Product Overview
Facing the healthcare challenges of tomorrow.

With more patients in need of care, but fewer hands to provide it, there’s an urgent demand for intelligent solutions that improve the comfort and safety of the patient and enable efficient workflows for clinicians. At LINAK®, we believe we must Care for Tomorrow Today™ to fulfill these demands.

The world requires advanced ergonomic solutions that will make a valuable difference in the healthcare industry. To meet these needs LINAK believes in planning for what is ahead. We encourage you to take your vital products like nursing home beds, wheelchairs, patient lifts and examination tables to the next level by integrating our Intelligent Care Solutions™.
Our products are developed to improve lives and with your needs in mind. Whether you need a linear actuator solution to provide you with basic movement or advanced built-in intelligence to make your care solutions one step above the rest, LINAK has a product to meet your needs. The best part: you can evolve with LINAK at your own pace. Equip our systems with value-adding features, including sensor systems and intelligent communication. We recognize that requirements change and demographic demand will grow and know how important it is to have a partner who supports you at every turn.

LINAK is dedicated to improving:

- Ergonomics
- Comfort
- Efficiency
- Safety
A dedication to excellence.

Equipment breakdowns are expensive and inconvenient. To avoid such failures, LINAK products undergo a 100% function test before leaving our facility. To provide technically advanced solutions that give you a strategic market advantage, all newly developed products are tested thoroughly.

Actuator solutions used in medical environments must be able to withstand regular handling and stress. Daily use under different conditions and the worldwide trend of obesity are just a few of the demands. To meet these challenges, we have developed a comprehensive testing program.

LINAK believes in taking a dynamic and proactive approach to testing. International market standards are becoming more stringent and we face these challenges by formulating our own testing procedures and equipment. This gives us the ability to meet new demands and provide our customers with reliable and modern solutions.

Learn more about how LINAK is dedicated to being the right partner for you.
LINAK.US/PARTNER
The application expertise you deserve.

Working with LINAK builds more than 30 years of knowledge into your solutions. We pride ourselves on helping you Care for Tomorrow Today™ in your area of expertise.

MEDICAL BEDS
There are more beds in a hospital than doctors and nurses combined. LINAK Intelligent Care Solutions offer a variety of opportunities for innovative thinking. By reducing time-consuming tasks, we can set clinicians up for success.

TABLES
Back pain and injuries are common health problems among clinicians. That makes improved ergonomics and flexible electric adjustment of treatment and examination tables a critical focus area.

TREATMENT CHAIRS
Patients often spend long spans of time in treatment chairs. We believe it is important to build in more value adding features to improve their experience, as well as the clinicians.

PATIENT LIFTS
The healthcare industry continues to institute higher safety requirements for both patients and clinicians and our goal is to exceed them. LINAK prides itself on our reputation of reliability, safety and a drive to set industry standards even higher.

WHEELCHAIRS
Reliability and comfort are equally important in wheelchair design. Electric actuators must be strong, small, quiet and energy efficient to provide smooth and accurate adjustments.
Electric actuators

To ensure we are continuing to develop innovative system solutions, LINAK works in close collaboration with our customers when developing products. Our products are designed to meet the rigorous requirements of international medical safety standards.
## Specifications

<table>
<thead>
<tr>
<th>ACTUATOR</th>
<th>THRUST (UP TO)</th>
<th>STROKE (UP TO)</th>
<th>SPEED</th>
<th>INSTALL DIM (Min)</th>
<th>POSITION FEEDBACK</th>
<th>SAFETY FEATURES</th>
</tr>
</thead>
<tbody>
<tr>
<td>LA20</td>
<td>Push: 2500N</td>
<td>20–300mm</td>
<td>8.9mm/s</td>
<td>220mm</td>
<td>Dual Hall Hall potentiometer. Build in limit switches</td>
<td>Safety nut in pull.</td>
</tr>
<tr>
<td></td>
<td>Pull: 900N</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>LA23</td>
<td>Push: 2500N</td>
<td>20–300mm</td>
<td>21.8mm/s</td>
<td>160mm</td>
<td>Hall Hall potentiometer Built-in limit switches</td>
<td>Exchangeable cable connection, Available with Intelligent Control Safety nut in push or pull</td>
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<tr>
<td></td>
<td>Pull: 2500N</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>LA28</td>
<td>Push: 3500N</td>
<td>100–600mm</td>
<td>45.9mm/s</td>
<td>260mm</td>
<td>Reed switch</td>
<td>Safety nut in push</td>
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<tr>
<td>LA28C</td>
<td>Push: 3500N</td>
<td>100–600mm</td>
<td>45.9mm/s</td>
<td>256mm</td>
<td>Reed switch</td>
<td>Safety nut in push</td>
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</tr>
<tr>
<td>LA30</td>
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<td>65mm/s</td>
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<td>Reed switch Potentiometer</td>
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<td>32.6mm/s</td>
<td>223mm</td>
<td>Hall Reed switch</td>
<td>Available with quick release and manual lowering. Safety nut in push</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LA32</td>
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<td>13.8mm/s</td>
<td>273mm</td>
<td>Potentiometer Reed switch</td>
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<td>LA27</td>
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<td>50–405mm</td>
<td>13.0mm/s</td>
<td>220mm</td>
<td>Hall</td>
<td>Exchangeable cable connection. Available with hand crank and quick release</td>
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<tr>
<td></td>
<td>Pull: 4000N</td>
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</tr>
<tr>
<td>LA34</td>
<td>Push: 10000N</td>
<td>100–600mm</td>
<td>18.0mm/s</td>
<td>310mm</td>
<td>Built-in limit switches</td>
<td>Safety nut in push. Available with quick release.</td>
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<tr>
<td></td>
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<tr>
<td>LA40</td>
<td>Push: 8000N</td>
<td>50–405mm</td>
<td>16.3mm/s</td>
<td>220mm</td>
<td>Hall, Built-in limit switches</td>
<td>Safety nut in push</td>
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<tr>
<td>LA44</td>
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<td>100–400mm</td>
<td>14.0mm/s</td>
<td>310mm</td>
<td>Hall Potentiometer Built in limit switches</td>
<td>Exchangeable cable connection. Available with manual lowering and Intelligent Control. Safety nut in push</td>
</tr>
</tbody>
</table>

