

Ropox FlexiPlus




User manual

This manual should always be in close proximity to the product


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1. Symbols used in this manual

Warning Symbol Indication of potentially hazardous situation. If not avoided, it can result in serious injury or death.	
Caution Symbol Indication of potentially hazardous situation which may result in minor or moderate injury. It may also be used to alert against unsafe practices.	
Notice Symbol This symbol is used to notify correct use and handling of the product.	

2. General safety

	<p>This manual must be read and understood before use. Always keep this manual in close proximity of the product.</p> <p>The use, installation and service of this product must follow this manual to avoid accidents and serious personal injury.</p> <p>Never use or handle this product in other ways specified in this manual as it can result in personal safety hazards and/or cause damage to the product.</p> <p>Anyone installing and/or using this product either as operator or user should have the necessary safety information and access to this manual. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent, or similarly qualified designated person to avoid a hazard.</p>
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Do not perform repairs, disassembly, or assembly operations, add-ons, re-adjustments, or modification of the product beyond what is described in this manual. These must be carried out by Ropox or Ropox authorized personnel. Do not perform service while in use.

This appliance can be used by children aged from 8 years and above and people 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.

Do not use the product if it has defects or has become damaged before being repaired or replaced.
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 it is moved.

The products must only be used in an environment that corresponds to their IP protection.



The information in this manual is based on correct installation in accordance with installation instructions for this product.

Ropox cannot be held liable if the product is used in any way, that differs from stated in this manual and/or installation instruction.

Ropox reserve the right to amend this manual and reference documents without prior notice.

2.1 Product Unit label

ROPOX

Ropox A/S, Ringstedgade 221, DK-4700 Naestved
Tlf: +45 5575 0500, E-mail: info@ropox.dk, Web: www.ropox.dk

20XX-XX

REF XX-XXXXX-X

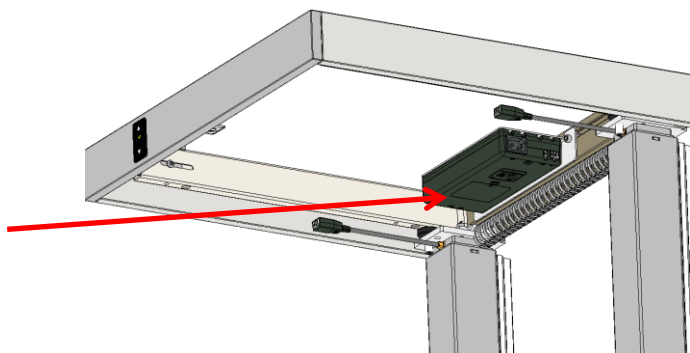
SN XXX-XXXX

U In: XXX V ~, XX Hz
I In: Max. X A

IPXX

Max load XXXkg

Mass of product XXXkg



UK CA	This product is UKCA-marked in accordance with: UK SI 2008 No. 1597 - <i>The Supply of Machinery (Safety) Regulations 2008</i> , and its amendments
CE	This product is CE-marked in accordance with: Council Directive 2006/42/EC on machinery Council Directive 2011/65/EU, RoHS
	Manufacturer name and address
	Date of production
REF	Stock number
SN	Serial number
	Consult manual before use
	Operating interval of electrically operated equipment. The use of electrical height adjustable equipment can run at maximum 1 minute, followed by a 9-minute break.
	Consult manual for important safety related information, warnings, and safety precautions.
	Do not dispose as unsorted municipal waste. Product must be returned to a designated recycling station.
	Operating temperatures may not exceed +10°C - +40°C Transport and storage temperatures may not exceed -10°C - +50°C

3. General requirements

3.1 Product information

Manufacturer	Ropox A/S Ringstedgade 221, DK-4700 Naestved +45 55 75 05 00 Email: Info@ropox.com		
Product models	Part number	Model	Configuration
	30-90xxx	60 – 300 cm	Electrical
Maximum user weight according to DS/EN 12182:2012	60 – 240cm = 100kg (220lbs) evenly distributed 245 – 300cm = 150kg (330lbs) evenly distributed Max load includes weight of tabletop and other installations		
Power supply	100-240V ~50/60Hz		
I in	3A		
Standby power	0,1 W		
Intermittence	1min use / 9min break		
Height adjustment	300mm (11.8in)		
Speed of actuation	≈ 36mm/s (1.5in/s)		
Ambient temperature range	-10 °C to +50 °C Transport and storage +10 °C to +40 °C Operation		

3.2 Product description

Ropox FlexiPlus is a height-adjustable system for tabletops or workstations. The product can be adjusted in height electrically.

3.3 Intended use

The product is intended for height adjustment of a tabletop or workstation for easier and more comfortable use by people with differing heights and statures. Standard stroke length – 300mm (11.8in), but with an option to customize stroke length between 0mm - 660mm (0 – 26in).

3.4 Intended population

Anyone who can find use in having a tabletop or workstation with an adjustable height.

3.5 Intended operator

Anyone who has read and understood this manual can use the product. Only children over the age of 8 may use the product, however, only under the supervision of an adult.

3.6 Basic safety

Ropox FlexiPlus has a built-in anti-collision system called Ropox Sicuro, where, if the product registers an increase in resistance during operation, either up or down, the legs will retract (approx. 50mm (2in)).

Additionally, it's possible to buy what's called a safety-stop. This is a safety system that works in tandem with Ropox Sicuro, that is especially sensitive and is better at registering soft material. The safety-stop is placed underneath the table, at the edge, which makes it optimal for seated users.

3.7 Non-clinical functions

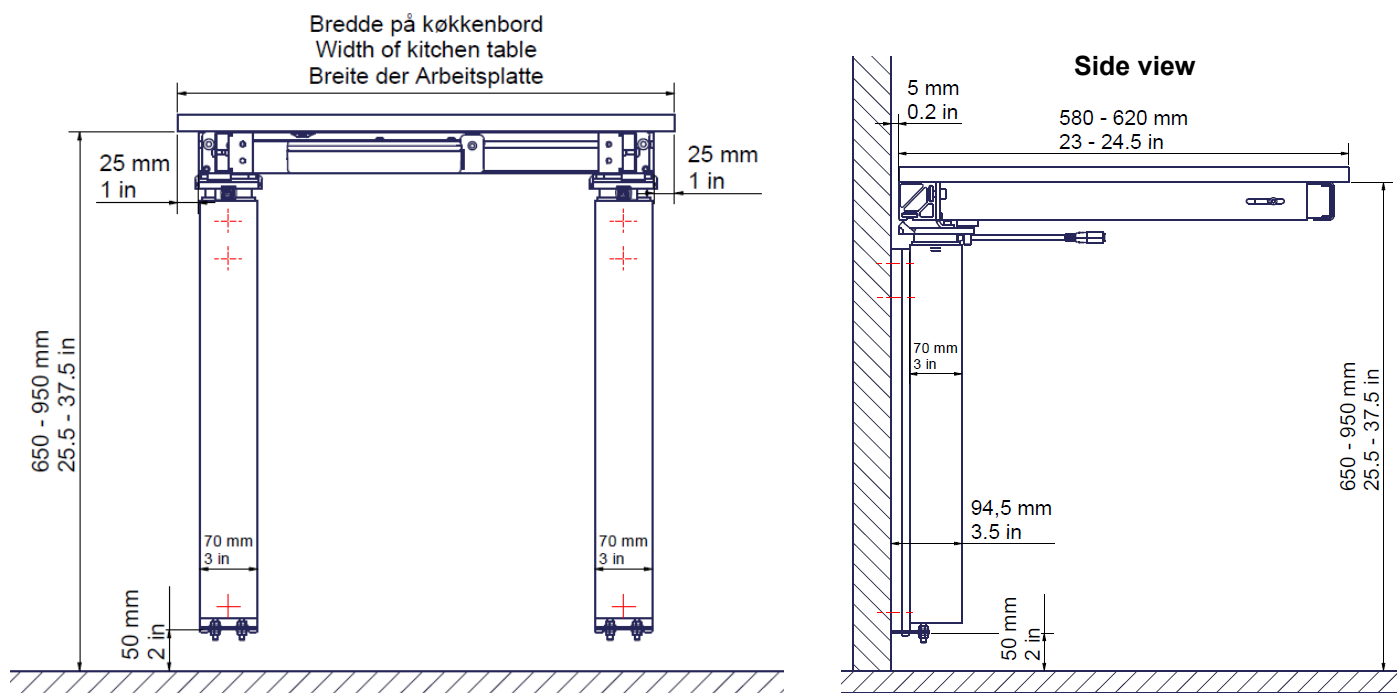
Ropox FlexiPlus is designed to make use of tabletops and worktops comfortable and easier to access for the intended population.

3.8 Product dimensions

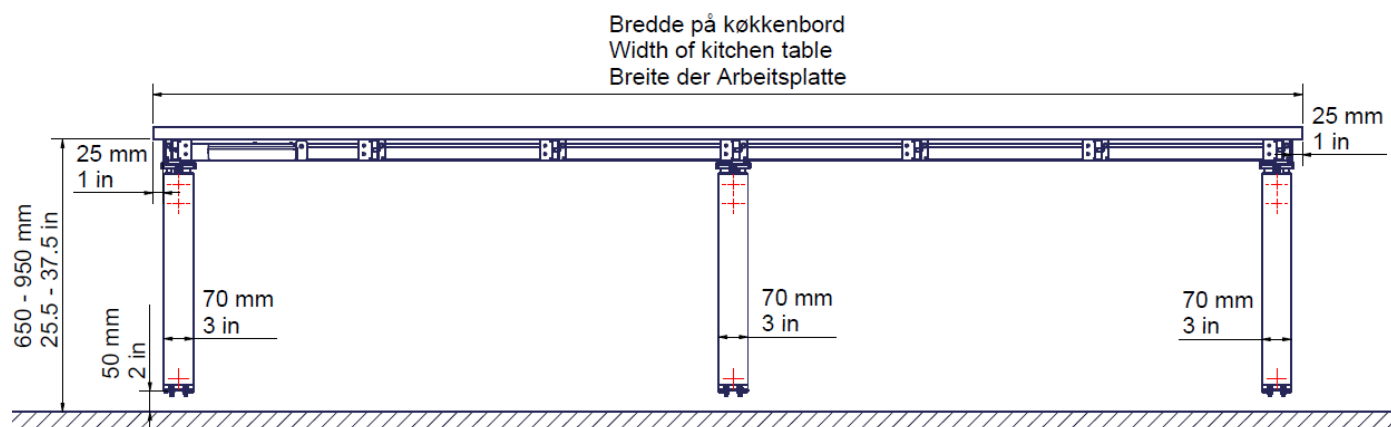
Aluminum profile is always 50mm (2in) shorter than tabletop.

