

User Manual

ROTOBED®FREE



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1. Introduction and general information

Thank you for choosing to buy a RotoBed®Free.

RotoBed®Free is a high quality product that will serve you as an aid for many years to come with proper use and maintenance. To get the most out of your bed, please read this manual carefully. The same applies to any other persons, such as carers or relatives who are going to operate the bed.

It is important that anyone who is to service or clean the RotoBed®Free bed is aware of the safety section. This is especially true if at any time there are children in the immediate vicinity of the bed.

Please note the warranty section, including what to comply with in order to maintain the warranty.

This manual may contain inaccuracies or typographical errors. The information contained herein is regularly updated, and changes to product care and others may be enrolled in later editions. Changes and improvements without notice may occur. For information, please contact us.

In addition to this guidance and the applicable country's accident prevention rules, a RotoBed® must always be used in accordance with recognized rules for safe and professional work.

Please contact us if your needs change after the purchase of the care bed. We have a wide range of accessories that can help make the RotoBed® bed an optimal tool for you.

We hope that your new nursing bed will give you increased comfort, mobility and quality of life.

1.1. | What RotoBed®Free can do for you

People who are struggling to get into or out of the bed themselves can, with a RotoBed®Free, become self-reliant and manage entry and exit without physical effort.

By holding down a single key on the remote control, the bed is raised to chair position and rotated towards the room. This facilitates both exit and potential transition to a wheel-chair or stand up hoist. The movement takes less than a minute.

RotoBed®Free helps the user maintain mobility and supports the user's standing function. The bed makes the user more self-reliant and reduces the trouble and pain of getting up and going to bed.

The patient surface is 4-sectioned, and entry and exit is possible on both sides of the bed.

In addition to the rotary function, RotoBed®Free features electrical adjustment of height, backrest and leg parts. It is also possible to individually store backrest inclination and exit angle.

2. Before commissioning

2.1. | Reception

- Check that all ordered parts are free of defects at reception. Damage that has occurred during transport must be notified immediately upon delivery.
- Do not acknowledge receipt before the entire delivery has been reviewed. If there is any doubt as to whether there is damage to the delivery, it must be received subject to the receipt.
- Contact the manufacturer or dealer if the product is damaged, if it has other visible signs of defects or if the bed is not working.

2.2 | Placement

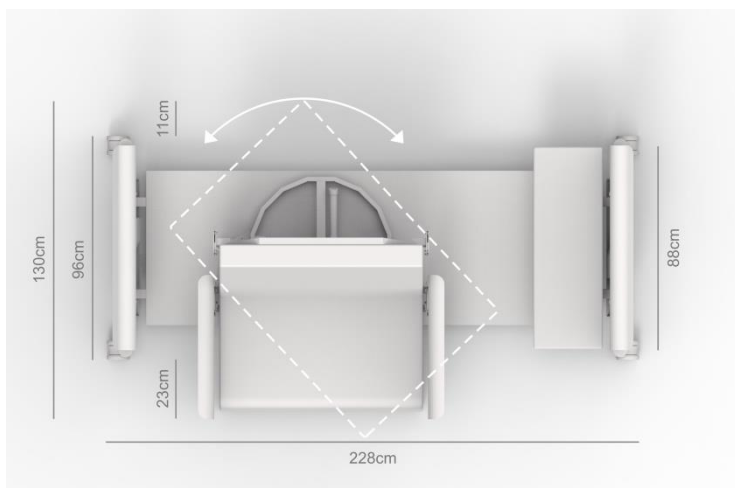


Illustration of the bed's dimensions and space requirements.

Be aware that it is possible to store the inclination of the backrest during rotation.

Standard delivery setting is a 45° inclination and a distance to the wall of at least 11 cm. Inclination can be stored between 35° and 55°.

The chosen inclination will affect the required distance to the wall during rotation.

Select the correct location for the bed:

- Provide sufficient distance to wall / furniture, taking into account the movements of the bed.
- Place the bed near a wall outlet to prevent free cables / fall risk.
- If a lifting pole is mounted on the bed, ensure sufficient free ceiling height with the bed in the highest position.

3. Commissioning

3.1 | Mounting of the mattress

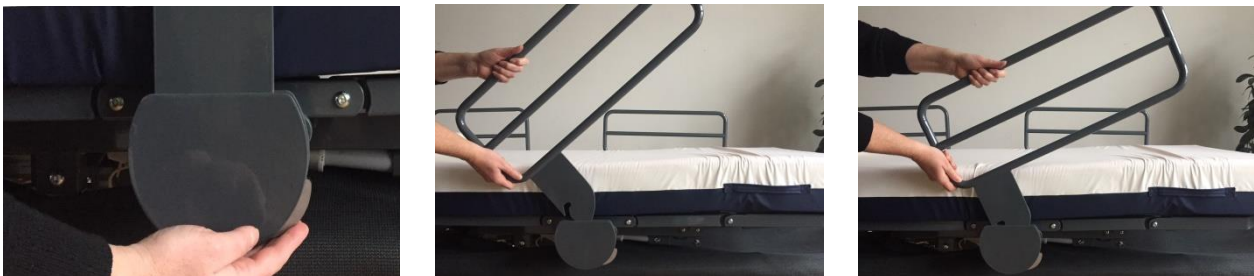
A RotoBed®Free bed comes with a mattress consisting of a main part and a foot part.

The main mattress has 5 buttons on the back.

- First place the three lower buttons in the grooves at the bottom of the bed.
- Slide the mattress towards the foot end.
- Now press the two buttons in the centre of the mattress into the corresponding holes in the middle of the bed.
- Similarly, the foot mattress has two buttons, which fit into the two round holes in the bed.

