

# Baselift™ (BASE1) 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)

Accessories: Baselift

Control boxes: CBD6S 200W or CBD6S 300W

Controls: DP1U/DPF1M (if memory function is required),  
DP1C//DPT/DPF1C (if memory function and display are required) or  
DPA/DPB/DP1K/DP1V/DPFK (if only up/down is required) or  
DPF1D (if display is required).

### Intended use:

The product is intended for height adjustment (up/down drive) of kitchen applications in kitchens. The Baselift™ must be mounted in the base below the kitchen cupboards. The product should always be used in upright position (see page 19) and only in the application for which it is intended. The maximal load is stated on the product label.



The kitchen producers should always prepare a user manual for their kitchen applications in which a risk analysis of the entire kitchen is made and stated. This Baselift™ user manual cannot replace the kitchen producer's user manual.

## 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.

---

## Safety instructions



### 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 persons, 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.



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



Min. space between the height adjustable kitchen application and surrounding elements: 500 mm.



Max. space between the height adjustable kitchen application and walls: 7 mm. (smooth, flat walls; no protruding / cantilevered components)

The furniture manufacturer must prepare and keep a risk/danger analyze for the complete application, e.g. according to the following standards: EN ISO 12100:2010 - General principles for design - Risk assessment and risk reduction; EN ISO 14121-2 – Risk assessment - Practical guidance and examples of methods

---

### **Before installation, reinstallation or troubleshooting**

- Stop the actuator
- Switch off the power supply and pull out the mains plug.
- Relieve the actuator 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 noises 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.

### **Misc.**

The actuator system has a sound level below 55dB(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.



It is the operator's responsibility to ensure that there is free space for the application to move without risk for the operator or bystanders before operating the application.

### **Misuse**



The load on each actuator must never exceed the max. load stated on the product label. The actuator should be used in the application only for which it is intended.



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	CBD6S
Linear Actuators	DB5, DB6, DB7, DB9, DB12, DB14, DB16, LA23, LA31
Lifting Columns	DL1A, DL2, DL4S, DL5, DL6, DL7, DL8, DL9, DL10, DL11, DL12, DL14, DL15, DL16, DL17, DL19, BASE1
Desk Panels	DPA, DPB, DPH, DPF, DPG1K, DPG1M, DPG1B, DPG1C, DPT, DP1, DP1CS, DP1K, DP1V, DP1U
RF Controls	HB10RF, HB20RF, RFT, RFRL
Accessories	BA001, SLS, Kick & Click

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 that 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, 2017-12-08

### LINAK A/S

John Kling, B.Sc.E.E.  
Certification and Regulatory Affairs  
Authorized to compile the relevant technical documentation



## Misc. on the DESKLINE® system

### 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).**

# Description of the DESKLINE® Baselift™ system

## A Baselift™ system consists of:

- Baselift units
- CBD6S
- Desk Panel (typically DPH or DPT).

## Baselift:

The number of Baselifts units used in an application depends on the size of the application. The Baselift is not designed to be a standalone product and it is not designed to absorb bending moment from the application. As a rule of thumb, a distance of 600 mm between the two Baselift units is the maximum distance, when using a 19 mm MDF board under the kitchen cupboards. This is to get enough stability in all directions. The kitchen manufacturer must determine the exact distance between the Baselifts units according to their specification of their board and cupboards.

## CBD6S:

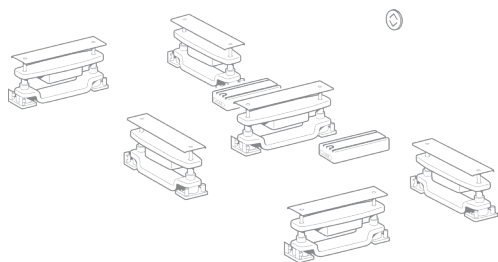
The number of the control boxes CBD6S used in an application depends on the number of Baselifts units used. The CBD6S 300W can be connected with maximum 4 units, the CBD6S 200W with maximum 2 units. If more Baselifts units are needed, the system must be a multi-parallel system. A maximum of 16 300 W can be connected with maximum 4 units, the CBD6S 200 W with maximum 2 units. If more Baselift units can be connected with 4 x CBD6S 300 W. Use a serial cable for connection between the control boxes, see combination code for versions.

