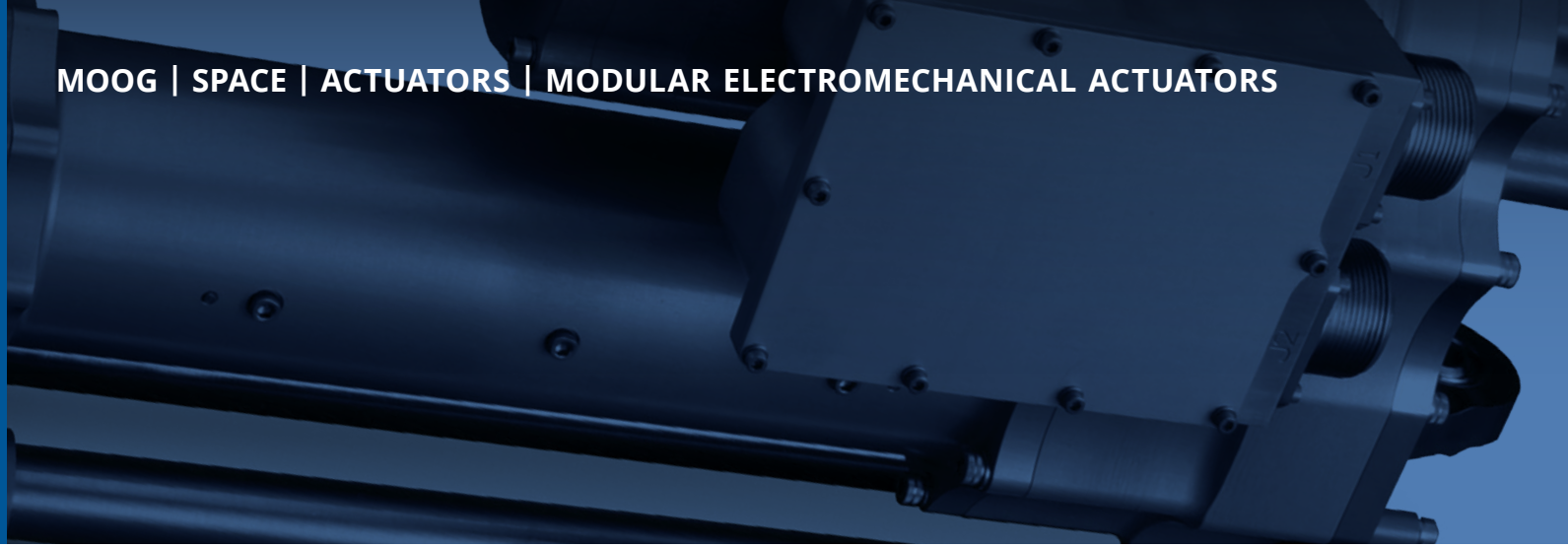
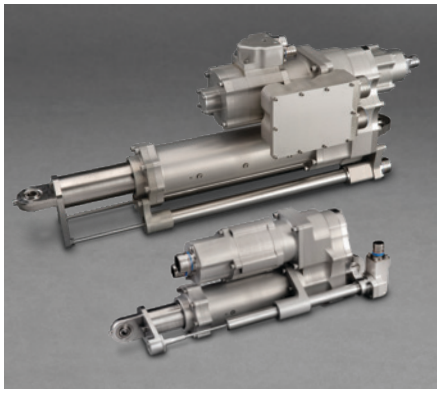


MODULAR ELECTROMECHANICAL ACTUATORS (MEMA)



Moog's line of Electromechanical Actuators (EMAs) is designed to be rugged for harsh environments. These commercial EMAs are capable of covering a range of performance characteristics with configurable design parameters. This line of EMAs is derived from existing qualified and in-service products with a focus on lower cost and faster lead time. The modularity of the designs supports rapid vehicle development and evolution. MEMA has numerous heritage applications including first and second stage Thrust Vector Control (TVC), hypersonic vehicle surface control, and launch vehicle roll control.

