

THE MOOG DIFFERENCE

- Fully customizable (even for reduced quantities) to meet all performance requirements
- Maximum flexibility in terms of design and performance range
- Extremely quiet and low vibration
- High acceleration capability for heavy duty cycle
- Can be used in conjunction with standard servo drives
- Moog servodrives can further optimize machine performance and ensure hasslefree integration
- Moog expertise and close collaboration with customers ensuring solutions that meet today's arduous challenges
- Availability of mechanical interfaces for direct retrofit of existing hydraulic solution
- Wide range of certifications
- Special surface treatments and finishes on request



Servo Drives



Servo Motors



Servo Valves



Screws



Electromechanical Actuators

MORE PRODUCTS. MORE SUPPORT.

Moog designs a range of motion control products to complement those featured in this document. Moog also provides service and support for all of our products. For more information, contact the Moog facility closest to you.

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Moog ball screws, planetary and inverted roller screws
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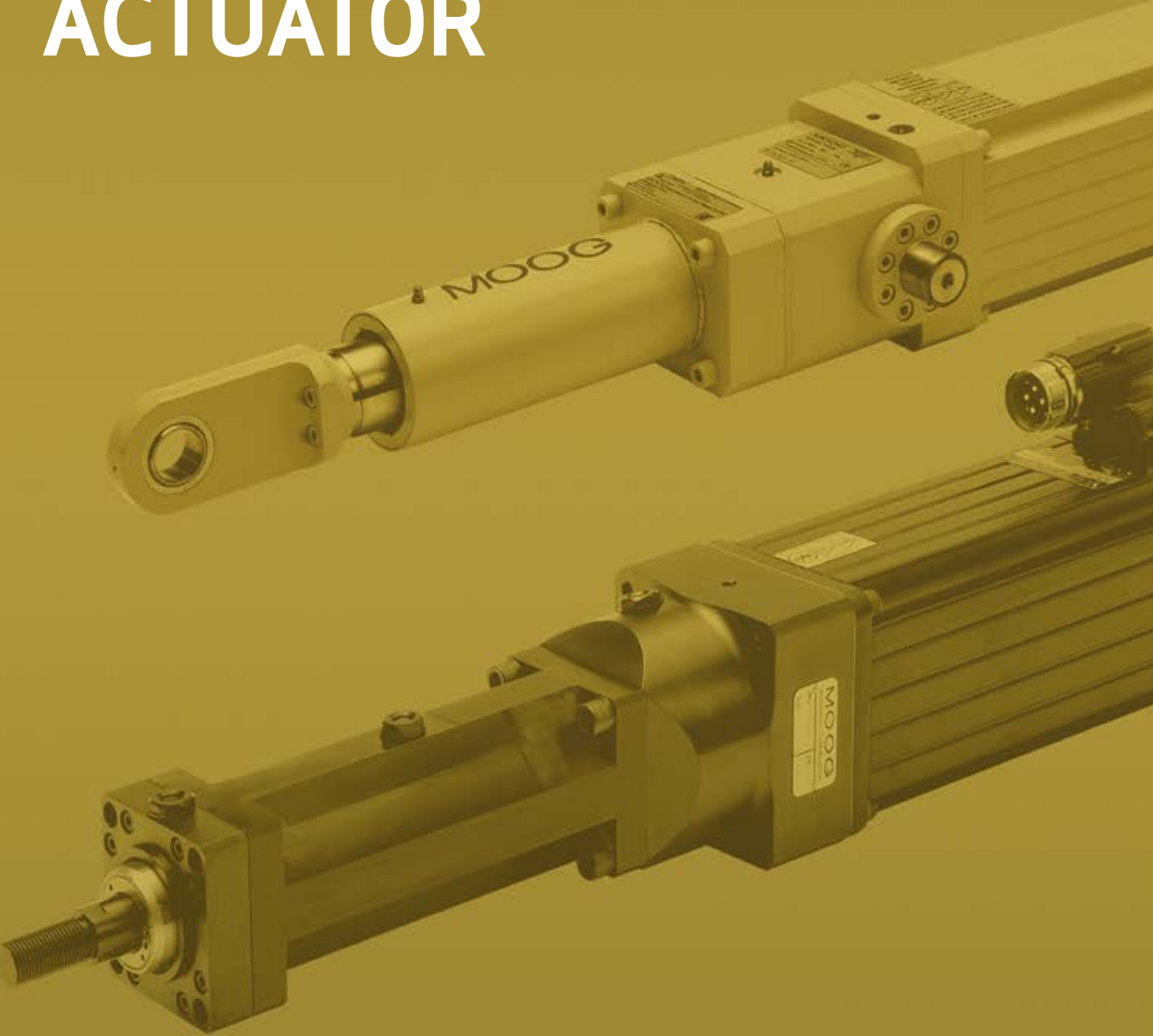
WHAT MOVES YOUR WORLD

MOOG

WHAT MOVES YOUR WORLD

MOOG

MOOG
ELECTROMECHANICAL
ACTUATOR



FLEXIBLE DESIGN AND SUPERIOR ACCURACY
FOR HIGH PERFORMANCE APPLICATIONS

For over two decades, Moog have been associated with Brushless Servo Motors and drives offering the highest dynamics, power density and reliability. Moog also offer ball and roller power screw for a wide range of applications. The synergy between these components creates different Electromechanical Actuators to meet

customer requirements, offering a wide variety of configuration and customization. Moog Electromechanical Actuators addresses the evolving need for greater dynamics and higher performance in industrial applications. Designed and manufactured in accordance with strict CE standards are robust, configurable and adaptable in a wide range of application.

