

Electric Actuators

LEPY/LEPS Series



Miniature Rod Type / Miniature Slide Table Type

Step Motor (Servo/24 VDC)

Compact and lightweight

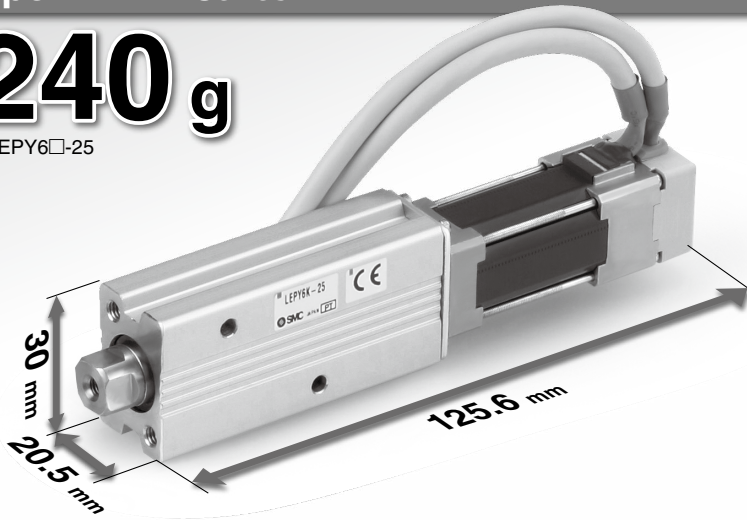
- Maximum pushing force: **50 N**
- Positioning repeatability: ± 0.05 mm
- Can set position, speed and force (64 points)

Rod Type **LEPY Series**

Size: 6, 10 ▶ p. 485

Weight **240 g**

* LEPY6□-25



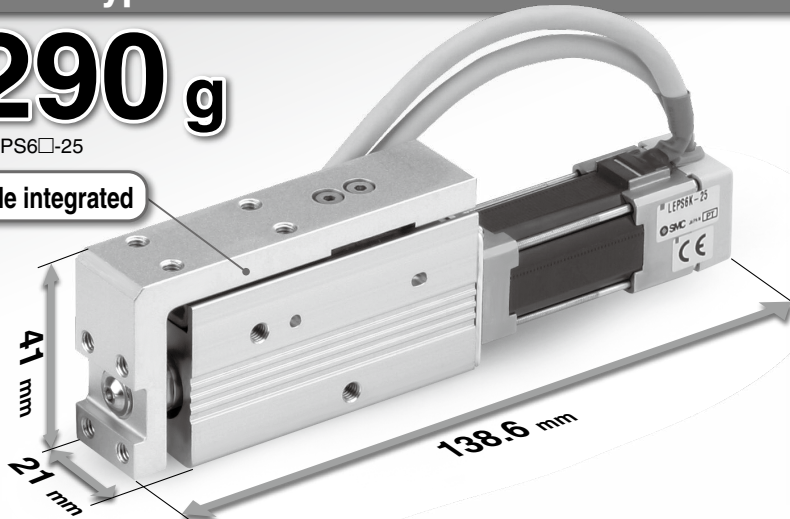
Slide Table Type **LEPS Series**

Size: 6, 10 ▶ p. 495

Weight **290 g**

* LEPS6□-25

Linear guide integrated



Step Motor (Servo/24 VDC) **Controllers/Drivers**

▶ p. 684

▶ Step data input type

JXC51/61 Series

- 64 positioning points
- Input using controller setting kit or teaching box



▶ EtherCAT®/EtherNet/IP™/PROFINET/DeviceNet™/IO-Link/CC-Link direct input type

JXCE1/91/P1/D1/L1/M1 Series



▶ Programless type **LECP1 Series**

- 14 positioning points
- Control panel setting



▶ Pulse input type **LECPA Series**

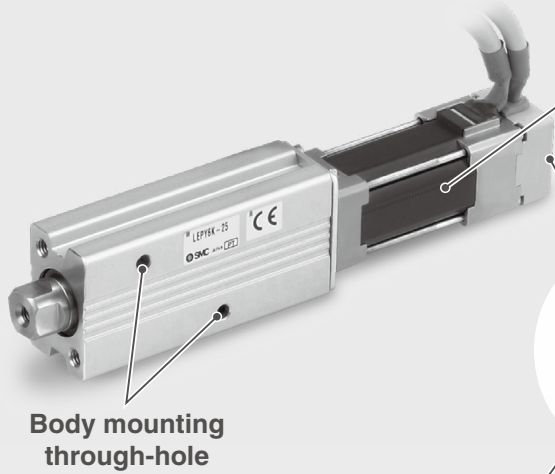


- LEFS
- LEFB
- LEJS
- LEJB
- LEL
- LEM
- LEY
- LEYG
- LES
- LESH
- LEPY
- LEPS
- LER
- LEH
- LEY-X5
- 11-LEFS
- 11-LEJS
- 25A-
- LEC□
- JXC□
- LECS□
- LECS□-T
- LECY□
- Motorless
- LAT3

Compact and lightweight

Rod Type **LEPY Series**

Weight **240 g**
(LEPY6□-25)



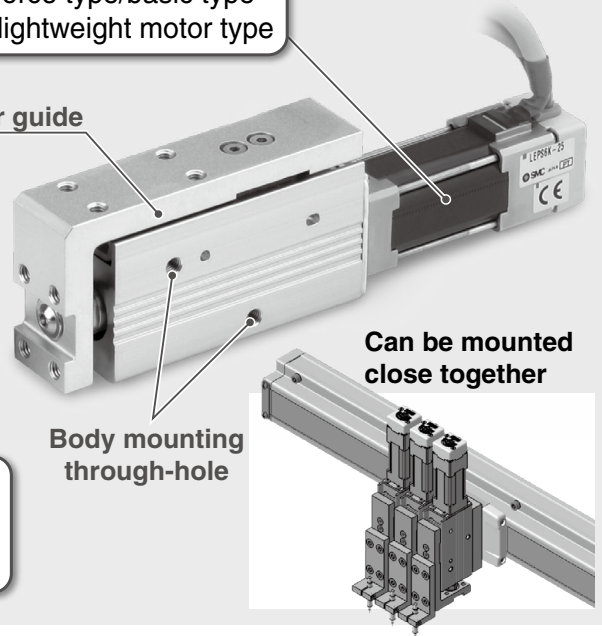
Motor type can be selected to suit the application.
(Size 10 only)

- High pushing force type/basic type
- Compact and lightweight motor type

Linear guide

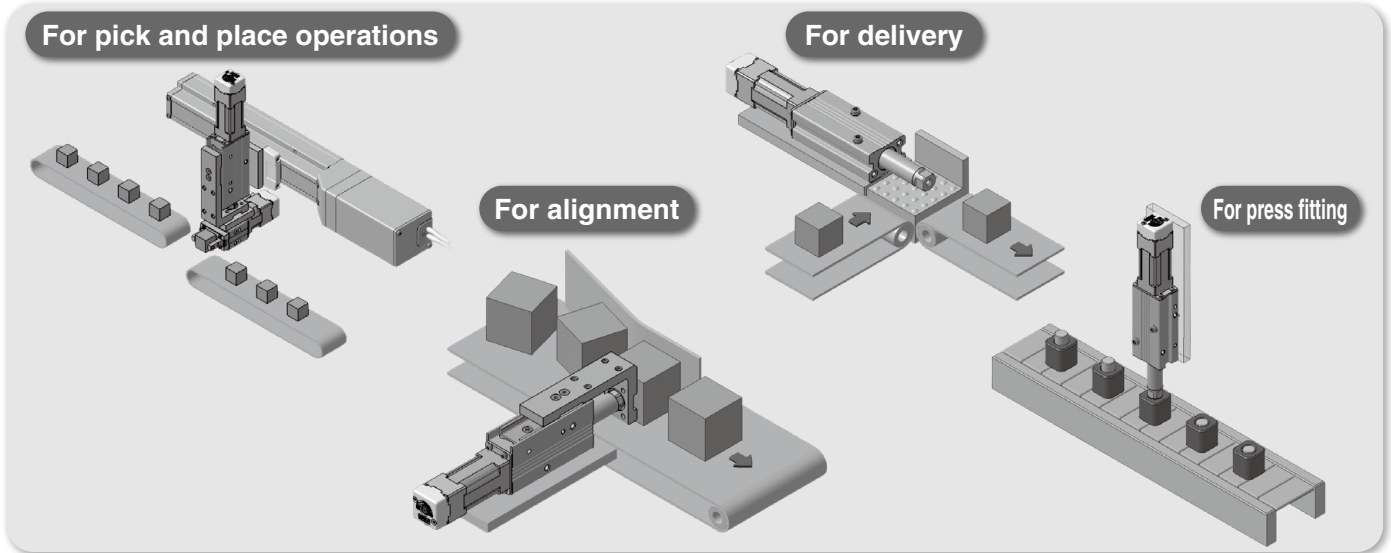
Slide Table Type **LEPS Series**

Weight **290 g**
(LEPS6□-25)



Manual override screw
For rod/table operation
Adjustment operation is possible when the power is OFF.

Application Examples



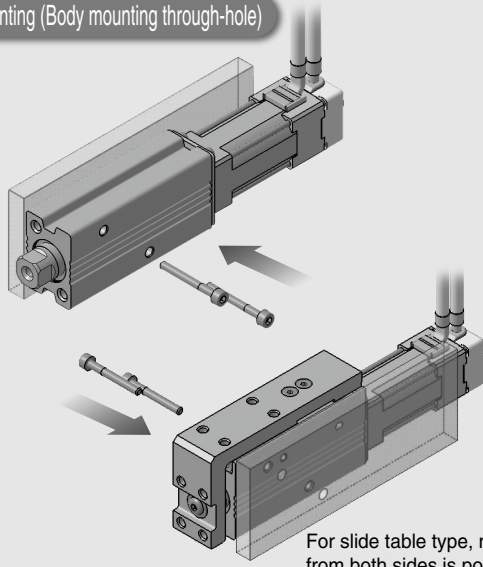
Variations

Type	Size	Screw lead	Pushing force [N]		Max. work load [kg] (Horizontal)		Max. work load [kg] (Vertical)		Max. speed [mm/s] (Horizontal)		Stroke [mm]	Page
			Basic	Compact	Basic	Compact	Basic	Compact	Basic	Compact		
Rod type LEPY Series	6	4	14 to 20	—	2.0	—	0.5	—	150	—	25 50 75	485
		8	7 to 10	—	1.0	—	0.25	—	300	—		
	10	5	25 to 50	24 to 40	6.0	4.0	1.5	1.5	200	200		
		10	12.5 to 25	12 to 20	3.0	2.0	1.0	1.0	350	350		
Slide table type LEPS Series	6	4	14 to 20	—	1.0	—	0.5	—	150	—	25 50	495
		8	7 to 10	—	0.75	—	0.25	—	300	—		
	10	5	25 to 50	24 to 40	2.0	2.0	1.5	1.5	200	200		
		10	12.5 to 25	12 to 20	1.5	1.5	1.0	1.0	350	350		

Mounting Variations

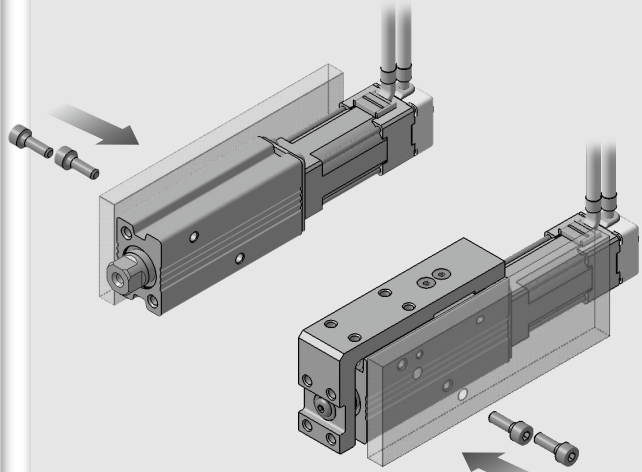
Mounting from various directions

Side mounting (Body mounting through-hole)



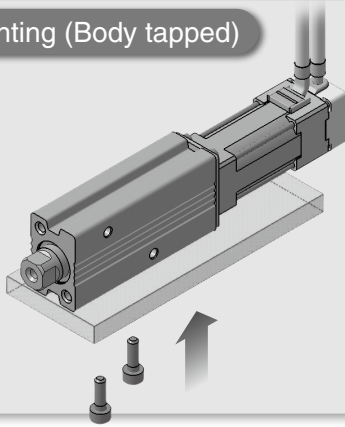
For slide table type, mounting from both sides is possible.

