Motorless Type Compatible with Secondary Batteries

Slider Type
Series LEF

Slider Type/High Rigidity
Series LEJ

Guide Rod Slider
Series LEL

Slider Type/ Low Profile
Series LEM

Rod Type
Series LEY

Slide Table
Series LES

Miniature Rod Type/
Miniature Slide Table Type
Series LEY/LEPS

Rotary Table
Series LER

Gripper
Series LEH

Slider Type/
High Rigidity
Series LEL

Controller
Series LECP6/LECA6/LECP1/LECP2/
LECPA/LECPMJ/LEC-G

Driver
Series LECSA/LECSB/LESCC/LECSS/
LECSS-T/LECY

Clean Room Specification
P.12

Dust/Drip Proof Specification
P.12

P.1
P.2
P.3
P.4
P.5
P.6
P.7
P.8
P.9
P.10
P.11
P.13
P.14

CAT.NP-E11-20C
## Electric Actuator Controller/Driver

### Slider Type

**Series LEF**

<table>
<thead>
<tr>
<th>Step Motor (Servo/24 VDC)</th>
<th>Servo Motor (24 VDC)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ball Screw Drive</strong> Series LEFS</td>
<td><strong>Belt Drive</strong> Series LEFB</td>
</tr>
<tr>
<td>Size: 16, 25, 32, 40</td>
<td>Size: 16, 25, 32</td>
</tr>
<tr>
<td>Max. work load: 60 kg</td>
<td>Max. stroke: 2000 mm</td>
</tr>
<tr>
<td>Max. speed: 1200 mm/s</td>
<td>Max. speed: 2000 mm/s</td>
</tr>
<tr>
<td>Positioning repeatability: ±0.015 mm (High precision type)</td>
<td></td>
</tr>
<tr>
<td>Clean room specification also available</td>
<td></td>
</tr>
<tr>
<td>11-LEFS</td>
<td>11-LEFB</td>
</tr>
<tr>
<td>Motor parallel type</td>
<td>Clean room specification</td>
</tr>
</tbody>
</table>

**AC Servo Motor**

<table>
<thead>
<tr>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ball Screw Drive</strong> Series LEFS</td>
</tr>
<tr>
<td>Size: 25, 32, 40</td>
</tr>
<tr>
<td>Positioning repeatability: ±0.01 mm (High precision type)</td>
</tr>
<tr>
<td>Improved high speed transfer ability</td>
</tr>
<tr>
<td>Max. speed: 1500 mm/s</td>
</tr>
<tr>
<td>High acceleration/deceleration: 20000 mm/s²</td>
</tr>
<tr>
<td>Pulse input type</td>
</tr>
<tr>
<td>With internal absolute encoder (For LECSB/CS)</td>
</tr>
<tr>
<td>Clean room specification also available</td>
</tr>
<tr>
<td>11-LEFS</td>
</tr>
<tr>
<td>Motor parallel type</td>
</tr>
</tbody>
</table>

### Controller/Driver

- **Step data input type**
  - Series LECPS/LECA6 (64 points positioning)

- **CC-Link direct input type**
  - Series LECPMJ

- **Programless type**
  - Series LECPS1 (14 points positioning)

- **Pulse input type**
  - Series LECPA

- **AC Servo Motor**
  - Not applicable to UL.

- **Driver**
  - Not applicable to UL.
  - For absolute encoder
    - Pulse input type
      - Series LECSB
    - CC-Link direct input type
      - Series LECSC
    - SSCNET II type
      - Series LECSS
    - SSCNET II/H type
      - Series LECSS-T
    - MECHATROLINK type
      - Series LECSY
  - For incremental encoder
    - Pulse input type/Positioning type
      - Series LECSA

- **Clean room specification**
Low-profile/Low center of gravity

Height dimension reduced by approx. 36% (Reduced by 32 mm)

<table>
<thead>
<tr>
<th>Series</th>
<th>Work load (kg)</th>
<th>Speed (mm/s)</th>
<th>Motor output (W)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LEJS40</td>
<td>55</td>
<td>600</td>
<td>100</td>
</tr>
<tr>
<td>LJ1H20</td>
<td>30</td>
<td>500</td>
<td>100</td>
</tr>
</tbody>
</table>

