

FOCUS ON

INDUSTRIAL AUTOMATION

LINAK designs products that improves efficiency, and boost productivity in industrial automation

www.linak.com/techline

Understanding your needs

Machine builders and users will realise significant improvements in machine productivity and efficiency by using electrical solutions with advanced features as standard. The machine builders will benefit from lower costs, easier installation, and easier integration which gives advantage over the competitors.

The end-user will benefit from improved control and accuracy, but even more important is maximised machine up-time and zero maintenance on critical machine operations.

Electric actuators improve productivity and costs on several fronts as the users can eliminate pumps and compressors as well as hoses and valves etc.

LINAK understands your business and know the importance of flexibility and reliable solutions in the modern industrial automation business.

Key words as zero downtime, fast change-over, high degree of safety and focus on ergonomics are essential subjects when selecting solutions.

LINAK has many years of experience as a sub-supplier within this business and knows what it takes to supply actuator systems that put flexibility and reliability first.



Choose LINAK for...

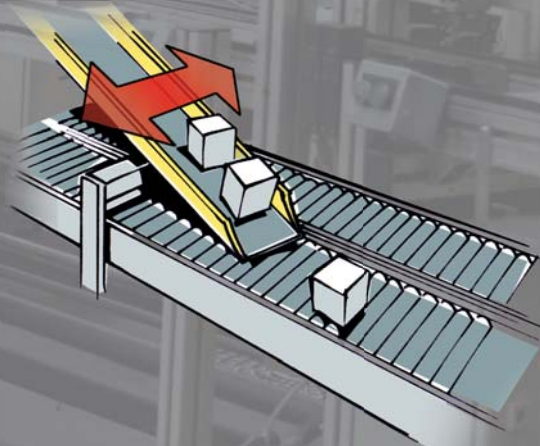
A Knowledgeable Partnership

Multilevel cooperation with our customers is extremely important, for the benefit of both LINAK and the customer. Partnership is the driving force behind R&D, aftersales, logistics, manufacturing, and marketing.



So what can LINAK do for the industrial automation?

- Supply reliable products designed specially for the industrial market
- One supplier of complete actuator solutions for almost any requirement
- Maintenance-free products with long lifetime
- Excellent feedback, positioning, and PLC solutions
- It is very easy to store the positions of the actuators, for fast change-overs
- High degree of flexibility
- Close cooperation with our sales and application engineers, represented in more than 30 countries
- A worldwide network of aftersales service
- Good price/performance ratio compared to air and hydraulics



APPLICATIONS FOR INDUSTRIAL AUTOMATION

Process machinery

Open and closing access covers, to increase workers safety etc. Work-platforms for increased motivation and job satisfaction.

