No malfunction occurred when the actuator was tested with a drop tester in both an axial direction and a perpendicular direction to the lead screw. (The test was performed with the actuator in the initial state.)

Vibration resistance: No malfunction occurred in a test ranging between 45 to 2000 Hz. The test was performed in both an axial direction and a perpendicular direction to the lead screw. (The test was performed with the actuator in the initial state.)

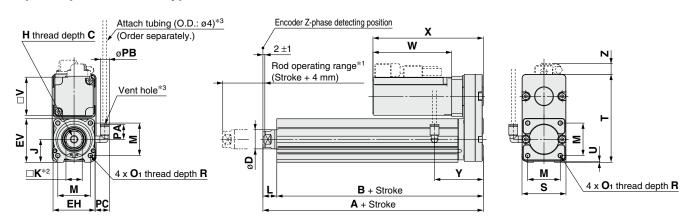
- *8 Cannot be used in an environment where oil such as cutting oil splashes or it is constantly exposed to water Take appropriate protective measures. For details on enclosure, refer to the "Enclosure" on page 415.
- *9 When mounting vertically and using the product facing upwards in an environment where water is present, take necessary measures to prevent water from splashing on the rod cover, because water will accumulate on the rod seal due to the structure of the product.
- *10 The work load conditions which require the "Regenerative resistor" when operating at the maximum speed (Duty ratio: 100%)
 Order the regenerative resistor separately. For details, refer to the "Conditions for Regenerative
 - Resistor (Guide)" on pages 314 and 315.
- *11 The power consumption (including the driver) is for when the actuator is operating.
- *12 The standby power consumption when operating (including the driver) is for when the actuator is stopped in the set position during the operation.
- *13 The maximum instantaneous power consumption (including the driver) is for when the actuator is operating.
- *14 Only when motor option "With lock" is selected
- *15 For an actuator with lock, add the power consumption for the lock.

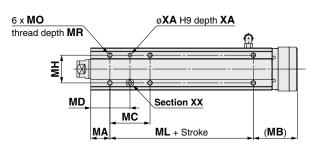
Weight

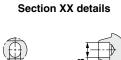
Product Weight																				[kg]
Series	LE	Y25V	6 (Mo	tor m	ountir	ng pos	ition:	Paral	llel)		LE	Y32V	7 (Mo	tor m	ountir	ng pos	sition:	Para	lel)	
Stroke [mm]	30	50	100	150	200	250	300	350	400	30	50	100	150	200	250	300	350	400	450	500
Weight [kg]	1.2	1.3	1.6	1.7	1.9	2.1	2.2	2.4	2.6	2.3	2.4	2.7	3.2	3.5	3.8	4.0	4.3	4.6	4.9	5.2
Series	Series LEY25DV6 (Motor mounting position: In-line) LEY32DV7 (Motor mounting position: In-line)																			
Stroke [mm]	30	50	100	150	200	250	300	350	400	30	50	100	150	200	250	300	350	400	450	500
Weight [kg]	1.2	1.3	1.5	1.7	1.9	2.1	2.3	2.4	2.6	2.3	2.4	2.7	3.2	3.5	3.8	4.1	4.3	4.6	4.9	5.2

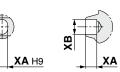
Additional Weigh	t		[kg]
	Size	25	32
Lock		0.30	0.60
Rod end male thread	Male thread	0.03	0.03
nou enu male umeau	Nut	0.02	0.02
Foot bracket (2 se	ts including mounting bolt)	0.08	0.14
Rod flange (includ	ing mounting bolt)	0.17	0.20
Head flange (inclu	ding mounting bolt)	0.17	0.20

Top side parallel motor type: LEY₃₂²⁵









																		[mm]
Size	Stroke range [mm]	A	В	С	D	ЕН	EV	н		J	K	L	М	O 1	R	PA	РВ	V
25	15 to 100	130.5	116	13	20	44	45.5	M8 x 1.	25	24	17	14.5	34	M5 x 0.8	8	15.4	8.2	40
25	101 to 400	155.5	141	13	20	44	45.5	IVIO X 1.	1VIO X 1.23	1.25 24	17	14.5	04	IVIS X 0.0		13.4	0.2	
	20 to 100	148.5	130	40	0.5		50 F	MO 4	٥- ا	04	00	40.5	40	M0 4.0	40	45.4	0.0	
32	101 to 500	178.5	160	13	25	51	56.5	M8 x 1.	25	31	22	18.5	40	M6 x 1.0	10	15.4	8.2	60
	Stroko					\\/	ithout lo	lock Wit		Vith Ioc								

