



FOCUS ON THE
food and beverage

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Why stainless actuators in the food industry

Companies within the food industry face many daily challenges. Beyond the constant attention to food safety and process optimisation there has come ever more focus on ergonomic working postures in recent years. Several investigations indicate e.g. that an ergonomically correct working posture can be a contributory factor to prevent work-related suffering.

For adjustment and regulation of plants LINAK has stainless actuators for all sorts of linear movements. We offer:

- An environmentally friendly design – no risk of leakage of dangerous liquids causing breach of the food safety
- Easy-to-clean products that can withstand strong detergents and cleaning demands
- Good overall economy compared to solutions based on air and hydraulics – the products are easy to install, to operate, and to service/maintain
- A complete stainless actuator system, adapted to the customer's electronic solutions



The employees can be spared for straining work postures with machine plants mounted with linear actuator technology. Workstations can be individually adjusted according to demand. This improves the working environment for the individual employee and can contribute to reducing the absenteeism in the long run.



Photo: Danish Crown in Blans

Working environment and hygiene

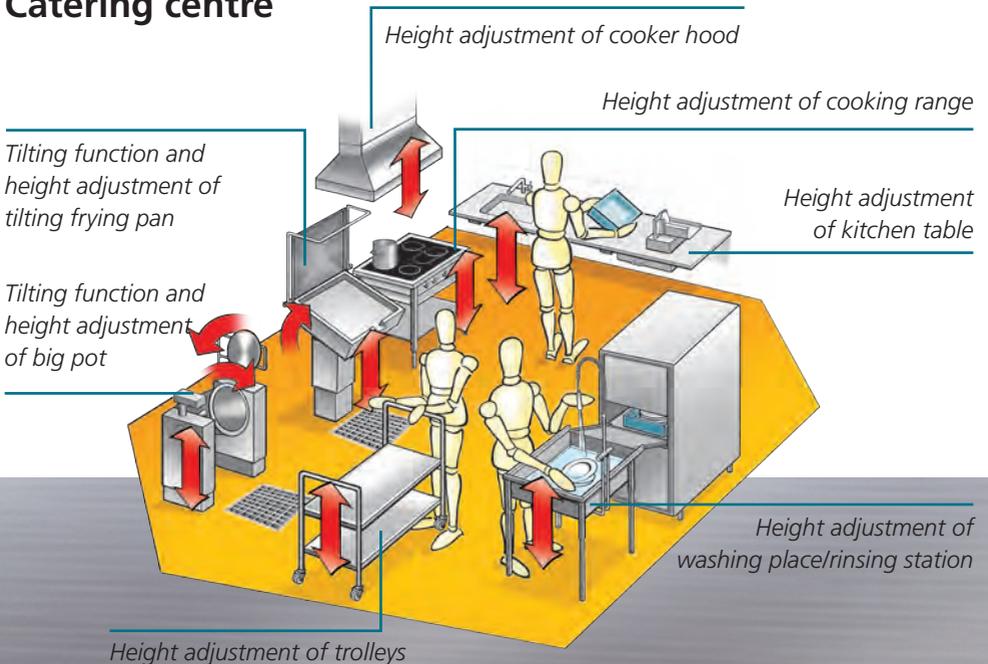
At Danish Crown in Blans they slaughter approx. 43,000 pigs a week. There are heavy demands on hygiene and adjustment of the workplace according to the demand of the individual employee.