## Desk Panels

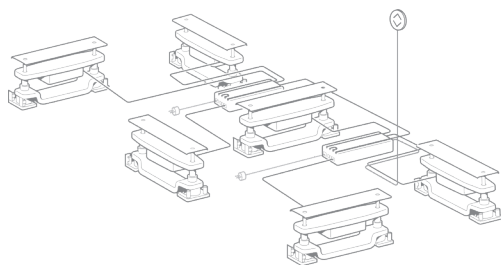
All DESKLINE® Desk Panels can be used, but the ones preferred are the DPH and the DPT, as customers often want the desk panel to be integrated in the tabletop.

## Mounting guidelines for the Baselift™ system (example):

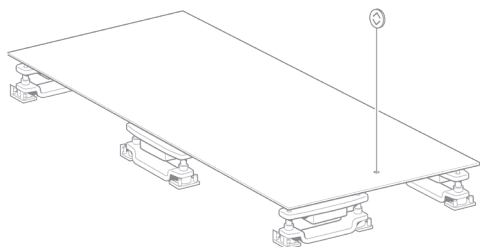
A typical kitchen of approx. 2 m length and 1 m depth requires 6 Baselift units. The number of units is not only due to lifting capacity, but also to gain enough stability in the application. The units must be placed/positioned as shown below for maximum stability.



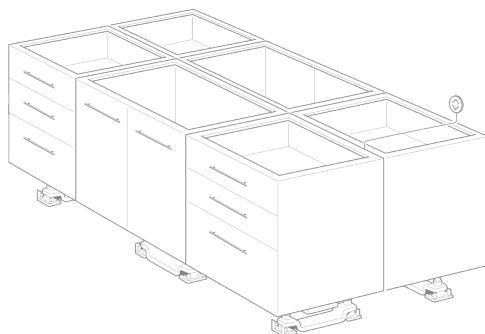
Place the Baselifts units on the floor



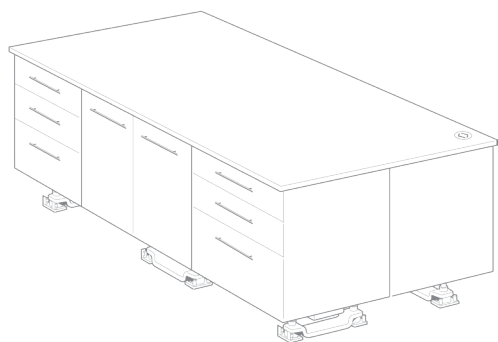
Mount all cables



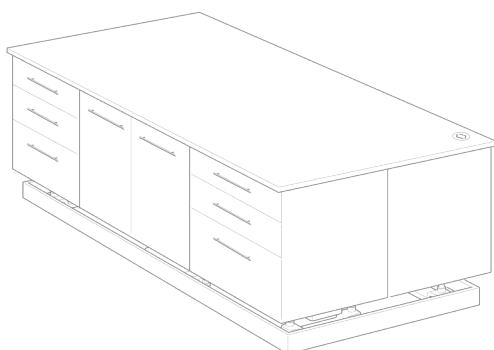
Place the plate on top of the Baselift units



Mount the cupboards on the plate



Mount the kitchen plate and connect the Desk Panel



Before use. Mount the 2 parts for the base cover.

# Mounting procedure

The important thing to consider when mounting the Baselift system is that the Baselift units are even in height so they all carry the load of the kitchen. This can be done in several ways, below guidelines/procedure is one suggestion.

## 1. Before mounting:

- a. Please read the LINAK Baselift user manual carefully before mounting the system.
- b. Make sure the floor is clean before you start mounting.
- c. For optimal stability of your electric height adjustable kitchen, it is very important that you place the Baselift units correctly.

## 2. Mark the floor

- a. First, you have to measure and mark where to place the kitchen and the 6 Baselift units.
- b. Precise measurements are very important.

## 3. Connect the system

- a. Place the Baselift units on the floor.
- b. Place the two control boxes CBD6S with the cable grooves facing upwards.
- c. Place the control boxes close to the front of the kitchen for easy access in case of service
- d. To achieve the correct performance, you must divide the number of Baselift units equally between the control boxes.
- e. Plug in the motor cables in the control boxes. It is important that you start using channel no. 1, then channel no. 2 and so forth.
- f. Next, you connect the two control boxes with a serial cable for parallel drive.
- g. Then plug in the LINAK service tool in one of the control boxes.
- h. Finally, you connect to mains.
- i. We recommend you use the cable relief for less strain on the mains cable.

