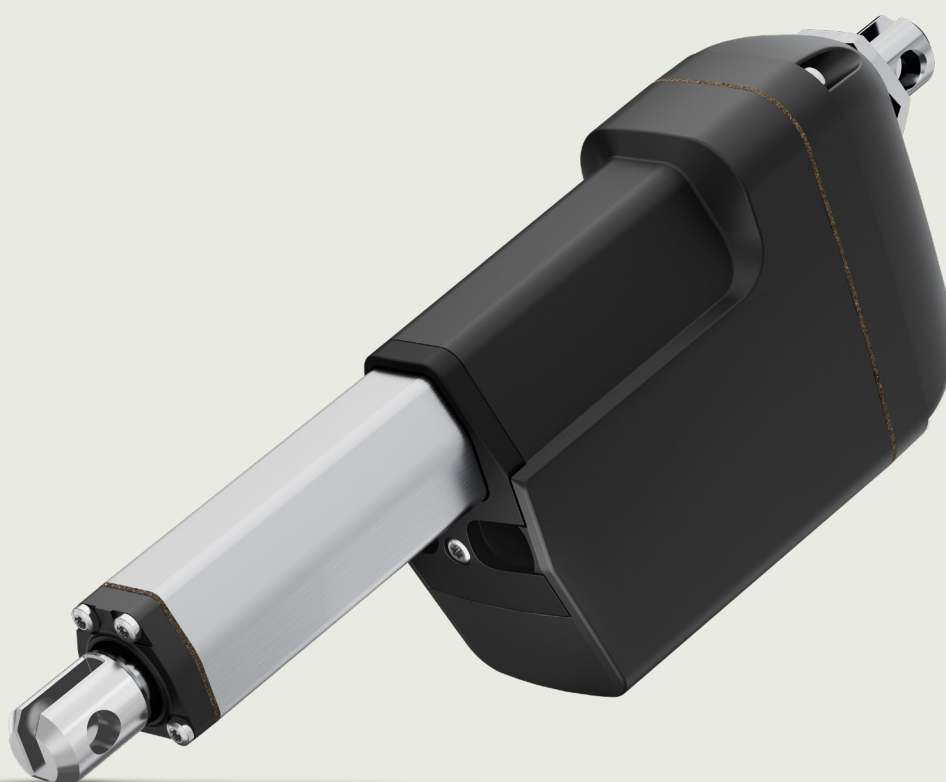


# Linear Actuator LA21

## User Manual



## Contents

Preface .....	3
Terms of use .....	4
Introduction.....	5
Safety instructions.....	5
Features.....	7
Options in general .....	8
Usage.....	9
Speed and current curves.....	10
Mounting guidelines.....	13
LED .....	15
Built-in dimensions.....	16
Stroke and built-in tolerances .....	16
Built-in dimensions to and from measure points.....	17
Electrical installation.....	18
Recommended fuse for actuators without Integrated Controller .....	18
The current limiting algorithm.....	19
Current limits .....	20
Max. Current.....	20
Mounting of cables.....	21
Manual hand crank.....	22
Label for LA21 .....	23
Maintenance .....	24
Repair.....	24
Main groups of disposal.....	24
Warranty .....	24
Declaration of Conformity.....	25
Declaration of Incorporation of Partly Completed Machinery.....	30
Contacts.....	31

## Preface

Dear User,

We are delighted that you have chosen a LINAK® product.

LINAK systems are high-tech products based on many years of experience in the manufacture and development of actuators, lifting columns, desk frames, electric control boxes, controls, batteries, accessories and chargers.

This User Manual does not address the end user. It is intended as a source of information for the equipment or system manufacturer only, and it will tell you how to install, use and maintain your LINAK electronics. The manufacturer of the end product has the responsibility to provide a User Manual, where relevant safety information from this manual is passed on to the end user.

We are convinced that your LINAK product/system will give you many years of problem-free operation.

Before our products leave the factory, they undergo both function and quality testing. Should you, nevertheless, experience problems with your product/system, you are always welcome to contact your supplier.

LINAK subsidiaries and some distributors situated all over the world have authorised service centres, which are always ready to help you. Locate your local contact information on the back page.

LINAK provides a warranty on all products. (See warranty section).

This warranty, however, is subject to correct use in accordance with the specifications, maintenance being done correctly, and any repairs being carried out at a service centre, which is authorised to repair LINAK products.

Changes in installation and use of LINAK systems can affect their operation and durability. The products may only be opened by authorised personnel.

This User Manual has been written based on the present technical knowledge. LINAK reserves the right to carry out technical modifications and keeps the associated information updated.

**LINAK A/S**

---

## Terms of use

LINAK® takes great care in providing accurate and up-to-date information on its products. However, the user is responsible for determining the suitability of LINAK products for a specific application.

Due to continual development, LINAK products are subject to frequent modifications and changes. LINAK reserves the rights to conduct modifications, updates, and changes without any prior notice. For the same reason, LINAK cannot guarantee the correctness and actual status of imprinted information on its products.

LINAK uses its best efforts to fulfil orders. However, for the reasons mentioned above, LINAK cannot guarantee availability of any particular product at any given time. LINAK reserves the right to discontinue the sale of any product displayed on its website or listed in its catalogues or in other written material created and produced by LINAK, LINAK subsidiaries, or LINAK affiliates.

All sales are subject to the 'Standard Terms of Sale and Delivery for LINAK A/S' available on LINAK websites.

LINAK and the LINAK logotype are registered trademarks of LINAK A/S. All rights reserved.

## Introduction

The LA21 is a small yet powerful industrial electric linear actuator designed for fast and precise positioning. Featuring an integrated controller, its compact form and broad customization options make it ideal for applications where space is limited but performance is critical.

Engineered to deliver consistent accuracy and reliable positioning, the LA21 is also resilient to harsh industrial conditions, including vibrations, dust, and moisture. Despite its compact size, it includes the same advanced features found in our larger actuators, making it a versatile solution for industries like agriculture, construction, and automation.

## Safety instructions

Please read this safety information carefully.

Be aware of the following three symbols throughout the document:



### Warning!

Failing to follow these instructions can cause accidents resulting in serious personal injury.



### Recommendations

Failing to follow these instructions can result in the actuator suffering damage or being ruined.



### Additional information

Usage tips or additional information that is important in connection with the use of the actuator.

Furthermore, ensure that all staff who are to connect, mount, or use the actuator are in possession of the necessary information and that they have access to this user manual.

Persons who do not have the necessary experience or knowledge of the product/products must not use the product/products. Besides, persons with reduced physical or mental abilities must not use the product/products, unless they are under surveillance or they have been thoroughly instructed in the use of the apparatus by a person who is responsible for the safety of these persons.

Moreover, children must be under surveillance to ensure that they do not play with the product.

### **Before you start mounting/dismounting, ensure that the following points are observed:**

- The actuator is not in operation.
- The actuator is free from loads that could be released during this work.

### **Before you put the actuator into operation, check the following:**

- The actuator is correctly mounted as indicated in the relevant user instructions.
- The equipment can be freely moved over the actuator's whole working area.
- The actuator is connected to a suitable electricity supply with the correct voltage.
- Ensure that the voltage applied matches to the voltage specified on the actuator label.
- Ensure that the connection bolts can withstand the wear.
- Ensure that the connection bolts are secured safely.

**During operation, please be aware of the following:**

- Listen for unusual sounds and watch out for uneven running. Stop the actuator immediately if anything unusual is observed.
- Only use the actuator within the specified working limits.
- Do not step on or kick the actuator.

**When the equipment is not in use:**

- Switch off the mains supply in order to prevent unintentional operation.
- Regularly check for excessive wear.

**Classification**

The equipment is not suitable for use in the presence of a flammable anaesthetic mixture with air or with oxygen or nitrous oxide.

**Warnings**

- Do not sideload the actuator
- When mounting the actuator in the application ensure that the bolts can withstand the wear and that they are secured safely
- If irregularities are observed, the actuator must be replaced
- Do not lift or carry the actuator on its cables

**Recommendations**

- Do not place load on the actuator housing
- Prevent impact or blows, or any other form of stress to the housing
- Ensure that the cable cover is mounted correctly. Use 2 Nm torque
- Ensure that the duty cycle and the usage temperatures for actuators are respected
- Ensure that the cable cannot be squeezed, pulled or subjected to any other stress
- During system design -ensure that wire connections are made inside a closed and protective enclosure, to obtain compliance with the IP protection requirements
- Furthermore, it will be good practice to ensure that the actuator is fully retracted in the "normal" position. The reason is that there will be a negative pressure inside the actuator if it is extended which over time can lead to water entering the actuator
- It's good practice to mount the actuator with the motor housing facing upwards and the wires pointing downwards for outdoor applications. This helps protect the motor from environmental elements like rain and debris, ensuring better performance and longevity

## Features

- 12, 24 or 48 V DC permanent magnetic motor  
(12 and 24 V DC available without Integrated Controller)
- Load from 500 N - 3.500 (depending on gear ratio and spindle pitch)
- Max. speed 85 mm/sec. (depending on motor, gear ratio and spindle pitch)
- Stroke length from 50 to 800 mm (with Integrated Controller from 70 to 800 mm)
- Built-in endstops reached function
- Highly efficient acme thread spindle
- Safety factor 2: The actuator has been certified to withstand static loads that are twice the magnitude of its dynamic load capacity without sustaining damage.
- Heavy duty aluminium housing for challenging environmental conditions
- Protection class: IP66 for outdoor use (dynamic). Furthermore, the actuator can be washed down by a high pressure cleaner (IP69K - static)
- Integrated brake with high self-lock ability
- Non-rotating piston rod eye
- Mechanical endstop
- Hand crank for manual operation
- Weight: 2.1 kg for 100 mm stroke; Additional 0.2 kg for each additional 50mm stroke.  
(Cable not included; weight varies by selected options)

