









ROPOX Toilet lifter Electric

User manual

This manual should always be in close proximity of the product.

TF 200.03.0006_ENG / Date 01-03-2021



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1. Symbols used in this manual

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. Notification 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 and installation. Always keep this manual in close proximity of the product.

The use, installation and service of this product must be in compliance with 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.

Persons 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 persons in order to avoid a hazard.





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 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.

Do not use the product if it has defects or have 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..

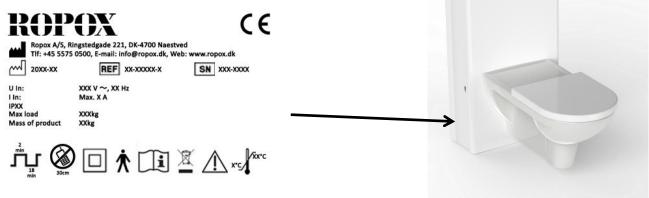


The information in this manual is based on correct installation in accordance with installation instructions for this product.

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



	This product is CE-marked in accordance with:
CE	European Medical Device Directive 93/42/EEC, including amendments incorporated in Directive 2007/47/EEC.
	European Medical Device Regulation (EU)2017/745
	Council Directive 2006/42/EC on machinery
	Council Directive 2011/65/EU, RoHS
<u>~</u>	Manufacturer name and address
M	Date of production
REF	Stock number
SN	Serial number
Ţ <u>i</u>	Consult manual before use
2 min 18 min	Operating interval of electrically operated equipment. The use of electrical height adjustable equipment can run at maximum 2 minutes, followed by an 18-minute break.
^	Type B applied part. The product complies with IEC 60601-1 requirements to provide protection against electric shock.
\triangle	Consult manual for important safety related information, warnings and safety precautions.
	Class II, double isolated electrical components.
X	Do not dispose as unsorted municipal waste. Product must be returned to a designated recycling station.
30cm	Mobile phones or other portable RF emitting equipment should be no closer to the product than 30cm.
5° <u>c</u>	Operating and storing temperatures may not exceed 5-40C°



3. General requirements

3.1 Product information

	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	on
	40-45027	Toilet lifter	Electric	
Expected service life according to ISO 17966:2016	5 year			
MDD Class 93/68/EEC MDR Class 2017/745	Class I			
Applied part classification 60601-1	Type B applied part			
MEE Class 60601-1	Class II			
Intended environments	This product is to be used only in: Proffesional Healtcare Environment Homecare Environment The device is not intended for use in special environments as defined by IEC 60601-1-2			
Maximum user weight according to ISO 17966:2016	400kg			
Power supply	100-240V ~50/60Hz			
l in	Max 2.0A			
Intermittence	2min use / 18min pause			
Height adjustment	405-655mm			
Speed of actuation	≈ 8mm/s			
IP rating	IPX6			
Ambient temperature	5-40C° Operation		12.6	I Defended to the
Materials in contact with patient	Component		description	Reference datasheet
	Covers	ABS/PM	IMA plastic	



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Accessories		
Item nr	Model	
40-45011 40-45012 40-45013 40-45014	Height adjustable toiletsupports, Short straight Height adjustable toiletsupports, Long straight Height adjustable toiletsupports, Short Wave Height adjustable toiletsupports, Long Wave	
40-45100	Backrest long (70cm Toilet)	
40-45101	Ryglæn, Short (56cm Toilet)	

3.2 Product description

The ROPOX toilet lifter electric can be set in heights ranging from 405-655mm by the use of the wireless handset. Height adjustment will meet different sitting height needs various patient heights.

3.3 Intended use

The ROPOX height adjustable toilet lifter is intended to be used in both homecare and professional healthcare environments. Adjusting the height will meet ergonomic demands emerging from various patient heights.

The toilet lifter is not intended for playing, or as a training device.

3.4 Intended operator

The intended operator may include all that have read and understood this manual exempt kids.

3.5 Essential performance

The device does not have any function related to basic safety or essential performance. In case of loss or degradation of performance, the user can get of the toilet.