Feeders

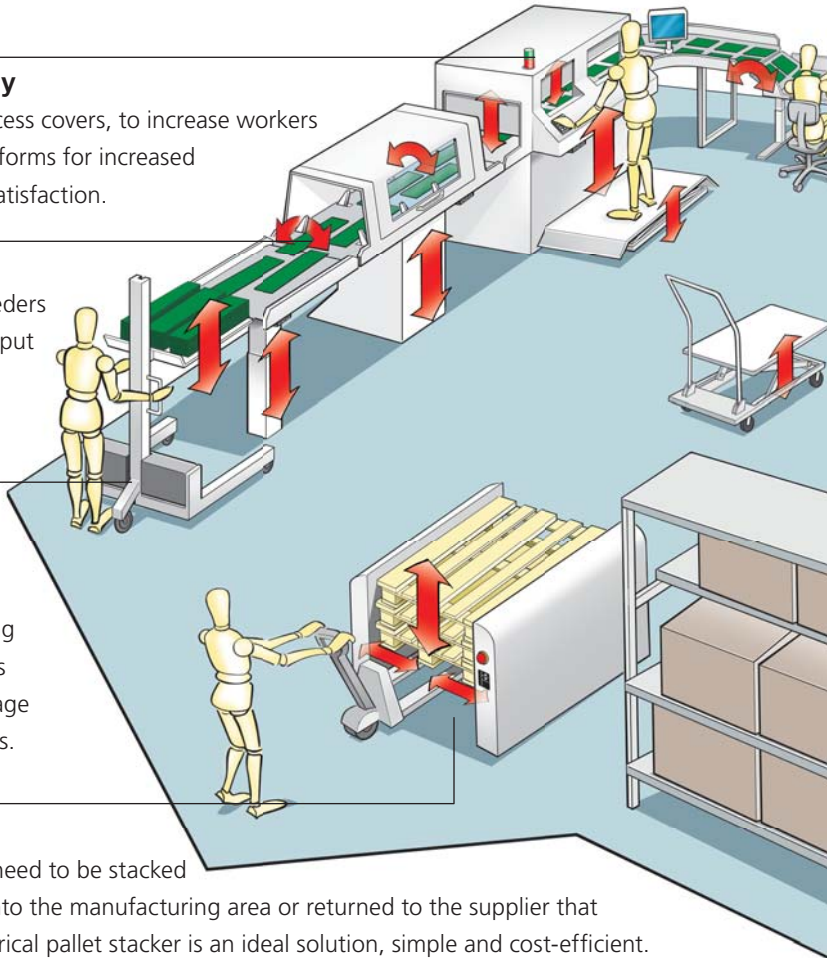
Height adjustable feeders to ensure the right input position of the raw material.

Stackers

The versatility of stacker's makes them ideal for feeding pallet racks as well as any other pallet storage or transfer operations.

Pallet stacker

Pallets when empty need to be stacked and delivered back into the manufacturing area or returned to the supplier that owns them. An electrical pallet stacker is an ideal solution, simple and cost-efficient.



Choose LINAK for...

Knowledge

At LINAK we focus on our core competence – production of actuator systems. But we do more than this. We want to understand our customer's business by focusing on the individual customer's needs, market intelligence, and application know-how.



Workstations

Height adjustable industrial assembly/control tables, even at heavy loads the operator can adjust the table whenever needed.

TECHLINE
IMPROVING FLEXIBILITY

Soldering ovens

Opening and closing the cover of the soldering oven.

Packing units

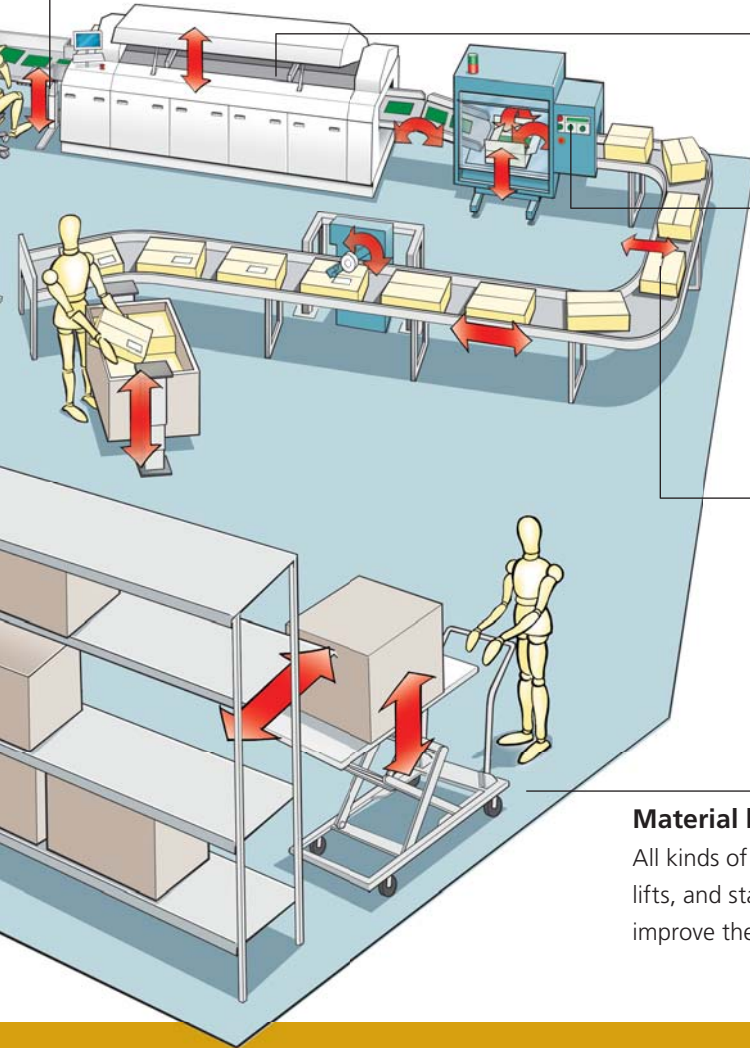
Several movements are needed in packing or wrapping stations.

