Focus on mobility
Understanding your needs

Physical disability does not necessarily mean reduced activity, but simply reduced mobility. Persons with disabilities face many challenges when it comes to mobility, e.g. in their homes, in the office, in the shopping mall, in the cinema or in their cars. It is an everyday occurrence. However, with the technological development, a wide range of aids to increase mobility are available for persons with disabilities today.

LINAK® has many years of experience as a subsupplier within this business and knows what it takes to supply reliable actuator systems that put self-reliance, people’s safety and quality of life first.

Fittings for cars
As an example, LINAK can provide a wide range of low voltage actuators for all kinds of movement in vehicle fittings for persons with disabilities. So why is LINAK the perfect partner for this exact application?

LINAK actuators:
• Are very easy to install and they fit immediately to the electrical system of the vehicle
• Can be supplied with extra safety features
• Lift up to 1000 kg fast and steadily
• Are easy and fast to operate by means of hand controls, remote controls or switches
• Are designed to operate under harsh and rugged conditions with vibrations etc.
• Are maintenance-free products
• Offer a high degree of flexibility

“LINAK provides a wide range of low voltage actuators for all kinds of movement in vehicle fittings for persons with disabilities. The actuators can lift up to 1000 kg fast and steadily.”

LINAK offers service worldwide
Please contact your local LINAK office with your enquiry
What LINAK actuators do for the car

TECHLINE® actuator solutions provide easy electric linear movement for a wide range of vehicles especially designed to increase mobility for persons with disabilities. Their light weight, precise and smooth motion control as well as reliable performance in rough conditions make LINAK® actuators an ideal choice for these applications.

For the car, LINAK actuators offer improved ergonomics, easy access and exit of the vehicle, as well as easy loading of small mobility solutions such as wheelchairs etc.

Lift
Easily loading wheelchairs or scooters into boots. A lift like this can increase the independency of the user and make travelling easier.

Rear door opener
Remote opening/closing of the rear door. Simple operation of the rear door will be mandatory for a wheelchair user.
Electrical seat
Gaining easy access to the driver’s seat from a wheelchair with electric turntable seats
What LINAK actuators do for the minivan

LINAK® actuators ensure user-friendly operation as well as high-quality and long lasting performance in various mobility solutions for minivans.

Due to their high flexibility the actuators can easily be customised for a specific mobility solution. Also, their small size and ability to interface with programmable control systems makes installation into applications even easier.

Scooter platform lift
Automatic lifting and storing of a scooter into the boot by the push of a button

Foldout ramp
Folding or unfolding of the wheelchair ramp for easy exit/entry for users of wheelchairs or scooters
**Kneeling system**
Lowering of the vehicle to reduce the ramp angle for easy and effortless entry/exit for scooter or wheelchair users

**Curb sider lift**
Lifting and storing of a scooter for easy transport
What LINAK actuators do for the van and small cars for wheelchair users

Within vans and small cars for wheelchair users, LINAK® actuators will help enhance safety and reliability while providing easy adjustment for ergonomic, self-reliance and comfort purposes.

**Support railing**
Adjustment of the support railing for more safe entry/exit

**Platform lift**
Steady lifting of the rear mounted platform for wheelchair or scooter transport

**Automated door**
Remote control of the sliding side doors for easy access

**Electric side steps**
Folding out of steps or foot panels for easy entry/exit to the van
Door automation
Remote opening and closing of the rear door for easy entrance/exit

Rear end lowering
Lowering of the back of the vehicle to ground level in order for a wheelchair to gain direct access from the street

Adjustable car seat
Adjustment of the driver’s seat for increased accessibility and comfort

Steering wheel
Adjustment of the steering wheel position for enhanced convenience

Gearshift
Retraction of the gearshift for easy access to the driver’s area

Clutch and brake
Controlling of the clutch and brake for increased user-friendliness
IC movement for mobility

IC is the range of integrated control options for TECHLINE® actuators that present you with almost unlimited possibilities for superior control and monitoring, to enhance the value and performance of your application.

For mobility applications, actuators with IC provide cost-effective performance and innovative technology:

- Simple installation with built-in electronics.
- Easy overview and precise control of the actuator movement.
- The actuator can be customised on site to fit multiple solutions in a single application.
- Easy monitoring of the actuator’s condition which ensures a minimum of downtime.
- All IC options are based on the same welltested interface, which is covered by the actuator’s IP degree.

If you are looking for a movement solution that will help you stay competitive in the future, then go for LINAK actuators with integrated controller, and Move for the Future.

For more information on IC, please go to LINAK.COM/SEGMENTS/TECHLINE/TECH-TRENDS/INTEGRATED-CONTROL/
Move for the future

Step into the future world of movement and enhance your competitive edge.
Do you want cost-effective performance, innovative technology and a competitive edge?

Go for IC™ and Move for the Future™
LINAK® industrial actuators offer a versatile array of movement solutions for mobility applications.

With **thrusts up to 15,000 N, max speeds up to 160 mm/s, and strokes between 20 and 999 mm**, the actuators are highly adaptable for a wide variety of applications.

