



# **Ropox FlexiPlus**

# User manual

# This manual should always be in close proximity to the product

TF 200.01.0020 / Date 01-03-2022

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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.	Ŵ
Notice Symbol This symbol is used to notify correct use and handling of the product.	

# 2. General safety

This manual must be read and understood before use.
Always keep this manual in close proximity of the product.

The use, installation and service of this product must follow this manual to avoid accidents and serious personal injury.

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.

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.

Ŵ	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 A/S, Ringstedgade 221, D         Image: Construction of the system         Constred of the system	@ropox.dk, Web: www.ropox.dk			
	This product is CE-marked in accordance with:			
CE	Council Directive 2006/42/EC on machinery			
	Council Directive 2011/65/EU, RoHS			
Manufacturer name and address				
	Date of production			
REF	EF Stock number			
SN Serial number				
Ĩ	Consult manual before use			
Operating interval of electrically operated equipment. The use of electrical adjustable equipment can run at maximum 1 minute, followed by a 9-minut				
	Consult manual for important safety related information, warnings, and safety precautions.			
X	Do not dispose as unsorted municipal waste. Product must be returned to a designated recycling station.			
40°C	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-x	60 – 300 cm	Electrical	
Maximum user weight 150kg (330lbs) evenly distributed			ŀ	
according to DS/EN 12182:2012				
Power supply	100-240V ~50/60Hz			
l in	3A			
Standby power	dby power 0,1 W			
Intermittence	1min use / 9min break			
Height adjustment	leight adjustment 300mm (11.8in)			
Speed of actuation	≈ 36mm/s (1.5in/s)			
IP rating	IPX20			
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

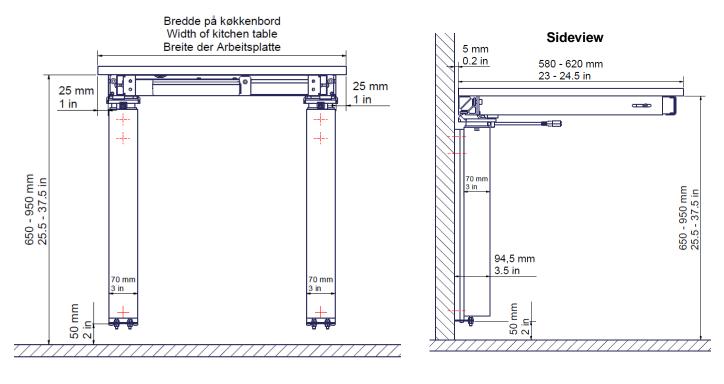
Ropox FlexiPlus is designed to make use of tabletops and worktops comfortable and easier to access for the intended population.

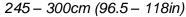
## 3.8 Product dimensions

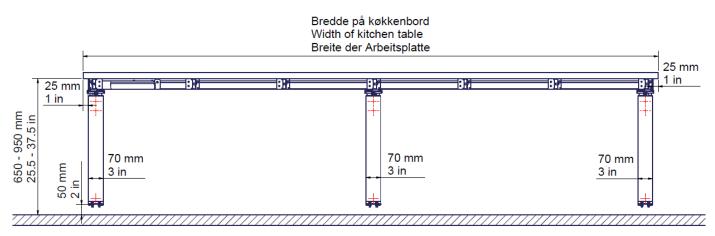
Aluminum profile is always 50mm (2in) shorter than tabletop.

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

60 – 240cm (23.5 – 94.5in)







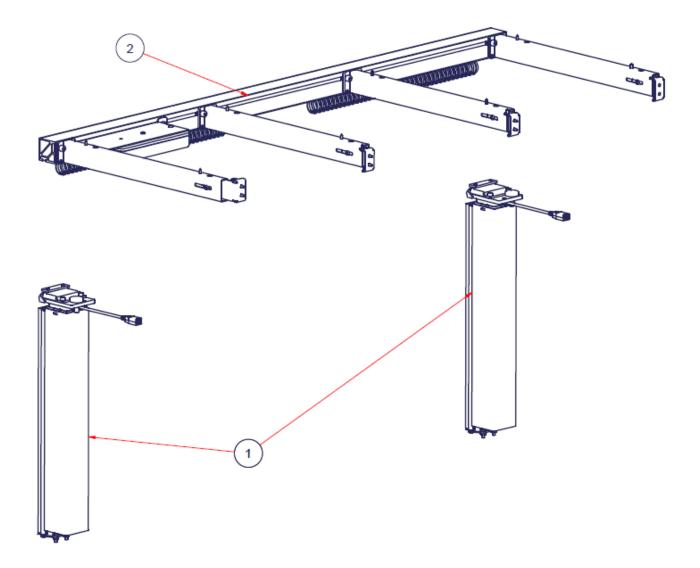
### 3.9 Complaints and adverse events

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.

