



# Actuator systems for recliners

[LINAK.COM/HOMELINE](https://linak.com/homeline)

**LINAK**®   
WE IMPROVE YOUR LIFE

# LINAK<sup>®</sup> - your partner

Linear actuator movement might be the simplest movement in the world. And yet, perfecting something simple is one of the hardest challenges.

Since LINAK<sup>®</sup> founder Bent Jensen came up with the idea for the first electric actuator in order to help a friend in a wheelchair, every engineer and specialist employed by LINAK has aimed to solve real-life challenges for real people.

To this day, our motto; 'We Improve Your Life' is reflected in everything we do. Whether we engage in product development, operation or implementation of technology, we always look for ways to make it easier for our customers to enter into in collaborations and partnerships with us and to ultimately improve the lives and working conditions of end users.

Our solutions move people – their work and their lives.  
We Improve Your Life!

# Relax - we have your back

Creating adjustable quality furniture for discerning customers in a fierce market can be quite a challenge. Especially when it comes to comfort furniture for living rooms, where elegant design has to meet sublime function.

We understand that in comfort furniture, the integrated movement systems must not compromise comfort or obstruct design in any way. The electric actuators generating the movement add comfort by delivering smooth and low-noise motion.

## **Built on knowledge, experience, and field research**

We want to take every aspect into consideration when we develop new solutions. We conduct field studies, interview different stakeholders, and test materials thoroughly before we start – also during development. We know that your customers expect innovation, quality and reliability, and this is where we can deliver everything – from one supplier.

Creating the latest actuator system for pedestal recliners was no exception, and we hope you see why and how it makes a difference.

**Watch our video**







# System built on extensive field research

As a supplier of complete systems, we know that our job is quite straightforward; to ensure that you get the most reliable system in the world and that you retain full freedom to design the furniture you want.

To make sure we got it right and have considered every possible detail, we contacted:

- **Designers** - talked about space and shape requirements
- **Purchasers** - interviewed about buying processes and stock management
- **Facility workers** - watched them assemble systems and mount them to furniture
- **R&D experts** - discussed technology needs
- **Upholsters** - went through the mounting process
- **Consumers** - conducted surveys
- **Retailers** - had them tell us about usability, consumer behaviour and the typical quality issues they experience

Everything comes together in the LINAK® solution for pedestal recliners – making it much easier for you to deal with products that accommodate every stakeholder.





**Lars Appel Mortensen,**  
Technical Sales  
Application Engineer  
at LINAK



**“We did several things to eliminate the most common cable issues. We used serial connection of the actuators, took the traditional control box out of the equation, and used Bluetooth® BLE technology to connect to the control panel - it all helped reduce the number of cables”.**

# Speed up the R&D process



The LINAK system for recliners will speed up development with a hands-on configurator and plug and play actuators with predictable, precise calibration. What is more, we offer you a system built to eliminate quality issues in the long run.

## **Hands-on configuration of products**

You no longer need to wait for new factory configured parts. Iterate faster and explore more system opportunities with the hands-on LINAK® configuration tool. This frees up time to experiment.

## **Ready-for-use actuator, always consistent specs**

What you order is exactly what you get. When you are designing for confined spaces a couple of millimetres can make a tremendous difference.

Accurate calibration ensures worry-free system integration. All products are calibrated and will deviate less than 1 mm from spec. This makes our LA10 system easy to integrate in your recliner in production because the actual size fits expectations.

## **Plug and play**

All the LA10 actuators are similar and are made to connect in a series. Experimentation is easy - simply change actuator positions and add/remove actuators in a series

to find the right fit. You can even connect power to either ends of the system – no problem.

The powerline communication (PLC) ensures that each actuator knows where it is in the series and how the system works.

## **Magnetic charging point**

For charging the recliner, LINAK also has launched a new magnetic addition to the selection of existing charging points – CP003. This means that the new charging cable will conveniently snap into place on the charging point to connect the chair to power - and if someone does trip on the cable, it simply pulls off, preventing the system for damage.

## **Eliminate quality issues**

LINAK® actuator systems are built from quality materials and components - creating smooth and low-noise movement.

We have discovered where most quality issues occur, and went to great lengths to prevent and eliminate the root cause to those issues. For example, we reduced the total number of cables in the system, because we know from retailer interviews, that squeezed and broken cables are one of the most frequent causes of quality issues.







# Reduce inventory complexity



We streamlined your day by simplifying ordering and optimising stock management, without limiting the number of ways to configure or set up an adjustment system for your recliner.

## **Build more with fewer parts**

Using LINAK® products you can literally build more with fewer parts. To reduce complexity for the purchasing professionals, we have created a system that ensures simple ordering with modular products, that allow you to build more with fewer parts. The best part? You get total system solutions – all from one supplier.

