

Electromechanical Actuator Test System

CAPABILITY SHEET · FIXTURE · LOAD MACHINE · RECORD · ENGINEERED TO ORDER

THE ONE IDEA

PRINCIPLE	An actuator can only be tested against a load, so the load machine is the real instrument.
WHY IT MATTERS	A free run shows speed and friction. Only a loaded run shows force, stiffness, heat and wear.

THE BENCH

FIXTURE AND LOAD	A stiff fixture and reaction frame, and a load machine that pushes back: passive, servo-hydraulic or electric.
MEASUREMENT	An in-line load cell, a linear sensor on the output, current and temperature, all on one clock.
CONTROL AND SAFETY	Closed-loop control of the load, an optional chamber, and a safety circuit that removes power and load together.
RECORD	Force, stroke, speed, current and temperature kept, one record for each actuator tested.

THE METHOD

ORDER	Fit, free run, load, hold, endure and record. The loaded run and the long run are what a quick check skips.
LIMITS	The force, speed and life an actuator must show come from the customer's specification and are not printed here.

CONFIGURATIONS

ACCEPTANCE BENCH	Short checks of finished actuators against a passive load, with force and stroke logged on one clock.
PERFORMANCE BENCH	A programmable load machine that follows a profile, with every channel logged through the run.
ENDURANCE BENCH	Long cycles in a chamber, with temperature and current kept all the way through.

STANDARDS & SCOPE

STANDARDS	Public references: ISO 3408 for ball screws, IEC 60068 for environmental testing, and ISO/IEC 17025 for testing laboratories.
SCOPE BOUNDARY	It is not the actuator itself, not a bench for hydraulic actuators, not a motion platform, and not a calibration laboratory.
STATUS	Neometrix has quoted against successive actuator test system requirements, and no delivered electromechanical actuator test system is claimed.

DEFENCE PROGRAMMES DESK

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