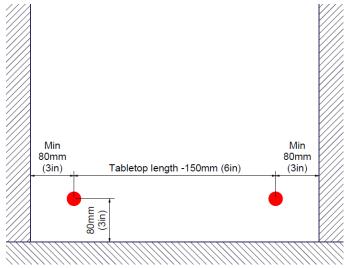
# 4. Instructions for use

# 4.1 Installation of product

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



<u>4.1.1A</u> Mark these two points for leg installation



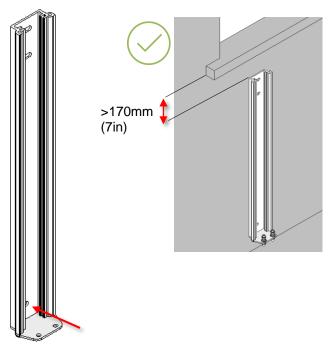
Keep a minimum distance of 80mm (3in) to fixed objects next to tabletop. Be aware of countertop overhang.

### <u>4.1.1B</u>

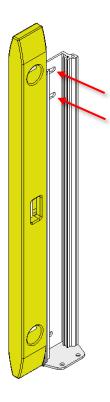
# Attach wall brackets in the points marked out

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

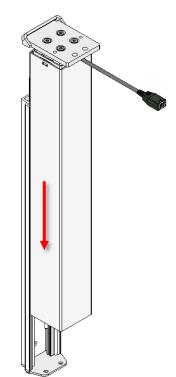
Make sure that there is at least 170mm (7in) of clearance above the wall bracket.



# 4.1.1C Plumb the wall brackets and attach top screws





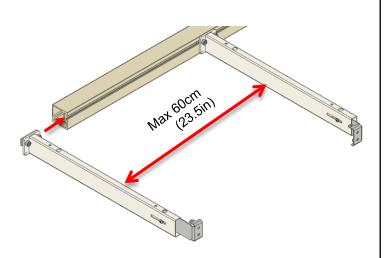


#### <u>4.1.2A</u>

#### Mount support arms on profile

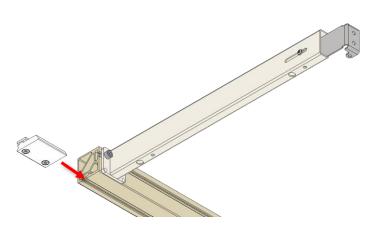
At each motor column, a support arm should be placed on top of the adjustment screw.

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.



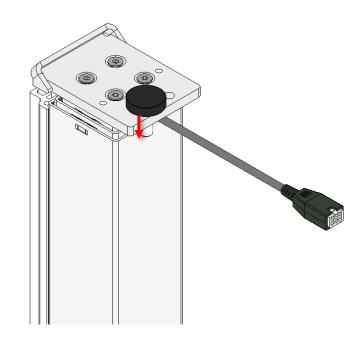
#### <u>4.1.2B</u> Mount the bracket with flatnut on the

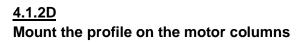
**profile in each end** Tighten the bottom screws to fasten the bracket.

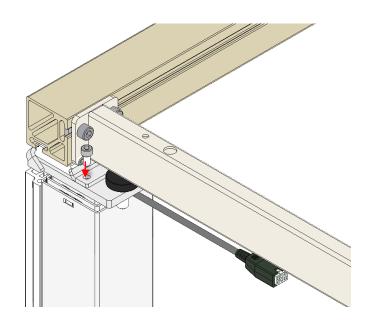


### <u>4.1.2C</u>

**Mount the adjustment screws on the leg,** in line with where the support arm will be placed.

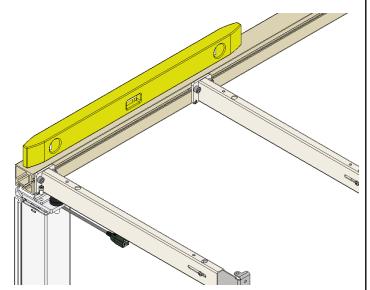


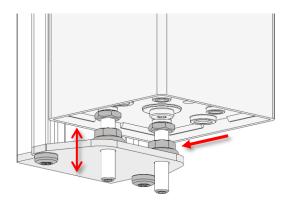




### <u>4.1.2E</u>

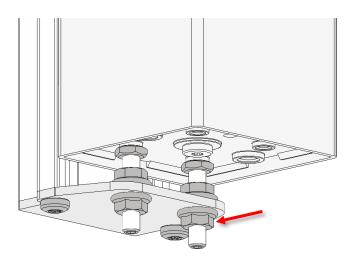
Level out the system by adjusting the nut at the bottom of each motor column