Conveyor belts

Height adjustable conveyor belts, regulations of the belt, and wide adjustment of the belt etc.

Material handling

All kinds of material handling, portable lifts, and stackers. Electrical solutions improve the flexibility in the stock area.



ACTUATORS FOR INDUSTRIAL AUTOMATION

RELIABLE AND TOUGH

- Max thrust up to 10,000 N
- Max speed up to 160 mm/sec
- Standard stroke 100-999 mm
- Heavy duty aluminum housing for harsh conditions
- Protection class IP 66 / IP 69K
- Integrated brake, high self-locking ability
- Voltage 12, 24, or 36 V DC
- Hall sensors or potentiometer for relative or absolute feedback
- Adjustable magnetic sensors for end-stop signals
- Self-locking ability

The LA36 actuator is our most solid and powerful actuator designed to operate under extreme conditions, a very strong alternative to hydraulic or pneumatic solutions.



LA36

Choose LINAK for...

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.



FLEXIBLE AND POWERFUL

- Max thrust up to 6,000 N in push and up to 4,000 N in pull
- Heavy-duty aluminium housing for harsh conditions
- Protection class IP 66 dynamic, IP 69K static
- Stroke up to 600 mm
- Easy to use interface – with integrated power electronics for direct connection to control system
- Potential free limit switches as an option
- Hall sensors or potentiometer for relative or absolute feedback, regardless of the stroke length.
- Built-in limit switches and brake
- Voltage 12 or 24 V DC

The LA35 actuator is a new member of the TECHLINE® family. It is characterised by its robust design allowing the actuators to be used in harsh and extreme conditions. The LA35 actuator is designed to meet the challenge, based on the philosophy that it must be able to operate on off-highway equipment such as agriculture, forestry and construction machines.



LA35

ACTUATORS FOR INDUSTRIAL AUTOMATION

SMALL AND ROBUST

- Max thrust 750 N
- Max speed 50 mm/sec
- Standard stroke 40-130 mm
- High quality reinforced plastic housing protects motor and gear
- Build-in limit switches and EOP (PLC version)
- Voltage 12-24 V
- Hall sensors or potentiometer for relative or absolute positioning.
- Protection class IP 51, IP 65, or IP 66

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



LA12 PLC

RUGGED AND COMPACT

- Max Thrust up to 6,000 N
- Max Speed up to 65 mm/sec
- Standard stroke 50-600 mm
- Stainless steel piston rod
- Protection class IP 66
- Potentiometer for positioning
- Elegant and compact construction with small installation dimensions
- Self-locking ability

The LA30 actuator has been in the industrial market for more than 20 years. It is a very reliable and versatile actuator for all kinds of industrial applications.



LA30

Choose LINAK for...