It is recommended to keep 50mm (2in) of clearance below the wall bracket.

60 – 240cm (23.5 – 94.5in)



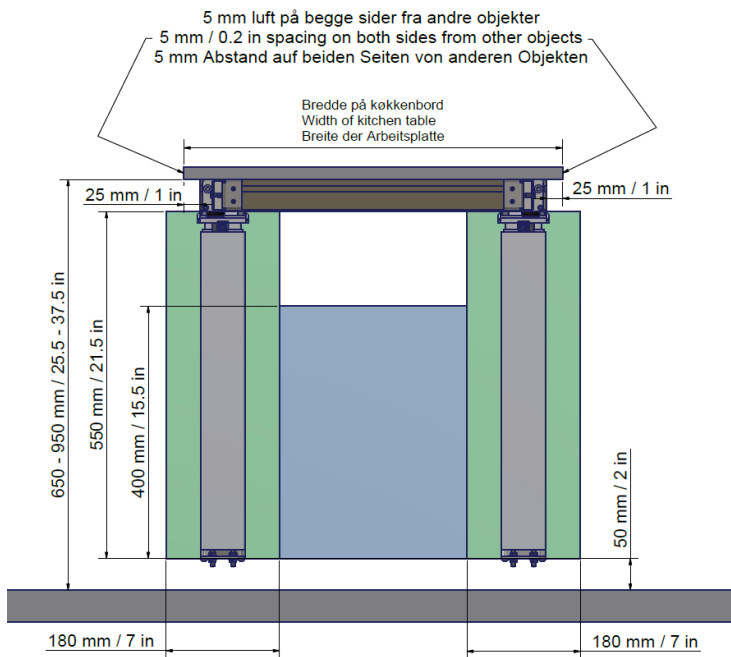
245 – 300cm (96.5 – 118in)



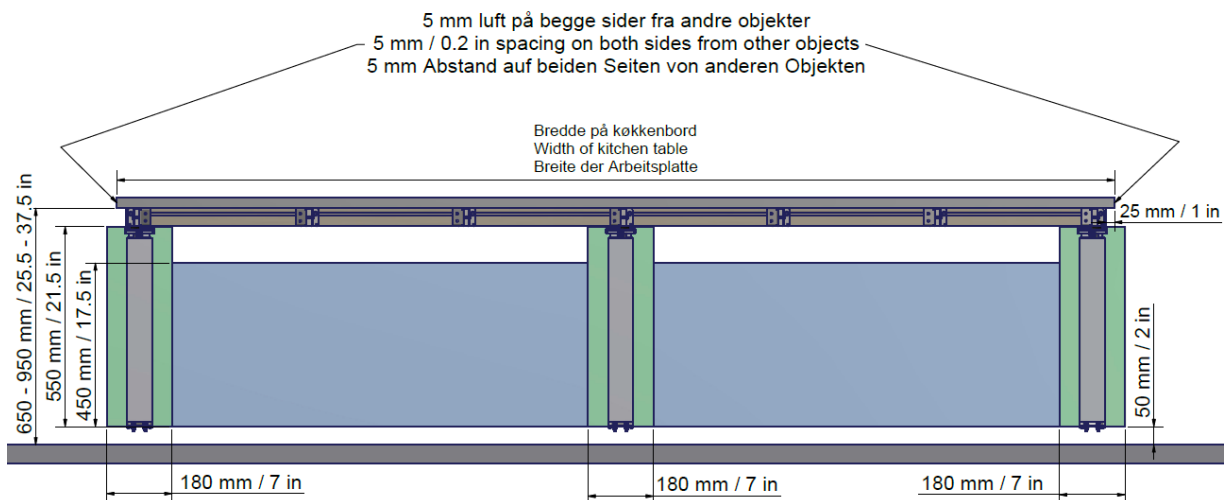
3.9 Installation interfaces

- Minimum area for reinforcement of wall. Wall must be suitable for screw mounting.
- Area for electrical and plumbing installations.

60 – 240cm (23.5 – 94.5in)



245 – 300cm (96.5 – 118in)



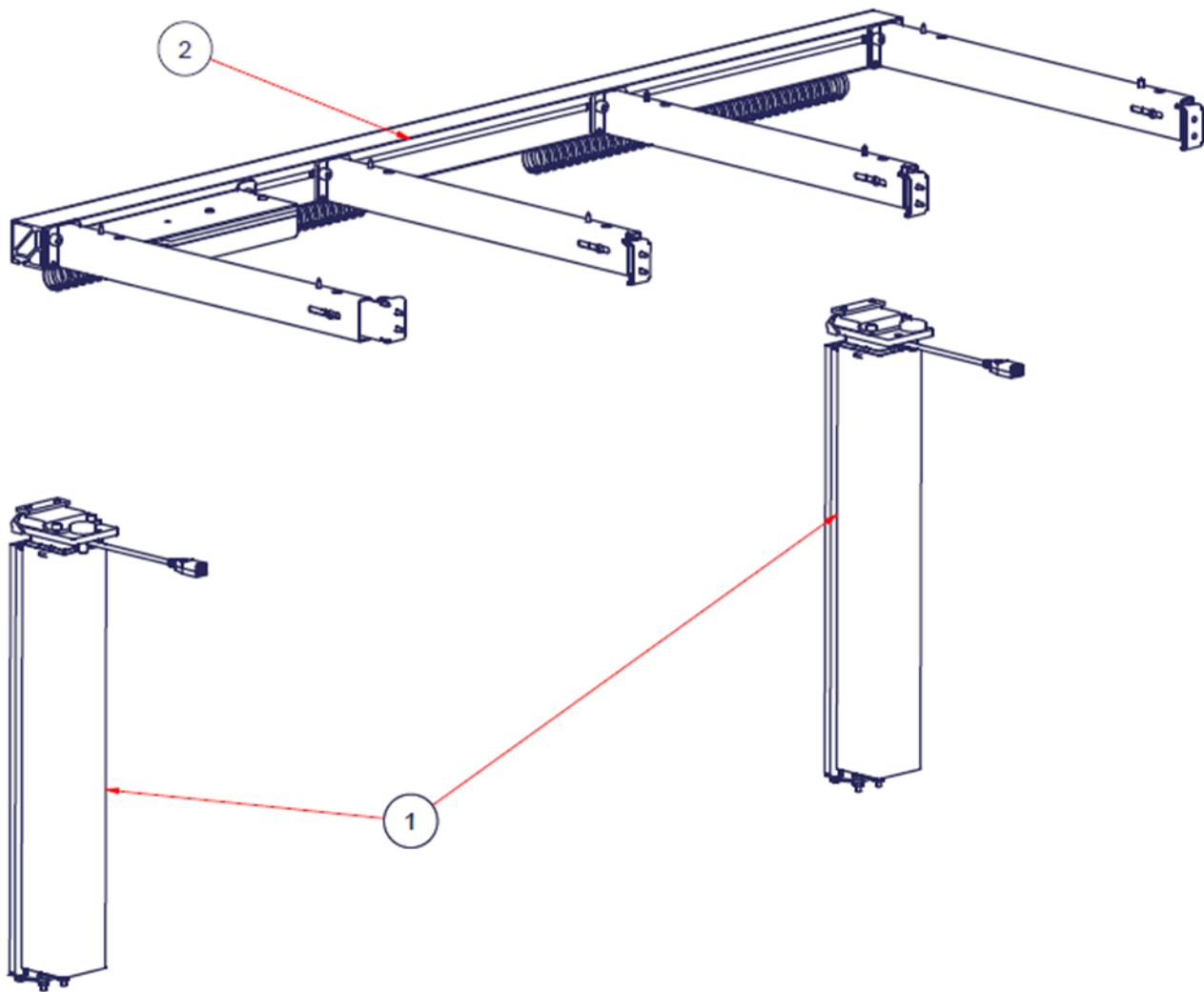
3.10 Complaints and adverse events

Any serious incident that has occurred in relation to the use of the product, should be reported to the manufacturer and the competent authority of the Member State in which the user is located.

