

TECHLINE®
Product overview

LINAK®
WE IMPROVE YOUR LIFE

Bring movement to life

When industries change at unprecedented speed, we don't help you catch up — we help you stay ahead.

Not just by advancing how technology can improve people's lives through our range of electric actuators, but by putting your ideas, your creativity, and your goals at the center of everything we do.

In turn, we bring speed, confidence, and clarity to every stage of your innovation. Just as we provide control and precision to any linear movement you bring to life.

Smarter. Leaner. Cleaner.

About our actuators

Our broad portfolio gives you the freedom to choose the linear actuator that fits your machine — from compact models to heavy-duty options, with the flexibility to prioritize either high speed or high force.

Each actuator is thoughtfully engineered and proven in diverse applications worldwide, giving you peace of mind — knowing you are backed by technology that is already trusted by others.

Easy to integrate and built for durability, our actuators are designed to meet the demands of industrial environments where reliability and performance are essential.

Technical Data

Model		Load (up to)	Stroke length	Voltage
LA77		15,000 N	75-1000 mm	24 or 48 V DC
LA76		6,800 N	75-1200 mm	24 or 48 V DC
LA37		15,000 N	50-1000 mm	12, 24 or 48 V DC
LA36		6,800 N	50-1200 mm	12, 24 or 48 V DC
LA33		5,000 N	50-1000 mm	12, 24 or 48 V DC
LA21		3,500 N	50-800 mm	12, 24 or 48 V DC
LA25		2,500 N	20-600 mm	12 or 24 V DC
LA14		750 N	20-130 mm	12 or 24 V DC

Communication options:

I/O · DeviceNet · EtherNet/IP · Modbus TCP/IP · CANJ1939 · CANopen · LIN · PLUS+1 · IO-Link · Modbus RTU

Did you know?

All communication options support running up to 8 actuators in parallel for synchronized performance.

Actuators





Actuator	LA77	LA76
Load	Up to 15,000 N	Up to 6,800 N
Speed	Up to 7 mm/s	Up to 142 mm/s
Stroke length	75-1000 mm	75-1200 mm
Voltage	24 or 48 V DC	24 or 48 V DC
Duty cycle	10 %	20 %
Ambient operating temperature	-30°C to + 85°C	-30°C to + 85°C
IP rating	IP66 dynamic and IP69K static	IP66 dynamic and IP69K static
Important facts	· Brushless DC motor for extended life · Heavy-duty reinforced aluminum housing and solid metal construction · Designed for outdoor use · Many customization options (stroke length, built-in dimensions etc.) · Exchangeable cables in different lengths	· Brushless DC motor for extended life · Heavy-duty reinforced aluminum housing and solid metal construction · Designed for outdoor use · Many customization options (stroke length, built-in dimensions etc.) · Exchangeable cables in different lengths

Communication options:

I/O · PROFINET · EtherNet/IP · Modbus TCP/IP · CAN J1939 · CANopen · LIN · PLUS+1 · IO-Link · Modbus RTU

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Actuators





Actuator	LA37	LA36
Load	Up to 15,000 N	Up to 6,800 N
Speed	Up to 11 mm/s	Up to 160 mm/s
Stroke length	50-1000 mm	50-1200 mm
Voltage	12, 24 or 48 V DC	12, 24 or 48 V DC
Duty cycle	10 %	20 %
Ambient operating temperature	-30°C to + 85°C	-30°C to + 85°C
IP rating	IP66 dynamic and IP69K static	IP66 dynamic and IP69K static
Important facts	· Variant tailored for off-highway machinery · Heavy-duty reinforced aluminum housing and solid metal construction · Designed for outdoor use · Many customization options (stroke length, built-in dimensions etc.) · Exchangeable cables in different lengths	· Variant tailored for off-highway machinery · Heavy-duty aluminum housing and solid metal construction · Designed for outdoor use · Many customization options (stroke length, built-in dimensions etc.) · Exchangeable cables in different lengths

Communication options:

I/O, DeviceNet, EtherNet/IP, Modbus TCP/IP, CAN J1939, CANopen, LIN, PLUS+1, IO-Link, Modbus RTU

