



## DL21 IC system User manual

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# Preface

Dear User,

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

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

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

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

Before our products leave the factory, they undergo full function and quality testing. Should you nevertheless experience problems with your LINAK product/system, you are always welcome to contact your local contact. LINAK subsidiaries and some distributors situated all over the world have authorised service centres, which are always ready to help you.

LINAK provides a limited warranty on its products. This warranty is, however, 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 products/systems can affect their operation and durability. The products are not to be opened by unauthorised personnel. You can review the full terms of the LINAK warranty on the LINAK website [www.linak.com/warranty](http://www.linak.com/warranty).

The User Manual has been written based on our present technical knowledge. We are constantly working on updating the information and we therefore reserve the right to carry out technical modifications.

**LINAK A/S**

## Valid for:

This User Manual is valid for the following products:

(See the first 3 - 5 characters on the label)

Columns: 2 lifting columns DL21 IC

Power supply: SMPS001, SMPS002 or SMPS006

Controls: DPA / DPB / DPH / DP1K / DPF1K / DPG1K

## Important information

Important information on LINAK® products can be found under the following headings:



### Warning!

Failure to comply with these instructions may result in accidents involving serious personal injury.



Failing to follow these instructions can result in the product being damaged or being destroyed.

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## Safety instruction



### General

Safe use of the system is possible only when the operating instructions are read completely and the instructions contained are strictly observed.

Failure to comply with instructions marked with the "NOTE" symbol may result in serious damage to the system or one of its components.



It is important for everyone who is to connect, install, or use the systems to have the necessary information and access to this User Manual. Follow the instructions for mounting – there is a risk of injury if these instructions are not followed.



The appliance is not intended for use by young children or infirm persons without supervision.



If there is visible damage to the product, do not install it.



Please note that during construction of applications in which the actuator is to be fitted, there must be no possibility of personal injury, for example squeezing of fingers or arms.



Only the power supply type SMPS001, SMPS002 or SMPS006, shall be used with the system.

The power supply shall not be covered while operating to allow sufficient cooling of this appliance.

Furthermore take care about the connecting wires from the power supply to the DL21 IC system, don't damage this by overrun.



Assure free space for movement of the application in both directions to avoid blockades.



The appliance is only to be used with the power supply unit provided with the appliance.

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## Safety issues



The builder of the equipment shall ensure that the use of the component complies with relevant standards – like the Machine Directive. Care must be taken to avoid squeezing of cables as it can cause movement of the system!



The SMPS001 / SMPS002 / SMPS006 must not be packed in heat insulating material, but must be placed so that it can emit waste heat to the surroundings. There are no ventilation holes to consider, the SMPS emits heat through its surface.



Only the power supply type SMPS001, SMPS002 or SMPS006, shall be used with the system.

## **Before installation, re-installation, or troubleshooting**

- Stop the DL
- Pull out the mains plug.
- Relieve the DL of any loads, which may be released during the work.

## **Before start-up**

- Make sure that the system has been installed as instructed in this User Manual.
- Make sure that the voltage of the control box is correct before connecting the system to the mains.
- System connection. The individual parts must be connected before connecting the control box to the mains. See the User Manual for LINAK actuators, if necessary.

## **During operation**

- If the control box makes unusual noise or smells, switch off the mains voltage immediately.
- Take care that the cables are not damaged.
- Unplug the mains cable on mobile equipment before moving it.
- The products must only be used in an environment, that corresponds to their IP protection.

## **Misc.**

The actuator system has a sound level below 55 dB (A) in typical applications.

Updated manuals and declarations can always be found here:  
[www.linak.com/deskline](http://www.linak.com/deskline)

### **Only for EU markets**



This appliance can be used by children aged from aged 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.



Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

### **Only for Non EU markets**



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, sensory 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.

### **Misuse**



Do not overload the actuators – this can cause danger of personal injury and damage to the system.



Do not use the actuator system for lifting persons. Do not sit or stand on a table while operating – risk of personal injury.