4. Instructions for use

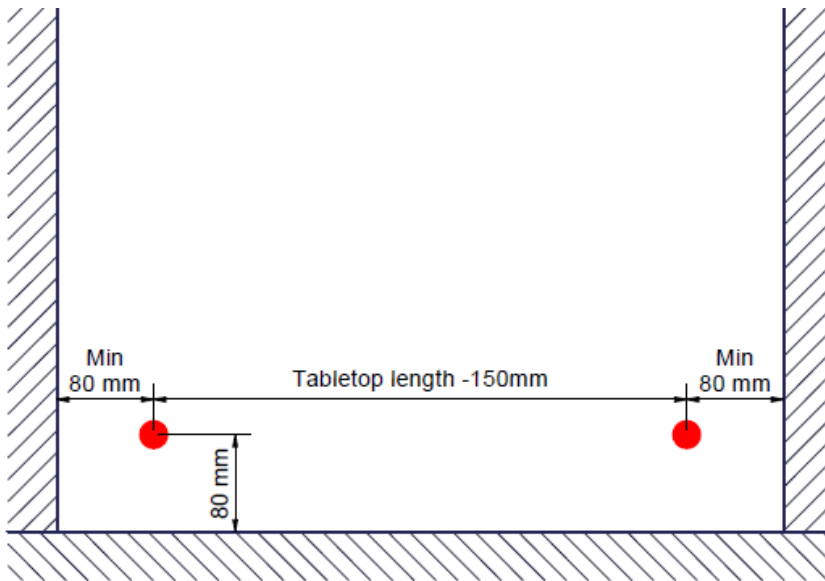
4.1 Installation of product

30*65100-060 - 30*65100-300	1	Alu. profile and support arms			2
30-67610-1	2-3	FlexiPlus Leg, Electric			1
PART NUMBER	QTY	TITLE	L	B	ITEM



4.1.1

Mark these two points for leg installation



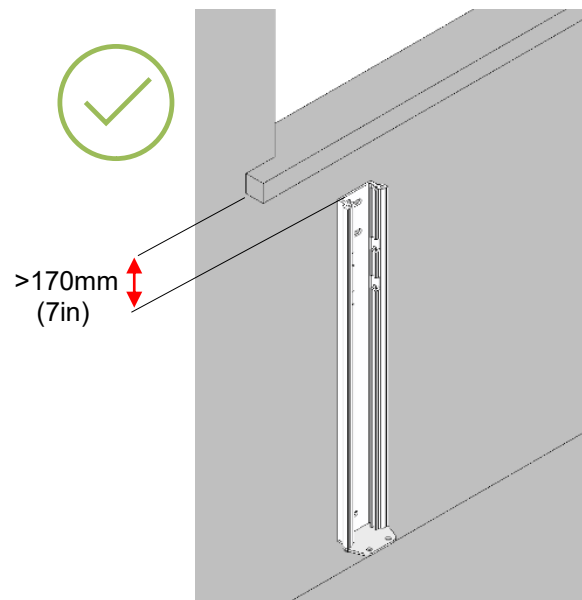
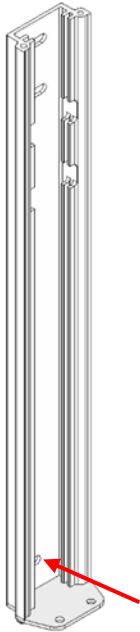
Keep a minimum distance of 80mm (3in) to fixed objects next to tabletop.
Be aware of countertop overhang.

4.1.2

Attach wall brackets in the points marked out

If needed, use rawlplugs. Max pull-out force in top screw is 30kg (66lbs).

Make sure that there is at least 170mm (7in) of clearance above the wall bracket.



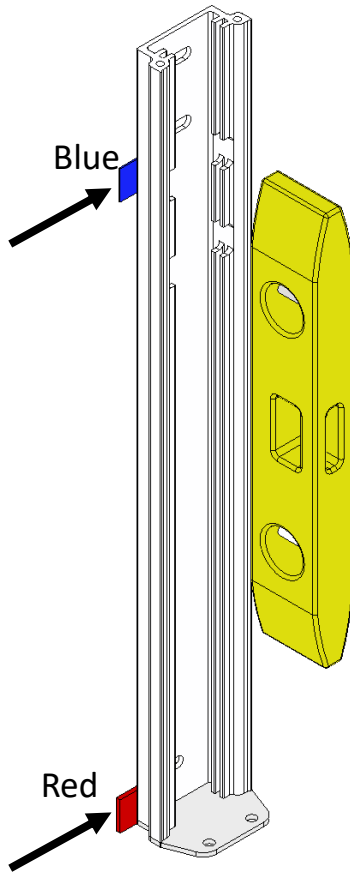
4.1.3

Level the wall brackets

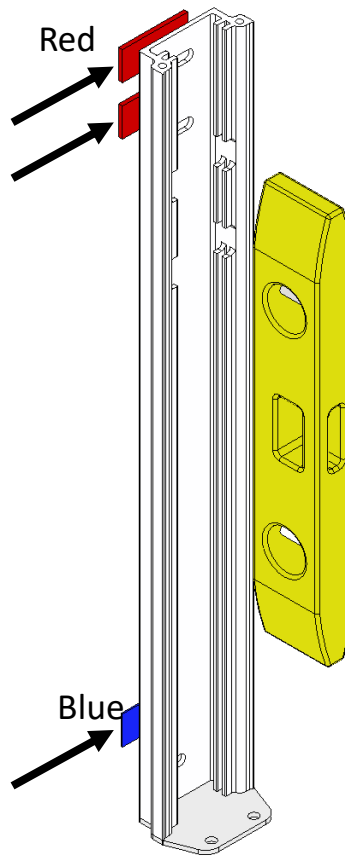
If the wall is not straight or plumb, the wall brackets must be levelled, so it is plumb.

Wedges of 1mm (blue) and 3mm (red) thickness are included for this purpose.

NOTE! It can occur when leveling, that the wall bracket will bend, if there is not enough support between the wall and the bracket. In these cases, the bracket is loosened, and wedges are placed where needed.



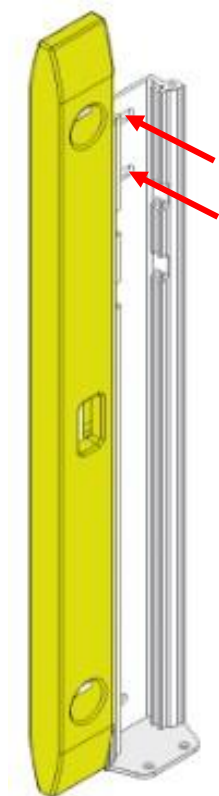
Exampel



Exampel

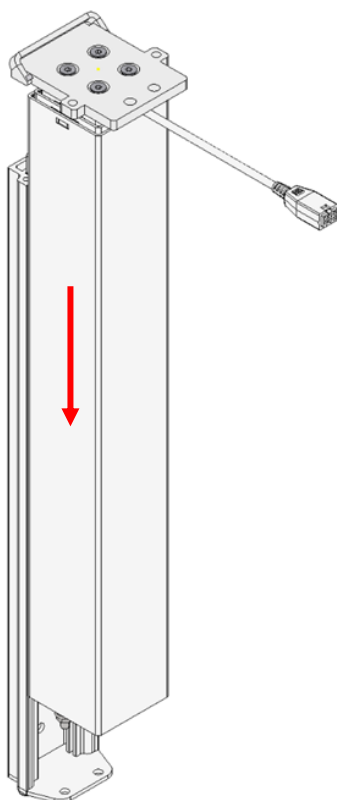
4.1.4

Plumb the wall brackets and attach top screws



4.1.5

Slide motor columns in wall brackets

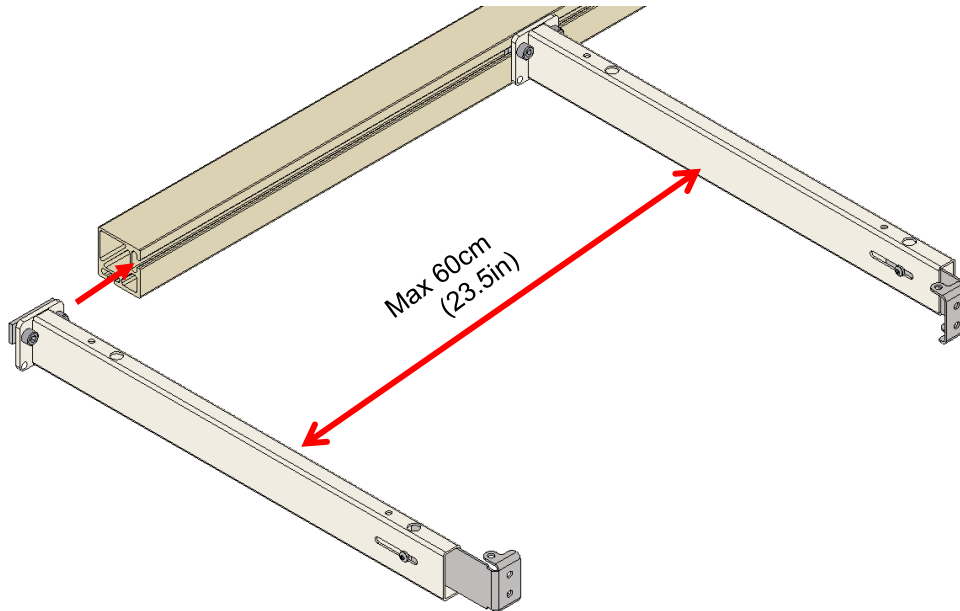


4.1.6

Mount support arms on profile

At each motor column, a support arm should be placed on top of the adjustment screw.

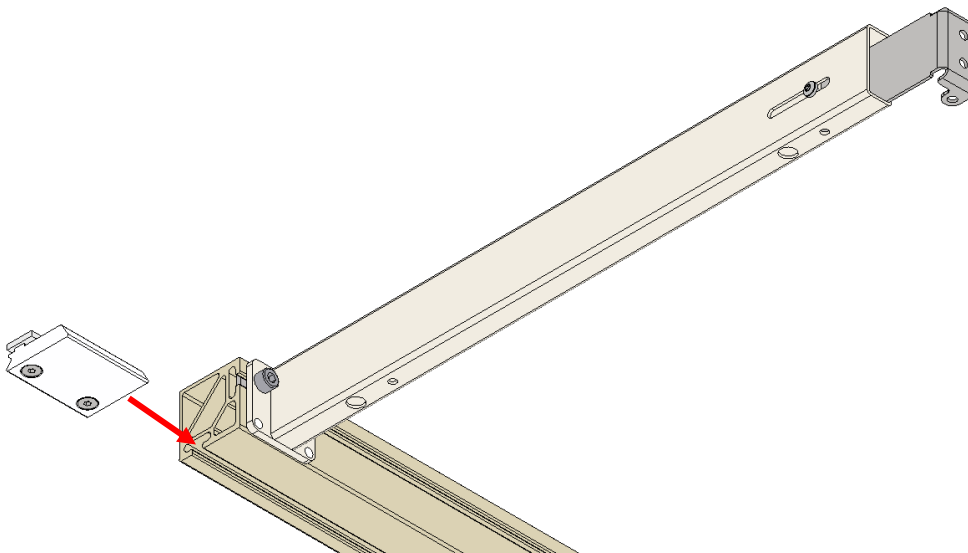
Do note, that the inner support arms must not be more than 60cm (23.5in) apart. Also note that the outermost support arms must face inwards with their outer bracket. This is done by unscrewing the bracket.



