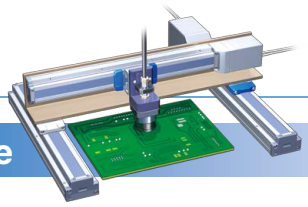
A Wide Variety for Different Applications
Electric Actuators *LE□ Series*

Transfer



High Rigidity and High Precision Slider Type

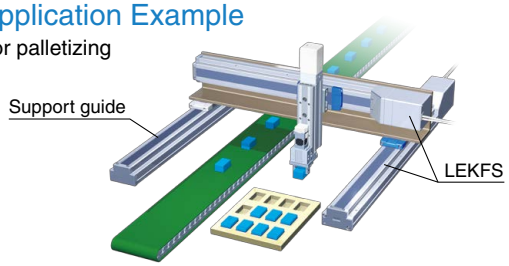
LEKFS Series p. 40

Battery-less Absolute (Step Motor 24 VDC)

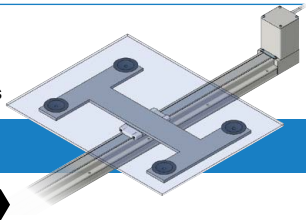
Ball screw drive

Application Example

For palletizing



Load and unload transfer of workpieces



Slider Type

LEF Series p. 94

Battery-less Absolute (Step Motor 24 VDC)

Incremental (Step Motor 24 VDC)

Incremental (Servo Motor 24 VDC)

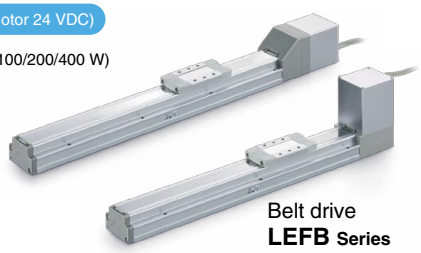
AC Servo Motor (100/200/400 W)

Motorless

Ball screw drive
LEFS Series

Clean Room Specification

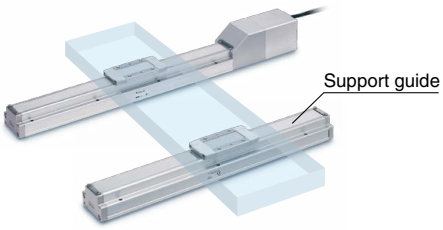
Secondary Battery Compatible



Belt drive
LEFB Series

LEFG Series Support Guide

Clean Room Specification



High Performance LEFS□F Series p. 72

Incremental (Step Motor 24 VDC)

Ball screw drive

LEJ Series p. 282

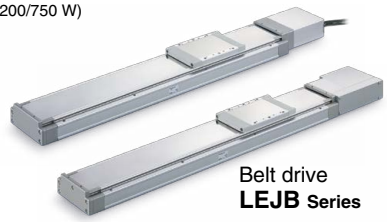
AC Servo Motor (100/200/750 W)

Motorless

Ball screw drive
LEJS Series

Clean Room Specification

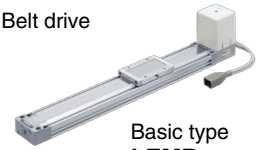
Secondary Battery Compatible



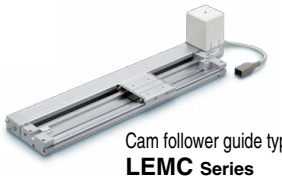
Belt drive
LEJB Series

LEM Series Incremental (Step Motor 24 VDC) p. 358

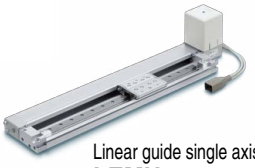
Belt drive



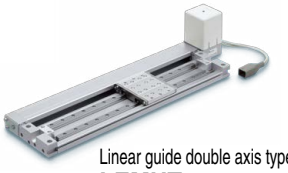
Basic type
LEMB Series



Cam follower guide type
LEMC Series



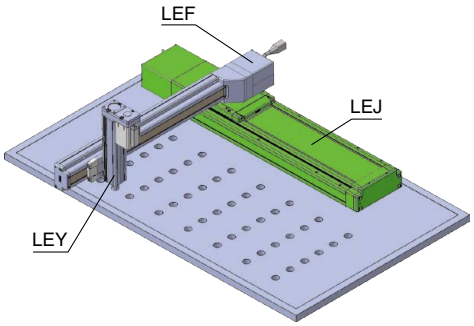
Linear guide single axis type
LEMH Series