3.6 Non clinical functions

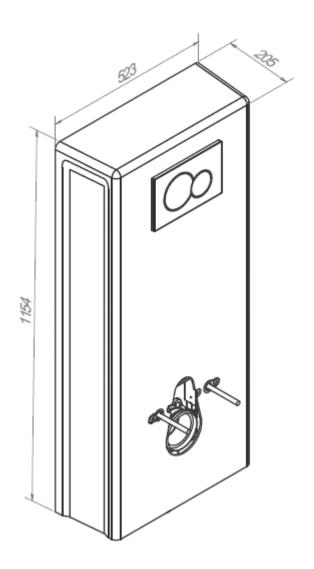
Height adjusting offers better ergonomics to user and caretaker.

3.7 Clinical functions

This product do not offer clinical benefit for patients, when used as intended by the manufacturer.



3.8 Product dimensions

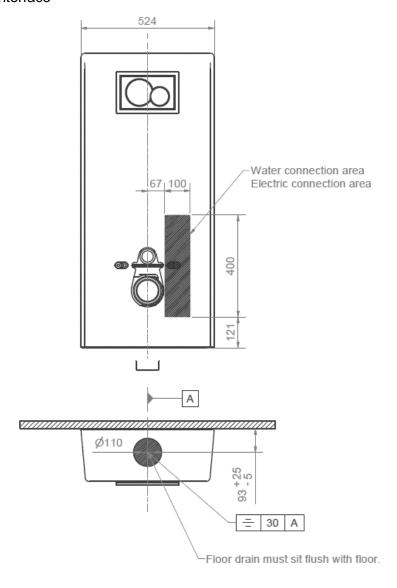




4. Instructions for use

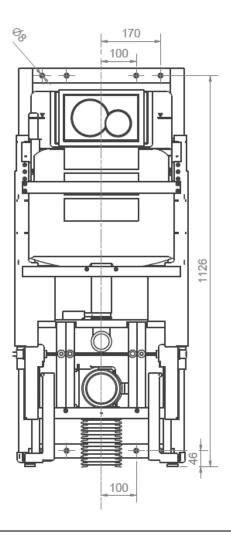
4.1 Installation of product

4.1.1 Installation interface





4.1.2 Construction





Notification!

The toilet lifter is supplied with a set of 6 screws and rawlplugs suitable for mounting in a concrete wall. The fitter should always consider the material, condition, and strength of the wall and use screws and rawlplugs suitable for the specific wall type.

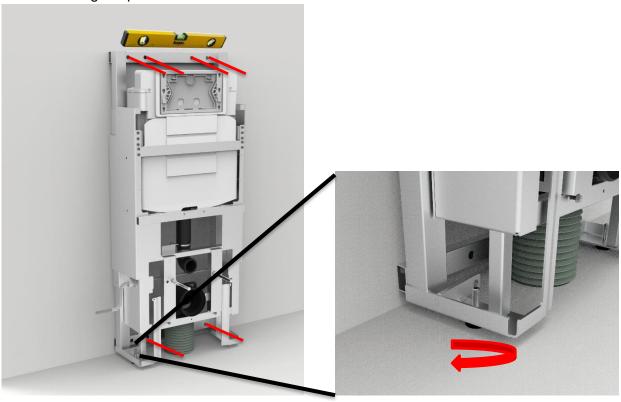
Caution!



Maximum pulling force per screw is 44kg, at 400kg max user weight according to ISO 17966: 2016



4.1.3 mounting the product.



- a. Line up frame with threaded foots. Mark holes 6X and drill holes for appropriate rawl plugs
- **b.** Connect water hose on wall outlet and electric outlet before securing frame to the wall
- c. Secure frame to wall

d. Mount the drain bellow as instructed below





Drain finished at floor level:
Flex pipe is mounted on the drain adapter with a hose clamp, which is then pressed into the drain.









Mount the bellow as shown below for correct flow















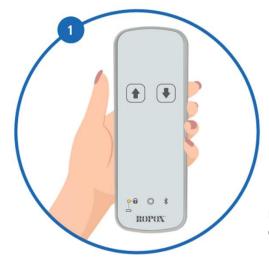


4.1.4 Pair Bluetooth



Notification!

Pair the remote to the product and test full stroke before continuing installation!



