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## **Thomson WhisperTrak™ Electric Linear Actuators**

Quiet, Strong and Compact

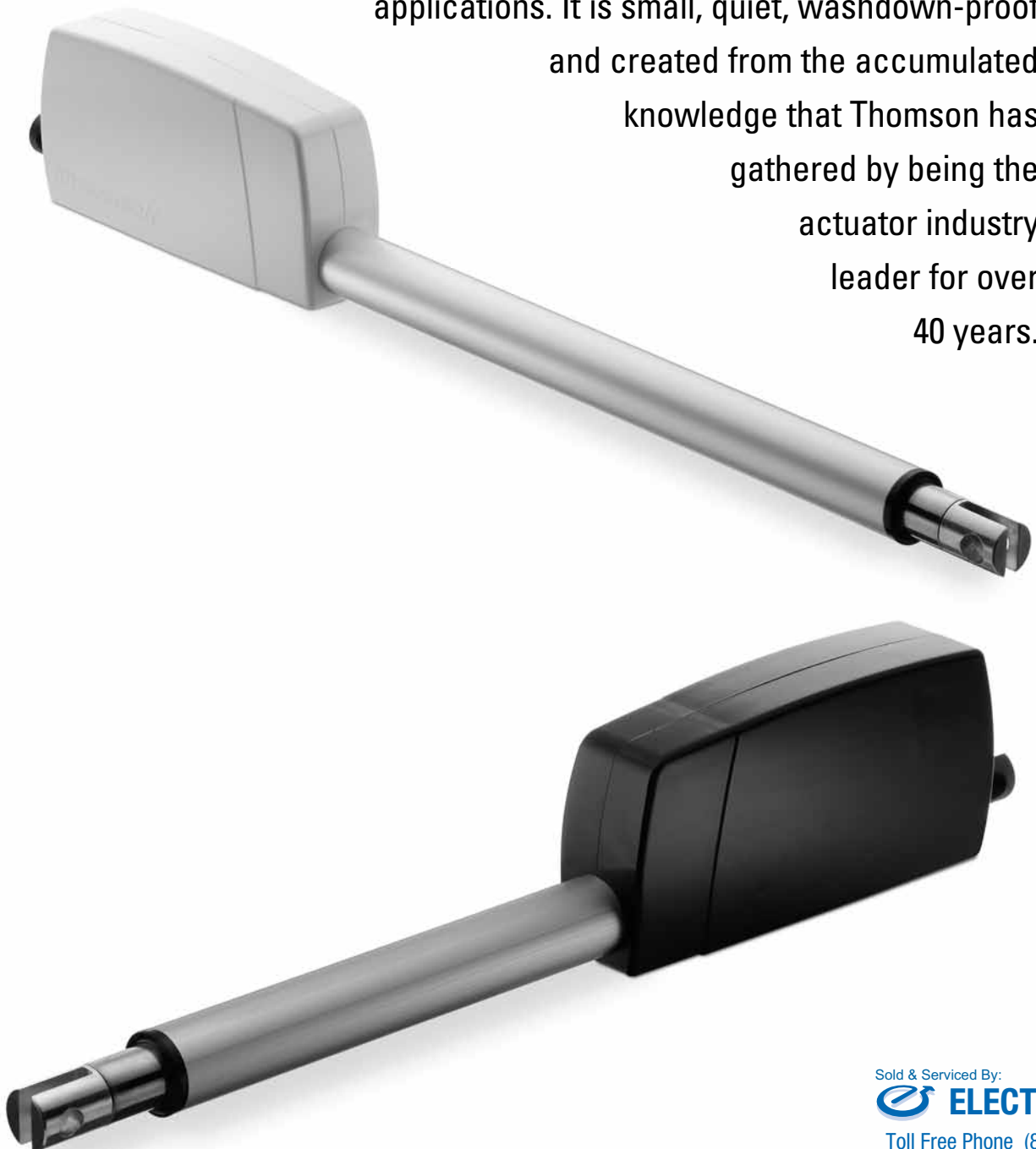
 **THOMSON**®

*Linear Motion. Optimized.™*

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## Thomson WhisperTrak™ Linear Actuators

Thomson WhisperTrak™ Linear Actuators are the newest addition to our well-known electric linear actuator family. This new actuator sets a new standard for personal mobility, medical, rehab, office and domestic applications. It is small, quiet, washdown-proof and created from the accumulated knowledge that Thomson has gathered by being the actuator industry leader for over 40 years.



