



Focus on  
**Ventilation and  
Farming Solutions**

# Understanding your needs

---

For many years, LINAK® has been a sub-supplier to several ventilation equipment manufacturers and stable designers all over Europe. Our reference list is long and we are proud of our good reputation. However, we also know that an image like this does not create itself. Therefore, we work even harder when designing solutions and we know what it takes to supply actuator systems where flexibility and reliability are the top priority.

Ventilation equipment manufacturers and suppliers realise significant improvements by using linear actuators from LINAK. Easy installation, excellent feedback and integration are some of the features that may provide your business with a competitive advantage in the marketplace.

An electric actuator from LINAK is an obvious choice for harsh environments with moisture, dust and temperature changes; we know how essential a well-operating ventilation system is for the farmer.

## What LINAK has done for the ventilation industry for more than 20 years:

- Supplied maintenance-free products with a long lifetime
- Excellent feedback and positioning
- Supplied solutions where a high degree of protection-IP is required
- Designed customised solutions for the end-users
- Provided systems with battery backup, alarm and safety options etc.
- Supplied actuators that are easy to install and operate
- Offered close cooperation with our well-educated sales and application engineers, represented in more than 30 countries





## LINAK as your partner

We do not only want to be a supplier. We want to be your partner.

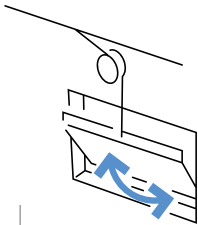
When partnering with LINAK you get more than just a product in your hands. Our goal is to create added value to our customers by offering innovative solutions, extensive know-ledge, world-class production and global presence.



# What LINAK actuators do for ventilation and farming solutions

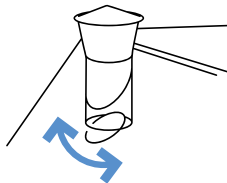
Reliable and adequate ventilation in animal houses is essential to farmers. The ventilation system takes care of adjusting the temperature and the humidity of the air as well as regulating the indoor climate by cleaning out dust, fumes and natural gasses. An insufficient or malfunctioning ventilation system can cause serious - even fatal - problems for livestock.

LINAK® electric actuator systems are very well suited for a lot of applications that could improve the working conditions for a modern farmer. Automatic adjustment of the feed flow, control of valves and cover lifts or adjustment of the windows are just a few examples.



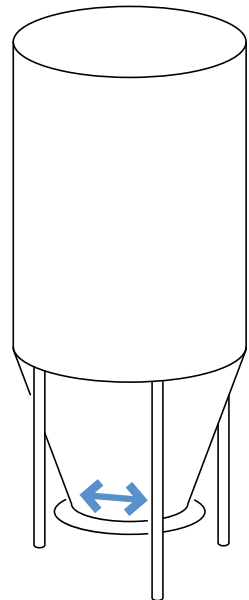
## Inlet valves

Stepless adjustment of inlet valves to ensure an acceptable and healthy indoor climate in order to increase the productivity and to avoid diseases.



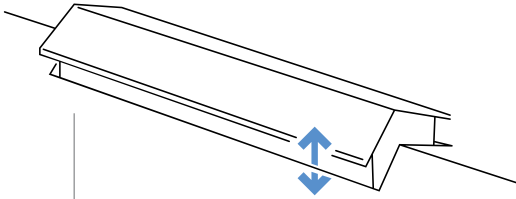
## Ventilation dampers

The actuator can be used for stepless opening and closing of ventilation dampers for air outlet, depending on temperature level, humidity or vacuum etc.



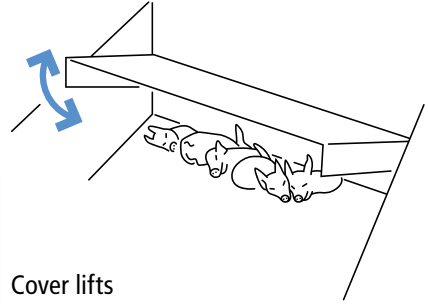
## Agriculture valves

For example slurry valves and fodder valves are often placed in positions where access can be limited; therefore, electrical solutions can be very beneficial for the user.



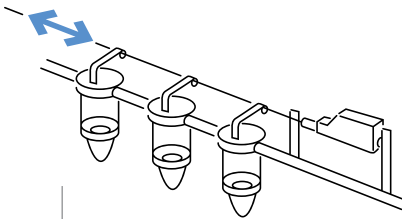
### Natural ventilation

Changing the air is essential when working with animals. Therefore, natural ventilation is a must in many stables.



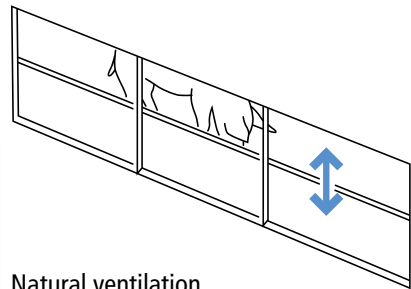
### Cover lifts

Young pigs need warm and protected places where they can rest during the day. However, the farmer needs to check their condition occasionally. With electrical cover lifts he can gain an overview of the complete stable within minutes.



### Feed units

In modern farming industries the amount of feed is measured very carefully. By using an actuator it is possible to adjust the feed flow proportionately according to the particular feeding programme required.



### Natural ventilation

Changing the air is essential when working with animals. Therefore, natural ventilation is a must in many stables.

# 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™***



# IC movement for ventilation

---

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 ventilation 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 well-tested 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.