This system for recliners revolves around the linear actuators LA10. These can be connected in a series of two or more, depending on your design.

We optimised the system by using technology that ultimately removed several cables and elements from the equation. Among other things, this made an external control box redundant. In short, this means that all you need for a system is LA10 actuators, a Bluetooth® dongle, a control unit, a charging point and a few cables.

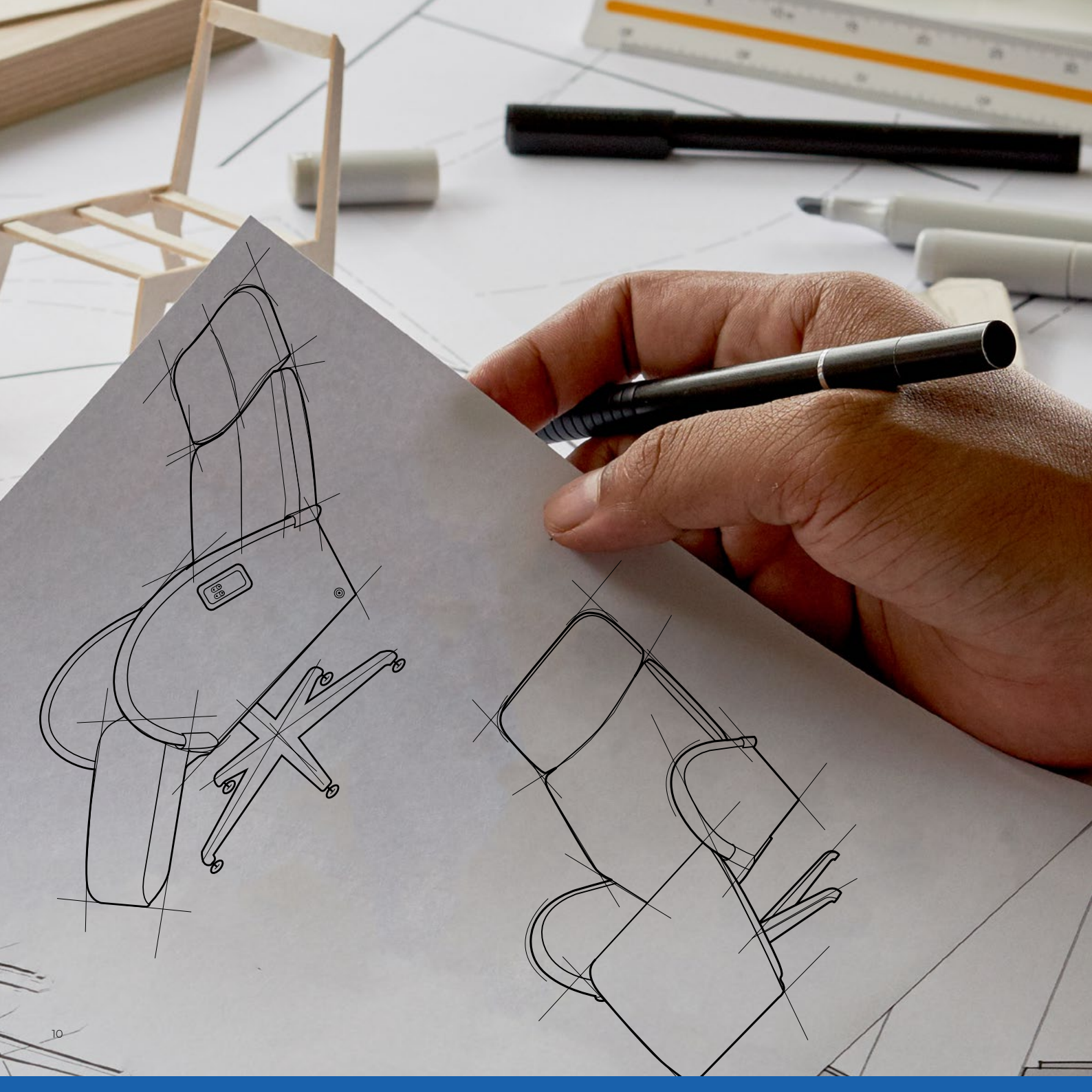
## **Enjoy modularity with product flexibility**

Our modular approach means that one product can be used for a variety of recliner designs, and it helps streamline your inventory. With the hands-on LINAK®

configuration tool, your R&D can reconfigure the LA10 actuators to fit into different chair designs, effectively making it possible to use the same products for different recliners.

## **Easy ordering – one supplier**

We have created a scenario where you only have to work with one supplier to get a full system for a recliner. We are a one-stop-shop and to simplify ordering, we gave all the LA10 actuators just one single item number. It doesn't get simpler than that.