4.1.7

Mount the bracket with flatnut on the profile in each end

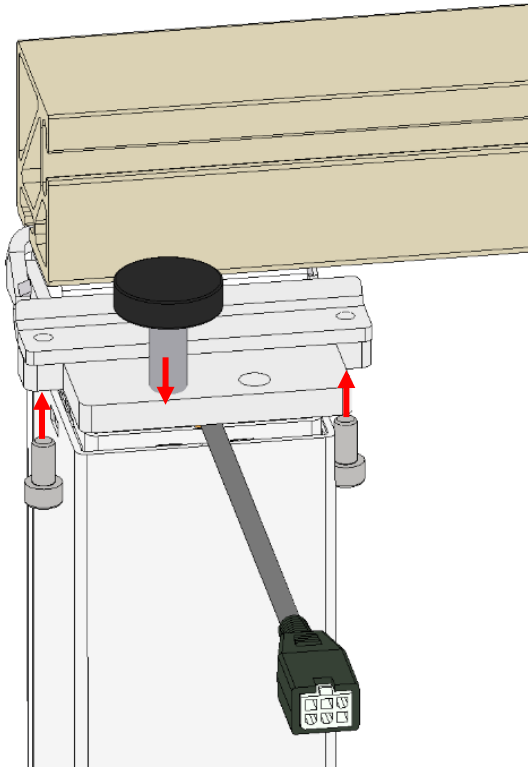
Tighten the bottom screws to fasten the bracket.



4.1.8

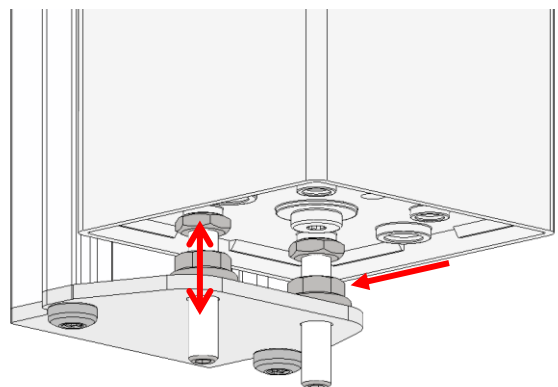
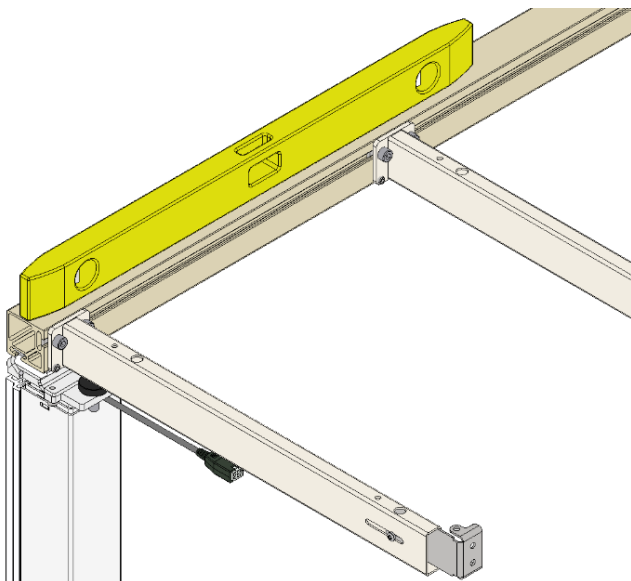
Mount the profile and adjustment screw on the leg

Mount adjustment screw first. Use tightening plate and two M6x12 screws. Adjustment screw is mounted in line with where the support arm is placed.



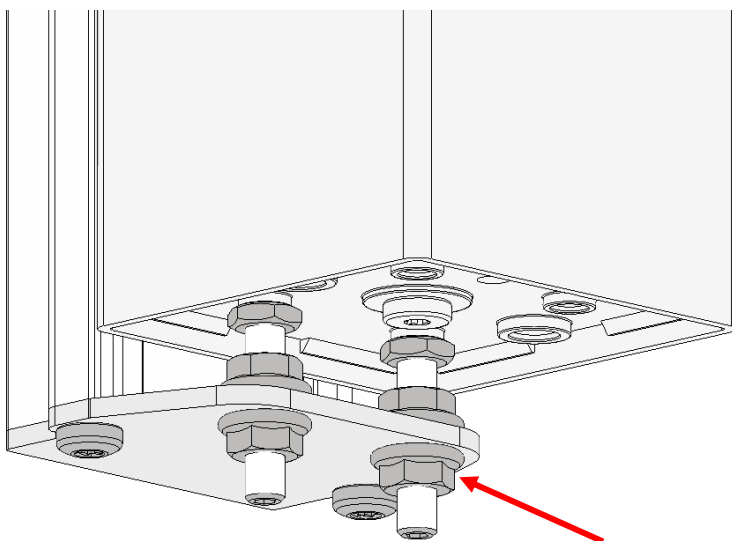
4.1.9

Level out the system by adjusting the nut at the bottom of each motor column



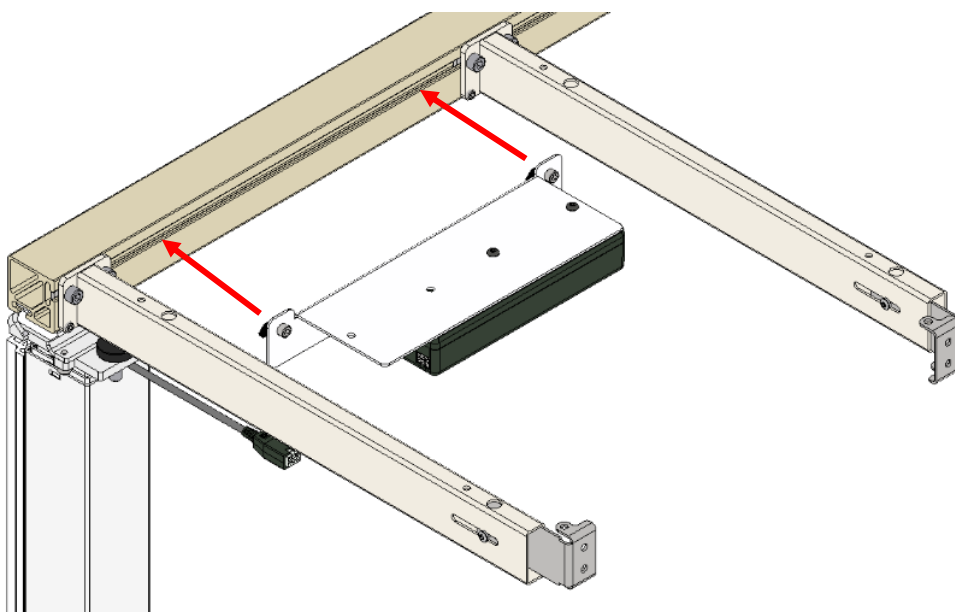
4.1.10

Lock the system by securing the retainer nut at the bottom of each motor column



4.1.11

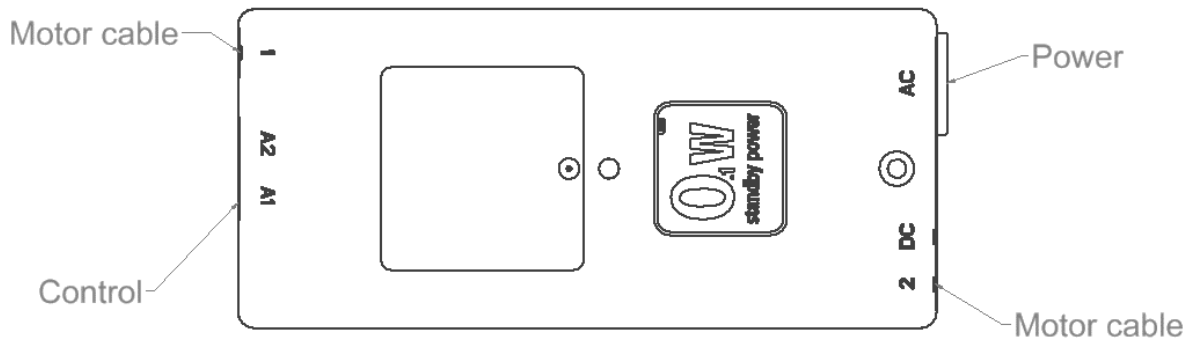
Attach the control box to the profile



4.1.12

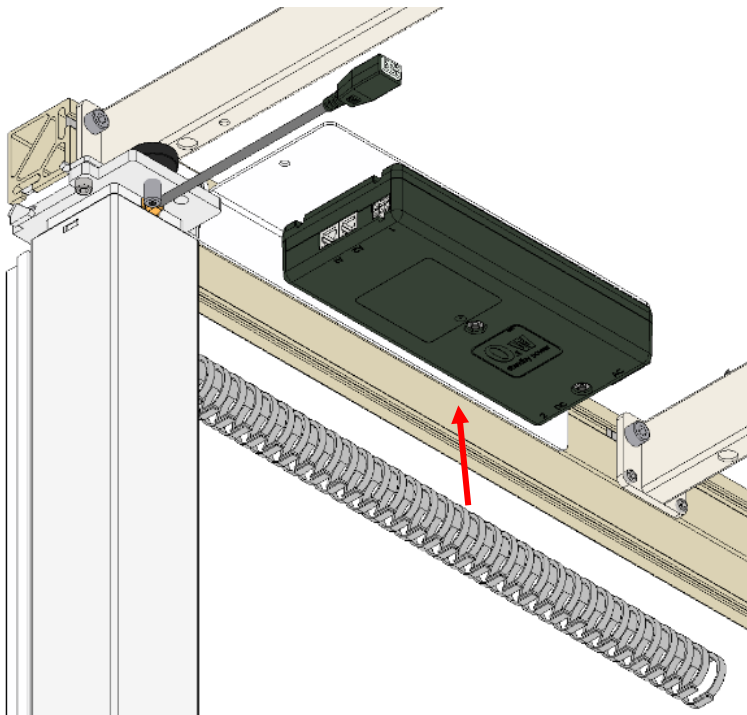
Connect cables to the control box and do a test run

Zero out the system by holding the down button until the columns have initiated a reset.