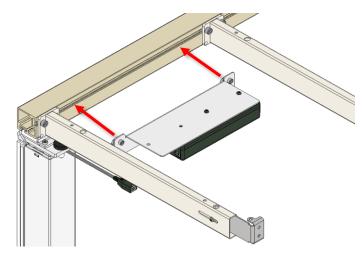


### <u>4.1.2F</u>

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

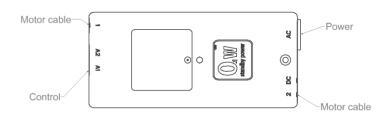


4.1.2G Attach the control box to the profile



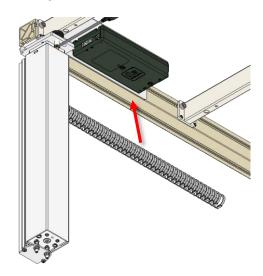
#### <u>4.1.2H</u> Connect cables to the control box and do a test run

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



# <u>4.1.2</u>

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

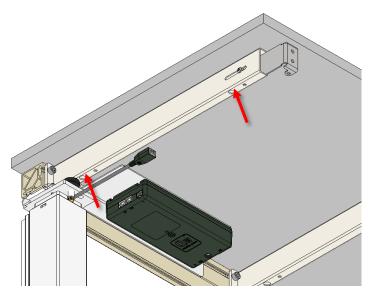


# 4.2 Installation of countertop

## <u>4.2.1A</u>

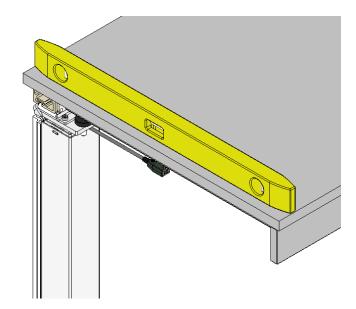
# Place countertop and secure it to the support arms

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



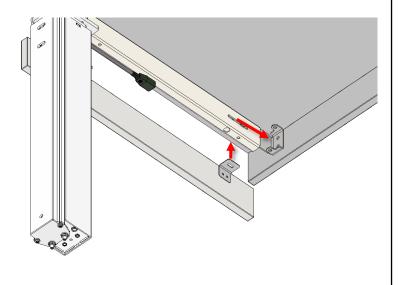
### <u>4.2.1C</u>

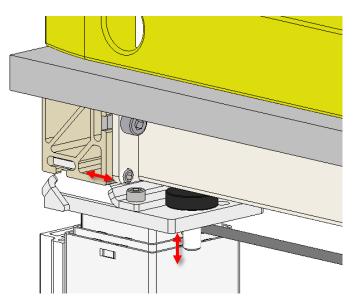
Level the system by adjusting the adjustment screw and set screw on each leg by means of a hex key



#### <u>4.2.1B</u> Attach front fascia and side fascia if needed

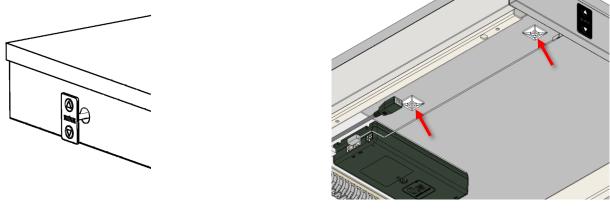
Before mounting side fascia, mount the angle fittings on the fascia.





### 4.2.1D Mounting the press pad

- •
- Drill a Ø12-15 (Ø $^{1}/_{2}$ "- Ø $^{5}/_{8}$ ") 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





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

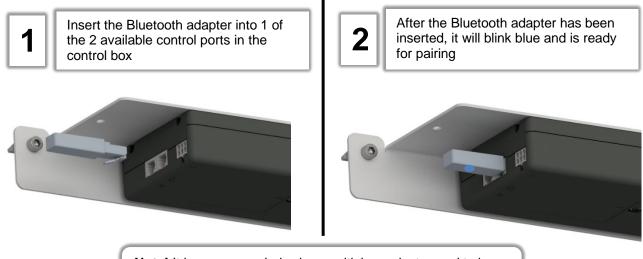
#### 4.3 Installation of Bluetooth adapter

Notice!