For additional product specs, visit [LINAK.US/SPECS](http://LINAK.US/SPECS)
Electric columns

Specifications

<table>
<thead>
<tr>
<th>ACTUATOR:</th>
<th>THRUST (UP TO):</th>
<th>STROKE:</th>
<th>SPEED (UP TO):</th>
<th>INSTALL DIM:</th>
<th>POSITION FEEDBACK:</th>
<th>SAFETY FEATURES:</th>
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<tbody>
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<td>18.0mm/s</td>
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</table>
Battery powered systems for mobile equipment

All of LINAK’s modular control systems for mobile devices and patient lifts feature emergency stop, soft stop and emergency lowering.

**CBJ HOME**
- Cost effective portable control
- Built-in battery
- Connection of up to 2 actuators

**CBJ1 / CBJ2**
- High-feature portable control box
- Detachable battery
- Connection of up to 2 actuators
- Available 2 speed operation
- Internal or external charger
- Available maximum weight adjustment

**CBJ CARE:**
- Connection of up to 3 actuators
- Service monitoring
- Available redundant controls
- Available with LEDs or display for indicating battery life and required maintenance

**BAJ1**
- Lead Acid Battery
- Easy to exchange
- Customizable front cover
- Protection class IPX5 (when mounted vertically)

**BAJL**
- Lithium Ion Battery
- Extended battery life
- Light weight (1.5 kg)
- Backwards compatible
- Available in 2x capacity

Pair these ACCESSORIES with LINAK controls systems:

**CH01**
- Charger allows interchangeability between plug types with a single “slide on” operation

**MBJ**
- Mounting brackets for the mobile systems

**CHJ2**
- Wall-charger for exchangeable battery

**COBO**
- For use with the BAJ1 or BAJL batteries and CU
- Enables connection of a large capacity battery to a complex multi-actuator system
## Control boxes

![Control Box Actuators/Channels](image1)

- CA30
- CA40
- CO41
- CO61
- CO71
- CB6
- CB6 OBMe
- PJ2

## Specifications

<table>
<thead>
<tr>
<th>Control Box</th>
<th>Actuators/Channels</th>
<th>Customizable software available</th>
<th>Simultaneous, Independent channels</th>
<th>Service Monitoring</th>
<th>LED Indicator</th>
<th>SMPS Green Technology</th>
<th>Flexible Mounting/Cable Mgmt</th>
<th>CO-Link and PJ2 Compatible</th>
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<td>–</td>
<td>✔️</td>
<td>120W</td>
<td>✔️</td>
<td>–</td>
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<td>–</td>
<td>2</td>
<td>–</td>
<td>✔️</td>
<td>120W</td>
<td>✔️</td>
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<td>–</td>
<td>2</td>
<td>–</td>
<td>✔️</td>
<td>120W</td>
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<tr>
<td>OpenBus™</td>
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<td>✔️</td>
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<td>2</td>
<td>✔️</td>
<td>✔️</td>
<td>200W</td>
<td>✔️</td>
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<td>350W</td>
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<td>CB6 OBMe</td>
<td>4</td>
<td>✔️</td>
<td>2</td>
<td>✔️</td>
<td>–</td>
<td>270W</td>
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<td>CB6 OBF</td>
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<td>✔️</td>
<td>2</td>
<td>✔️</td>
<td>–</td>
<td>–</td>
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</tbody>
</table>
WHAT IS SMPS?
LINAK linear actuator solutions with Switch Mode Power Supply technology feature low standby power while offering more output power and efficiency than traditional transformers.