Ball Screw Drive  Series LEJS

- Work load: 85 kg
- Positioning repeatability: ±0.01 mm (High precision type)
- Max. speed: 1,800 mm/s
- Max. acceleration/deceleration: 20,000 mm/s²

Belt Drive  Series LEJB

- Max. stroke: 3,000 mm
- Max. speed: 3,000 mm/s
- Max. acceleration/deceleration: 20,000 mm/s²

AC Servo Motor Type

Ball Screw Drive  Series LEJS

- Size: 40, 63
- Clean room specification: ISO Class 4

Belt Drive  Series LEJB

- Size: 40, 63

AC Servo Motor Driver

Incremental Type

- Pulse input type / Positioning type
  Series LECSA

Absolute Type

- Pulse input type
  Series LECSB
- CC-Link direct input type
  Series LECSB
- SSCNET III type
  Series LECS3
- SSCNET III H type
  Series LECS3-T
- MECHATROLINK type
  Series LECSY■

1 ISO14644-1
2 The particle generation characteristics change depending on the suction flow rate.
Guide Rod Slider
Series LEL

Low-profile/Flat
Profile reduced by side mounting of motor

Max. stroke: 1,000 mm
Transfer speed: 1,000 mm/s

No interference with motor, even with large workpieces!

Compatible with sliding bearing and ball bushing bearing

<table>
<thead>
<tr>
<th>Model</th>
<th>Size</th>
<th>Bearing</th>
<th>Stroke [mm]</th>
<th>Work load (Horizontal) [kg]</th>
<th>Speed [mm/s]</th>
<th>Positioning repeatability [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>LEL25M</td>
<td>25</td>
<td>Sliding bearing</td>
<td>Up to 1000</td>
<td>3</td>
<td>Up to 500</td>
<td>±0.08</td>
</tr>
<tr>
<td>LEL25L</td>
<td>25</td>
<td>Ball bushing bearing</td>
<td>Up to 1000</td>
<td>5</td>
<td>Up to 1000</td>
<td>±0.08</td>
</tr>
</tbody>
</table>

Controller

- Step data input type
  Series LEC6
  - 64 points positioning
  - Input using controller setting kit or teaching box

- CC-Link direct input type
  Series LECMJ

- Programless type
  Series LEC1
  - 14 points positioning
  - Control panel setting

* Not applicable to CE.
**Slider Type/Low Profile**

**Series LEM**

**Step Motor (Servo/24 VDC) Type**

**Compact**

- Table height reduced by using belt drive and offset guide.
- Mounting interchangeable with the E-MY series

**Low Profile**

- Guide mechanism can be selected.

**Basic type**

**Series LEMB**
- Light load transfer
- Combining with external guide
- Long stroke

**Cam follower guide type**

**Series LEMC**
- Workpiece direct mounting
- Long stroke

**Linear guide single axis type**

**Series LEMH**
- Workpiece direct mounting
- Provides more moment resistance than the cam follower guide type.
- High speed transfer

**Linear guide double axis type**

**Series LEMHT**
- Workpiece direct mounting
- Provides more moment resistance than the linear guide single axis type.
- High speed transfer

<table>
<thead>
<tr>
<th>Size</th>
<th>Work load (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td>6</td>
</tr>
<tr>
<td>32</td>
<td>11</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Size</th>
<th>Stroke (mm)</th>
<th>Table height (mm)</th>
<th>Speed (mm/s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td>2000</td>
<td>40</td>
<td>1000</td>
</tr>
<tr>
<td>32</td>
<td>2000</td>
<td>40</td>
<td>1000</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Size</th>
<th>Stroke (mm)</th>
<th>Table height (mm)</th>
<th>Speed (mm/s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td>1000</td>
<td>28</td>
<td>1000</td>
</tr>
<tr>
<td>32</td>
<td>1500</td>
<td>37</td>
<td>1000</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Size</th>
<th>Stroke (mm)</th>
<th>Table height (mm)</th>
<th>Speed (mm/s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td>1000</td>
<td>28</td>
<td>2000</td>
</tr>
<tr>
<td>32</td>
<td>1500</td>
<td>37</td>
<td>2000</td>
</tr>
</tbody>
</table>