OTHER BENEFITS

- Ease of accommodating changes including:
  - Stroke
  - Force
  - Null Length
  - Feedback Sensors
  - Mounting Features and Orientation
- Lower program development and recurring cost
- Ease of integration and distribution
- Facilitates development of next generation technologies
- Adaptable to rotary solutions

MOOG

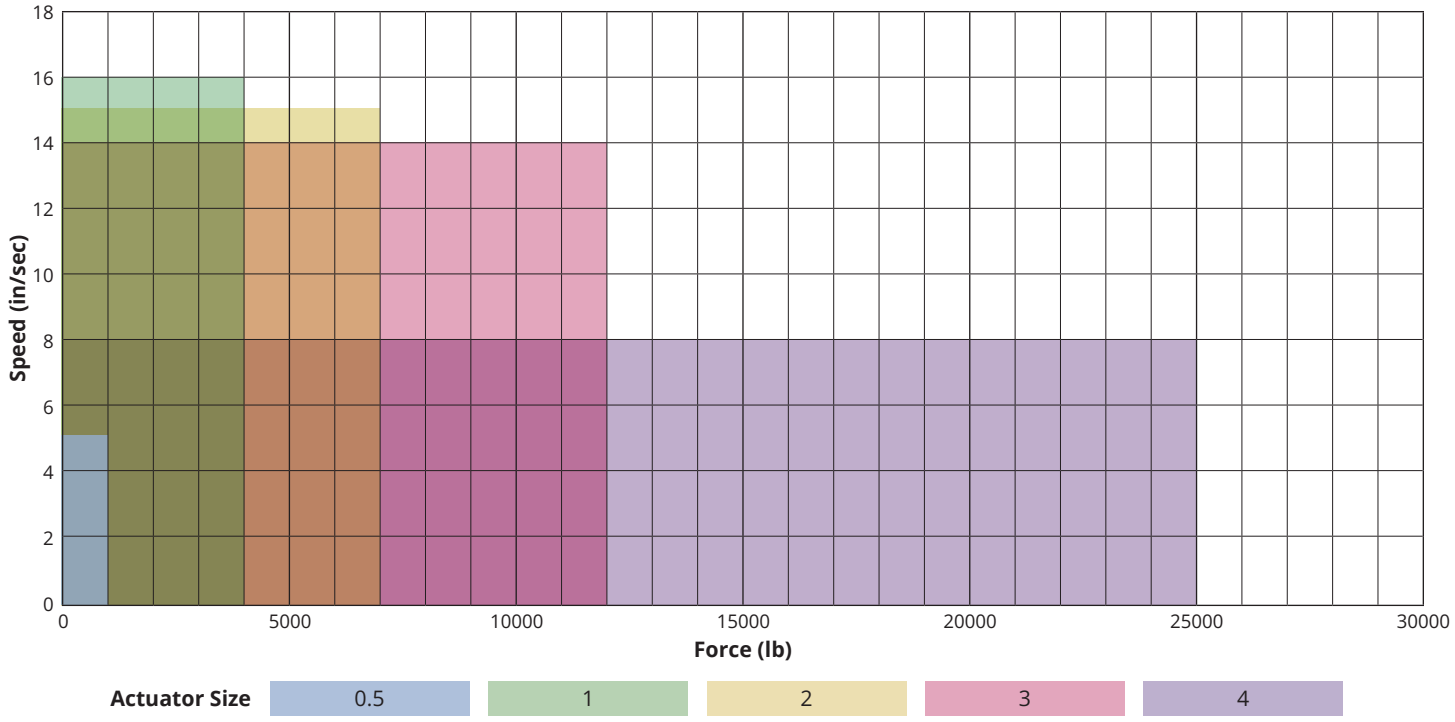
MODULAR ELECTROMECHANICAL ACTUATORS (MEMA)

LINEAR EMA PERFORMANCE CHARACTERISTICS

Features	Specifications				
Actuator Size	0.5	1	2	3	4
+/– Stroke (in)	0.25 – 2.5	0.25 – 4	0.25 – 4	0.25 – 5	0.25 – 6
Pin to Pin Length at Null Position (in)	Tailored to customer needs	Tailored to customer needs	Tailored to customer needs	Tailored to customer needs	Tailored to customer needs
Bus Voltage (VDC)	28 – 300	28 – 300	28 – 300	28 – 300	28 – 600
Weight (lbm)	7.5	15	25	55	75

Ranges listed are examples of known actuator capabilities. Contact factory for further deviations.

EMA Speed vs. Force Capability



moog.com/space
space@moog.com

Moog Space and Defense Moog Inc. @Moog_Inc @Moog.Inc