Electric Actuator Rod Type

LEY Series LEY25, 32, 63



RoHS

How to Order



Accuracy

_	Basic type
Η	High-precision type

3 Motor mounting position

_	Top side parallel
R	Right side parallel
L	Left side parallel
D	In-line

2 Size

_	
NZ	NU
NY	NT
NX	NM1
NW	NM2
NV	NM3

4 Mounting type 5 Lead [mm]

Symbol	LEY25	LEY32	LEY63
Α	12	16 (20)	20
В	6	8 (10)	10
С	3	4 (5)	5
L	ı	-	2.86*1

- *1 Only available for top/right/left side parallel motor types (Equivalent leads which include the pulley ratio [4:7])
 The values shown in () are the leads for the top/right/left
- side parallel motor types. Except mounting type NM1 (Equivalent leads which include the pulley ratio [1.25:1])

6 Stroke [mm]

	[]
30	30
to	to
800	800

* Refer to the applicable stroke table.

Rod end thread

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

Dust-tight/Water-jet-proof <Only available for LEY63>

Symbol	LEY25/32	LEY63
_	IP4x equivalent	IP5x equivalent (Dust protected)
Р	_	IP65 equivalent (Dust-tight/Water-jet-proof)/With vent hole tap

- When using the dust-tight/water-jet-proof (IP65 equivalent), correctly mount the fitting and tubing to the vent hole tap, and then place the end of the tubing in an area not exposed to dust or water.
- The fitting and tubing should be provided separately by the customer. Select (Applicable tubing 0.0.: 0 4 or more, Connection thread: Rc1/8]. Cannot be used in environments exposed to cutting oil, etc. Take appropriate protective measures.
- For details on enclosure, refer to the "Enclosure" on pages 193 and 194.

Applicable Stroke Table

Applicabl	C	LI OK	C 10	ADIC	'									•	. Otaridard
Stroke [mm]	30	50	100	150	200	250	300	350	400	<i>1</i> 50	500	600	700	ຂດດ	Manufacturable
Model	3	3	100	3	200	230	300	3	ř	?	5	5	700	000	stroke range
LEY25	•	•	•	•	•	•	•	•	•	1	-	-	_	-	15 to 400
LEY32	•	•	•	•	•	•	•	•	•	•	•	-	_	_	20 to 500
LEY63	_	•	•		•	•	•	•		•	•		•	•	50 to 800

* Please contact SMC for non-standard strokes as they are produced as special orders.

9 Mounting*1

Cumbal	Tuno	Motor moun	ting position
Symbol	Туре	Parallel	In-line
_	Ends tapped/Body bottom tapped*2	•	•
L	Foot	•	_
F	Rod flange*2	●*4	•
G	Head flange*2	●*5	_
D	Double clevis*3	•	_

- The mounting bracket is shipped together with the product but does not come assembled.
- For the horizontal cantilever mounting with 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, LEY63: 400 mm or less
- For the mounting with the double clevis type, use the actuator within the following stroke range.

 LEY25: 200 mm or less, LEY32: 200 mm or less
- If the stroke of the LEY25 is 30 mm or less, the rod flange may interfere with the motor. *5 The head flange type is not available for the in-line type and the LEY32/63.