**Selectable controllability**

- **Step Motor (Servo/24 VDC)**
  - Programless type (With stroke study)
  - End to end operation similar to an air cylinder
  - 2 stroke end points + 12 intermediate points positioning
  - Control panel setting
  - Wire-saving design

- **Programless type**
  - Series LECP1
  - 14 points positioning
  - Control panel setting

- **Step data input type**
  - Series LECP6
  - 64 points positioning

- **CC-Link direct input type**
  - Series LECPMJ
  - Not applicable to CE.
### Electric Actuator  Controller/Driver

#### Rod Type

**Series LEY**

<table>
<thead>
<tr>
<th>Rod Type</th>
<th>Type</th>
<th>Size: 16, 25, 32, 40</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Long stroke</strong></td>
<td>Series LEY</td>
<td>Dust/Drip Proof (IP65) Specification: -X5</td>
</tr>
<tr>
<td><strong>Max. 500 mm</strong></td>
<td>LEY32, 40</td>
<td>+ Size: 25, 32</td>
</tr>
</tbody>
</table>

**Mounting variations**
- Direct mounting: 3 directions, Bracket mounting: 3 types
- Either positioning or pushing control can be selected. Possible to hold the actuator with the rod pushing to a workpiece, etc.

#### Guide Rod Type

**Series LEYG**

<table>
<thead>
<tr>
<th>Guide Rod Type</th>
<th>Type</th>
<th>Size: 16, 25, 32, 40</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Lateral end load:</strong></td>
<td>Series LEYG</td>
<td>Dust/Drip Proof (IP65) Specification: -X5</td>
</tr>
<tr>
<td>5 times more</td>
<td>LEY32, 40</td>
<td>+ Size: 25, 32</td>
</tr>
</tbody>
</table>

**Compatible with sliding bearing and ball bushing bearing.**
- Either positioning or pushing control can be selected. Possible to hold the actuator with the rod pushing to a workpiece, etc.

#### AC Servo Motor

**Not applicable to UL.**

<table>
<thead>
<tr>
<th>Rod Type</th>
<th>Type</th>
<th>Size: 25, 32, 63</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>High output motor</strong></td>
<td>Series LEY</td>
<td>Dust/Drip Proof (IP65) Specification: -X5</td>
</tr>
<tr>
<td>(100/200/400 W)</td>
<td>LEY32, 40</td>
<td>+ Size: 25, 32</td>
</tr>
</tbody>
</table>

- Improved high speed transfer ability
- High acceleration/deceleration compatible (5,000 mm/s²)
- Pulse input/CC-Link/SSCNET III types
- With internal absolute encoder (For LECSB/C/S)

<table>
<thead>
<tr>
<th>Guide Rod Type</th>
<th>Type</th>
<th>Size: 25, 32</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Lateral end load:</strong></td>
<td>Series LEYG</td>
<td>Dust/Drip Proof (IP65) Specification: -X5</td>
</tr>
<tr>
<td>5 times more</td>
<td>LEY32, 40</td>
<td>+ Size: 25, 32</td>
</tr>
</tbody>
</table>

**Compatible with sliding bearing and ball bushing bearing.**
- Either positioning or pushing control can be selected. Possible to hold the actuator with the rod pushing to a workpiece, etc.

#### Step Motor

**Servo Motor (24 VDC)**

<table>
<thead>
<tr>
<th>Step Motor</th>
<th>Controller/Driver</th>
<th>Servo Motor (24 VDC)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Step data input type</strong></td>
<td>Series LECP6/LECA6 (64 points positioning)</td>
<td><strong>AC Servo Motor</strong></td>
</tr>
<tr>
<td><strong>CC-Link direct input type</strong></td>
<td>Series LECPM,J</td>
<td><strong>Driver</strong></td>
</tr>
<tr>
<td><strong>Programless type</strong></td>
<td>Series LECP1 (14 points positioning)</td>
<td><strong>For absolute encoder</strong></td>
</tr>
<tr>
<td><strong>Pulse input type</strong></td>
<td>Series LECPA</td>
<td><strong>Pulse input type</strong></td>
</tr>
<tr>
<td><strong>Positioning type</strong></td>
<td>Series LECSB</td>
<td><strong>Positioning type</strong></td>
</tr>
<tr>
<td><strong>For incremental encoder</strong></td>
<td>Series LECSC</td>
<td><strong>For incremental encoder</strong></td>
</tr>
<tr>
<td><strong>Pulse input type</strong></td>
<td>Series LECPPA</td>
<td>Series LECSS-T</td>
</tr>
<tr>
<td><strong>Positioning type</strong></td>
<td>Series LECSS</td>
<td><strong>MECHATROLINK type</strong></td>
</tr>
<tr>
<td><strong>For absolute encoder</strong></td>
<td>Series LECY</td>
<td>Series LECSS</td>
</tr>
</tbody>
</table>