Side mounting (Body tapped)

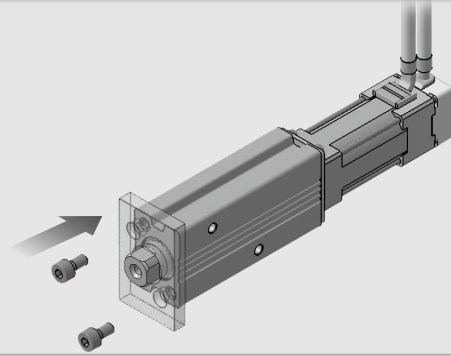


For slide table type, body tapped from both sides.

Bottom mounting (Body tapped)



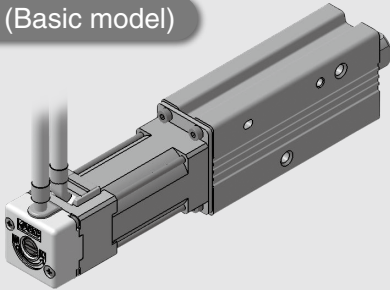
Axial mounting * Rod type only (Body tapped)



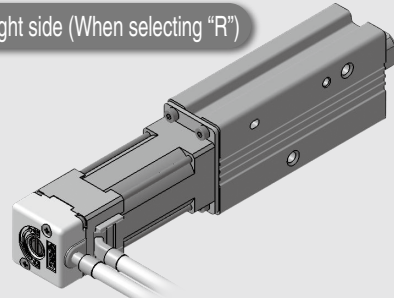
Motor Cable Entry Direction

Can be selected from 4 directions

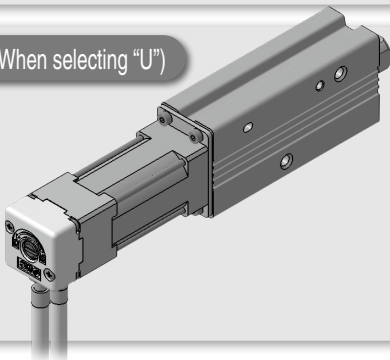
Top entry (Basic model)



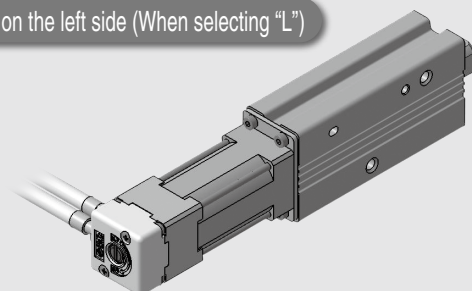
Entry on the right side (When selecting "R")



Bottom entry (When selecting "U")



Entry on the left side (When selecting "L")



LEFS
LEFB

LEJS
LEJB

LEL

LEM

LEY
LEYG

LES
LESH

LEPY
LEPS

LER

LEH

LEY-X5

11-LEFS

11-LEJS

25A-

LEC

JXC

LECS
LECS-T

LECY

Motorless

LAT3

Step Motor (Servo/24 VDC)

Electric Actuator/Miniature Rod Type *LEPY Series*



Model Selection	p. 485
How to Order	p. 489
Specifications	p. 492
Construction	p. 492
Dimensions	p. 493

Step Motor (Servo/24 VDC)

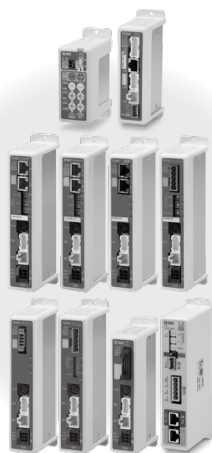
Electric Actuator/Miniature Slide Table Type *LEPS Series*



Model Selection	p. 495
How to Order	p. 501
Specifications	p. 504
Construction	p. 504
Dimensions	p. 505

Specific Product Precautions	p. 507
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Step Motor (Servo/24 VDC) Controller



Step Data Input Type/ <i>JXC51/61 Series</i>	p. 706-1
EtherCAT®/EtherNet/IP™/PROFINET/DeviceNet™/IO-Link Direct Input Type/ <i>JXCE1/91/P1/D1/L1 Series</i>	p. 741
Gateway Unit/ <i>LEC-G Series</i>	p. 715
Programless Controller/ <i>LECP1 Series</i>	p. 719
Step Motor Driver/ <i>LECPA Series</i>	p. 731
Actuator Cable	p. 758
Communication Cable for Controller Setting/ <i>LEC-W2A-□</i>	p. 760
Teaching Box/ <i>LEC-T1</i>	p. 761

3-Axis Step Motor Controller



EtherNet/IP™ Type/ <i>JXC92 Series</i>	p. 747
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4-Axis Step Motor (Servo/24 VDC) Controller



Parallel I/O Type/ <i>JXC73/83 Series</i>	p. 749
EtherNet/IP™ Type/ <i>JXC93 Series</i>	p. 749

Miniature Rod Type *LEPY Series*

Step Motor (Servo/24 VDC)

p. 489



Miniature Slide Table Type *LEPS Series*

Step Motor (Servo/24 VDC)

p. 501



Step Motor/Servo Motor Controller/Driver p. 684

LEFS
LEFB

LEJS
LEJB

LEL

LEM

LEY
LEYG

LES
LESH

LEPY
LEPS

LER

LEH

LEY-X5

11-LEFS

11-LEJS

25A-

LEC

JXC

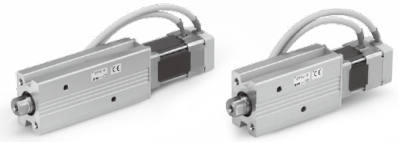
LECS
LECS-T

LECY

Motorless

LAT3

Model Selection



LEPY Series ▶ p. 489

Selection Procedure

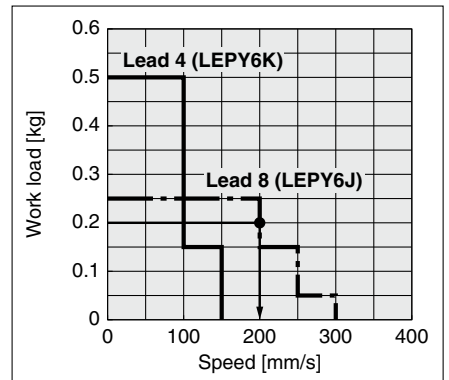
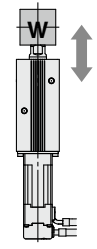
Positioning Control Selection Procedure



Selection Example

Operating conditions

- Workpiece mass: 0.2 [kg]
- Speed: 200 [mm/s]
- Acceleration/Deceleration: 3000 [mm/s²]
- Stroke: 40 [mm]
- Workpiece mounting condition: Vertical upward downward transfer



<Speed-Work load graph>
(LEPY6/Step motor)

Step 1 Check the work load-speed. <Speed-Work load graph>

Select a model based on the workpiece mass and speed while referencing the speed-work load graph.

Selection example) The LEPY6J can be temporarily selected as a possible candidate based on the graph shown on the right side.

* It is necessary to mount a guide outside the actuator when used for horizontal transfer. When selecting the target model, refer to page 380 for the horizontal work load in the specifications, and page 492 for the precautions.

Step 2 Check the cycle time.

Calculate the cycle time using the following calculation method.

Cycle time:

T can be found from the following equation.

$$T = T1 + T2 + T3 + T4 \text{ [s]}$$

- T1: Acceleration time and T3: Deceleration time can be found by the following equation.

$$T1 = V/a1 \text{ [s]} \quad T3 = V/a2 \text{ [s]}$$

- T2: Constant speed time can be found from the following equation.

$$T2 = \frac{L - 0.5 \cdot V \cdot (T1 + T3)}{V} \text{ [s]}$$

- T4: Settling time varies depending on the conditions such as motor types, load, and in position of the step data. Therefore, calculate the settling time while referencing the following value.

$$T4 = 0.2 \text{ [s]}$$

Calculation example)

T1 to T4 can be calculated as follows.

$$T1 = V/a1 = 200/3000 = 0.067 \text{ [s]}, \quad T3 = V/a2 = 200/3000 = 0.067 \text{ [s]}$$

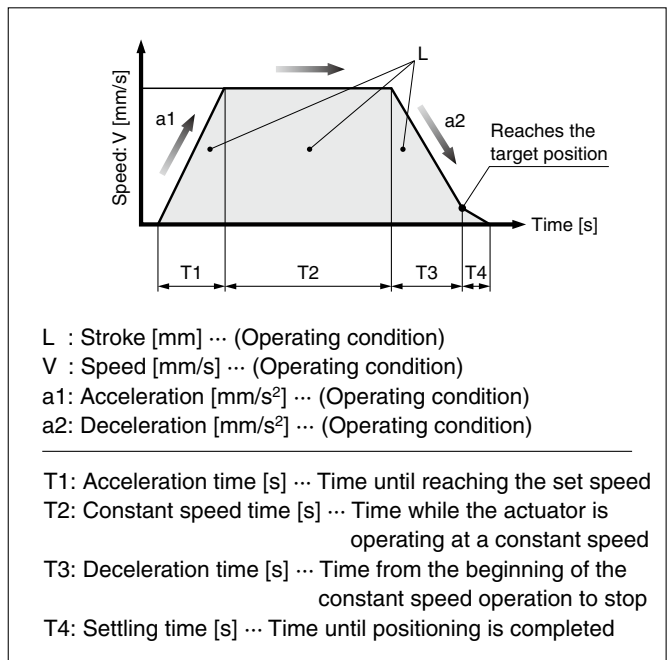
$$T2 = \frac{L - 0.5 \cdot V \cdot (T1 + T3)}{V} = \frac{40 - 0.5 \cdot 200 \cdot (0.067 + 0.067)}{200} = 0.133 \text{ [s]}$$

$$T4 = 0.2 \text{ [s]}$$

The cycle time can be found as follows.

$$T = T1 + T2 + T3 + T4 = 0.067 + 0.133 + 0.067 + 0.2 = 0.467 \text{ [s]}$$

Based on the above calculation result, the LEPY6J-50 should be selected.



Selection Procedure

Pushing Control Selection Procedure

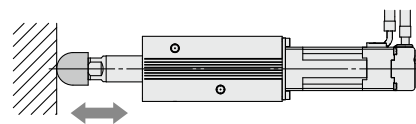


* The duty ratio is a ratio of the operation time in one cycle.

Selection Example

Operating conditions

- Mounting condition: Horizontal (pushing)
- Jig weight: 0.05 [kg]
- Pushing force: 30 [N]
- Duty ratio: 70 [%]
- Speed: 150 [mm/s]
- Stroke: 40 [mm]



Step 1 Check the duty ratio.

<Conversion table of pushing force–duty ratio>

Select the [Pushing force] from the duty ratio while referencing the conversion table of pushing force–duty ratio.

Selection example)

Based on the table below,

- Duty ratio: 70 [%]

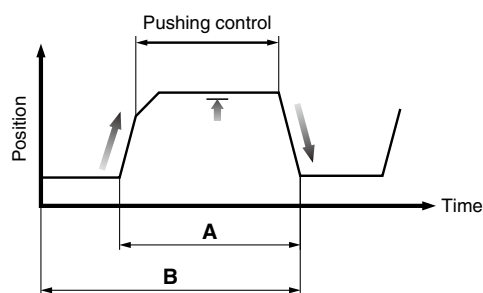
The pushing force set value will be 80 [%].

<Conversion table of pushing force–duty ratio> (LEPY10L)

Pushing force set value [%]	Duty ratio [%]	Continuous pushing time [min]
70 or less	100	—
80	70	10
100	50	5

* [Pushing force set value] is one of the step data input to the controller.

* [Continuous pushing time] is the time that the actuator can continuously keep pushing.



$$\text{Duty ratio} = A/B \times 100 [\%]$$

Step 2 Check the pushing force.

<Pushing force set value–Force graph>

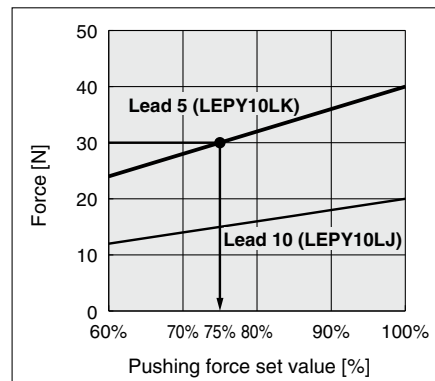
Select a model based on the pushing force set value and force while referencing the pushing force set value–force graph.

