Electric Actuators

at the push of a button
Electric Actuators

Simplified Options

Electric Cylinders
Looking for a simple electric cylinder that can be operated like an air cylinder for simple end to end motion? Then the LZ electric cylinder available in two sizes and driven with a 24VDC motor should fit the bill. When used in combination with the LC3 directional control driver which is operated with ON/OFF signals similar to that used for a solenoid valve, cylinder speeds up to 200mm/s and thrust up to 196N are possible. Available with multiple mounting options and strokes up to 200mm this cylinder is the perfect solution for simple applications where there is no compressed air supply.

e-Rodless Actuators
These rodless actuators combine the speed, controllability and performance of an electric actuator with the easy functionality of an air cylinder through the use of a simple and quick three step set-up operation. With a belt driven construction and strokes between 50 -1000mm this actuator is capable of velocities up to 1000 mm/sec and 0.5g acceleration. Available in two sizes with either a cam follower guide or high precision type for maximum payloads of 5 or 10kg.

Short Stroke type Electric Actuators
Currently available in three compact model types, a low profile slide table (LXF), a guide rod type (LXP) and a slide table version with increased rigidity (LXS). Incorporating either 2 or 5 phases stepper motors, these high performance actuators deliver some really impressive muscle power and can move loads of up to 10kg at speeds up to 200mm/sec. Additionally, they are also highly accurate, with position repeatability of between +/- 0.03 and +/- 0.05 mm dependent on model type.

More Advanced Options

Single Axis Electric Actuator
This comprehensive range of electric actuators is available with two types of precise linear guides and three types of feed screws and are also designed for use with our LC8 Positioning. With high positioning accuracy, dual mounting and multiple cable entry options, these actuators are designed to provide X-Y axis capability and are the perfect solution for pick and place and palletizing operations.

Low profile Single Axis Electric Actuator
With its space saving design, this compact electric actuator, with top or bottom mounting options, offers high rigidity and high linear precision guide control. Designed for use with our latest Series LC8 Positioning Driver for AC servomotors, these actuators offer excellent accuracy and high production flexibility.

Electric Actuator with Integrated Guide
This light weight and compact actuator is the result of designing an integrated linear guide into the support frame to form a one piece structure. Additionally the circulating type ball bearing linear guide and martensitic stainless steel frame create a table with high rigidity and high sliding accuracy. Available in two sizes with 100 & 200W AC servomotors for use with the LC8 positioning driver, this actuator is perfect for use in high performance applications wanting a space saving design.
**Electric Cylinders**

**Basic Specifications**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thrust</td>
<td>Up to 80 N (LDZ□3) Up to 196 N (LDZ□5)</td>
</tr>
<tr>
<td>Speed</td>
<td>Up to 200 mm/s</td>
</tr>
<tr>
<td>Standard strokes</td>
<td>25, 40, 100, 200 mm</td>
</tr>
<tr>
<td>Motor type</td>
<td>24 VDC</td>
</tr>
</tbody>
</table>

*Contact SMC for detailed specifications and how to order*

**Features**

- Able to control the stroke with only ON/OFF signals. It can be operated like an air cylinder.
- Simple extension and retraction motion control
- Pressure control
- Suitable for an environment where an air supply is not available.

**Series LZB**

**Series Lzc**
Electric Actuators

Two sizes that offer an equivalent thrust to a Ø16 and Ø25 air cylinder.

**Dimensions**

<table>
<thead>
<tr>
<th>Model</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>LDZB 3</td>
<td>216.5</td>
<td>38</td>
<td>14</td>
</tr>
<tr>
<td>LDZB 5</td>
<td>285.5</td>
<td>54.5</td>
<td>22</td>
</tr>
<tr>
<td>LDZC 3</td>
<td>203</td>
<td>38</td>
<td>14</td>
</tr>
<tr>
<td>LDZC 5</td>
<td>268</td>
<td>54.5</td>
<td>22</td>
</tr>
</tbody>
</table>