**Not applicable to CE.**

---

**Size:** 16, 25, 32, 40

- Long stroke: Max. 500 mm (LEY32, 40)
- Mounting variations: Direct mounting: 3 directions, Bracket mounting: 3 types
- Either positioning or pushing control can be selected. Possible to hold the actuator with the rod pushing to a workpiece, etc.

- Lateral end load: 5 times more
  - Compared with rod type, size 25 and 100 stroke
  - Compatible with sliding bearing and ball bushing bearing.
  - Compatible with moment load and stopper (sliding bearing).
  - Either positioning or pushing control can be selected. Possible to hold the actuator with the rod pushing to a workpiece, etc.

- High output motor (100/200/400 W)
- Improved high speed transfer ability
- High acceleration/deceleration compatible (5,000 mm/s²)
- Pulse input/CC-Link/SSCNET III types
- With internal absolute encoder (For LECSB/C/S)

- AC Servo Motor: Not applicable to UL.

---

**Specifications:**
- Dust/Drip Proof (IP65) Specification: -X5
- Long stroke: Max. 500 mm (LEY32, 40)
- Mounting variations: Direct mounting: 3 directions, Bracket mounting: 3 types
- Either positioning or pushing control can be selected. Possible to hold the actuator with the rod pushing to a workpiece, etc.

**Guide Rod Type:**
- Series LEYG
- Size: 16, 25, 32, 40

**AC Servo Motor:**
- Not applicable to UL.

**Step Motor:**
- Servo Motor (24 VDC)
- Step data input type Series LECP6/LECA6 (64 points positioning)
- CC-Link direct input type Series LECPM,J
- Programless type Series LECP1 (14 points positioning)
- Pulse input type Series LECPA
- Not applicable to CE.

**Controller/Driver:**
- For absolute encoder
- Pulse input type Series LECSB
- CC-Link direct input type Series LECSC
- SSCNET III type Series LECSS
- SSCNET III H type Series LECSS-T
- MECHATROLINK type Series LECY □

**For incremental encoder**
- Pulse input type/Positioning type Series LECSS

---

**Types:**
- Rod type
- Guide rod type
- Guide rod type/In-line motor type

**Size:**
- 16, 25, 32, 40

**Applications:**
- High output motor
- Improved high speed transfer ability
- High acceleration/deceleration compatible (5,000 mm/s²)
- Pulse input/CC-Link/SSCNET III types
- With internal absolute encoder (For LECSB/C/S)

---

**Long stroke:**
- Max. 500 mm (LEY32, 40)
- Mounting variations: Direct mounting: 3 directions, Bracket mounting: 3 types
- Either positioning or pushing control can be selected. Possible to hold the actuator with the rod pushing to a workpiece, etc.

**Guide Rod Type:**
- Series LEYG
- Size: 16, 25, 32, 40

**Applications:**
- Dust/Drip Proof (IP65) Specification: -X5
- Lateral end load: 5 times more
  - Compared with rod type, size 25 and 100 stroke
  - Compatible with sliding bearing and ball bushing bearing.
  - Compatible with moment load and stopper (sliding bearing).
  - Either positioning or pushing control can be selected. Possible to hold the actuator with the rod pushing to a workpiece, etc.