Actuators from LINAK facilitate the operations

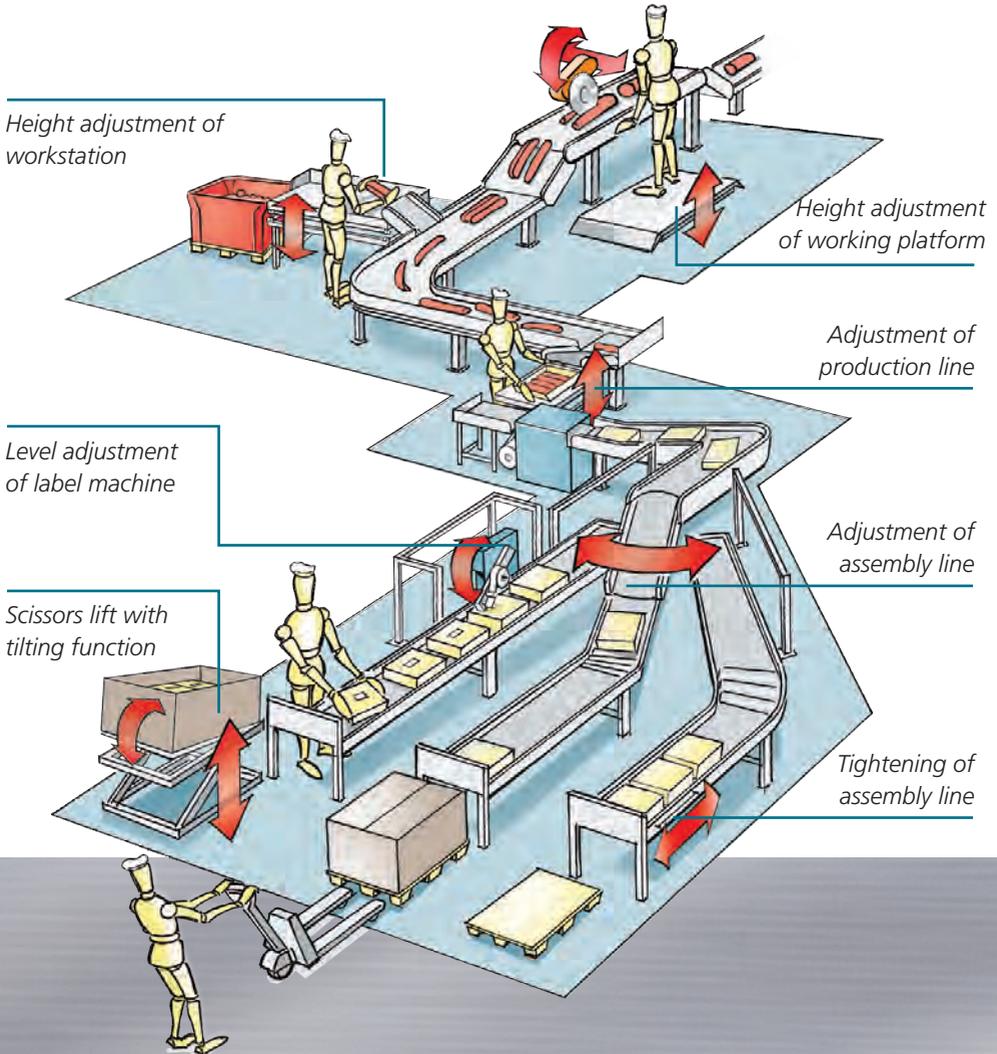
Actuator systems from LINAK can handle almost all imaginable raise-, lower-, adjusting- or regulation tasks. The systems are essential elements in optimising working processes within the food industry, e.g. slaughterhouses, breweries, and catering centres.

The illustrations show an extract of the many applications with electric linear actuators.

Catering centre



Production line in the food industry



Actuator programme

All steel parts are made of stainless steel

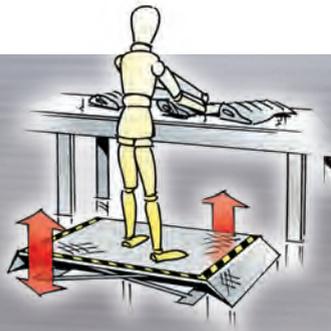


LA36

RELIABLE AND TOUGH

- Max thrust up to 10,000 N
- Max speed up to 160 mm/sec
- Standard stroke length 100-999 mm
- Robust aluminium housing for harsh conditions
- Protection class IP 66 / IP 69K
- The actuator can be washed with a high-pressure washer
- Integrated brake, high self-locking ability
- Voltage 12, 24, or 36V DC

Developed for harsh and demanding working conditions, e.g. in connection with process optimisation in the food industry - good alternative to many machine plants with hydraulics.