4.1.13

Mount the cable hangers on the profile, and manage the cables

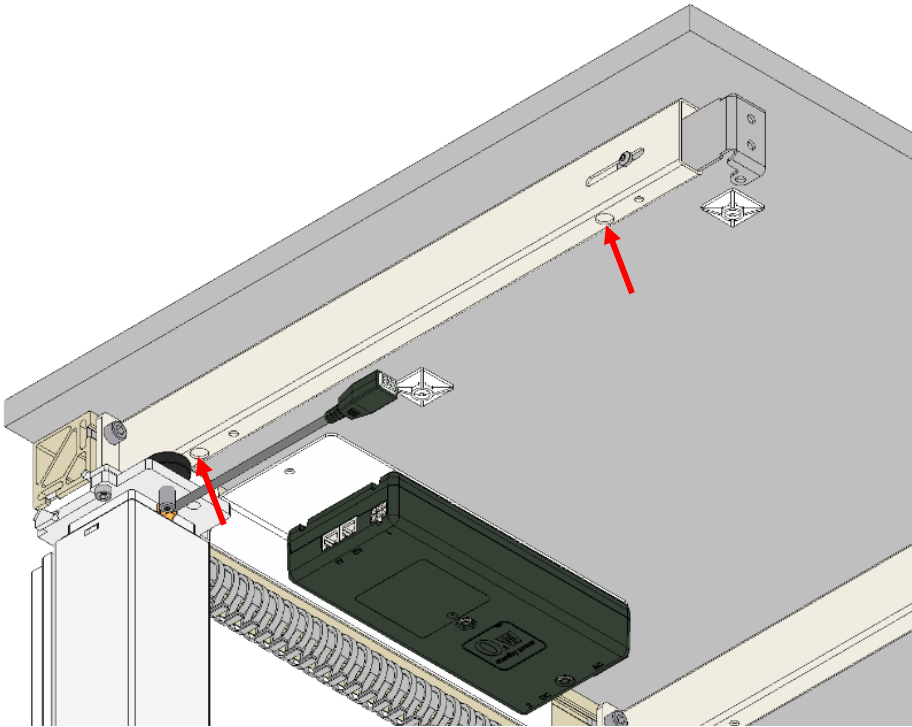


4.2 Installation of countertop

4.2.1

Place countertop and secure it to the support arms

Keep a safe distance of 5mm (0.2in) to the wall.



4.2.2

Safe distances between moving parts

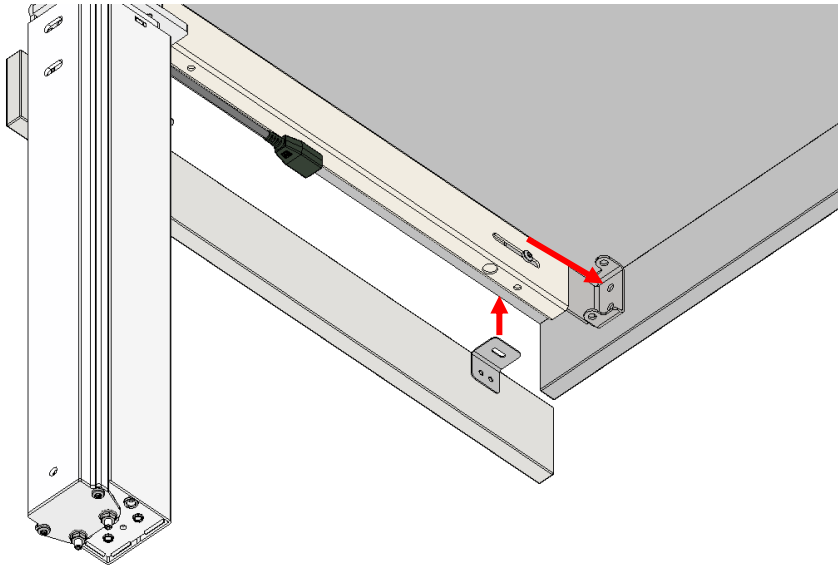
If the distance of 5mm can't be upheld, the following illustration should be followed instead, to avoid any crushing hazards.

ISO 21856	
	<5mm / >25mm
	<60mm / >300mm

4.2.3

Attach front fascia and side fascia if needed

Before mounting side fascia, mount the angle fittings on the fascia.



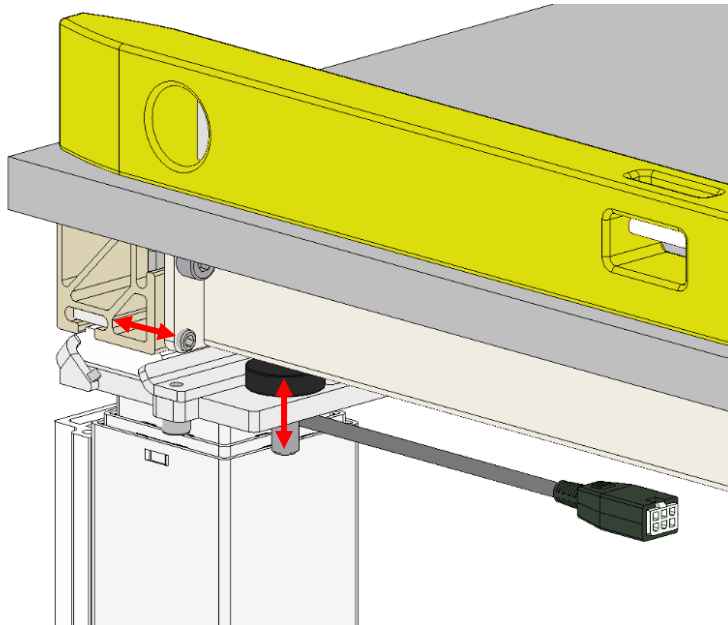
It's recommended to mount side fascia flush with the worktop to avoid entrapment.



Recommended height of worktop fascias is 60-80 mm.

4.2.4

Level the system by adjusting the adjustment screw and set screw on each leg by means of a hex key



Warning!

When mounting a hob in the tabletop, remain aware of the dangers hereby:

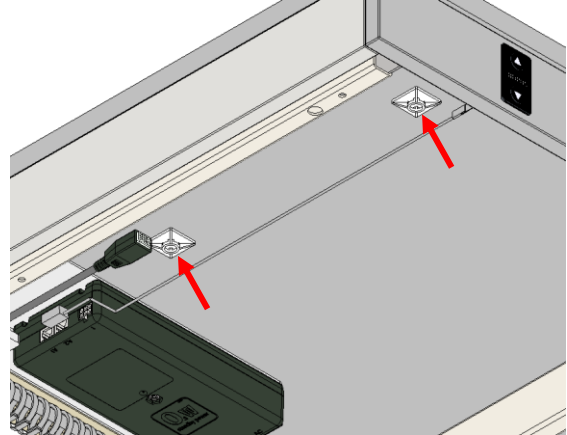
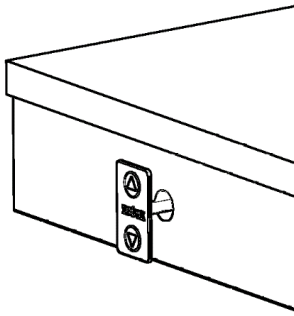
Gas hob – Always be aware of the movement of the table together with the gas hoses. If these are obstructed during the movement, this can lead to gas leakage, which can be deadly!

Induction hob – Always be aware to not bring radio equipment any closer than 30cm to the hob, this includes pacemakers!

4.2.5

Mounting the press pad

- Drill a Ø12-15 (Ø1½"- Ø5⁄8") hole in the front fascia
- Pull cable through hole in front fascia and connect the press pad, via the press pad cable, to the control box
- Mount the cable mounts on the underside of the tabletop and strap the cable to them
- Carefully remove the protection paper, on the back of the press pad, while keeping your finger between the cable-ribbon and the adhesive, as these mustn't stick to each other
- Place the press pad on the front fascia



Notice!

If the cable-ribbon sticks to the adhesive, the press pad might be destroyed.

4.3 Installation of Bluetooth adapter

With a purchase of Ropox FlexiPlus, as a standard component, a Bluetooth adapter will always accompany the product. This Bluetooth adapter allows the user to remotely connect to FlexiPlus using our app, Ropox Connect, or with the wireless control, that can be acquired as an accessory. To mount the Bluetooth adapter, follow the instructions below.

4.3.1

Mounting the Bluetooth adapter

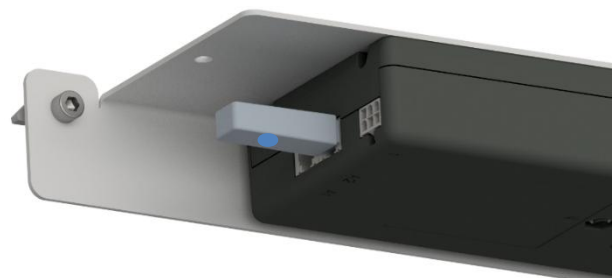
1

Insert the Bluetooth adapter into 1 of the 2 available control ports in the control box



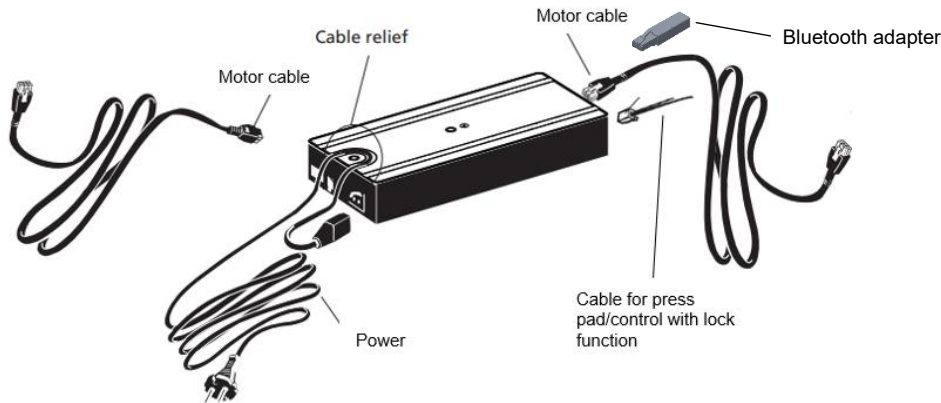
2

After the Bluetooth adapter has been inserted, it will blink blue and is ready for pairing



Note! It is recommended, when multiple products need to be connected, that 1 adapter is inserted at a time, and then saved.