Do not use the system in environments other than the intended indoor use



# Repairs

In order to avoid the risk of malfunction, all DESKLINE® repairs must only be carried out by authorised LINAK service centres or repairers, as special tools must be used and special gaskets must be fitted. Products under warranty must also be returned to authorised LINAK service centres.

Further information on DESKLINE warranty can be found on the LINAK website [www.linak.com/warranty](http://www.linak.com/warranty).



## Warning!

If any of the DESKLINE® products are opened, there will be a risk of subsequent malfunction.



## Warning!

The DESKLINE® systems do not withstand cutting oil.

### DECLARATION OF INCORPORATION OF PARTLY COMPLETED MACHINERY

LINAK A/S  
Smedevænget 8  
DK - 6430 Nordborg

Herewith declares that LINAK DESKLINE® products as characterized by the following models and types:

**Control Boxes:** CBD65a000b0A-c09 (Where -a: can be P, C or H, -b: can be 2, 3 or 4 and -c: can be 0 or 7)

**Linear Actuators:** LA31

**Built in actuator(s):** DB5, DB6, DB14,

**Lifting Columns:** DL1A, DL4S, DL2, DLS, DL6, DL7, DL8, DL9, DL10, DL11, DL12, DL14, DL15, DL16, DL17, DL18, DL19, DL20, DL21

**Desk Panels:** DPA, DPB, DPH, DPF1K, DPF1M, DPF2K, DPF3K, DPF1C, DPF1D, DPF1U, DPF1W, DPF4T, DPG1K, DPG1M, DPG1B, DPG1C, DPT, DP1V01, DP1CS, DP1K, DP1U, DP2K, DP3K, DPN, DPWA

**Accessories:** BLE2LIN002, BLE2LIN003, DESK SENSOR 1, USB2LIN, DCConnector

complies 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*.

1.1.2 a) Special use\*

1.1.2 b) Selection of the most appropriate methods\*

1.1.2 c) Foreseeable misuse\*

1.1.2 d) Operator constraints due to the use of personal protective equipment\*

1.1.3 Materials and products\*

1.2.1 Safety and reliability of control systems

1.2.2 Control devices. Shape, readability, overview\*

1.2.3 Starting\*

1.2.4 Stopping\*

1.5.1 Electricity supply

1.5.10 Radiation. EMC. Emission of electromagnetic radiation, X-rays, γ-rays\*

1.5.11 External radiation\*

\*need to be further evaluated in the end product

We confirm that prior to market introduction the relevant technical documentation is compiled in accordance with part B of Annex VII and the assembly instruction pursuant to Annex VI.

This documentation or part hereof will be transmitted by post or electronically to a reasoned request by the national authorities.

The products mentioned in this document are to be combined for use in height adjustable furniture.

**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, 2020-10-28

LINAK A/S  
Dragan Macura,  
Regulatory Compliance Manager  
Desklina and Homeline Segments  
Authorized to compile the relevant technical documentation

Original Declaration

# DECLARATION OF CONFORMITY

LINAK A/S  
Smedevænget 8  
DK - 6430 Nordborg

hereby declares that LINAK Actuator System composed of:

Lifting Column with integrated control, DLIC Master: DLXXXXXXMXXXXXX or  
DLXXXXXXMXXXXXX

And

Passive Actuators, DLIC Slave DLXXXXXSXXXXX or  
DLXXXXXSXXXXX

And

Control panel DP1C, DP1K, DPT, DPB, DPF, DP1L, DP1V, DPA, DPH, DP1U,  
WDPL1

complies with EMC Directive: 2014/30/EU according to following standards:  
EN 61000-6-1:2007, EN 61000-6-3:2007, EN 55022:2010 Class B

complies with Low Voltage Directive 2006/95/EC according to the standards:  
EN 60335-1:2012

complies with RoHS2 Directive 2011/65/EU according to the standard:  
EN 50581:2012