## 4. Initialise the system before mounting the Baselift units

- a. Initialise the Baselift system.
- b. You do this by pressing the down key on the service tool once. Within 10 seconds press the down key again and now hold the down key until the Baselift units stop completely.
- c. The system has now been initialised.
- d. The service tool can now be removed and the chosen Desk Panel can be connected.

## 5. Mount the Baselift units

- a. The mounting has 2 purposes:
  - i. The kitchen cannot tilt
  - ii. Vibrations or similar cannot move the Baselift units and cause twisting of the kitchen.
- b. Drive the Baselift units to their full stroke to get easy access.
- c. Make sure all Baselift units are even in height. If adjustment is needed, adjust the Baselift units manually, by turning the adjustment foot (max. 15 mm).
- d. Mount the Baselift units to the floor via the use of the mounting brackets.
  - i. On a wooden floor, you can mount the Baselift units by attaching the brackets to the floor with screws.
  - ii. If you have floor heating or for other reasons want to avoid drilling holes in the floor, you can use suitable glue rather than screws when mounting the Baselift units. If there is floor heating in the floor, one must observe this when mounting to avoid damages.
- e. Place the plate on top of the Baselift units. Make sure that no cables are stuck between the Baselift units and the plate and ensure that the plate is placed in the centre. The thickness of the plate is typically between 16 - 30 mm thick depending on material.
- f. Mount the Baselift units with screws.
- g. For easy access, mount the control boxes and the RF Transmitter close to the front edge.
- h. Fix cables by using self-adhesive cable ties.



All cables must be fixed to the plate to avoid any kind of squeezing during movement

- i. Please drive the Baselift units to their lowest position.

## **6. Mount the kitchen cabinets and the Desk Panel in the kitchen tabletop**

- a. Mount the kitchen cabinets.
- b. Mount the Desk Panel in the hole in the tabletop.
- c. Mount the tabletop.
- d. Test to see if the kitchen functions.

## **7. Mount the base cover**



- a. The base cover must be mounted prior to use to avoid any collision situations or squeezing.
- b. Pin the clips on the brackets.



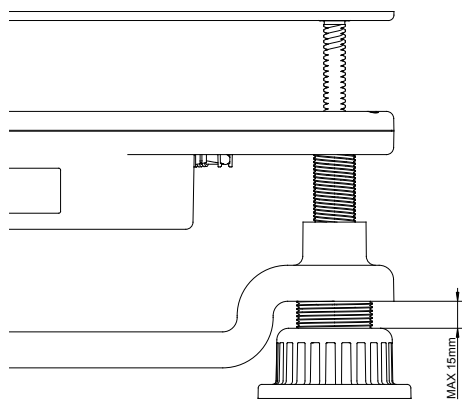
- c. Remove the protective film from the clips and mount the bottom base. For better fixing, you can choose to mount the clips with screws. Ensure that the base cover is mounted to sustain a constant load of the system.
- d. It is important to keep a bit of space between the top base and the bottom base to avoid scratches when the kitchen is driven up and down. The space can be created by adding felt pads on the back of the top base.
- e. To calculate where to fix the top base you need to take two measurements. First, you measure from the edge to the top base. Then add half the width of the base.

## **8. Make sure that no tools or other equipment has been left under the base**

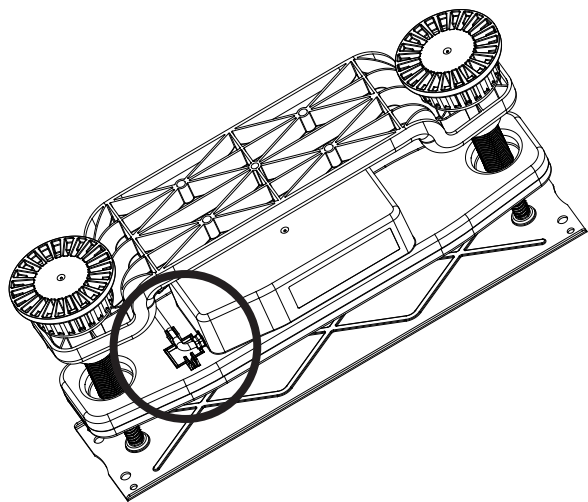
## **9. Test the function of the kitchen (full stroke in and out) to ensure everything works correctly**

You can find the mounting instruction video via [this link](#)