Size	Stroke	s	т	- 11	РС	W	ithout lo			Vith loc	v	
Size	range [mm]	3	•		FC	W	X	Z	W	X	Z	
25	15 to 100	16	92	4	15.4	82.5	115.5	11	127.5	160.5	11	51
25	101 to 400	46	92	'	15.4	02.5	115.5	- ' '	127.5	160.5	''	51
20	20 to 100	60	110	4	15.0	80	120	14	120	160	14	61
32	101 to 500	60	118	'	15.9	80	120	14	120	160	14	01

Body	Bottom T	apped									[mm]
Size	Stroke range [mm]	MA	МВ	МС	MD	МН	ML	МО	MR	XA	ХВ
	15 to 39			24	32		50				
	40 to 100			42	41		50				
25	101 to 124	20	46	42	41	29		M5 x 0.8	6.5	4	5
	125 to 200			59	59 49.5		75				
	201 to 400			76	58						
	20 to 39			22	36		50				
	40 to 100			36	43		30				
32	101 to 124	25	55	30	43	30		M6 x 1	8.5	5	6
	125 to 200			53	51.5		80				
	201 to 500			70	60						

^{*1} This is the range within which the rod can move. Make sure workpieces mounted on the rod do not interfere with the workpieces and facilities around the rod.

For the rod end male thread, refer to page 341. For the mounting bracket dimensions, refer to page 361.

LEJS LEJB

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EB

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11-LEFS 11-LEJS

25A-

□XC□ | LEC□

Motorless | LECY□ | LECS□ |

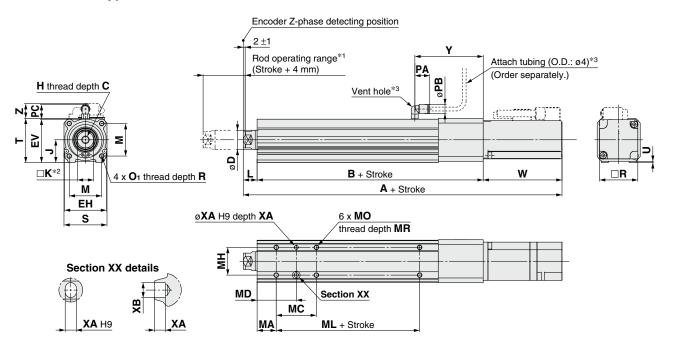


^{*2} The direction of rod end width across flats ($\square K$) differs depending on the products.

^{*3} The vent hole is the port for releasing to atmosphere. Do not apply pressure to this hole. Attach tubing to the vent hole and place the end of the tubing so it is not exposed to dust or water.



In-line motor type: LEY₃₂D



												[mm]						
Size	Stroke	Wi	ithout lo	ck	V	Vith loc	k	В	С	D	EH	EV						
OIZE	range [mm]	Α	W	Z	Α	W	Z		U	"		LV						
25	15 to 100	233.5	82.5	11.5	278.5	127.5	11.5	136.5	13	20	44	45.5						
23	101 to 400	258.5	02.5	11.5	303.5	127.5	11.5	161.5	13	20	44	45.5						
32	20 to 100	254.5	80	14	294.5	120	14	156	13	25	51	56.5						
32	101 to 500	284.5	00	14	324.5	120	14	186	13	25	51	36.3						
Size	Stroke range [mm]	ŀ	1	J	К	L	М	0	1	R	PA	РВ	v	s	т	U	РС	Υ
25	15 to 100	M8 x	1 25	24	17	14.5	34	M5 x	.08	8	15.4	8.2	40	45	46.5	1.5	15.9	71.5
	101 to 400	IVIO	1.20		''	17.5	- 04	IVIO	. 0.0		13.4	0.2	+0	73	70.0	1.5	13.9	7 1.3
22	20 to 100	M8 x	1 25	31	22	18.5	40	M6 x	1.0	10	15.4	8.2	60	60	61	1	15.9	87
32	101 to 500	IVIO X	1.20	31	~~	10.5	40	IVIO X	1.0	10	13.4	0.2	00	00	01	<u> </u>	13.9	07

Body	Bottom T	apped								[mm]	
Size	Stroke range [mm]	MA	МС	MD	МН	ML	МО	MR	XA	ХВ	
	15 to 39		24	32		50					
	40 to 100		42	41	29	30		6.5	4		
25	101 to 124	20		41		75	M5 x 0.8			5	
	125 to 200		59	49.5							
	201 to 400		76	58							
	20 to 39		22	36		50					
	40 to 100		36	43		50					
32	101 to 124	25	30	40	30		M6 x 1	8.5	5	6	
	125 to 200		53	51.5		80					
_	201 to 500		70	60							

^{*1} This is the range within which the rod can move. Make sure workpieces mounted on the rod do not interfere with the workpieces and facilities around the rod.