**AC Servo Motor:**
- Not applicable to UL.

**Specifications:**
- High output motor (100/200/400 W)
- Improved high speed transfer ability
- High acceleration/deceleration compatible (5,000 mm/s²)
- Pulse input/CC-Link/SSCNET III types
- With internal absolute encoder (For LECSB/C/S)
**Electric Slide Table**

**Series LES**

- **Compact Type Series LES**
  - Workpiece mounting surface height: Reduced by up to 12%
  - Compact type
    - Compact type LES16D
    - Size: 8, 16, 25
  - Basic type/R type
  - Symmetrical type/L type
  - In-line motor type/D type

- **High Rigidity Type Series LESH**
  - Deflection: 0.016 mm
    - LESH16-50
    - Load: 5.6 lbf (25 N)
  - Basic type/R type
    - Series LESH□R
  - Symmetrical type/L type
    - Series LESH□L
  - In-line motor type/D type
    - Series LESH□D

- **Step Motor (Servo/24 VDC)**
  - Step data input type
    - Series LECP6/LECA6
    - 64 points positioning
    - Input using controller setting kit or teaching box

- **Servo Motor (24 VDC)**
  - CC-Link direct input type
    - Series LECPM1
    - 14 points positioning
    - Control panel setting

- **Controller/Driver**
  - Programless type
    - Series LECP1
    - Not applicable to CE.

- **Pulse input type**
  - Series LECPA
Compact and Lightweight

- Maximum pushing force: 11.2 lbf (50 N)
- Positioning repeatability: ±0.05 mm
- Possible to set position, speed and force. (64 points)

**Rod Type Series LEPY**

<table>
<thead>
<tr>
<th>Size</th>
<th>6, 10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>240 g</td>
</tr>
</tbody>
</table>

**Slide Table Type Series LEPS**

<table>
<thead>
<tr>
<th>Size</th>
<th>6, 10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>290 g</td>
</tr>
</tbody>
</table>

Step Motor (Servo/24 VDC)

- Step data input type Series LECPS
  - 64 points positioning
  - Input using controller setting kit or teaching box

- CC-Link direct input type Series LECPMJ

- Programless type Series LECP1
  - 14 points positioning
  - Control panel setting

- Pulse input type Series LECPA

* Not applicable to CE.
Electric Actuator  Controller/Driver

Electric Rotary Table
Series LER

New
Continuous
rotation
specification

Low profile

Step Motor (Servo/24 VDC) Type

Basic type [mm]

<table>
<thead>
<tr>
<th>Model</th>
<th>H</th>
</tr>
</thead>
<tbody>
<tr>
<td>LER10</td>
<td>42</td>
</tr>
<tr>
<td>LER30</td>
<td>53</td>
</tr>
<tr>
<td>LER50</td>
<td>68</td>
</tr>
</tbody>
</table>

High precision type [mm]

<table>
<thead>
<tr>
<th>Model</th>
<th>H</th>
</tr>
</thead>
<tbody>
<tr>
<td>LERH10</td>
<td>49</td>
</tr>
<tr>
<td>LERH30</td>
<td>62</td>
</tr>
<tr>
<td>LERH50</td>
<td>78</td>
</tr>
</tbody>
</table>

Rotation angle: 360°

Shock-less/High speed actuation
Max. speed: 420°/sec (7.33 rad/sec)
Max. acceleration/deceleration: 3,000°/sec² (52.36 rad/sec²)

Positioning repeatability: ±0.03° (High precision type)
Repeatability at the end: ±0.01° (Pushing control/With external stopper)

Rotation angle
360°, 320° (310°), 180°, 90°
The value indicated in brackets shows the value for the LER10.

Possible to set speed, acceleration/deceleration, and position. Max. 64 points

Energy-saving product
Automatic 40% power reduction after the table has stopped.

Step Motor (Servo/24 VDC) Controller/Driver

Step data input type
Series LECP6
- 64 points positioning
- Input using controller setting kit or teaching box

CC-Link direct input type
Series LECPMJ

Programless type
Series LECP1
- 14 points positioning
- Control panel setting

Pulse input type
Series LECPA

* Not applicable to CE.
**Electric Actuator Controller/Driver**

**Electric Gripper**  
*Series LEH*

- **With drop prevention function**  
  (Self-lock mechanism is provided for all series.)  
  Gripping force of the workpieces is maintained when stopped or restarted. The workpieces can be removed with manual override.

- **Compact body sizes and long stroke variations**  
  Gripping force equivalent to the widely used air grippers is available.