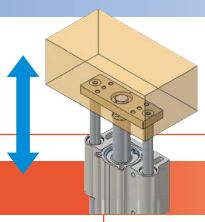
Linear guide double axis type
LEMHT Series

Application Example

For pick and place operations



Lift Up/Push



Rod Type

LEY Series p. 412

Dust-tight/Water-jet-proof (IP65 Equivalent/IP67 Equivalent) | Secondary Battery Compatible

Battery-less Absolute (Step Motor 24 VDC)

Incremental (Step Motor 24 VDC)

Incremental (Servo Motor 24 VDC)

Top side parallel motor type **LEY Series**

In-line motor type **LEY□D Series**

AC Servo Motor (100/200/400/750 W)

Motorless

LEY Series

Guide Rod Type LEYG Series p. 412

Battery-less Absolute (Step Motor 24 VDC)

Incremental (Step Motor 24 VDC)

Incremental (Servo Motor 24 VDC)

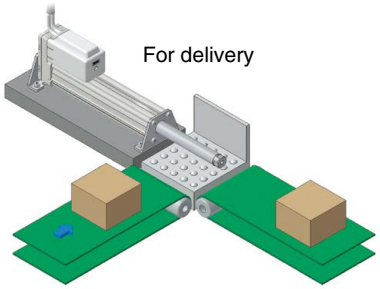
● Lateral end load: 5 times more

AC Servo Motor (100/200 W)

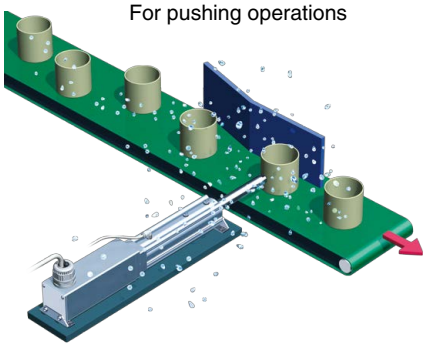
Motorless

Application Examples

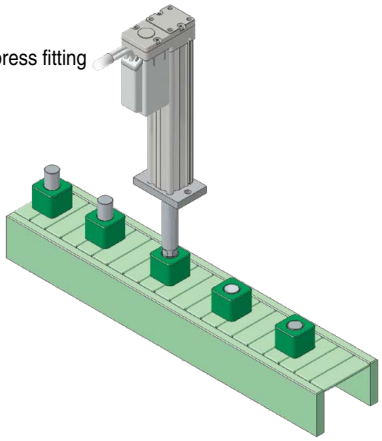
For delivery



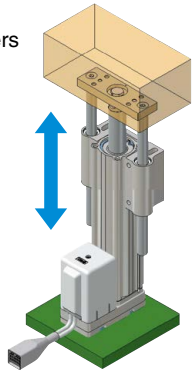
For pushing operations



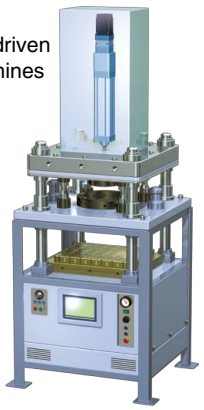
For press fitting



For lifters

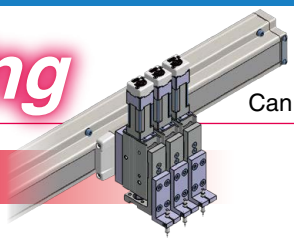


For servo-driven press machines



A Wide Variety for Different Applications
Electric Actuators *LE□ Series*

Space Saving



Can be mounted with short pitch (LEP)