Global Presence

LINAK has a well-developed sales and service organisation in Europe, America, Asia, and Australia. Therefore, we can assist you and your customers locally, under the global sales concept idea: Be global, act local



Actuators with PLC Interface

The PLC-actuator is ideal for factory automation, ventilation, and other industrial equipment controlled by a programmable logic controller.

The actuator is for easy interface with most common PLC's.

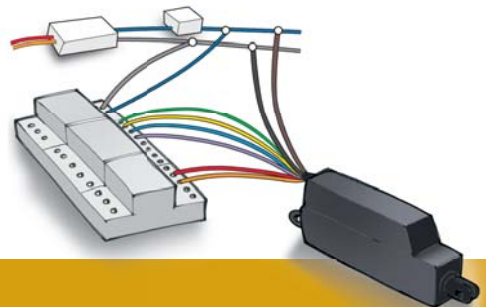
The integrated relays and electronic overload protection makes it possible to connect the PLC-actuator directly to the in-outputs row at the PLC.

The actuator with interface PLC from LINAK is the obvious choice for automation of conveying plants etc. demanding a short linear movement.

Some key features on the PLC version:

- Relative or absolute positioning
- Hall sensor – It is possible to have encoder pulses with a resolution down to 0.5 mm per pulse. This signal can be connected directly to the PLC's standard input.

- Potentiometer
The analogue signal for absolute positioning gives a 0-10 Volt signal, which can be connected to the PLC's standard analogue input.
- End-stop monitoring
The built-in end-stop switches that stop the actuator when reaching end of stroke, individual signals for both end-stops are available for the user and can be connected directly to the PLC.
- Safety
The integrated Electrical Overload Protection (EOP) ensures that the actuator and machinery will not be damaged due to an unforeseen overload situation. Furthermore, the motor temperature is monitored.



COMPLETE SYTEM FOR INDUSTRIAL AUTOMATION

STEADY AND STABLE

- Max load per leg 1,000 N
- Stroke length up to 500 mm
- Speed 50 mm/sec unloaded
- Very high self-locking ability
- For single operation

The DL2 is designed for applications where it can be operated as a single column or in parallel. An obvious choice for height adjustable workstations, conveyor belts etc.



EXTREMELY POWERFUL

- Max load per leg 6,300 N in push
- Stroke length up to 500 mm
- Up to four columns in parallel
- Extremely high self-locking ability

The parallel functionality gives a varetly of application opportunities from work platforms to advanced industrial automation.



DE LUXE MODEL

The CBD4 control box is an innovative microprocessor based control box, which ensures an optimum parallel drive, memory, and a very low noise level. The mains cable is exchangeable.

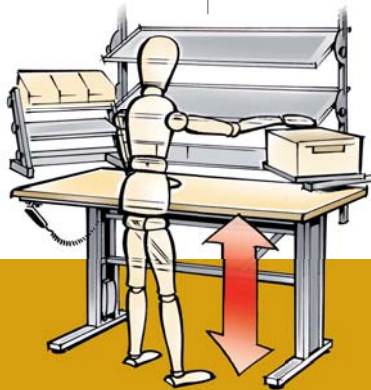
CBD4



EASY CONTROL

The DP Desk Panel is a compact unit, which offers you the choice of memory with up to 4 memory positions or e.g. control of up to 3 independent desks. Furthermore, the DP is available in different versions offering e.g. a lock function (with key) or display.