## Options in general

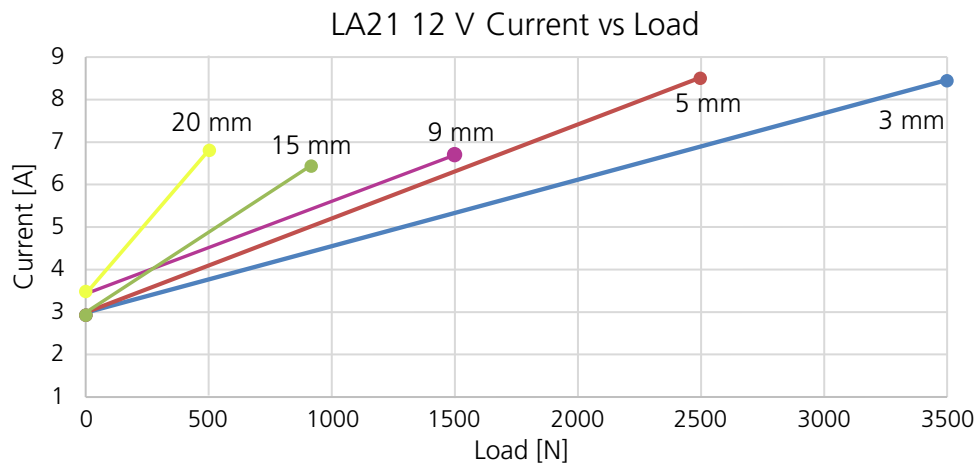
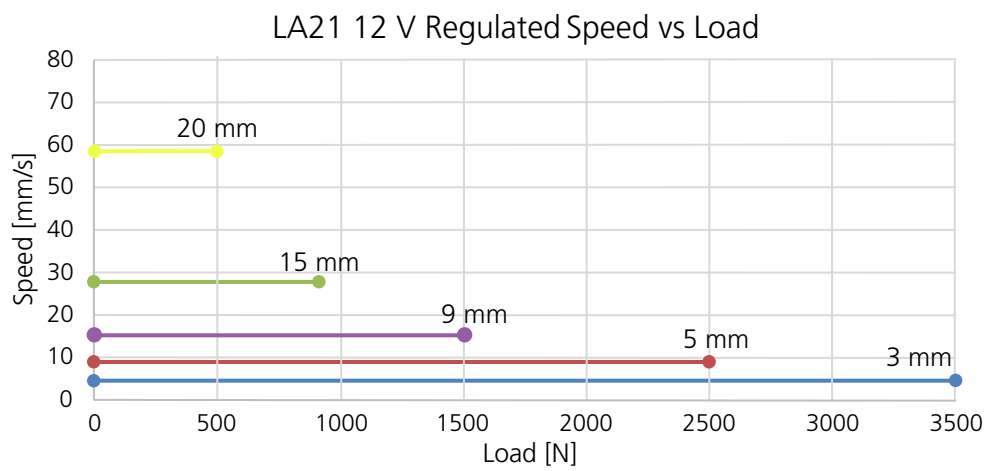
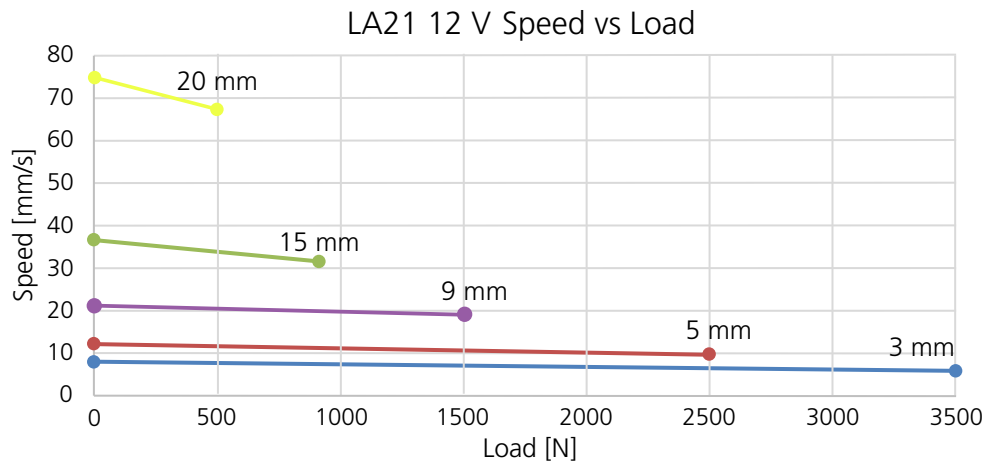
- Back Fixture options as male adapter and various slotted in both 0 or 90 degrees
- Piston Rod Eyes options as male adapter, various slotted and ball eyes
- Exchangeable cables in different lengths
- Anodised housing for extreme corroding environments -see paragraph regarding 'Special anodised housing'
- When ordering AISI 304 piston rod eye and back fixture, stainless steel screws are automatically included
- Feedback interfaces:
  - Built-in endstop switches
  - Analogue or digital position feedback from hall effect sensor
- Integrated Controller with contactless incremental encoder, contactless calibration (Zero-point) and following interfaces:
  - I/O
  - CAN SAE J1939
  - CANopen
  - LIN bus
  - Modbus RTU
  - Modbus TCP/IP
  - EtherNet/IP
  - PROFINET
  - IO-Link
- Specific interface user manuals are available at the [TECHLINE webpage](#) containing both Connection Diagrams and I/O Specifications
- PC configuration tool (Actuator Connect™)

## Usage

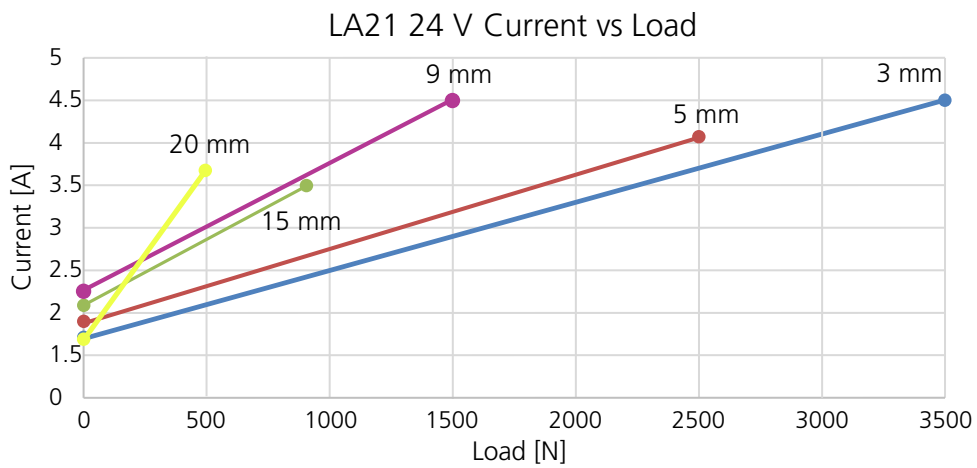
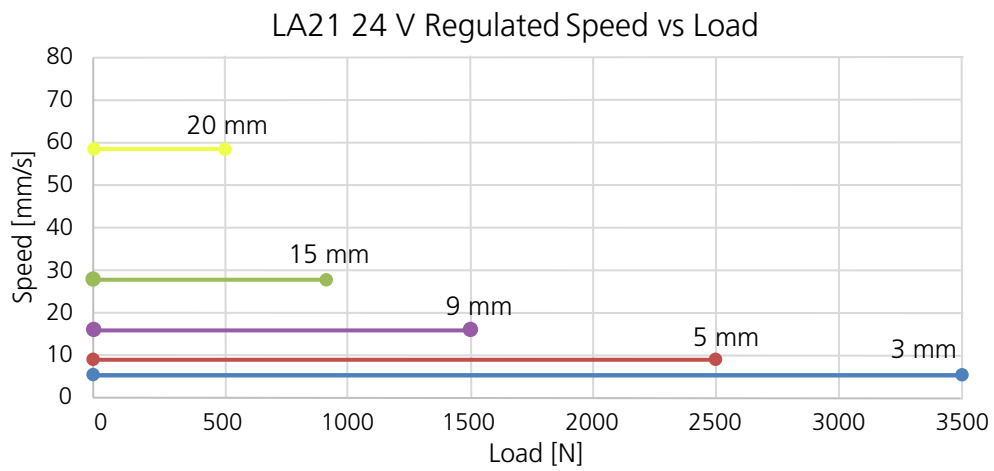
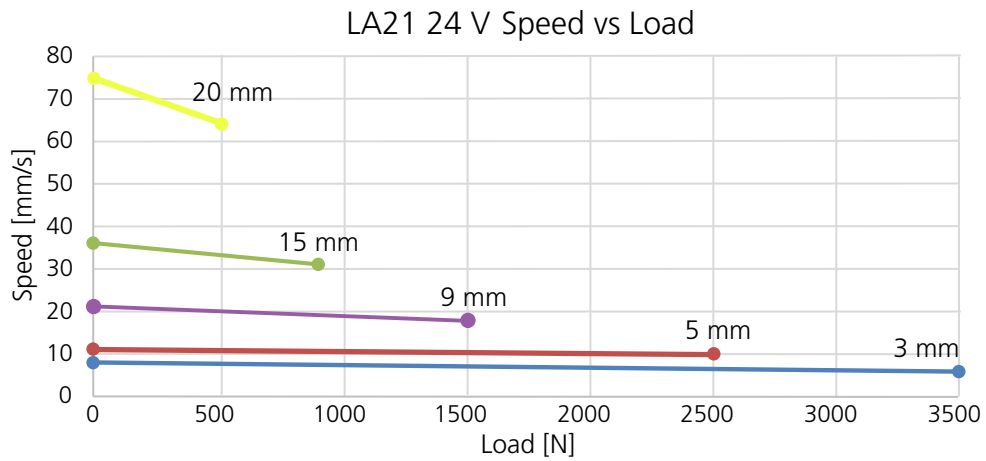
- Duty cycle up to 800 mm stroke: max. 20% (240 s drive and 960 s rest)
- Ambient operating temperature: Full performance from -20°C to +65°C  
-30 to -20°C (reduced load 50%)  
-40 to -30°C (no load)  
+65 to + 85°C (reduced duty cycle)
- Storage temperature: -40°C to +70°C  
Actuator is not activated/  
connected -55°C to +95°C for 24 hours for Standard platform  
-55°C to +105°C for 24 hours for Integrated Control platform
- Acclimatisation before usage.
- Relative humidity: Full performance from 20% to 80% - non-condensing
- Cyclic state: 93% to 98% - non-condensing +25°C to +55°C for 12 hours
- Steady state 93% to 95% - non-condensing +40 °C for 56 Days
- Atmospheric pressure: 795 to 1060 hPa
- Meters above sea level: Tested to 2000 meters

