



## Actuator systems for couches & tables

Power, speed, and comfort - all in one solution



# Modern treatment couches rely on fast, smooth, and powerful adjustment

For healthcare practitioners adjustable treatment couches and tables need to provide quick and precise positioning and smooth, low-noise movement – and that, regardless of size, height or build of the patient. To achieve and sustain such high performance every day, year after year, puts tremendous demands on all parts of the adjustment system. At LINAK, extensive and rigorous testing goes hand in hand with a focused eye on design and environment as well as a keen ear to the customers. Quality and trust is encompassed and must remain until the patient leaves the couch. Costly downtime is not acceptable.

## Optimal performance with power management

Using the new LINAK control box platform (e.g. CA30, CO61, CO65 or CO71) optimises the balance between power and speed in systems with LINAK actuators. This means you can operate heavier loads when needed or utilise the power to run your application at a higher speed.

We call that power management.

## Tried and tested to perfection

Extensive testing of our products and systems has been a cornerstone at LINAK for more than three decades. No LINAK product goes to market without thorough testing. For example, the linear actuator LA40 HP or the new OpenBus™ control boxes. Both are often used in combination with a footswitch FS3 and sometimes also a Li-Ion battery in treatment couches. At LINAK, they are all tested together – as a system – ensuring you durable and reliable adjustment of your treatment couch. In addition, the high degree of production automation at LINAK provides consistent and high quality in every detail.

## Broad product range provides countless options

LINAK has one of the broadest possible product ranges on the market. This enables manufacturers of healthcare applications to put together the adjustment system that fits their exact requirements. Whether you need a standard analogue solution with two actuators or you want an advanced system with complex movement patterns and position memory, the LINAK product range covers it.

*“Manufacturers of couches and tables in healthcare should never have to worry one second about quality, uptime, or overall performance of an actuator system. Our job is to ensure this and allow the manufacturer to offer a fast, firm, and efficient lift without compromising user comfort or low noise levels.”*

- Claus Rode, Product Manager, LINAK

LINAK offers service  
worldwide

Please contact your local LINAK office with  
your enquiry



# Powerful and reliable like no other

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Power and reliability are required to ensure continuous patient comfort and general safety when using a couch or a table. For the practitioner it is important to achieve the optimal work position quickly – also when loads are heavy. At the same time the patient must enjoy a sound feeling of safety and comfort with smooth, low-noise, and gentle movement.

## The linear actuator series

The LA40 HP is a powerful actuator designed for treatment couches and tables. It can deliver a 400 mm push of 8,000 N at full stroke. This strong actuator, pushing up to 9 mm/s, serves a smooth movement increasing comfort for the user.

Other LINAK actuators, like the LA20, are ideal where space is limited, but a firm push is necessary. Used to adjust the headrest of a treatment couch or table, the practitioner can optimise positioning of the patient even more, while the patient enjoys a high degree of comfort.

## The control box series

Whether you chose an analogue actuator solution or an advanced OpenBus™ solution, LINAK has the optimal system. Our control boxes CA30 and CA40 ensure optimal power distribution and perfect movement patterns, whereas CO41, CO61, CO65 and CO71 add a brain to the system. Using OpenBus™ control boxes you can have several intelligent safety features, full position feedback, and load information to ensure safe use and flawless performance.

## The battery series

New LINAK batteries, developed to match the control box platform, are designed to cover cables in order to improve cleanability and overall hygiene. LINAK offers both a traditional lead acid battery as well as a high-performance Li-ion battery. This gives you a light-weight solution ideal for applications required to operate off the grid for extended periods. The Li-ion battery is considered the eco-friendly solution.

## The control series

Modern treatment couches are usually controlled using either a hand control or a footswitch. Whether you chose a LINAK hand control HB80 or the footswitch FS3 you get a reliable solution that optimises ergonomics through an intuitive and user-friendly interface.

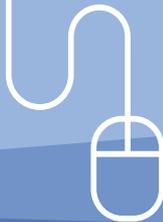
## LINAK SDT - a Service Data Tool

SDT is an optional accessory you can add to your actuator system. It enables you to read status/service data from your system about wear and tear or how many cycles are left on your battery. We call this preventive maintenance.





Go to our website for more information about our products for couches and tables.