Compatible Motors and Mounting Types*4

	Applicable motors and mounting Types Applicable motor model Size/Mounting type																								
Applicable mo	tor model										Size		nting t	type											
Manufacturer	Series			2					32										63						
Wandladarci	Ochos	NZ	NY	NX	NM1	NM2	NM3	NZ	NY	NX	NW	NV	NU	NT	NM1	NM2	NZ	NY	NX	NW	NV	NU	NT		
Mitsubishi Electric Corporation	MELSERVO JN/J4/J5	•	-	-	_	_	-	•	-	_	-	Ι	_	_	_	_	•	_	_	_	_	_	_		
YASKAWA Electric Corporation	Σ-V/7/X	●*3	_	-	_	_	_	•	-	_	_	-	_	_	_	_	•	_	_	_	-	_	I —		
SANYO DENKI CO., LTD.	SANMOTION R	•	_	_	_	_	_	•	_	-	_	_	-	-	_	_		_	_	-	_	_	i – I		
OMRON Corporation	OMNUC G5/1S	•	_	_	_	_	_	_	•	_	_	_	_	_	_	_	_	•	_	_	_	_	_		
Panasonic Corporation	MINAS A5/A6	(MHMF only)	•	ı	_	-	1	ı	•	_	ı	ı	_	_	_	1	-	•	_	_	ı	ı	_		
FANUC CORPORATION	βis (-B)	•	-	_	_	1	1	(β1 only)	ı	_	•	-	_	_	_	-	• (β1 only)	_	_	•	-	1	-		
NIDEC SANKYO CORPORATION	S-FLAG	•	_	_	_	_	_	•	_	_	_	_	_	_	_	_	•	_	_	_	_	-	_		
KEYENCE CORPORATION	SV/SV2	*3	_	_	_	_	_	•	_	_	_	_	_	_	_	_	•	_	_	_	_	_	_		
FUJI ELECTRIC CO., LTD.	ALPHA7	•	_	_	_	_	_	•	_	_	_	_	_	_	_	_	•	_	_	_	_	-	_		
MinebeaMitsumi Inc.	Hybrid stepping motors	_	_	_	●* ¹	_	●*2	_	_	_	_	_	_	_	•	_	_	_	_	_	_	_	_		
Shinano Kenshi Co., Ltd.	CSB-BZ	_	_	_	●* ¹	_	●*2	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-	_		
ORIENTAL MOTOR Co., Ltd.	α STEP AR/AZ	1	-	_	_	AR/AZ (46 only)	1	-	-	_	1	_	_	_	_	•	-	_	-	_	-	١	-		
FASTECH Co., Ltd.	Ezi-SERVO	_	_	_	•	_	_	_	_	_	_	_	_	_	•	_	_	_	_	_	_	-	_		
Rockwell Automation, Inc. (Allen-Bradley)	Kinetix MP/VP/TL	(TL only)	-	ı	_	-	ı	ı	ı	●*1 (MP/VP only)	ı	ı	_	(TL only)	_	-	-	_	●*1 (MPVP only)	_	ı	ı	(TL only)		
Beckhoff Automation GmbH	AM 30/31/80/81	•	_	_	_	-	-	_	-	(AM80/ AM81 only)	-	*1 (AM30 only)	(AM31 only)	_	_	ı	_	_	*1 (AM80/ AM81 only)	_	*1 (AM30 only)	*1 (AM31 only)	1		
Siemens AG	SIMOTICS S-1FK7	_	_	•	_	_	_	_	_	● *1	_	_	_	_	_	_	_	_	●* ¹	_	_	_	_		
Delta Electronics, Inc.	ASDA-A2	•	_	-	_	_	_	•	_	_	_	_	_	_	_	_	•	_	_	_	_	-			
ANCA Motion	AMD2000	•	_	ı	_	_	_	•	_	_	_	-	_	_	_	_	•	_	_	_	ı	_	_		

- *1 Motor mounting position: In-line only *2 Motor mounting position: Parallel only
- *3 For some motors, the connector may protrude from the motor body. Be sure to check for interference with the mounting surface before selecting a motor.
- *4 The compatible motors and mounting types are typical examples. Select the mounting type after referring to the "Motor Mounting, Applicable Motor Dimensions" tables on the following "Dimensions" pages.

For auto switches, refer to pages 189 to 192.





Specifications

- Values in this specifications table are the allowable values of the actuator body with the standard motor mounted.
- Do not use the actuator so that it exceeds these values.

		Model				Y25 (Parall Y25D (In-lii	•	LE	EY32 (Parall	el)	LE	Y32D (In-lii	ne)					
	Work load	الدما		Horizontal*1	18	50	50	30	60	60	30	60	60					
	WOIK IOA	u [Kg]		Vertical	8	16	30	9	19	37	12	24	46					
	Force [N] (Set value:		orque	45 to 90 %)	65 to 131 127 to 255 2		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	range	• [305 to 400	600	300	150	1200	800	300	1000	300	250					
	[mm/s]	range		405 to 500	ı	_	-	800	400	200	640	320	160					
ဟ	Pushing s	speed [mm/s	s]* ⁴	35 or less 30 or less													
io	Max. accele	eration/de	eceler	ation [mm/s2]	•													
cat	Positioning			asic type		±0.02												
ιijΕ	repeatabilit	ty [mm]	High-	precision type		±0.01												
specifications	Lost moti	ion* ⁵	Ba	asic type		0.1 or less												
	[mm]		High-	precision type		0.05 or less												
nat			Threa	ad size [mm]		Ø 10				Ø	12							
Actuator	Ball scre specifica			.ead [mm] ding pulley ratio 1.25:1)	12 6 3			16 (20)* ⁹	8 (10)* ⁹	4 (5)* ⁹	16	8	4					
			Shaft	t length [mm]		Stroke + 93.5	j			Stroke + 104.5								
	Impact/Vib	ration re	esista	nce [m/s ²]*6					50/20									
	Actuation	type				rew + Belt (P II screw (In-lii		Ball screw + Belt Ball screw [Pulley ratio 1.25:1]										
	Guide typ	ре						Sliding	bushing (Pist	on rod)								
	Operating	temper	ature	range [°C]					5 to 40									
	Operating	humid	ity ra	nge [%RH]				90 or les	ss (No conde	nsation)								
	Actuation (* [ST]: S		eigh	t [kg]		x 10 ⁻³) x [ST]: x 10 ⁻³) x [ST]: (1.40 x 10 ⁻³) : 1.40 x 10 ⁻³) :								
peci	Other ine	rtia [kg	·cm²]	0.012 (LE	Y25), 0.015	(LEY25D)		0.0	35 (LEY32), (0.061 (LEY3	2D)						
thers	Friction c	oefficie	ent						0.05									
	Mechanic	al effic	ienc	y					0.8									
nce spec.	Motor typ	е						Α	.C servo moto	or								
* Reference ** motor spec.	Rated out	tput ca	pacit	y [W]		100				20	00							
*8	Rated tor	que [N	m]			0.32				0.6	64							

