ELECTROMECHANICAL CYLINDERS

Industrial light duty applications

Linearmech electromechanical linear actuators are easy-to-use and reliable products. Great and convenient alternative to the use of pneumatic cylinders recommended in case of medium to low speed application, intermittent duty cycle operation and self-locking requirement when load is applied, both pull or push load.

The light duty electromechanical alternative to fluid driven technology
Linearmech electromechanical cylinders
Easy-to-use and reliable products

Linearmech electromechanical actuators are available with **acme screw drive**, recommended for intermittent operation and self-locking condition; also available with **ball screw drive**, recommended in case of medium-high operating cycle. Linearmech cylinders are successfully applied in **industrial applications and automation**, food industry, medical industry, construction equipment and agricultural machinery, marine applications, vehicle automation for disabled and every time is required a **reliable, technological and good quality product** to perform a linear movement.

Available with AC or DC motors. Wide range of mounting accessories and positioning control (limit switches, encoder, potentiometer). Linearmech linear actuators are easy-to-use products with compact dimensions, robust and maintenance-free construction.

**Linearmech** electromechanical cylinders consist of 3 main series: **LMR Series, ATL and BSA Series, CLA and CLB Series.**

**Limit Switches Option**

<table>
<thead>
<tr>
<th>Integrated</th>
<th>Protected in limit switches box (IP65)</th>
<th>External</th>
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</thead>
<tbody>
<tr>
<td>Electric limit switches, cam-operated, available on LMR Series actuators. The set-up of switches position is very easy and intuitive. The cam design hold the position detection in every condition. Built-in limit switches, placed inside the profile dimensions. Available on request FC2X option (switches internally wired between power supply and electric motor, to switch-off the motor supply directly without relays).</td>
<td>Electric limit switches, cam-operated, protected under a sealed cover (IP65), available on <strong>CLA and CLB Series</strong> actuators. Available on request FC2X option (switches internally wired between power supply and electric motor, to switch-off the motor supply directly without relays, DC and AC 1-phase motor only).</td>
<td>Magnetic reeds fixed with support clamps to actuator's protective tube. Available on <strong>ATL and BSA Series</strong> actuators. Used to determine any intermediate position in the working stroke. The set-up of switches position is very easy and intuitive.</td>
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www.linearmech.com
**LMR Series**
Compact design linear actuators
Electromechanical actuators with right angle design motor
Acme screw drive
Input drive with worm gear

*3 standard sizes available*
Load capacity push-pull up to **6,000 N**
Linear speed up to 52 mm/s

Electric motors available: DC motors (12V, 24V, 36V).
Electric limit switches, integrated and easy to set-up.
Incremental encoder for position control.

**ATL and BSA Series**
Robust and reliable linear actuators
Electromechanical actuators with right angle design motor
Aluminum alloy housing with high resistance
Input drive with worm gear

**ATL Series:** acme screw drive
**BSA Series:** ball screw drive

*5 standard sizes available*
Load capacity push-pull up to **11,000 N**
Linear speed up to 150 mm/s

Electric motors available: DC motors, AC motors (1-phase or 3-phase).
Magnetic and electromechanical external limit switches available.

**CLA and CLB Series**
Linear actuators with limit switches and potentiometer
Electromechanical actuators with right angle design motor
Aluminum alloy housing with high resistance
Input drive with worm gear

**CLA Series:** acme screw drive
**CLB Series:** ball screw drive

*5 standard sizes available*
Load capacity push-pull up to **10,000 N**
Linear speed up to 100 mm/s

Electric motors available: DC motors, AC motors (1-phase or 3-phase).
Cam-operated limit switches and rotary potentiometer protected under a sealed cover (IP65).
Main features

Linearmech electromechanical cylinders consist of 3 main series: LMR Series, ATL and BSA Series, CLA and CLB Series. Each family is designed and developed to represent a series of sizes with an adequate reciprocal gauge, to allow an easier selection of the most suitable size in terms of performances and costs for each application.

<table>
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<th>LMR Series</th>
<th>ATL and BSA Series</th>
<th>CLA and CLB Series</th>
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<tr>
<td>Motors available: DC 12V, 24V, 36V Integrated electric limit switches</td>
<td>Motors available: DC12V, DC24V, AC 1-phase, AC 3-phase External limit switches (magnetic/electric)</td>
<td>Motors available: DC12V, DC24V, AC 1-phase, AC 3-phase Electric limit switches and potentiometer (IP65)</td>
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<tr>
<td>3 standard sizes Load capacity up to 6.000 N</td>
<td>5 standard sizes Load capacity up to 11.000 N</td>
<td>5 standard sizes Load capacity up to 10.000 N</td>
</tr>
<tr>
<td>Standard stroke length up to 500 mm Linear speed up to 52 mm/s</td>
<td>Standard stroke length up to 500 mm Linear speed up to 150 mm/s</td>
<td>Standard stroke length up to 1.000 mm Linear speed up to 100 mm/s</td>
</tr>
<tr>
<td>Acme screw drive</td>
<td>ATL Series acme screw drive BSA Series ball screw drive</td>
<td>CLA Series acme screw drive CLB Series ball screw drive</td>
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Quality, Technology and Innovation. Our commitment.

Servomech produce a wide range of electromechanical linear actuators and screw jacks, ball screw and nuts, electromechanical servo actuators, completely manufactured inside the Servomech factory in Bologna - ITALY.

High technology and accuracy in manufacturing, inspections and controls during the entire production process for a constant quality over the time.

Technical support in product selection; on request, custom-based product execution to meet your specific application requirements.

Ball screw and nuts made by Servomech. Available on request:
- Ball screws with ISO IT3 or IT5 accuracy grade, according to application requirements
- Ball nuts zero backlash or preloaded

For more information, please contact our sales/technical support at sales@servomech.com or visit our web site www.servomech.com