## Speed and current curves

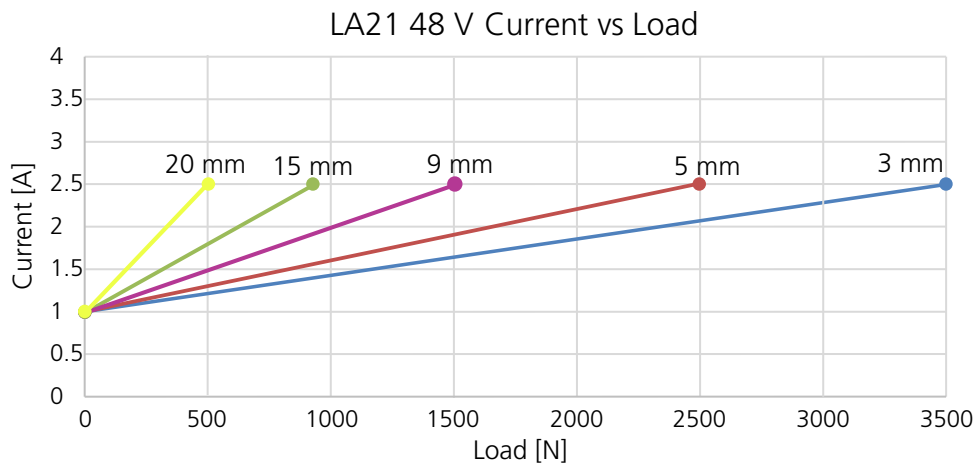
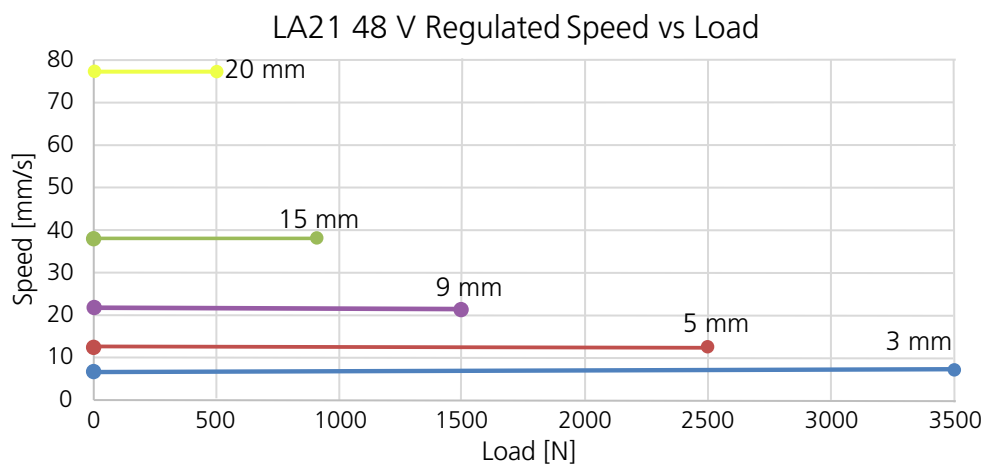
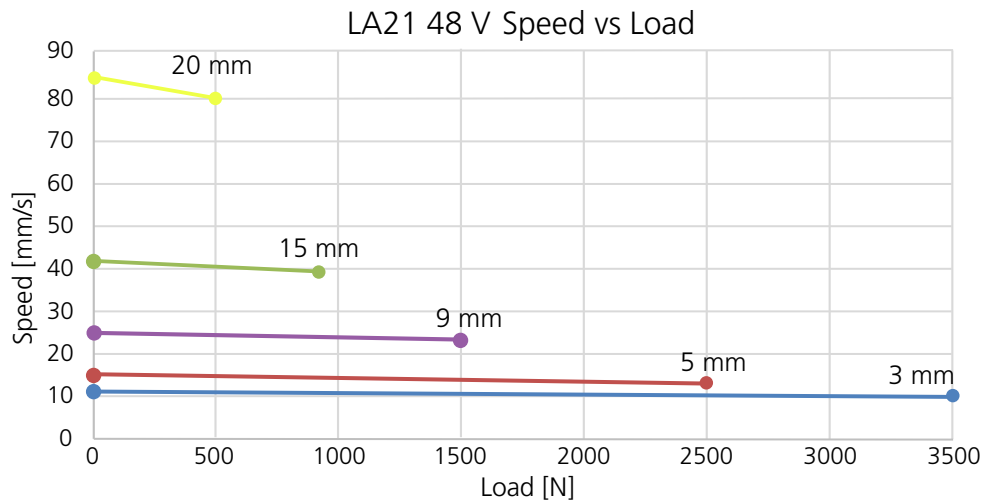
The typical values below are made with a stable power supply and an ambient temperature of 20°C.



The typical values below are made with a stable power supply and an ambient temperature of 20°C.



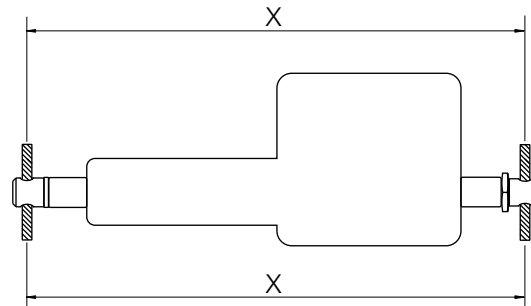
The typical values below are made with a stable power supply and an ambient temperature of 20°C.



## Mounting guidelines

LINAK® linear actuators are quickly and easily mounted by slipping pins through the holes on each end of the units and into brackets on the machine frame and the load.

The mounting pins must be parallel to each other as shown below. Pins, which are not parallel to each other, may cause the actuator to bend and be damaged.

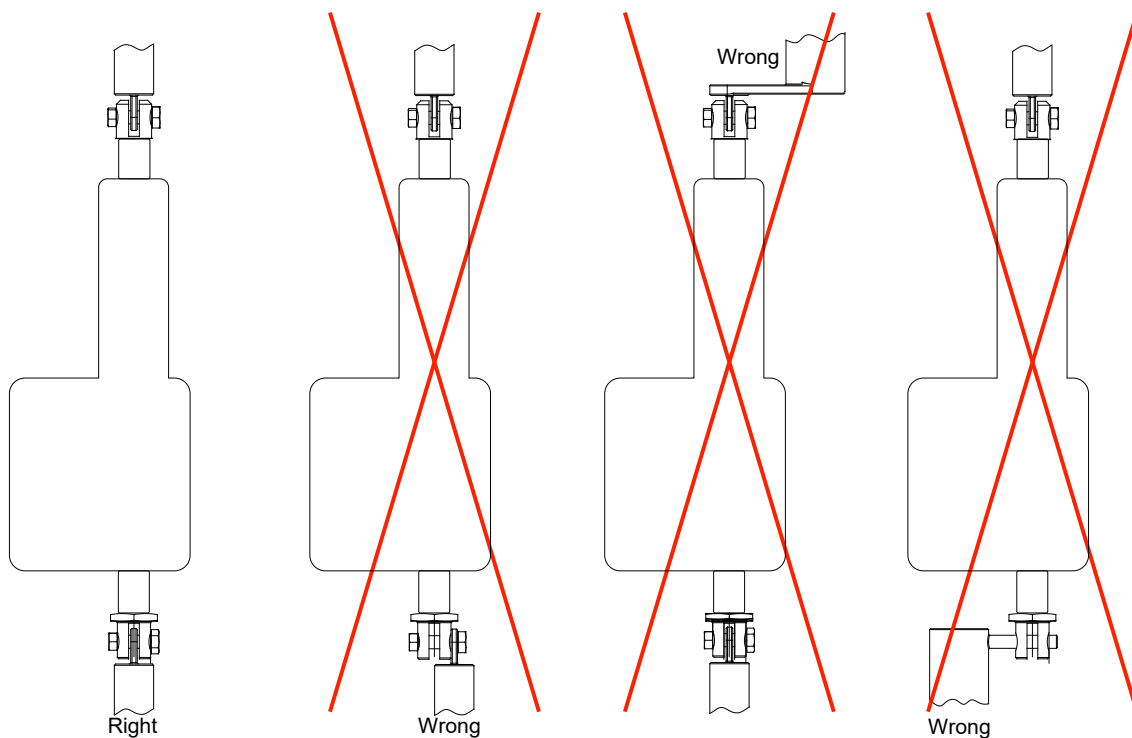


The load should act along the stroke axis of the actuator since off centre loads may cause bending and lead to premature failure. See Figure below.