And

RF Control: RFRL00x, HB1xRF3000, HB2xRFx000; RFT000

complies with the Radio Equipment Directive 2014/53/EU:  
EN 300220-2:2006, EN 61000-6-1:2007, EN 61000-6-3:2007,  
EN 60335-1:2012, EN 62311:2008

complies with RoHS2 Directive 2011/65/EU according to the standard:  
EN 50581:2012

Nordborg, 2017-08-25



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

# Declaration of conformity

## DECLARATION OF CONFORMITY

**LINAK A/S**  
Smedevænget 8  
DK - 6430 Nordborg

hereby declares that LINAK Switch Mode Power Supply, type SMPS006

complies with the EMC Directive: 2014/30/EU according to following standards:  
EN 61000-6-1:2007, EN 61000-6-3:2007

complies with Low Voltage Directive 2014/35/EU according to the standard:  
EN 61558-2-16:2009

complies with RoHS2 Directive 2011/65/EU according to the standard:  
EN 50581:2012

This declaration of conformity is issued under the sole responsibility of the manufacturer

Nordborg, 2020-02-24



**LINAK A/S**  
Dragan Macura,  
Regulatory Compliance Manager  
Deskline and Homeline Segments  
Authorized to compile the relevant technical documentation

Original Declaration

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The RoHS mark is only applicable for the end product. Therefore, it must be obtained by the manufacturer of the end products. LINAK® can, however, supply the required material information on our products.

For more information, visit: <https://www.linak.com/about-linak/csr/declarations/>

or contact: [chemicalcompliance@linak.com](mailto:chemicalcompliance@linak.com)

# Misc. on the DESKLINE® DL21 IC

This system is a DESKLINE system developed for desks applications ranging from industry to office desks and for indoor use. Do not use it in industrial kitchens or in other enviroments that have to be cleaned with aggressive detergents. Do not bolt the legs to the floor so that free movement is prevented. This could cause serious damage to the legs in fault situations.

## Warranty

This DESKLINE product is subject to warranty pursuant to the terms of LINAK DESKLINE Warranty Paper, available on the LINAK website [www.linak.com/warranty](http://www.linak.com/warranty).

## Maintenance

Clean dust and dirt on the outside of the system at appropriate intervals and inspect them for damage and breaks. Inspect the connections, cables, and plugs and check for correct functioning as well as fixing points.

## Service of double-insulated products:



Class II

A Class II or **double insulated** electrical appliance is one which has been designed in such a way that it does not require a safety electric earth connection (US: ground). The basic requirement is that no single failure can result in dangerous voltage becoming exposed so that it might cause an electric shock and that this is achieved without relying on an earthed metal casing. This is usually achieved at least in part by having two layers of insulating material surrounding live parts or by using reinforced insulation. There is no earthing/grounding means provided on the product, and no earthing/grounding means is to be added to the product. In Europe, a double insulated appliance must be labelled "Class II", "double insulated" or bear the double insulation symbol (a square inside another square). Servicing a double-insulated product requires extreme care and knowledge of the system, and is to be done only by qualified service personnel. Replacement parts for a double-insulated product must be identical to the parts they replace.



**Cleaners and disinfectants must not be highly alkaline or acidic (pH value 6-8).**

# ETL-marking

Due to space limitations, the complete ETL-marking demands are not represented on the marking plates.  
The full ETL Recognized Component markings are shown here.



C/N 120690  
Conforms to UL962  
Cert. to CSA Std. C22.2 No. 68-09  
ETL Recognized Component mark for Canada and United States



C/N 9901916  
Conforms to UL962  
Cert. to CSA Std. C22.2 No. 68-09  
ETL Recognized Component mark for Canada and United States



C/N 4008003  
Conforms to UL962  
Cert. to CSA Std. C22.2 No. 68-09  
ETL Recognized Component mark for Canada and United States



C/N 4008004  
Conforms to UL962  
Cert. to CSA Std. C22.2 No. 68-09  
ETL Recognized Component mark for Canada and United States



C/N 4008005  
Conforms to UL962  
Cert. to CSA Std. C22.2 No. 68-09  
ETL Recognized Component mark for Canada and United States



C/N 4008671  
Conforms to UL962  
Cert. to CSA Std. C22.2 No. 68-09  
ETL Recognized Component mark for Canada and United States



C/N 4009507  
Conforms to UL962  
Cert. to CSA Std. C22.2 No. 68-09  
ETL Recognized Component mark for Canada and United States

## Description of the DESKLINE® DL21 IC

Each DESKLINE® DL21 IC lifting unit is equipped with a motor, and parallel/memory drive is ensured by means of software in the master column that also takes account of oblique load on the desk.