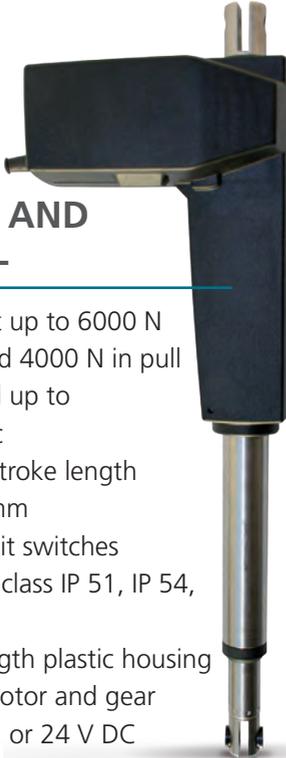
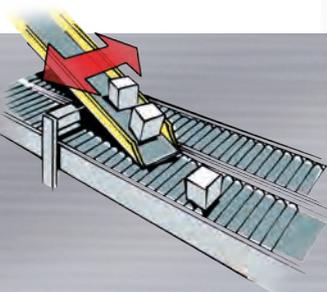


LA31

VERSATILE AND POWERFUL

- Max thrust up to 6000 N in push and 4000 N in pull
- Max speed up to 33 mm/sec
- Standard stroke length 100-300 mm
- Built-in limit switches
- Protection class IP 51, IP 54, or IP 66
- High-strength plastic housing protects motor and gear
- Voltage 12 or 24 V DC

High capacity and a compact design combined with many options. A flexible solution in many industrial machine plants.



SMALL AND ROBUST

- Max thrust 750 N
- Max speed 50 mm/sec
- Standard stroke length 40-130 mm
- High-strength plastic housing protects motor and gear
- Built-in limit switches and electrical overload protection (EOP)
- Voltage 12-24 V
- Protection class IP 51 or IP 66
- Option: Programmable Logic Controllers (PLC interface)

The obvious choice for automation of conveying plants demanding a short linear movement - available for PLC. A good alternative to solutions based on air and gear motors.

LA12



Actuator programme

All steel parts are made of stainless steel

STRONG AND QUICK

- Max thrust up to 6,000 N
- Max speed up to 65 mm/sec
- Standard stroke length 100-600 mm
- Elegant and compact design, very easy to clean
- 12 or 24 V DC magnet motor
- Protection class IP 51 or IP 66

LA28



LIGHT AND FLEXIBLE

- Max thrust up to 3,500 N
- Max speed 46 mm/sec
- Standard stroke length 100-600 mm
- High-strength plastic housing protects motor and gear
- Elegant and compact design, very easy to clean
- Voltage 12 or 24 V DC
- Protection class IP 51 or IP 66

LA32

Powerful actuator, which is available with a ball screw to optimise performance. Possibility of many special options. Small installation dimensions and easy to clean



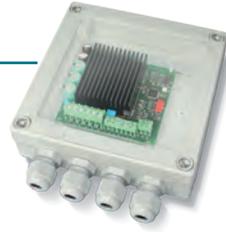
Primarily a system actuator that fits a broad selection of industrial applications. The actuator is noiseless and it has small built-in dimensions.



Accessories

DOUBLE CONTROL

- 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



Parallel controller

COMPLETE CONTROL

- Variable voltage supply 12-36 V DC
- Overload protection
- adjustable current limit 1-20 A
- Soft start/stop individually adjustable
- 3 variants for various applications
- Integrated brake

EASY OPERATION

- Can be applied for actuators with limit switches
- Easy operation of actuators without use of further electronics
- IP 66 for outdoor use
- Easy to install
- Tested with a fully loaded LA36 12V DC for 50,000 activations



Rocker switch

PCB



Broad product range – for all demands

LINAKs stainless TECHLINE® products are designed to function under harsh conditions. This makes us the ideal partner for machine manufacturers within the stainless steel 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 - the products endure large temperature changes in demanding production environments
- 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.

Other possibilities with stainless steel actuators



The actuator is mounted with inner and outer tubes of stainless steel – AISI 304



Piston rod eye of stainless steel – AISI 304



Back fixture of stainless steel - AISI 304



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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