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# Features and Benefits

Thomson WhisperTrak™ linear actuators were designed to incorporate features that enable machine builders the greatest flexibility in their design. A sleek and compact design, washdown protection, electronic limit switches and a global sales and service organization are just some of the features offered. The result is the optimum actuator for the applications it is built to serve.

## Exceptionally quiet

Thomson WhisperTrak linear actuators boast a low sound level of less than 45 dBA, about the same as an average library. This quiet, consistent low sound level is conducive to personal mobility applications and provides unobtrusive linear motion in an elegant package.

## Permanent sealing for environmental protection

The actuator is able to operate in harsh conditions where it is exposed to washdown, rain, dust, or other particulate without the use of any additional cover. The WhisperTrak linear actuator is rated for protection class IP67.

## Compact and compatible

The Thomson WhisperTrak linear actuator is one of the most compact actuators on the market and pin to pin compatible with virtually all competitor actuators in this segment. This allows you to easily replace an existing actuator with the Thomson WhisperTrak linear actuator and gain the space saving benefits while reducing weight.

## Maintenance free

Our new actuator is unique in that it requires zero maintenance throughout the entire life of the actuator.

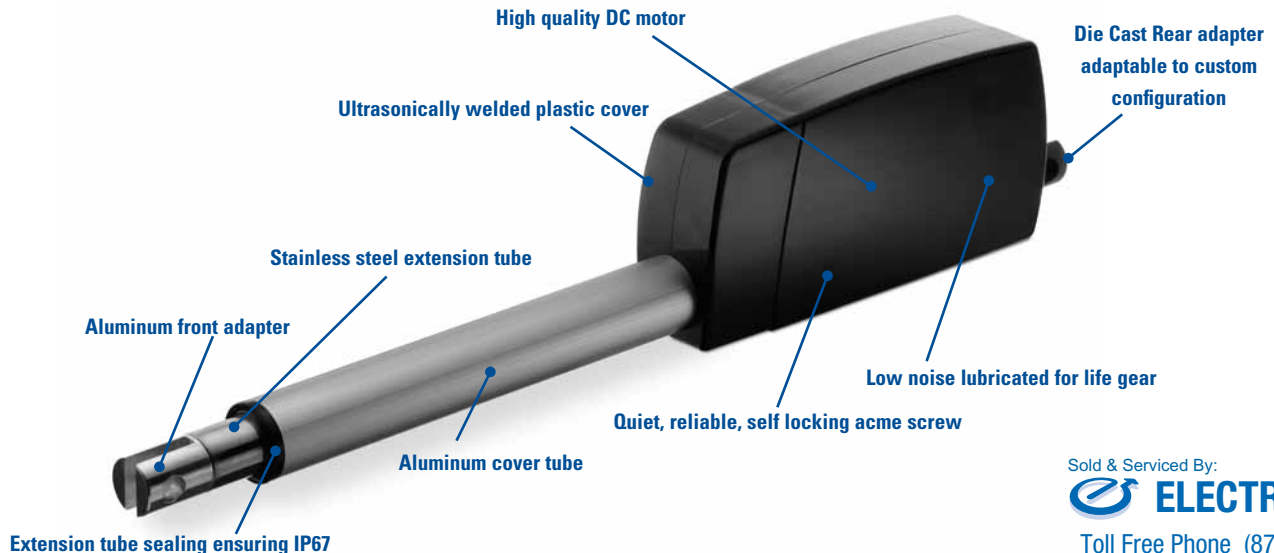
The average life is 10,000 cycles (one full stroke back and forth) at the maximum load. Once properly installed, the Thomson WhisperTrak linear actuator will provide trouble-free operation with zero maintenance, thereby reducing the total cost of ownership.

## Unique options

The Thomson WhisperTrak linear actuator is unique in that it offers a compact machine footprint and robust features that are unavailable anywhere else. The electronic limit switches (ELS) and anti-rotation options are available off the shelf and fit within the compact envelope of the standard model. Mounting options include standard as pictured or rotated 90 degrees.

## World wide representation

For over 40 years Thomson has provided simple, innovative, and dependable linear actuator solutions. With global sales and manufacturing facilities, Thomson is able to respond quickly to all customer needs. The Thomson WhisperTrak linear actuator is designed to meet all relevant certificates and is built in accordance with ISO 9000.



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# Applications

The Thomson WhisperTrak electric linear actuator offers incredible flexibility. Any application which requires a small footprint or quiet operation would benefit from it. Specifically, personal mobility, rehab, medical equipment, office and domestic machines, are well suited as a result of its compact envelope and unique operating features such as quiet operation and one piece housing.

