ROTEC

VersaTech Med-Surg

Our Ultra-Low bed, featuring uniquely designed side rails, exceeds expectations by significantly reducing Fall related injuries



INTELLECTUAL PATENTED PROPERTY

Model V600 ULB / ULB+

User manual

Do not use the bed and its accessories without first reading this entire manual.
Illustrations are for guidance only.

Technical assistance and parts

1 450 783-6444 1 450 783-6446
service@rotecbeds.com
420, route Marie-Victorin,
Baie-Du-Febvre (Québec) J0G 1A0, Canada

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Patents:

This product is protected under US and International Patents & Patents Pending

Manufactured by:



Usine Rotec Inc., DBA Rotec International, DBA Rotec
123 Rue de l'Église
Baie-du-Febvre, QC J0G1A0 CANADA

EU AUTHORIZED REPRESENTATIVE
International Associates Auditing & Certification Limited
The Black Church, St Mary's Place
Dublin 7, Ireland

AUSTRALIAN SPONSOR
AH Essential Limited
PO Box 4, West Ryde
NSW, 1685, Australia

UK RESPONSIBLE PERSON
International Associates Limited
38 Queen Street
Glasgow, G1 3DX, Scotland, United Kingdom

SFDA REPRESENTATIVE
Bayet Nahawand Trading Est.
Office No. 5 Building No:3835 Moussa Bin
Naseer Road, Al Olava Dist.
Rivadh, 12331, KSA

US AGENT
Registrar Corp.
144 Research Drive
Hamptom, Virginia, 23666, United States

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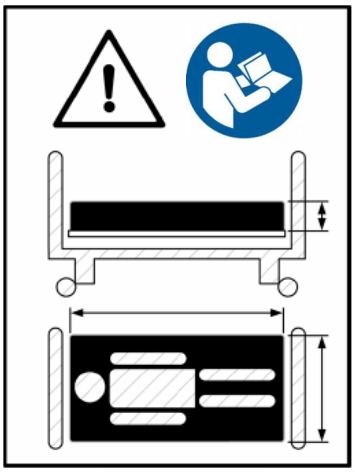
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1. GENERAL

1.1. Symbols

On the device labels



Symbol indicating that the mattress dimensions are very important to respect and to consult the user manual to know the characteristics.



Symbol illustrating the patient's maximum weight allowed on the device.



Symbol illustrating the maximum permissible weight on the apparatus including the patient, mattress and all accessories (IV pole, trapeze, traction frame, drainage bag, etc.).



Symbol indicating to consult the user manual.



Symbol illustrating protection against liquid splashes



Symbol indicating a type B electrical protection.



Symbol illustrating the CSA (Canadian Standards Association) Seal of Approval.



Symbol indicating this is a Class I grounded electrical device.



Symbol indicating that the electrical power must be alternating current.



Symbol meaning that the manufacturer or importer affirms the product's conformity with European health, safety, and environmental protection standards.



Symbol indicating a European medical device.



Symbol indicating a Class I medical device (low risk).



Symbol indicating that the item should not be disposed of in the garbage and must be recycled properly.



Symbol for potential equalization connector.

*For symbols of the keypads and buttons, refer to Section 3

In this manual



Warning:
Used when special attention must be given to the information to prevent injury and/or potential failure.