Miniature

LEP Series p. 736

Incremental (Step Motor 24 VDC)

Rod type
LEPY Series

Slide table type
LEPS Series

Guide Rod Slider Type

LEL Series p. 338

Incremental (Step Motor 24 VDC)

Belt drive

- Low-profile/Flat
  Height: 48 mm

Slide Table

High Precision Type LESYH Series p. 580

Battery-less Absolute (Step Motor 24 VDC) AC Servo Motor (100/200 W)

Motorless

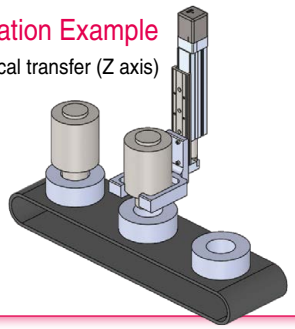
In-line type
LESYH□D Series

Right side parallel type
LESYH□R Series

Left side parallel type
LESYH□L Series

Application Example

For vertical transfer (Z axis)



Compact Type LES Series p. 634

Battery-less Absolute (Step Motor 24 VDC)

Incremental (Step Motor 24 VDC)

Incremental (Servo Motor 24 VDC)

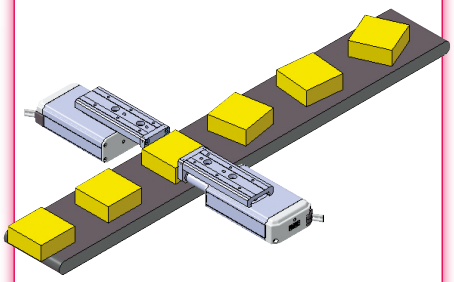
Basic type
LES□R Series

Symmetrical type
LES□L Series

In-line motor type
LES□D Series

Application Example

For positioning of pallets on a conveyer



High Rigidity Type LESH Series p. 634

Battery-less Absolute (Step Motor 24 VDC)

Incremental (Step Motor 24 VDC)

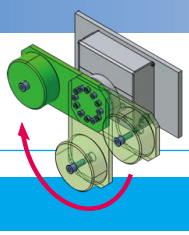
Incremental (Servo Motor 24 VDC)

Basic type
LESH□R Series

Symmetrical type
LESH□L Series

In-line motor type
LESH□D Series

Rotate



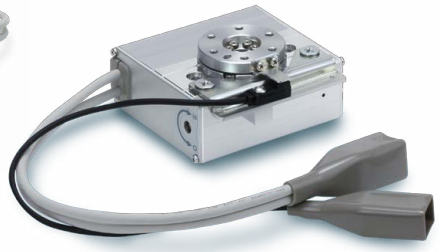
Rotary Table

LER Series p. 766

Battery-less Absolute (Step Motor 24 VDC) Incremental (Step Motor 24 VDC)

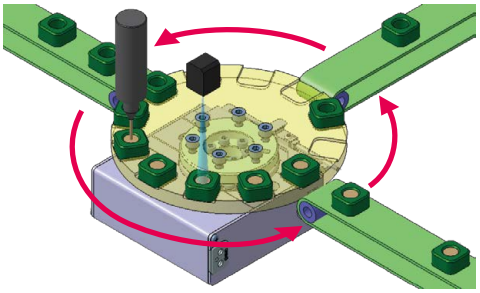
[Basic type] [High-precision type]

[Continuous rotation specification]
Rotation angle: 360°

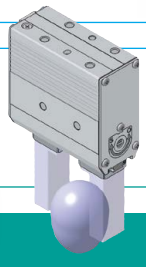


Application Example

For 360° continuous rotation



Grip



Gripper

LEH Series p. 804

Battery-less Absolute (Step Motor 24 VDC) Incremental (Step Motor 24 VDC)

