



EXOTIC

AUTOMATION & SUPPLY

Electromechanical for Testing

At Exotic Automation & Supply, we know that testing labs need products that position accurately and reliably. They also need to withstand stringent specifications and can be subjected to harsh environments including debris, extreme temperatures, and radiation. Parker Hannifin's Electromechanical Division can supply what you need.

Guided Actuators

- Available with different drive types
 - Screw Drive – Repeatability as low as $\pm 1.3 \mu\text{m}$
 - Linear Motor Drive – Repeatability as low as $\pm 1.0 \mu\text{m}$
 - Belt Drive – Repeatability as low as $\pm 50 \mu\text{m}$
 - Miniature positioners for small loads with repeatability as low as $0.1 \mu\text{m}$
- Many options available including:
 - Profiled guide rails
 - Clean room
 - Threaded ports for purge or vacuum of actuator body
 - Radiation resistant components
- Unguided electric cylinders with thrust forces up to 356kN (80,000 lbf) also available



Gearboxes

- Available with low backlash $< 3 \text{ arc-min}$
- Output flange mounting options
- Right angle options for tight spaces
- Customizable for specialized requirements



Rotary Positioners

- Available as a direct drive or worm gear
- Tabletop diameters from 80mm to over 300mm
- Repeatability $< 2 \text{ arc-sec}$ available



Complete Cartesian Systems & Collaborative Robots Also Available

Advantages of Electromechanical Test Systems Over Pneumatic or Hydraulic Testing Systems

- Consistent supply of speed and force independent of other factors for more reliable test results
- Fully adjustable speed, acceleration, deceleration, and strokes
- More accurate and consistent speed, position, and force
- More efficient as they only use power with running with no need for lines pressurized with air or oil
- More environmentally friendly

We also know that a good mechanical system requires an excellent motor and control system. We have you covered with Parker's Drives and Controls Division. No matter if you need an AC or DC drive with a servo or stepper motor, we can help. If you need to see status or adjust parameters, just connect a Parker HMI for a complete system.

Motors

- Available in a wide range of torque
 - steppers as low as 0.01 Nm
 - servos with over 400 Nm peak
- Explosionproof and washdown versions available
- Steppers with micro-stepping and feedback



Drives

- Wide range of AC and DC input power options
- Basic types include indexing and analog control
- Available programming with ACROBasic or IEC61131-3
- Networked drive for most common communication protocols



Most software is a free download and does not require annual fees.

Controllers

- ACR7000
- ACROBasic programming
- 4 or 8 axis servo drive
- 4 axis stepper drive
- 4 or 8 axis control only

The front RJ45 ports make connecting with a PC simple and convenient.



HMI

- IP65 front bezel
- Dedicated, Windows, or Industrial PC
- Wide format touch screen with screen sizes up to 22 inches
- Rear of unit is enclosed to prevent dust buildup on internal components



This flyer is meant as a guide only. Please see catalog for full details when selecting products.

Exotic Automation & Supply

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10 Michigan Locations!