Abbreviations
CPR: Cardiopulmonary Resuscitation
SWL: Safe Working Load

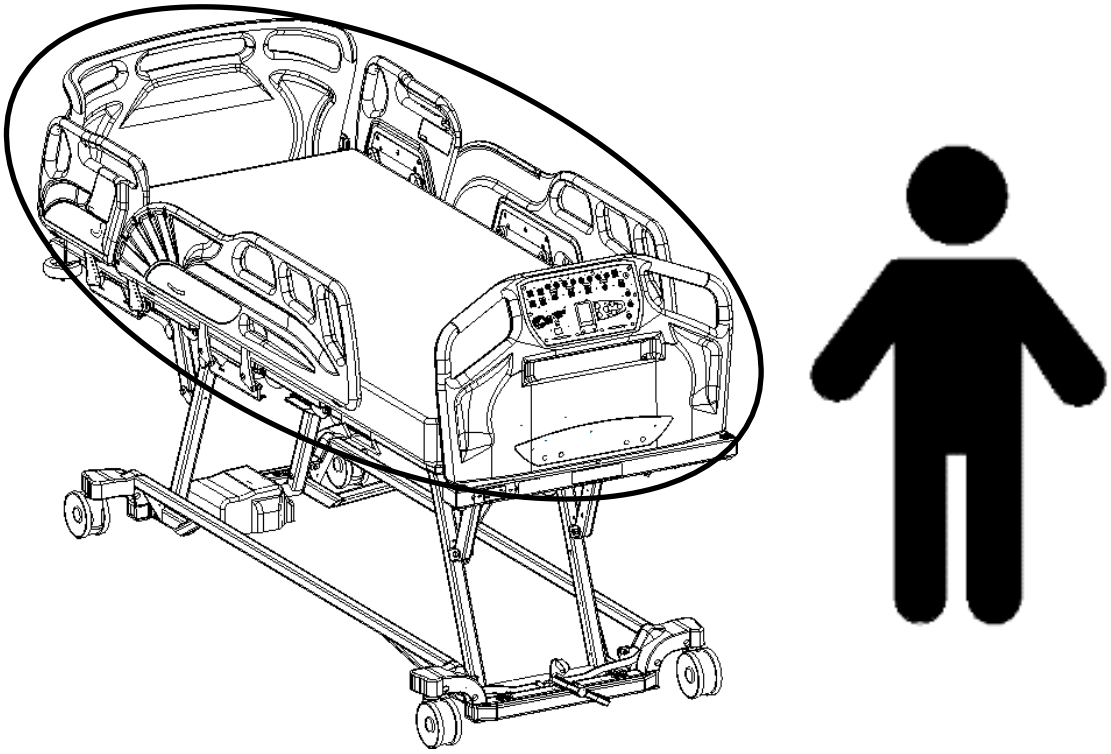
1.2 Intended use

This manual has been designed to assist you in using the VersaTech 600 ULB+ bed from Rotec. Make sure to read this document before using the device to ensure safe and risk-free use.

This manual is an integral part of the device and must always accompany the unit during sale or transfer. It should always be accessible to medical and maintenance personnel.

Domain: This device should never be used in the presence of flammable anesthetic gas mixed with air or oxygen or nitrous oxide. This device is designed for use in medical care environments such as hospitals or other medical facilities requiring medical surveillance and, if necessary, control measures. It is intended for medical procedures, including treatment, diagnosis, supervision, and maintaining or improving a patient's condition. This includes intensive care, ambulatory care, and both short- and long-term medical care. It is not designed for home use. This device must never be used in the presence of flammable anesthetic gas mixed with air, oxygen, or nitrous oxide.

Applied parts: The parts of the device expected to be in contact with the patient and the operator include the headboard, footboard, side rails, interface, platform, and any accessories designed for use with the device.



Patient: Patients are intended to use a subset of the device's functions via internal controls. The device is designed for adult patients over **4 ft (1.22 m) in height** and weighing between **70 lb (32 kg) and 500 lb (227 kg)**. This bed is not designed for patients with behavioral or mental health conditions.

Operator: The operator of this device is expected to be a healthcare professional, such as a nurse, a doctor, or caregiver. The operator must be capable of understanding and applying the instructions provided in this manual. Additionally, it is expected that the patient can access some functions while in the bed.