- *1 This is the maximum value of the horizontal work load. An external guide is necessary to support the load (Friction coefficient of guide: 0.1 or less). 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 for the force control (Speed control mode, Torque control mode)
 - The force changes according to the set value. Set it with reference to the "Force Conversion Graph (Guide)" on page 151.
- *3 The allowable speed changes according to the stroke.
- *4 The allowable collision speed for collision with the workpiece
- *5 A reference value for correcting errors 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 Each value is only to be used as a guide to select a motor of the appropriate capacity.
- *8 For other specifications, refer to the specifications of the motor that is to be installed.

Weight

Product Weight

Series		LEY25 (Motor mounting position: Parallel)										LEY32 (Motor mounting position: Parallel)									
Stroke [mm]	30	50	100	150	200	250	300	350	400	30	50	100	150	200	250	300	350	400	450	500	
Product weight [kg]	8.0	0.9	1.1	1.3	1.5	1.7	1.8	2.0	2.2	1.4	1.5	1.8	2.3	2.6	2.9	3.1	3.4	3.7	4.0	4.3	
Series	I	EY25	D (Mo	otor m	ountir	ng pos	ition:	In-line	<u>:)</u>	LEY32D (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	
Product weight [kg]	0.8	0.9	1.1	1.3	1.5	1.7	1.9	2.0	2.2	1.4	1.6	1.8	2.3	2.6	2.9	3.2	3.4	3.7	4.0	4.3	

Additional Weight [kg]										
	Size	25	32							
Rod end male thread	Male thread	0.03	0.03							
nod end male thread	Nut	0.02	0.02							
Foot bracket (2 sets i	ncluding mounting bolt)	0.08	0.14							
Rod flange (including	mounting bolt)	0.17	0.20							
Head flange (including	g mounting bolt)	0.17	0.20							
Double clevis (including	pin, retaining ring, and mounting bolt)	0.16	0.22							





Specifications

- Values in this specifications table are the allowable values of the actuator body with the standard motor mounted.
- Do not use the actuator so that it exceeds these values.

		Model		LEY63D (In-line) LEY63 (Parallel)									
	Work load	d [ka]	Horizontal*1	40	70	80	40	70	80	200			
	WOIK IOA	ս [кց]	Vertical	19	38	72	19	38	72	115			
	Force [N] (Set value:		jue 45 to 150 %)	156 to 521	304 to 1012	573 to 1910	156 to 521	304 to 1012	573 to 1910	1003 to 3343			
	0		Up to 500	1000	500	250	1000	500	250				
	Max.*3 speed	Stroke	505 to 600	800	400	200	800	400	200	70			
	[mm/s]	range	605 to 700	600	300	150	600	300	150	70			
S	[705 to 800	500	250	125	500	250	125				
Suo	Pushing s	speed [mr	n/s]* ⁴				30 or less						
specification	Max. accele	eration/dece	eleration [mm/s ²]			50	00			3000			
ij	Positionii		Basic type				±0.02						
Pe	repeatabi	lity [mm]	High-precision type		±0.01								
	Lost moti	ion* ⁵	Basic type		0.1 or less								
Actuator	[mm]		High-precision type				0.05 or less						
Act	Ball screv		Thread size [mm]				Ø 20						
`	specificat		Lead [mm]	20	10	5	20	10	5	5 (2.86)			
	•		Shaft length [mm]				Stroke + 147						
	Impact/Vib	ration resi	stance [m/s ²]*6				50/20						
	Actuation	type			Ball screw			Ball screw + Beli [Pulley ratio 1:1]		Ball screw + Belt [Pulley ratio 4:7]			
	Guide typ	ре				Slidin	g bushing (Pisto	n rod)					
	Operating	temperat	ure range [°C]				5 to 40						
	Operating	g humidity	range [%RH]			90 or l	ess (No condens	sation)					
specifications	Actuation (* [ST]: S	n unit weig Stroke)	ght [kg]	0.84 + (2.77 x 10 ⁻³) x [ST]: 200 st or less 0.94 + (2.77 x 10 ⁻³) x [ST]: Over 200 st, 500 st or less 1.03 + (2.77 x 10 ⁻³) x [ST]: Over 500 st									
ds.	Other ine	rtia [kg·cr	g·cm ²] 0.056 (LEY63D) 0.110										
Other	Friction c	oefficient		0.05									
*7	Mechanic	al efficier	псу	0.8									
pec.	Motor typ	е					AC servo motor						
Reference motor spec	Rated out	tput capa	city [W]				400						
*8	Rated tor	que [N·m]					1.27						