Move within 2 meters of application

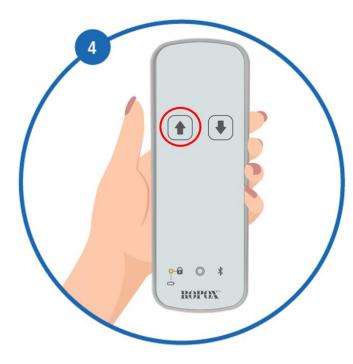


Enter Direct pairing mode by activating "up" button and holding the magnet key over its symbol for 3 seconds





Release "up" button and magnet key and move closer to the product until buzzer frequency change from slow to fast.



Confirm pairing by pressing "up" button.
A double "beep beep" will confirm pairing OK

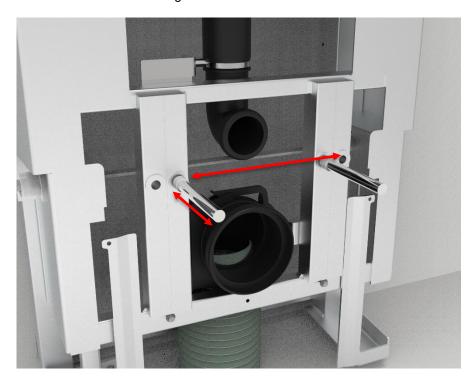


Notification!

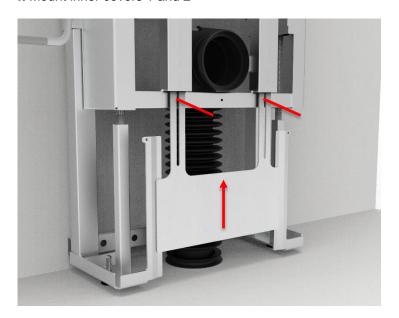
When pairing is complete test product stroke. Make sure all cables, water connection and drain connection travels freely. The electrical connection shall travel unhindered, and may not get intangled in other installations.



e. Cut threaded rods to length and secure them in the frame.



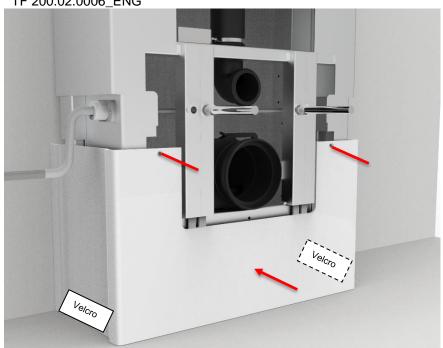
f. Mount inner covers 1 and 2







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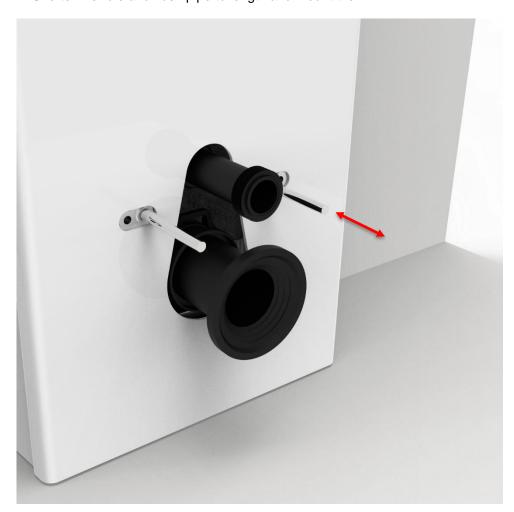




g. Mount outer cover



TF 200.02.0006_ENG h. Shorten Ferrule and flush pipe to length and mount them







j. Finish the installation by checking:



- 1. Rigidity test, sit on the toilet and check screw connections are firm.
- 2. Check full travel of the product goes unhindered
- 3. Check flushing and leaks.

4.2 Operating the product

Operating the product is done by using the wireless handset. Pairing should be done prior operation.



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 sited under the product as severer injury from entrapment may occur.

4.3 Residual risk

Warning Be aware that there are no persons, body parts under the toilet when it is driven down, as a danger of clamping may occur. Caution Do not place the hand between the wall and the movable cover, as a danger clamping may occur. Warning In case of incorrect installation of plumbing parts, water leaks can occur on the floor, which may

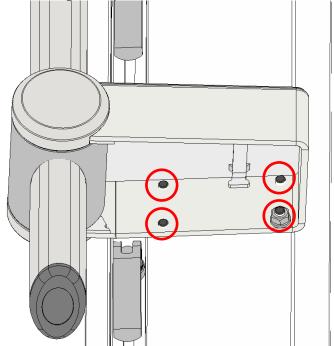


increase the risk of falling.