Selection example)

Based on the graph shown on the right side,

- Pushing force set value: 75 [%]
- Pushing force: 30 [N]

The LEPY10LK can be temporarily selected as a possible candidate.



<Pushing force set value–Force graph> (LEPY10L)

Step 3 Check the lateral load on the rod end.

<Allowable lateral load on the rod end>

Confirm the allowable lateral load on the rod end of the actuator: LEPY10L, which has been selected temporarily while referencing the allowable lateral load on the rod end.

Selection example)

Based on the table below,

- Jig weight: 0.05 [kg] ≈ 0.5 [N]

The lateral load on the rod end is within the allowable range.

<Allowable lateral load on the rod end>

Model	Allowable lateral load on the rod end [N]
LEPY6 (Basic)	0.50
LEPY10 (Basic)	1.0
LEPY10L (Compact)	1.0

Based on the above calculation result, the LEPY10LK-50 should be selected.

- LEFS
- LEFB
- LEJS
- LEJB
- LEL
- LEM
- LEY
- LEYG
- LES
- LESH
- LEPY
- LEPS
- LER
- LEH
- LEH
- LEY-X5
- 11-LEFS
- 11-LEJS
- 11-LEJS
- 25A-
- LEC
- JXC
- LECS
- LECS-T
- LECY
- Motorless
- LAT3

LEPY Series

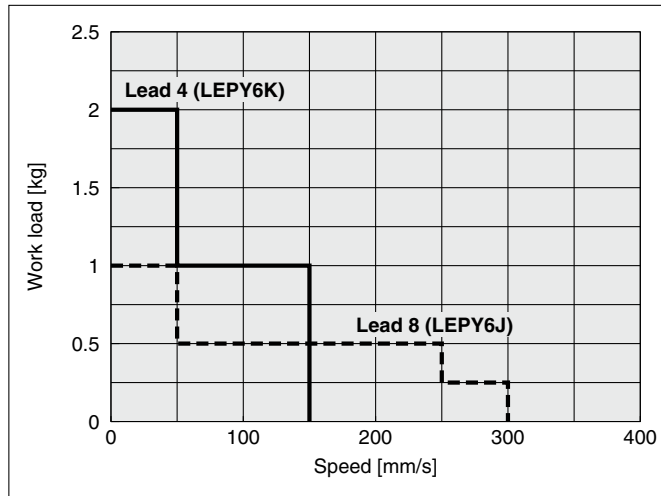
Step Motor (Servo/24 VDC)

Speed-Work Load Graph (Guide)

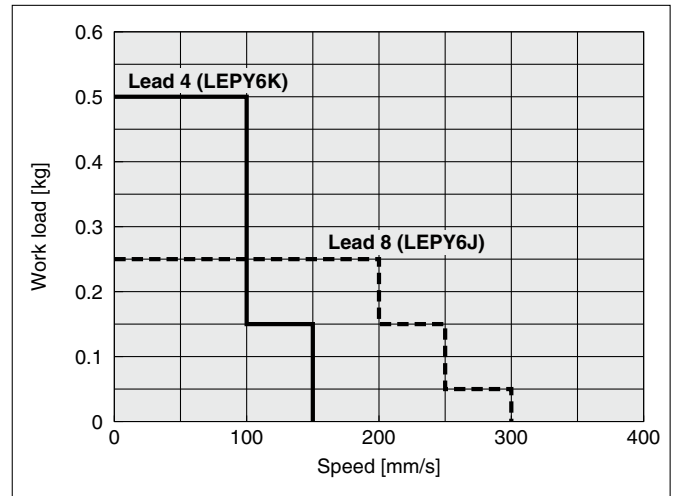
* The following graphs show the values when moving force is 150%.

LEPY6 (Basic)

Horizontal

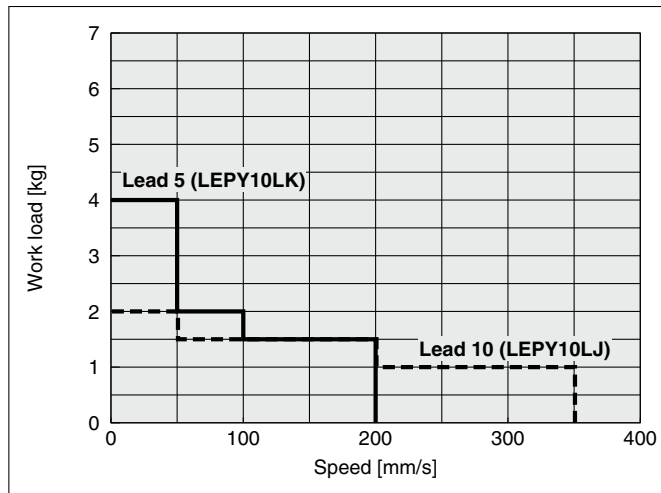


Vertical

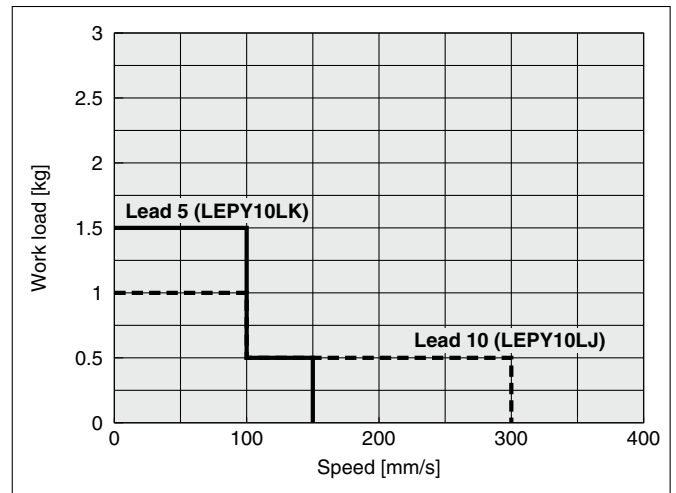


LEPY10L (Motor size: Compact)

Horizontal

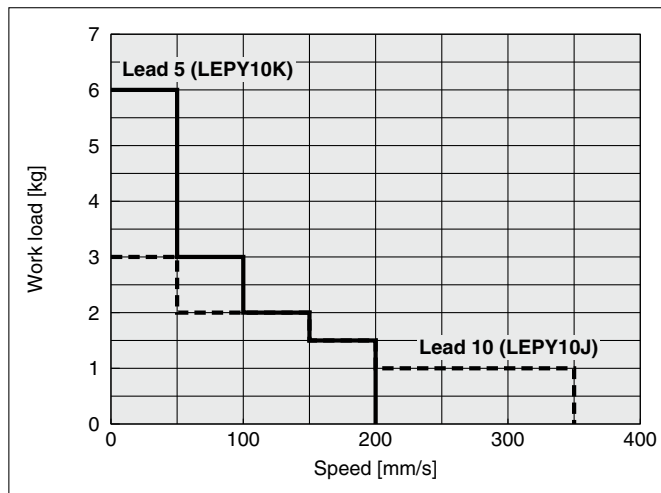


Vertical

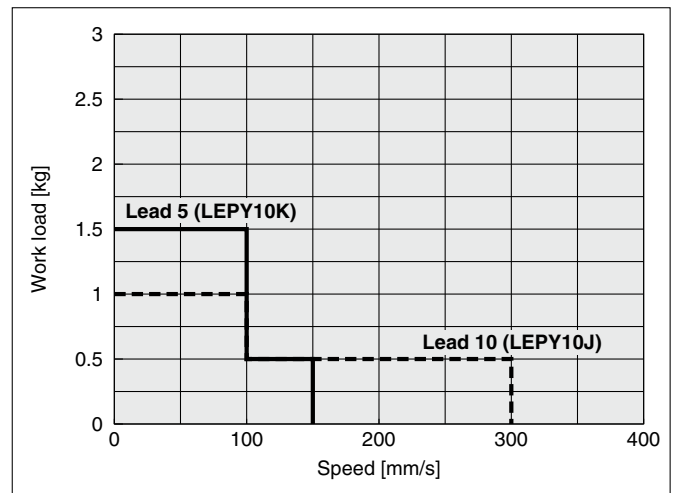


LEPY10 (Motor size: Basic)

Horizontal



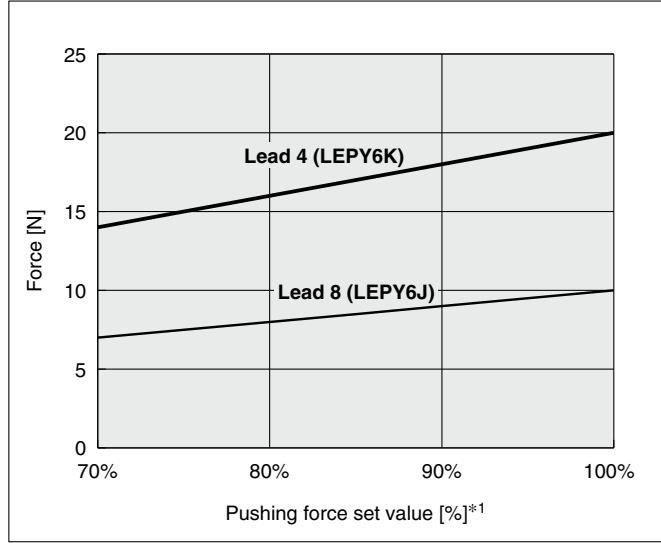
Vertical



* The maximum value of the work load for the positioning operation. An external guide is necessary to support the load. The actual work load and transfer speed change according to the condition of the external guide.

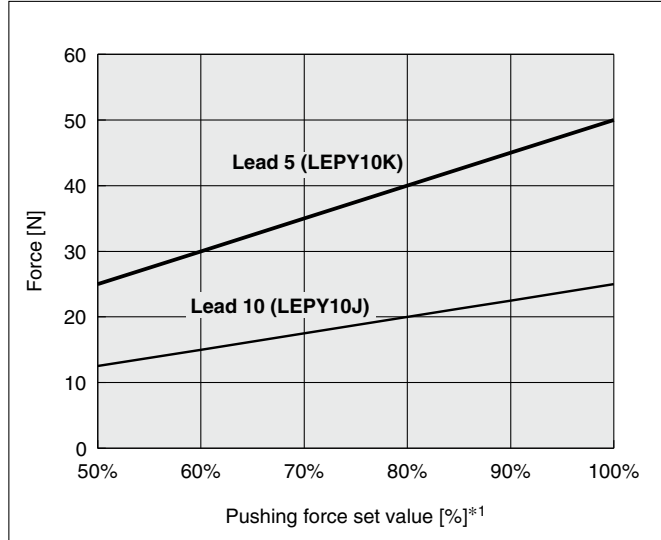
Pushing Force Set Value–Force Graph (Guide)

LEPY6 (Basic)



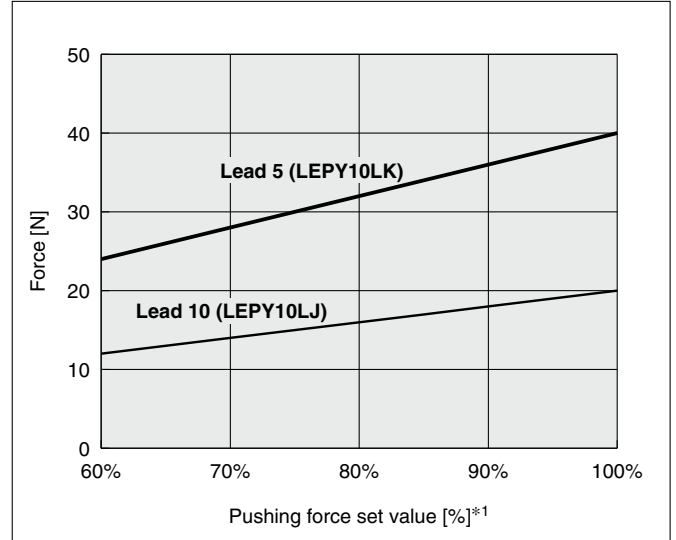
Pushing force set value [%]	Duty ratio [%]	Continuous pushing time [min]
70	100	—
80	70	10
100	50	5

LEPY10 (Basic)



Pushing force set value [%]	Duty ratio [%]	Continuous pushing time [min]
60 or less	100	—
70	30	3
100	15	1

LEPY10L (Compact)

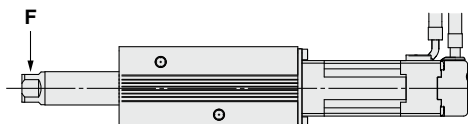


Pushing force set value [%]	Duty ratio [%]	Continuous pushing time [min]
70 or less	100	—
80	70	10
100	50	5