### Application of the DESKLINE® DL21 IC:

Irrespective of the load the **duty cycle 10 %  $\approx$  2 minutes continuous use at full load, followed by 18 minutes pause** stated in the data sheets, must **NOT** be exceeded as this will result in a superheating of the motor, the brake and the spindle nut. Exceeding the duty cycle will result in a dramatic reduction of the life of the system.

A typical DL IC system consists of:

- 2 lifting columns: DL21 IC (one Master and one Follower)
- Power supply SMPS001, SMPS002 or SMPS006
- Desk panel DPA, DPB, DPH, DP1K, DPF1K or DPG1K
- Exchangeable cables

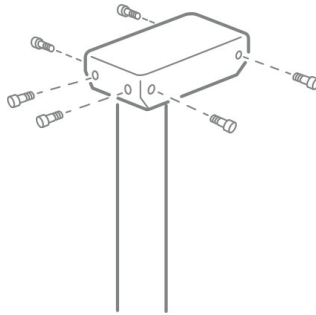
# Installation

## Mounting the DL21 IC

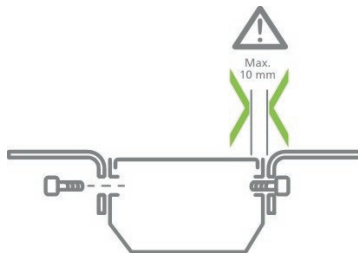
### Mounting the motor housing

The motor housing is supplied with six M6 threaded holes for mounting on the top frame.

1. Mount motor housing on top frame using six M6 screws with the following specifications:  
Quality: Min. grade 8.8  
Length: Max. 10 mm (plus top frame thickness). The bolt must not go further than max. 10 mm into the motor housing
2. Fasten screws thoroughly (torque: max. 7.5 Nm).



Always use six M6 bolts for mounting the motor housing on the top frame



Mounting bolts must not go further than max. 10 mm into the motor housing



Sufficient stability of the desk is only obtained if all six M6 screws are used for mounting the motor housing on the top frame. Tests with fixing the motor housing using only four M6 screws have proved that the torsional stability of the desk this is insufficient.



LINAK recommends using the DL21 IC DESKLINE® system in push applications with the motor housing mounted upwards.

## Mounting the feet

The DL21 IC bottom plate is supplied with four M6 and two M8 threaded holes.

1. Mount column bottom on desk feet using four M6 or two M8 screws with the following specifications:

Quality: Min. grade 8.8

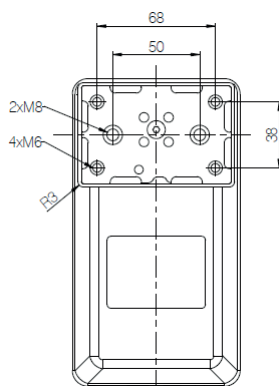
Length: Min. 10 mm (plus foot thickness);

Max. 16 mm (plus foot thickness) for M6

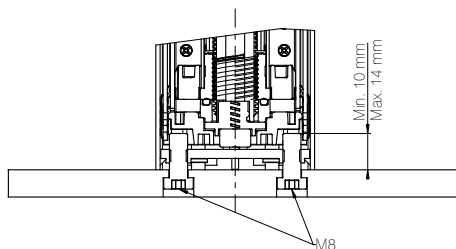
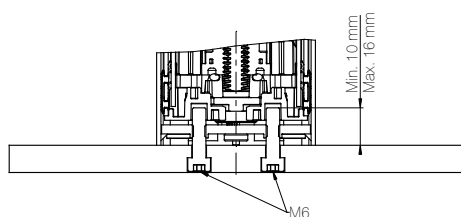
Max. 14 mm (plus foot thickness) for M8

2. Fasten screws thoroughly (torque: max. 10 Nm).

The holes in the foot must be sufficiently larger than  $\varnothing 6/\varnothing 8$  to ensure space for the screw heads to be screwed fully into the foot.