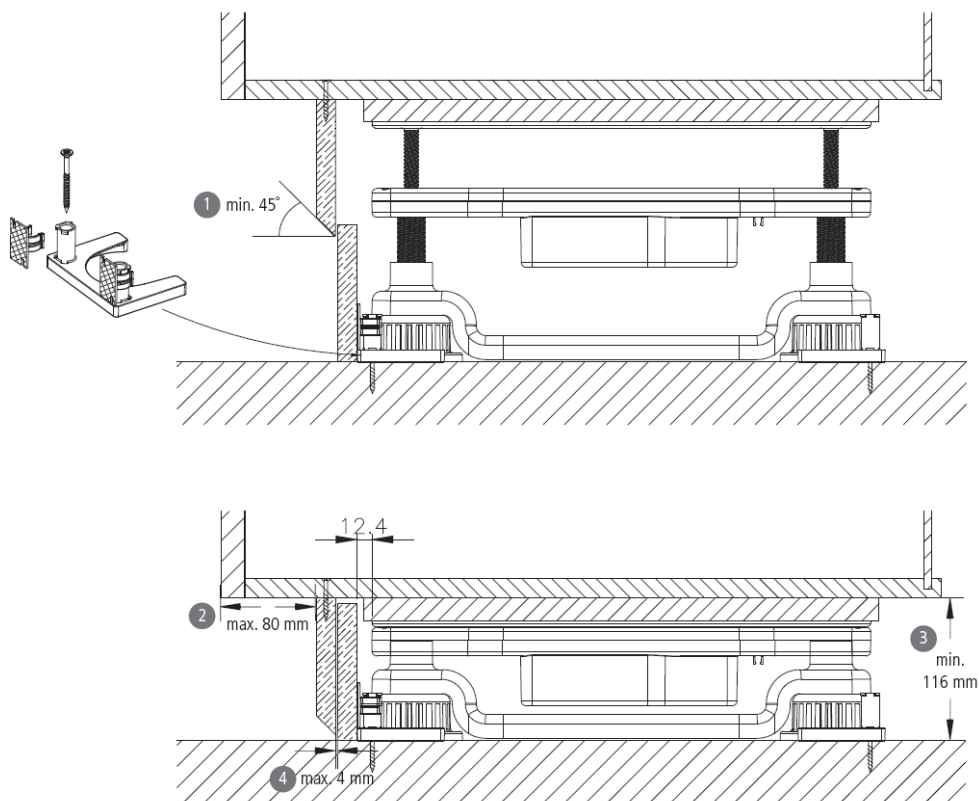
Below please find mounting illustrations to observe



Adjustment: Maximum adjustment of the foot is 15 mm



The Baselift™ cable must be fixed in the strain relief in the Baselift housing



Mount the mounting bracket on the Baselift™. The clips can be mounted on the bracket and help fix the base cover. Observe the min. distance!!



1. The bottom of the outer base cover must be cut in an angle of 45 degrees.



2. The distance between the front edge of the cupboard and the front edge of the base cover must not exceed 80 mm.



3. The height from the floor to the underside of the cupboard must be min. 116 mm.



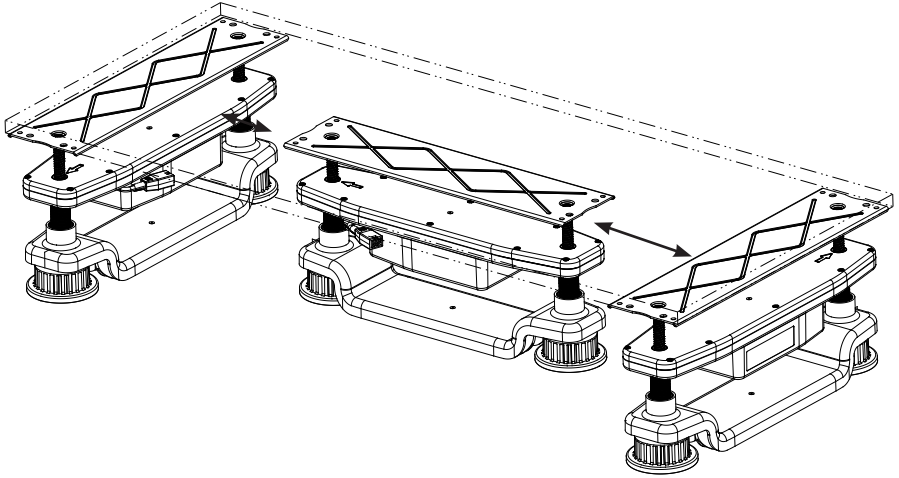
4. The distance between the outer and inner base cover must not exceed 4 mm.