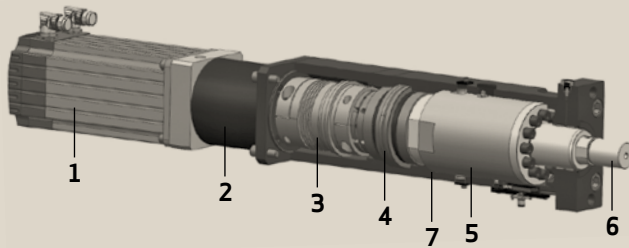


MEMA

- Ensures more accurate precision motion control features, low inertia servomotors for higher acceleration lower audible noise compared to hydraulic installation
- Reduces maintenance and operating costs
- Reduces energy consumption
- Eliminates oil leaks
- The motor electromagnetic design with exceptional overload capacity results in an increase in the effective force available to accelerate and decelerate the load, enabling higher dynamics and improved cycle times.
- The modular design of the Multi-purpose EMA facilitates a high degree of customization to meet diverse application requirements across several industry segments, in order to meet exact customer specifications.
- The combined use of high reliability feedback devices and IP54 compliant construction extend service life and offers years of reliable, low maintenance operation.
- The use in these EMA of the CD Series Servo Motors is the ideal choice for machine builders looking for "best-in-class" servo motors with low inertia and high dynamic.
- Rolling elements designed for long life service.

High Force

- Roller screw based converter
- Integrated antirotation
- High conversion factor allows application of compact motor

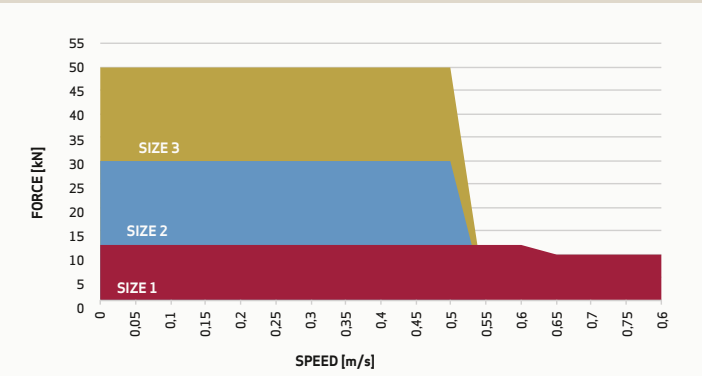


- | | | | |
|---|----------------|---|------------------------|
| 1 | Motor | 5 | Planetary roller screw |
| 2 | Gearbox | 6 | Rod-end |
| 3 | Torque limiter | 7 | Housing |
| 4 | Bearing | | |

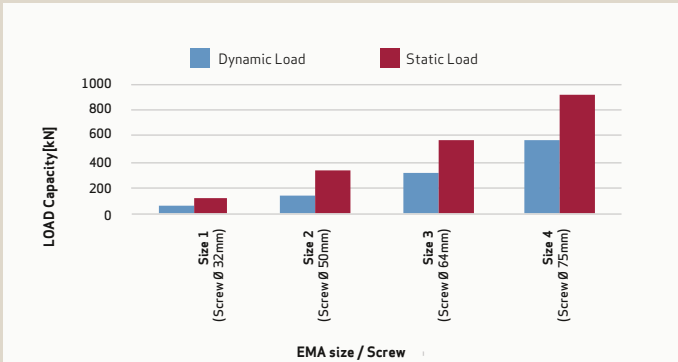
Force Range	10 to 270 kN
Speed range	Up to 0,05 m/s
Stroke range	Up to 150 mm *
Backlash	Up to 0,05 mm
Acceleration	Up to 30 m/s ²