4.4 Installation of accessories

4.4.1 Installation of height adjustable toilet support arms

a. attach housing to the profile with 3x M6x12 and 1x M6x16. Use a locking nut on M6x16.



b. Mount M6 buttonhead screws on both sides. Leave about 5mm clearence between underside of screw head to the plastic cover.





c. Slide the assembly on the two screw heads and attach the assembly with the two clamps as shown on the next image.





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TF 200.02.0006_ENG d. Put on the end rubber cover.



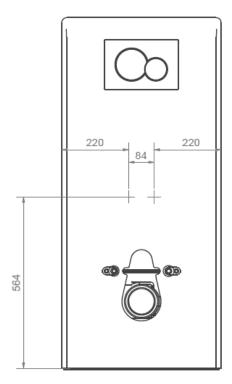


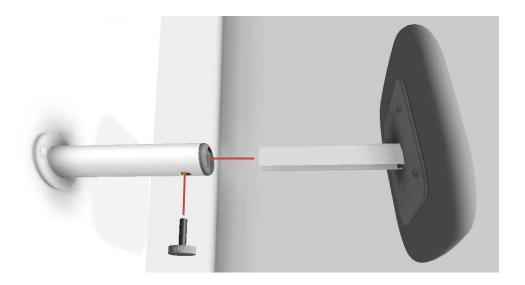
TF 200.02.0006_ENG 4.4.2 Installation of backrest

If Ropox Back Support, long is ordered together with Ropox Toilet Lifter, there will be pre-drilled holes in the cover cap. If the back support is ordered later for subsequent mounting, please see the dimension drawing for the location of holes.

2 M5x16 are used.









5. Trouble shooting

Product wont work	Check pairing of handset
	Check that all wires are pressed in sockets.
Product stop working	Check batteri on handset.

6. 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 of with a wrung cloth.



Notification!

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

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

Preapproved cleaning agents

Tradename	Solution
Acticlor plus	1000ppm
S90 sanirens	1-3% peracid
FUTUR, Alkalic	1% Solution [pH 9,5]

7. Maintenance



Notification!

Failing to comply with periodic maintenance may result of degrading of product function and safety.



7.1 Periodic maintenance

Component	Maintenance activity	Maintenance interval	Registration date of maintenence
Geberit Sigma 12 cistern	Descaling / change of worn components	6-12 months dependent on calcium content in water	

7.2 Calibration of actuator

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

Press and hold both UP and DOWN on the hand control (▲ ▼) until the control unit has beeped approx. ten times. Then adjust the product to the bottom position by pressing DOWN on the hand control until movement of both columns are in the lowest possible position.

Components part list



Notification!

Ropox will make parts list and circuit diagrams 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.

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
Frame	Steel
Cistern	Hard plastic
	Polystyrene
Covers	Hard plastic (ABS/PMMA)
Height adjustable toilet support arms	Steel



10. Electromagnetic compatibility

10.1 Suitable Environments

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

10.2 Adjacent and stacked use

Warning!



Use of this equipment adjacent to or stacked with other equipment should be voided 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

10.3 Cables

Cable component	Length
Power cable	1,2m
Hand control spiral cable	Wireless

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.

10.4 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 could result.



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11 Accident reporting

The manufacturer of this product recommends any accident with this product that meets all of the following criteria reported to the appropriate authority as well as to the manufacturer.

- 1. There has been or could have been an event
- 2. The medical device is considered to be a contributing factor to the case, and
- 3. The event resulted or could have resulted in one of the following outcomes:
 - death a patient, a user or a third's death
 - A serious deterioration of a patient's health, a user's or third country's health status in the form of:
 - o 1. Life-threatening disease
 - o 2. lasting damage or injury
 - o 3. Necessary medical or surgical treatment to divert life-threatening illness, permanent injury or mischief
 - o 4. fetal death, fetal injury or congenital abnormalities.





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