



ESBA-20 ACTUATOR

A NEW POWERFUL AND VERSATILE ELECTRIC ACTUATOR

CMI's new **ESBA-20** series is a family of compact electric motor driven screw actuators intended for tough applications. These actuators are fitted with CMI's rugged **GRMA-010** series motors. These motors are the perfect mate to our **ESBA-20** actuators, providing a complete easy to integrate package consisting of the motor, driver/controller and screw unit. These units are designed to be **more** than "drop in replacements" for many standard air and hydraulic cylinders. The screw is enclosed in a sealed aluminum extrusion, with a stainless piston rod, heavy thrust bearing set and a built in position feedback sensor. The perfect choice for applications where precise motion is required or where oil leaks and noisy pumps cannot be tolerated. An ideal choice for harsh industrial, military and commercial operating environments.

This Electric Screw Actuator is available as a complete system of CMI compatible support products. A complete system package would include the Electric Screw Actuator, a CMI power supply or a CMI Lithium-Ion battery pack and Battery Management System (BMS). Control of the unit is easily accomplished with a typical industrial PLC or PC based platform.



FEATURES:

- Mil-Spec 810 compliant.
- Corrosion resistant materials through out.
- Compact size includes motor, driver and planetary gear reducer.
- Available with in-line and tandem motor mounting.
- Thrust capacities up to 1500lbf.
- Travel rates up to 125 IPM.
- Stroke lengths up to 12".
- Single D-sub connector for motor power and control.
- Easily interfaces to PC or PLC control systems.
- Reliable operation from -20°C to 125°C, device temperature.
- Peak power ratings up to 850W (in 25°C ambient)
- Available with typical NFPA cylinder mounting styles.
- Coming soon; a new CMI servo motor in the same size package as the **GRMA-010**.

APPLICATIONS:

- Factory Automation
 - Fixture and tooling positioning
 - Drill head manipulation
 - Pressing operations
 - General pneumatic and hydraulic cylinder replacement
- Military/Aerospace
 - Heavy Gate/Door operation
 - Steering of UGVs and transporters
 - Airfoil/flap regulators
 - Vehicle assembly fixture positioner
- Marine
 - Rudder control
 - Bow thruster steering
 - Hatch lift
 - Outboard steering
 - Tilt/trim