Support both ends of the mounting pins. Failure to do so could shorten the life of the actuator. Do not use mounts that support the actuator on one side only.

The actuator can rotate around the pivot point in the front and rear end. If this is the case it is of high importance that the actuator is able to move freely over the full stroke length, both during the development and during daily operation. Please pay special attention to the area around the housing where parts can be trapped and cause damages to the application and actuator.

In applications with high dynamic forces LINAK recommends not to use the fully extended or retracted position over longer time, as this can damage the endstop system permanently.



Please note that if the actuator is used in applications where there is moisture, it is recommended to mount the actuator with the motor housing facing upwards and the wires pointing downwards.

## Mounting guidelines



- The mounting pins must have the correct dimensions.
- The bolts and nuts must be made of high-quality steel (e.g., grade 10.8).
- Ensure there is no thread on the bolt inside the back fixture or the piston rod eye.
- Bolts and nuts must be secured to prevent them from falling out.
- Avoid using excessive torque when mounting bolts for the back fixture or the piston rod eye, as this can stress the fixtures.



LA21 with Integrated Controller come with zero point.

The zero point initialization zone is located between 35-70 mm from the most inward position.

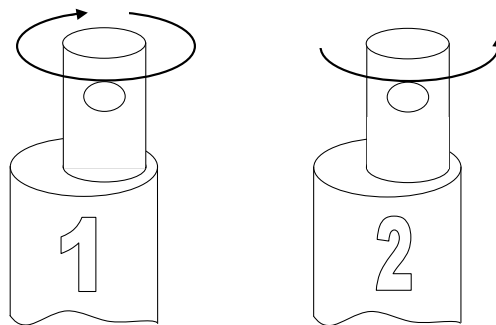
The movement passing the zone has to be stable for the initialization to succeed, no virtual limits can be set in the initialization zone.

### Please note:

**The piston rod eye is only allowed to turn 0-180 degrees.**

### Instruction concerning the turning of the piston rod eye and inner tube:

- When mounting and taking into use, it is not permitted to make excessive turns of the piston rod eye. In cases where the eye is not positioned correctly, it is permitted to first screw the eye down to its bottom position, at a maximum torque of 2Nm (1), and thereafter a maximum 180 degrees turn outwards again (2).
- As the piston rod eye can turn freely, it is important to ensure that the eye cannot rotate if the actuator is used in a pull application. If this happens, the actuator will be pulled apart and damaged.



### Warning!

If the actuator is used in a pull application where personal injury could occur, it is the manufacturer's responsibility to incorporate a suitable safety arrangement to prevent injury in case of actuator failure.



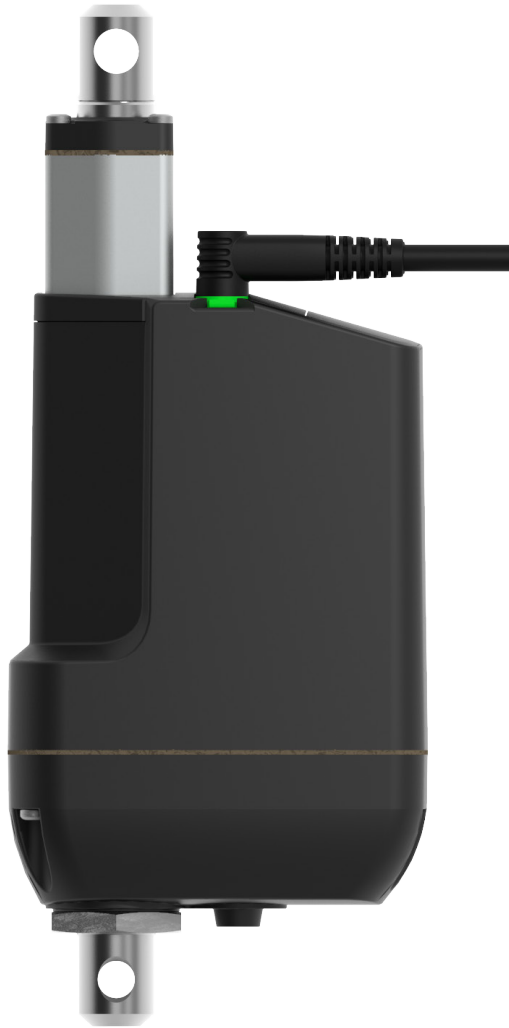
### Warning!

**LINAK's actuators are not designed for use within the following fields:**

- **Nuclear power generation**
- **Aeroplanes and other aircraft**
- **Explosive environments**

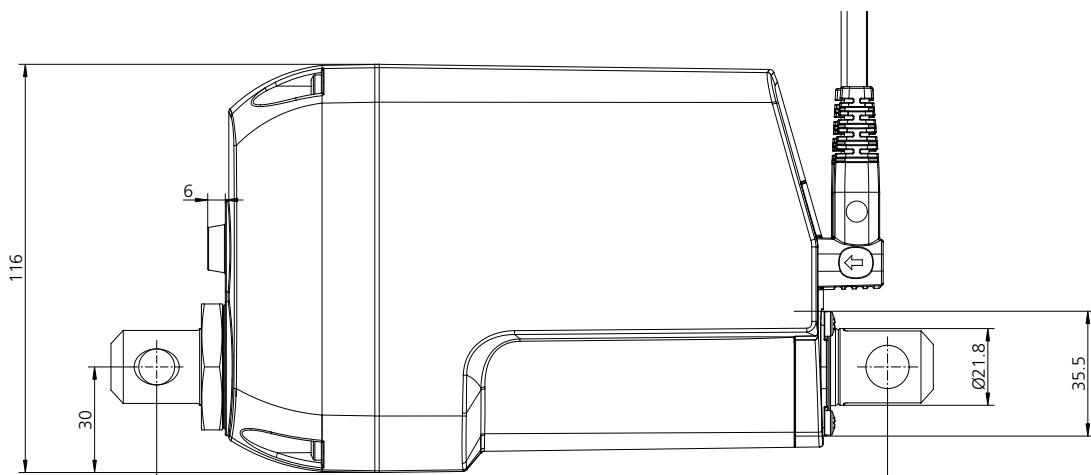
**LED**

LA21 with IC comes with a status LED on the signal cable. Make sure that the LED is visible to quickly spot the status of the actuator.

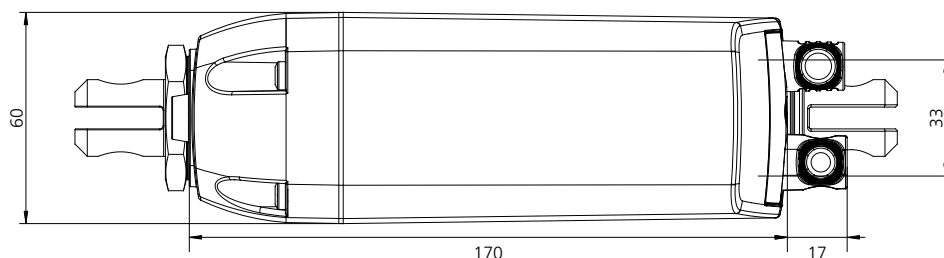


## Built-in dimensions

All dimensions are in mm



When STROKE  $\leq 300$  = Built-in dimension; 156+STROKE LENGTH -(Shortest BiD 209 mm - 226 mm for Zero Point)  
 When STROKE  $> 300$  = Built-in dimension; 206+STROKE LENGTH

