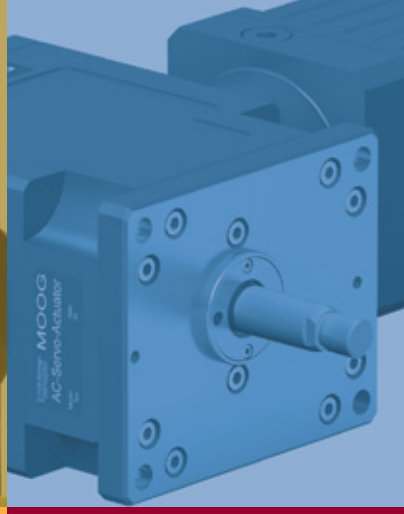
LINEAR ELECTRIC ACTUATOR

A robust and modular concept for short stroke applications



For more than 20 years, Moog has provided electric actuation solutions for many demanding industrial applications including flight simulation, plastic machinery, metal forming, oil and gas exploration and gas turbines. Our high performance solutions are recognized by machine builders for offering high productivity, increased energy efficiency and reliability for a long lifetime. Moog latest actuator series designed for short stroke applications has been developed to meet customers' expectations of design flexibility and maximum robustness.

Moog Linear Electric Actuator series for short stroke applications is available in 10 different frame sizes and covers a force range from 5 to 300 kN (1.1 to 67.4 klbf) with a modular rotary to linear conversion mechanism generating up to 100 mm (3.98 in) linear stroke.

Based on a low friction technology concept, Moog Linear Electric Actuators are designed to enable a reliable force control as well as a highly efficient speed and position control with the flexibility to adapt to system requirements. The compact design allows an easy integration into your existing systems, allowing fast set-up and minimum downtime.

Moog Linear Electric Actuators feature high performance Moog components like the Moog Maximum Dynamic Brushless Servo Motors, ensuring long-lasting performance and high reliability for increased lifetime.

Additionally, Moog Linear Electric Actuators can also be delivered with ATEX and IECEx certifications for use in potentially hazardous environments.

ADVANTAGES

- Compact design with 10 frame sizes for easier integration into machine designs
- Modular approach addressing the needs for different stroke and force requirements
- Robust design and life time lubrication for maintenance-free operation
- Low friction technology concept enabling reliable force control
- Higher efficiency, leading to lower energy costs
- Simulation tools enable application specific designs

APPLICATIONS

- Plastic machinery
- Metal forming machinery
- Test and simulation
- Heavy industry
- Power generation

10 FRAME SIZES

Size	5 kN 14 MM	12 kN 42 MM	16 kN 42 MM	22 kN 94 MM	30 kN 22 MM
Maximum force [1] [kN (klbf)]	5 (1.1)	12 (2.7)	16 (3.6)	22 (5.0)	30 (6.7)
Maximum stroke [mm (in)]	14 (0.55)	42 (1.65)	42 (1.65)	94 (3.70)	22 (0.87)
Speed range [2] [mm/s (in/s)]	30 to 180 (1.18 to 7.09)	59 to 570 (2.32 to 22.44)	67 to 510 (2.64 to 20.08)	49 to 475 (1.93 to 18.70)	30 to 250 (1.18 to 9.84)
Dimensions (L x W x H) [mm (in)]	378 x 95 x 150 (14.88 x 3.74 x 5.91)	551 x 160 x 265 (21.69 x 6.30 x 10.43)	551 x 160 x 265 (21.69 x 6.30 x 10.43)	760 x 265 x 465 (29.92 x 10.43 x 18.31)	645 x 195 x 280 (25.39 x 7.68 x 11.02)

Size	40 kN 66 MM	56 kN 48 MM	100 kN 26 MM	200 kN 24 MM	300 kN 50 MM
Maximum force [1] [kN (klbf)]	40 (9.0)	56 (12.6)	100 (22.5)	200 (45.0)	300 (67.4)
Maximum stroke [mm (in)]	66 (2.60)	48 (1.89)	26 (1.02)	24 (0.94)	50 (1.97)
Speed range [2] [mm/s (in/s)]	37 to 300 (1.46 to 11.81)	26 to 210 (1.02 to 8.27)	15 to 120 (0.59 x 4.72)	15 to 95 (0.59 x 3.74)	9 to 50 (0.35 to 1.97)
Dimensions (L x W x H) [mm (in)]	800 x 265 x 430 (31.50 x 10.43 x 16.93)	805 x 265 x 415 (31.69 x 10.43 x 16.34)	960 x 330 x 505 (37.80 x 12.99 x 19.88)	1,035 x 360 x 570 (40.75 x 14.17 x 22.44)	1,335 x 470 x 810 (52.56 x 18.50 x 31.89)

1) Available over complete stroke
2) Dependent on gearbox ratio selection
Note: Special mounting options available

MODULAR MOUNTING DESIGN

Trunnion Mount
Trunnion may be rotated by 90 degree

Flange Mount
Front flange or rear flange

Moog has offices around the world. For more information or the office nearest you, contact us online.

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