Industrial actuators with **heavy-duty aluminium housings** are very suitable for use in corrosive environments. Having been thoroughly salt spray and chemical resistance tested and approved for ratings up to **IP66 and IP69K static**, these actuators will work reliably for years, even when exposed to salt, water, wind, and sun.

**Operating temperatures between -40°C to +85°C** make them fit for work in numerous settings.

By using an integrated controller, industrial actuators are **configurable** and offer **relative or absolute position feedback** as well as **performance monitoring**.
Accessories for mobility

Motor controller TR-EM-208 - Complete control
- Variable power supply 12-36 V DC
- Overload protection - adjustable current limit 1-20 A
- Adjustable soft start and stop
- Several versions for different applications
- Integrated brake

Rocker switch - easy operation
- For all actuators with limit switches
- Easy operation of actuators without use of further electronics
- IP66 for outdoor use
- Easy to install
- Tested with an LA36 12 V DC for 50,000 operations

Remote control - digital radio control
- Remote control transmitting up to 100 metres
- Dual channel receiver
- Several transmitters can be programmed for the same receiver
- Simple to use and install
- Dynamic codes ensure a high security level
- Supply voltage 12 or 24 V DC

(*) “The specified product is a third party product that is produced by third party and distributed by LINAK® as a supplement to the LINAK existing product range. It is the responsibility of the product user to determine the suitability of the product for a specific application. LINAK will at point of delivery replace/repair defective products covered by the warranty if promptly returned to LINAK.”

If you use IC there is no need for these accessories!
We understand your business

On the cooperational side, it must be easy for our customers to do business with LINAK®. Therefore, we offer both standard components and customised solutions according to demand. In close cooperation with our sales engineering team you can develop an optimal solution that fits perfectly to your task and demands.

Our LINAK TECHLINE® division is committed to offering innovative solutions that help improve life for you and for the end-user of the system.
Resting on the pillars of the LINAK values
Strategic partnerships within R&D, after-sales, logistics, marketing and manufacturing.

Meaningful value by converting great new ideas into solutions of tomorrow.

Process automation built on newest technology and run by LEAN principles.

Updated market insights and local support offered to every customer.

In-depth knowledge of the market and the market trends makes LINAK a true solutions provider.
100% function tests

In each application, the actuator is just one component of many, but at TECHLINE® we fully appreciate that it is of utmost importance to you and your customers. Not a single actuator leaves LINAK® until it has undergone a 100% function test.

Depending on the actuator type, various tests have been carried through. Please consult your local LINAK office or take a look at the actuator data sheet in question to get a thorough test overview.

This is your guarantee that a solution based on LINAK TECHLINE electric actuator systems is a solution that will work reliably for years and years.

Electrical tests:
All electrical parts are tested i.e. power supply, power and signals cables, control signals etc. Electrical immunity is tested according to industrial standards i.e. for radio noise, electrical discharge and burst.*

- EN/IEC 61000-6-4 - Generic standard emission industry
- EN/IEC 60204 - Electrical equipment of machinery
- EN 50121-3-2 - Railway applications - Rolling stock apparatus
- 94/25/EC - Recreational crafts directive
- EN/ISO 13766 - Earth moving machinery
- EN/IEC 61000-6-2 - Generic standard immunity industry
- 2004/104/EC - Automotive Directive
- EN/ISO 14982 - Agricultural and forestry machines
- EN/ISO 13309 - Construction machinery

* These tests do not apply to third party products!
**Climatic tests:**
In the climatic test the actuators are tested to operate in extreme temperatures as well as to endure rapid changes in temperature. In some tests, the actuator has to withstand going from a +100°C environment to -30°C repeatedly and still maintain full functionality.

**Mechanical tests:**

**Vibration:** The actuator must withstand continuous vibration in three directions.

**Shock:** The shock test puts the actuator through 3 shocks of up to 100 G in each of 6 directions.

**Bump:** The actuator receives bumps of up to 40 G in each of six directions several hundred times.

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EN60068-2-1 (Ab) - Cold test
EN60068-2-2 (Bb) - Dry heat:
EN60068-2-14 - Change of temperature
EN60068-2-30 - Damp heat
EN60068-2-52 - Salt spray
EN60529-IP66 - Degrees of protection
BS7691/96 hours - Chemicals

EN60068-2-36 (Fdb) - Vibration
EN60068-2-29 (Eb) - Bump
EN60068-2-27 (Ea) - Shock
For further information, please visit our website:
LINAK.COM/BUSINESS AREAS/VEHICLES

TERMS OF USE

The user is responsible for determining the suitability of LINAK products for a specific application. LINAK takes great care in providing accurate and up-to-date information on its products. However, due to continuous development in order to improve its products, LINAK products are subject to frequent modifications and changes without prior notice. Therefore, LINAK cannot guarantee the correct and actual status of said information on its products. While LINAK uses its best efforts to fulfill orders, LINAK cannot, for the same reasons as mentioned above, guarantee the availability of any particular product. Therefore, LINAK reserves the right to discontinue the sale of any product displayed on its website or listed in its catalogues or other written material drawn up by LINAK.

All sales are subject to the Standard Terms of Sale and Delivery for LINAK. For a copy hereof, please contact LINAK.