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Explore all actuators



Actuators





Actuator	LA33	LA21
Load	Up to 5,000 N	Up to 3,500 N
Speed	Up to 70 mm/s	Up to 85 mm/s
Stroke length	50-1000 mm	50-800 mm
Voltage	12, 24 or 48 V DC	12, 24 or 48 V DC
Duty cycle	20 %	20 %
Ambient operating temperature	-40°C to +85°C	-40°C to +85°C
IP rating	IP66 dynamic and IP69K static	IP66 dynamic and IP69K static
Important facts	· Gear options: Standard, increased speed or low noise · Heavy-duty aluminum housing and solid metal construction · Designed for outdoor use · Many customization options (stroke length, built-in dimensions etc.) · Exchangeable cables in different lengths	· Heavy-duty aluminum housing and solid metal construction · Designed for outdoor use · Many customization options (stroke length, built-in dimensions etc.) · Exchangeable cables in different lengths

Communication options:

I/O DeviceNet EtherNet/IP Modbus TCP/IP CAN J1939 CANopen LIN PLUS+1 IO-Link Modbus RTU

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Explore all
actuators

Actuators





Actuator	LA25	LA14
Load	Up to 2,500 N	Up to 750 N
Speed	Up to 25 mm/s	Up to 45 mm/s
Stroke length	20-600 mm	20-130 mm
Voltage	12 or 24 V DC	12 or 24 V DC
Duty cycle	20 %	20 %
Ambient operating temperature	-40°C to +85°C	-40°C to +85°C
IP rating	IP66 dynamic and IP69K static	IP66 dynamic and IP69K static
Important facts	· Heavy duty aluminum housing and solid metal construction · Designed for outdoor use · Many customization options (stroke length, built-in dimensions etc.) · Exchangeable cables in different lengths	· Designed for outdoor use · Compact design · Tested inside and out to the extreme in a wide range of tests · Many customization options (stroke length, built-in dimensions etc.) · Exchangeable cables in different lengths

Communication options:

I/O, PROFINET, EtherNet/IP, Modbus TCP/IP, CANJ1939, CANopen, LIN, PLUS+1, IO-Link, Modbus RTU

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LINAK
WE IMPROVE YOUR LIFE

About our lifting columns

Our industrial lifting columns integrate heavy lifting into manual or automated systems with ease. The LC3 IC offers flexible, industry-wide compatibility through multiple interfaces and delivers reliable, intelligent performance. For height-adjustable workstations, our column kits simplify setup with all necessary components included.

Technical Data

Model		Load per column	Speed	Important facts
LC3 IC		Up to 6,000 N (push and pull)	Up to 100 mm/s	· Ready-to-use lifting column · Supports a variety of interfaces · Parallel running of more columns
ELEVATE™ kit		Up to 1,000 N (push and pull)	Up to 100 mm/s	· 7th axis for cobots · All-in-one package · Ideal for palletizing
DL2 Column kit		Up to 1,500 N (push only)	Up to 15 mm/s	· 1-4 columns · Loads up to 600 kg · Robust and versatile
LC1 Column kit		Up to 4,000 N (push only)	Up to 18 mm/s	· 1-4 columns · Load up to 1,600 kg · Powerful and long stroke
BL1 Column kit		Up to 2,000 N (push only)	Up to 18 mm/s	· 1-4 columns · Loads up to 800 kg · Waterproof
LC3 Column kit		Up to 6,000 N (push) Up to 4,000 N (pull)	Up to 18 mm/s	· 1-4 columns · Loads up to 2,400 kg · Waterproof

Explore all industry lifting columns


Learn more
about
ELEVATE™

Lifting columns





Lifting columns	LC3 IC	ELEVATE™
Load	Up to 6,000 N (push and pull)	Up to 1,000 N (push and pull)
Speed	Up to 100 mm/s	Up to 100 mm/s
Stroke length	200 - 1100 mm	900 or 1100 mm
Voltage	24 or 48 V DC	24 V DC
Bending moment	Static: 3,000 Nm / Dynamic: 1,400 N	Static: 3,000 Nm / Dynamic: 1,400 N
Duty cycle	20 %	20 %
Ambient temperature	+5°C to +40°C (operation)	+5°C to +40°C (operation)
IP rating	Up to IP44	IP4X
Important facts	Speed up your development with these benefits: · High performance in a compact size · Flexible mounting in both vertical directions · Many customization options · Brushless DC motor for smooth movement and long service life · Status LED and diagnostics for easy troubleshooting	· Ethernet Modbus TCP/IP · Designed for cobot palletizing · Choose between a complete kit with mounting plates or cable kit only · Hardware compatible with many different cobot brands · Ready to integrate with Universal Robot, Omron/TECHMAN and Kassow

