



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.

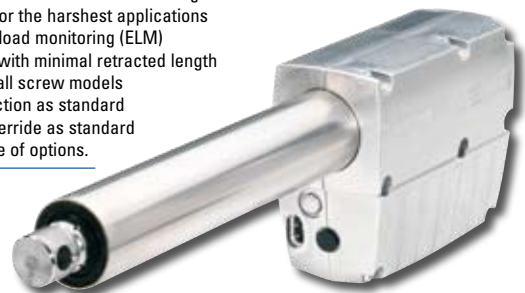


Electrak 10

- 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



United Kingdom

Danaher Motion
Chartmoor Road, Chartwell Business Park
Leighton Buzzard, Bedfordshire
LU7 4WG; United Kingdom
Phone: +44 (0)1525 243 243
Fax: +44 (0)1525 243 244
E-mail: sales.uk@danahermotion.com

Germany

Danaher Motion GmbH
Sales Office North
Wacholderstr. 40-42
40489 Düsseldorf
Germany
Phone: +49 (0) 203 9979 214
Fax: +49 (0) 203 9979 3214
E-Mail: iris.tolusch@danahermotion.com

Danaher Motion GmbH
Sales Office South West
Lessingstr. 41
75015 Bretten
Germany
Phone: +49 (0) 7252 97390 56
Fax: +49 (0) 7252 97390 55
E-Mail: kerstin.mueller@danahermotion.com

Danaher Motion GmbH
Sales Office South East
Kiesgräble 7
89129 Langenau
Germany
Phone: +49 (0) 7471 62 23 23
Fax: +49 (0) 7471 62 23 26
E-Mail: ursula.koschak@danahermotion.com

France

Danaher Motion
C.P 80018
12, Rue Antoine Becquerel – Z.I. Sud
72026 Le Mans Cedex 2
France
Phone: +33 (0) 243 50 03 20
Fax: +33 (0) 243 50 03 29
E-mail: sales.france@danahermotion.com

Italy

Danaher Motion srl
Largo Brughetti
20030 Bovisio Masciago
Italy
Phone: +39 0362 594260
Fax: +39 0362 594263
E-mail: info@danahermotion.it

Sweden

Mechanical Components:
Danaher Motion
Box 9053
291 09 Kristianstad
Sweden
Phone: +46 (0) 44-24 67 00
Fax: +46 (0) 44-24 40 85
E-mail: helpdesk.kid@danahermotion.com

Switzerland

Danaher Motion SA
La Pierreire 2
1029 Villars-Ste-Croix
Switzerland
Phone: +41 (0) 21 631 33 33
Fax: +41 (0) 21 636 05 09
E-mail: info@danaher-motion.ch

USA, Canada and Mexico

Danaher Motion
203A West Rock Road
Radford, VA 24141 USA
Phone: 1-540-633-3400
Fax: 1-540-639-4162
E-mail: DMAC@danahermotion.com
Literature: LitRequest@danahermotion.com

China

Danaher Motion
Rm 2205, Scitech Tower
22 Jianguomen Wai Street
Beijing, China, 100004
Phone: +86 10 6515 0260
Fax: +86 10 6515 0263
E-mail: chinainfo@danahermotion.com.cn

Japan

Danaher Motion Japan
2F, Tokyu Reit Hatchobori Bldg,
2-7-1 Hatchobori Chuo-ku,
Tokyo 104-0032 Japan
Phone: +81-3-6222-1051
Fax: +81-3-6222-1055
E-mail: info@danahermotion.co.jp

Asia Pacific

Danaher Motion (HK) Ltd
Unit A, 16 Floor, 169 Electric Road
Manulife Tower, North Point
Hong Kong
Phone: +852 2503 6581
Fax: +852 2571 8585
E-mail: victor.lim@danahermotion.com