* Only available on bigger sizes

Force and speed characteristics by sizes

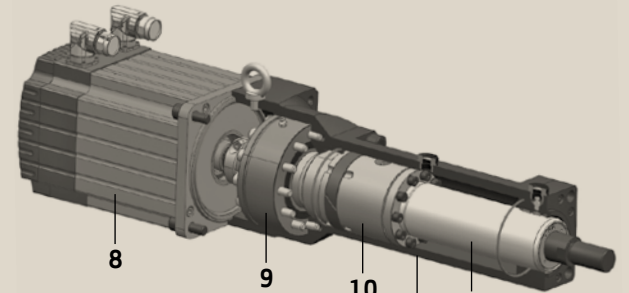


Inside look, rolling elements load capacity



High Speed

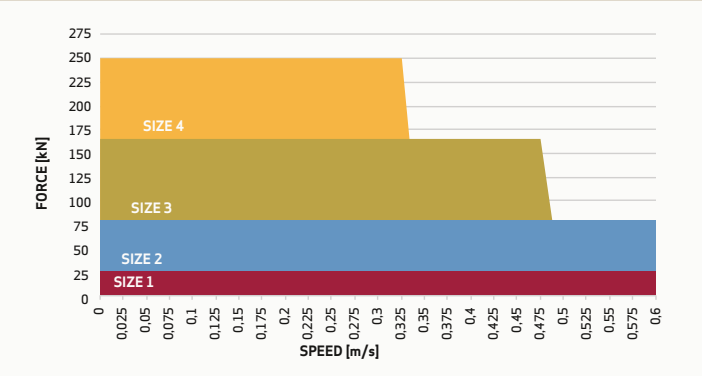
- Mechanical converter based on recirculating ball screw
- Suitable for long stroke
- Directly coupled motor for high speed application



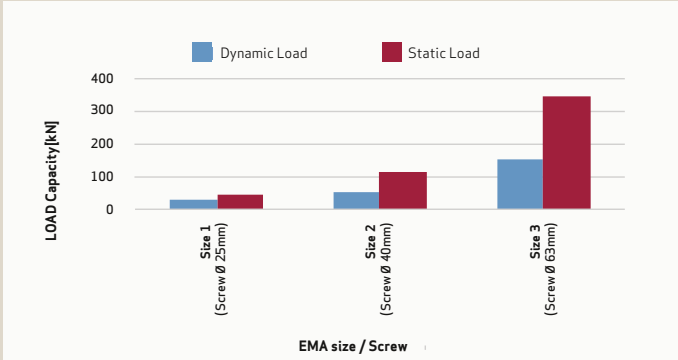
- | | | | |
|----|--------------------------|----|---------|
| 8 | Motor | 11 | Rod-end |
| 9 | Bearing | 12 | Housing |
| 10 | Recirculating ball Screw | | |

Force Range	2,5 to 50 kN
Speed range	Up to 0,8 m/s
Stroke range	Up to 500 mm
Backlash	Up to 0,05 mm
Acceleration	Up to 20 m/s ²

Force and speed characteristics by sizes

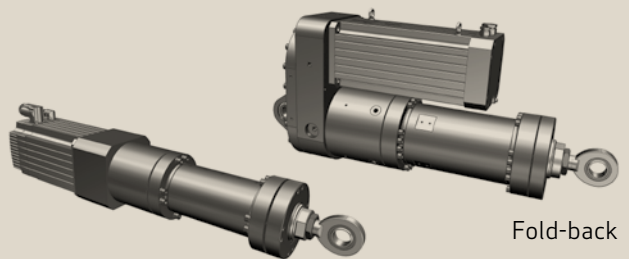
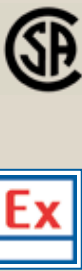


Inside look, rolling elements load capacity



HazLoc EMA

- Designed to meet all HazLoc certification in different countries all over the world
- Combines the characteristics of MEMAs with unique requirements for HazLoc environments
- Capable to operate with micromovements in gas turbine application
- Modular design provides various solutions to satisfy customer requirements and demanding performance
- Foldback version
- Inline gearbox (planetary gears)
- Direct drive
- Integrated antirotation

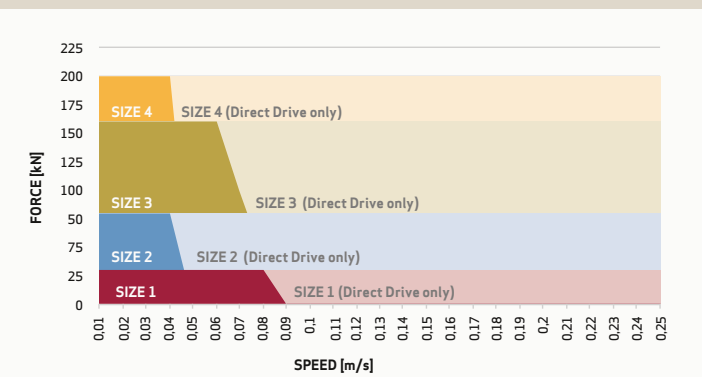


Direct drive / in-line

Fold-back

Force Range	10 to 200 kN
Speed range	Up to 1,0 m/s
Stroke range	Up to 600 mm
Backlash	Up to 0,10 mm
Acceleration	Up to 20 m/s ²

Force and speed characteristics by sizes



Inside look, rolling elements load capacity

