

LINEAR ACTUATOR TECHNOLOGY

TECHLINE™
IMPROVING FLEXIBILITY

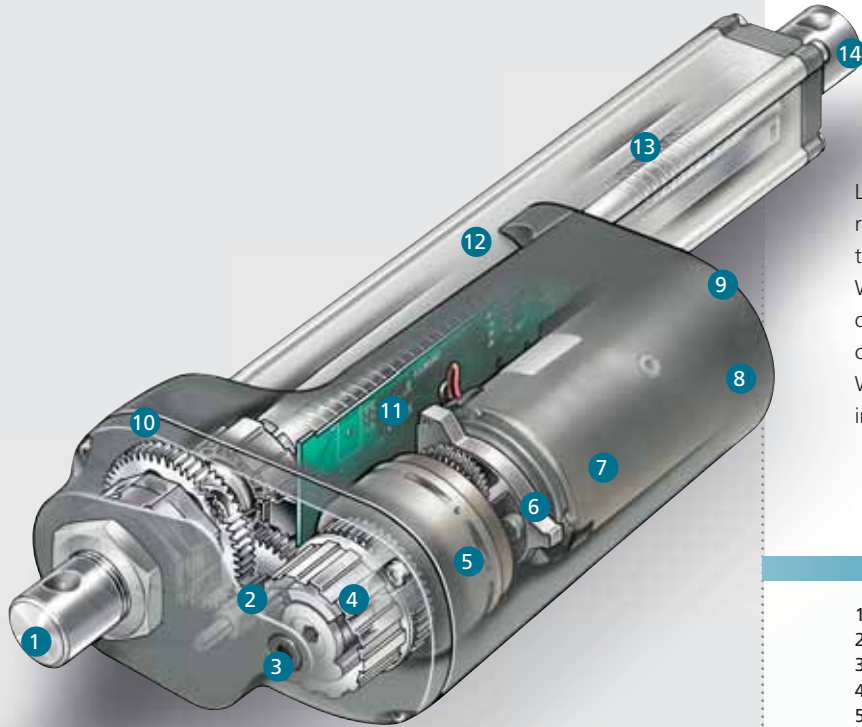


THE COMPLETE TECHLINE® PRODUCT RANGE



LINAK® 
WE IMPROVE YOUR LIFE

THE COMPLETE TECHLINE™ PRODUCT RANGE



LINAK actuator systems ease the load and make work easier. The remarkably wide product range offers something for any imaginable type of movement.

With these actuator systems you can easily reach inaccessible places, open or close sun blinds and roof windows, regulate ventilators, close gates automatically - and save yourself exertion.

Workstations and production lines can be set up individually to increase efficiency and comfort.

1. Turnable back fixture in steps of 30 degrees
2. Optional positioning feedback: Potentiometer or Hall effect sensor
3. Hand crank for manual operation
4. Brake
5. Overload clutch
6. Thermal switch in motor
7. 12, 24, or 36 V DC motor
8. Aluminum housing coated according to corrosion class 4
9. Exchangeable cables
10. High-pressure cleaner proof
11. Built-in end-stop switches (optional)
12. Anodized outer tube
13. Stroke length up to 999 mm
14. Piston rod eye for ½" or 12 mm PIN





There is a colossal number of very different applications in the industrial sector. To ensure that we focus on exactly the application you need we have divided the industrial market into three segments, which share some of the same characteristics and requirements for linear actuators: MOBILE, MACHINERY & WORKSPACE, and BUILDING & CONSTRUCTION

LINAK has a wide experience in integrating actuators into applications and developing solutions, which fit discretely into work processes - so do not hesitate to contact us.

ACTUATOR



COLUMN



FOOT SWITCH



DESK PANEL



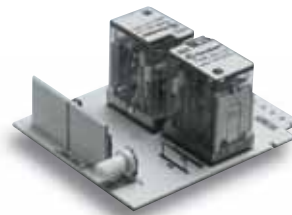
CONTROL BOX



HANDSET



ELECTRONICS



ACTUATORS

Thrust: Max. 750 N
Speed: 5-50 mm/s
Stroke length: 40-130 mm
Duty Cycle: Up to 100%
Voltage: 12/24 V DC
End-stop: Built-in limit switches

Options:

- PLC interface
- Potentiometer
- Reed switch
- IP 66 housing
- ATEX category 2D for zone 21 and 22

Scope of application:

- All kind of mobile applications
- Factory automation
- Ventilation
- Valves
- Dosage

Facts:

- Compact and lightweight
- Reinforced glass fibre

**LA12/
LA12 PLC**



The LA12 actuator is ideal for industrial automation, ventilation systems, and other applications where small movements are required. With LA12 PLC interface.



