ELECTROMECHANICAL SERVOACTUATORS
High Performance

SA PD Series

SA Series

SA IL Series

5 GOOD REASONS TO GO ELECTRIC

1. IMPROVE THE EFFICIENCY BY REDUCING ENERGY CONSUMPTION
2. BETTER CONTROL: POSITION - SPEED - FORCE
3. POSITIONING ACCURACY AND REPEATABILITY
4. GREAT SAFETY AND REALIABILITY
5. SAVE MONEY: EASIER INSTALLATION AND LESS MAINTENANCE

Linearmech electromechanical servo-actuators with brushless servomotors are a powerful alternative to the use of pneumatic cylinders in case of high dynamics (high speed, acceleration and deceleration, frequent back and forth inversion of the movement), precise positioning and high energy efficiency.

The right alternative to pneumatic cylinders
Linearmech servo-actuators
Modular construction system

Features
Characterized by sturdy and compact structure, the Linearmech servo-actuators adopt fully innovative solutions, ranking in the high-end segment of automation components. All internal parts have been purposely studied and designed to operate under conditions of high dynamics: high linear speeds, low inertia of components, extreme positioning precision and repeatability, reliability and long service life.

Integrated ball screw drive, manufactured by Servomech. Wide range of fixing elements according to the ISO 15552 standard of pneumatic cylinders, for a total and simple interchangeability with the existing pneumatic cylinders.

Modular structure, in-line or parallel design configuration.
Available with a complete servomotor package or the mechanical linear unit only with customized motor interface for servomotors of the main brands on trade.

7 different standard sizes available
Ball screw from Ø 12 mm to Ø 40 mm
Load capacity up to 46 kN
Linear speed up to 1,500 mm/s
Electric limit switches
Incremental or absolute encoder

Construction Technologies

**HDE TECHNOLOGY**
Low inertia to operate in highly dynamic conditions.
High quality materials for great strength and reduced weight.
Internal compensation of air flows to avoid waste of energy during functioning.
Contactless seals to avoid wear, overheating and efficiency losses due to friction.

**S4M TECHNOLOGY**
Precise and stiff transmission of motion without angular backlash.
Angular ball bearings or tapered roller bearings as standard option.
Thrust frontal guide to improve the support even in case of lateral loads.

**ARMS TECHNOLOGY**
Positioning accuracy and repeatability,
Components 100% made by Servomech: machining accuracy and constant quality over time.
Ball screw standard ISO IT7.
Available on request ISO IT3 or IT5.
Zero axial clearance.

System safety and reliability over the time.
Limit switches.
Safety dumpers to protect the mechanical parts in event of accidental shocks.
Integrated re-lubrication system of the ball nut specifically designed for Linearmech electromechanical servo-actuators.

www.linearmech.com
SA PD Series
Parallell Design linear servo-actuators

Execution with motor

Execution with customized motor interface
Mechanical linear unit only prepared to be interfaced with the servomotors of the main brands on trade (motor adapter and coupling included in the supplying).

SA IL Series
In-Line Design linear servo-actuators

Execution with motor
Motor assembly on the mechanical linear unit with bell housing and torsionally rigid clamping coupling for a better control and precision in movement.

Execution with customized motor interface
Mechanical linear unit only prepared to be interfaced with the servomotors of the main brands on trade (motor adapter and coupling included in the supplying).

SA Series
Mechanical linear unit
Mechanical linear unit with cylindrical input shaft, supplied without motor and without motor interface. Available on request different input shafts executions, customized dimensions, with or without key.
Main features

High performance electromechanical servoactuators from Linearmech consist of 3 main series: SA PD Series, SA IL Series, SA Series.

Modular structure, in-line or parallel design configuration.
Available with a complete servomotor package or the mechanical linear unit only can be easily interfaced with the servomotors of the main brands on trade.
Wide range of fixing elements according to the ISO 15552 standard of pneumatic cylinders, for a total and simple interchangeability with the existing pneumatic cylinders.

7 different standard sizes available
Linear speed up to 1.500 mm/s
Load capacity up to 46 kN

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<thead>
<tr>
<th>Servoactuators Series and Sizes</th>
<th>SA 0</th>
<th>SA 1</th>
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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