Focus on Pergolas
When partnering with LINAK you get more than just a product in your hands. It is our goal to create added value to our customers by offering innovative solutions, extensive knowledge, world-class production and global presence.

Opening and closing
Simple actuator movement for opening and closing the pergola blinds
Understanding your needs

From small domestic pergolas to larger public pergola systems, LINAK® offers you high-quality electric actuator solutions - making your pergola system easy to use.

When your customers step into their pergola they look for easy regulation of the shading in order to increase comfort and wellbeing.

System solutions from LINAK TECHLINE® are userfriendly and fit for use in various weather conditions. Come snow, rain or sun, you can rely on the LINAK actuator to do the job.

With many years of experience, LINAK is an excellent choice when considering linear electric actuator solutions for optimal adjustment of pergola blinds.

So what can LINAK offer you:
- Maintenance-free products that can withstand extreme weather conditions
- Low noise level
- Low power consumption
- Actuators that are easy and fast to operate by means of remote controls, app or switches
- Easy to install actuator solution that fits immediately into your application
- Precise positioning and accurate variable control over acceleration and velocity

LINAK as your partner
We do not want to be merely another supplier to our customers. We want to be your partner.

It is important to us that your pergolas work relentlessly in all situations. All our actuators have been put through extensive testing so you can rest assured that your TECHLINE actuator solutions will do the job no matter what.

Furthermore, all members of the TECHLINE team of engineers and consultants have vast product and application expertise.

“With many years of experience, LINAK is an excellent choice when considering linear electric actuator solutions for optimal adjustment of pergola blinds.”

LINAK offers service worldwide
Please contact your local LINAK office with your enquiry.
IC - Integrated Controller™ 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 pergola systems, 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

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™
Actuators for pergolas

LINAK® industrial actuators offer a versatile array of movement solutions for pergola systems.

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**.

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**Actuator LA25**

**Actuator LA23**

**Actuator LA14**
Accessories for pergolas

SMPS-T160

TECHLINE® system solutions improve functionality and add value to your application.

Our systems offer:

• Simple Plug & Play functionality
• Easy integration into your application
• Time saving installation
• Significant minimisation of installation failures
• Possibility of running up to two applications at a time with simultaneous run
• Easy connection of the SMPS-T160 and actuator to your own controller/switch
• Signal cable with open leads enables you to connect your own control along with an RF solution

Robust and powerful

LINAK® products are reliable products, made to last! High quality is the trademark of LINAK, and an element of the highest importance to us.
Accessories for pergola systems

RF receiver
The small and compact RF receiver enables easy control of the actuator with the two below remote controls. Its small form factor makes this device easy to implement into your application.

Features:
- Operating temperature: -20° C +45° C
- Working frequency: 868.3 Mhz (EU) / 916 Mhz (US)
- Range in open space: up to 80 metres
- Protection Class: IP66
- Housing material: polycarbonate
- Cables: integrated
- Cable length: 1500mm
- Compatible via SMPS-T160 with LA12 ICTM, LA14 IC, LA23 IC, LA25 IC, LA35 IC
- Compatible with LA33 IC, LA36 IC, LA37 IC

RF controls

EVO
- Dimensions: 125 x 40 x 10 mm
- Compatible with RF receiver

TXP
- Dimensions: 60 x 30 x 10 mm
- Compatible with RF receiver
Simultaneous run Solution

Compatible with RF or other alternative controls. The cable(s) between the SMPS-T160 and the actuators LA14 and LA25 can be either 300mm or 1500mm. The cable(s) between the SMPS-T160 and the actuators LA12, LA23 and LA35 are 1500mm.
TECHLINE® system solution examples

RF Solution

Actuator
LA12 IC™, LA14 IC, LA23 IC, LA25 IC or LA35 IC

Power supply
SMPS-T160

RF receiver

RF control
* Please note that with an LA35 flying wire solution, the signal cable is connected to the actuator itself, and not the SMPS.
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
LINAK has a world-class sales and service organisation. Today we are present in 35 countries all over the world. For further information, please visit our website: LINAK.COM

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**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.

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