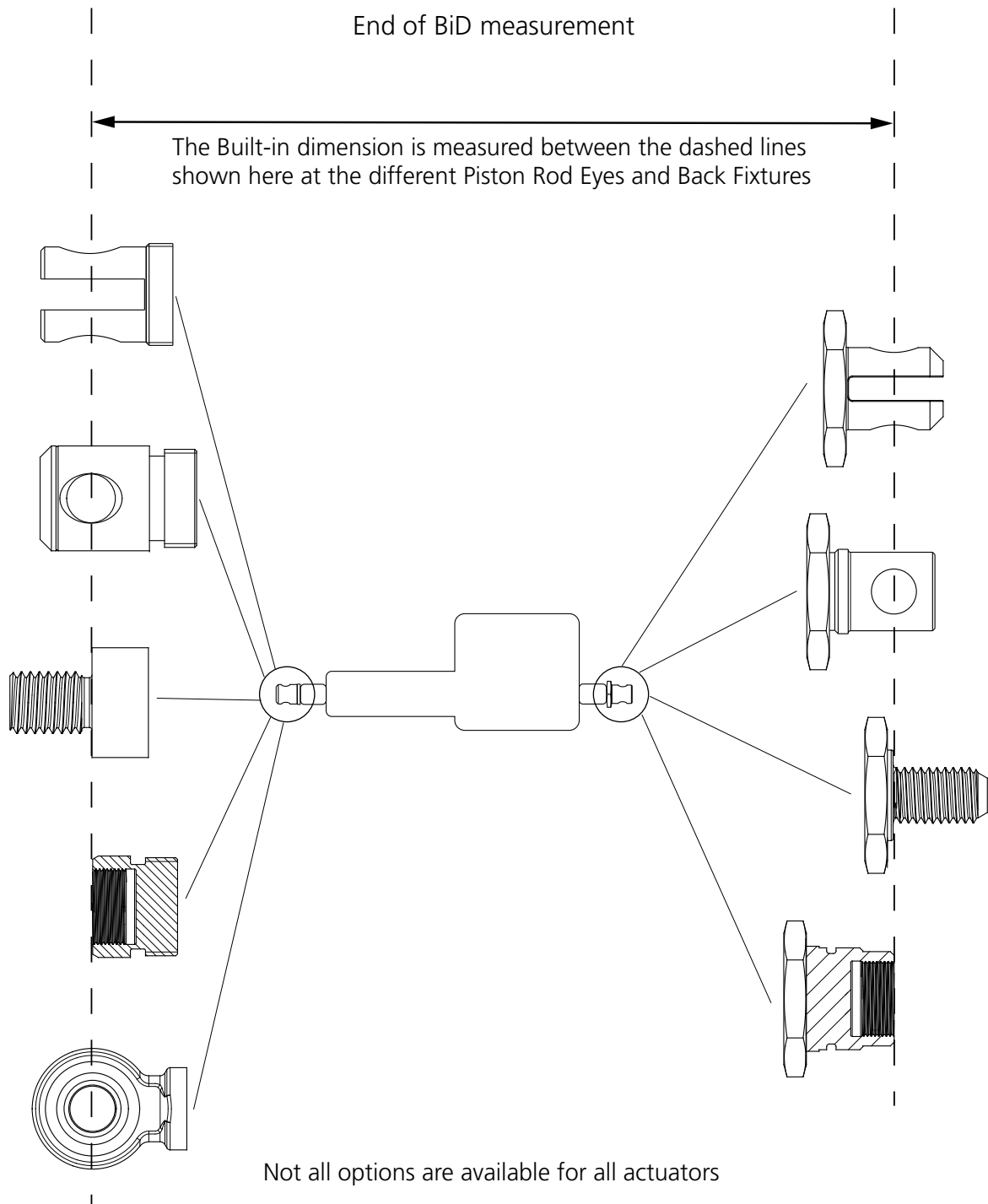


When selecting a piston rod eyes and back fixtures the built-in dimensions of the actuator can change. Please check this in the corresponding chapters


## Stroke and built-in tolerances

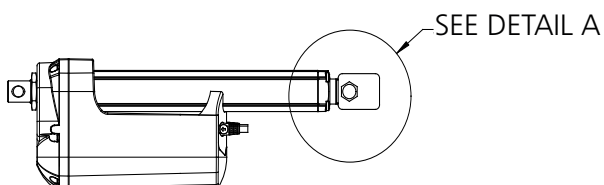
Platforms		Stroke tolerance	Example for 200 mm stroke	BiD tolerance	Example for 356 mm BiD
01	Standard with power switch	$\pm 1$ mm	199 to 201 mm	$\pm 1$ mm	355 to 357 mm
B3	I/O Basic	$\pm 1$ mm	199 to 201 mm	$\pm 1$ mm	355 to 357 mm
C3	I/O Customised				
F3	I/O Full				
0B	IO-Link				
14	Modbus RTU				
A7	SAE CAN J1939				
A8	CANopen				
2E	EtherNet/IP				
0E	Modbus TCP/IP	$\pm 1$ mm	199 to 201 mm	$\pm 1$ mm	355 to 357 mm
14	Modbus RTU				
37	SAE CAN J1939 Off-highway	$\pm 1$ mm	199 to 201 mm	$\pm 1$ mm	355 to 357 mm
38	CANopen Off-highway				

### Built-in dimensions to and from measure points

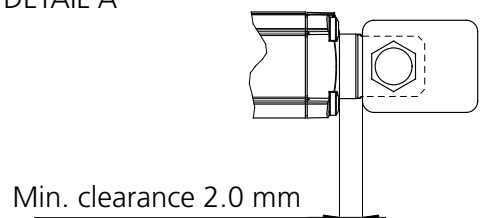


### Keep a clearance when mounting a bracket

 When mounting a custom bracket on the moving part of the actuator, please observe the minimum clearance between bracket and cylinder top when fully retracted. This will prevent jamming and destruction of the actuator drive train.



DETAIL A




## Electrical installation



- To ensure maximum self-locking ability, please be sure that the motor is shorted when stopped. Actuator with Integrated Controller provide this feature, as long as the actuator is powered.
- When using soft stop on a DC-motor, the actuator can send a short high-voltage pulse to the power supply. It is important to make sure that it does not turn off the output when this backwards load dump occurs.
- The actuator includes a soft stop feature with a duration of 300 ms. This minimizes voltage peaks sent back to the power supply. Ensure the selected power supply does not disable the output during these reverse load dumps.
- The actuator utilizes a Hall-based position system. To maintain reliable position feedback throughout the product's lifespan, the actuator must be capable of recalibration within the application.

### Calibration process

- **Without Integrated Controller:** Calibration is performed when the actuator moves to the endstop position in either direction and activates the endstop switch.
  - **With Integrated Controller:** Calibration is performed when the actuator moves outward over a range of 35-70 mm in one continuous motion, without altering speed or stopping
-  For actuators without an Integrated Controller, ensure the power supply is monitored externally. It must be disconnected in the event of a current overload to prevent damage. IC actuators come with built-in overcurrent protection, eliminating the need for external monitoring.

### Recommended fuse for actuators without Integrated Controller

Thrust max. push/pull [N]	Recommended fuse [A]	
	12 V	24 V
3,500	15	10
2,500	15	10
1,500	15	10
900	15	10
500	15	10

## The current limiting algorithm

The Integrated Controller features the latest current limiting algorithm.

If the actuator's current consumption rises above the set limit, the actuator reduces speed to stay below the current limit. The actuator does this continuously, until the actuator stops moving (mechanically blocked) - something that is determined by monitoring the Hall feedback signal. If there are no changes to the Hall feedback signal during the set time frame, the Integrated Controller will cut power to the h-bridge motor circuit.

If the actuator is stopped due to the above-mentioned criteria, it automatically drives slightly in the opposite direction to reduce the torque in a blocking situation.

This is visualised in the figure below:

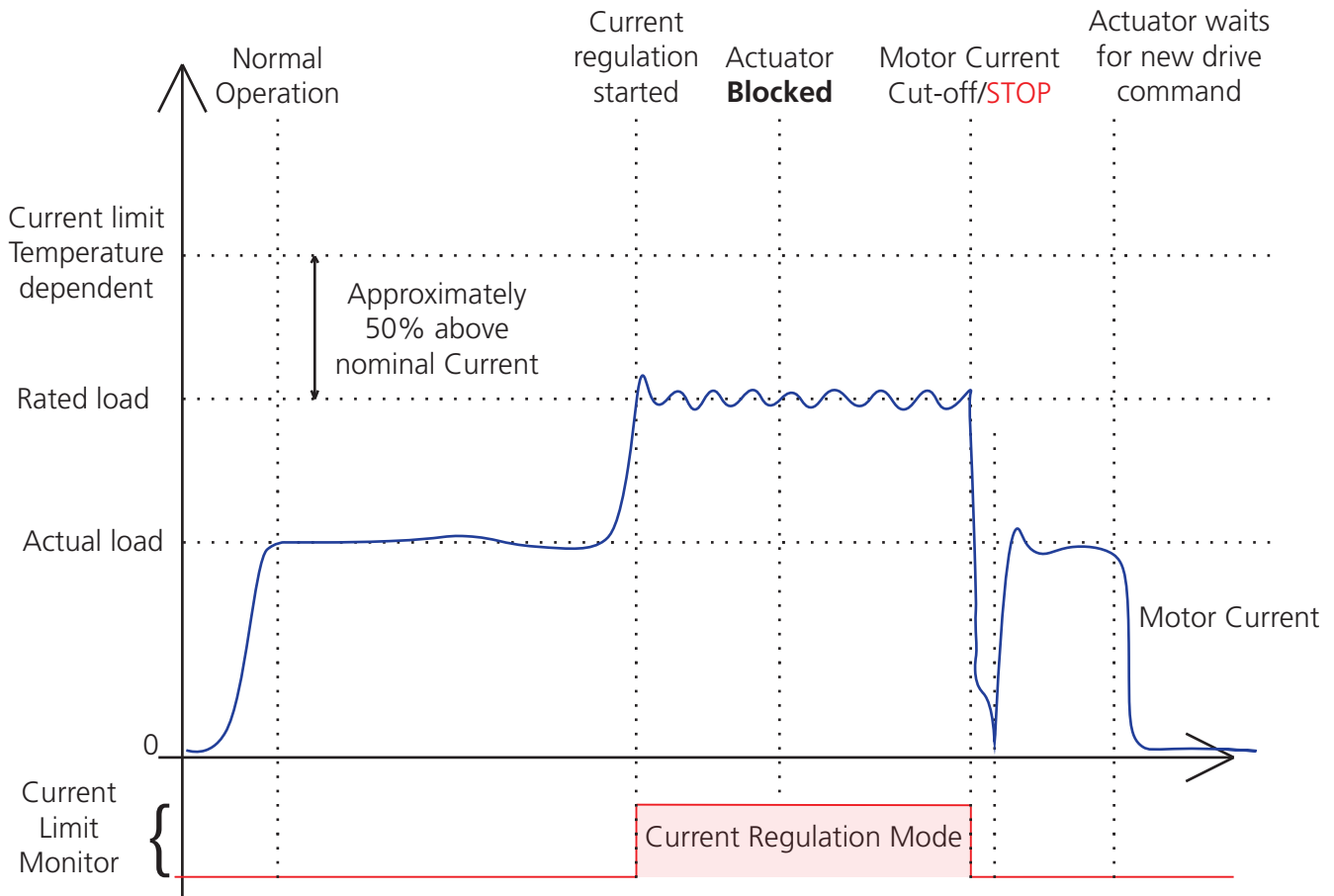


Figure 1

This control feature makes it possible to avoid loading the internal mechanical system of the actuator above its specification, which ultimately means a longer life for the actuator, especially in an abuse scenario.



Integrated Controller actuators come with factory default current limits. These values can be customised with the 'Protection' option in Actuator Connect™ or when ordering the actuator.