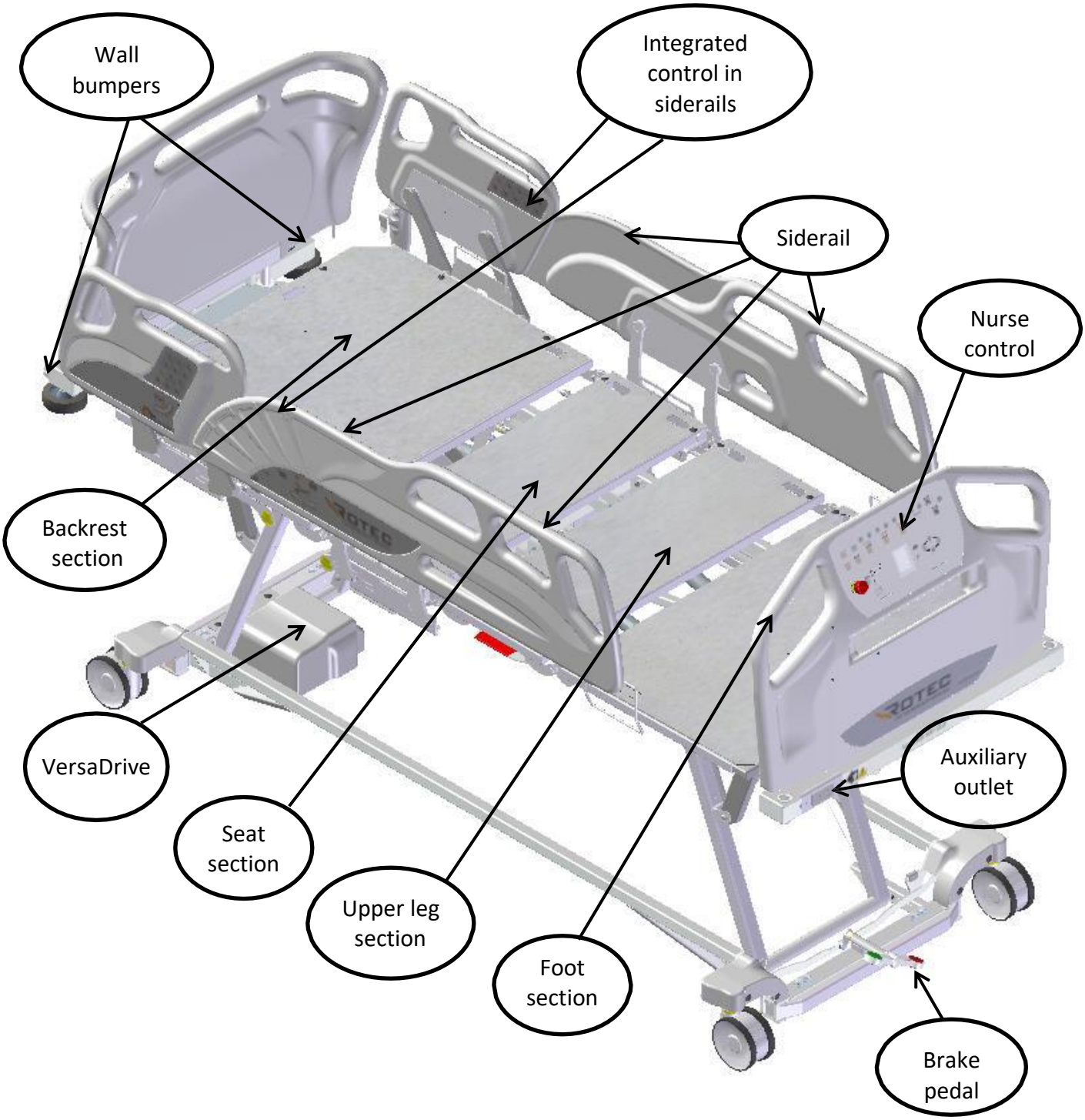
Life cycle: This device is designed for a lifespan of 10 years under normal operating conditions and usage (refer to the specifications and conditions of use in the following sections).

Rotec cannot be held liable for any damage or injury resulting from negligence or improper use of its products. Additionally, all illustrations provided in this document are for reference purposes only.

⚠ WARNINGS ABOUT THE INTENDED USE

- This device is not intended for pediatric use. Using it in such cases presents a serious **RISK OF ENTRAPMENT, WHICH COULD LEAD TO DEATH.**
- It is essential to read this manual thoroughly and ensure proper staff training before using the bed and its accessories to prevent **ANY INJURY** to both the user and the staff.

1.3 Illustration of the device



1.4 Characteristics

- Adjustable height of the bed
- Inclinable bed frame (Trendelenburg)
- Lenght-adjustable base
- Reclining backrest section
- Reclining thigh section
- 2-position manual tilt foot section
- Mobile device on 12.7cm (5") diameter antistatic wheels
- Synchronize brake system with directional function on wheel
- Traction frame receptacle
- IV pole receptacle
- Drainage bag receptacle
- Restraint strap receptacle
- Trapeze bar receptacle
- Power cable holder
- Composite head and foot boards, removable without any tools
- Composite half-rail with integrated angle indicators
- Back up battery for temporary autonomy
- Integrated foot mattress retainer
- Removable hand control.
- Controls in footboard and siderails
- Electrical CPR function
- Mechanical CPR Function
- Auto-contour feature
- Cardiac chair position
- Under bed light
- Nurse call
- Integrated scale and bed exit detection (three zone egress detection)

1.5 Optional features

- Additional hand control
- Transportation trolley
- Auxiliary power outlet

Optional features may change the dimensions.