Communication options for LC3 IC:

I/O, DeviceNet, EtherNet/IP, Modbus TCP/IP, CAN J1939, CANopen, LIN, PLUS+1, IO-Link, Modbus RTU

Did you know?

All communication options support running up to 8 actuators in parallel for synchronized performance.



ESCAD Automation GmbH

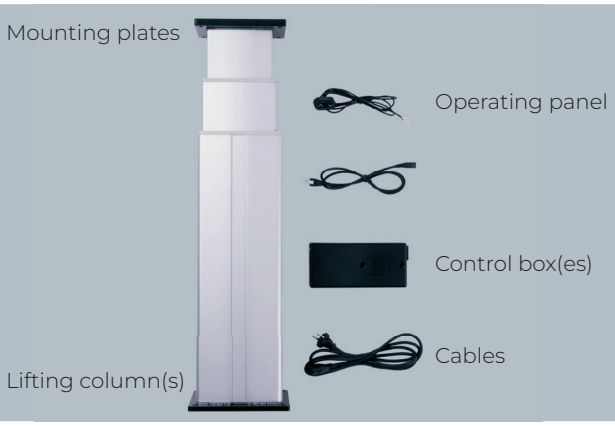
Lifting columns





Lifting columns	DL2 COLUMN KIT	LC1 COLUMN KIT
Load per column	Up to 1,500 kg (push only)	Up to 4,000 kg (push only)
Speed	Up to 15 mm/s	Up to 18 mm/s
Stroke length	650 mm	650 mm
Voltage	100 - 240 V (universal)	100 - 240 V (universal)
Installation dimension	655 mm (fully retracted incl. mounting plates)	584 mm (fully retracted incl. mounting plates)
Bending moment	Static: 250 Nm/ Dynamic: 200 Nm	Dynamic: 250 Nm
Duty cycle	10 %	10 %
Ambient temperature	+5°C to +40°C (operation)	+10°C to +40°C (operation)
Important facts	· End plates offer easy installation · 3D models available on our website · 1-4 columns · Loads up to 600 kg · Robust and versatile · Grooves for attachments	· End plates offer easy installation · 3D models available on our website · 1-4 columns · Load up to 1,600 kg · Powerful and long stroke · Grooves for attachments

What's included a in a kit?



Everything you need for a Plug & Play™ lifting solution

Learn more about column kits



Lifting columns





Lifting columns	BL1 COLUMN KIT	LC3 COLUMN KIT
Load per column	Up to 2,000 N (push only)	Up to 6,000 N (push) Up to 4,000 N (pull)
Speed	Up to 18 mm/s	Up to 18 mm/s
Stroke length	400 mm	700 mm
Voltage	230 V	230 V
Installation dimension	372 mm (fully retracted incl. mounting plates)	610 mm (fully retracted incl. mounting plates)
Bending moment	Static: 500 Nm / Dynamic: 250 Nm	Static: 3,000 Nm / Dynamic: 1,400 Nm
Duty cycle	10 %	10%
Ambient temperature	+5°C to +40°C (operation)	+5°C to +40°C (operation)
IP rating	IPX6	IPX6
Important facts	· End plates offer easy installation · 3D models available on our website	· End plates offer easy installation · 3D models available on our website

Learn more about column kits

IC™ - move smarter

Our actuators and lifting columns with Integrated Controller (IC) simplify installation and increase productivity by reducing external components and removing the need for third-party power electronics.

The IC offers versatile communication options, making integration seamless across applications.