Z Type (2 fingers)
LEHZ Series

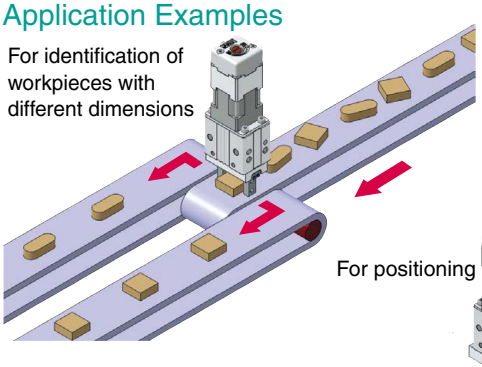
ZJ Type (2 fingers)
With dust cover
LEHZJ Series

F Type (2 fingers)
Long stroke
LEHF Series

S Type (3 fingers)
Can hold round workpieces
LEHS Series

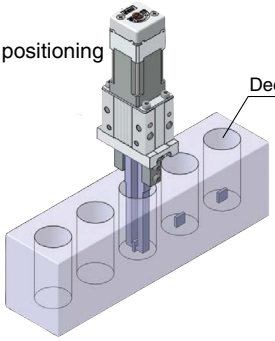
Application Examples

For identification of workpieces with different dimensions

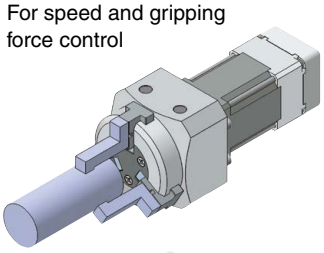


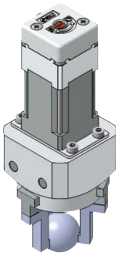
For positioning

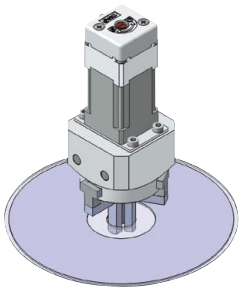
Deep holes



For speed and gripping force control







Controllers/Drivers

Step Motor

<Single Axis Controllers>

Step Data Input Type

Incremental
(Step Motor 24 VDC)
JXC51/61 Series

High performance
JXC5H/6H Series

Incremental
(Servo Motor 24 VDC)
LECA6 Series

Gateway Unit

LEC-G Series

Programless Type

Incremental
(Step Motor 24 VDC)
LECP1 Series

Programless Type (With Stroke Study)

Incremental
(Step Motor 24 VDC)
LECP2 Series

Specialized for LEM series

Pulse Input Type

Incremental
(Step Motor 24 VDC)
LECPA Series

EtherCAT/EtherNet/IP™/PROFINET/DeviceNet®/IO-Link/CC-Link Direct Input Type

JXCE1/91/P1/D1/L1/M1 Series High performance **JXCEH/9H/PH Series** With STO sub-function **JXCEF/JXCLF Series**

EtherCAT EtherNet/IP PROFINET DeviceNet IO-Link CC-Link

High performance | With STO sub-function | High performance | High performance | With STO sub-function

<Multi-Axis Controllers>

EtherNet/IP™ Direct Input Type

For 3 axes **JXC92 Series**

Parallel I/O/EtherNet/IP™ Direct Input Type

For 4 axes **JXC73 Series**
JXC83 Series

JXC93 Series
EtherNet/IP

AC Servo Motor

Pulse Input Type/Positioning Type

Incremental Type
LECSA Series

Pulse Input Type/Positioning Type

Absolute Type
LECSB-T Series

With STO sub-function

CC-Link Direct Input Type

Absolute Type
LECSC-T Series

CC-Link

SSCNETⅢ/H Type

Absolute Type
LECSS-T Series

SSCNETⅢ/H
SERVO SYSTEM CONTROLLER NETWORK

e-F@ctory Alliance

With STO sub-function

MECHATROLINK-Ⅱ Type

Absolute Type
LECYM Series

MECHATROLINK-Ⅱ

With STO sub-function

MECHATROLINK-Ⅲ Type

Absolute Type
LECYU Series

MECHATROLINK-Ⅲ

With STO sub-function

Card Motor *LAT3 Series* p. 1304

The transportation, pushing, and length measurement systems have been miniaturized through the use of a linear motor.