## Current limits

As described in the algorithm on previous page

Platform		12 V	24 V	48 V	Reference temperature: 0°C
B3 C3 F3	I/O Basic	10 A	5 A	4 A	Above
	I/O Customised I/O Full				15 A
0B	IO-Link	-	5 A	-	Above
		-	10 A	-	Below
14	Modbus RTU	-	5 A	4 A	Above
		-	10 A	6 A	Below
A7 A8	CANbus J1939 CANopen	-	5 A	4 A	Above
		-	10 A	6 A	Below
0E 2E 4E	Modbus TCP/IP Ethernet PROFINET	-	5 A	4 A	Above
		-	10 A	6 A	Below
37 38	CAN bus J1939 Off-highway CANopen Off-highway	10 A	5 A	-	Above
		15 A	10 A	-	Below

## Max. Current

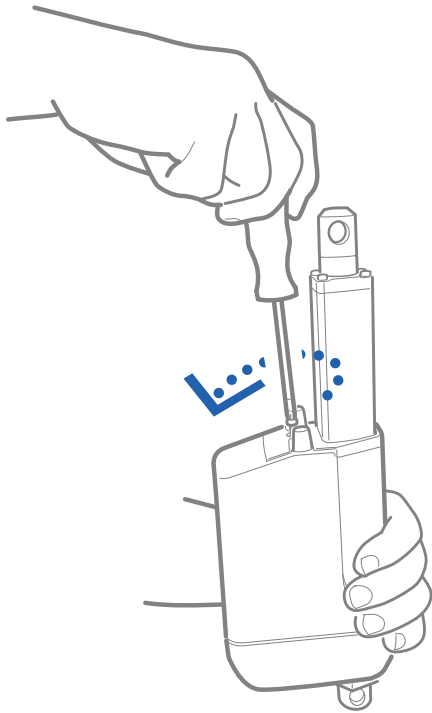
The current is not limited by actuators without Integrated Controller.

The value shown below represents the anticipated current consumption at maximum load.

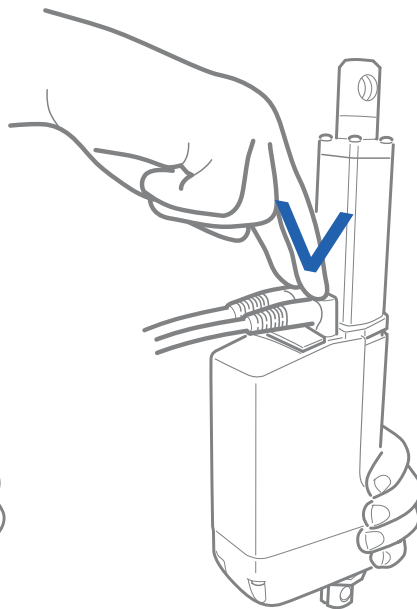
For more details, refer to: "Recommended fuse for actuators without Integrated Controller" In the user manual.

Platform		12 V	24 V	Reference temperature: 0°C
01	Standard with power switch	8 A	5 A	Above
		8 A	5 A	Below

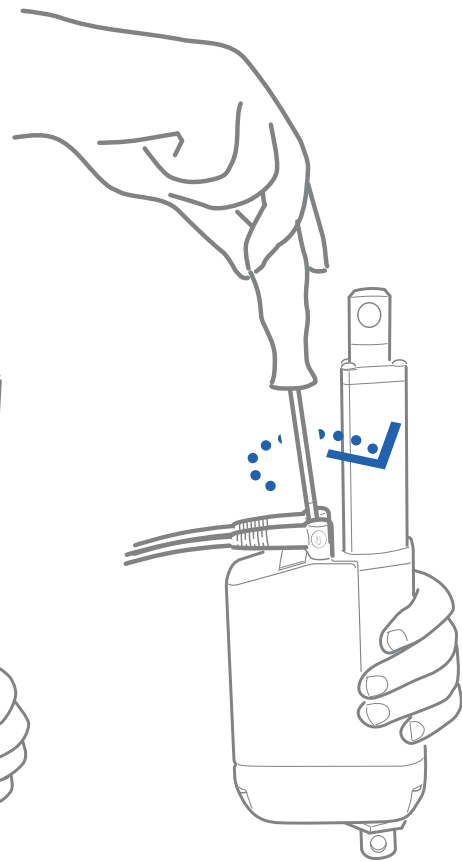
## Mounting of cables



Unscrew the screw and separate the cover from the housing. Remove the blind plug(s).




Place the plug(s) with the power cable and/or the signal cable in the cover. Slide the cover onto the actuator. Make sure the plugs are plugged in.



Tighten the screw again.

The torque of the cover screw should be:  $2 \pm 0.3$  Nm  
TORX 15IP

 When changing the cables on a LINAK® actuator, it is important that this is done carefully, in order to protect the plugs and pins. Before the new cable is mounted, we recommend that the socket is greased with vaseline®, to keep the high IP protection and ensure an easy mounting. Please be sure that the plug and gasket are in the right location and fully pressed in before the cable lid is tightened.

Cut off the tinned end if you connect the cable with screws. The tinned end is only to be used when a soldered connection is made.

Please note that if the cables are mounted and dismantled more than 3 times the plugs can be damaged. Therefore, we recommend that such cables are discarded and replaced.

Do not lift the actuator by the cables.

We recommend to take some precaution and design the wire connection in a way, where the cable end is kept inside a closed, protected area to guarantee the high IP protection.

## Manual hand crank

The manual Hand Crank can be used in the case of a power failure and is only intended for emergency use.



The cover over the Torx socket must be unscrewed before the Torx 15 driver can be inserted and the hand crank operated.

Hand crank torque: 6 Nm

Hand crank rpm: Max. 65

<b>Piston rod movement per turn:</b>					
Spindle pitch	3 mm	5 mm	9 mm	15 mm	20 mm
Gear A	-	-	-	-	14
Gear B	1.4	2.3	4.2	7	-

## Label for LA21



Designed in Denmark

DK - 6430 Nordborg

Type : 2120015000F3JA-611A10306NCA000

Item No. : 210022-00

Prod. Date : 2025.08.04

Max Load : Push 500 N / Pull 500 N IP66

Power Rate: 48 V $\overline{=}$ , Max. 3 A

Duty Cycle : 20%, Max.4 min./16 min.



W/O# -0001 Made in Denmark



1. **Type: 21 200 150 0 0 F3 J A - 6 1 1 A 1 0306 N C A 0 0 0**  
Describes the basic functionality of the product
2. **Item no.: xxxxxx**  
Sales and ordering code
3. **Prod. Date: YYYY.MM.DD**  
Production date describes when the product has been produced. This date is the reference for warranty claims
4. **Max Load: Push 500N / Pull 500N IP66**  
Describes the maximum load that the product can be exposed to in compression and tension. This line also contains a reference to the product's IP protection degree
5. **Power Rate: 48 VDC / Max. 3 Amp**  
Input voltage for the product and maximum current consumption
6. **Duty Cycle: 20%, Max. 4 min. drive / 16 min rest.**  
The duty cycle defines the maximum period during operation without interruption. After operation, a pause must be observed. It is important that the operator follows the instructions of the duty cycle; otherwise, a possible overload may result in reduced product life/errors
7. **W/O #12345678-0001**  
The LINAK work order followed by a unique sequential identification number

## Maintenance

- The actuator must be cleaned at regular intervals to remove dust and dirt and inspected for mechanical damages or wear.
- Inspect attachment points, wires, piston rod, cabinet, and plug, as well as check that the actuator functions correctly.
- To ensure that the pre-greased inner tube remains lubricated, the actuator must only be washed down when the piston rod is fully retracted.
- The actuator is a closed unit and therefore requires no internal maintenance.
- In order to maintain a proper performance of the spherical eyes and to increase the resistance against environmental wear, we strongly recommend that the spherical eyes (ball bearings) mounted on actuators from LINAK® are greased with anticorrosive grease or similar.

## Repair

See warranty disclaimer.

## Main groups of disposal

LINAK's products may be disposed of, possibly by dividing them into different waste groups for recycling or combustion.

We recommend that our product is disassembled as much as possible at the disposal and that you try to recycle it.

Product	Metal scrap	Cable scrap	Electronic scrap	Plastic recycling or combustion
LA21	X	X	X	X

## Warranty

There is an 18 months' warranty on TECHLINE® products against manufacturing faults calculated from the production date of the individual products (see label). LINAK's warranty is only valid in so far as the equipment has been used and maintained correctly and has not been tampered with. Furthermore, the actuator must not be exposed to violent treatment. In the event of this, the warranty will be ineffective/invalid. For further details, please see standard terms of sale and delivery for LINAK A/S.

### Note

Only an authorised LINAK service centre should repair LINAK actuator systems. Systems to be repaired under warranty must be sent to an authorised LINAK service centre.

In order to avoid the risk of malfunction, all actuator repairs must only be carried out by an authorised LINAK Service shop or repairer, as special tools and parts must be used.

If a system is opened by unauthorised personnel there is a risk that it may malfunction at a later date.

The actuator is not to be opened by unauthorised personnel. In case the actuator is opened, the warranty will be invalid.