3.2 | Mounting of side rails

RotoBed®Free can be delivered with side rails made of metal or oak veneer. Regardless of material, the side rails are mounted and removed in the same way:

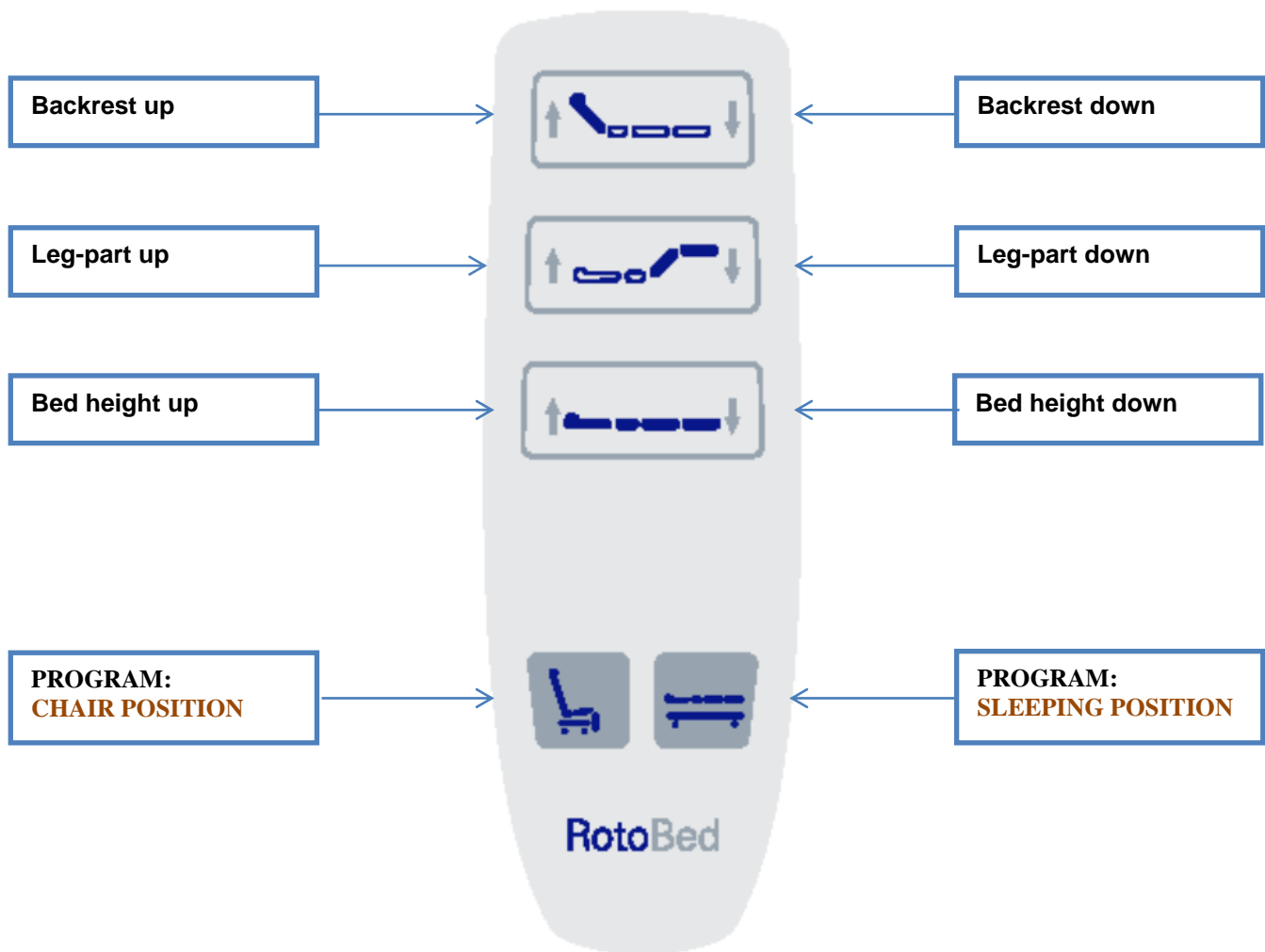


Press the small fitting underneath while lifting the bed rail.

The side rails can simply be put back into place and will automatically lock.

NB! The side rails should only be mounted or not mounted. Do not leave them upright and loose. This may cause squeeze risk and damage to the bed during rotation.

3.3 | Remote control



To operate the bed, hold down a key. When you release the key, the movement stops. Only press two keys simultaneously when you want to reprogram the bed.

RotoBed®Free can be programmed to turn either right or left. Therefore, the remote control can also be connected to both the right and left sides of the bed. Optional remote control can be purchased as desired. When the remote control is not in use, place it on the side rail.

3.4 | Operating RotoBed®Free



Before use:

Hold down the **Chair Position** key until the bed stops in exit position. As standard, RotoBed®Free is programmed to run to an oblique exit position to facilitate transfer to a wheelchair or walker. If you wish a perpendicular exit, do as follows:

Hold the program keys **Chair Position** and **Sleeping Position** for 5 seconds until a beep sounds. In future, the bed will automatically move to a perpendicular exit. In order to go back to oblique exit, repeat the procedure.

NB:

To store bed height, see [Individual storing of bed height](#)



Entry

Get seated as close to the backrest as possible for the best comfort. Hold down the **Sleeping Position** key until the bed is rotated and horizontal. Now, RotoBed®Free works as an ordinary care bed.



Exit:

Hold down the **Chair Position** key until the bed stops in an exit position. To facilitate exit you can, by means of the remote control, move the backrest the last bit forward and raise the bed a little in height.



Individual storing of bed height:

The standard height is 32 cm above the floor. If desired, you can store your favorite bed height (exit height) individually.



Raise and store bed height:

Move the bed to exit position. Use the height key to find the desired height. The height can be stored by holding both height keys simultaneously for 10 seconds until a beep sounds. In future, the bed will automatically move to the stored height each time you activate the Chair Position key.