**Series LZB Cover options**

- Partially covered
- Fully covered

**Series LZB Mounting brackets**

- Foot
- Front flange
- Front trunnion

**Variations**

<table>
<thead>
<tr>
<th>Series</th>
<th>Cylinder Size</th>
<th>Guide type</th>
<th>Mounting orientation</th>
<th>Lead screw type</th>
<th>Sensor</th>
</tr>
</thead>
<tbody>
<tr>
<td>LDZB</td>
<td>3</td>
<td>None</td>
<td>Horizontal</td>
<td>Slide screw</td>
<td>Auto switch</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td></td>
<td>Vertical</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LZDC</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**LC3F** Directional Control Driver for Electric Cylinder

- **Able to control the stroke with only ON/OFF signals.**
  Directional control driver works like a solenoid valve.

- **Able to optionally set the thrust.**
  Thrust can be adjusted by an adjustment trimmer.

- **Can be operated manually.**
  Easy maintenance performance for checking wiring.

- **Able to control with only 3 different types of input signal.**
  1. Directional instruction
  2. Thrust selection
  3. Output ON/OFF

**System Overview**

![System Overview Diagram]

- **PLC**
- **Directional control driver for electric cylinder Series LC3F2**
- **24 VDC power supply**
- **Auto switch D-M9**
- **Terminal box**
- **AC power supply**
- **Electric cylinder Series LZB/LZC**
Electric Actuators

**E-MY2** e-Rodless Actuator

**Basic Specifications**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum load weight</td>
<td>Up to 5 kg (E-MY2□16)</td>
</tr>
<tr>
<td></td>
<td>Up to 10 kg (E-MY2□25)</td>
</tr>
<tr>
<td>Speed</td>
<td>100 up to 1000 mm/s</td>
</tr>
<tr>
<td>Standard strokes</td>
<td>100, 200, 300, 400, 500, 600, 700, 800, 900, 1000 mm</td>
</tr>
<tr>
<td>Motor type</td>
<td>Stepper with encoder</td>
</tr>
</tbody>
</table>

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**High precision guide type**

Series E-MY22H

**Cam follower guide type**

Series E-MY22C

**New Actuator Concept**

Having both the operational ability of an air cylinder and the speed controllability of an electric actuator

**What does “e” mean?**

We called this product our “e-actuator” using the first letter from the word “Easy”. This name was adapted following some earlier customer feedback-easy to start and set up. We hope that the simple title will help for long term name recognition in the factory automation industry.
Realising electric controllability similar to that of an air cylinder by 3 step operation

1. Stroke adjustment
   1. Movable stroke adjusting unit
   2. Small incremental adjustments can be made by using an adjusting bolt

2. Stroke learning
   Press STROKE STUDY switch

3. Speed and acceleration setting
   Adjust SPEED, ACCELERATION

Features

- Easy Maintenance
  The actuating part and the guide unit can be separated from the cylinder body.

- Manual Operation Is Possible.

- Motor Placement
  Mounting position of the motor is user selectable and can either be on the top, bottom, left, or right of the actuator.

- Acceleration and deceleration can be set from 0.49 up to 4.90 m/s²
Remote Control Type

Easy to reset after installation as a result of the remote controller.
Suitable for installing where it is difficult to reach because the controller can be operated in an easily accessible location.

- Cable length is selectable from 1 m, 3 m and 5 m
- Improvement in the maximum operating temperature from 40°C to 50°C (Actuator part only)
- Mounting method can be selected among 3 types

Direct mount  |  DIN rail mount  |  L-bracket mount

Position Repeatability

<table>
<thead>
<tr>
<th></th>
<th>Both ends</th>
<th>Intermediate</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>±0.01 mm</td>
<td>±0.1 mm</td>
</tr>
</tbody>
</table>

Intermediate Stops are Possible.

- **3-points stoppable type**
  (2-point for both ends and 1-point for an intermediate stop)

- **5-points stoppable type**
  (2-point for both ends and 3-points for intermediate stop)

Stop Function by External Input (5-point stoppable type only)

Stop command by an external input such as a PLC or PC makes it possible to decelerate or stop a slider (as programmed).

Application example 1
Quick start-up is possible after stopping.