Weight
130 g
At a stroke of 10 mm

Max. stroke
50 mm

9 mm Thickness

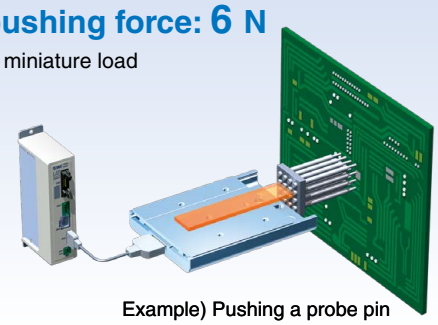
Series Variations

Model	Stroke				Sensor (Optical linear encoder)	Linear motor	Linear guide	Pushing*1	Positioning repeatability	Pushing measurement	Max. load mass*1		Max. speed
	10	20	30	50	Resolution	Type	Type	Max. instantaneous thrust	Accuracy	Accuracy	Horizontal	Vertical	
LAT3F	○	○	○	○	1.25 µm	Moving magnet type linear motor	Linear guide with circulating balls	Up to 6 N	±5 µm	±10 µm	1000 g	Up to 100 g	400 mm/s
LAT3M	—	—	—	○	5 µm				±20 µm	±40 µm			
LAT3	○	○	○	—	30 µm				±90 µm	±100 µm			

*1 The pushing and max. load mass changes with the stroke. For details, refer to the specifications on page 1318.

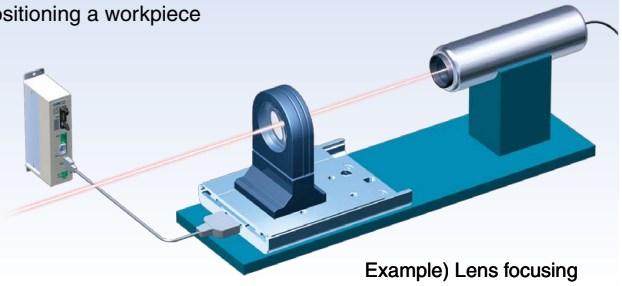
Application Examples

Max. pushing force: 6 N
Pushing a miniature load



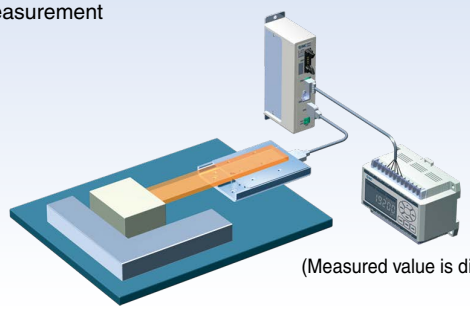
Example) Pushing a probe pin

Positioning repeatability: ±5 µm
Positioning a workpiece



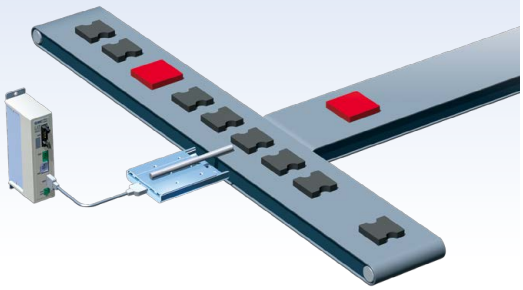
Example) Lens focusing

Pushing measurement accuracy: ±10 µm
Parts measurement



(Measured value is displayed)

Load mass: 100 g, Stroke: 5 mm
Max. operating frequency: 500 cpm
Rejection of non-conforming products, etc.