Lower and store bed height:

Move the bed, inside the bed frame, to the lowest position and hold both height keys simultaneously for 10 seconds until a beep sounds. Then move the bed to the exit position (it will now be very low, 32 cm above the floor). Find the new desired entry height and repeat the 10 seconds press of the height keys. Now the new height is saved.

Change stored bed height:

Repeat procedure for lower bed height.

Individual storing of backrest inclination:

Move the backrest to desired inclination during entry and exit. Press both backrest keys simultaneously for 10 seconds until a beep sounds. In the future this will be the inclination when using Chair Position and Sleeping Position. Standard delivery inclination is 45°.

3.5 | Important documents & video material

The following documents have been prepared for this bed:

User Manual

This instruction manual describes all aspects of the bed.



This applies to both safety and cleaning, commissioning and instructions in relation to the location and use of the care bed. General information about assembly, service, warranty and maintenance can also be found in the User Manual.

Quick-guide



The Quick Guide is a brief and focused instruction on how to help the user enter and exit the bed using the remote control. The guide is intended for users, staff and relatives. It is recommended that the guide is available at the bed in daily use.

Video material



Video instructions for service and assembly can be found on www.rotobed.com/downloads.

4. Intended use

4.1 | Purposes and standards

RotoBed®Free is designed to help users with physical and / or psychological constraints.

RotoBed®Free facilitates entry and exit for the user and reduces the workload for assistants in connection with care and transfer.

RotoBed®Free is used in care centers, home care and private homes.

According to the standard for hospital and care beds (EN-60601-2-52), the intended use environment for a RotoBed®Free is as follows:

- **Application Environment 3. (201.3.203)**

Long-term care in a medical environment, where monitoring and measurement can be performed with other medical devices equipment. This includes care centres, rehabilitation centres and the like.

- **Application Environment 4. (201.3.204)**

Used in homes or home care, where equipment is used to relieve or to compensate for an injury, disability or illness.

- **Application Environment 5. (201.3.205)**

Used for outpatient treatment in hospital or in another medical centre environment where equipment is needed for the treatment, diagnosis or monitoring of persons with injury, disability or illness.

4.2 Limitations

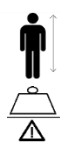


- Users with physical or mental constraints must not operate the bed's electrical functions unless the staff allow it and the user has received thorough training.
- Users who are considered suicidal should not use the bed unattended.

4.3 Maximum load



RotoBed®Free may be used only by persons within these values:



Height: Minimum 146 cm



BMI: Body Mass Index 17 or more



Rated load: 225 kg.

User weight: Min. 40 kg/ max. 190 kg.

5. Security

5.1 Security during use



- Always read the instruction manual before use and follow the instructions.
- When adjusting the bed's positions, all objects and persons, especially children, must be kept clear of the moving parts of the bed.
- The bed should only be raised in height when this has a purpose, such as care. Apart from this, the bed should be set in a comfortable exit height.
- The entire body of the user must be within the patient surface.
- Be aware that the bedding does not get caught in the moving parts of the bed while adjusting the bed's positions.
- The connecting cable must be free of the rotation mechanism and height adjustment and capable of moving while adjusting the bed positions.
- Adjust the bed positions based on the instructions in this manual.
- A RotoBed®Free must not be used lifting / rotating anything other than the user.

- The bed should only be used by a person who has sufficient mobility and cognitive understanding to utilize the bed's functions and avoid accidents.
- Staff should always assess the physical and mental condition of the user and the ability to use the bed safely.
- The rotary function must not be used with more than one person in the bed.

5.2 | General instructions



- Regularly check the power cable for damage. In case of obvious damage, turn off the power supply and seek professional advice.
- The RotoBed® engines meet all relevant standards and norms. Electrically adjustable beds use extremely powerful engines. To prevent overload or damage to the bed, it is important to follow the regulations when operating the engines.
- The remote control must always be available and located correctly. Keep in mind that the remote control does not clamp between the moving parts of the bed, as this may cause the keys to be activated without the intention.
- The castors must be locked unless the bed is to be moved. This is to prevent the bed from moving during exit and entry.
- Avoid free wiring on the floor. You can stumble on these and thus disconnect the power without intention.
- The mattress is best protected by using the semi-impermeable cover in stretchable incontinence foil.

5.3 | Children



RotoBed® wishes to draw users attention to the potential dangers of children who play in and around the bed. Children are naturally curious. They find beds with moving parts exciting, but due to the powerful engines, the bed is absolutely not suitable as a toy. In case of improper use there is a risk of getting squeezed. The following must therefore be emphasized:

- Do not let children play with the bed and its remote control / functions.
- Inform visitors and persons responsible for children about the potential safety risk.
- Children who stay close to the bed must be guided and not left alone.
- Place the remote control away from curious eyes and hands.
- Disconnect any power supply if deemed appropriate.

5.4 | Squeeze risk



- When the bed's functions are operated, the moving parts of the rotary bed constitute a squeezing hazard.
- When adjusting the bed's positions, all objects and persons, especially children, must be kept clear of the moving parts of the bed.
- Keep an eye on the bed while operating the functions.
- Be aware that no persons or things can be squeezed when the bed is lowered in height.

5.5 | Fall risk



- The bed should only be raised in height when this has a purpose, such as care. In addition, the bed should be set in comfortable exit height. For physically restless users, it is recommended to keep the bed in the lowest position (32 cm).
- Use bed rails when there is a risk that the user falls out of bed.

5.6 | Topple risk



- Always observe the maximum load of the bed (225 kg)
- Move the bed to the lowest height before transport. This prevents rollover risk.
- Pay particular attention when transporting the bed on an uneven surface. This increases the risk of the bed falling over or that parts of the bed are damaged.

