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.

“For more than 20 years, LINAK has supplied maintenance-free products with a long lifetime for several ventilation equipment manufacturers and stable designers all over Europe.”

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

Strategic partnerships within R&D, after sales, logistics, marketing, and manufacturing
LINAK offers service worldwide

Please contact your local LINAK office with your enquiry
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.

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

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

**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.
IC movement for ventilation and farming

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 and farming 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 marine boats.

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. Also, the actuators LA36, LA25 and LA14 are certified according to IECEx and ATEX and can be operated in dust explosive atmospheres.

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

---

**Actuator LA36**

**Actuator LA35**

**Actuator LA33**
Accessories for ventilation and farming

Actuator LA25

Actuator LA14

Actuator LA12

SMPS-T160
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.

**EN600068-2-1 (Ab)** - Cold test
**EN600068-2-2 (Bb)** - Dry heat:
**EN600068-2-14** - Change of temperature
**EN600068-2-30** - Damp heat
**EN600068-2-52** - Salt spray
**EN60529-IP66** - Degrees of protection
**BS7691/96 hours** - Chemicals

**EN600068-2-36 (Fdb)** - Vibration
**EN600068-2-29 (Eb)** - Bump
**EN600068-2-27 (Ea)** - Shock
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.