- *1 This is the maximum value of the horizontal work load. An external guide is necessary to support the load (Friction coefficient of guide: 0.1 or less). 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 for the force control (Speed control mode, Torque control mode)
 - The force changes according to the set value. Set it with reference to the "Force Conversion Graph (Guide)" on page 151.
- *3 The allowable speed changes according to the stroke.
- st 4 The allowable collision speed for collision with the workpiece
- $*5\,$ A reference value for correcting errors 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 Each value is only to be used as a guide to select a motor of the appropriate capacity.
- *8 For other specifications, refer to the specifications of the motor that is to be installed.

Weight

Product Weight

Stroke [mm]	50	100	150	200	250	300	350	400	450	500	600	700	800
Product weight [kg]	3.7	4.2	4.8	5.3	6.5	7.0	7.6	8.2	8.8	9.3	11.0	12.1	13.3
Model		LEY63 (Motor mounting position: Parallel)											
Stroke [mm]	50	100	150	200	250	300	350	400	450	500	600	700	800

LEY63D (Motor mounting position: In-line)

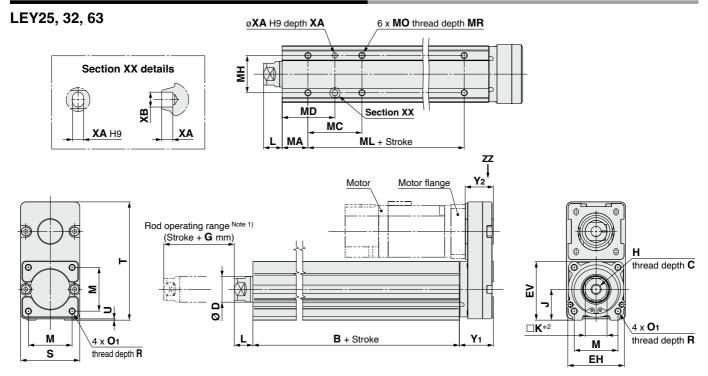
Additiona	l Weight	[kg]							
	Size	63							
Rod end	0.12								
male thread	male thread Nut								
Rod flange (i	ncluding mounting bolt)	0.51							
Foot bracket (2	2 sets including mounting bolt)	0.26							
Double clevis (including pin, retaining ring, and mounting bolt) 0.5									





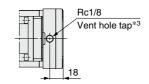
Dimensions: Top/Right/Left Side Parallel Motor

Refer to the "Motor Mounting" on pages 177 and 178 for details about motor mounting and included parts.



- *1 Do not allow collisions at either end of the rod operating range at a speed exceeding "pushing speed." Additionally, when running the positioning operation, do not set within 2 mm of both ends for size 25, 32, and do not set within 4 mm of both ends for size 63.
- *2 The direction of rod end width across flats (□K) differs depending on the products.

IP65 equivalent (Dust-tight/Water-jet-proof): LEY63□□□-□P (View ZZ)



*3 When using the dust-tight/water-jet-proof (IP65 equivalent), correctly mount the fitting and tubing to the vent hole tap, and then place the end of the tubing in an area not exposed to dust or water. The fitting and tubing should be provided separately by the customer.

Select [Applicable tubing O.D.: Ø 4 or more, Connection thread: Rc1/8].

Dimensions [mm] Size Stroke range [mm] В D ΕH E۷ **Y**2 G C М **O**1 S **Y**1 30 to 100 89.5 25 13 20 45.5 M8 x 1.25 24 17 12.5 34 M5 x 0.8 8 46 92 26.5 22 4 44 1 105 to 400 114.5 20 to 100 96 32 25 31 22 16.5 40 M6 x 1 0 10 60 34 4 13 51 56.5 M8 x 1 25 118 1 27 105 to 500 126 50 to 200 123 63 205 to 500 158 40 82 M16 x 2 36 33.4 60 M8 x 1.25 16 80 146 32.2 29 8 21 76 44 505 to 800 193

* The L measurement is when the unit is at the retracted stroke end position.