4.4 Electrical component diagram



4.5 Ropox Connect App

As an option for operating Ropox FlexiPlus, it's possible to download the free Ropox Connect App, which makes it possible to operate the product wirelessly. The Ropox Connect App allows you to operate the product upwards or downwards and has the option of saving height settings, allowing users to easily change from a standing height to a sitting height. To see an expanded explanation of functions, accessibility settings, and more, see the enclosed manual, TF 200.0039.

To download the Ropox Connect App, follow the instructions below:

4.5.1

How to download the Ropox Connect App

For iOS

1. Scan the QR code or open the app: App Store.
2. In the App Store, press 'Search'.
3. Search for "Ropox Connect".
4. Find the Ropox Connect App, and press 'Get'.



4.6 Operating the product

The product is operated with the up / down button provided, or wirelessly with the Ropox Connect App. Alternatively, if a control with lock function is installed, see 5.1.3.



Warning!

The product should always be able to travel the full range of actuation without colliding with objects. Failing to do so will compromise the product stability. Special care should be taken in ensuring that no children or adults are placed under the product, as severe injury from entrapment may occur.

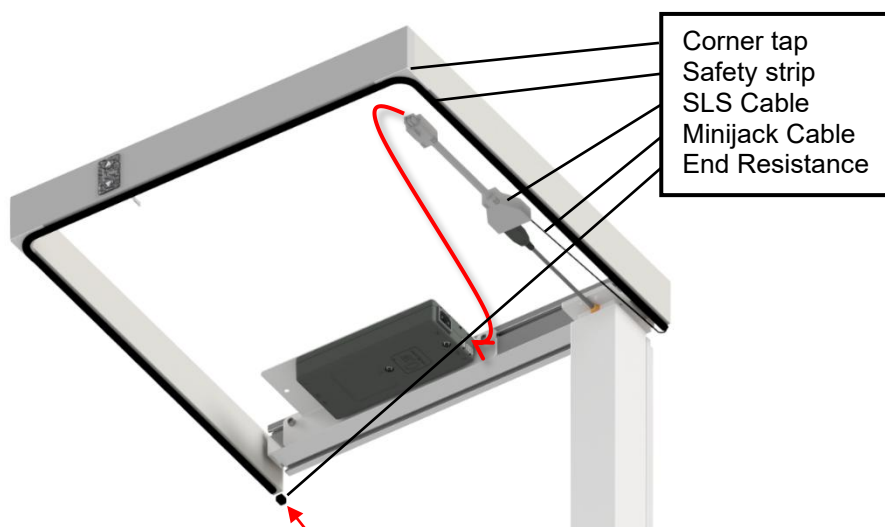
5. Accessories

Accessories	
Item Number	Model/specification
30-92xxx	Safety strip
30-90550-1	Control with lock function
30-90540-1	Wireless control
30-90600-1	Increased Load +50kg (110lbs), Order with frame
30-90601-1	Increased Load +50kg (110lbs), Order separate from frame
30-67610-1	Extra leg
30-67635	Cover for plumbing
30-67760	Bracket for coverplates
30-67705	Supporting Foot 49cm/19in Long
30-90530	70mm/3in distance bracket
30-93050 – 30-93660	Height adjustable programming, 50 – 660mm (2 – 26in)

5.1 Installation of accessories

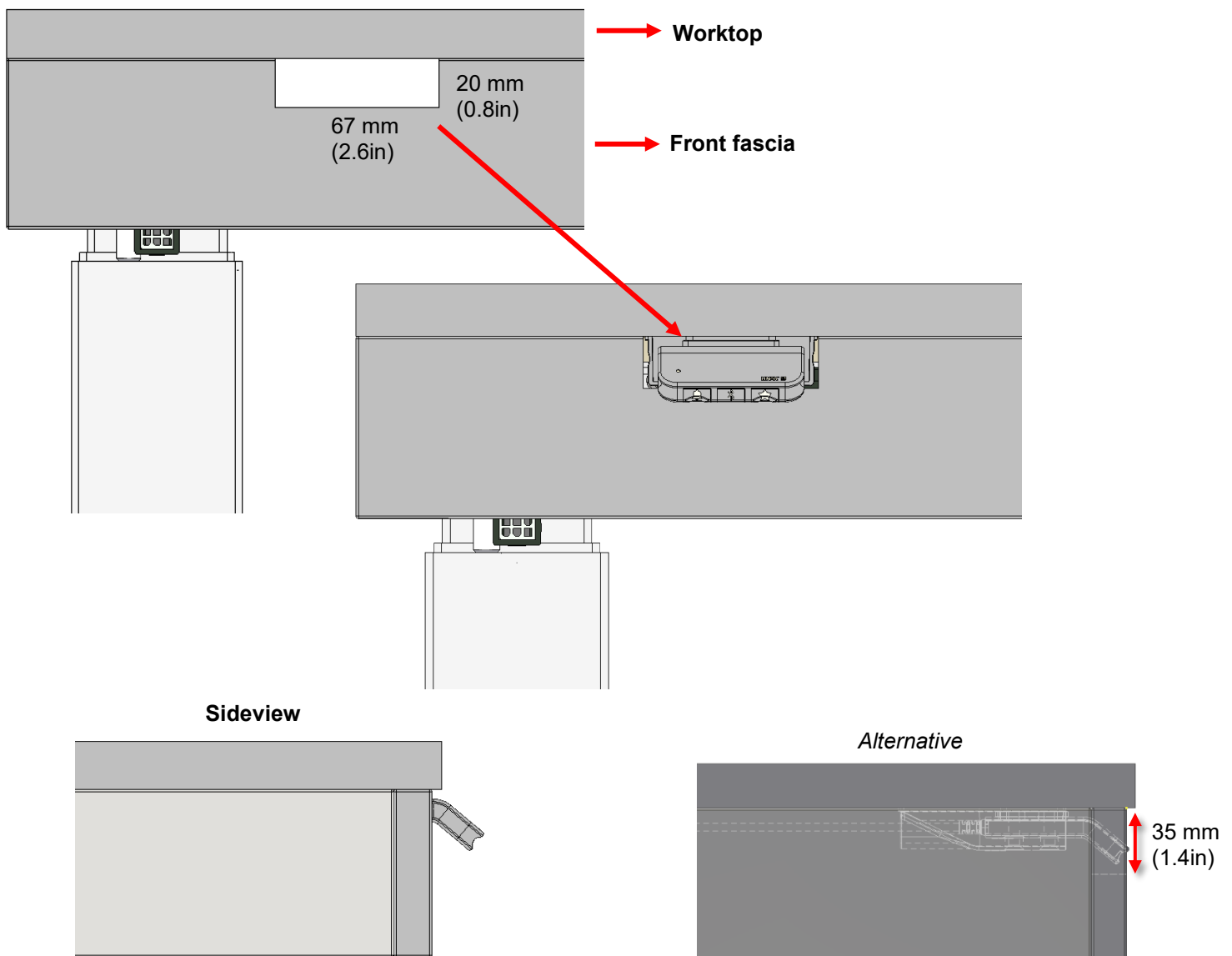
5.1.1 Installation of safety strip

- To mount the safety strip, see Safety Strip for FlexiPlus, TF 200.0043.



5.1.2 Installation of control with lock function

- For ease of installation, before mounting a front fascia, pre-drill two holes in the tabletop for the control.
- Mount the control with lock function on the bottom side of the table, by means of two Ø 4.5mm countersink screws. It is recommended that the tilted part of the control is outside the fascia, as shown below.
- Connect the control to the control box.
- If a fascia is needed, cut out a small indent in the front fascia that measures 20x67mm (0.8x2.6in). The control can be mounted further in on the tabletop than recommended. If it is, it is recommended to increase the height of the indent to 35mm (1.4in). Mount the fascia.





Notice!

DO NOT attempt to mount the control with lock function on a hard tabletop such as glass or stone, with screws.

5.1.3 Use of the control with lock function

- **UNLOCKING THE CONTROL WITH LOCK FUNCTION**

Unless otherwise specified, the control cannot activate the motor columns, without unlocking the control. This is done by pressing , **Bluetooth®**, then , within one second.


The control will lock again after 10 seconds if the control is not activated.

- **UP/DOWN**


Driving the motor columns up or down, is done by first unlocking the control, then pressing on the control from above or below.

