



THOMSON™

Mobile Off-Highway - Linear Actuators

 **DANAHER**
MOTION

Helping you build a better machine, faster.

Why Thomson Actuators?

For over 50 years, the dedicated engineers at Thomson have worked hard to design our actuators to provide the unique features that off-highway applications require.

The largest linear actuator range in the market

In addition to our extensive application and engineering expertise, Thomson also has the largest unmatched range of standard and custom electrical linear actuators in the market today. For this reason, we are able to provide positioning solutions for a vast array of unique off-highway applications for dynamic loads up to 9000 N (2000 lbf). Thomson understands the critical needs of the off-highway industry and works diligently to provide the most cost-effective solution available. Our success is driven by:

- decades of application and engineering expertise
- robust and reliable products that withstand the harshest environments
- an extensive standard and custom product range
- custom designs for unique off-highway applications.

Rugged and reliable

Thomson electro-mechanical linear actuators are rugged and reliable, withstanding harsh environments to:

- make manual jobs easier - reduce operator fatigue
- automate tasks - improve efficiency and reduce costs
- provide remote control - increase production
- remove operators from dangerous places - improve safety.

Changing technologies

Off-highway vehicle manufacturers are taking a long, hard look at the way they use motion control systems in their equipment. Once dominated by pneumatic and hydraulic systems, equipment is now increasingly equipped with electric actuators for automation of a large number of tasks. Electric linear actuators are easier to control, integrate with modern computer based control systems and are smaller, lighter and cleaner than hydraulic systems - all attributes that brighten a company's bottom line. In fact, electric linear actuators eliminate:

- the need for hydraulic pumps, valves and hoses
- the cost and bulk associated with hydraulic systems
- environmentally hazardous oil and risk of leakage
- the high energy consumption of hydraulic systems
- costly hydraulic reliability issues (contamination)
- the cost and hassle associated with fluid maintenance.

Customization

Thomson is the industry leader in custom actuator design. Our design flexibility and unique customization expertise give us an advantage to quickly provide our customers a cost-effective design that meets their exact requirements.

Electrak 1

- Very compact and lightweight
- Corrosion resistant housing
- Integrated potentiometer or end of stroke limit switches
- Ideal for replacement of comparable size pneumatic and hydraulic cylinders.



Electrak 050

- Small, quiet and lightweight
- Very short retracted length
- Low cost
- Corrosion free plastic housing
- End of stroke limit switches.

Electrak PPA-DC

- Strong and versatile heavy duty actuator
- High duty cycle
- Long stroke lengths
- A variety of DC voltage models
- Large range of options.

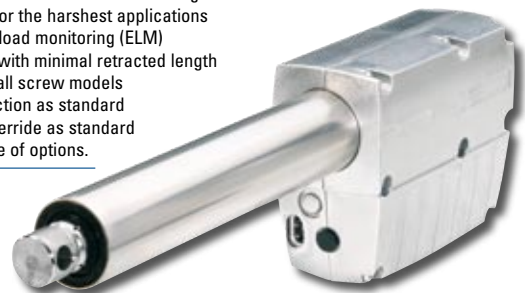


Electrak 10

- Robust, strong and reliable
- Withstands very harsh environments
- Stainless steel extension tube
- Acme or ball screw models
- A variety of DC voltage models.

Electrak Pro

- The next generation in actuator design
- Designed for the harshest applications
- Electronic load monitoring (ELM)
- Small size with minimal retracted length
- Acme or ball screw models
- IP66 protection as standard
- Manual override as standard
- Wide range of options.



Applications

Millions of Thomson actuators are at work every day in countless harsh environments. They operate in extremes of heat and cold, withstand dust, dirt and mud, and continue to run flawlessly and function efficiently. In any vehicle where something needs to be raised, lowered, pushed, pulled, rotated, positioned, lifted, shifted or moved, Thomson linear actuators can do the job.

Construction and road maintenance vehicles

- Hood lifts
- Salt or sand spreader chutes
- Street sweeper brushes and squeegees
- Compactors
- Quick attach mechanisms
- Valve control
- Throttle control

Farm and forestry vehicles

- Combine sieve and shoe adjustment
- Fertilizers sprayers
- Baler tying systems
- Seeder discharge spouts
- Winches
- Stump grinder chutes
- Engine hood or cabin tilt

Turf, lawn and garden vehicles

- Mower decks and hoppers
- Greens groomer decks
- Utility vehicle dump boxes
- Trail groomer accessories
- Aerators
- Fertilizer spouts

Railway vehicles

- Train couplers
- Pantographs
- Remote power switching
- Rail maintenance equipment

Recreational vehicles

- Boat hatch covers and seats
- Mobile home slide outs, steps and platforms
- Ski lifts
- ATV accessories
- Golf carts

Military and defense vehicles

- Seats
- Hatches, hoods and covers
- Accessories



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