										[mm]
Size	Stroke range [mm]	MA	MC	MD	МН	ML	МО	MR	XA	XB
	30 to 35		24	2 41		50				
	40 to 100		42	41		50				
25	105 to 120	20	42	41	29		M5 x 0.8	6.5	4	5
	125 to 200		59	49.5		75				
	205 to 400		76	58						
	30 to 35		22 36 36 43		50					
	40 to 100	25		13		30		8.5		
32	105 to 120			43	30		M6 x 1		5	6
	125 to 200		53	51.5		80				
	205 to 500		70	60						
	50 to 70		24	50						
	75 to 120	1	45	60.5	5	65				
63	125 to 200	38	58	67	44		M8 x 1.25	10	6	7
	205 to 500		86	01		100				
	505 to 800		00	81		135				





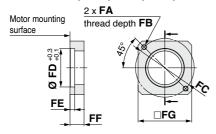
Dimensions: Top/Right/Left Side Parallel Motor

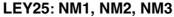
Refer to the "Motor Mounting" on pages 177 and 178 for details about motor mounting and included parts.

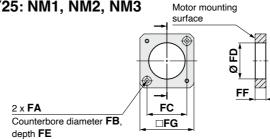
Motor flange dimensions

LEY25: NZ, NY, NX

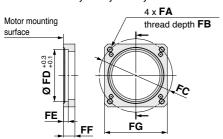
LEY32: NZ, NY, NW, NU, NT





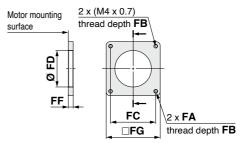


LEY63: NZ, NY, NW, NT



LEY32: NM1, NM2

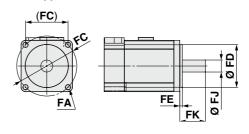
[mm]



Motor Mounting, Applicable Motor Dimensions

		·······								[]	
0:	Mounting	FA					FE				- 14
Size	type	Mounting	Applicable	FB	FC	FD	(Max.)	FF	FG	FJ	FK
	1,900	type	motor				(IVIGA.)				
	NZ	M4 x 0.7	Ø 4.5	7.5	Ø 46	30	3.7	11	42	8	25 ±1
	NY	M3 x 0.5	Ø 3.4	5.5	Ø 45	30	5	11	38	8	25 ±1
25	NX	M4 x 0.7	Ø 4.5	7	Ø 46	30	3.7	8	42	8	18 ±1
25	NM1	Ø 3.4	МЗ	7	□31	28	3.5	8.5	42	5* ¹	24 ±1
	NM2	Ø 3.4	M3	7	□31	28	3.5	8.5	42	6	20 ±1
	NM3	Ø 3.4	МЗ	7	□31	28	3.5	5.5	42	5* ¹	20 ±1
	NZ	M5 x 0.8	Ø 5.5	8.5	Ø 70	50	4.6	13	60	14	30 ±1
	NY	M4 x 0.7	Ø 4.5	7	Ø 70	50	4.6	13	60	11	30 ±1
	NW	M5 x 0.8	Ø 5.5	8.5	Ø 70	50	4.6	13	60	9	25 ±1
32	NU	M5 x 0.8	Ø 5.5	8.5	Ø 70	50	4.6	13	60	11	23 ±1
	NT	M5 x 0.8	Ø 5.5	8.5	Ø 70	50	4.6	17	60	12	30 ±1
	NM1	M4 x 0.7	Ø 4.5	(5)	□47.1	38.1	_	5	56.4	6.35*1	20 ±1
	NM2	M4 x 0.7	Ø 4.5	8	□50	38.1	_	11.5	60	10	24 ±1
	NZ	M5 x 0.8	Ø 5.5	8.5	Ø 70	50	4.6	11	60	14	30 ±1
62	NW	M5 x 0.8	Ø 5.5	8.5	Ø 70	50	4.6	11	60	9	25 ±1
63	NY	M4 x 0.7	Ø 4.5	8	Ø 70	50	4.6	11	60	14	30 ±1
	NT	M5 x 0.8	Ø 5.5	8.5	Ø 70	50	4.6	14.5	60	12	30 ±1