*1 Set values for the controller

Allowable Lateral Load on the Rod End

Model	Allowable lateral load on the rod end [N]
LEPY6 (Basic)	0.50
LEPY10 (Basic)	1.0
LEPY10L (Compact)	1.0



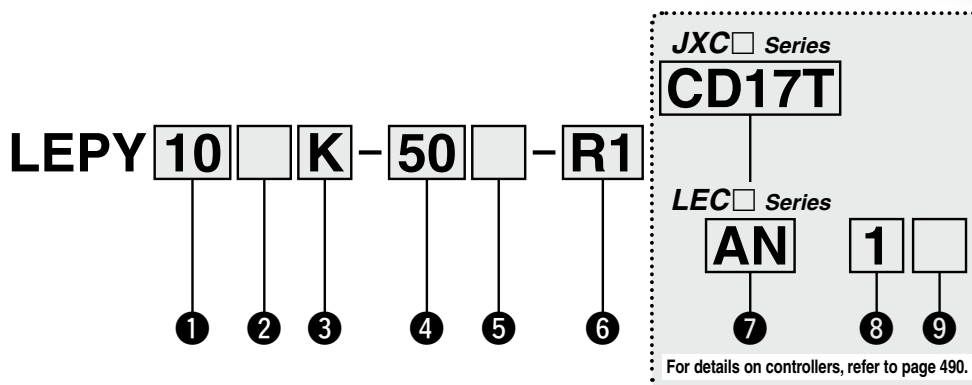
- LEFS
- LEFB
- LEJS
- LEJB
- LEL
- LEM
- LEY
- LEYG
- LES
- LESH
- LEPY
- LEPS
- LER
- LEH
- LEY-X5
- 11-LEFS
- 11-LEJS
- 25A-
- LEC
- JXC
- LECS
- LECS-T
- LECY
- Motorless
- LAT3

Electric Actuator Miniature Rod Type

LEPY Series LEPY6, 10



How to Order



① Size

6
10

② Motor size

Symbol	Motor size	Applicable size
Nil	Basic	6, 10
L	Compact	10

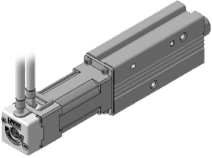
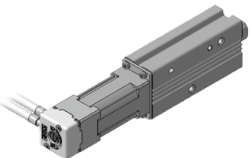
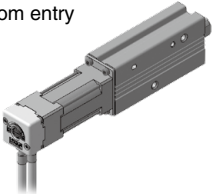
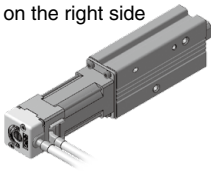
③ Lead screw type [mm]

Symbol	Screw lead	
	LEPY6	LEPY10
K	4	5
J	8	10

④ Stroke [mm]

Symbol	Stroke
25	25
50	50
75	75

⑤ Motor cable mounting direction

Nil	Top entry 	L	Entry on the left side 
	Bottom entry 		Entry on the right side 
U		R	

⑥ Actuator cable type/length*2

Standard cable [m]		Robotic cable [m]			
Nil	None	R1	1.5	RA	10*1
S1	1.5	R3	3	RB	15*1
S3	3	R5	5	RC	20*1
S5	5	R8	8*1		

JXC Series (For details, refer to page 491.)

7 Controller

Nil	Without controller
C□1□□	With controller

CD17T

(Communication protocol/Input/Output)

E	EtherCAT®	L	IO-Link
9	EtherNet/IP™	M	CC-Link Ver 1.10
P	PROFINET	5	Parallel input (NPN)
D	DeviceNet™	6	Parallel input (PNP)

Interface

Mounting

7	Screw mounting
8*7	DIN rail

• For single axis



Communication plug connector I/O cable*8

Symbol	Type	Applicable interface
Nil	Without accessory	—
S	Straight type communication plug connector	DeviceNet™
T	T-branch type communication plug connector	CC-Link Ver 1.10
1	I/O cable (1.5 m)	Parallel input (NPN) Parallel input (PNP)
3	I/O cable (3 m)	
5	I/O cable (5 m)	

LEC Series (For details, refer to page 491.)

AN 1 □

7 Controller/Driver type*3

Nil	Without controller/driver	
1N	LECP1 (Programless type)	NPN
1P		PNP
AN	LECPA*4 (Pulse input type)	NPN
AP		PNP

8 I/O cable length*5

Nil	Without cable (Without communication plug connector)	
1	1.5 m	
3	3 m*6	
5	5 m*6	

9 Controller/Driver mounting

Nil	Screw mounting
D	DIN rail*7



- *1 Produced upon receipt of order (Robotic cable only)
- *2 The standard cable should only be used on fixed parts. For use on moving parts, select the robotic cable. Refer to page 758 if only the actuator cable is required.
- *3 For details on controllers/drivers and compatible motors, refer to the compatible controllers/drivers on the next page.
- *4 When pulse signals are open collector, order the current limiting resistor (LEC-PA-R-□) on page 736 separately.
- *5 When "Without controller/driver" is selected for controller/driver types, I/O cable cannot be selected. Refer to page 724 (For LECP1), or page 736 (For LECPA) if I/O cable is required.

- *6 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
- *7 The DIN rail is not included. It must be ordered separately.
- *8 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 LEP 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.

[UL-compliant products (For the LEC series)]

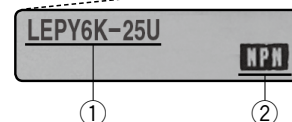
When compliance with UL is required, the electric actuator and controller/driver should be used with a UL1310 Class 2 power supply.

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

Confirm that the combination of the controller/driver and the 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>




LEFS
LEFB
LEJS
LEJB
LEL
LEM
LEYG
LEYS
LESH
LEPS
LER
LEH
LEY-X5
11-LEFS
11-LEJS
25A-
LEC□
JXC□
LECS□
LECS□-T
LECY□
Motorless
LAT3

LEPY Series

Step Motor (Servo/24 VDC)

Compatible Controllers/Drivers

Type	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 points					
Power supply voltage	24 VDC					
Reference page	741					

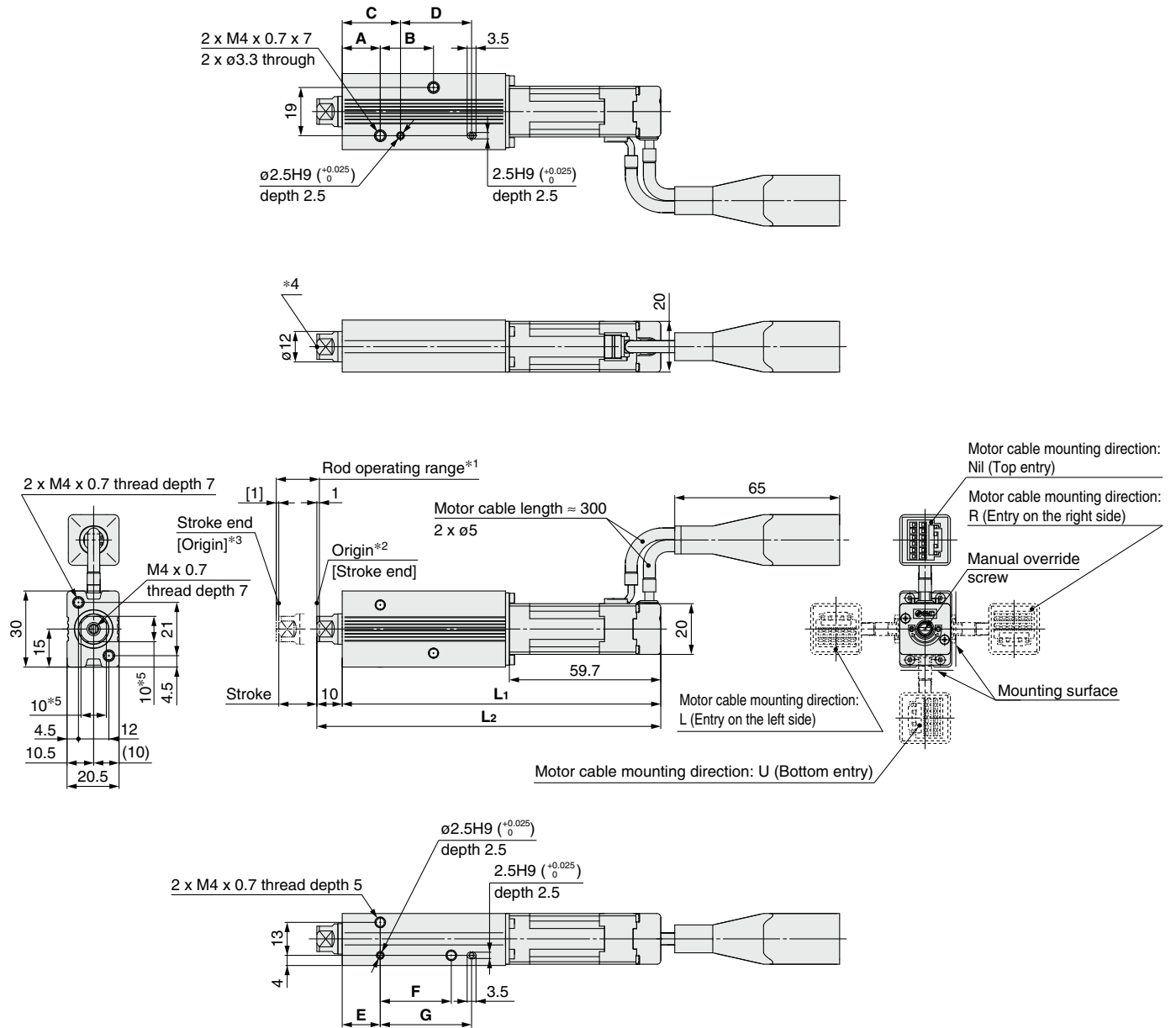
Type	Step data input type 	Programless type 	Pulse input type 
Series	JXC51 JXC61	LECP1	LECPA
Features	Parallel I/O	Capable of setting up operation (step data) without using a PC or teaching box	Operation by pulse signals
Compatible motor	Step motor (Servo/24 VDC)		
Max. number of step data	64 points	14 points	—
Power supply voltage	24 VDC		
Reference page	706-1	719	731

LEPY Series

Step Motor (Servo/24 VDC)

Dimensions

LEPY6



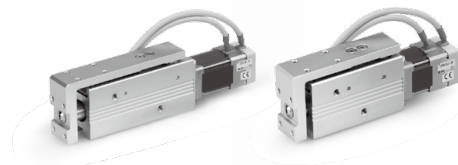
- *1 This is the range within which the rod can move when it returns to origin.
Make sure workpieces mounted on the rod do not interfere with the workpieces and facilities around the rod.
- *2 Position after returning to origin
- *3 [] for when the direction of return to origin has changed
- *4 Do not apply rotational torque to the rod end.
- *5 The direction of rod end width across flats (□10) differs depending on the products.

Dimensions

[mm]

Model	L ₁	L ₂	A	B	C	D	E	F	G
LEPY6□-25□	125.6	135.6	15	21	23	28	15	28	36
LEPY6□-50□	156.6	166.6	22	45	30	52	22	52	60
LEPY6□-75□	188.6	198.6	29	70	37	77	29	77	85

Model Selection



LEPS Series ▶ p. 501

Selection Procedure

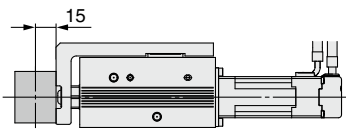
Positioning Control Selection Procedure



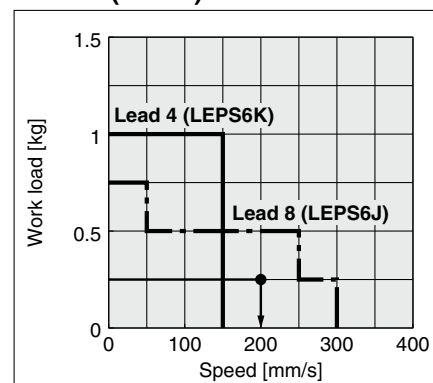
Selection Example

Operating conditions

- Workpiece mass: 0.25 [kg]
- Speed: 200 [mm/s]
- Acceleration/Deceleration: 3000 [mm/s²]
- Stroke: 20 [mm]
- Workpiece mounting condition: Horizontal transfer



LEPS6 (Basic)



<Speed-Work load graph>
(LEPS6/Step motor)

Step 1 Check the work load-speed. <Speed-Work load graph>

Select a model based on the workpiece mass and speed while referencing the speed-work load graph.