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.

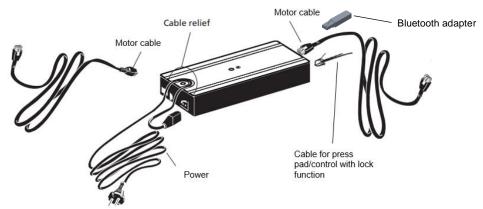
# 4.3.1

#### Mounting the Bluetooth adapter



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 200.01.0039.

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

#### <u>4.5.1</u>

#### 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!

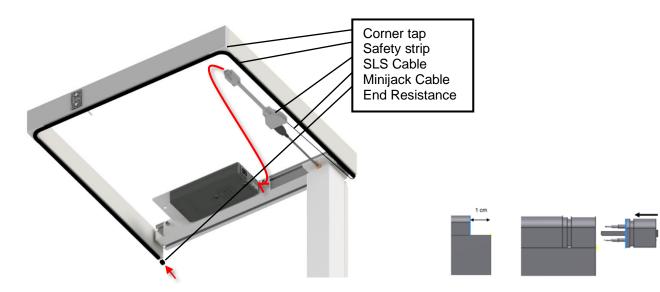
The product should always be able to travel the full range of actuation without colliding with objects. Failing to do so will compromise the product stability. Special care should be taken in ensuring that no children or adults are placed under the product, as severe injury from entrapment may occur.

# 5. Accessories

Accessories			
Item Number	Model/specification		
30-92xxx	Safety strip		
30-90550-1	Control with lock function		
30-90540-1	Wireless control		
30-67610-1	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)		

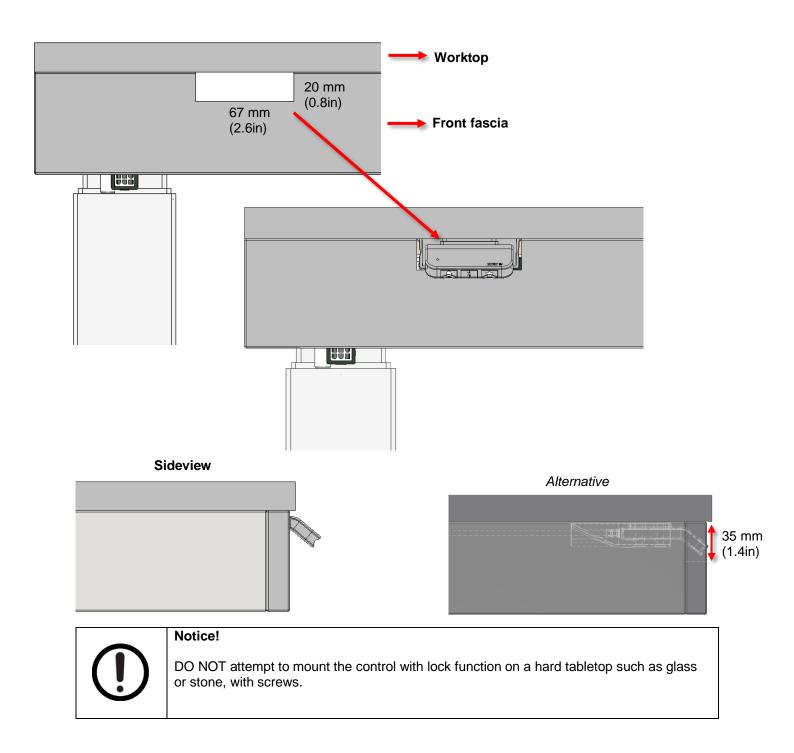
### 5.1 Installation of accessories

- 5.1.1 Installation of safety strip
  - Insert SLS cable between leg and control box. It is recommended to use one of the outer legs
  - Connect minijack cable with SLS cable
  - Connect safety strip with minijack cable
  - Glue the corner taps to the fascias, then mount the safety strip on the bottom side of the fascia by means of the double adhesive tape starting at the furthest point from the control box
  - Finish safety strip 1 cm (0.5in) from edge and push end resistance into the safety strip



#### 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.



#### 5.1.3 <u>Use of the control with lock function</u>

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<sup>®</sup>, 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