Applicable motor dimensions

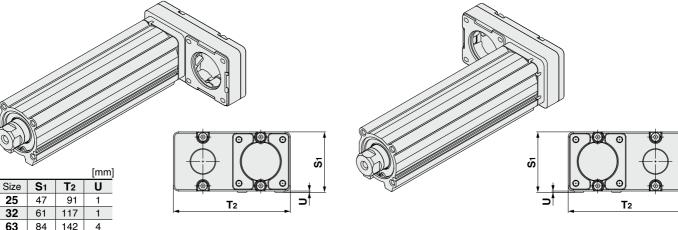


*1 Shaft type: D-cut shaft

Left side parallel motor type: LEY32L

63

Right side parallel motor type: LEY32R 63

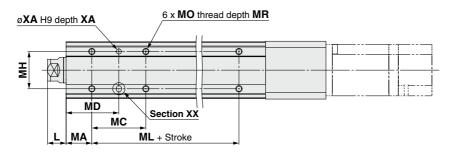


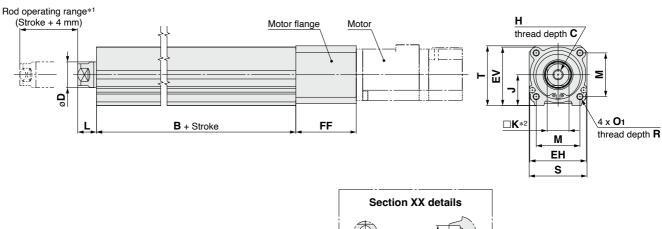
^{*} When the motor is mounted on the left or right side in parallel, the groove for auto switch on the side to which the motor is mounted is hidden.

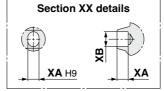


Refer to the "Motor Mounting" on page 181 for details about motor mounting and included parts.

LEY25, 32







- *1 Do not allow collisions at either end of the rod operating range at a speed exceeding "pushing speed." Additionally, when running the positioning operation, do not set within 2 mm of both ends.
- *2 The direction of rod end width across flats (□K) differs depending on the products.

Dime	nsions															[mm]
Size	Stroke range [mm]	В	С	D	EH	EV	Н	J	К	L	М	O 1	R	S	Т	U
25	30 to 100 105 to 400	89.5 114.5	13	20	44	45.5	M8 x 1.25	24	17	12.5	34	M5 x 0.8	8	45	46.5	1.5
32	30 to 100 105 to 500	96 126	13	25	51	56.5	M8 x 1.25	31	22	16.5	40	M6 x 1.0	10	60	61	1

* The L measurement is when the unit is at the retracted stroke end position.

										[mm]
Size	Stroke range [mm]	MA	МС	MD	МН	ML	МО	MR	XA	ХВ
	30 to 35		24			50				
	40 to 100		42	41		50				
25	105 to 120	20	42	29			M5 x 0.8	6.5	4	5
	125 to 200		59	49.5]	75				
	205 to 400		76 58							
	30 to 35		22	36		50				
	40 to 100		36	13		50				
32	105 to 120	25	36 43 53 51.5 70 60	30		M6 x 1.0	8.5	5	6	
	125 to 200				80					
	205 to 500									





Dimensions: In-line Motor

Refer to the "Motor Mounting" on page 181 for details about motor mounting and included parts.

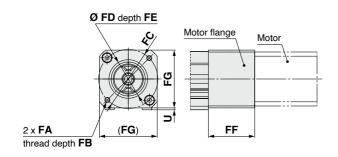
Motor flange dimensions

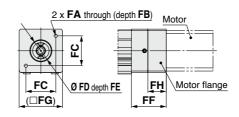
LEY25: NZ, NY, NX

LEY32: NZ, NY, NX, NW, NV, NU, NT

LEY25: NM1, NM2

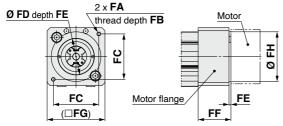
[mm]

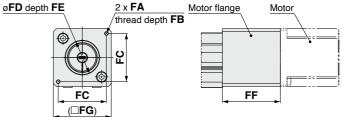




LEY32: NM1

LEY32: NM2





Motor Mounting, Applicable Motor Dimensions

Size		FA										
Size	Mounting type	Mounting type	Applicable motor	FB	FC	FD	FE (Max.)	FF	FG	FH	FJ	FK
	NZ	M4 x 0.7	Ø 4.5	7.5	Ø 46	30	3.7	47	45	-	8	25 ±1
	NY	M3 x 0.5	Ø 3.4	6	Ø 45	30	4	47	45	_	8	25 ±1
25	NX	M4 x 0.7	Ø 4.5	7.5	Ø 46	30	3.7	47	45	_	8	18 ±1
	NM1	Ø 3.4	МЗ	17	□31	22	2.5	36	45	19	5*1	18 to 25
NM2	Ø 3.4	МЗ	28	□31	22	2.5	47	45	30	6	20 ±1	
	NZ	M5 x 0.8	Ø 5.8	8.5	Ø 70	50	3.3	60	60	_	14	30 ±1
	NY	M4 x 0.7	Ø 4.5	8	Ø 70	50	3.3	60	60	_	11	30 ±1
	NX	M5 x 0.8	Ø 5.8	8.5	Ø 63	40	3.5	63	60	1	9	20 ±1
	NW	M5 x 0.8	Ø 5.8	8.5	Ø 70	50	3.3	60	60	_	9	25 ±1
32	NV	M4 x 0.7	Ø 4.5	8	Ø 63	40	3.3	63	60	_	9	20 ±1
	NU	M5 x 0.8	Ø 5.8	8.5	Ø 70	50	3.3	60	60	_	11	23 ±1
	NT	M5 x 0.8	Ø 5.8	8.5	Ø 70	50	3.3	60	60	_	12	30 ±1