Selection example) The **LEPS6J** can be temporarily selected as a possible candidate based on the graph shown on the right side.

Step 2 Check the cycle time.

Calculate the cycle time using the following calculation method.

Cycle time:

T can be found from the following equation.

$$T = T1 + T2 + T3 + T4 \text{ [s]}$$

- T1: Acceleration time and T3: Deceleration time can be found by the following equation.

$$T1 = V/a1 \text{ [s]} \quad T3 = V/a2 \text{ [s]}$$

- T2: Constant speed time can be found from the following equation.

$$T2 = \frac{L - 0.5 \cdot V \cdot (T1 + T3)}{V} \text{ [s]}$$

- T4: Settling time varies depending on the conditions such as motor types, load and in position of the step data. Therefore, calculate the settling time while referencing the following value.

$$T4 = 0.2 \text{ [s]}$$

Calculation example)

T1 to T4 can be calculated as follows.

$$T1 = V/a1 = 200/3000 = 0.067 \text{ [s]}, \quad T3 = V/a2 = 200/3000 = 0.067 \text{ [s]}$$

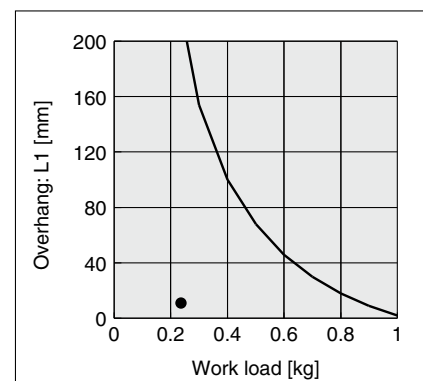
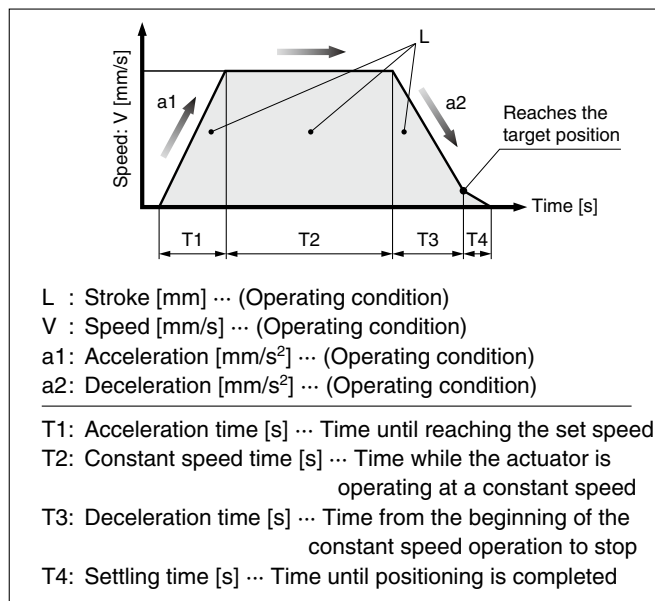
$$T2 = \frac{L - 0.5 \cdot V \cdot (T1 + T3)}{V} = \frac{20 - 0.5 \cdot 200 \cdot (0.067 + 0.067)}{200} = 0.033 \text{ [s]}$$

$$T4 = 0.2 \text{ [s]}$$

The cycle time can be found as follows.

$$T = T1 + T2 + T3 + T4 = 0.067 + 0.033 + 0.067 + 0.2 = 0.367 \text{ [s]}$$

Step 3 Check the guide allowable moment.



Guide allowable moment

Based on the above calculation result, the **LEPS6J-25** should be selected.

Selection Procedure

Pushing Control Selection Procedure

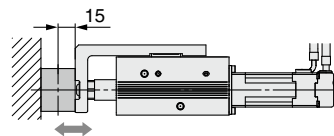


* The duty ratio is a ratio of the operation time in one cycle.

Selection Example

Operating conditions

- Mounting condition: Horizontal (pushing)
- Jig weight: 0.4 [kg]
- Pushing force: 30 [N]
- Duty ratio: 70 [%]
- Speed: 150 [mm/s]
- Stroke: 40 [mm]



Step 1 Check the duty ratio. <Conversion table of pushing force–duty ratio>

Select the [Pushing force] from the duty ratio while referencing the conversion table of pushing force–duty ratio.

Selection example)

Based on the table below,

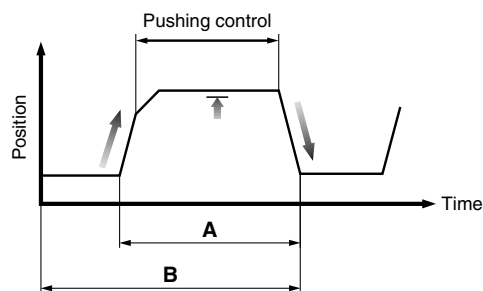
- Duty ratio: 70 [%]
- The pushing force set value will be 80 [%].

<Conversion table of pushing force–duty ratio> (LEPS10L)

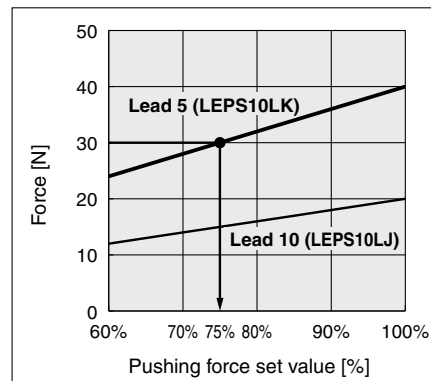
Pushing force set value [%]	Duty ratio [%]	Continuous pushing time [min]
70 or less	100	—
80	70	10
100	50	5

* [Pushing force set value] is one of the step data input to the controller.

* [Continuous pushing time] is the time that the actuator can continuously keep pushing.



$$\text{Duty ratio} = A/B \times 100 \text{ [%]}$$



<Pushing force set value–Force graph>
(LEPS10L)

Step 2 Check the pushing force. <Pushing force set value–Force graph>

Select a model based on the pushing force set value and force while referencing the pushing force set value–force graph.

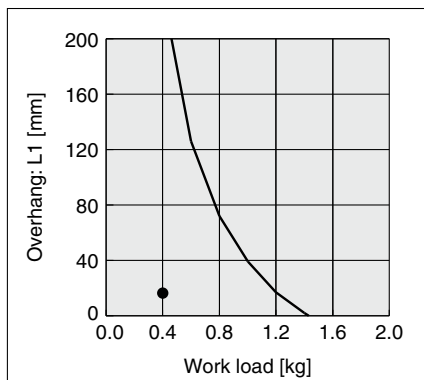
Selection example)

Based on the graph shown on the right side,

- Pushing force set value: 75 [%]
- Pushing force: 30 [N]

The LEPS10LK can be temporarily selected as a possible candidate.

Step 3 Check the guide allowable moment.



Based on the above calculation result, the LEPS10LK-50 should be selected.

- LEFS
- LEFB
- LEJS
- LEJB
- LEL
- LEM
- LEY
- LEYG
- LES
- LESH
- LEPY
- LEPS
- LER
- LEH
- LEY-X5
- 11-LEFS
- 11-LEFS
- 11-LEJS
- 11-LEJS
- 25A-
- LEC
- JXC
- LECS
- LECS-T
- LECY
- Motorless
- LAT3

LEPS Series

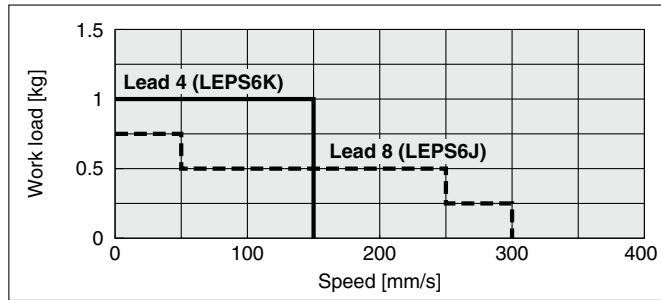
Step Motor (Servo/24 VDC)

Speed–Work Load Graph (Guide)

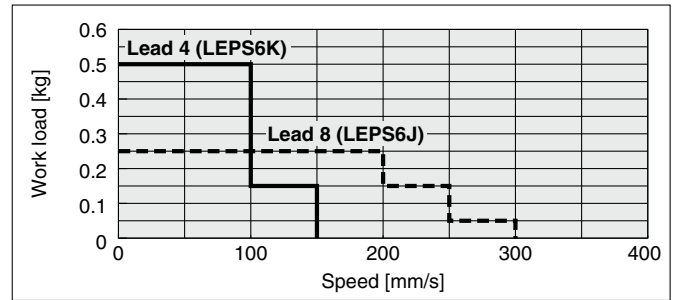
* The following graphs show the values when moving force is 150%.

LEPS6 (Basic)

Horizontal

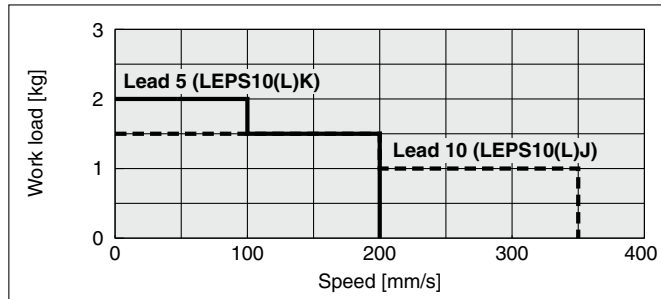


Vertical

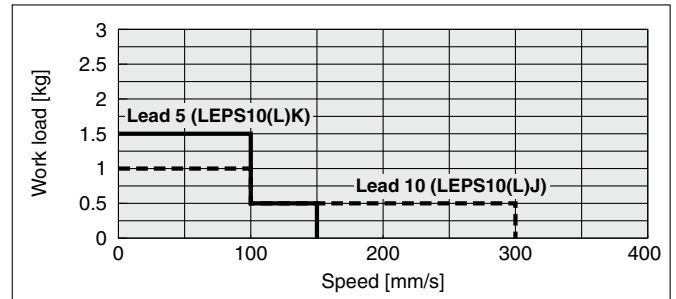


LEPS10(L) (Motor size: Basic/Compact)

Horizontal

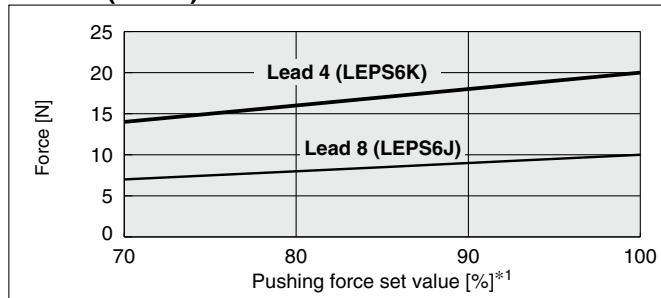


Vertical



Pushing Force Set Value–Force Graph (Guide)

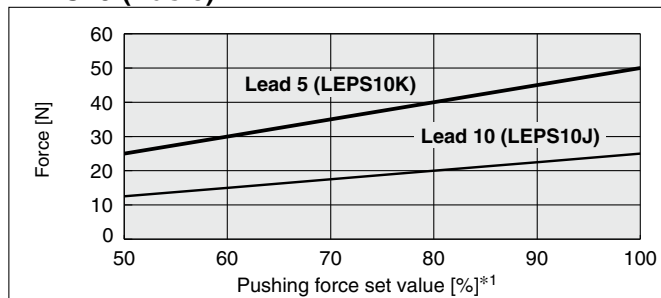
LEPS6 (Basic)



Pushing force set value [%]	Duty ratio [%]	Continuous pushing time [min]
70	100	—
80	70	10
100	50	5

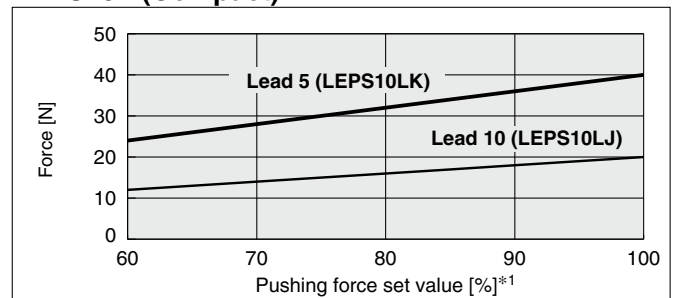
*1 Set values for the controller

LEPS10 (Basic)