# Products for couches and tables

## Linear actuators



### LA40

- Max thrust: 8,000 N
- Max speed: 16.0 mm/s
- High performance



### LA40 HP

- Max thrust: 8,000 N
- Max speed: 9.5 mm/s
- 6.5 mm/s at 8,000 N load



### LA23

- Max thrust: 2,500 N
- Max speed: 22.0 mm/s
- Compact design



### LA20

- Max thrust: 2,500 N
- Max speed: 8.9 mm/s
- Inline actuator

## Column



### BL1

- Max thrust: 2,000 N
- Max speed: 18.0 mm/s
- Short installation dimension and long stroke length

## Control boxes



### C041

- 4-channel OpenBus™ control box
- 120 W effective Switch Mode Power Supply (SMPS)
- IPX6 Washable DURA™



### C061

- 4-channel OpenBus™ control box
- 200 W effective Switch Mode Power Supply (SMPS)
- IPX6 Washable DURA™



### C065

- 4-channel OpenBus™ control box
- Powerful 280 W effective Switch Mode Power Supply (SMPS)
- IPX6 Washable DURA™



### C071

- 4-channel OpenBus™ control box with Bluetooth®
- Powerful 350 W effective Switch Mode Power Supply (SMPS)
- IPX6 Washable DURA™



### CA30/CA40

- Analogue, 2-4 channels
- 120 W effective Switch Mode Power Supply (SMPS)
- IPX6 Washable DURA™

# Products for couches and tables

## Hand controls



### HB30

- OpenBus™ and analogue
- Up to 8 buttons
- LEDs



### HB80

- Ergonomic design
- Standard IPX4
- Optional IPX6 Washable DURA™

## Control



### FS3

- Available as a floor model or bed model
- Intuitive - easy to use
- Expandable modules

## Accessories



### Service Data Tool for IC Actuators

- For healthcare applications
- LA43/LA44 IC service data
- Easy read-out



### Service Data Tool for COXX

- For healthcare applications
- Service data from COXX and BA21
- Simple service report and data read-out

## Accessories



### BA21

- Li-Ion battery
- 2.25 Ah capacity
- Extended lifetime



### ACL

- Attendant Control Lock
- Disconnects all functions on the handset
- Approved according to EN60601-1



### MJB Gateway

- Designed for use together with OpenBus™ control boxes
- Possible to connect multiple handsets, attendant controls or 3<sup>rd</sup> party products



### SLS

- Can be mounted in connection with the 24V DC actuators and a control box on e.g. a bed frame

## Li-Ion batteries - extended lifetime

- savings up to 40% compared to lead acid
- 4 times more battery lifetime compared to lead acid
- low environmental impact
- high performance
- low weight
- less waste

# Trust your adjustment system

For practitioners in healthcare, LINAK provides simplicity and a clean design in treatment couches and tables. With a surplus of power and a careful precision in control and movement, practitioners as well as patients can trust the application to perform flawlessly every day with no or very little downtime. Quick and smooth movement of the couch means a high degree of comfort, and the LINAK design and cable management ensures that the overall application design remains uncompromised.

Using an ergonomic footswitch FS3 also allows the practitioner to keep both hands free throughout the treatment. A Li-Ion battery solution makes it easy for the practitioner to operate the application off the grid and minimise the risk of falling over cables. With LINAK PVC-Free cables users can enjoy an 'eco-friendly' solution too.

All things combined is what to expect of modern electric actuator systems. LINAK actuator systems for treatment couches and tables come with several safety features. Especially the LINAK OpenBus™ systems offer quite a few safety enhancing functions, such as:

- end-stop
- safety nut
- ratchet spline
- overload warning
- low-on-battery warning

Practitioners are expected to continuously increase efficiency. LINAK strives to accommodate carers in numerous ways:

- all LINAK hand controls have intuitive interfaces with ergonomic anti-slip surfaces
- batteries are made quick and easy to exchange and recharge
- cables are cleverly managed to avoid accidents and prevent reduced performance
- optional Service Data Tools help plan maintenance ahead



## Did you know?

- Almost half of the adult population in OECD1 countries are either overweight or obese
- 38.2 % of US-citizens above the age of 15 are obese. In Japan this figure is just 3.7 %
- Specialist physicians in the USA receive 2,700 patients on average every year
- In Europe, Greece is the country with the most healthcare practitioners. 632 pr. 100,000 citizens. In neighbouring Albania, the number is just 128.

1) OECD, "Obesity Update 2017"

2) Statista.com - [www.statista.com/topics/1244/physicians/](http://www.statista.com/topics/1244/physicians/)

3) EU Eurostat – "Statistics explained"

# Resting on the pillars of the LINAK values

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The decades of experience, the broad product range, the consistent high quality due to automated production and extensive testing, and our global presence combined with extensive local market insights are your shortcuts to achieve full compliance in your market.

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



Built on state-of-the-art technologies and refined processes by competent people, you can expect the same quality worldwide.



Innovation is in our core. We have the curiosity to think innovatively and the power to make it real on all levels.



We are responsible in what we do – towards customers, employees and environment. Creating trust and taking care is in our DNA.



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

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