<table>
<thead>
<tr>
<th>Stop method</th>
<th>Stop by external input</th>
<th>Emergency stop</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stopping acceleration</td>
<td>Value of switch for setting acceleration</td>
<td>4.9 m/s²</td>
</tr>
<tr>
<td>(deceleration)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Initial speed</td>
<td>Value of the switch for setting the speed</td>
<td>50 mm/s</td>
</tr>
<tr>
<td>after restarting</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Settings for emergency acceleration and speed cannot be changed.

Application example 2
Signal from auto switches on the e-rodless cylinder can make it decelerate or stop.

Variations

<table>
<thead>
<tr>
<th>Series</th>
<th>Nominal Size</th>
<th>Guide type</th>
<th>Mounting orientation</th>
<th>Drive type</th>
<th>Sensor</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-MY2C</td>
<td>16</td>
<td>Cam follower guide</td>
<td>Horizontal</td>
<td>Belt drive</td>
<td>Auto switch</td>
</tr>
<tr>
<td></td>
<td>25</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E-MY2H</td>
<td>16</td>
<td>High precision guide</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>25</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Short Stroke Electric Actuators

Guide Variations

Series LX\text{F}

Low profile slide table type with stepper motor

**Basic Specifications**

<table>
<thead>
<tr>
<th>Maximum work load</th>
<th>Up to 3 kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speed</td>
<td>Up to 200 mm/s</td>
</tr>
<tr>
<td>Standard strokes</td>
<td>25, 50, 75, 100 mm</td>
</tr>
<tr>
<td>Motor type</td>
<td>Stepper</td>
</tr>
</tbody>
</table>

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Thickness: 31 mm

Without brake

Series LX\text{P}

Guide rod type with stepper motor

**Basic Specifications**

<table>
<thead>
<tr>
<th>Maximum work load</th>
<th>Up to 6 kg (Horizontal mounting) Up to 5 kg (Vertical mounting)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speed</td>
<td>Up to 200 mm/s</td>
</tr>
<tr>
<td>Standard strokes</td>
<td>50, 75, 100, 150, 175, 200 mm</td>
</tr>
<tr>
<td>Motor type</td>
<td>Stepper</td>
</tr>
</tbody>
</table>

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Use as lifter

Without brake

With brake
Electric Actuators

Short Stroke Electric Actuators

Series LX

High rigidity slide table type with stepper motor

**Basic Specifications**

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum work load</td>
<td>Up to 6 kg (Horizontal mounting)</td>
<td>Up to 5 kg (Vertical mounting)</td>
</tr>
<tr>
<td>Speed</td>
<td>Up to 200 mm/s</td>
<td></td>
</tr>
<tr>
<td>Standard strokes</td>
<td>50, 75, 100, 150, 175, 200 mm</td>
<td></td>
</tr>
<tr>
<td>Motor type</td>
<td>Stepper</td>
<td></td>
</tr>
</tbody>
</table>

* Contact SMC for detailed specifications and how to order

All short stroke electric actuators have a position repeatability of ±0.05 for the slide screw and ±0.03 for the ball screw.

**Variations**

<table>
<thead>
<tr>
<th>Series</th>
<th>Motor type (Stepper motor)</th>
<th>Guide type</th>
<th>Mounting orientation</th>
<th>Lead screw type</th>
<th>Sensor</th>
</tr>
</thead>
<tbody>
<tr>
<td>LXF</td>
<td>5 phase</td>
<td>Direct acting guide</td>
<td>Horizontal</td>
<td>Ball screw</td>
<td>Auto switch Proximity switch</td>
</tr>
<tr>
<td>LXP</td>
<td>2 phase</td>
<td>Ball bushing</td>
<td>Horizontal</td>
<td>Slide screw</td>
<td>Auto switch</td>
</tr>
<tr>
<td>LXS</td>
<td>5 phase</td>
<td>High rigidity</td>
<td>Vertical</td>
<td>Ball screw</td>
<td>Auto switch Proximity switch</td>
</tr>
</tbody>
</table>