DP1

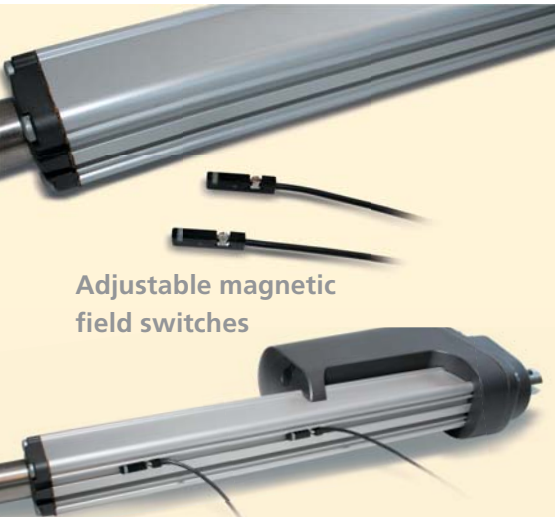


ACCESSORIES

ADJUSTABLE SWITCHES

- Can be placed along the complete stroke length
- High switching power
- Long electrical lifetime
- Mountings can be made on several cylinders on the market
- IP 66 with a 3 meter cable

(*)



Adjustable magnetic field switches

COMPLETE CONTROL

- Power supply in 230 V AC 50/60 Hz 150 VA
- Out 24 V DC 6A Nominal
- Max 10 Amp.
- With or without TR-EM-208

(*)



CONTROL BOX

Choose LINAK for...

Innovation

Innovation is the key word to the success of LINAK. Today LINAK is the company within manufacturing of linear actuator systems to bring most new products to the market and to hold most technology-based patents. Therefore we can always offer the newest technology, giving our customers a competitive edge.



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

(*)



**MOTOR CONTROLLER
TR-EM-208**

EASY OPERATION

- For all actuators with limit switches
- Easy operation of actuators without use of further electronics
- IP 66 for outdoor use
- Easy to install
- Tested with an LA36 12 V DC for 50,000 operations

(*)



ROCKER SWITCH

COMPLETE CONTROL



PARALLEL CONTROLLER

- Synchronized parallel control for 2 actuators
 - Operates with pulse feedback (Hall or Reed)
 - Current and temperature limited
 - Soft start/stop
 - Adjustable drive speed
 - Accurate repeatability
 - Easy setting via serial interface
- (*)

(*) "The specified product is a third party product that is produced by third party and distributed by LINAK as a supplement to LINAK's 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."

BROAD PRODUCT RANGE – FOR ALL DEMANDS

LINAKs TECHLINE® products are designed to function under harsh conditions. This makes us the ideal partner for machine builders within the automation industry. Moreover, the many optional possibilities make electric linear actuator systems a good and economic alternative to gear motors, air, and hydraulics.

- Robust and stable design
- Lift up to 680 kg per actuator
- Smooth and controlled operation – good positioning and feedback
- 4 actuators in parallel operation
- Potentiometer for an absolute and stable feedback of the actuator position
- Linking with PLC



It must be easy for the customers to do business with LINAK. Therefore, we offer both standard components and customised special solutions according to demand. The customer has the task and the demands and in close cooperation with our sales consultants and our engineering staff we prepare an optimal solution.

100% function test

The LINAK Group disposes of extensive test facilities. All products go through a 100% function test before leaving the factory.

PRODUCT TESTING

Our products undergo thorough climatic, electrical and mechanical testing.

Testing for resistance to both dust and water



CLIMATIC TESTING:

- Extreme Temperatures
- Rapid Temperature Changes
- Salt Spray
- Chemicals



ELECTRICAL TESTING:

- Power Supply
- Power & Signal Cables
- Control Signals
- Electrical Immunity



MECHANICAL TESTING:

- Vibration
- Shock
- Bump



As technology advances, LINAK will continue to develop products that improve the quality of people's lives and their working environment.

LINEAR ACTUATOR TECHNOLOGY

LINAK - many years of experience from the industry

LINAK has over 25 years' experience as a supplier of linear movement for a broad selection of mobile and stationary applications in the industrial sector.

Application examples are automation of machine plants, adjustment of agricultural equipment, regulation of roof light windows, ventilation systems, combine harvesters, assembly lines, kettles, valves, and throttles. In brief, any purpose in the industry where a linear movement is required and where LINAK TECHLINE® can be used to facilitate working operations and maintenance.

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 fulfil 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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