5.7 | Castors and brakes



Unlocked castors

As standard, the bed comes with integral Tente Linea double castors. The castors are rotatable.

The brakes work in pairs and can be operated from both sides of the bed.

The castors should only be unlocked for transportation of the bed.



Locked castors

5.8 | Use of accessories



RotoBed®Free and accessories are nationally assessed and approved according to EN60601-2-52 standard. The standard contains essential requirements for the combination of bed and accessories such as mattress, bed rails, lifting pole etc. It is the responsibility of the staff to ensure that bed and accessories are assembled and used according to the manufacturer's regulations.

- The staff must always make an overall safety assessment of the bed and the chosen accessory before introducing a user to the bed.
- Always read the operating instructions before using the bed. Incorrect use of the bed and the manufacturer's approved accessories may pose a safety hazard.
- Do not use third party accessories or mattresses without the manufacturer's approval. Violation of this may pose a safety hazard.

5.9 | Side rails



The bed is approved and tested with removable, two-piece side rails, which are placed in the middle and in the bed's head end. The side rails offer the user safety and prevent falls. They can also be of help during entry and exit, leading to increased mobility for the user. The side rails can be delivered in two variants; one in wood and the other in metal. Side rails are recommended for safety reasons.

- Do not use any other side rails than those constructed for the bed. Mount correctly.
- Be aware that the user does not try to crawl over the side rails to get out of bed. This will pose a risk of fall injuries.
- If the user is uneasy, physically restless or tends to have involuntary movements, upholstery for the bed rails can be purchased. See RotoBed®Upholstery under Accessories.

5.10 | Lifting pole



RotoBed® can be delivered with a lifting pole which can be mounted freely on the right or left side of the bed's head. The grip is provided with a roller belt for height adjustment to the individual user.

- Maximum load of lifting pole: 75 kg.
- Always check the ceiling height before installing the lifting pole. There must be about 220 cm of free ceiling height with the bed in its highest position.
- The lifting pole must be removed during transport of the bed.
- Do not use the lifting pole outside the bed frame as this may constitute a rollover risk.
- Before use and for continuous maintenance, check the lifting pole for damage to the roller belt's stitches and cracks in the grip.

5.11 | Mattresses



RotoBed®Free can be delivered with different types of mattresses with pressure ulcer prevention in stages 2,3 or 4. The mattress will consist of two parts; a main part and a foot part. All mattresses are specially designed to fit the RotoBed®.

- No third-party mattresses may be used without the manufacturer's approval as they are not fitted to the bed and may therefore constitute a safety hazard.
- Remember to attach the mattress to the bed as per the regulations (see assembly instructions page 5). Failure to fasten the mattress can cause the mattress to not follow the bed's movements or slide off the bed. This will pose a security risk to the user.

5.12 | Electricity safety



The electrical parts of the bed must not be changed. Make sure the locking-ring is fitted by plug.



- Be sure to hang the remote control on the side rail when not in use, so that it does not brake or falls to the floor.
- Make sure that the remote control and its cord do not get caught between the moving parts of the bed while in use.
- Avoid free wiring on the floor. You may stumble into them and / or drive them over.
- Before use and service / maintenance, check all electrical wiring, power supply and connection for cracks or other visible damage.

5.13 | Transportation of the bed



- Unplug the power cord before moving the bed. If the power plug has a power switch, turn it off first and then unplug it.
- Ensure that no wires or cables, such as the remote control, may clamp or otherwise be damaged during moving.
- Lock the castors when moving the bed.
- Do not move the bed in the raised height as this increases the risk of toppling.
- Be aware of lifting pole, bedside lamp or other accessories mounted on the bed.
- Always remember to reactivate the castors's brakes when the bed is moved.

6. Cleaning

6.1 | Manual cleaning

Metal parts

- All surfaces can be cleaned with a soft damp cloth and mild detergent.
- Wipe with a cloth moistened with clean water and dry again.
- Make sure all the bed's parts are dry before putting the mattress back onto the bed.

Wooden parts

- Use cleaning and care products designed for wood furniture.
- Make sure all the bed's parts are dry before putting the mattress back onto the bed.

6.2 | Disinfection



A RotoBed® care bed must be disinfected regularly and ideally for each new user to prevent disease infection. The bed is classified IPX6W and can be cleaned in a washing system or it can be cleaned manually according to the following requirements:

- Always disconnect the power supply before cleaning.
- Use gloves and possibly protective clothing when performing cleaning procedures.
- Do not use hypochlorite or phenolic based cleaners.
- Do not use abrasives or pastes.
- Do not clean the bed at high pressure, neither manually nor mechanically.
- Be careful not to touch actuators during use and cleaning. After prolonged use the actuators can become very hot.
- In case of visible dirt, clean the bed first, see section on manual cleaning.

For disinfection between two users, clean with sodium hypochlorite or the like (up to 1000 ppm active chlorine). For decontamination (removal of potentially infectious material such as body fluids or infection from a known infected user), the bed should then be cleaned with sodium hypochlorite or the like (up to 10,000 ppm active chlorine).

Medium antimicrobial effect ("intermediate-level")	Alcohol***	70-85% v/v ~ 63-80% w/w	Waste: Surfaces contaminated with vegetative bacteria, mycobacteria, capillary and certain non-capillary viruses as well as most fungi.
Minimal antimicrobial effect ("low-level")	Products with low concentration of chlorine. Various blend products containing, for example, hydrogen peroxide, biguanides and quaternary ammonium compounds	<100 ppm hypochloric acid>	Doubtful indication, as products in this group are estimated to have limited additional efficacy compared to cleaning with common detergents

6.3 | Cleaning in washing system



When cleaning in washing systems, make sure to take the following precautions:

- Unplug the power plug. Remove all fabrics (including mattress and covers) as well as all parts of wood.
- All plug connections must be sealed with a plug cover.
- All plugs and plug covers must be fitted with locking-ring (see section 5.12) to prevent water from entering the engines.
- Drive all engines fully down/in (so no engine arms protrude) to prevent lime and rust formation
- The electrical parts of the bed and mechanical functions must be tested before using the bed again.