**LC6D Stepper Motor Driver**

- Can be mounted on a DIN rail
- Driver position controlled by a pulse signal
- Can be controlled by a general positioning unit or controller
- Full or half step operation is possible

**System Overview**

Stepper Motor Driver LC6D

To power supply

Electric Actuator LX
**Series LJ1  Single Axis Electric Actuator**

- High rigidity linear guide or slider guide

**Series LG1  Low Profile Electric Actuator**

- Low profile: 55 mm

**Series LTF  Electric Actuator with Integrated Guide**

- Incorporating recirculating ball frame-type linear guide

**Series LC8  Positioning Driver (for AC servomotor)**

- Up to 117 programmable positioning steps can be operated using I/O from a PLC.
- All system parameters can be set using an easy to use Windows® based software.
- Up to 6 slave units can be attached for multi-axis systems.
- For use with Series LJ1, LG1 and LTF electric actuators.

For use with Series LJ1, LG1 and LTF electric actuators.
Single Axis Electric Actuator

**LJ1H/High Rigidity Direct Acting Guide**

**LJ1S/Slider Guide**

### Basic Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum work load</td>
<td>Up to 60 kg</td>
</tr>
<tr>
<td>Speed</td>
<td>Up to 1000 mm/s</td>
</tr>
<tr>
<td>Standard strokes</td>
<td>100, 200, 300, 400, 500, 600, 800, 1000, 1200, 1500 mm</td>
</tr>
<tr>
<td>Motor type</td>
<td>AC Servomotor</td>
</tr>
</tbody>
</table>

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### Features

- **High rigidity**
  - High rigidity achieved by the use of a hollow box type aluminum construction.

### Table Traveling Accuracy

<table>
<thead>
<tr>
<th>Model</th>
<th>Traveling accuracy / 300mm</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>C side against A side</td>
</tr>
<tr>
<td>LJ1H10</td>
<td>0.07 or less</td>
</tr>
<tr>
<td>LJ1H20</td>
<td>0.06 or less</td>
</tr>
<tr>
<td>LJ1H30</td>
<td>0.03 or less</td>
</tr>
<tr>
<td>LJ1S10</td>
<td>0.015 or less</td>
</tr>
<tr>
<td>LJ1S20</td>
<td>0.1 or less</td>
</tr>
<tr>
<td>LJ1S30</td>
<td>0.1 or less</td>
</tr>
</tbody>
</table>

### Variations

<table>
<thead>
<tr>
<th>Series</th>
<th>Motor type</th>
<th>Guide type</th>
<th>Mounting orientation</th>
<th>Lead screw type</th>
</tr>
</thead>
<tbody>
<tr>
<td>LJ1H10</td>
<td>AC servomotor 50W</td>
<td>High rigidity direct acting guide</td>
<td>Horizontal</td>
<td>Ground ball screw</td>
</tr>
<tr>
<td>LJ1H20</td>
<td>AC servomotor 100W</td>
<td></td>
<td></td>
<td>Rolled ball screw</td>
</tr>
<tr>
<td>LJ1H30</td>
<td>AC servomotor 200W</td>
<td></td>
<td></td>
<td>Slide screw</td>
</tr>
<tr>
<td>LJ1S10</td>
<td>AC servomotor 50W</td>
<td>Slider guide</td>
<td>Horizontal</td>
<td></td>
</tr>
<tr>
<td>LJ1S20</td>
<td>AC servomotor 100W</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LJ1S30</td>
<td>AC servomotor 200W</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**Basic Specifications**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum work load</td>
<td>Up to 30 kg</td>
</tr>
<tr>
<td>Speed</td>
<td>Up to 1000 mm/s</td>
</tr>
<tr>
<td>Standard strokes</td>
<td>100, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 1200 mm</td>
</tr>
<tr>
<td>Motor type</td>
<td>AC Servomotor</td>
</tr>
</tbody>
</table>

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**Features**

- **Low Profile/Reduced Height**
  - Low profile: 55 mm (35 mm less than LJ1H20)

- **Positioning Repeatability**
  - Slide screw: ±0.1 mm
  - Rolled ball screw: ±0.05 mm
  - Ground ball screw: ±0.02 mm

- **Table traveling accuracy**
  - Model: LG1H
  - C side against A side: 0.1 or less
  - D side against B side: 0.1 or less

- **Variations**
  - Series: LG1□H21
  - Motor type: AC Servomotor 100W
  - Guide type: High rigidity direct acting guide
  - Mounting Orientation: Horizontal
  - Lead screw type: Ground ball screw, Rolled ball screw, Slide screw

- **Two types of body material**
  - In addition to aluminum frames, stainless steel frames are available for customers requiring more rigidity.