### Examples of how to mount:

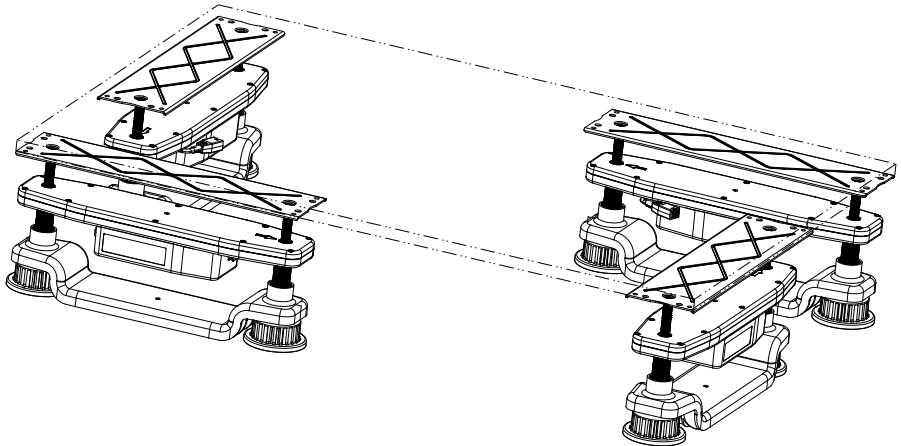
Below sketches show examples of how the Baselift system can be mounted on a plate. The distances mentioned on the sketches are to be seen as guidelines. As a rule of thumb, the distance between 2 Baselift units must never be more than 600 mm.



Please observe that the Baselift is not designed to obtain any bending moment for which reason it is important that the number of Baselift units is equivalent to the size of the application.

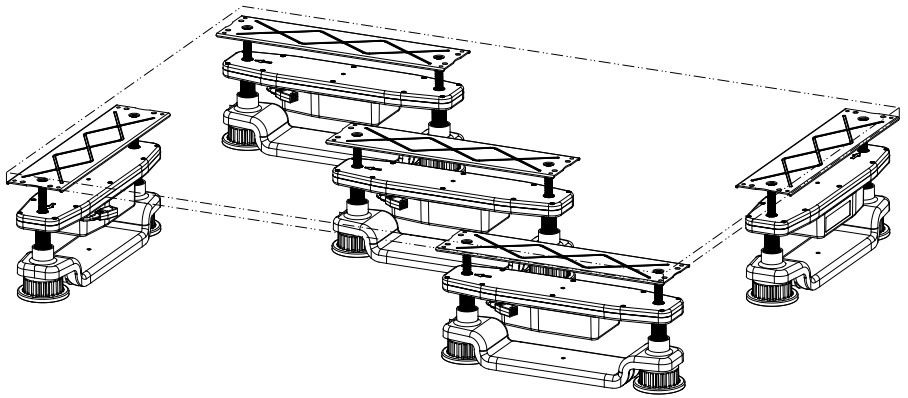


The arrows on the above drawing show the maximum distance of 600 mm

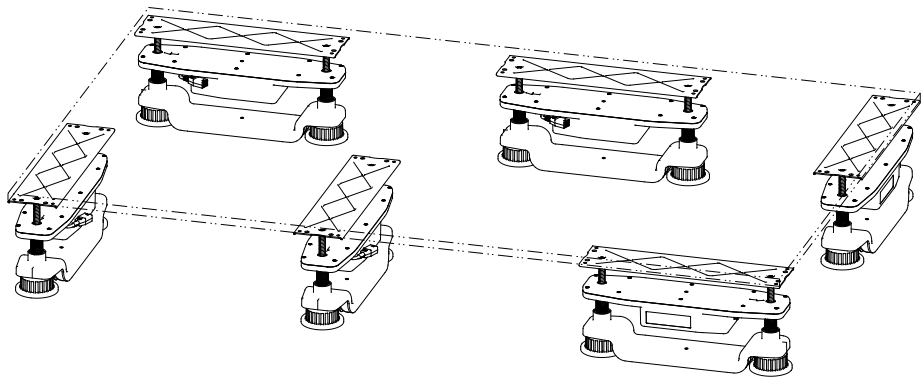


Example of how to mount a Baselift™ system with 4 units





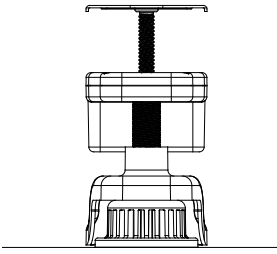
Example of how to mount a Baselift™ system with 5 units



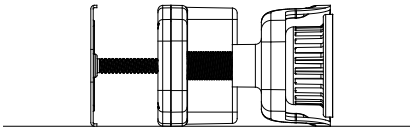
Example of how to mount a Baselift™ system with 6 units.