- **DIFFERENT BUTTONS**

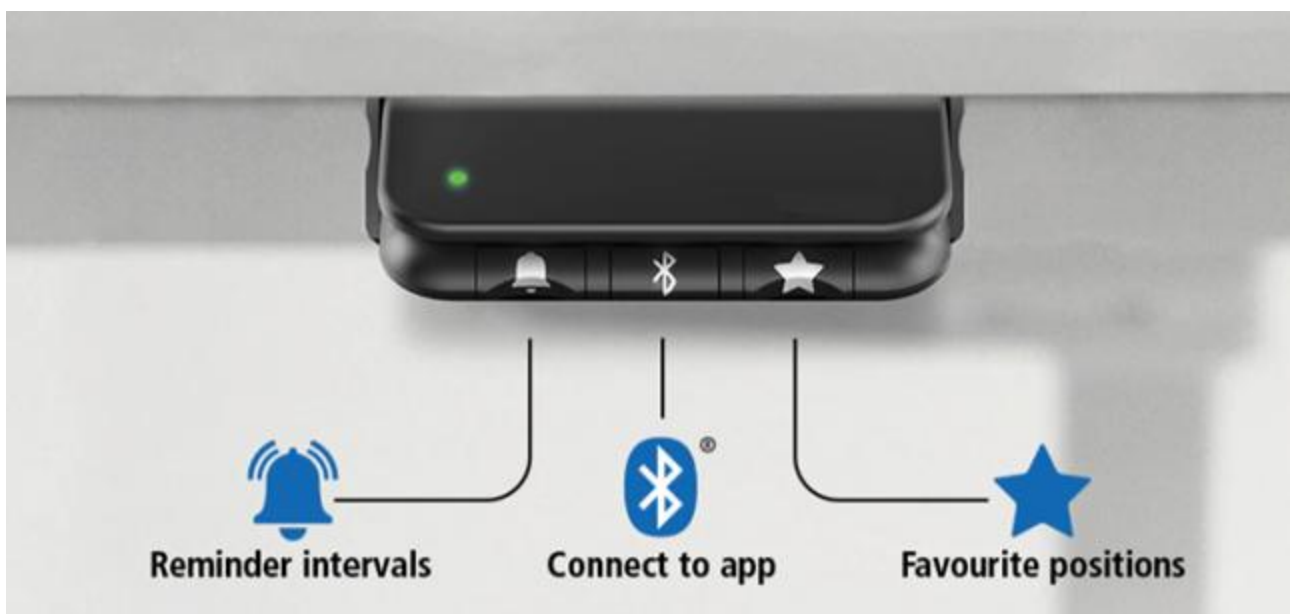
The control with lock function comes with three built-in buttons other than up/down.

 – Reminder intervals. DISABLED as per standard.

Bluetooth® - Bluetooth connectivity. DISABLED as per standard.

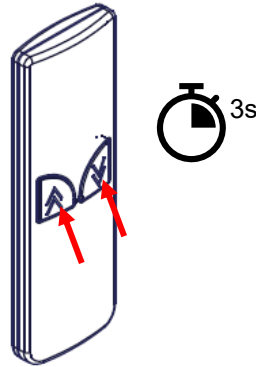
 - Changes favorite position

- Holding down the button for 2 seconds will save the current height.
2 positions can be saved at a time.
- Holding down the button for 8 seconds will reset the favorite positions, showing a red LED.
- When driving the motors to the favorite position, the motors will stop for 1 second when it is at a favorite position before continuing, if the Up/Down is continuously held.



5.1.4 Installation of wireless control

- Before the wireless control can be connected to FlexiPlus, the Bluetooth adapter must be in pairing mode, see 4.3.1.
- If the Bluetooth adapter has been inserted into the control box, but isn't in pairing mode, demount the Bluetooth adapter, then reinsert it.
- Take the wireless control and hold both UP/DOWN at once, for a few seconds.
- The system can now be remotely controlled with the wireless control.



5.1.5 Installation of increased load

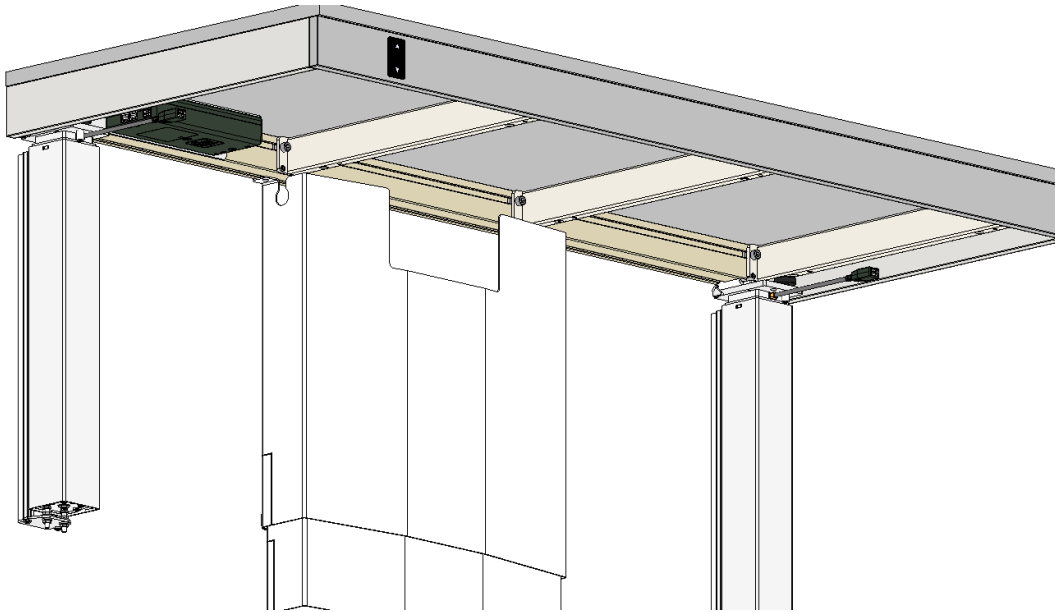
For FlexiPlus frames 60 – 240cm, the load capacity can be increased by 50kg (110lbs) by choosing this accessory. Dependent on if the accessory is chosen at the time of ordering together with the frame, or afterwards, two different item numbers must be used.

- 30-90600-1 for order with the frame.
- 30-90601-1 for order separate from frame.
- If the increased load is ordered with the frame, this installation manual should be followed as normal.
- If the increased load is ordered afterwards, follow the guide Increased Load 50kg for FlexiPlus, TF 200.0056.



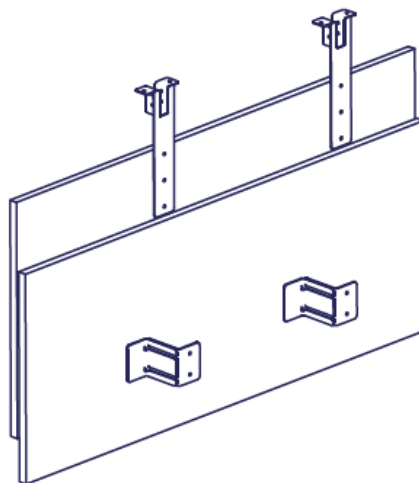
5.1.6 Installation of cover for plumbing

- BEFORE CHOOSING THE COVER FOR PLUMBING, decide upon your desired height adjustment. If the chosen height adjustment is greater than standard (300mm (11.8in)), this accessory cannot be used.
- To mount the cover for plumbing, follow the guide Mounting Instructions: Installation cover for Flexi, PDF: TF 200.0126



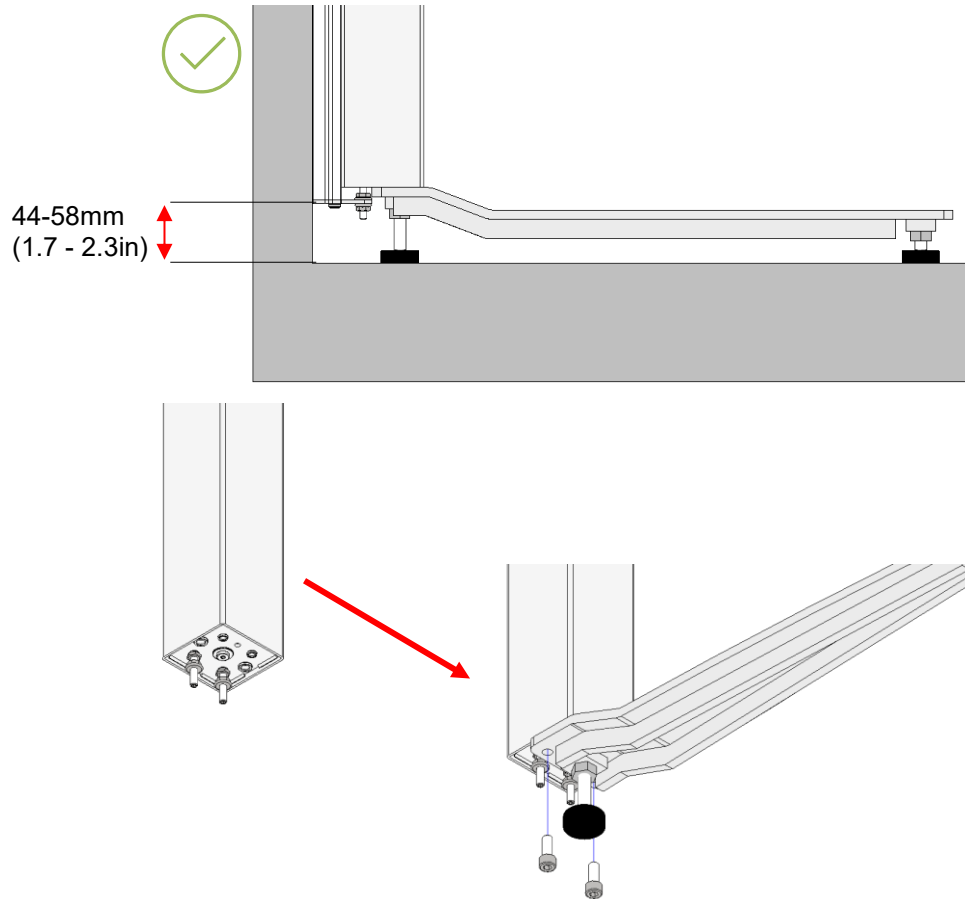
5.1.7 Installation of brackets for cover plates

- BEFORE CHOOSING THE BRACKETS FOR COVERPLATES, decide upon your desired height adjustment. If the chosen height adjustment is greater than standard (300mm (11.8in)), this accessory cannot be used.
- To mount cover plates with the brackets, follow the guide Concealment panels for Ropox Flexi, PDF: TF 200.0078



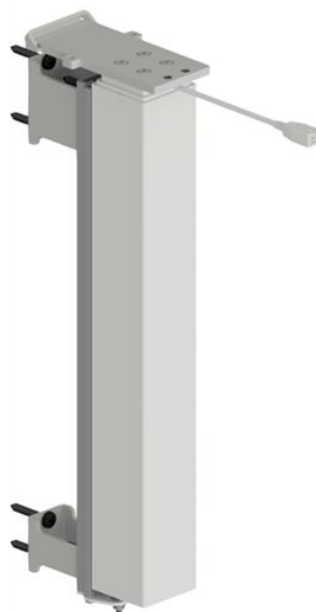
5.1.8 Installation of support foot

- NOTICE – support foot can only be used if the wall bracket is mounted between 44-58mm (1.7–2.3in) above the floor.
- BEFORE MOUNTING THE MOTOR COLUMNS ON WALL BRACKET, place the foot on the bottom of the motor columns.
- Mount the foot with the supplied M8x20 bolts in the two holes.