- **Two mounting styles**
  - Bottom mount
  - Top mount
**Electric Actuators**

**LTF** Electric Actuator with Integrated Guide

### Basic Specifications

<table>
<thead>
<tr>
<th></th>
<th>LTF6</th>
<th>LTF8</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Overall length</strong></td>
<td>357.5 mm</td>
<td>412 mm</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>2.2 kg</td>
<td>4.6 kg</td>
</tr>
<tr>
<td><strong>Max. stroke</strong></td>
<td>600 mm</td>
<td>1000 mm</td>
</tr>
</tbody>
</table>
| * Value for standard motor with 100 mm stroke

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### Features

- **Linear guide with recirculating type ball bearing**

  Linear guide with recirculating type ball bearing
  The material of the guide is martensitic stainless steel

### Space saving and lightweight design

The linear guide is built into the actuator body

<table>
<thead>
<tr>
<th>Model</th>
<th>Cross section dimensions for LTF6</th>
<th>Cross section dimensions for LTF8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall length</td>
<td>357.5 mm</td>
<td>412 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>2.2 kg</td>
<td>4.6 kg</td>
</tr>
<tr>
<td>Max. stroke</td>
<td>600 mm</td>
<td>1000 mm</td>
</tr>
</tbody>
</table>

### Slide running accuracy

<table>
<thead>
<tr>
<th>Model</th>
<th>Slide running accuracy / 200mm</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>C side against A side</td>
</tr>
<tr>
<td>LTF6</td>
<td>0.02 or less</td>
</tr>
<tr>
<td>LTF8</td>
<td>0.02 or less</td>
</tr>
</tbody>
</table>

### Position Repeatability

<table>
<thead>
<tr>
<th>Screw Type</th>
<th>Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rolled ball screw</td>
<td>±0.05 mm</td>
</tr>
<tr>
<td>Ground ball screw</td>
<td>±0.02 mm</td>
</tr>
</tbody>
</table>

### Variations

<table>
<thead>
<tr>
<th>Series</th>
<th>Motor type</th>
<th>Guide</th>
<th>Mounting orientation</th>
<th>Lead screw type</th>
</tr>
</thead>
<tbody>
<tr>
<td>LTF6</td>
<td>AC Servomotor 100W</td>
<td>Actuator body with built-in linear guide</td>
<td>Horizontal</td>
<td>Rolled ball screw</td>
</tr>
<tr>
<td>LTF8</td>
<td>AC Servomotor 200W</td>
<td></td>
<td></td>
<td>Ground ball screw</td>
</tr>
</tbody>
</table>
SMC's Customised Proposals for Automation

An integrated pneumatic/electric solution which can be fully optimised for each application.

A system designed and produced by SMC's skilled automation team in conjunction with the customer.

A system that provides the perfect solution from simple single motion products right up to full pick and place modules.

Please contact SMC if you require further information or would like to arrange for one of our sales engineers to call you.

Individual catalogues

<table>
<thead>
<tr>
<th>Hardware</th>
</tr>
</thead>
<tbody>
<tr>
<td>(X-Y)</td>
</tr>
<tr>
<td>Z-axis</td>
</tr>
<tr>
<td>θ-axis</td>
</tr>
<tr>
<td>End effector (Gripping)</td>
</tr>
<tr>
<td>Positioning work (Securing, Clamping)</td>
</tr>
</tbody>
</table>

This leaflet contains only limited product information. If you require any further technical assistance on any of the products contained in this document, please refer to our individual products catalogues, our product information available on cd, our web page: www.smceu.com or by contacting your nearest SMC office.
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