Thrust: Max. 400 N
Speed: 13-37 mm/s
Stroke length: 50-200 mm
Duty Cycle: 10%
Voltage: 12/24 V DC
End-stop: LS/LSD or current cut-off

Options:

- IP 65 housing
- Different back fixtures
- Various piston rod eyes

LA22



Scope of application:

- Agricultural applications
- Wheelchairs
- All kinds of industrial applications

Facts:

- Solid metal construction
- Unique space saving design
- Low noise level



The LA22 actuator is an in-line actuator specially designed with small overall dimensions for use in industrial, agricultural, and rehabilitation products.



Thrust: Max. 3,500 N
Speed: 3-46 mm/s
Stroke length: 100-600 mm
Duty Cycle: 10%
Voltage: 12/24 V DC
End-stop: Current cut-off

Options:

- Powerful strong motor
- Reed switch
- IP 66 housing
- Safety nut
- Integrated electronic limit switch

Scope of application:

- Agricultural applications
- Lawn and garden equipment
- Floor sweepers
- Factory automation

Facts:

- Powerful and quiet operation
- Reinforced glass fibre
- Use in "push" applications
- Compatible with CB8, CB12, CB14, and CB18



LA28

The LA28/28S actuator (with standard or fast motor) is a very quiet and powerful actuator, designed for use in the furniture, rehabilitation, and hospital bed industries. Agricultural machinery and other outdoor equipment are also other main areas of application.



Thrust: Max. 6,000 N
Speed: 10-52 mm/s
Stroke length: 50-500 mm
Duty Cycle: 10%
Voltage: 12, 24, or 36 V DC
End-stop: LS/LSD or current cut-off

Options:

- Powerful strong motor
- Potentiometer
- Reed switch
- Optical encoder
- IP 66 housing
- Hand crank for manual operation
- Ball screw spindle
- Safety nut

Scope of application:

- Agricultural applications
- Lawn and garden equipments
- Floor sweepers
- Satellite dishes
- All kinds of industrial applications

Facts:

- Solid metal construction
- Compact and powerful
- Suitable for harsh conditions



LA30

The LA30/30S actuator is a very versatile actuator for industrial and system applications. It can be supplied in many customised versions also wheelchairs.



ACTUATORS

Thrust: Max. 6,000 N
Speed: 3-33 mm/s
Stroke length: 50-500 mm
Duty Cycle: 10%
Voltage: 12/24 V DC
End-stop: Built-in limit switches

Options:

- Reed switch
- Hall effect sensor
- IP 66 housing
- Safety nut
- Fast motor

Scope of application:

- Light mobile applications
- Factory automation
- All kinds of indoor applications

Facts:

- Numerous combinations of motor and spindle pitches
- Zinc alloy back fixture
- Compatible with CB7 and CB9



The LA31 actuator is a very quiet and powerful actuator designed for a variety of applications including furniture, care beds etc. It is designed with built-in limit switches.

LA31



Thrust: Max. 6,000 N
Speed: 5,5-15 mm/s
Stroke length: 100-400 mm
Duty Cycle: 10%
Voltage: 12, 24, or 36 V DC
End-stop: Current cut-off

Options:

- Powerful strong motor
- Potentiometer
- Reed switch
- Optical encoder
- IP 66 housing
- Ball screw spindle
- Safety nut
- Integrated electronic limit switch

Scope of application:

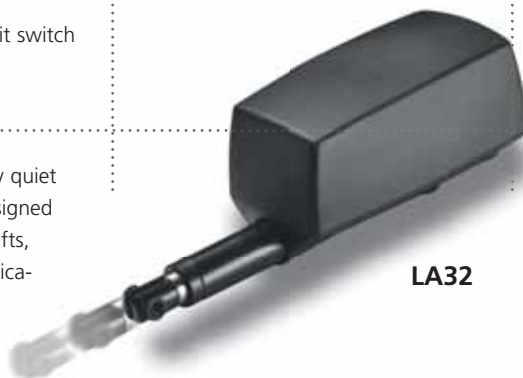
- Agricultural applications
- Lawn and garden equipment
- Floor sweepers
- Factory automation