- **Possible to set position, speed and force.** (64 points)

---

**Z Type (2 fingers)**  
Compact and light, various gripping forces

<table>
<thead>
<tr>
<th>Series LEHZ</th>
<th>Stroke/batch sides [mm]</th>
<th>Gripping force lbf [N]</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Basic</td>
</tr>
<tr>
<td>10</td>
<td>4</td>
<td>1.3 to 3.1 [6 to 14]</td>
</tr>
<tr>
<td>16</td>
<td>6</td>
<td>3.6 to 9.0 [16 to 40]</td>
</tr>
<tr>
<td>20</td>
<td>10</td>
<td>12 to 29 [52 to 130]</td>
</tr>
<tr>
<td>25</td>
<td>14</td>
<td>19 to 47 [84 to 210]</td>
</tr>
<tr>
<td>32</td>
<td>22</td>
<td></td>
</tr>
<tr>
<td>40</td>
<td>30</td>
<td></td>
</tr>
</tbody>
</table>

---

**ZJ Type (2 fingers)**  
With dust cover (Equivalent to IP50)  
3 types of cover material (Finger portion only)

<table>
<thead>
<tr>
<th>Series LEHZJ</th>
<th>Stroke/batch sides [mm]</th>
<th>Gripping force lbf [N]</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Basic</td>
</tr>
<tr>
<td>10</td>
<td>4</td>
<td>1.3 to 3.1 [6 to 14]</td>
</tr>
<tr>
<td>16</td>
<td>6</td>
<td>3.6 to 9.0 [16 to 40]</td>
</tr>
<tr>
<td>20</td>
<td>10</td>
<td>3.6 to 9.0 [16 to 40]</td>
</tr>
<tr>
<td>25</td>
<td>14</td>
<td></td>
</tr>
</tbody>
</table>

---

**F Type (2 fingers)**  
Can hold various types of workpieces with a long stroke.

<table>
<thead>
<tr>
<th>Series LEHF</th>
<th>Stroke/batch sides [mm]</th>
<th>Gripping force lbf [N]</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Basic</td>
</tr>
<tr>
<td>10</td>
<td>16 (32)</td>
<td>0.7 to 1.6 [3 to 7]</td>
</tr>
<tr>
<td>20</td>
<td>24 (48)</td>
<td>2.5 to 6.3 [11 to 28]</td>
</tr>
<tr>
<td>32</td>
<td>32 (64)</td>
<td>11 to 27 [48 to 120]</td>
</tr>
<tr>
<td>40</td>
<td>40 (80)</td>
<td>16 to 40 [72 to 180]</td>
</tr>
</tbody>
</table>

---

**S Type (3 fingers)**  
Can hold round workpieces.

<table>
<thead>
<tr>
<th>Series LEHS</th>
<th>Stroke/batch sides [mm]</th>
<th>Gripping force lbf [N]</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Basic</td>
</tr>
<tr>
<td>10</td>
<td>4</td>
<td>0.5 to 1.2 [2.2 to 5.5]</td>
</tr>
<tr>
<td>20</td>
<td>6</td>
<td>2.0 to 4.9 [9 to 22]</td>
</tr>
<tr>
<td>32</td>
<td>8</td>
<td>8 to 20 [36 to 90]</td>
</tr>
<tr>
<td>40</td>
<td>12</td>
<td>12 to 29 [52 to 130]</td>
</tr>
</tbody>
</table>

---

**CC-Link direct input type**  
*Series LECPMJ*

- Not applicable to CE.

---

**Step Motor (Servo/24 VDC) Type**

**Step data input type**  
*Series LECPE*  
- 64 points positioning  
- Input using controller setting kit or teaching box

---

**Programless type**  
*Series LECP1*

- 14 points positioning  
- Control panel setting

---

**Pulse input type**  
*Series LECPA*
Motorless Type

Your motor and driver can be used together!
Manufacturers of compatible motors: 8 companies