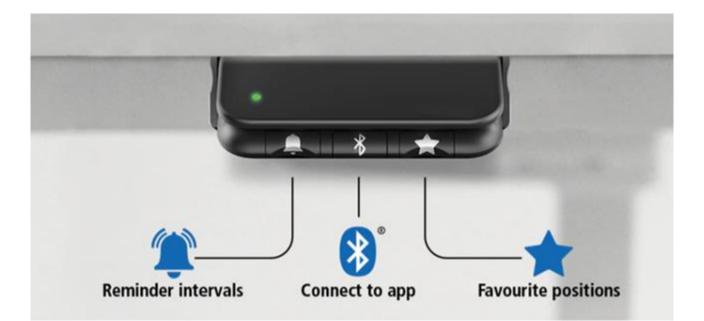
The control with lock function comes with three built-in buttons other than up/down.

 $\bigcirc$  – Reminder intervals. DISABLED as per standard.

Bluetooth<sup>®</sup> - Bluetooth connectivity. DISABLED as per standard.

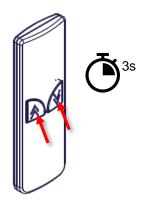
5 - Changes favorite position

- 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.



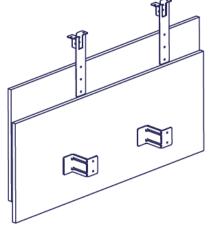
#### 5.1.5 Installation of cover for plumbing

- BEFORE CHOOSING THE COVER FOR PLUMBING, decide upon your desired height adjustment. If the chosen height adjustment is greater than standard (300mm (11.8in)), it is not recommended to use this accessory.
- To mount the cover for plumbing, see Mounting Instructions: Installation cover for Flexi, PDF 6134.



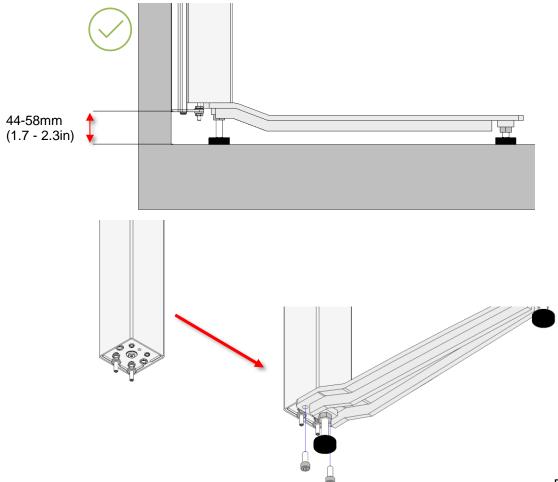
#### 5.1.6 Installation of brackets for coverplates

- BEFORE CHOOSING THE BRACKETS FOR COVERPLATES, decide upon your desired height adjustment. If the chosen height adjustment is greater than standard (300mm (11.8in)), it is not recommended to use this accessory.
- To mount coverplates with the brackets, see Concealment panels for Ropox Flexi, PDF 6163

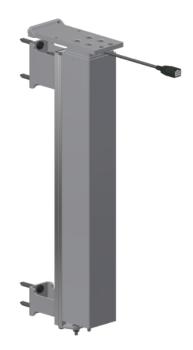


#### 5.1.7 Installation of support foot

- 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.



- 5.1.8 <u>Installation of 70mm/3in distance bracket</u>
  To mount the distance bracket, see 70mm/3in distance bracket, TF 200.01.0021.



# 6. Troubleshooting

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

# 7. Cleaning

Notice!

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.



Do not use cleaning agents containing abrasives e.g. scouring powder, steel wool, scouring sponge.

This product is not designed to be sterilized. Autoclaving and sterilization beyond normal cleaning may possibly change the product safety and function.

# 8. Maintenance

### 8.1 Periodic maintenance



#### Notice!

The frame is maintenance-free. For reasons of safety and reliability, we recommend inspection of the frame once a year.

# 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 (>=5mm (0.2in)), the system will detect it, stop, and will then need to be reset, by completing a reset sequence.