## DECLARATION OF CONFORMITY

LINAK A/S  
Smedevænget 8  
DK - 6430 Nordborg

hereby declares that

Actuator (LA21 std.)  
 21\*\*\*\*\*001A\*\*\*\*\*; 21\*\*\*\*\*A01A\*\*\*\*\*; 21\*\*\*\*\*F01A\*\*\*\*\*;  
 21\*\*\*\*\*H01A\*\*\*\*\*; 21\*\*\*\*\*K01A\*\*\*\*\*;  
 21\*\*\*\*\*001B\*\*\*\*\*; 21\*\*\*\*\*A01B\*\*\*\*\*; 21\*\*\*\*\*F01B\*\*\*\*\*;  
 21\*\*\*\*\*H01B\*\*\*\*\*; 21\*\*\*\*\*K01B\*\*\*\*\*;  
 21\*\*\*\*\*001J\*\*\*\*\*; 21\*\*\*\*\*A01J\*\*\*\*\*; 21\*\*\*\*\*F01J\*\*\*\*\*;  
 21\*\*\*\*\*H01J\*\*\*\*\*; 21\*\*\*\*\*K01J\*\*\*\*\*

(The "\*" in the product description can either be a character or a number, thereby defining the variation of the product)

complies with the EMC Directive 2014/30/EU according to following standards:  
 EN 61000-6-2:2019, 61000-6-4:2019

complies with the RoHS2 Directive 2011/65/EU according to the standard:  
 EN IEC 63000:2018

Nordborg, 2025-05-06

**LINAK A/S**  
 John Kling, B.Sc.E.E.  
 Regulatory Affairs Manager  
 Authorized to compile the relevant technical documentation

This declaration of conformity is issued under the sole responsibility of the manufacturer.  
 Original Declaration



## DECLARATION OF CONFORMITY

LINAK A/S  
Smedevænget 8  
DK - 6430 Nordborg

hereby declares that

Actuator (LA21 IO.)

21xxxxxx0B3Axxxxxxxxxxxxxxxxxx, 21xxxxxx0F3Axxxxxxxxxxxxxxxxxx, 21xxxxxx0C3Axxxxxxxxxxxxxxxxxx  
21xxxxxx0B3Bxxxxxxxxxxxxxxxxxx, 21xxxxxx0F3Bxxxxxxxxxxxxxxxxxx, 21xxxxxx0C3Bxxxxxxxxxxxxxxxxxx  
21xxxxxx0B3Jxxxxxxxxxxxxxxxxxx, 21xxxxxx0F3Jxxxxxxxxxxxxxxxxxx, 21xxxxxx0C3Jxxxxxxxxxxxxxxxxxx

(The "\*" in the product description can either be a character or a number, thereby defining the variation of the product)

complies with the EMC Directive 2014/30/EU according to following standards:  
EN 61000-6-2:2019, 61000-6-4:2019

complies with the RoHS2 Directive 2011/65/EU according to the standard:  
EN IEC 63000:2018

Nordborg, 2025-06-27

**LINAK A/S**  
John Kling, B.Sc.E.E.  
Regulatory Affairs Manager  
Authorized to compile the relevant technical documentation

This declaration of conformity is issued under the sole responsibility of the manufacturer.  
Original Declaration



## DECLARATION OF CONFORMITY

LINAK A/S  
Smedevænget 8  
DK - 6430 Nordborg

hereby declares that

Actuator (LA21 CAN.)

21\*\*\*\*\*0A7A/B/J\*\*\*\*\*; 21\*\*\*\*\*0B7A/B/J\*\*\*\*\*; 21\*\*\*\*\*0A8A/B/J\*\*\*\*\*;  
21\*\*\*\*\*0B8A/B/J\*\*\*\*\*; 21\*\*\*\*\*036A/B/J\*\*\*\*\*; 21\*\*\*\*\*026A/B/J\*\*\*\*\*;  
21\*\*\*\*\*037A/B/J\*\*\*\*\*; 21\*\*\*\*\*027A/B/J\*\*\*\*\*; 21\*\*\*\*\*038A/B/J\*\*\*\*\*;  
21\*\*\*\*\*028A/B/J\*\*\*\*\*

(The '\*' in the product description can either be a character or a number, thereby defining the variation of the product)

complies with the EMC Directive 2014/30/EU according to following standards:  
EN 61000-6-2:2019, 61000-6-4:2019

complies with the RoHS2 Directive 2011/65/EU according to the standard:  
EN IEC 63000:2018

Nordborg, 2025-06-27

**LINAK A/S**  
John Kling, B.Sc.E.E.  
Regulatory Affairs Manager  
Authorized to compile the relevant technical documentation

This declaration of conformity is issued under the sole responsibility of the manufacturer.  
Original Declaration



## DECLARATION OF CONFORMITY

LINAK A/S  
Smedevænget 8  
DK - 6430 Nordborg

hereby declares that

Actuator (LA21 IO-Link Modbus.)

21\*\*\*\*\*00BA\*\*\*\*\*; 21\*\*\*\*\*00BB\*\*\*\*\*;  
21\*\*\*\*\*00BJ\*\*\*\*\*; 21\*\*\*\*\*014A\*\*\*\*\*; 21\*\*\*\*\*014B\*\*\*\*\*;  
21\*\*\*\*\*014J\*\*\*\*\*

(The '\*' in the product description can either be a character or a number, thereby defining the variation of the product)

complies with the EMC Directive 2014/30/EU according to following standards:  
EN 61000-6-2:2019, 61000-6-4:2019

complies with the RoHS2 Directive 2011/65/EU according to the standard:  
EN IEC 63000:2018

Nordborg, 2025-11-05

**LINAK A/S**  
John Kling, B.Sc.E.E.  
Regulatory Affairs Manager  
Authorized to compile the relevant technical documentation

This declaration of conformity is issued under the sole responsibility of the manufacturer.  
Original Declaration



## DECLARATION OF CONFORMITY

LINAK A/S  
Smedevænget 8  
DK - 6430 Nordborg

hereby declares that

Actuator (LA21 Ethernet.)

21\*\*\*\*\*00EA\*\*\*\*\*; 21\*\*\*\*\*00EB\*\*\*\*\*; 21\*\*\*\*\*00EJ\*\*\*\*\*  
 21\*\*\*\*\*01EA\*\*\*\*\*; 21\*\*\*\*\*01EB\*\*\*\*\*; 21\*\*\*\*\*01EJ\*\*\*\*\*  
 21\*\*\*\*\*02EA\*\*\*\*\*; 21\*\*\*\*\*02EB\*\*\*\*\*; 21\*\*\*\*\*02EJ\*\*\*\*\*  
 21\*\*\*\*\*03EA\*\*\*\*\*; 21\*\*\*\*\*03EB\*\*\*\*\*; 21\*\*\*\*\*03EJ\*\*\*\*\*  
 21\*\*\*\*\*04EA\*\*\*\*\*; 21\*\*\*\*\*04EB\*\*\*\*\*; 21\*\*\*\*\*04EJ\*\*\*\*\*  
 21\*\*\*\*\*05EA\*\*\*\*\*; 21\*\*\*\*\*05EB\*\*\*\*\*; 21\*\*\*\*\*05EJ\*\*\*\*\*

(The '\*' in the product description can either be a character or a number, thereby defining the variation of the product)

complies with the EMC Directive 2014/30/EU according to following standards:  
 EN 61000-6-2:2019, 61000-6-4:2019

complies with the RoHS2 Directive 2011/65/EU according to the standard:  
 EN IEC 63000:2018

Nordborg, 2025-11-05

**LINAK A/S**  
 John Kling, B.Sc.E.E.  
 Regulatory Affairs Manager  
 Authorized to compile the relevant technical documentation

This declaration of conformity is issued under the sole responsibility of the manufacturer.  
 Original Declaration

## DECLARATION OF INCORPORATION OF PARTLY COMPLETED MACHINERY

LINAK A/S  
Smedevænget 8  
DK - 6430 Nordborg

LINAK A/S hereby declares that LINAK DESKLINE® products, characterised by the following models and types:

Control Boxes	CBD6S
Linear Actuators	DB5, DB6, DB14, LA23, LA31
Lifting Columns	DL1A, DL2, DL4S, DL5, DL6, DL8, DL9, DL10, DL11, DL12, DL14, DL15, DL16, DL17, DL18, DL19, DL20, DL21, BASE1, LC1
Desk Panels	DPA, DPB, DPH, DPF, DPG, DPT, DP, DP1CS, DPI
Wireless Controls	BP10
Frames and Feet	Kick & Click, DF2, DF3, DLF
Accessories	BA001, BLE2LIN, CHUSB, DESK Sensor, SLS, SMPS, USB2LIN, WiFi2LIN, DC Connector, RFRL

LINAK A/S hereby declares that LINAK HOMELINE® products, characterised by the following models and types:

Control Boxes	CBD6DC
Linear Actuators	LA10, LA18, LA40 HOMELINE
Dual Actuators	TD4, TD5
Controls	BP10, HC10, HC20, HC40
Accessories	BA002, CP, BLE2DC, BLE2LIN, LED Light Rail, MD1, SMPS, WiFi2LIN

LINAK A/S hereby declares that LINAK MEDLINE® & CARELINE® products, characterised by the following models and types:

Control Boxes	CA10, CA20, CA30, CA40, CA63, CAL40, CB6, CB6S, CB6P2, CB8, CB9, CBJ2, CBJ Care, CBJ Home, CO41, CO53, CO61, CO65, CO71, COL50, OPS, PJ2
Linear Actuators	KA19, KA30, KA30 ICA, LA20, LA23, LA24, LA24 ICA, LA27, LA28, LA29, LA30, LA31, LA34, LA40, LA42, LA44
Lifting Columns	BL1, LC1, LC3
Controls	ABL, ACC, ACK, ACO, ACOD, ACOM, ACL, DP, DPH, FS, FS3, FPP, HB30, HB70, HB80, HB100, HB190, HB200, HB400, HD80, HL70, HL400, SC01
Accessories	BA15, BA16, BA18, BA19, BA22, BAJ, BAJL, BAL40, BAL50, CH01, CHJ2, CHL40, CHL50, DJB, LIN2OB, MJB2, MJB5 Plus, Massage Motor, PJB4, QLCI2, SLS, SMPS10, UBL, UBL2, UBL4 Motion, USB-A Power Adapter

LINAK A/S hereby declares that LINAK TECHLINE® products, characterised by the following models and types:

Linear Actuators	LA12, LA14, LA21, LA23, LA25, LA30, LA33, LA35, LA36, LA37, LA73, LA76, LA77
Lifting Columns	LC3 IC
Accessories	FMB

comply with the following parts of the Machinery Directive 2006/42/EC, ANNEX I, Essential health and safety requirements relating to the design and construction of machinery: 1.5.1 Electricity supply

The relevant technical documentation is compiled in accordance with part B of Annex VII and this documentation or part hereof will be transmitted by post or electronically to a reasoned request by the national authorities.