<table>
<thead>
<tr>
<th>Mitsubishi Electric Corporation</th>
<th>YASKAWA Electric Corporation</th>
</tr>
</thead>
<tbody>
<tr>
<td>SANYO DENKI CO., LTD.</td>
<td>OMRON Corporation</td>
</tr>
<tr>
<td>Panasonic Corporation</td>
<td>FANUC CORPORATION</td>
</tr>
<tr>
<td>FASTECH Co., Ltd.</td>
<td>Rockwell Automation, Inc.</td>
</tr>
<tr>
<td></td>
<td>(Allen-Bradley)</td>
</tr>
</tbody>
</table>

### Slider Type  Series LEF

#### Ball Screw Drive/Series LEFS

<table>
<thead>
<tr>
<th>Size</th>
<th>Stroke</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td>50 to 600</td>
</tr>
<tr>
<td>32</td>
<td>50 to 800</td>
</tr>
<tr>
<td>40</td>
<td>150 to 1000</td>
</tr>
</tbody>
</table>

#### Belt Drive/Series LEFB

<table>
<thead>
<tr>
<th>Size</th>
<th>Stroke</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td>300 to 2000</td>
</tr>
<tr>
<td>32</td>
<td>300 to 2500</td>
</tr>
<tr>
<td>40</td>
<td>300 to 3000</td>
</tr>
</tbody>
</table>

### High Rigidity Slider Type  Series LEJ

#### Ball Screw Drive/Series LEJS

<table>
<thead>
<tr>
<th>Size</th>
<th>Stroke</th>
</tr>
</thead>
<tbody>
<tr>
<td>40</td>
<td>200 to 1200</td>
</tr>
<tr>
<td>63</td>
<td>300 to 1500</td>
</tr>
</tbody>
</table>

### Rod Type  Series LEY

<table>
<thead>
<tr>
<th>Size</th>
<th>Stroke</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td>30 to 400</td>
</tr>
<tr>
<td>32</td>
<td>30 to 500</td>
</tr>
<tr>
<td>63</td>
<td>100 to 800</td>
</tr>
</tbody>
</table>

### Guide Rod Type  Series LEYG

<table>
<thead>
<tr>
<th>Size</th>
<th>Stroke</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td>30 to 300</td>
</tr>
<tr>
<td>32</td>
<td>30 to 300</td>
</tr>
</tbody>
</table>

Belt drive  Series LEFB

Ball screw drive  Series LEFS

Ball screw drive  Series LEJS

Belt drive  Series LEFB

Ball screw drive  Series LEFS

Motorless Type
Copper (Cu) and Zinc (Zn) Free*
* Except motors, cables, controllers/drivers

Compatible with a low dew point –94°F (-70°C)
• Using grease compatible with a low dew point

Series Variations

**Slider Type/Ball Screw Drive**
25A-LEFS

- **Step Motor (Servo/24 VDC)**
- **Servo Motor (24 VDC)**
- **AC Servo Motor**

**Bolts**
Material: Stainless steel

Motor type
- Step motor (Servo/24 VDC)
- Servo motor (24 VDC)
- AC servo motor

Size
- 16
- 25
- 32
- 40

**High Rigidity Slider Type/Ball Screw Drive**
25A-LEJS

- **AC Servo Motor**

**Bolts**
Material: Stainless steel

Motor type
- AC servo motor

Size
- 40
- 63

**Rod Type**
25A-LEY

- **Step Motor (Servo/24 VDC)**
- **Servo Motor (24 VDC)**
- **AC Servo Motor**

**Bushing**
Material: Steel bearing alloy

Motor type
- Step motor (Servo/24 VDC)
- Servo motor (24 VDC)

Size
- 16
- 25
- 32
- 40

* Copper and zinc materials are used for the motors, cables, controllers/drivers.

Note) Except AC servo motor
**Clean Room Specification**

**ISO Class 4** *(ISO14644-1)!*
- Built-in vacuum piping
- Possible to mount the main body without removing the external cover etc.
- Body-integrated linear guide specification
- 1 Changes depending on the suction flow rate.

**Slider Type Ball Screw Drive/ Series 11-LEFS**
- AC Servo Motor (24 VDC) Type

**High Rigidity Slider Type Ball Screw Drive/ Series 11-LEJS**
- AC Servo Motor (24 VDC) Type

**Dust/Drip Proof Specification**
- Enclosure: IP65
- Max. stroke: 500 mm
- For size 32

**Seal connector**
Prevents dust and water droplets from entering between the cable and motor cover.

**Aluminum cover**
Protects the motor.

**Vent hole**
Reduces internal pressure fluctuation to prevent dust and water droplets from entering.

**Groove for auto switch**
Water resistant type (Coolant)
For checking the limit and intermediate signal
- Order the water resistant 2-color indication solid state auto switch separately.