For the rod end male thread, refer to page 341. For the mounting bracket dimensions, refer to page 361.



^{*2} The direction of rod end width across flats ($\square K$) differs depending on the products.

^{*3} The vent hole is the port for releasing to atmosphere. Do not apply pressure to this hole. Attach tubing to the vent hole and place the end of the tubing so it is not exposed to dust or water.

Water Resistant 2-Color Indicator Solid State Auto Switch: Direct Mounting Type D-M9NA(V)/D-M9PA(V)/D-M9BA(V) (ROHS)

Grommet

- Water (coolant) resistant type
- 2-wire load current is reduced (2.5 to 40 mA).
- The proper operating range can be determined by the color of the light. (Red → Green ← Red)
- Using flexible cable as standard spec.



. Caution

Precautions

Fix the auto switch with the existing screw installed on the auto switch body. The auto switch may be damaged if a screw other than the one supplied is used.

Please consult with SMC if using coolant liquid other than water based solution.

Weight

Auto s	witch model	D-M9NA(V) D-M9PA(V)	D-M9BA(V)
	0.5 m (Nil)	8	7
Lead wire	1 m (M)	14	13
length	3 m (L)	41	38
longur	5 m (Z)	68	63

[g]

Auto Switch Specifications

PLC: Programmable Logic Controller											
D-M9□A, D-M9	9□AV (W	ith indica	tor light)								
Auto switch model	D-M9NA	D-M9NAV	D-M9PA	D-M9PAV	D-M9BA	D-M9BAV					
Electrical entry direction	In-line	Perpendicular	In-line	Perpendicular	In-line	Perpendicular					
Wiring type		3-v	/ire		2-v	vire					
Output type	N	PN	PI	NΡ	-	_					
Applicable load		IC circuit, F	Relay, PLC		24 VDC r	elay, PLC					
Power supply voltage	ţ	5, 12, 24 VDC	_								
Current consumption		10 mA	or less		-	_					
Load voltage	28 VDC	or less	_	_	24 VDC (10	to 28 VDC)					
Load current		40 mA	or less		2.5 to	40 mA					
Internal voltage drop	0.8 V or l	ess at 10 mA	(2 V or less	at 40 mA)	4 V o	r less					
Leakage current		100 μA or les	ss at 24 VDC	;	0.8 mA or less						
Indicator light	Operating range Red LED illuminates. Proper operating range Green LED illuminates.										
	F					S.					
Standard	CE marking (EMC directive/RoHS directive)										

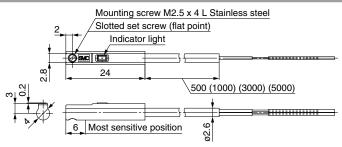
Oilproof Flexible Heavy-duty Lead Wire Specifications

Auto swi	tch model	D-M9NA□	D-M9NAV□	D-M9PA□	D-M9PAV□	D-M9BA□	D-M9BAV□
Sheath	Outside diameter [mm]			2	6		
Insulator	Number of cores	3 c	ores (Brown	n/Blue/Bla	ck)	2 cores (Bi	rown/Blue)
insulator	Outside diameter [mm]			0.	38		
Conductor	Effective area [mm²]			0.	15		
Conductor	Strand diameter [mm]			0.0	05		
Minimum bend	ling radius [mm]			1	7		

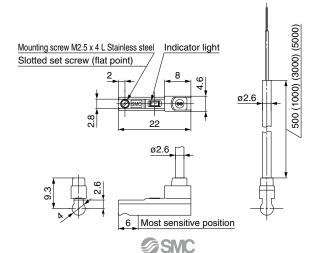
- * Refer to page 996 for solid state auto switch common specifications.
- * Refer to page 996 for lead wire lengths.

Dimensions [mm]

D-M9□A



D-M9□AV



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LEPY LEPS

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11-LEFS LEY-X5

- 11-LEJS

LEC

LAT3 | Motorless | LECY