NB: The supplied standard castor for a RotoBed® care bed has not been tested for cleaning in washing systems. Unless the castors are removed before washing, shorter lifespan should be calculated. Alternatively, special wheels can be purchased, which have been tested for a washing system.

RotoBed® points out that washing in machines will cause the bed to age faster over time.

7. Service and maintenance

RotoBed® care beds do not require much maintenance, but it will minimize any problems to keep the bed clean and follow the instructions for use and cleaning. RotoBed recommends annual lubrication.

1. Control of electrical parts

- Check all cables for damage.
- Check the power plug condition.
- Check the remote control functions.

2. Control of mechanical parts

- Check all frame components for wear, damage and corrosion.
- Check that backrest and leg parts are running smoothly and at full power using the remote control.
- Check that the lifting engine is running smoothly and for full power.
- Check that the rotary engine is running smoothly and for full power.
- Check that all joints (nuts, screws, etc.) are fastened, but still movable.
- Check the lifting pole (if mounted).
- Apply Teflon Spray to all moving parts and remove excess grease. (See instruction page 25).

3. Control of castors

- Check that all castors have free movement and rotate satisfactorily.
- Check the brake function.

4. Control of side rails

- Check the function of the side rails
- Check the side rail grips for damage.

Guide for lubricating the bed

Annual lubrication is recommended. Instruction:

Move the backrest to an upright position. **Make sure to fix** it before you start removing bolts, otherwise it will fall down.



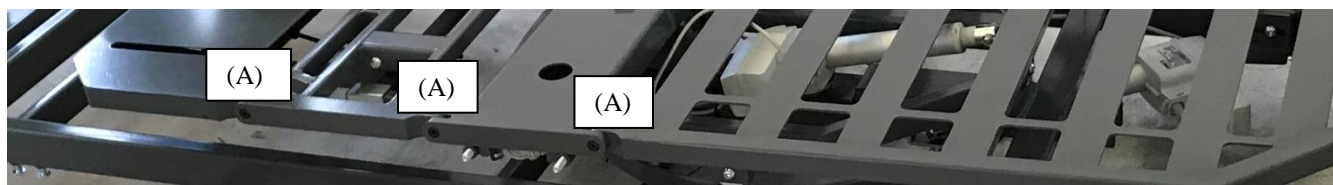
- 1) Remove the upper clips
- 2) Remove the bolt



- 3) Apply grease (see below right)
- 4) Insert the bolt and clips again



- 5) Follow the same procedure with the bolt at the other end of the motor.



All the moving parts (A) where the frame is connected must be sprayed with Teflon. **Very important:** do not tighten the nuts/bolt (A) too much; they must be a little bit loose. Repeat the procedure on the other side of the bed.

Raise the leg-part to a horizontal position, find the point where the bolt at the foot-motor is loose.



Now follow the same procedure as for lubricating the backrest:

- 1) Remove the upper clips. 2) Remove the bolt. 3) Apply grease. 4) Reinsert bolt and clips.
- 5) Follow the same procedure with the bolt at the other end of the motor.



Gas spring: Remove the bolt and nuts. Apply grease to the bolt and reinsert it. Follow the same procedure at the other end of the gas spring – and on the gas spring on the other side. **Very important:** do not tighten the outer nut (B) too much; it must still be a little bit loose.



Spray some Teflon into the U-Profile (under the leg-part) on both sides.

Use following grease or similar type: OKS 470 – White Universal High-Performance Grease

Description: Universal grease with white solid lubricants and NSF H2 approval - Lubrication of normal-load friction, rolling and pivoting bearings - Lubrication of moving parts at fine-mechanical devices – Waterproof.

Use following Teflon Spray or similar type: Würth HHS 2000 Lubricating Oil 500ml (spray)

Description: High-pressure resistant- Extraordinarily tear-resistant lubricating film with outstanding noise and vibration damping properties - High creep capacity - Excellent lubricating properties with close tolerances - Reliably protects against corrosion - Active adhesive effective. No throwing off of the lubricant with turning and rotating parts - Splash and saltwater-resistant, withstands weak acids and alkaline solutions - Contains no silicone, resin or acid.

8. Warranty

RotoBed®Free is a high quality product which is to ensure many years of trouble-free use.

RotoBed offers a three-year warranty provided that the bed is purchased from new and that the instructions in this manual are followed.

This warranty covers spare parts and repair of defects in the product during this period, unless otherwise stated in the sales agreement.

The warranty covers problems due to defects in the design or production of the bed - however, only if the bed has been used in accordance with these instructions. Faults and defects that arise during the warranty period must be reported immediately to the dealer or manufacturer, which will determine if the bed is to be repaired, replaced or discarded.

Incorrect use of the bed, abuse and accidental damage is not covered by the warranty, and in that case there will be a fee for the repair. A minor breach of warranty will not affect the continuation of the warranty. Under certain circumstances, actions that cause fundamental damage to the bed will lead to invalidation of the warranty for the remainder of the warranty period.

Events that are not covered by the warranty include:

- Damage caused by overload or improper use of the bed.
- Damage caused by washing or cleaning where the cleaning instructions are not followed.
- Damage caused by missing or improper maintenance.
- Accidental damage to the remote control, for example, if it is lost in liquid or driven by a wheelchair.
- Damage to cables caused by, for example, being driven over or caught in the moving parts of the bed.
- Damage to mechanical or electrical parts under the bed due to incorrect use of lifting or hoisting equipment.
- Damage to mattress and upholstery for any reason.
- Damage to the wall or adjoining furniture due to improper placement of the bed.
- Damage to the electrical outlet for any reason.
- Damage caused by electrical parts being opened or used improperly.