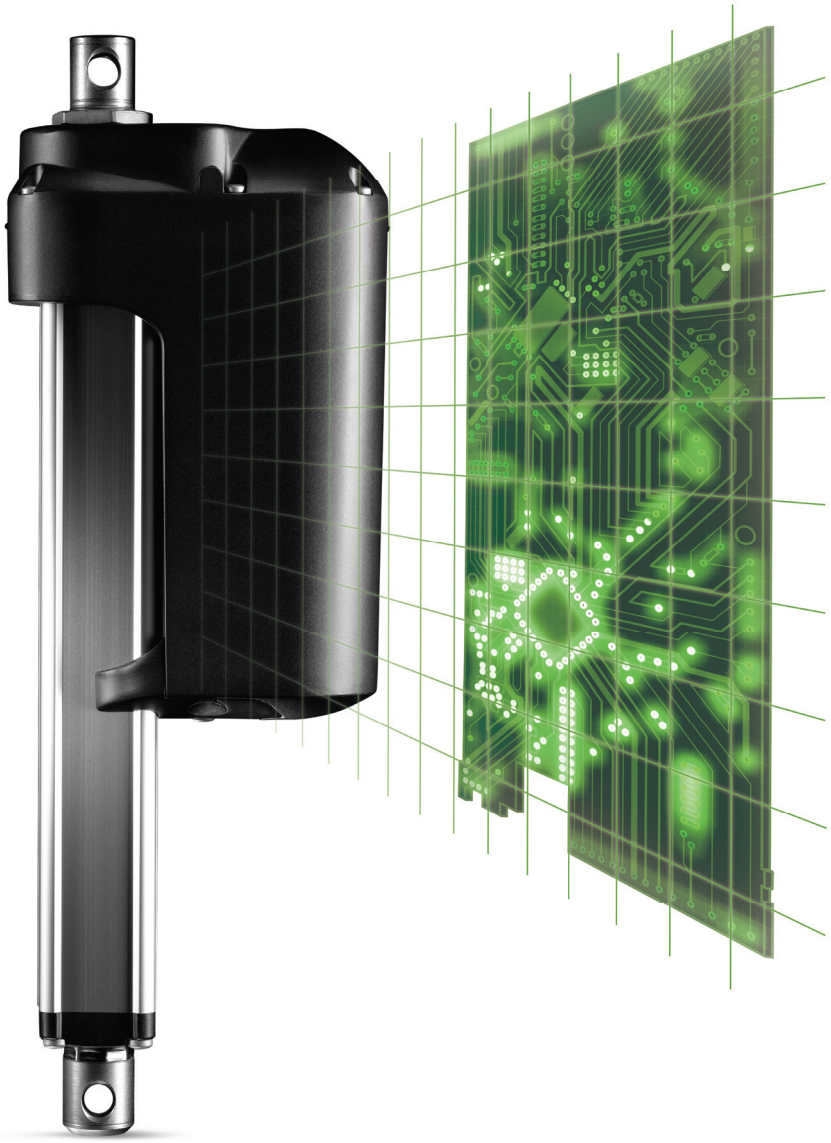
You'll get instant access to built-in features like real-time data, customizable movement settings, diagnostics, and parallel setup.

Our solutions deliver more than expected—why not explore what they can do for you?

- **Speed up your R&D processes**
- **Enjoy easy integration**
- **Boost productivity**

Learn more about IC

Learn more about interfaces



Communication options

I/O

The flexible LINAK® I/O™ interface enables a range of movements and choice of input control and data outputs. It offers endless modifications for full control of the exact functionalities you need and lets you move swiftly from innovation to action.

CANopen

CANopen® is a communications protocol that relies on the CiA 301 standard and is one of the main network architectures used in industries such as Railway, Agri-culture, Heavy Truck & Bus, Marine, Off-Highway and Factory Automation.

IO-Link

IO-Link® is a point-to-point industrial network standard used to connect digital sensors and actuators to an industrial Fieldbus or Ethernet. IO-Link increases efficiency and reduces downtime in e.g. industrial automation and packaging machinery.

CAN J1939

CAN SAE J1939® is a set of standards defining how ECUs (Electronic Control Unit) communicate via CAN – offering a common language for all manufacturers. The protocol is widely used in mobile off-highway machinery as it supports smart automation.

PLUS+1

PLUS+1® is a development tool where engineers can add, move, drag and drop components when designing modern heavy-duty machinery. A software extension makes it possible to add LINAK® actuators to the platform as easy as drag and drop.