The dimensions specified herein do not consider manufacturing tolerances.

1.6 Intended accessories

- Mattress, 9 kg (20 lb)
- Trapeze bar, 11 kg (23 lb)
- IV Pole, 0.5 kg (1.1 lb)
- Drainage bag*
- Traction frame*
- Restraint strap *

** product not available by the device manufacturer.*

1.7 Mechanical specifications

Maximum load capacity	
Patient:	227 kg (500 lb)
Trapeze:	77 kg (170 lb)
IV pole support:	10 kg (22 lb)
	5 kg per hook
Total (SWL):	272.7 kg (600 lb)
Device weight without accessories:	245 kg (539 lb)
Overall dimension	
Width:	*102 cm (40 1/4")*
Length:	*237 cm / 247 cm / 257 cm (93 1/8" / 97 1/8" / 101 1/8")*
Dimension of the mattress support platform	
Minimum height:	*21.6 cm (8 1/2")*
Maximum height:	*81.3 cm (32")*
Width:	*88.3 cm (34 3/4")*
Length:	*203 cm / 213 cm / 223 cm (80" / 84" / 88")*
Maximum inclination angle	*70°*
Thighs section:	*30°*
Foot section:	*16°*
Trendelenburg:	*±15°*
Recommended mattress	
Length:	*203 cm / 213 cm / 223 cm (80" / 84" / 88")*
Thickness:	*12.7 to 15.2 cm (5" to 6")*
Width:	*89 cm (35")*

1.8 Certifications

- CAN/CSA-C22.2 No. 60601-1:14
- CAN/CSA C22.2 No. 60601-1-6:11+AMD1:2015
- CAN/CSA C22.2 No. 60601-2-52:11+AMD1:2017
- ANSI/AAMI ES60601-1:2005/(R)2012 - AND A1:2012, C1:2009/(R)2012 AND A2:2010/(R)2012 (Consolidated text - edition 3.1)
- IEC60601-1-6:2006 + A1: 2013
- IEC60601-2-52:2009+A1:2015
- European CISPR 11 :2015+A1 :2016/EN 55011 :2016+A12017, Class A, Group 1

1.9 Electrical specifications

Model:	VersaTech 600 ULB
Insulation:	Class II
Rated voltage:	120/220/230/240 vac
Cycles:	50/60 Hz
Maximum current:	120V model Without auxiliary outlet: 4.5A
	220/230/240V model Without auxiliary outlet: 4.5A

Note that ULB+ model is a Class I device and must be plugged in a grounded outlet. Connecting the device to a supply network that has no grounding terminal increases **RISK OF ELECTRICAL SHOCK.**

Electrical specifications suite

Model:	VersaTech 600 ULB+
Isolation:	Class I
Power:	120/220/230/240 VAC
Frequency:	50/60 Hz
Current Rating:	120V Model With auxiliary outlet: 8.75A 220/230/240V Model With auxiliary outlet: 6.25A
Protection:	IPX4
Duty cycle:	10% maximum (2 min. / 18 min.)
Maximum acoustic sound pressure:	< 59.5 dBa
Scale accuracy (when installed):	±1 kg (2 lb). Min: 32 Kg (70 lb) e: 0.5 Kg

CE Class III Scale

1.10 Storage and handling

Operating environment

Temperature:	5 to 40 ˚C
Relative humidity:	15% to 95% (Non-condensing)
Atmospheric pressure:	70kpa à 106kpa

Storage environment

Temperature	- 40 to 70 ˚C
Relative humidity	10% to 100% (Non-condensing)
Atmospheric pressure	70kpa to 106kpa

WARNINGS ABOUT FEATURES AND SPECIFICATIONS

- Ensure that the bed height allows for safe and easy entry and exit from the device. Otherwise, there is a **RISK OF FALLING,** which could result in **SERIOUS INJURY**.
- Before fully lowering the bed, make sure no part of the patient's body extends beyond or is underneath the bed to prevent **SERIOUS INJURY AND/OR POTENTIAL DAMAGE** to the device.
- Class I device are provided with functional ground.

1.11 Electromagnetic Compatibility (EMC)

This hospital bed complies with the following electromagnetic compatibility standards.