The bed is designed and tested to carry a defined maximum weight. Maximum user weight and label load are stated in the manual and must not be exceeded.

The above are examples, and the list is therefore not readable as all-encompassing.

Wood is a natural product and undergoes a natural aging process. Over time, environmental impacts such as humidity, heat and UV radiation will cause changes in the surface of the wood. Changes caused by natural aging are not covered by the warranty.

9. Life expectancy

The bed has an expected lifetime of 10-15 years depending on maintenance / treatment and provided that the annual service inspection is observed.

The use of beds that are not in good quality and safety condition can lead to dangerous situations.

Use, cleaning, maintenance and service according to the manufacturer's regulations will affect the lifetime of the bed. It will also extend the lifetime when wear parts are replaced as required and according to the manufacturer's instructions.

When using the bed in addition to the manufacturer's expected lifetime, the bed should be continuously quality and safety assessed. This must be done by staff who are competent and trained in evaluating equipment according to the current version of the standard EN 60601-2-52. Knowing the bed's features and safety rules is a prerequisite.

10. Disposal

RotoBed® focuses on recycling and environmentally sound production.

Disposal of beds or bed parts must take into account the environment and must also comply with national legislation.

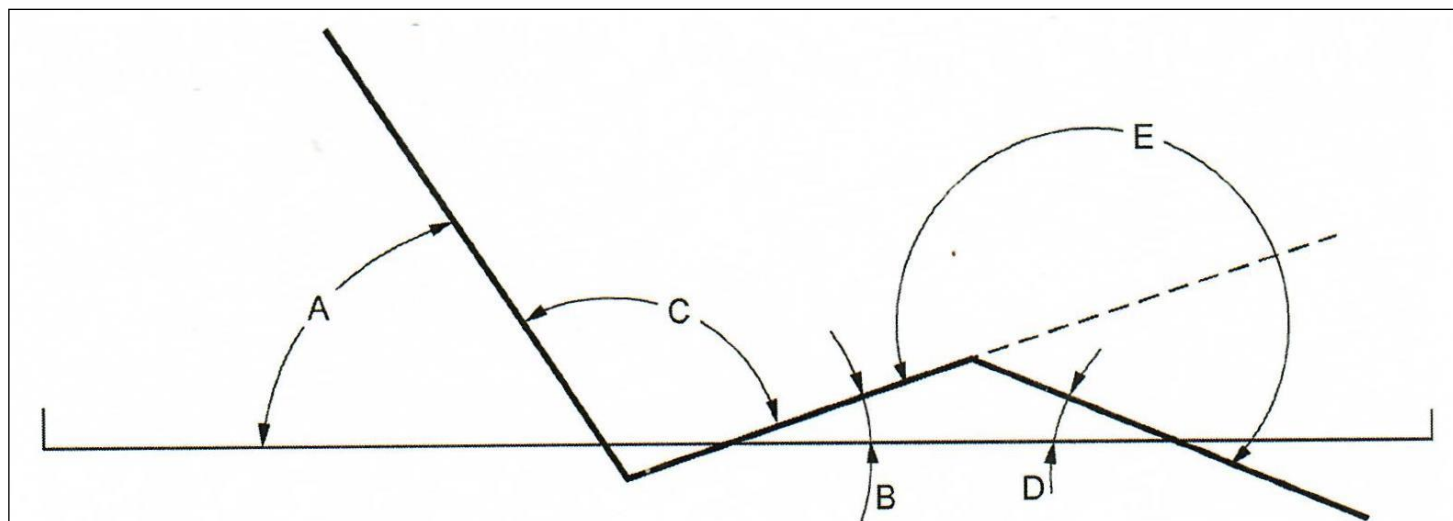
Local authorities can provide information on how and where used equipment can be delivered.

The bed can be divided into waste fractions metal, plastic, electronics and cables.

When disposing the bed can be divided into the following material groups:

PRODUCT	MATERIAL	HANDLING
RotoBed®Free care bed	Electronics Wires and cables Metal Laminate Plastic Tree Textiles	Electronics waste Electronics waste Recycling Burnable Burnable Burnable Burnable
Mattress	Plastic Cold foam Textile	Burnable Burnable Burnable
Upholstery for side rails	Textile	Burnable
Lifting Pole	Metal Plastic	Recykling Burnable

11. Technical info



A = 0-86° | **B** = 0-20° | **C** = 0-74° | **D** = 0-16,7° | **E** = >180°

WEIGHT AND LOAD	
User weight max	190 kg
Rated load	225 kg
Accessories max	35 kg
Headboard	39 kg
Footboard	46 kg
Frame	80 kg
Total weight	165 kg

PATIENT SURFACE (4-sectioned with electric setting)	
Length (mattress)	205 / 215 / 225 cm
Width (mattress)	85 / 100 cm
Height of patient surface, min/max	From floor to patient surface 32-82 cm

BED (outer measure)	
Length	228 cm
Width	96 cm
Free space over floor	15 cm

CASTOR SYSTEM	
Braking system	Works in pairs
Castor type	4 Tente Linea double castors
Castor diameter	100 mm