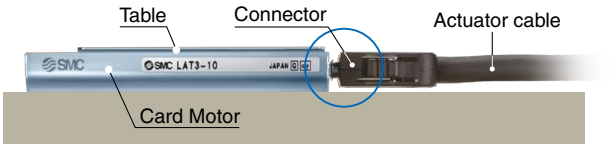


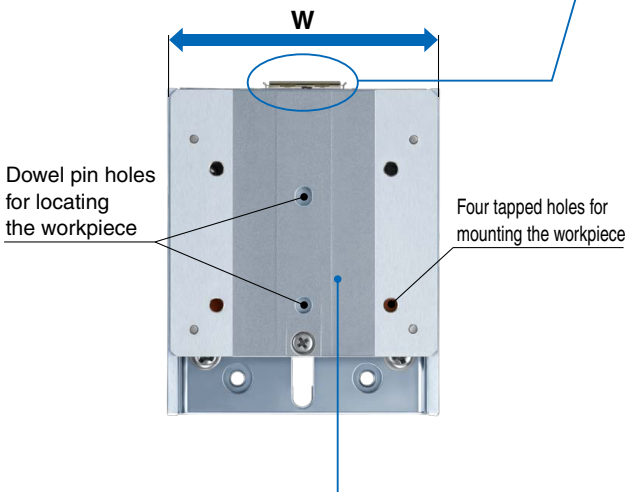
Compact and lightweight

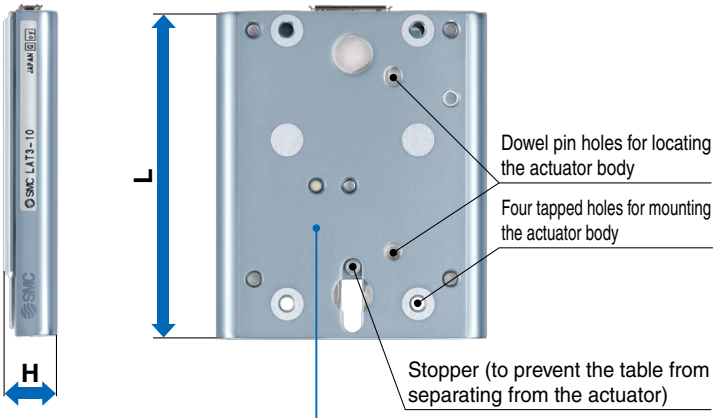
Model	W [mm]	L [mm]	H [mm]	Weight [g]
LAT3□-10	50	60	9	130
LAT3□-20		90		190
LAT3□-30		120		250
LAT3□-50		150	12	360

Cable Mounting

The cable connector does not protrude above the actuator.

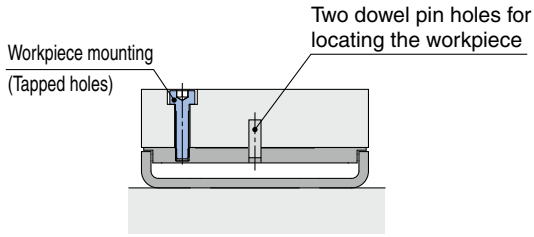






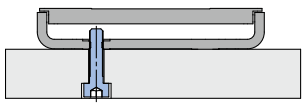
Workpiece Mounting

The table is provided with dowel pin holes for locating the workpiece as standard equipment.

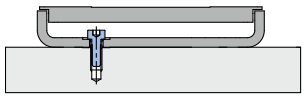


Body Mounting

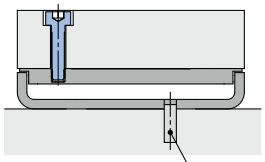
2 body mounting options



Bottom mounting (Tapped holes)



Top mounting (Through hole)



Controller LATCA Series

Easy programming (Cycle time entry)

Just input 3 parameters: Positioning time, Target position, Load mass

- Serial communication Modbus compatible