# Care for the finer details



Is it really possible to retain full design freedom when you create adjustable furniture? With LINAK® actuator systems we have gone to great lengths to ensure that you can.

Making your recliner look perfect requires attention to detail. That is why we have invested time and energy in creating visible parts of a system, such as charging point and control unit, which will enhance your design.

## Offer user-friendly controls

All of our control options are made extremely simple and intuitive to use, and gives the owner quick and easy access to the system features.

We even offer the My Recliner™ App where consumers can use a smart phone to adjust their recliner.

## Who needs a manual for a control?

Our controls are made extremely simple and intuitive to use, and give the owner quick and easy access to the system features. We even offer the My Recliner™ App.

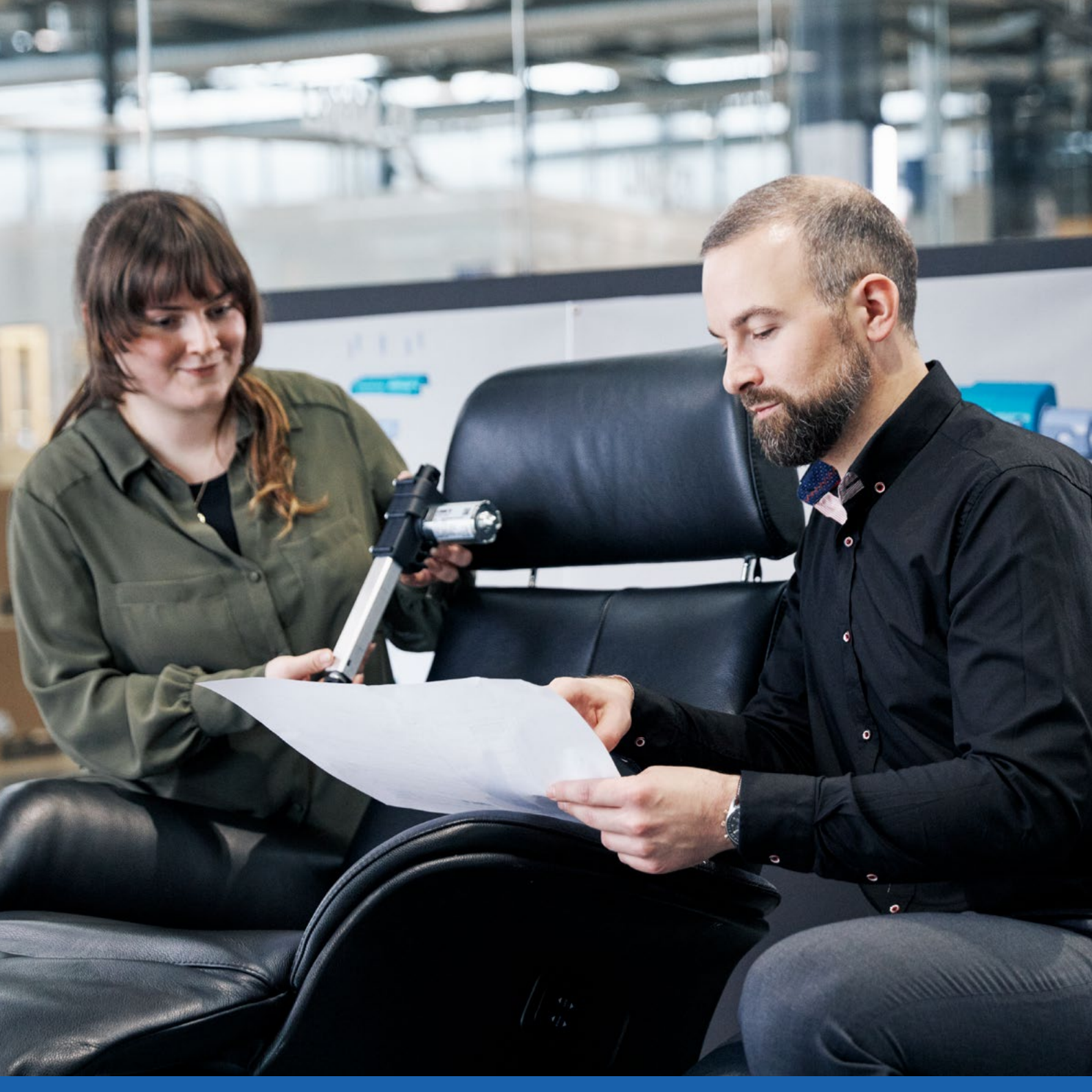
## Make your mark

All control options can be customised to create brand awareness with the consumer. Customisation is available for both the physical controls and the My Recliner™ App.

Full design freedom to have the best looking recliner on the market with the smoothest and most reliable movement system inside - this is what caring for the finer details looks like!