Facts:

- Powerful and quiet operation
- Reinforced glass fibre
- Use in "push" applications
- Compatible with CB8, CB12, CB14, and CB18

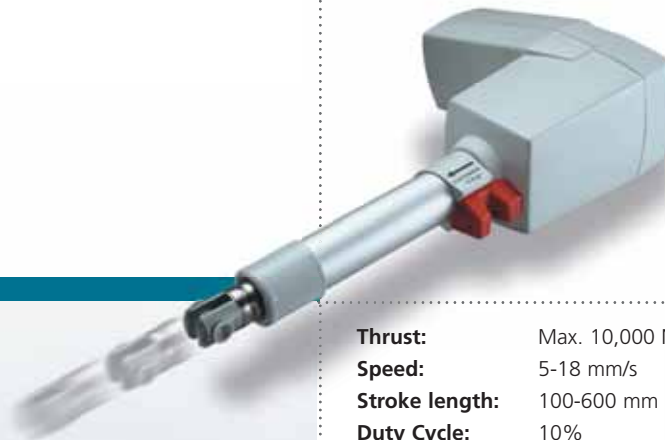
The LA32 actuator is a very quiet and powerful actuator, designed for hospital beds, patient lifts, and other demanding applications.

LA32





LA34



The LA34 actuator is an advanced, high-tech actuator, which can push up to 10,000 N. Its compact design, outstanding performance, and range of safety options makes the LA34 actuator the ideal choice for a variety of medical and industrial applications.

Thrust: Max. 10,000 N
Speed: 5-18 mm/s
Stroke length: 100-600 mm
Duty Cycle: 10%
Voltage: 12/24 V DC
End-stop: Built-in limit switches

Options:

- Potentiometer
- Reed switch
- IP 66 housing
- Compact housing
- Safety nut



Scope of application:

- Mobile applications
- Factory automation
- Scissor lift
- Various numbers of indoor and outdoor applications

Facts:

- Compact
- Outstanding performance
- Low noise level

ACTUATORS

Thrust: 6,800 N
Speed: 12-68 mm/s
Stroke length: 100-699 mm
Duty Cycle: 20%
Voltage: 12, 24, 36 V DC
End-stop: Slip clutch or built-in limit switches

Options:

- Potentiometer
- Hall effect sensors
- Adjustable signal switches
- Integrated electronics

LA36



Facts:

- Solid metal construction
- Hand crank for manual operation
- Suitable for very harsh conditions
- Salt spray tested
- High pressure cleaner-proof

The LA36 actuator is the newest actuator from LINAK®. It has been developed for harsh conditions and is the most robust actuator in our programme. The flexibility and integrated electronics makes it suitable for a vast number of different applications

Scope of application:

- Agricultural applications
- Mobile "off-highway" applications
- Floorsweeper and scrubber
- All kinds of industrial equipments

Thrust: 5,000 N
Speed: 22 mm/s
Max. Amp.: 6
Voltage: 24 V DC

LC2



The LC2 column is an update of the LP2 programme. Depending on the application the LC2' column can be operated either as a single column or several columns in a parallel system by the choice of a control box with microprocessor

Scope of application:

- Height adjustable conveyors
- Factory automation
- Ergonomic work spaces
- Workstations

Options:

- Different profiles
- Reed switch
- Different end plates
- Exchangeable cables

Facts:

- Bending moment 1400 N
- Built-in end-stop switches
- Safety nut as standard
- Robust anodised aluminium surface
- Compatible with CB8, CB9, CB12, CB14, and CB18



LIFTING COLUMNS

Thrust: Max. 6,300 N
Speed: 5-21 mm/s
Stroke length: 195-500 mm
Installation dim.: 405-670 mm
Duty Cycle: 10%
Voltage: 24 V DC
End-stop: Current cut-off

Options:

- Different profiles
- Different end plates
- Integrated gas spring
- Mounting brackets
- Safety nut

LP2

Scope of application:

- Height adjustable conveyors
- Factory automation
- Ergonomic work spaces
- Workstations



Facts:

- Robust anodised aluminium surface
- Low noise level
- Compatible with CB8, CB12, CB14 and CB18

The LP2 lifting column is the ideal choice for height adjustment of examination tables, work benches as well as for industrial applications. It can be operated with two, three, or four columns in parallel.