## Rehab and handicap equipment

Personal mobility is a growing area for linear actuators. Equipment designed to offer mobility or rehabilitation to disabled, elderly, or injured people can include wheel chairs, patient lifts, handicapped accessible cars/trucks, and other rehabilitation equipment.

## Medical/hospital equipment

Patient beds, x-ray machines and examination chairs are just a few examples where linear actuators are used. In fact, every place where a simple, reliable and electrified movement is needed a linear actuator is likely the answer.

## Furniture

The quiet operation and small footprint of the Thomson WhisperTrak linear actuator make it ideal for home or office furniture requirements where silent operation is an issue. Adjustable desks, beds, reclining chairs, and the positioning of heavy TV screens benefit from the quiet, precise actuation of the WhisperTrak linear actuator.

## Limitless possibilities

Whether the standard product meets your specifications or you require a more customized solution, Thomson engineers are available to discuss any of your application needs.

### Beds

Beds in hospitals or at home are commonly equipped with actuators to adjust different functions. In this image the back and the leg angles are adjustable but actuators are also used to tilt, turn, and position beds in almost any way imaginable to make life easier for the patient, nurse and the cleaning staff.

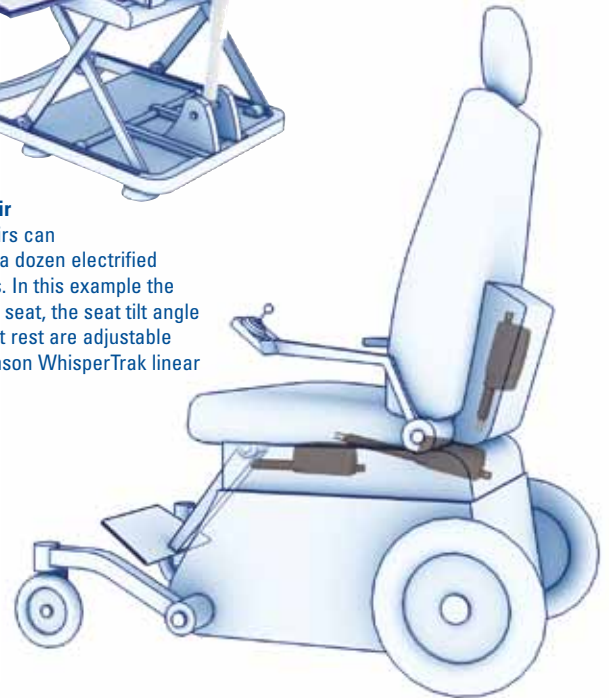


### Bath chair lift

For simple and safe handling the lift movement is electrically actuated. The Thomson WhisperTrak linear actuator is light-weight and quiet and makes cleaning easy without worry of water ingress or exposure to detergents.

### Wheel chair

Wheel chairs can have up to a dozen electrified movements. In this example the back of the seat, the seat tilt angle and the foot rest are adjustable using Thomson WhisperTrak linear actuators.



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# Specifications

Specifications are subject to change without notice. It is the responsibility of the product user to determine the suitability of this product for a specific application.

Technical Specification		2000N
<b>Voltage</b>		
Input voltage	[VDC]	12 24
<b>Load</b>		
Static load (Fx), maximum	[N]	2000 (450 lbs)
Dynamic load (Fx), maximum	[N]	2000 (450 lbs)
<b>Stroke</b>		
Stroke lengths, standard	[cm]	10, 20, 30, 40, 50
<b>Current</b>		
Current consumption, rated load	[A]	4.5 2.2
Current consumption, stall/in-rush	[A]	14 8.0
<b>General data</b>		
Speed, no load	[mm/s]	5.8 (.23"/s)
Speed, rated load	[mm/s]	4.0 (.16"/s)
Operating temperature limits	[°C]	-25 to +40 (-13F to 104F)
Duty cycle, maximum	[%]	10
Life, average	[cycles]	10 000
Sound level	[dBa]	< 45
Lead screw type		acme
Protection class		IP67
Certificates		CE (EN60601-1) UL (UL60601-1)

## Features

- Maintenance free
- Very high sealing degree due to ultrasonic welding of enclosure
- Washdown proof during operation
- Can be submerged when not operating
- Compact and light weight

## Options

- Electronic limit switches (ELS)<sup>1</sup>
- Anti rotation mechanism <sup>2</sup>
- Mounting adapters turned 90°

<sup>1</sup> Shuts off power at the end of stroke and all along the stroke at overload conditions.

ELS is normally set for 120% of the rated dynamic maximum load.

<sup>2</sup> Prevents the extension tube from rotating if it is not fixed in the end.

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