# Happy consumers bring friends and family



Watching a happy customer leave the store is a great feeling. No doubt about it. However, watching them return, bringing their friends or family is even better.

At LINAK® we also care a lot for retailers – and ultimately consumers – when we develop systems for comfort furniture. We prioritise quality and make our products durable and easy to use, and design our systems with value-adding features to improve and enhance the experience.

We have got your back – literally!



## Fewer cables means fewer quality issues

First and foremost, LINAK® actuator systems are extremely reliable. This comes from only using the best quality parts, from extensive product testing, and from years of experience developing and manufacturing actuators. For recliners, we have created a system with serially connected actuators, no control box, and with wireless controls. This significantly reduces the number of cables, often the root cause of quality issues, e.g. squeezed or broken cables.

## No longer a need for regular charging regimes - storing with confidence!

With the new BA002 it is now possible to store batteries or chairs without discharging during storage, shipping, or extended downtime\*. To conserve battery charge, the wireless Bluetooth® control enters a sleep mode in quiet periods and switches off quickly after use. The BA002 is simple to integrate and blends seamlessly with any design.

## Avoid damage

Our wall-wired systems for recliners have been designed to fit in different power inlets and outlets, and is design to avoid damage to the system. This is done by either adding the safety release cable to the charging points CP001 or CP002. The CP003 is a magnetic charging point, meaning that it is not connected to the recliner with a plug, but instead with a magnet. This means that if the cable is pulled it will simply release.

## Intuitive products

Adjusting your chair for ultimate comfort is easy and intuitive with our simple design.

\* The BA002 has 3 year warranty





# My Recliner™ app

## My Recliner™ app

Control the recliner with an app by connecting the app and recliner system via Bluetooth® technology.

With the My Recliner™ App you can offer your customers even more options for control. Even make your own app by simply customising it with your

colours, logo and links to your webpage. You can also define which functionalities should be available as basic functionalities.

- Adjust LINAK recliner systems
- Possible premium features
- Available for iOS and Android



# LINAK actuator systems for recliners without battery

## Linear actuator



### LA10

- Max. lifting capacity: 3,500 N
- Stroke length: 25 - 300 mm
- Speed: up to 16 mm/s (for 6 mm spindle pitch)
- Soft start/stop

**Wired solution:  
modular and  
intelligent** When  
you choose a wired  
system you simply  
add the Bluetooth®  
dongle to the LA10  
actuator to enable  
wireless control.

## Control



### BP10

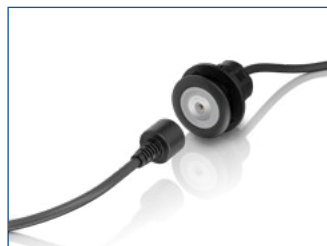
- Wireless
- Controlling 1, 2 or 3 channels
- Magnetic mounting options
- Exchangeable batterie

## Accessories



### Bluetooth® dongle

- Connects the control to the actuator system via Bluetooth® technology.
- Small and compact



### Charging point

- Multiple versions
- Connects the chair to power outlet
- Choose between jack stick and magnetic connection

## Power supply



### Power supply

- External power supply
- Universal unit
- 0.1 W standby power

# LINAK actuator systems for recliners with battery

## Linear actuator



### LA10

- Max. lifting capacity: 3,500 N
- Stroke length: 25 - 300 mm
- Speed: up to 16 mm/s (for 6 mm spindle pitch)
- Soft start/stop

**Battery solution:**  
**modular and intelligent**  
**When you choose a battery operated system you do not need a Bluetooth® dongle, as the battery offer the same integrated feature - and enables the system to connect to a wireless control.**

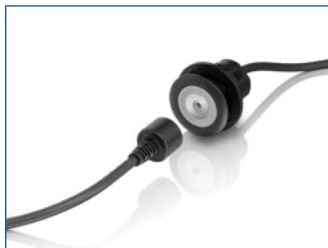
## Control



### BP10

- Wireless
- Controlling 1, 2 or 3 channels
- Magnetic mounting options
- Exchangeable batterie

## Accessories



### Charging point

- Multiple versions
- Connects the chair to power outlet
- Choose between jack stick and magnetic connection



### BA002 Battery box

- Deep sleep mode
- Up to 100 cycles/charge
- Designed to mitigate consequences in the unlikely case of cell failure
- 3 year warranty

## Power supply



### Power supply

- External power supply
- Universal unit
- 0.1 W standby power





# Actuator systems for recliners

For more information about recliners - please visit our website: [linak.com/HOMELINE](https://linak.com/HOMELINE)







For further information, please visit our website:  
[LINAK.COM/BUSINESS-AREAS/COMFORT-FURNITURE/](https://LINAK.COM/BUSINESS-AREAS/COMFORT-FURNITURE/)

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



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



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