# Things to observe:

The Baselift™ must only be mounted standing, not on the side



Correct mounting

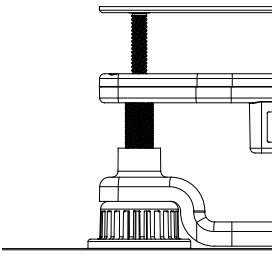


Wrong mounting

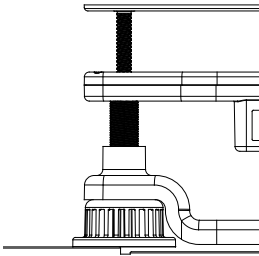


## Uneven floor

If the floor is uneven, it is very important that the bottom part of the Baselift does not touch the floor. – Only the feet (adjustable) must have contact with the floor, there must be free space underneath the Baselift



Correct mounting



Wrong mounting



## Sound level

The sound level of the Baselift™ system depends on how the Baselift units are mounted. The type of flooring has an influence on how the sound is spread and the sound will also change when the Baselift units are mounted on the plate where cupboards are mounted on top.



Be aware that the Baselift system may only be used in push applications.



The base cover must be mounted prior to use to avoid any collision situations or squeezing

## Accessories

### Ordering accessories

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

### Accessories

Please contact your nearest LINAK contact, 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
Column/ Actuator :	Spindle and motor Plastic housing Cable PC boards	Metal scrap Plastic recycling or combustion Cable scrap or combustion Electronics scrap
Control Box :	PC boards Plastic housing Cable Transformer	Electronics scrap Plastic recycling or combustion Cable scrap or combustion Metal scrap
Handset/Control :	Plastic housing Cable PC boards	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 combustin	Comments
Baselift unit	X	X	X	X	
CBD6S (SMPS)			X	X	
DPXX		X	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 systems. Please do not throw used or leaking batteries in normal household waste or in nature. This will cause damage to the enviroment.

### 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 moved 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 of leaking batteries. The contents of a 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 Baselift


**LINAK®**

GROUP HEADQUARTERS  
SMEDEVAENGET 8  
DK 6430 NORDBORG

WE IMPROVE YOUR LIFE

Type : BASELIFT1

Item No. : BASE1000ADF100100






P.O.1234567-9001 MADE BY LINAK A/S DENMARK


Max Load : Push 1500 N


Power Rate : 18 V= / Max. 10 Amp

Duty Cycle : 10 %, Max. 1 min. / 9 min. Pause

Prod. Date : 2014.03.18 S.O.7654321







NOT TO BE OPENED BY  
UNAUTHORIZED PERSONNEL

## Label for CBD6S 200W (SMPS)

**LINAK®**

GROUP HEADQUARTERS  
SMEDEVAENGET 8  
DK 6430 NORDBORG

WE IMPROVE YOUR LIFE

Item : CBD6SP00020A-009

Date : 2012.11.09

U In : 230 V~, 50 Hz

P In : 300 W

U Out: 12 V= - 40 V=

Op. : Int. 10 %, Max. 2 min. / 18 min.

S.W. P/N.: 03002000 Ver. B1.00





P.O.1234567-0001 MADE BY LINAK A/S DENMARK

0.1 W  
Standby  
Power





NOT TO BE OPENED BY UNAUTHORIZED PERSONNEL





## Label for CBD6S 300W (SMPS) up to 4 channels

**LINAK®**

GROUP HEADQUARTERS  
SMEDEVAENGET 8  
DK 6430 NORDBORG

WE IMPROVE YOUR LIFE

Item : CBD6SP00020A-709

Date : 2014.02.07

U In : 90 V - 240 V~, 48 Hz - 63 HZ

P In : 450 W

U Out: 12 V= - 40 V=

Op. : Int. 10%, Max. 2 min./18 min.