□47.1 38.1

36

2

3.3

34

60 60

60 51.5

6.35*1

10

20 ±1

24 ±1

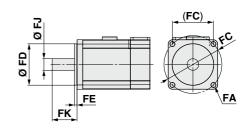
M4 x 0.7

M4 x 0.7

Ø 4.5

9.5

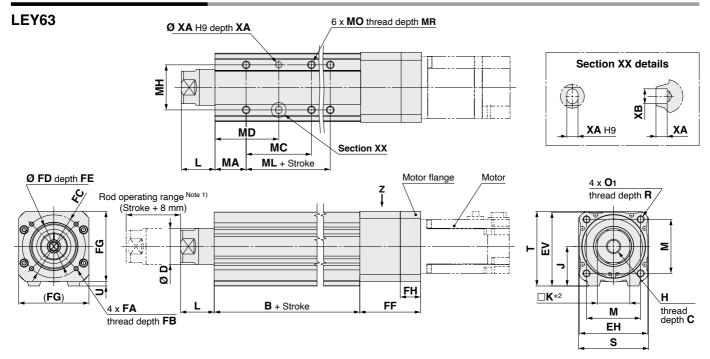
Applicable motor dimensions



NM2 *1 Shaft type: D-cut shaft

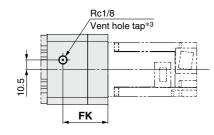
Refer to the "Motor Mounting" on page 182 for details about motor mounting and included parts.

Dimensions: In-line Motor

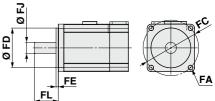


- *1 Do not allow collisions at either end of the rod operating range at a speed exceeding "pushing speed." Additionally, when running the positioning operation, do not set within 4 mm of both ends.
- *2 The direction of rod end width across flats (□K) differs depending on the products.

IP65 equivalent (Dust-tight/Water-jet-proof): LEY63DN□□-□P (View Z)



Applicable motor dimensions



*3 When using the dust-tight/water-jet-proof (IP65 equivalent), correctly mount the fitting and tubing to the vent hole tap, and then place the end of the tubing in an area not exposed to dust or water. The fitting and tubing should be provided separately by the customer. Select [Applicable tubing O.D.: Ø 4 or more, Connection thread: Rc1/8].

Dimensions

Dillie	initerisions [mm]															
Size	Stroke range [mm]	В	С	D	EH	EV	Н	J	K	L	М	O 1	R	s	Т	U
	50 to 200	123														
63	205 to 500	158	21	40	76	82	M16 x 2	44	36	33.4	60	M8 x 1.25	16	78	83	5
	505 to 800	193														

* The L measurement is when the unit is at the retracted stroke end position.

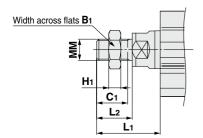
										[mm]
Size	Stroke range [mm]	MA	МС	MD	МН	ML	МО	MR	XA	ХВ
	50 to 70		24	50						
	75 to 120		45	60.5	44	65				
63	125 to 200		58	67			M8 x 1.25	10	6	7
	205 to 500		96		100					
	505 to 800		86			135	35			

Wotor	wounting	j, Applica	ible Moto	r Dimen	sions								[mm]
Size	Mounting	F	Α	FB	FC	FD	FE	FF	FG	FH	FK	FJ	FL
Size	type	Mounting type	Applicable motor	ГВ	гС	ΓD	(Max.)	ГГ	ru	ГП	FK	ΓU	FL
	NZ	M5 x 0.8	Ø 5.5	10	Ø 70	50	3.5	67.7	78	22.5	50	14	30 ±1
	NY	M4 x 0.7	Ø 4.5	8	Ø 70	50	3.5	67.7	78	22.5	50	14	30 ±1
	NX	M5 x 0.8	Ø 5.5	10	Ø 63	40	3.5	72.7	78	27.5	55	9	20 ±1
63	NW	M5 x 0.8	Ø 5.5	10	Ø 70	50	3.5	67.7	78	22.5	50	9	25 ±1
	NV	M4 x 0.7	Ø 4.5	8	Ø 63	40	3.5	72.7	78	27.5	55	9	20 ±1
	NU	M5 x 0.8	Ø 5.5	10	Ø 70	50	3.5	67.7	78	22.5	50	11	23 ±1
	NT	M5 x 0.8	Ø 5.5	10	Ø 70	50	3.5	67.7	78	22.5	50	12	30 ±1