**Support Guide/Series LEFG**
A support guide is designed to support work pieces with significant overhang.
- As the dimensions are the same as the LEF series body, installation is simple and contributes to a reduction in installation and assembly labor.
- The standard equipped seal bands prevent grease from splashing and external foreign matter from entering.

**Electric Stopper Cylinder/ Series LEBH-X3**
- No controller used, only ON/OFF control
- Holding current: 0.2* or less
- When retracted
- Air Cylinder Compatible with Heavy Duty Stopper Cylinder series RS2H

**Electric Stopper Cylinder/ Series LEBQ**
- Suitable for conveyor lines without an air supply
Controller

**Step Data Input Type**
- For step motor: Series LECP6
- For servo motor: Series LECA6

**Programless Type**
- Series LECP1
  - (With stroke study)
  - Series LECP2

**Pulse Input Type**
- Series LECPA

**Control motor**
- Step Motor (Servo/24 VDC)
- Servo Motor (24 VDC)

**Fieldbus Network**
- **CC-Link Direct Input Type** Series LECPMJ
- **Gateway Unit** Series LEC-G

<table>
<thead>
<tr>
<th>Applicable Fieldbus protocols</th>
<th>CC-Link</th>
<th>DeviceNet</th>
<th>Ethernet/IP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. number of connectable controllers</td>
<td>42/32/16</td>
<td>12</td>
<td>8</td>
</tr>
</tbody>
</table>

* Depending on the mode setting

**Compatible Actuator**

**Slider Type**
- Series LEF

**Guide Rod Slider Type**
- Series LEL

**Low Profile Slider Type**
- Series LEM

**Rod Type**
- Series LEY

**Guide Rod Type**
- Series LEYG

**Miniature Type**
- Series LEPY/LEPS

**Electric Slide Table**
- Series LES/LESH

**Electric Rotary Table**
- Series LER

**Electric Gripper**
- Series LEH

* Not compatible with the LECA6.

* Not compatible with the LECA6 and LECPA.
### Electric Actuator Controller/Driver

#### Driver

| AC Servo Motor Driver | Pulse Input Type/Positioning Type | Control motor | AC servo motor  
|-----------------------|----------------------------------|---------------|-----------------  
|                       | Series LECSA                      | Control motor | AC servo motor (100/200 VAC)  
|                       |                                  |               |                  
|                       | Pulse Input Type                 | Control motor | AC servo motor (100/200 VAC)  
|                       | Series LECSB                      |               |                  
|                       | CC-Link Direct Input Type         | Control motor | AC servo motor (100/200 VAC)  
|                       | Series LE CSC                     |               |                  
|                       | SSCNET III Type                   | Control motor | AC servo motor (100/200 VAC)  
|                       | Series LE CSS                     |               |                  

#### Compatible Actuator

| Rod Type | Series LEY  
|----------|------------  
| Guide Rod Type | Series LEYG  

| Slider Type | Series LEF  
|-------------|------------  
| Slider Type/High Rigidity | Series LEJ  

---

RoHS
Card Motor  

**Series LAT3**

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

- **Linear guide**
- **Linear motor**
- **Displacement sensor**

**3 functions in 1 unit**

**Weight**

- 130 g
- Stroke: 10 mm

**Thickness**

- 9 mm

---

**Maximum pushing force**

1.3 lbf (6N)

- Pushing a miniature load
- Example: Pushing a probe pin

---

**Pushing measurement accuracy**

±10 µm

- Parts measurement
- (Measured value is displayed)

---

**Positioning repeatability**

±5 µm

- Positioning a workpiece
- Example: Lens focusing

---

**Maximum operating frequency**

500 cpm

- Rejection of non-conforming products, etc.
- Load mass: 100 g, Stroke 5 mm

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For details about this pamphlet, refer to the “New Products” section of the SMC website.

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International inquiries: www.smcworld.com

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