S.W. P/N.: 03002000 Ver. XXX





P.O.-0000





NOT TO BE OPENED BY UNAUTHORIZED PERSONNEL

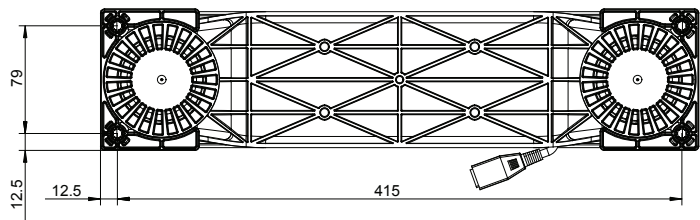


Assembled in China 01

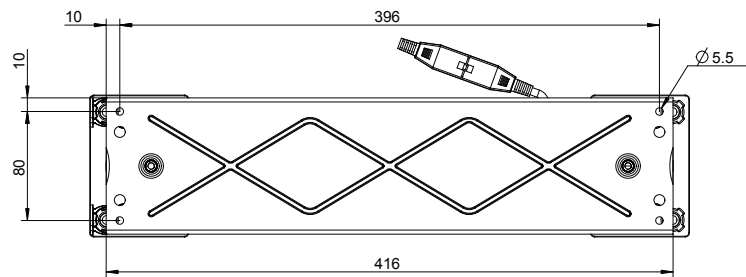
**DRAWING APPENDIX**

Baselift

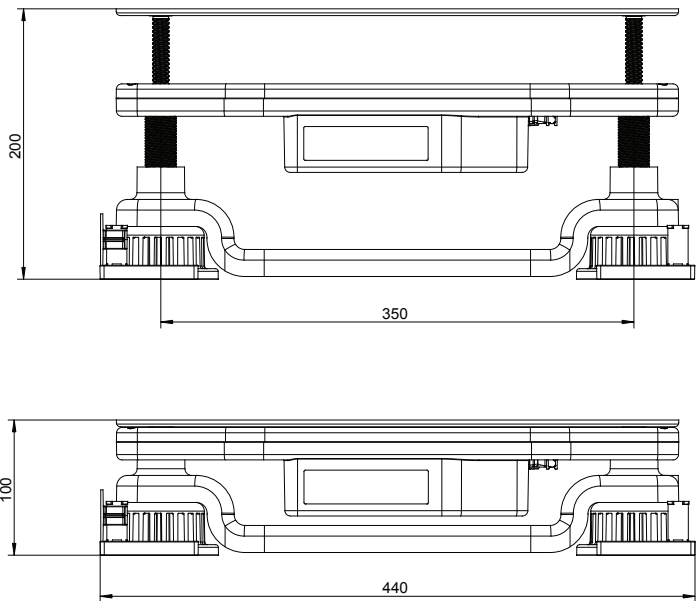
Bottom view

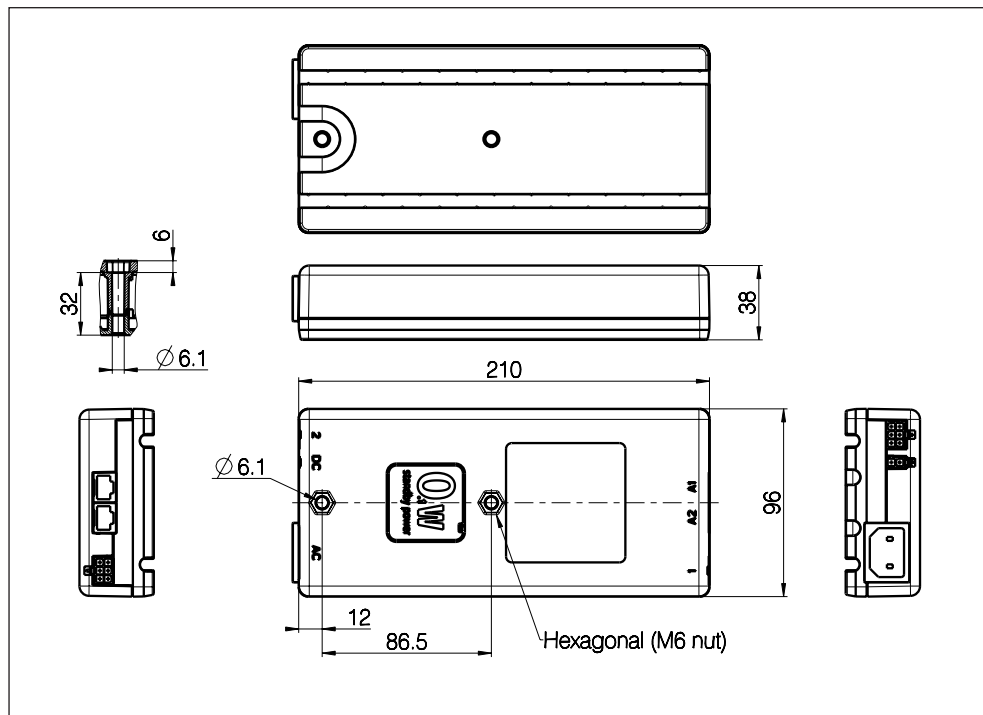


Top view

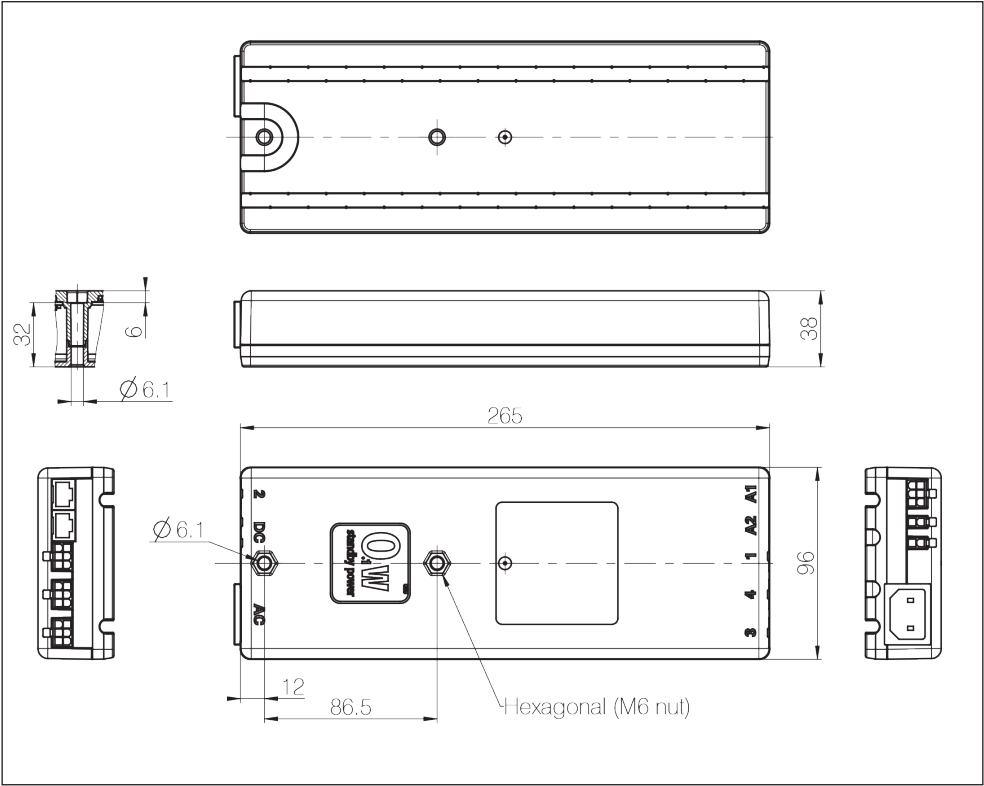


Side view









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.

# DECLARATION OF CONFORMITY

LINAK A/S  
Smedevænget 8  
DK - 6430 Nordborg

hereby declares that LINAK Actuator System composed of:

Control Box(s)            CBD6SP00020A-309  
                                  CBD6S\*000\*0A-709

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

And

Linear Actuator(s)        31, DB4, DB5, DB6, DB7, DB9, DB12, DB14, DB16, LA23 series        and / or  
Lifting Column(s)        DL1A, DL2, DL4, DL5, DL6, DL7, DL8, DL9, DL10, DL11, DL12, DL14, DL15, DL16, DL17, DL19,  
                                  BASE1 series

And

Desk Panel(s)            DP1C, DP1K, DP1L, DP1V, DP1U, DPA, DPB, DPF, DPG, DPH, DPT, WDPL1 series

complies with EMC Directive: 2014/30/EU according to following standards:  
EN 61000-6-1:2007, EN 61000-6-3:2007+A1:2011+AC:2012

complies with Low Voltage Directive 2014/35/EU according to the standard:  
EN 60335-1:2012+A11:2014

complies with RoHS2 Directive 2011/65/EU according to the standard:  
EN 55581:2012

Additional information:

The system does also comply with the standard: EN 13849-1:2015 SRP/CS Cat. B, PL = b and SRESW PL = b  
Note 1: Exempted CBD6S with SW03003007 printed on the label.

Nordborg, 2017-12-08



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

Original Declaration

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