DL21 IC bottom plate



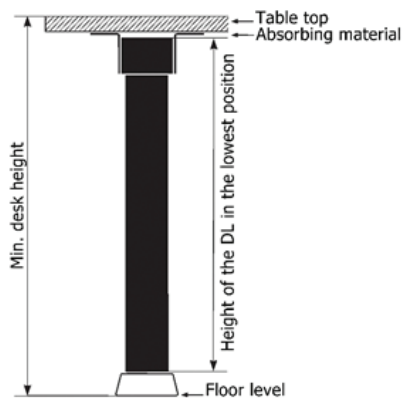
Column bottom mounted on desk foot (left: M6; right: M8)



## Mounting of the tabletop

The sound from the lifting column spreads as vibrations to the tabletop which amplifies the sound. This can, however, be reduced.

1. Place vibration/shock-absorbing material between tabletop and top frame.

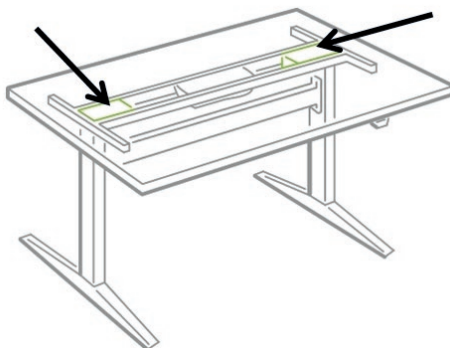


Assembled desk

## Placing the monitor

Placement of a monitor directly above the motor housing may cause malfunction of the monitor.

Magnets inside the motor may interrupt the picture on the monitor depending on distance and type of monitor. If this is the case, the problem may be solved by placing an iron plate/tube or another magnetic material, somewhat larger than the motor housing, between the motor and the tabletop.



Recommended placement of an iron plate/tube or another magnetic material

**Connection:**

Items required:



**Motor cable**



**Desk panel (example)**



**SMPS + cable**

1. Connect the master and follower columns using the motor cable.
2. Mount the desk panel onto the desk and connect it to the master column.
3. Connect the SMPS to the master column and to the mains.



## Accessories

### Ordering accessories

Order from your nearest LINAK® contact, distributor or subsidiary.

### Accessories

Please contact your nearest LINAK contract, distributor or subsidiary.



### Warning!

By unauthorised opening of the system there is a risk that it may malfunction at a later date.

### Spare parts

Please contact your nearest LINAK contact for information on spare parts.

## Disposal of LINAK product

As LINAK customers often ask us how our products can be disposed or scrapped we have prepared this guide that enables a classification to different waste fractions for recycling or combustion.

### Guide

We recommend our products to be disassembled as much as possible and divided into different waste groups for recycling or combustion.

For example, waste can be sorted into metals, plastics, cable scrap, combustible material, and recoverable resources.

Some of these main groups can be further divided into subgroups; e.g. metal can be divided into steel/aluminium/copper and plastic can be divided into ABS/PA/PE/PP.

As an example, the table below breaks down the different components in LINAK products to various recycling groups:

Product	Components	Recycling group
<b>Columns/ Actuator :</b>	Spindle and motor Plastic housing Cable PCB boards	Scrap Plastic recycling or combustion Cable scrap or combustion Electronics scrap
<b>Control Box :</b>	PCB boards Plastic housing	Electronics scrap Plastic recycling or combustion
<b>Handset/Control :</b>	Plastic housing Cable PCB board	Plastic recycling or combustion Cable scrap or combustion Electronics scrap

By now almost all our casted plastic parts are supplied with an interior code for plastic type and fibre content, if any.