ADVANTAGES OF SMPS:
- Environmentally friendly with low standby power consumption
- High efficiency and power supporting constant actuator speed
- Not sensitive to DC from wall outlet power
- Universal supply (100-240 VAC)
- Reduced weight and compact product for easy design into the application

WHAT IS CO-LINK™?
CO-Link allows you to double the number of channels in your actuator system, using the LINAK products already available.

ADVANTAGES OF CO-LINK:
- Up to eight channels and twice the power
- Simple set-up with cables and customized software
- Easy logistics using products you already have
- PJ2 allows extension of OpenBus CO41, CO61 and CO71 control boxes.

WHAT IS OPENBUS™?
LINAK OpenBus is a microprocessor-based control platform which uses digital signals to provide increased safety and control over standard analog systems.

ADVANTAGES OF OPENBUS™:
- OpenBus compatible accessories and controls can be easily added at any time without hardware changes
- Increased safety – First failure safe from unintended movement
- Many ways to customize a system to enable complex movement
- Low voltage power is available through the OpenBus connection for backlighting or accessories
- Information regarding system use is stored in the control box for future reference
Our durable handsets are available in standard and customizable configurations to fit your needs.
## Specifications

<table>
<thead>
<tr>
<th>Type</th>
<th>Control</th>
<th>OpenBus™</th>
<th>Actuators (max)</th>
<th>Buttons (max)</th>
<th>Features</th>
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<tr>
<td>Handset</td>
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<td>3</td>
<td>6</td>
<td>Easy-touch buttons, Customizable front cover</td>
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<td></td>
<td>HB01</td>
<td>✔️</td>
<td>5</td>
<td>10</td>
<td>Available with LED indicators</td>
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<td></td>
<td>HB20</td>
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<td>12</td>
<td>Anti-slip rubber coating, Customizable front cover, Memory options</td>
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<td></td>
<td>HB30</td>
<td>✔️</td>
<td>4</td>
<td>8</td>
<td>Hook or magnet, Anti-slip rubber coating, Exchangeable cable</td>
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<td></td>
<td>HB40</td>
<td></td>
<td>4</td>
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<td>Hook, Anti-slip rubber coating, Customizable front cover</td>
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<td>Soft touch button option</td>
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<td>DPH</td>
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<td>2</td>
<td>Can be integrated into a surface</td>
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<tr>
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<td>Lock-out function, Critical positioning functions, Customizable front cover</td>
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<td></td>
<td>ACK</td>
<td>✔️</td>
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<td>15</td>
<td>Critical Positioning Functions, Lock-out Function, Customizable design</td>
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<td>Hook, Lock-out function, Critical positioning functions</td>
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<td>Lock-out function, Critical positioning functions, Compact design</td>
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<td>Foot Switch</td>
<td>FS</td>
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<td>4</td>
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<td>Memory positions, Modular system, Fixed bed mount or floor/free standing</td>
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<td>FS3</td>
<td>✔️</td>
<td>4</td>
<td>4</td>
<td>Modular system, Fixed mount or floor/free standing</td>
</tr>
</tbody>
</table>

## Batteries

- **BA18**
  - External battery box
  - Charged by the control box

- **BA19**
  - Lead acid battery
  - IPx6
  - Built in charger
  - Flexible mounting options

- **BA21**
  - Lithium-ion battery
  - IPx6 Washable DURA™
  - Built in charger
  - Flexible mounting options

- **KB19**
  - Lead acid battery
  - Intelligent low voltage alarm
  - Straight and detachable cable
  - Compact design
OpenBus™ accessories

Imagine the possibilities that LINAK can bring to your application.

**Attendant Lockout Controls**
- Long cable gives added flexibility in mounting

**Electronic Brake Control**
- Press a button and activate castor locks

**Wireless Control**

**Scale**
- Weigh patient in bed

**Service Data Tool**
- Complete usage history

Efficient maintenance has never been easier with Service Data Tool which offers detailed service data display and easy documentation of service visits.

**Safe patient handling is ensured by easy access to:**
- Information on product use
- Diagnostic tool
- Easy service visit reports
- Service log to track maintenance

**Information where needed:**
- Integrated help function
- Add checklist for service technician to follow

**Under Bed Light**
- Long cable gives added flexibility in mounting
**BEDSIDE LIGHT**
- Adjustable light that mounts directly to bed

**UNDER BED LIGHT (UBL2)**
- Varying light intensities

**NURSE CALL**
- Customizable button lets you customize service

**WET DETECTION**

**GATEWAY**
- Connect to nurse call
- Send data

**MJB Under Bed Light (INT)**
- LED integrated in the MJB housing

**MJB**
- Possible to connect multiple handsets, attendant controls or 3rd party products
- Gateway version allows LINAK system to communicate with a facility’s nurse call system

**MJB8**
- Possible to connect up to 7 handsets, attendant controls or 3rd party products

**USB CHARGER**

**OpenBus™**

**DJB**
- For connection of up to 4 controls
- Available version that converts analog controls to OpenBus™ system
- IPX6

**Junction boxes**
GLOBAL PRESENCE

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

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 fulfill 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 catalogs or other written material drawn up by LINAK.

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