---

## Integrated Controller:

- Customisable feedbacks
- Parallel movement
- BUS communication



For more information on IC, please go to

**[LINAK.COM/SEGMENTS/TECHLINE/TECH-TRENDS/INTEGRATED-CONTROL/](https://www.linak.com/segments/techline/tech-trends/integrated-control/)**

---

# Actuators for ventilation and farming solutions

---

## Actuator LA36 - reliable and tough

The actuator LA36 is one of the most solid and powerful LINAK actuators, designed to operate under extreme conditions. The LA36 is a maintenance-free product with a long lifetime and a high IP degree. This high-quality actuator offers a very strong alternative to hydraulic solutions.



### LA36 features:

- Max thrust up to 10,000 N
- Max speed up to 160 mm/sec
- Standard stroke 100-999 mm
- Heavy-duty aluminium housing for harsh conditions
- Protection class IP66 / IP69K
- Integrated brake, high self-locking ability
- Voltage 12, 24 or 36 V DC
- Hall sensors or potentiometer for relative or absolute feedback, regardless of the stroke length
- Endstops: slip clutch or built-in limit switches
- Solid metal construction
- Hand crank for manual operation
- Salt and chemical tested
- High-pressure cleaning resistant
- Available with IECEx and ATEX certification
- **Available with IC™**





## Actuator LA35 - flexible and powerful

The actuator LA35 is a powerful actuator with a low noise level. It is designed for a variety of both indoor and outdoor applications and provides a practical, cost-effective solution with low power consumption.

### LA35 features:

- Max thrust up to 6,000 N in push and up to 4,000 N in pull
- Stroke up to 600 mm
- Protection class IP66 dynamic / IP69K static
- Voltage 12 or 24 V DC
- Heavy-duty aluminium housing for harsh conditions
- 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
- **Available with Basic IC™**



# Actuators for ventilation and farming solutions

---

## Actuator LA33 - tough and powerful

The actuator LA33 is a true mid-size actuator that combines compact design and high power in one solution, fit for use in the most extreme environments. A thorough and demanding testing programme forms the basis for the maintenance-free and long lasting performance of this solid and high-quality actuator.



### LA33 features:

- Max thrust up to 5,000 N
- Max speed up to 30 mm/sec
- Standard stroke 100-600 mm
- Heavy-duty aluminium housing for harsh conditions
- Solid metal construction
- Protection class IP66 / IP69K
- Integrated brake, high self-locking ability
- Voltage 12 or 24 V DC
- Hall sensors for relative or absolute feedback, regardless of the stroke length
- Built-in enstop switches
- Hand crank for manual operation
- Salt spray and chemical tested
- **Available with IC™**

## Actuator LA25 - tough and compact

With its robust design, high IP degree and aluminium housing, the actuator LA25 is ideal for harsh environments where operation under extreme conditions is required. Furthermore, the compact dimensions of the LA25 make it applicable for confined spaces.



### LA25 features:

- Max thrust up to 2,500 N
- Max speed 13 mm/sec
- Standard stroke 20-300 mm
- Protection class IP66 and IP69K
- Voltage 12 or 24 V DC
- Built-in electrical endstop
- Available with IECEx and ATEX certification
- **Available with IC™**

# Actuators for ventilation and farming solutions

## Actuator LA14 - robust and reliable

The actuator LA14 is a very tough actuator with a high IP degree and aluminium housing, making it ideal for use in harsh and demanding environments. The LA14 offers top quality in every detail and ensures reliable performance in temperatures ranging from -40° to +85 °C. With its small size the LA14 is well suited for applications that require short linear movements.



### LA14 features:

- Max thrust up to 750 N
- Max speed up to 45 mm/sec
- Standard stroke 40-130 mm
- Voltage 12 or 24 V DC
- Protection class IP66 dynamic / IP69K static
- Available with IECEx and ATEX certification
- **Available with IC™**



## Actuator LA12 - reliable and compact

Thanks to its small size and outstanding performance, the actuator LA12 provides a practical and cost-effective alternative to small-scale traditional hydraulic and pneumatic systems. The LA12 is ideal for applications requiring short linear movements. After many years on the market, the actuator LA12 demonstrated that it is a very reliable and robust actuator that can handle almost any situation and challenge.

### LA12 features:

- Max thrust: 750 N
- Max speed: 40 mm/sec
- Standard stroke: 40-130 mm
- Protection class IP66
- Voltage 12-24 V
- **Available with Basic IC™**



# Accessories for ventilation and farming solutions

---

## SMPS-T160

The SMPS-T160 is a powerful Switch Mode Power Supply typically used for outdoor applications within the TECHLINE® segments. SMPS-T160 is an eco-friendly solution due to a low standby power consumption compared to traditional transformer solutions.

The universal input voltage makes the SMPS adaptable to the worldwide market irrespective of the input voltage.



### SMPS-T160 features:

- Input: 100VAC to 240VAC
- Output: 29V DC, 5.5Amp, 20% duty cycle at 25°C
- Standby: 0.1W
- Protection Class: IP66
- Housing: Anodised aluminum
- Cables: Exchangeable
- Compatible with LA12 IC™, LA14 IC™, LA23 IC™, LA25 IC™ and LA35 IC™

# 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.\*

(\*) 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.

- 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



- EN600068-2-1 (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





## Global presence

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



For further information, please visit our website:

[LINAK.COM/BUSINESS-AREAS/FARMING/](https://LINAK.COM/BUSINESS-AREAS/FARMING/)

---

### 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.

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

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](https://LINAK.COM)

**LINAK**®   
WE IMPROVE YOUR LIFE