**This partly completed machinery must not be put into service until the final machinery into which it is to be incorporated has been declared in conformity with the provisions of the Machinery Directive 2006/42/EC where appropriate.**

Nordborg, 2025-07-04



**LINAK A/S**

John Kling, B.Sc.E.E., Certification and Regulatory Affairs

Authorised to compile the relevant technical documentation

# Contacts

## FACTORIES

Denmark - Headquarters  
LINAK A/S  
Phone: +45 73 15 15 15  
Fax: +45 74 45 80 48  
Fax (Sales): +45 73 15 16 13  
Web: www.linak.com

China  
LINAK (Shenzhen) Actuator Systems, Ltd.  
Phone: +86 755 8610 6656  
Phone: +86 755 8610 6990  
Web: www.linak.cn

Slovakia  
LINAK Slovakia s.r.o.  
Phone: +421 51 7563 444  
Web: www.linak.sk

Thailand  
LINAK APAC Ltd.  
Phone: +66 33 265 400  
Web: www.linak.com

USA  
LINAK U.S. Inc.  
Americas Headquarters  
Phone: +1 502 253 5595  
Fax: +1 502 253 5596  
Web: www.linak-us.com  
www.linak-latinamerica.com

## SUBSIDIARIES

Australia  
LINAK Australia Pty. Ltd  
Phone: +61 3 8796 9777  
Fax: +61 3 8796 9778  
E-mail: sales@linak.com.au  
Web: www.linak.com.au

Austria  
LINAK Zweigniederlassung - Österreich (Wien)  
Phone: +43 (1) 890 7446  
Fax: +43 (1) 890 744615  
E-mail: info@linak.de  
Web: www.linak.at - www.linak.hu

Belgium  
LINAK Actuator-Systems NV/SA (Belgium & Luxembourg)  
Phone: +32 (0)9 230 01 09  
E-mail: beinfo@linak.be  
Web: www.linak.be - www.fr.linak.be

Brazil  
LINAK Do Brasil Comércio De Atuadores Ltda.  
Phone: +55 (11) 2832 7070  
Fax: +55 (11) 2832 7060  
E-mail: info@linak.com.br  
Web: www.linak.com.br

Canada  
LINAK Canada Inc.  
Phone: +1 502 253 5595  
Fax: +1 416 255 7720  
E-mail: info@linak.ca  
Web: www.linak-us.com

Czech Republic  
LINAK C&S s.r.o.  
Phone: +42 058 174 1814  
Fax: +42 058 170 2452  
E-mail: info@linak.cz  
Web: www.linak.cz - www.linak.sk

Denmark - International  
LINAK International  
Phone: +45 73 15 15 15  
E-mail: info@linak.com  
Web: www.linak.com

Denmark - Sales  
LINAK Danmark A/S  
Phone: +45 86 80 36 11  
Fax: +45 86 82 90 51  
E-mail: linak@linak-silkeborg.dk  
Web: www.linak.dk

Finland  
LINAK OY  
Phone: +358 10 841 8700  
E-mail: linak@linak.fi  
Web: www.linak.fi

France  
LINAK France E.U.R.L  
Phone: +33 (0) 2 41 36 34 34  
Fax: +33 (0) 2 41 36 35 00  
E-mail: linak@linak.fr  
Web: www.linak.fr

Germany  
LINAK GmbH  
Phone: +49 6043 9655 0  
Fax: +49 6043 9655 60  
E-mail: info@linak.de  
Web: www.linak.de

India  
LINAK A/S India Liaison Office  
Phone: +91 120 4531797  
Fax: +91 120 4786428  
E-mail: info@linak.in  
Web: www.linak.in

Ireland  
LINAK UK Limited (Ireland)  
Phone: +44 (0)121 544 2211  
Fax: +44 (0)121 544 2552  
+44 (0)796 855 1606 (UK Mobile)  
+35 387 634 6554 (Rep.of Ireland Mobile)  
E-mail: sales@linak.co.uk  
Web: www.linak.co.uk

Italy  
LINAK ITALIA S.r.l.  
Phone: +39 02 48 46 33 66  
Fax: +39 02 48 46 82 52  
E-mail: info@linak.it  
Web: www.linak.it

Japan  
LINAK K.K.  
Phone: 81-45-533-0802  
Fax: 81-45-533-0803  
E-mail: linak@linak.jp  
Web: www.linak.jp

Malaysia  
LINAK Actuators Sdn. Bhd.  
Phone: +60 4 210 6500  
Fax: +60 4 226 8901  
E-mail: info@linak-asia.com  
Web: www.linak.my

Netherlands  
LINAK Actuator-Systems B.V.  
Phone: +31 76 5 42 44 40 / +31 76 200 11 10  
E-mail: info@linak.nl  
Web: www.linak.nl

New Zealand  
LINAK New Zealand Ltd  
Phone: +64 9580 2071  
Fax: +64 9580 2072  
E-mail: nzsales@linak.com.au  
Web: www.linak.com.au

Norway  
LINAK Norge AS  
Phone: +47 32 82 90 90  
E-mail: info@linak.no  
Web: www.linak.no

Poland  
LINAK Polska  
LINAK Danmark A/S (Spółka Akcyjna)  
Phone: +48 22 295 09 70 / +48 22 295 09 71  
E-mail: info@linak.pl  
Web: www.linak.pl

Republic of Korea  
LINAK Korea Ltd.  
Phone: +82 2 6231 1515  
Fax: +82 2 6231 1516  
E-mail: info@linak.kr  
Web: www.linak.kr

Slovakia  
LINAK Slovakia S.R.O.  
Phone: +421 51 7563 444  
Web: www.linak.sk

Spain  
LINAK Actuadores, S.L.u  
Phone: +34 93 588 27 77  
Fax: +34 93 588 27 85  
E-mail: esma@linak.es  
Web: www.linak.es

Sweden  
LINAK Scandinavia AB  
Phone: +46 8 732 20 00  
Fax: +46 8 732 20 50  
E-mail: info@linak.se  
Web: www.linak.se

Switzerland  
LINAK AG  
Phone: +41 43 388 31 88  
E-mail: info@linak.ch  
Web: www.linak.ch - www.fr.linak.ch  
www.it.linak.ch

Taiwan  
LINAK (Shenzhen) Actuator systems Ltd.  
Taiwan Representative office  
Phone: +886 2 272 90068  
Fax: +886 2 272 90096  
E-mail: sales@linak.com.tw  
Web: www.linak.com.tw

Turkey  
LINAK İth. İhr. San. ve Tic. A.Ş.  
Phone: +90 312 4726338  
Fax: +90 312 4726635  
E-mail: info@linak.com.tr  
Web: www.linak.com.tr

United Kingdom  
LINAK UK Limited  
Phone: +44 (0)121 544 2211  
Fax: +44 (0)121 544 2552  
E-mail: sales@linak.co.uk  
Web: www.linak.co.uk

## DISTRIBUTORS

Argentina  
Novotec Argentina SRL  
Phone: 011-4303-8989 / 8900  
Fax: 011-4032-0184  
E-mail: info@novotecargentina.com  
Web: www.novotecargentina.com

Colombia  
MEM Ltda  
Phone: +[57] (1) 334-7666  
Fax: +[57] (1) 282-1684  
E-mail: servicioalcliente@memltda.com.co  
Web: www.mem.net.co

India  
Mechatronics Control Equipments India Pvt Ltd  
Phone: +91-44-28558484, 85  
E-mail: bala@mechatronicscontrol.com  
Web: www.mechatronicscontrol.com

Indonesia  
PT. Himalaya Everest Jaya  
Phone: +6 221 544 8956 /+6 221 544 8965  
Fax: +6 221 619 1925  
Fax (Sales): +6 221 619 4658  
E-mail: hejplastic-div@centrin.net.id  
Web: www.hej.co.id

Israel  
NetivTech LTD  
Phone: +972 55-2266-535  
Fax: +972 2-9900-560  
E-mail: info@NetivTech.com  
Web: www.netivtech.com

Singapore  
Servo Dynamics Pte Ltd  
Phone: +65 6844 0288  
Fax: +65 6844 0070  
E-mail: servodynamics@servo.com.sg

South Africa  
Industrial Specialised Applications CC  
Phone: +27 011 466 0346  
E-mail: gartht@isagroup.co.za  
Web: www.isaza.co.za

United Arab Emirates  
Mechatronics  
Phone: +971 4 267 4311  
Fax: +971 4 267 4312  
E-mail: mechtron@emirates.net.ae

## Terms of use

LINAK® takes great care in providing accurate and up-to-date information on its products. However, the user is responsible for determining the suitability of LINAK products for a specific application. Due to continual development, LINAK products are subject to frequent modifications and changes. LINAK reserves the rights to conduct modifications, updates, and changes without any prior notice. For the same reason, LINAK cannot guarantee the correctness and actual status of imprinted information on its products.

LINAK uses its best efforts to fulfil orders. However, for the reasons mentioned above, LINAK cannot guarantee availability of any particular product at any given time. LINAK reserves the right to discontinue the sale of any product displayed on its website or listed in its catalogues or in other written material created and produced by LINAK, LINAK subsidiaries, or LINAK affiliates. All sales are subject to the 'Standard Terms of Sale and Delivery for LINAK A/S' available on LINAK websites. LINAK and the LINAK logotype are registered trademarks of LINAK A/S. All rights reserved.