## Main groups of disposal

Product main groups	Metal scrap	Cable scrap	Electronics scrap	Plastic recycling or combustion	Comments
<b>DL21 IC</b>	X	X	X	X	
<b>DP</b>		X	X	X	
<b>SMPS</b>			X	X	

## Disposal of batteries

Details regarding safe disposal of used and leaking batteries:

Batteries should be disposed in accordance with appropriate federal, state and local regulations. LINAK recommends that used or leaking batteries are disposed through local recycling system. Please do not throw used or leaking batteries in normal household waste or in nature. This will cause damage to the environment.

### How to deal with leaking batteries

Leaking batteries should be disposed as described above.

If leaking batteries are discovered in the products, the batteries must be removed immediately to minimise damage to the product. If leaking batteries are left in the product it might become defect.

It is recommended to use plastic gloves when handling leaking batteries. The contents of leaking batteries can cause chemical burns and respiratory irritation.

If exposed to the contents of a leaking battery, please wash with soap and water. If irritation persists, please seek medical attention. In case of eye contact, please flush eyes thoroughly with water for 15 minutes and seek medical attention."

# Labels

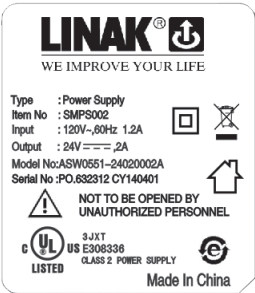
Label for DL21 IC



Label for SMPS001



Label for SMPS002



Label for SMPS006

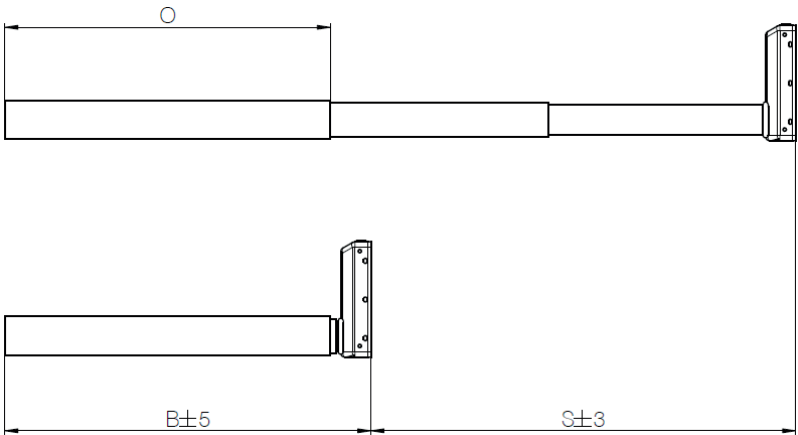


DRAWING APPENDIX

DL21 IC



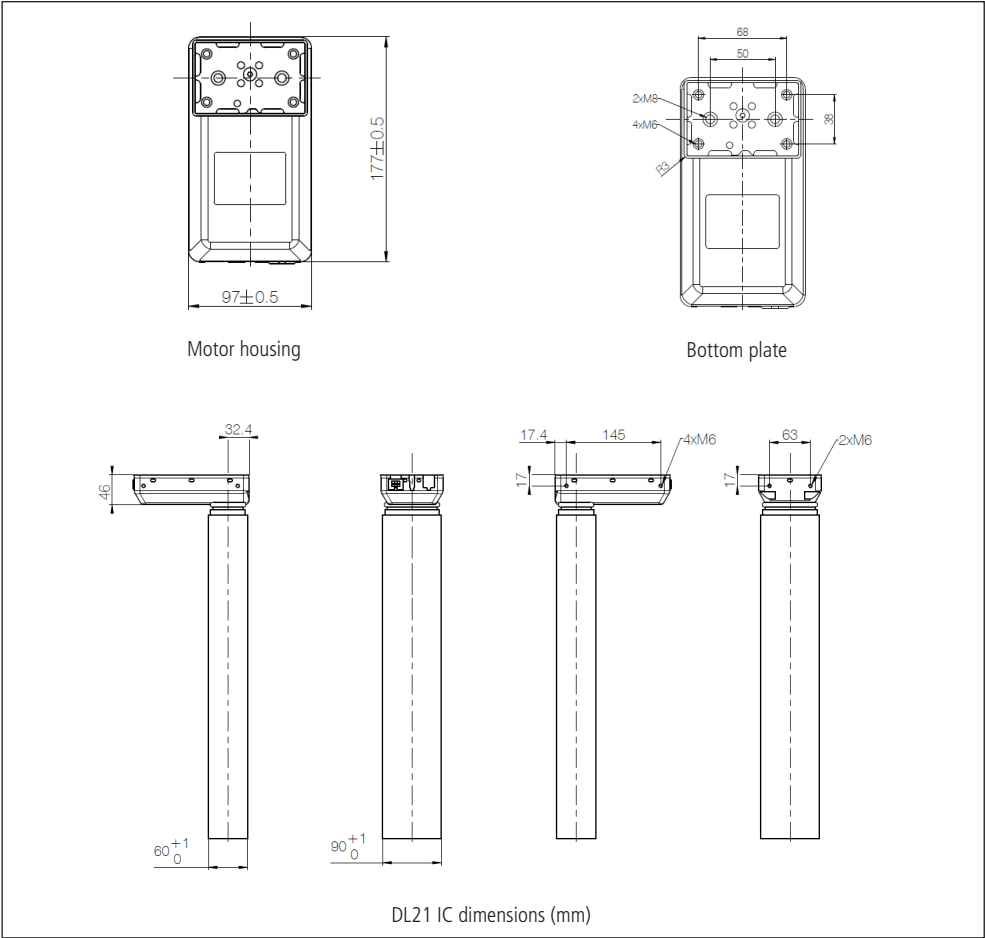
All measurements are without powder coating.



Version	Combination code	B (Built-in length) [mm]	S (Stroke length) [mm]	O (Outer profile length) [mm]
EU	DL21xxxxx650560	560	650	498
BIFMA	DL21xxxxx665518	518	665	456

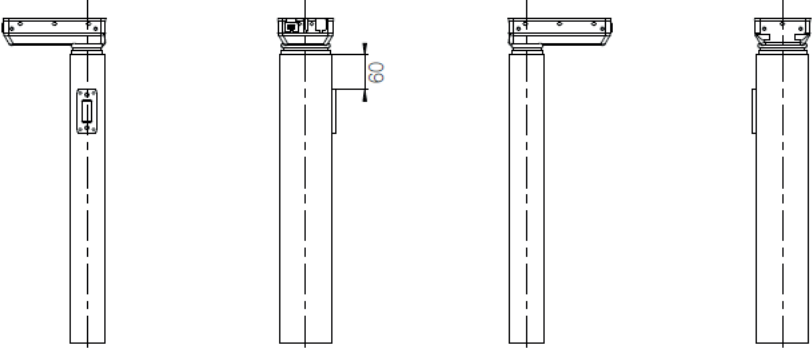
DL21 built-in length, stroke length, and outer profile length (mm)

DL21 IC motor housing and profile dimensions (mm)