5.1.9 Installation of 70mm/3in distance bracket

- To mount the distance bracket, follow the guide 70mm/3in distance bracket, TF 200.0021.




6. Troubleshooting

The frame cannot be height adjusted	<p>Check all cables and plugs for loose connections</p> <p><u>If a safety strip has been fitted:</u> Check that the safety strip has not been activated</p> <p>Check connection of cables for safety strip to control unit and safety strip</p>
The frame only goes down	<p><u>Resetting the frame:</u> Press the DOWN button and adjust the frame to bottom position. Press the DOWN button once more and keep it pressed for 5 sec to reset the control unit</p>
The frame does not move straight	<p>Press the DOWN button and adjust the frame to bottom position. Press the DOWN button once more and keep it pressed for 5 sec to reset the control unit</p>


7. Cleaning

Cleaning can be done with lukewarm water and a suitable all-purpose cleaning agent. Use a cloth or soft sponge to wash the product. Dry the product off with a wrung cloth.

	<p>Notice!</p> <p>Do not use cleaning agents containing abrasives e.g. scouring powder, steel wool, scouring sponge.</p> <p>This product is not designed to be sterilized. Autoclaving and sterilization beyond normal cleaning may possibly change the product safety and function.</p>
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8. Maintenance

8.1 Periodic maintenance

	<p>Notice!</p> <p>The frame is maintenance-free. For reasons of safety and reliability, we recommend inspection of the frame once a year.</p>
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8.2 Calibration of actuator

Actuator(s) are aligned and calibrated from the factory. In case they need calibration to run simultaneously, use the following procedure.

Press and hold DOWN on the hand control (▼) until the frame is in the bottom position. Keep holding down the DOWN button until the table has completed the reset sequence.

If motor columns are out of alignment ($\geq 5\text{mm}$ (0.2in)), the system will detect it, stop, and will then need to be reset, by completing a reset sequence.

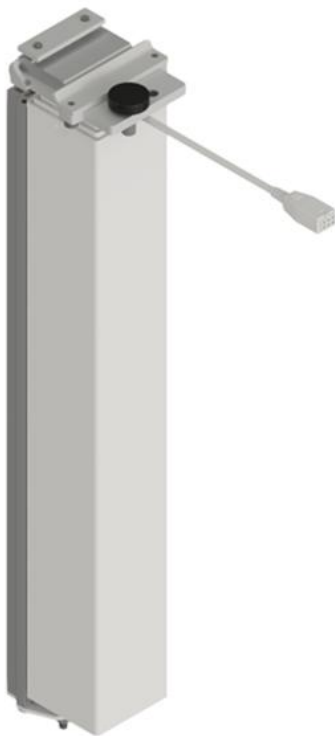
9. Component part list



Notice!

Ropox will make part lists available for extraordinary maintenance and repair beyond what is described in this manual. Repair beyond what is described in this manual may only be done by Ropox designated service personnel.

Parts included



2-3x Motor column incl. mounting bracket

30-67610-1

Includes

Wall bracket

30*67608-148

30*67608-179

95091439



Adjustment screw M10x25

96101125



Bracket w/flatnut

30*67608-165

30*67608-225

95020621



Tightening plate

30*67608-167



INSEX Screw M6x12

95010612



Flange nut M6

95180067



Cable hanger

97004062



1x Aluminum profile [specific length]

90027080



Worktop L 60-100cm (23.5-39.5in)

Worktop L 105-200cm (41-78.5in)

Worktop L 205-240cm (81-94.5in)

Worktop L 245-300cm (96.5-118in)

30-67620-9

2x **Support arms**

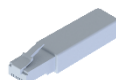
4x **Support arms**

5x **Support arms**

7x **Support arms**



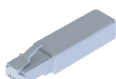
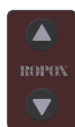
230V Control box 2ch incl. mounting bracket
-For 2x motor columns
30*67608-220



Includes press pad, cable, and adapter
97000244
97000256
97001778



120-240V Control box 3ch incl. mounting bracket
-For 3x motor columns
30*67608-221



Includes press pad, cable, and adapter
97000244
97000256
97001778



4x Angle fitting
97002730



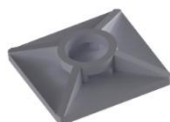
1-2x Motor cable 100 cm (39.5in)
93000068



**1x Motor cable 200 cm (78.5in), for worktop
length 165-300cm (65-118in)**
93000069



1x Power cable 320 cm (126in)
93000006



2x Cable mounts
96000155

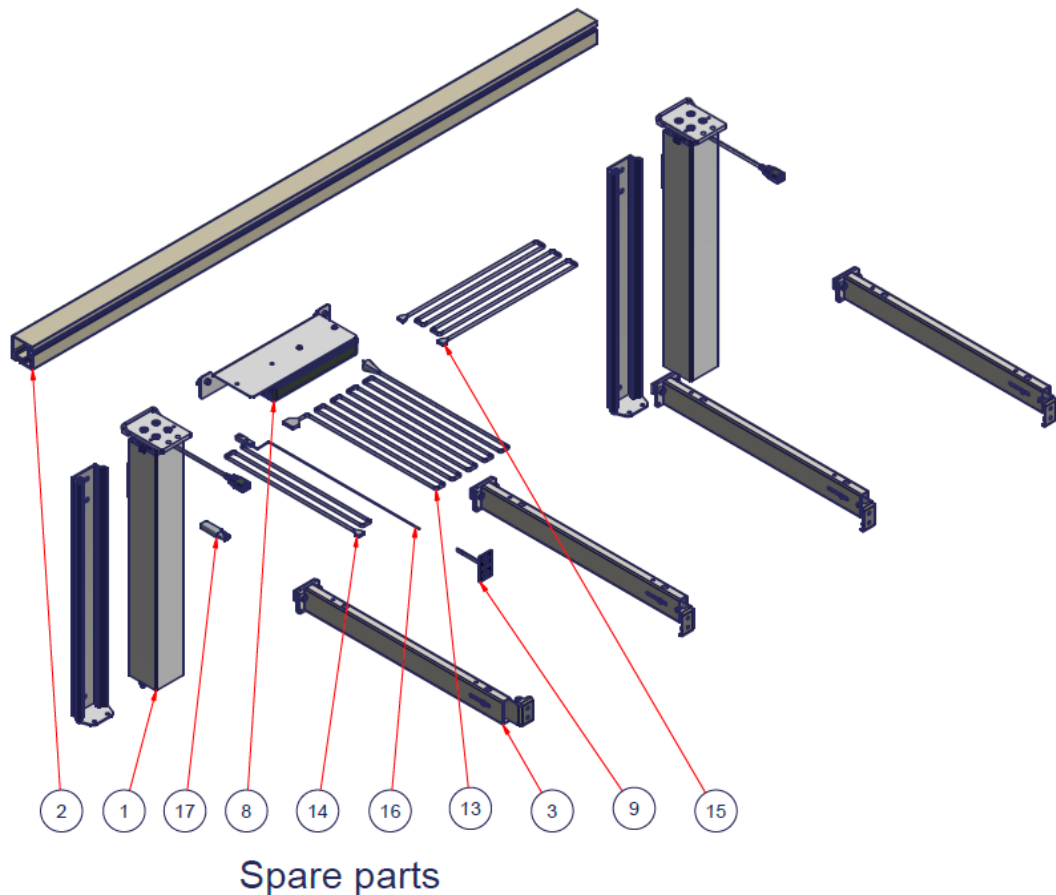


2x Cable ties



14x INSEX Set screw M8x10
95030810

10. Spare parts list



Position	Description	Number in product	Item no.
1	Motor column	2-3	93000210
2	Aluminum profile (55-295 cm)	1	90027080
3	Support arms	2-7	30-67620-9
8	Control box 2ch - For 2x motor columns	1	93000199
8	Control box 3ch - For 3x motor columns	1	93000198
9	Control	1	97000244
13	Power cable	1	93000006
14	Motor cable 100 cm	1-2	93000068
15	Motor cable 200 cm (only for lengths above 160 cm)	1	93000069
16	Control cable	1	97000256
17	Bluetooth adapter	1	97001778

11. Environmental protection

The product is not intended to be disposed as municipal waste. Proper disassembly, sorting and disposal of components must be done by waste disposal professionals.




Part	Disposal recommendation
Aluminum profile	Aluminum
Motor column	Electronics
Support arms	Steel waste
Control box	Electronics

12. Electromagnetic compatibility

12.1 Suitable Environments


The device is suitable for use at home, at daycare centers, at day centers for people with physical or mental disabilities or at hospitals except near active HF surgical equipment and the RF shielded room of a medical electrical system for magnetic resonance imaging, where the intensity of electromagnetic disturbances is high.

12.2 Adjacent and stacked use


	Warning! Use of this equipment stacked with other equipment should be avoided because it could result in improper operation. If such use is necessary, this equipment and the other equipment should be observed to verify that they are operating normally.
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12.3 Cables

Motor Cable – 93000068	100 cm (39.5in)
Motor Cable - 93000069	200 cm (78.5in)
Power Cable - 93000006	320 cm (126in)
Press pad Cable - 97000256	150 cm (59in)

	Warning! Use of accessories, transducers, and cables other than those specified or provided by the manufacturer of this could result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment and result in improper operation.
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12.4 RF portable equipment

	Warning! Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30 cm (12 inches) to any part of the device, including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment can occur.
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12.5 Compliance for emission and immunity standard

The product consists of electrical components that are tested and found compliant according to EN 60335-1 House and similar electrical appliances – Safety – 1: General requirements.
The control box has likewise been tested and found compliant according to EN 13849-1 Safety of machinery – Safety-related parts of control systems – 1: General principles of design.