Thrust: Max. 2,400 N
Speed: 7-18 mm/s
Stroke length: 300-600 mm
Installation dim.: 360-550 mm
Duty Cycle: 10%
Voltage: 24 V DC
End-stop: Current cut-off

LP3

Options:

- Reed switch
- Mounting brackets
- Safety nut



The LP3 lifting column is ideal for applications where there is a demand for both lifting height and small installation dimensions. The telescopic column is compatible with LINAK's control units and can operate individually or in parallel.

Scope of application:

- Height adjustable conveyors
- Factory automation
- Ergonomic work spaces
- Workstations

Facts:

- Very compact 3-stage column
- Robust anodised aluminium surface
- Low noise level
- Compatible with CB8, CB12, CB14, and CB18

CONTROLS



HB40



HB50



The controls are the units used when you want the LINAK system to perform a movement. They determine whether the control box makes the actuator move in or out. There are more variants of LINAK® controls such as handsets, Foot Switches, Desk Panels, and Attendant Control Panels. All the handsets are available in both black and grey.

Facts:

- Operation of up to four actuators
- Compatible with CB8, CB9, CB12, CB14, and CB18
- Ergonomic, compact design
- Robust (sturdy) plastic housing
- Protection class up to IP 66

Facts:

- Operation of up to four actuators
- Compatible with CB8, CB9, CB18
- Ergonomic, compact design
- Robust (sturdy) plastic housing
- Operation of the memory functions of the actuators
- Protection class up to IP 66

FS



DP



Facts:

- Operation of one or two actuators/channels
- Compatible with CB8, CB9, CB12, CB14, or CB18
- Modular system
- Protection class up to IP 66

Facts:

- Operation of the memory functions of the actuators
- Operation of up to three actuators/channels
- Compatible with all LINAK® control boxes
- Mounting under tabletops
- Protection class IP 30

CONTROL BOXES

CB7



Actuator: LA29, LA31
Duty Cycle: Max. 10%
Max. amp (Σ): 4
Channels: Max. 2
 External transformer necessary

CB8-A



Actuator: LA12, LA28, and LA30
Duty Cycle: Max. 10%
Max. amp (Σ): 10
Channels: Max. 3
 Battery operated

CB8-T



Actuator: LA12, LA28, and LA30
Duty Cycle: Max. 5%
Max. amp (Σ): 8
Channels: Max. 2

The control box is the heart of the system linking the various external parts (actuators, controls, and ACP), which can be connected. In recent years LINAK has introduced several different control boxes, from small control boxes suitable for powering one or two actuators to sophisticated control boxes with microprocessors suitable for powering up to six actuators. The control boxes are all available in black or grey.



CB9



Actuator: LA31 and LA34
Duty Cycle: Max. 10%
Max. amp (Σ): 7
Channels: Max. 4

CB12



Actuator: LA28, LA30, and LA34
Duty Cycle: Max. 10%
Max. amp (Σ): 8
Channels: Max. 4
 Optional battery operated

CB14



Actuator: LA28, LA30, and LA34
Duty Cycle: Max. 10%
Max. amp (Σ): 10
Channels: Max. 5
 Optional battery operated

CB18



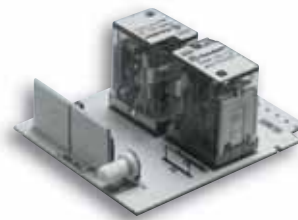
Actuator: LA28, LA30, and LA34
Duty Cycle: Max. 10%
Max. amp (Σ): 10
Channels: Max. 4
 Optional battery operated

ACCESSORIES



LINAK® has developed accessories over the years based on customers' needs. Accessories offered by LINAK include potentiometers, electric pulse encoders (reed switch), safety nuts, splines, and LS/LSD (signals for end-stop)

CS16



Facts:

- Mounting between the LINAK actuator and a non-LINAK control box
- Compatible with all actuators
- Disconnects the power supply in end-stop or at obstacles

LS/LSD



Facts:

- Limited stroke length of the actuator to avoid damage of the system
- LSD - disconnects the power supply in end-stop
- LS - at end-stop a signal is sent to the control box
- Compatible with the actuators LA28 and LA30

LA30 WITH BELLOW



Facts:

- Give a better protection and therefore give a higher lifetime of the actuator

BELLOW



Facts:

- Protects inner tube against dust and dirt
- Can be used for actuators: LA22, LA28, LA30, LA31, and LA32
- Does not change the IP rating
- Available in black colour
- Ask for special folder