EtherNet/IP™

EtherNet/IP™ is a network protocol that allows industrial devices, including actuators, to communicate over Ethernet. It supports real-time control and data exchange, making it ideal for applications like automated manufacturing, robotic systems, and process control.

lin

LIN bus is a cost-effective supplement to CAN bus. The overall performance and reliability of the network is lower compared to CAN bus, but the protocol is very suitable for non-critical components.

Modbus Modbus RTU

Modbus® RTU is a serial communications protocol used for industrial electronic devices, which is often connected to a PLC. Using Modbus® RTU makes it easy to integrate and maintain many devices on the same network. Actuators with Modbus® RTU can e.g. be used for industrial automation and solar tracking.

Modbus Modbus TCP/IP

Modbus® TCP/IP is a protocol that enables industrial devices, such as actuators, to connect over Ethernet. It simplifies integration and maintenance of devices on the same network, suitable for applications like HVAC systems, energy management, and factory automation.

PROFINET®

Profinet is an open industrial Ethernet standard. This Ethernet interface connects devices, systems, and cells which facilitates manufacturing by increasing quality, speed and safety. Profinet easily integrates with existing systems and equipment, bringing the capabilities of Ethernet to the factory floor. This communication protocol acts as an essential tool within the automation industry, enabling real-time data exchange between controllers and devices, allowing for seamless communication across various devices.

Actuator Connect™
Configurator



Configure, prototype, and troubleshoot faster - **one tool** for all of our communication options.

Faster commissioning
- test and fine-tune in minutes

Plug & Play configuration
- no coding required

Explore capabilities with demo mode
- without an actuator

From R&D labs to production floors and after-sales support, Actuator Connect helps teams move from concept to delivery in record time, real-time and historical usage data.

Try it yourself, scan the code to get a free version



Explore the technology behind actuators

At the Actuator Academy™, you will find a library of videos and information about actuator components, actuator testing, and intelligent actuator control.

Find out what to expect of a good industrial actuator, what affects its performance and efficiency, and how to best utilize your electric linear actuator.

We hope to inspire you and ultimately make you curious about the moving electric revolution that we are all a part of.

Happy exploring!

Actuator Academy™



Check out the Actuator Academy


LINAK
Designed in Denmark
Push 2600 N / Pull 2600 N IP66
MADE IN DENMARK
Learn how we test

Testing program

In industrial applications, actuators and lifting columns are just one part of a larger system. Regardless of the task, smooth and reliable linear movement is essential. That's why every actuator undergoes a thorough function test before leaving our factory.

Our electric actuators are built for tough conditions and tested extensively before market release. Lifting columns, however, are not designed for harsh environments and follow a different testing approach.

The example below shows our actuator testing program. For details on specific products, please refer to the user manuals or contact your local LINAK® office.



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 a dunk test, the actuators have to withstand repeating temperature fluctuations between +85°C to -40°C while maintaining its full functionality and ingress protection.

EN60529-IP6X: dust
EN60529-IPX6: water
ISO16750- IP69K: high-pressure cleaning
IEC60068-2-3: moisture storage
IEC60068-2-30: operation in moisture
ISO16750-4:2010: dunk test
EN60068-2-52: salt spray
BS7691 Section 6.11.2.4: chemicals



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 50 G in each of six directions.
Bump: The actuator receives bumps of up to 30 G in each of six directions several hundred times.

EN60068-2-64 (Fh): random vibration
EN60068-2-27 (Ea): shock
EN60068-2-29 (Eb): bump



Electrical tests:
All electrical parts are tested i.e. power supply, power and signal 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

For further information about TECHLINE:
LINAK-US.COM/SEGMENTS/TECHLINE/

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QUALITY

Built by market leading experts, using state-of-the-art technologies and perfected production methods, you can expect the same quality worldwide.

INNOVATION

Innovation is in our core. We take the lead and have the courage to make it real.

RESPONSIBILITY

We are responsible in what we do – towards customers, employees and environment. Creating trust is a natural part of who we are.

LOCAL & GLOBAL

From global presence to local understanding. We believe in worldwide support and being close to our customers.

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