Pushing force set value [%]	Duty ratio [%]	Continuous pushing time [min]
60 or less	100	—
70	30	3
100	15	1

LEPS10L (Compact)

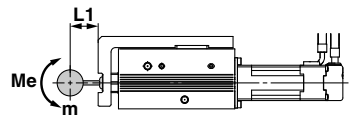
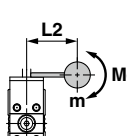
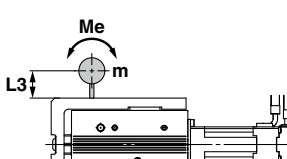
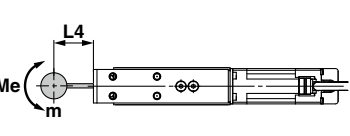
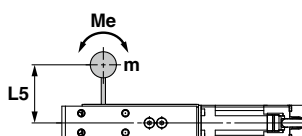
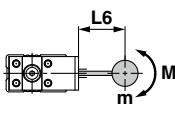


Pushing force set value [%]	Duty ratio [%]	Continuous pushing time [min]
70 or less	100	—
80	70	10
100	50	5

* This graph shows the amount of allowable overhang (guide unit) when the center of gravity of the workpiece overhangs in one direction. When selecting the overhang, refer to the Electric Actuator Model Selection Software for confirmation: <https://www.smcworld.com>

Dynamic Allowable Moment

Acceleration/Deceleration — 3000 mm/s²

Orientation	Load overhanging direction m : Work load [kg] Me: Dynamic allowable moment [N·m] L : Overhang to the work load center of gravity [mm]	Model			
		LEPS6		LEPS10	
		LEPS6□-25	LEPS6□-50	LEPS10□-25	LEPS10□-50
Horizontal/Bottom	 X L1 [mm]				
	 Y L2 [mm]				
	 Z L3 [mm]				
Wall	 X L4 [mm]				
	 Y L5 [mm]				
	 Z L6 [mm]				

- LEFS
- LEFB
- LEJS
- LEJB
- LEL
- LEM
- LEY
- LEYG
- LES
- LESH
- LEPY
- LEPS
- LER
- LEH
- LEY-X5
- 11-LEFS
- 11-LEJS
- 25A-
- LEC□
- JXC□
- LECS□
- LECS□-T
- LECY□
- Motorless
- LAT3

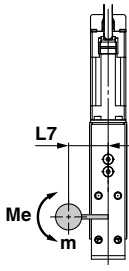
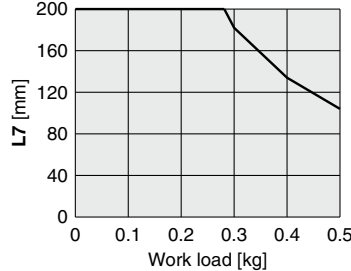
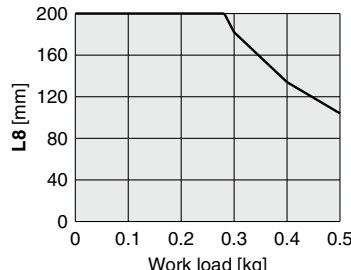
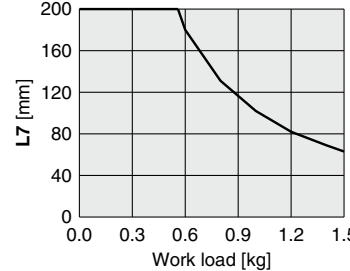
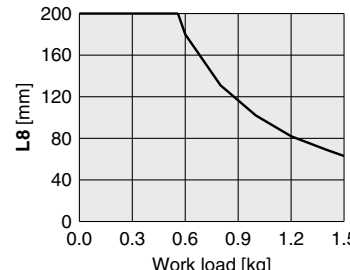
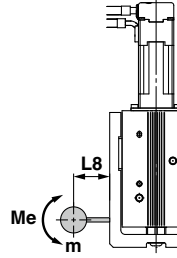
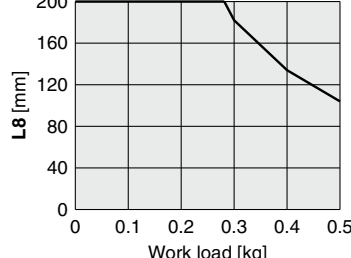
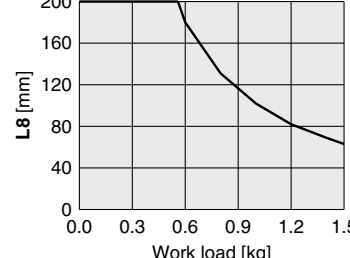
LEPS Series

Step Motor (Servo/24 VDC)

* This graph shows the amount of allowable overhang (guide unit) when the center of gravity of the workpiece overhangs in one direction. When selecting the overhang, refer to the Electric Actuator Model Selection Software for confirmation: <https://www.smcworld.com>

Dynamic Allowable Moment

Acceleration/Deceleration — 3000 mm/s²

Orientation	Load overhanging direction m : Work load [kg] Me: Dynamic allowable moment [N·m] L : Overhang to the work load center of gravity [mm]	Model			
		LEPS6		LEPS10	
		LEPS6□-25	LEPS6□-50	LEPS10□-25	LEPS10□-50
Vertical	 <p style="text-align: center;">Y</p>				
	 <p style="text-align: center;">Z</p>				

Static Allowable Moment

Model	Allowable moment [N·m]		
	Pitch moment	Yaw moment	Roll moment
	M_p	M_y	M_r
LEPS6	1.07	1.07	2.51
LEPS10	2.55	2.55	5.47

Traveling Parallelism

Traveling parallelism	Stroke [mm]	
	25	50
	0.05 mm or less	0.1 mm or less

Table Deflection (Reference Value)

* These values are initial guideline values.

Table displacement due to pitch moment load (marked with the arrow)

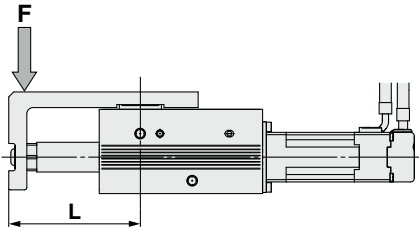


Table displacement due to yaw moment load (marked with the arrow)

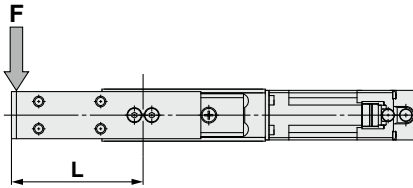
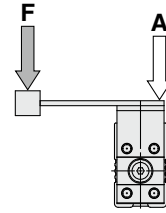


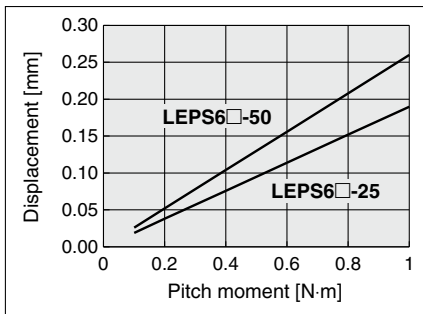
Table displacement due to roll moment load (marked with the arrow)



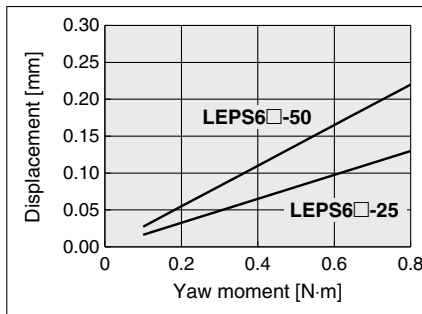
Distance L [mm]

Model	LEPS6		LEPS10	
Stroke [mm]	25	50	25	50
Distance L [mm]	53.0	77.0	59.5	82.0

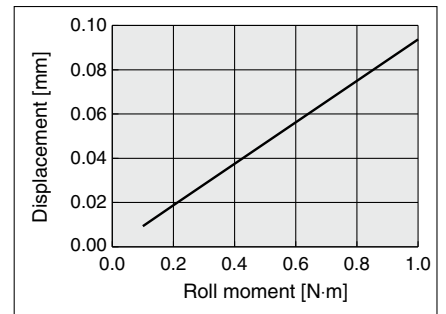
LEPS6



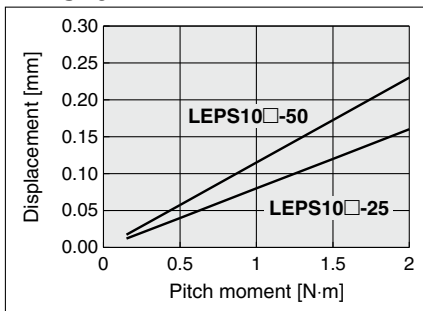
LEPS6



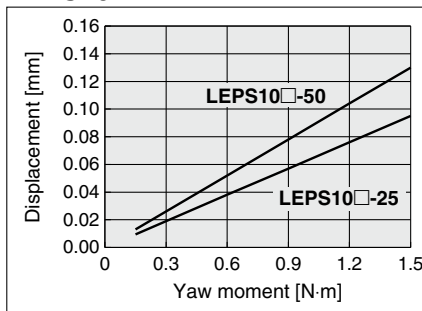
LEPS6



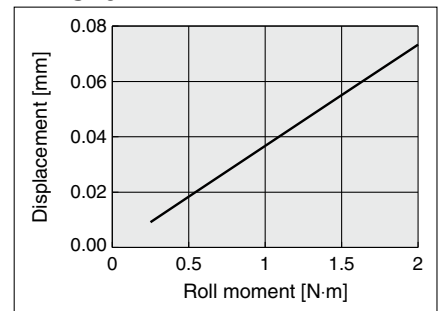
LEPS10



LEPS10



LEPS10

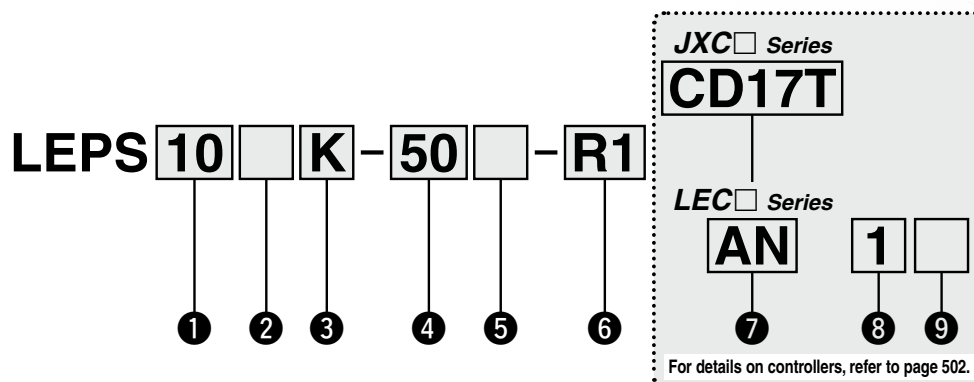


Electric Actuator Miniature Slide Table Type

LEPS Series LEPS6, 10



How to Order



① Size

6
10

② Motor size

Symbol	Motor size	Applicable size
Nil	Basic	6, 10
L	Compact	10

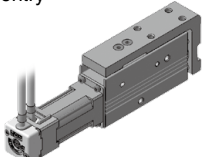
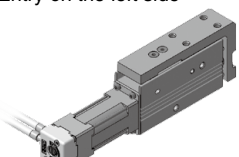
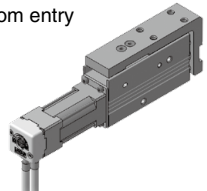
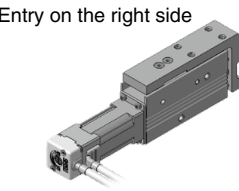
③ Lead screw type [mm]

Symbol	Screw lead	
	LEPS6	LEPS10
K	4	5
J	8	10

④ Stroke [mm]

Symbol	Stroke
25	25
50	50

⑤ Motor cable mounting direction

Nil	Top entry 	L	Entry on the left side 
	Bottom entry 		Entry on the right side 
U		R	

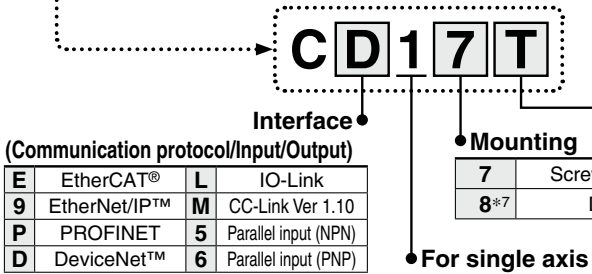
⑥ Actuator cable type/length*2

Standard cable [m]		Robotic cable [m]			
Nil	None	R1	1.5	RA	10*1
S1	1.5	R3	3	RB	15*1
S3	3	R5	5	RC	20*1
S5	5	R8	8*1		

JXC Series (For details, refer to page 503.)