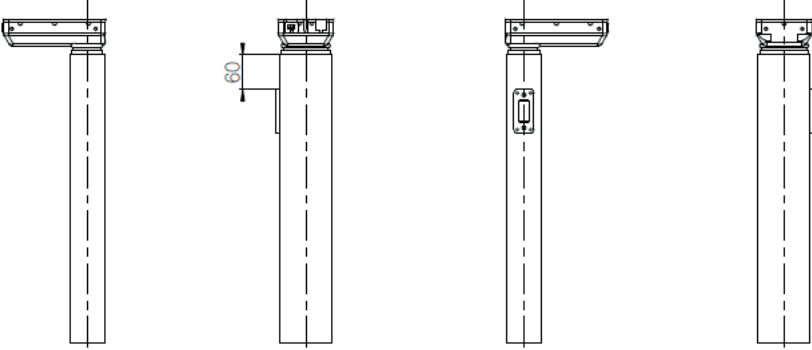


DL21 IC Bracket options

Bench left



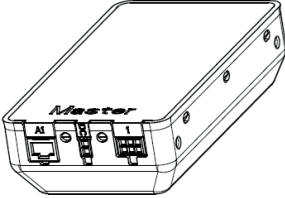
Bench right



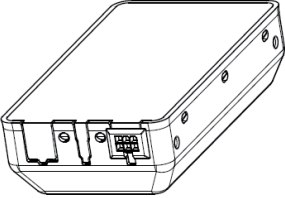
Combination code	Bench left	Bench right
DL21xxLxxSxxxxxx	X	
DL21xxRxxMxxxxxx		X

Bracket options (dimensions in mm)

Sockets



IC Master

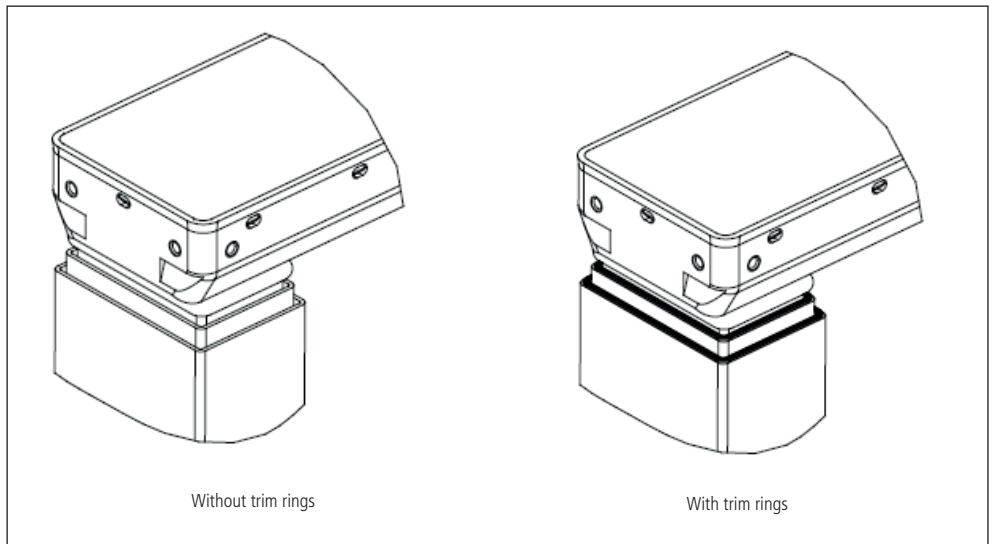


IC Follower

Combination code	Type
DL21xxxxxMxxxxxx	IC Master
DL21xxxxxSxxxxxx	IC Follower

Socket combination





## LINAK APPLICATION POLICY

The purpose of the application policy is to define areas of responsibilities in relation to applying a LINAK product defined as hardware, software, technical advice, etc. related to an existing or a new customer application.

LINAK products, as defined above, are applicable for a wide range of applications within the Medical, Furniture, Desk and Industry areas. Yet, LINAK cannot know all the conditions under which LINAK products will be installed, used, and operated, as each individual application is unique.

The suitability and functionality of the LINAK product and its performance under varying conditions (application, vibration, load, humidity, temperature, frequency, etc.) can only be verified by testing, and shall ultimately be the responsibility of the LINAK customer using any LINAK product.

LINAK shall be responsible solely that LINAK products comply with the specifications set out by LINAK and it shall be the responsibility of the LINAK customer to ensure that the specific LINAK product can be used for the application in question.

## FACTORIES

### China

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

### Denmark - Headquarters

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Phone: +45 73 15 15 15  
Fax: +45 74 45 80 48  
Fax (Sales): +45 73 15 16 13  
www.linak.com

### Slovakia

LINAK Slovakia s.r.o.  
Phone: +421 51 7563 444  
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### Thailand

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www.linak.com

### USA

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Fax: +1 502 253 5596  
www.linak-us.com  
www.linak-latinamerica.com

## SUBSIDIARIES

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