12. Troubleshooting

	SYMPTOM	POSSIBLE CAUSE	HANDLING
1	The bed does not respond to the remote control.	The remote control is not connected to the bed.	Plug the remote control into the control box.
2	The remote is connected, but the bed does not respond.	Is defect	Replace remote control and associated cable.
		The engine of the bed is not adjusted and does not work for that reason.	Check that all sockets are properly installed and that the power is connected to the bed. Use the remote control reset function, see "Reset motors".
		May occur after service or if engine plug has been removed.	Use the remote control reset function, see "Reset motors".
3	Only some of the electrical features respond when pressing the remote control	Cable is plugged into the wrong control box	Plug cable in the correct control box
		Motor is damaged	Change defect part
		Remote control is defect	Change defect part
		Control box is defect	Change defect part
4	The bed says a strange sound when set with the remote control.	Motor is damaged	Change defect part
		Wires or parts are clamped	If the cord or bed parts are damaged, replace the part. Send bed for service.
5	The bed can not be moved up or down.	Engine has lost its "position".	Check that all plugs are properly installed and that the product is powered. See "Reset of motors".
6	The patient surface is skewed when set in height.	The bed is or has been overloaded.	Stop using the bed. The bed needs to be serviced.
7	The motors often have to be reset.	Possible defect on connected devices.	Check if control box or any of the connected devices such as actuators, remote controls, cables, etc. are defect.
		Control box is defect.	
8	The bed smells warm or runs irregularly.	The bed is overloaded.	The bed needs to be serviced.

13. Reset of motors

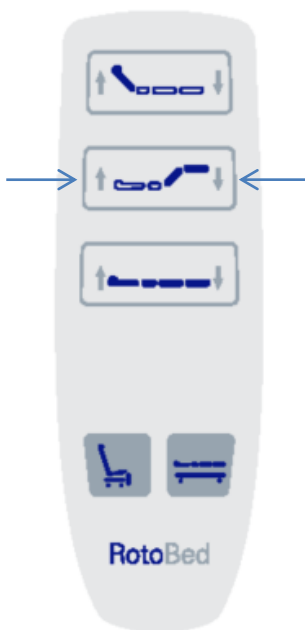
If the bed is not working as expected, it can be reset via the remote control.



NB! If the bed is equipped with side rails, these must be removed before the reset process is started.

NB! In the event of disconnection of the motor cable, it may be necessary to reset the system.

To reset the bed, do as follows:

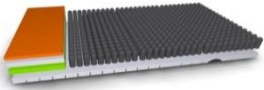
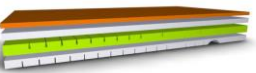

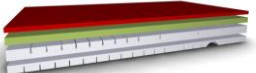

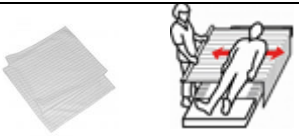
















- Simultaneously press both sides of the leg-part key on the remote control (leg-part up + leg-part down)
- Keep pressing the buttons until:
 - the bed is inside the frame
 - the backrest is in the lowest possible position
 - the bed height is the lowest possible.
- This procedure lasts up to 90 seconds. It is completed when you hear 4 short beep sounds.
- The bed is now reset and ready for use.

If the need for reset is frequent, the bed should be serviced.














14. Accessories












RotoBed® offers a vast variety of accessories for RotoBed®Free. A large part of these high quality accessories are specially designed for RotoBed® in order to ease the user's everyday life even more.

ACCESSORIES FOR ROTOBED® CARE BEDS		
RotoBed® ROHO® Dry Flotation Mattress		2-layer mattress with proven efficacy in the prevention and treatment of pressure ulcers in all four stages. Optimal prevention and healing conditions for users at high risk of pressure ulcers.
RotoBed®SafeSleep Mattress		4-layer quality mattress. Prevention and treatment of pressure ulcers in stages 1-3. Recommended user weight: 40 – 120 kg.
RotoBed®ErgoSleep Mattress		2-layer quality mattress for all-round use and for prevention and treatment of pressure ulcers in stages 1-2. Recommended user weight: 60 – 140 kg.
RotoBed®BariaSleep Mattress		4-layer quality mattress with proven efficacy in the prevention and treatment of pressure ulcers in stages 1-3. Recommended user weight: 120 – 190 kg.
RotoBed®RotoSlide		A slide sheet designed for people with difficulty turning over in bed. Can be used in combination with RotoBed® RotoSlide 2way in connection with transfers.
RotoBed®RotoSlide 2-way		Sliding sheet facilitating sideways transfers in the bed. Slides in two directions. Use in combination with RotoBed®RotoSlide.
RotoBed®RotoTurn		Sliding and turning system with integrated locking function. Specially adapted to RotoBed® care beds.
RotoBed®Protection Cover		Mattress cover made of supple, stretchable foil. Semi-impermeable, washable at 60°C. The upper part can be zipped off for washing.
RotoBed®Sheet		Set consisting of sheet for both main mattress and foot part. Soft stretchable cotton, washable at 60°C.
RotoBed®Pillow		Pillow made of thermos-elastic foam. Width 80 cm, covers the entire width of the bed.
RotoBed®Pillowcase		Pillowcase for RotoBed®Pillow. Attachable at backrest. Made of soft, stretchable cotton, washable at 60°C.

RotoBed®Underbed Light		Two soft spotlights will turn on whenever the RotoBed® is rotated towards exit position. When the bed is rotated back, lights will go out. Underbed Light is mounted on the bed.
RotoBed®Light Package		When RotoBed®Home rotates, a soft light under the bed will turn on – as well as any lamp you choose in the room. When the bed is rotated back, lights go out. The external lamp is connected to the system by a plug.
RotoBed®Lifting pole		Including handle with seat belt. To be placed in the bed's built-in holders, in either the right or the left side of the bed.
RotoBed®Upholstery for side rails		Rembourrage pour barrières de lit, couvre les deux barrières. Matière: Tissu de qualité de la société danoise Kvadrat, composé à 51% de plastique recyclé. Lavable à 60 ° c.
RotoBed®LED Lamp		A installer dans le dispositif de maintien au lit, soit à gauche, soit à droite.
RotoBed®Battery Back-up		Lithium Battery - Covers approx. 10 x cycle without power
RotoBed®Bedside table Design by Hans Sandgren Jakobsen		Round table in oak veneer, diameter 30cm. Height adjustable and swivelling.
RotoBed®Trolley		Bed carrier for vertical transport/storage of bed.
RotoBed®RotoLift®		Elevates RotoBed® to vertical position with no physical exertion. To be used in combination with RotoBed® Trolley. CE-marked, approved by the Danish Technological Institute.