7 Controller

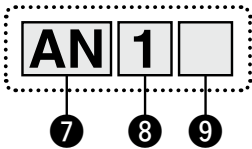
Nil	Without controller
C□1□□	With controller



Communication plug connector I/O cable*8

Symbol	Type	Applicable interface
Nil	Without accessory	—
S	Straight type communication plug connector	DeviceNet™ CC-Link Ver 1.10
T	T-branch type communication plug connector	DeviceNet™ CC-Link Ver 1.10
1	I/O cable (1.5 m)	Parallel input (NPN) Parallel input (PNP)
3	I/O cable (3 m)	
5	I/O cable (5 m)	

LEC Series (For details, refer to page 503.)



7 Controller/Driver type*3

Nil	Without controller/driver	
1N	LECP1	NPN
1P	(Programless type)	PNP
AN	LECPA*4	NPN
AP	(Pulse input type)	PNP

8 I/O cable length*5

Nil	Without cable (Without communication plug connector)
1	1.5 m
3	3 m*6
5	5 m*6

9 Controller/Driver mounting

Nil	Screw mounting
D	DIN rail*7



- *1 Produced upon receipt of order (Robotic cable only)
- *2 The standard cable should only be used on fixed parts. For use on moving parts, select the robotic cable. Refer to page 758 if only the actuator cable is required.
- *3 For details on controllers/drivers and compatible motors, refer to the compatible controllers/drivers on the next page.
- *4 When pulse signals are open collector, order the current limiting resistor (LEC-PA-R-□) on page 736 separately.
- *5 When "Without controller/driver" is selected for controller/driver types, I/O cable cannot be selected. Refer to page 724 (For LECP1), or page 736 (For LECPA) if I/O cable is required.

- *6 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
- *7 The DIN rail is not included. It must be ordered separately.
- *8 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 LEP 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.

[UL-compliant products (For the LEC series)]

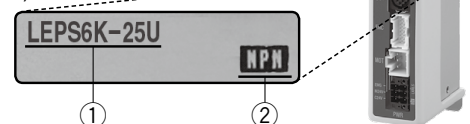
When compliance with UL is required, the electric actuator and controller/driver should be used with a UL1310 Class 2 power supply.

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

Confirm that the combination of the controller/driver and the 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>

LEFS
LEFB

LEJS
LEJB

LEL

LEM
LEMB

LEY
LEYG

LES
LESH

LEPY
LEPS

LER

LEH

LEY-X5

11-LEFS

11-LEJS

25A-

LEC□

JXC□

LECS□
LECS□-T

LECY□







Motorless




LAT3

LEPS Series

Step Motor (Servo/24 VDC)

Compatible Controllers/Drivers

Type	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 points					
Power supply voltage	24 VDC					
Reference page	741					

Type	Step data input type 	Programless type 	Pulse input type 
Series	JXC51 JXC61	LECP1	LECPA
Features	Parallel I/O	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)		
Max. number of step data	64 points	14 points	—
Power supply voltage	24 VDC		
Reference page	706-1	719	731

Specifications



Weight

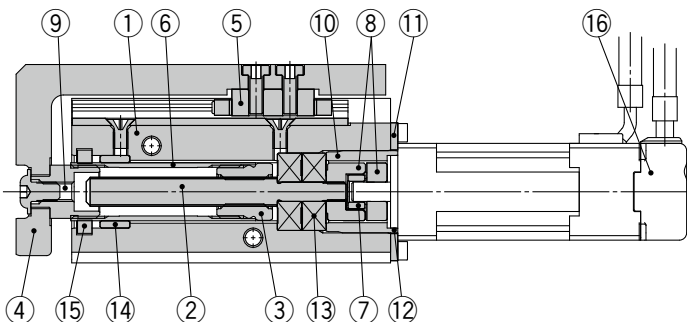
Model		LEPS6	
Stroke [mm]		25	50
Product weight [kg]	Basic	0.29	0.35

Model		LEPS10	
Stroke [mm]		25	50
Product weight [kg]	Basic	0.56	0.65
	Compact	0.50	0.59

Model		LEPS6		LEPS10		
Screw lead [mm]		4	8	5	10	
Pushing force [N] ^{*1 *6}		Basic	14 to 20	7 to 10	25 to 50	
		Compact	—	—	24 to 40	
Work load [kg] ^{*2 *3 *6}	Horizontal	Basic	1.0	0.75	2.0	
		Compact	—	—	2.0	
	Vertical	Basic	0.5	0.25	1.5	1.0
		Compact	—	—	1.5	1.0
Speed [mm/s] ^{*3 *6}	Horizontal	Basic	10 to 150	20 to 300 ^{*4}	10 to 200	
		Compact	—	—	10 to 200	
	Vertical	Basic	10 to 150	20 to 300 ^{*4}	10 to 150	
		Compact	—	—	10 to 150	
Pushing speed [mm/s] ^{*5}		10	20	10	20	
Acceleration/Deceleration [mm/s ²]		3000				
Backlash [mm]		0.2 or less				
Positioning repeatability [mm]		±0.05				
Lost motion [mm] ^{*7}		0.2 or less				
Impact/Vibration resistance [m/s ²] ^{*8}		50/20				
Actuation type		Slide screw				
Guide type		Linear guide				
Max. operating frequency [c.p.m]		60				
Operating temperature range [°C]		5 to 40				
Operating humidity range [%RH]		90 or less (No condensation)				
Motor size		□20		□28		
Motor type		Step motor (Servo/24 VDC)				
Encoder (Angular displacement sensor)		Incremental A/B phase (800 pulse/rotation)				
Rated voltage [V]		24 VDC ±10%				
Electric specifications	Power consumption [W] ^{*9}	Basic	12	28	28	
		Compact	—	—	22	
	Standby power consumption when operating [W] ^{*10}	Basic	11	22	22	
		Compact	—	—	16	
	Max. instantaneous power consumption [W] ^{*11}	Basic	22	55	55	
	Compact	—	—	45		

- *1 Pushing force accuracy is LEPS6: ±30% (F.S.), LEPS10: ±25% (F.S.). Refer to pages 508 and 509 for the detailed setting range and precautions. The pushing force and the duty ratio change according to the set value. Check the "Pushing Force Set Value-Force Graph (Guide)" on page 497 and [14] on page 509.
- *2 The maximum value of the work load for the positioning operation. Check the "Dynamic Allowable Moment" graph for the allowable moment of the guide on pages 498 and 499.
- *3 Speed changes according to the work load. Check the "Speed-Work Load Graph (Guide)" on page 497.
- *4 When the stroke is 25 mm, the maximum speed will be 250 mm/s.
- *5 Set to the pushing speed when pushing operation.
- *6 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%)
- *7 A reference value for correcting an error in reciprocal operation
- *8 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.)
- *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 operation. Except during the pushing operation
- *11 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.

Construction



Component Parts

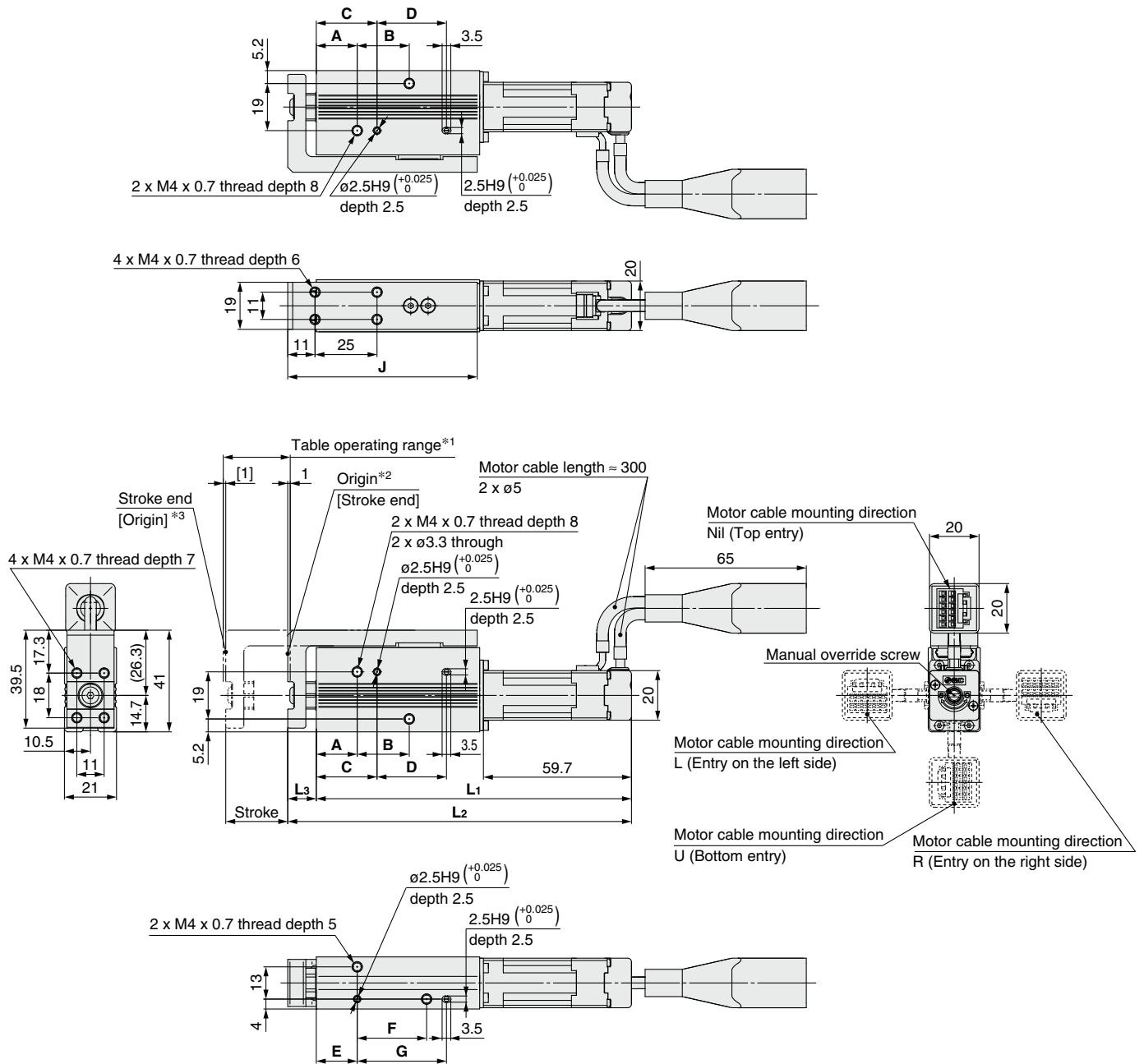
No.	Description	Material	Note
1	Body	Aluminum alloy	Anodized
2	Screw shaft	Stainless steel	Heat treatment + Special treatment
3	Screw nut	Stainless steel	Heat treatment + Special treatment
4	Table	Aluminum alloy	Anodized
5	Linear guide	—	
6	Rod	Stainless steel	
7	Spider	NBR	
8	Hub	Aluminum alloy	
9	Socket	Free cutting carbon steel	Nickel plating
10	Bearing stopper	Size 6: Aluminum alloy Size 10: Carbon steel	
11	Motor plate	Aluminum alloy	Anodized
12	Guide ring	Aluminum alloy	Size 10 only
13	Bearing	—	
14	Bushing	Bearing alloy	
15	Soft wiper	—	
16	Step motor (Servo/24 VDC)	—	

LEPS Series

Step Motor (Servo/24 VDC)

Dimensions

LEPS6



- *1 This is the range within which the table can move when it returns to origin.
Make sure workpieces mounted on the table do not interfere with the workpieces and facilities around the table.
- *2 Position after returning to origin
- *3 [] for when the direction of return to origin has changed

Dimensions

[mm]

Model	L ₁	L ₂	L ₃	A	B	C	D	E	F	G	J
LEPS6□-25□	127.1	138.6	11.5	16.5	21	24.5	28	16.5	28	36	76.4
LEPS6□-50□	156.6	169.6	13	22	45	30	52	22	52	60	107.4



LEPY/LEPS Series

Specific Product Precautions 1

Be sure to read this before handling the products. Refer to page 984 for safety instructions, pages 985 to 990 for electric actuator precautions.

