

Electromechanical Actuator

CAPABILITY SHEET · SCREW · MOTOR · DRIVE · ENGINEERED TO ORDER

THE ONE IDEA

PRINCIPLE	A force rating says what an actuator can push once. The duty cycle says whether it can keep on pushing.
WHY IT MATTERS	Motor, screw and drive are sized together from the whole duty, so the actuator survives the cycle and not only the peak.

THE ACTUATOR

SCREW AND MOTOR	A ball or roller screw and nut turned by a servo motor sized from peak and continuous torque.
DRIVE AND FEEDBACK	A servo drive closing current, speed and position loops, tuned on the real actuator under its real load.
HOUSING AND SAFETY	Guides, anti-rotation, soft and hard end stops, and a holding brake where the load must be held without power.
RECORD	Force, stroke and motor temperature kept through the proving tests, one record for each actuator.

THE METHOD

ORDER	Profile, size, build, tune, prove and record. Drawing the real duty and proving against it are what a catalogue pick skips.
LIMITS	Force, speed and life come from the customer's duty and are not printed here.

CONFIGURATIONS

COMPLETE ACTUATOR	A finished linear actuator with its motor, screw, housing and rod, sized to the customer's duty.
ACTUATOR WITH DRIVE	The actuator supplied with its servo drive, feedback and tuning, ready to take a command.
MULTI-AXIS SYSTEM	Several actuators on one controller with a shared safety circuit, for platforms and loading rigs.

STANDARDS & SCOPE

STANDARDS	Public references: ISO 3408 for ball screws, IEC 60034 for rotating machines and IEC 61800 for power drive systems.
SCOPE BOUNDARY	It is not a hydraulic actuator, not a test bench, not a motion platform, and not a motor or drive on its own.
STATUS	Neometrix has quoted against successive electromechanical actuator requirements, and no delivered electromechanical actuator is claimed.

DEFENCE PROGRAMMES DESK

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