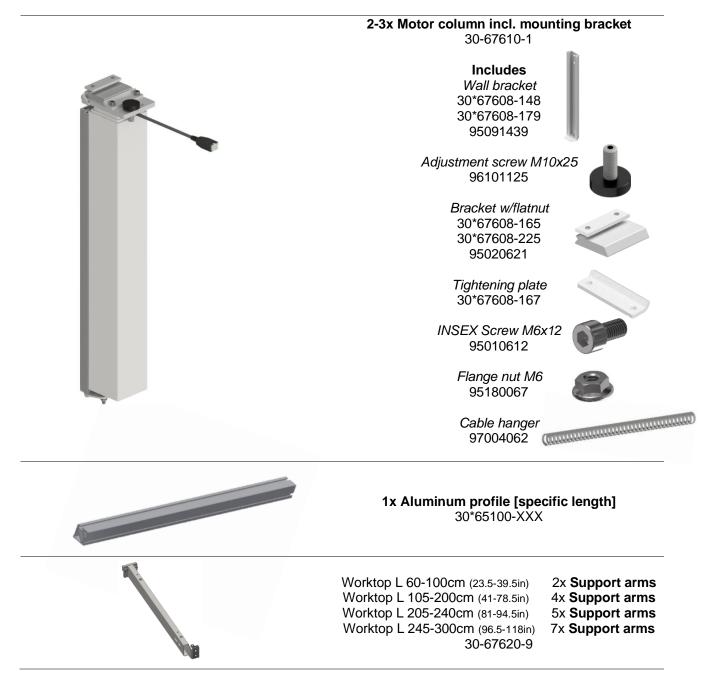
# 9. Component part list



#### Notice!

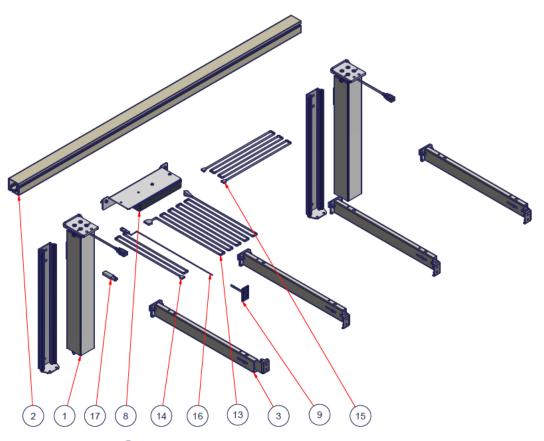
Ropox will make part lists available for extraordinary maintenance and repair beyond what is described in this manual. Repair beyond what is described in this manual may only be done by Ropox designated service personnel.

#### Parts included



	1x Control box 2ch incl. mounting bracket -For 2x motor columns
	30*67608-220
ROPOX	Includes press pad, cable, and adapter 97000244
	97000244 97000256
1 million and the second se	97001778
	1x Control box 3ch incl. mounting bracket
.4	-For 3x motor columns
	30*67608-221
a a a a a a a a a a a a a a a a a a a	Includes press and eable and adopter
	Includes press pad, cable, and adapter 97000244
	97000256
	97001778
	4x Angle fitting
	97002730
i	<b>1-2x Motor cable 100 cm (39.5in)</b> 93000068
	1x Motor cable 200 cm (78.5in), for worktop length 165-300cm (65-118in) 93000069
	1x Power cable 320 cm (126in)
	93000006
5.2	2x Cable mounts 96000155
$\mathcal{O}$	2x Cable ties
	14x INSEX Set screw M8x10 95030810

# **10.** Spare parts list



Spare parts

97001778 1		Bluetooth adapter			17
97000256 1		Press pad cable			16
93000069	1	Motor cable 200cm (78.5in), for			15
		lengths >160cm (63in)			
93000068	1-2	Motor cable 100cm (39.5in)			14
93000006	1	Power cable			13
97000244	1	Press pad			9
93000198	1	Controlbox 3ch, for 3 motor			8
		columns			
93000199 1		Controlbox 2ch, for 2 motor			8
		columns			
30-67620-9 2-7		Support arm			3
30-65100-XXX	1	Aluminum profile			2
93000210	2-3	Motor column			1
PART NUMBER QTY		TITLE	L	В	ITEM
1		Ropox FlexiPlus Spare parts		Designer OU	06-10-2021
2		Ropox r lexir lus opare parts		DS/ISO	2768 m
4					
5	—	Better ways to b	etter days	Drawing no.:	
Page 1 of	1	ROPOX Better ways to better days Ringstedgade 221, 4700 Nasstved TIC: 55750500 Fax: 55750550 30-90XXX-		XXX-1	

# **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.

#### 12.3 Cables

Motor Cable – 93000068 Motor Cable - 93000069	100 cm (39.5in) 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.

# 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.

# 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.

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