Design / Selection

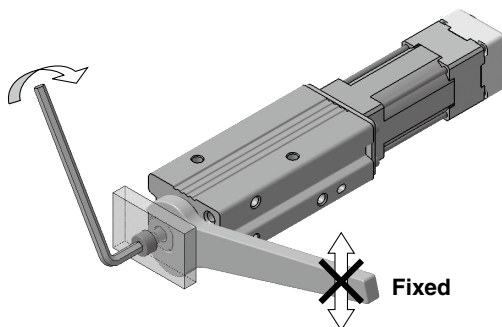
Warning

- Do not apply a load in excess of the specification limits.**
Select a suitable actuator by work load and allowable lateral load on the rod end. If the product is used outside of the specification limits, the eccentric load applied to the rod will be excessive and have adverse effects such as the generation of play on the sliding parts of the rod, reduced accuracy, or reduced service life of the product may occur.
- Do not use the product in applications where excessive external force (including vibration) or impact force is applied to it.**
Do not apply impact and vibration outside of the specifications. This can cause a malfunction.
- If gravity acts on the workpiece due to vertical mounting, it may drop due to its own weight depending on the conditions when the product is not energized (SVON signal is OFF) or stopped (EMG is not energized).**
- Power failure may result in a decrease in the pushing force; ensure that safety measures are in place to prevent injury to the operator or damage to the equipment.**
When the product is used for clamping, the clamping force could be decreased due to power failure, potentially creating a hazardous situation in which the workpiece is released.
- This product cannot be used as a stopper.**
Excessive load acts on the actuator, which adversely affects the operation and the life of the product.

Mounting

Warning

- Do not drop or hit the actuator to avoid scratching and denting the mounting surfaces.**
Even a slight deformation can cause the deterioration of accuracy and operation failure.
- When mounting workpieces or jigs to the rod end, hold the flats of the rod end with a wrench so that the rod does not rotate (Rod type only).**
When attaching a nut or workpiece to the end of the rod, hold the flats of the rod end with a wrench (the rod should be fully retracted). Do not apply tightening torque to the rod non-rotating mechanism. The rod is manufactured to precise tolerances, so even a slight deformation may cause a malfunction and damage.

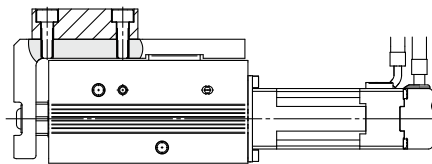


Mounting

Warning

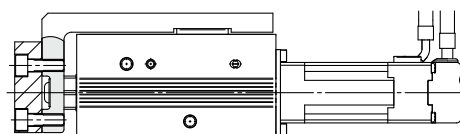
- When mounting a bolt, workpieces, or jig to the rod end, the bolt should be tightened with a torque within the specified range (Rod type only).**
Tightening to a torque higher than the specified value may cause a malfunction due to the deformation of the component, whilst under-tightening can cause displacement of the mounting position or in extreme conditions detaching of the workpiece. If the bolt is screwed in more than the maximum depth, the lead screw will be damaged, leading to operation failure.
- | Model | Thread size | Max. tightening torque [N·m] | Max. screw-in depth [mm] | Rod end width across flats [mm] |
|--------|-------------|------------------------------|--------------------------|---------------------------------|
| LEPY6 | M4 x 0.7 | 1.4 | 7 | 10 |
| LEPY10 | M5 x 0.8 | 3.0 | 9 | 12 |
-
- The angular position of the rod end flats cannot be changed because the rod has a non-rotating mechanism inside (Rod type only).**
The angular position of the rod end flats is not specified; it depends on the actuator type.
The rod rotates slightly due to the clearance of the non-rotating mechanism: Install the bolt or workpiece with consideration to the rotation.
 - When attaching the workpiece to the table, hold the table and tighten the screws with a torque within the specified range (Slide table type only).**
The table is supported by a linear guide, do not apply impact or moment when mounting the work load.
If the screws are screwed to more than the maximum screw-in depth, it may lead to a malfunction due to damage of the linear guide or body.

Top mounting



Model	Screw size	Max. tightening torque [N·m]	Max. screw-in depth [mm]
LEPS6	M4 x 0.7	1.4	6
LEPS10	M4 x 0.7	1.4	6

Front mounting



Model	Screw size	Max. tightening torque [N·m]	Max. screw-in depth [mm]
LEPS6	M4 x 0.7	1.4	7
LEPS10	M4 x 0.7	1.4	8



LEPY/LEPS Series

Specific Product Precautions 2

Be sure to read this before handling the products. Refer to page 984 for safety instructions, pages 985 to 990 for electric actuator precautions.

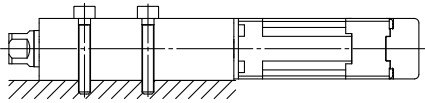
Mounting

Warning

6. When mounting the product, tighten the mounting screws within the specified torque range.

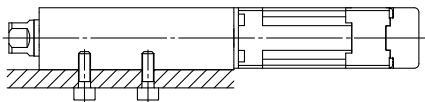
Tightening the screws with a higher torque than recommended may result in a malfunction, while tightening with a lower torque can result in the displacement of the mounting position or, in extreme conditions, the actuator could become detached from its mounting position.

Side mounting (Body mounting through-hole)



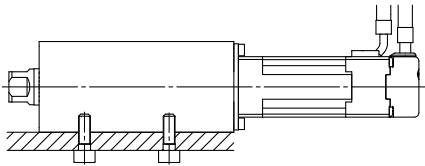
Model	Screw size	Max. tightening torque [N·m]
LEPY6 LEPS6	M3 x 0.5	0.9
LEPY10 LEPS10	M4 x 0.7	1.4

Side mounting (Body tapped)



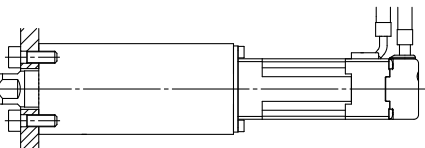
Model	Screw size	Max. tightening torque [N·m]	Max. screw-in depth [mm]
LEPY6 LEPS6	M4 x 0.7	1.4	7
LEPY10 LEPS10	M5 x 0.8	3.0	9

Bottom mounting (Body tapped)



Model	Screw size	Max. tightening torque [N·m]	Max. screw-in depth [mm]
LEPY6 LEPS6	M4 x 0.7	1.4	5
LEPY10 LEPS10	M5 x 0.8	3.0	9

Rod side mounting (Rod type only)



Model	Screw size	Max. tightening torque [N·m]	Max. screw-in depth [mm]
LEPY6	M4 x 0.7	1.4	7
LEPY10	M5 x 0.8	3.0	9

7. When it is necessary to operate the product by the manual override screw, check the position of the manual override and leave necessary space.

Do not apply excessive torque to the manual override screw. Failure to do so may result in damage or malfunction.

8. When an external guide is used, connect it in such a way that no impact or load is applied to it.

This may cause a malfunction due to an increase in sliding resistance, or use a freely moving connector (such as a floating joint).

Handling

Caution

1. To conduct a pushing operation, be sure to set the product to [Pushing operation].

Do not allow a workpiece to collide with the rod/table during the positioning operation or within the positioning range.

Failure to do so may result in damage lead to or malfunction. If the operation is interrupted or stopped during the cycle: When the pushing operation command is output immediately after restarting the operation, the direction of movement depends on the position of restart.

2. Use the product within the specified pushing speed range for the pushing operation.

Failure to do so may result in damage or malfunction.

Model	Lead	Pushing speed [mm/s]
LEPY6 LEPS6	4	10
LEPY10 LEPS10	8	20
LEPY10 LEPS10	5	10
LEPY10 LEPS10	10	20

3. For pushing operations, ensure that the force is applied in the direction of the rod axis.

4. The moving force should be the initial value.

If the moving force is set below the initial value, it may cause the generation of an alarm.

Model	Motor size	Moving force [%]
LEPY6 LEPS6	Basic	150
LEPY10 LEPS10	Basic	150
	Compact	

5. The actual speed of this actuator is affected by the load.

Check the model selection section of the catalog.

6. Do not scratch or dent the sliding parts of the rod, by striking or attaching objects.

The rod is manufactured to precise tolerances, even a slight deformation may cause a malfunction.

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

It may cause deformation of the non-rotating sliding part, leading to clearance in the internal guide or an increase in the sliding resistance. Refer to the table below for the approximate values of the allowable range of rotational torque.

Allowable rotational torque [N·m] or less	LEPY6□	LEPY10□
	0.04	0.08

LEFS
LEFBLEJS
LEJB

LEL

LEM

LEY
LEYGLES
LESHLEPY
LEPS

LER

LEH

LEY-X5

11-LEFS

11-LEJS

25A-

LEC□

JXC□

LECS□
LECS□-T

LECY□

Motorless

LAT3



LEPY/LEPS Series

Specific Product Precautions 3

Be sure to read this before handling the products. Refer to page 984 for safety instructions, pages 985 to 990 for electric actuator precautions.

Handling

⚠ Caution

8. Do not operate by fixing the rod and moving the actuator body.

Excessive load will be applied to the rod, leading to damage to the actuator and reduced the life of the product.

9. Return to origin

- 1) Do not apply a load, impact, or resistance in addition to the transferred load during return to origin.
Additional force will cause the displacement of the origin position since it is based on the detected motor torque.
- 2) When the return to origin is set with <Basic parameter> [Origin offset], it is necessary to change the current position of the product. Recheck the value of step data.
- 3) It is recommended to set the directions of return to origin and pushing in the same direction in order to enhance the measurement accuracy during the pushing operation.

10. There is no backlash effect in the pushing operation.

The return to origin is done by the pushing operation.
The position can be displaced by the effect of the backlash during the positioning operation.
Take the backlash into consideration when setting the position.

<Backlash>

Model	Backlash [mm]
LEPY6	0.2 or less
LEPS6	0.2 or less
LEPY10	0.2 or less
LEPS10	0.2 or less

11. Never allow the rod/table to collide with the stroke end except during return to origin.

This may damage the inner parts.

12. INP output signal

- 1) Positioning operation
When the product comes within the set range of the step data [In position], the INP output signal will turn ON.
Initial value: Set to [0.50] or higher.
- 2) Pushing operation
When the effective pushing force exceeds the step data [Trigger LV], the INP output signal will turn ON.
When [Pushing force] setting and [Trigger LV] are set less than [Pushing force], use the product within the specified range of the [Pushing force] and [Trigger LV].
 - a) To ensure that the actuator pushes the workpieces with the set [Pushing force], it is recommended that the [Trigger LV] be set to the same value as the [Pushing force].
 - b) If the [Trigger LV] is set lower than the [operation pushing force (current pushing force) for the pushing operation], the pushing force will exceed the trigger LV from the pushing start position and the INP output signal will turn ON before pushing the workpieces. Increase the pushing force, or change the work load so that the current pushing force becomes smaller than the trigger LV.

<Pushing force and trigger LV range>

Model	Motor size	Pushing force set value [%]
LEPY6 LEPS6	Basic	70 to 100
LEPY10 LEPS10	Basic	50 to 100
	Compact	60 to 100

13. For pushing operations, set the product to a position at least 0.5 mm away from a workpiece. (This position is referred to as the pushing start position.)

The following alarms may be generated and operation may become unstable if setting is not done correctly.

a. "Posn failed"

The product cannot reach the pushing start position due to variations in the width of workpieces.

b. "Pushing ALM"

The product is pushed back from the pushing start position after starting to push.

c. "Deviation over flow"

Displacement exceeding the specified value is generated at the pushing start position.

14. For pushing operations, use the product within the duty ratio range below.

The duty ratio is the fraction of time that the product can keep pushing.

Model	Motor size	Pushing force set value [%]	Duty ratio [%]	Continuous pushing time [min]
LEPY6 LEPS6	Basic	70	100	—
		80	70	10
		100	50	5

Model	Motor size	Pushing force set value [%]	Duty ratio [%]	Continuous pushing time [min]
LEPY10 LEPS10	Basic	60 or less	100	—
		70	30	3
		100	15	1

Model	Motor size	Pushing force set value [%]	Duty ratio [%]	Continuous pushing time [min]
LEPY10 LEPS10	Compact	70 or less	100	—
		80	70	10
		100	50	5

15. When mounting the product, secure a bending diameter of 40 mm or longer for the motor cable.

Maintenance

⚠ Warning

1. Ensure that the power supply is stopped and the workpiece is removed before starting maintenance work or replacing the product.