Dimensions

25 A Rod end male thread: LEY32□□B-□□M 63 C



- * Refer to the Web Catalogue for details on the rod end nut and mounting bracket.
- * Refer to the precautions on pages 194 and 195 when mounting end brackets such as knuckle joint or workpieces.

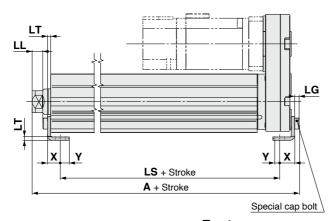
							[mm]
Ī	Size	B ₁	C ₁	H ₁	L ₁	L2	MM
	25	22	20.5	8	36	23.5	M14 x 1.5
Ī	32	22	20.5	8	40	23.5	M14 x 1.5
	63	27	26	11	72.4	39	M18 x 1.5

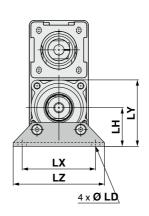
* The L₁ measurement is when the unit is at the retracted stroke end position.

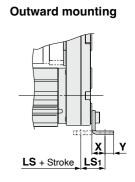












	Foot [m										[mm]				
	Size	Stroke range [mm]	A	LS	LS₁	LL	LD	LG	LH	LT	LX	LY	LZ	х	Y
	25	30 to 100	134.6	98.8	19.8	6.4	6.6	3.5	30	2.6	57	51.5	71	11.2	5.8
	25	105 to 400	159.6	123.8											
	32	30 to 100	153.7	114	19.2	9.3	6.6	4	36	3.2	76	61.5	90	11.2	7
	32	105 to 500	183.7	144											
		50 to 200	196.8	133.2	25.2	2 25.2			50	3.2	95	88	110	14.2	8
	63	205 to 500	231.8	168.2			9	5							
		505 to 800	266.8	203.2											

Material: Carbon steel (Chromating)

- * The A and LL measurements are when the unit is at the retracted stroke end position.
- * When the motor mounting is the right or left side parallel type, the head side foot bracket should be mounted outward.

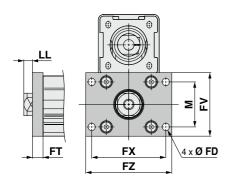


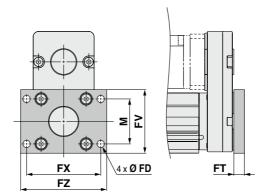


Dimensions

25 A Rod flange: LEY32□□B-□□□F 63 C

Head flange: LEY25□□B-□□□G





* The head flange type is not available for the in-line type and the LEY32/63.

Included parts

· Flange

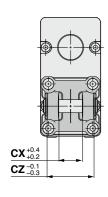
Body mounting bolt

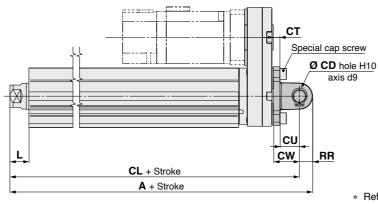
Rod/Head Flange [mm]											
Size	FD	FT	FV	FX	FZ	LL	М				
25	5.5	8	48	56	65	4.5	34				
32	5.5	8	54	62	72	8.5	40				
63	9	9	80	92	108	24.4	60				

Material: Carbon steel (Nickel plating)

* The LL measurement is when the unit is at the retracted stroke end position.

Double clevis: LEY32□□B-□□□D





Included parts

· Double clevis · Body mounting bolt

· Clevis pin

· Retaining ring

* Refer to the Web Catalogue for details on the rod end nut and mounting bracket.

Double Clevis [mn													
Size	Stroke range [mm]	Α	CL	CD	СТ	CU	cw	сх	cz	L	RR		
25	30 to 100	158.5	148.5	10	5	14	20	18	36	12.5	10		
25	105 to 200	183.5	173.5										
32	30 to 100	178.5	168.5	10	6	14	22	18	36	16.5	10		
32	105 to 200	208.5	198.5										
63	50 to 200	232.6	218.6	14	_	00	00	00	44	00.4			
03	205 to 300	267.6	253.6	14	8	22	30	22	44	33.4	14		

Material: Cast iron (Coating)

^{*} The A, CL, and L measurements are when the unit is at the retracted stroke end position.