SLS



Facts:

- Protection class IP 66
- Can be fitted on the motor cable of the actuator.
- Cut off the motor current for the actuator in outward OR inward direction
- Available in grey colour



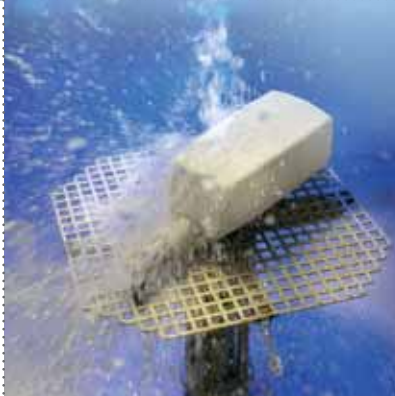
QUALITY ON TIME

When LINAK develops and produces products quality is the keyword for our employees. LINAK constantly strives to improve the quality and to reduce the risk for faults, which contributes to the fact that our customers experience LINAK as a supplier of high-quality products.



APPLICATION TEST

Even the most stringent test specifications and high product quality cannot secure against inexpedient use of our products. An incorrect mounting or overload of the products can have great consequences to our customers. LINAK therefore always recommends our customers to carry through an application test when implementing our products. LINAK's sales force has wide experience in integrating our products into applications and is always willing to advice our customers.



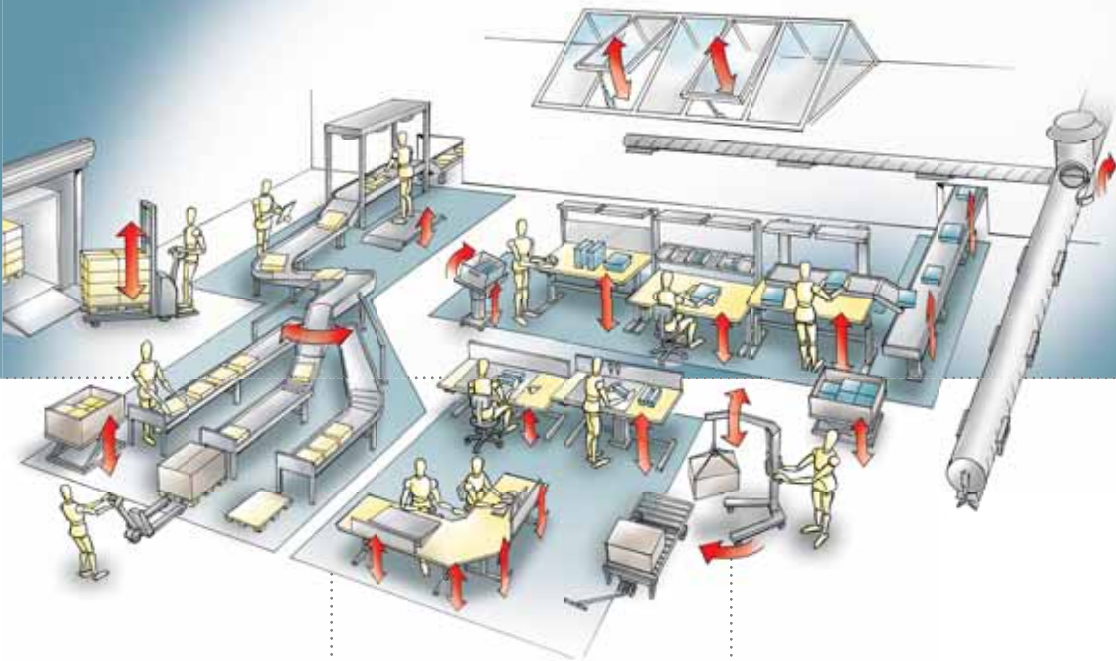
Test is an important part of a development course at LINAK. More than 200 actuators are tested every day all the year round.

Static IP X6 test of the LA32. The actuator must be able to withstand 100l/minutes for 3 minutes.

A WIDER RANGE OF SOLUTIONS

Linear actuators from LINAK® make it possible to easily and economically adjust various functions in a wide number of applications. LINAK TECHLINE™ solutions can improve several facets of your company's working environment including ergonomic lifting, cost-effective automation, and ventilation.

Our comprehensive product programme can be tailored to match your specific needs. LINAK TECHLINE™ solutions allow you to adapt your workplace to your workers rather than the other way round.



www.techline.linak.com