15.Type plate and symbols

	Roto Bed, Storegade 44 DK-6640 Lunderskov Phone +45 7550 5025		2018 - 02
	2018200160-0001	 190 kg.	 ≤ 140 cm.  BMI ≥ 17
	= 190 kg.		= 225 kg.
    	IPX6W Int: <10%, max. 2 min. ON / 18 min. OFF I in max. 2A, 100/240VAC, 50/60 Hz		

	CE approval Directive 93/42 / EEC medical devices		User Manual
	Serial number		Be aware, take care. See accompanying documentation.
	Type of BF equipment (EN-60601-1)		Maximum user weight
	Double isolation, no earth wire needed.		Rated load
	For indoor use		Manufacturing Date
	Manufacturer	IPX6W	Water rating (Washable)

EC Declaration of Conformity (DoC)

In accordance with the EC Medical Device Regulation (EU) 2017/745.

The manufacturer:

RotoBed ApS
Storegade 44
DK-6640 Lunderskov
Tel.: +45 7550 5025
e-mail: info@rotobed.com
www.rotobed.com

hereby legally binding declares that the products:

<A> Object of declaration

Nursing home bed, Turning bed, Rotational bed, Standup- and Mobilization bed and accessories.

RotoBed®Care

RotoBed®Free

And accessories, se full product assortment on next page

 Conforms to council directives

- Corresponds to the relevant provisions of the EC Medical Device Regulation (EU) 2017/745 and the Danish implementation of this Directive
- Are classified in Class I for Medical Products
- Are carried out in accordance with the requirements of the quality management standard: DS/EN/ISO 13485:2016.
- Complies with the Risk management standard: DS/EN/ISO EN ISO 14971:2012.
- RoHS: 2011/65/EU, as amended by (EU) 2015/863

<C> Conforms to the harmonized standards

IEC 60601-2-52: 2009/AMD1: 2015 – Part 2-52	Medical electrical equipment - Part 2-52: Particular requirements for the basic safety and essential performance of medical beds
EN 60601-1:2006/A1:2013/A12:2014	Medical electrical equipment. General requirements for basic safety and essential performance
EN 60601-1-2:2015, Edition 4:0part 1-2	Medical electrical equipment. General requirements for basic safety and essential performance. Collateral Standard. Electromagnetic disturbances. Requirements and tests
EN 60601-1-6:/2010 AMD1:2013	Medical electrical equipment - Part 1-6: General requirements for basic safety and essential performance - Collateral standard: Usability
EN ISO10993-1:2009 + AC:2010	Biological evaluation of medical – Part 1: Evaluation and testing within a risk management process – Technical Corrigendum 1
2011/65/EU, EN 50581:2012	Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances

<D> Additional Information


Update of version 18.09.2017, the date which the CE marking was affixed for the first time.



If the products are modified without our prior permission, this certificate will no longer be valid

Place / date

Lunderskov / 13.08.2019


Martin Riis Holm
CEO

RotoBed®

Storegade 44 · 6640 Lunderskov · Denmark · Tel +45 7550 5025 · www.rotobed.com · info@rotobed.com · cvr nr. 2558 9580

Test Report

Report No.: 741936 rev 1



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Assignor: RotoBed
Storegade 44
DK-6640 Lunderskov

Page 1 of 1
Laha/prni/hbs
Order no.: 741936
No. of appendices: 2

Subject: Model: RotoBed Care, RotoBed Free

Adjustable beds – ISO classification 18.12.09	
Type: Adjustable beds	
Type: Adjustable bed	Actuators: Linak
	Lower/upper leg: Item no. J16080
	Back section: Item no. J14428
	Turning: Item no. J15595
	Hight: Item no. 31320H+5150032K
Materials: Painted steel and plastic	
Date of manufacture: -	
See Appendix 2.	

Sampling: The test material was sampled by the client and received at the Danish Technological Institute 17-05-2017.

Method: IEC 60601-2-52:2009/AMD1:2015 Medical electrical equipment - Part 2-52: Particular requirements for basic safety and essential performance of medical beds

The following properties are not tested for: Electrical safety, EMC, Acoustic noise, Excessive radiation, Temperatures, Corrosion and Biocompatibility.

The testing was carried out under normal indoor conditions.

Period: The testing was carried out from 17-05-2017 to 25-08-2017

Result: The RotoBed meets the requirements in IEC 60601-2-52:2009.

Individual results appear from Appendix 1

Storage: The test material will be destroyed after 1 month, unless otherwise agreed.

Terms: The accredited test was carried out according to DANAK's general conditions see www.danak.dk and according to the General Terms and Conditions regarding Commissioned Work Accepted by the Danish Technological Institute, which apply at the time of signing the agreement. The test is only valid for the tested specimen. The test report may only be extracted, if the laboratory has approved the extract.

Note: Revision due to 201.7.2.2.101 Detachable parts changed to Passed, 201.7.2.2.106 changed to Passed and 201.7.9.2.2 f) changed to Passed.

Date/place: 18-09-2017, Danish Technological Institute, Wood Technology, Taastrup
Replaces report dated 04-09-2017

Signature: Test responsible

Lars Jeffers-Hansen
Lars Jeffers-Hansen
Pb direct +45 72 20 23 90
E-mail: laha@teknologisk.dk

Co-signatory



741936 rev1 RotoBed Care IEC 60601-2-52 UK.docx