Test Name Standards	Compliance
CISPR 11 (2015) A1 (2016) Conducted Emissions	Group 1 - class B 150kHz-30MHz
CISPR11 (2015) A1 (2016) Radiated Emissions (Prescan 3m)	Group 1 - class B 30MHz-1GHz
CISPR11 (2015) A1 (2016) Radiated Emissions (10m)	Group 1 - class B 30MHz-1GHz
IEC 61000-3-2 (2018) Harmonic Current Emission Limits	Class A
IEC 61000-3-3 (2013) A1 (2017) Voltage Fluctuations and Flicker Limitations	Observation Pst: 10 min. Observation Plt: 120 min
IEC 61000-4-2 (2008) Electrostatic Discharge Immunity	Contact: ±8kV. Air: ±2kV, ±4kV, ±8kV, ±15kV
IEC 61000-4-3 (2020) Radiated Electromagnetic Field Immunity	80MHz-2.7GHz: 3V/m
IEC 60601-1-2(2014) Proximity fields from RF equipment	385MHz: 27V/m
	710MHz,745MHz, 780MHz:9V/m
	450MHz, 810MHz, 870MHz, 930MHz: 28V/m
	1.72GHz, 1.845GHz, 1.97GHz, 2.45GHz:
	28V/m
	5.24GHz, 5.5GHz, 5.785GHz: 9V/m
IEC 61000-4-4 (2012) Electrical Fast Transient Immunity	Power: ±2kV / 100kHz, I/O Ports: ±1kV / 100kHz, Communication Ports: N/A
IEC 61000-4-5 (2014) A1 (2017) Surge Immunity	Power: ±2kV L-PE / ±1kV LL, I/O Ports: N/A, Communication Ports: N/A
IEC 61000-4-6 (2013) Immunity to Conducted Disturbances, Induced by RF Fields	Power: 3V, I/O Ports: 3V, Communication Ports: 3V, ISM Bands: 6V
IEC 61000-4-8 (2009) Power Frequency Magnetic Field Immunity	Continuous Field: 30A/m / 50Hz & 60Hz
IEC 61000-4-11 (2020) Voltage Dips, Short Interruptions and Voltage Variation Immunity on AC Input	Voltage dips:
	0%Un during half cycle 0%Un during 1 cycle
	70%Un during 25 cycles (at 50Hz) Short interruptions:
	0%Un during 250 cycles(at 50Hz)

⚠ WARNINGS ON ELECTROMAGNETIC COMPATIBILITY

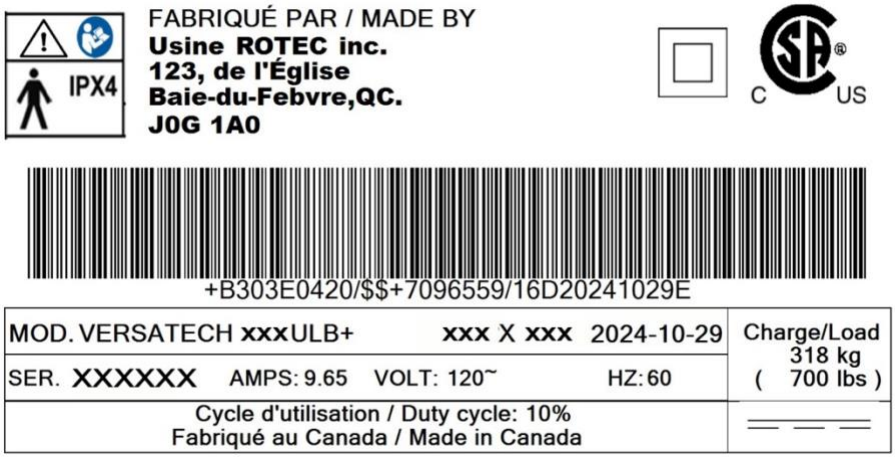
- Portable RF communication equipment, including peripherals such as antenna cables and external antennas, **must be kept at least 12 inches (30 cm) away** from any part of the bed, including its cables.
- Avoid stacking or placing equipment adjacent to other devices to prevent improper operation. If stacking or adjacency is necessary, carefully monitor the equipment to ensure proper functionality.
- The use of accessories, transducers, or cables other than those specified or provided by the manufacturer **may increase electromagnetic emissions, reduce electromagnetic immunity**, and result in improper operation.

1.12 Bed Labeling

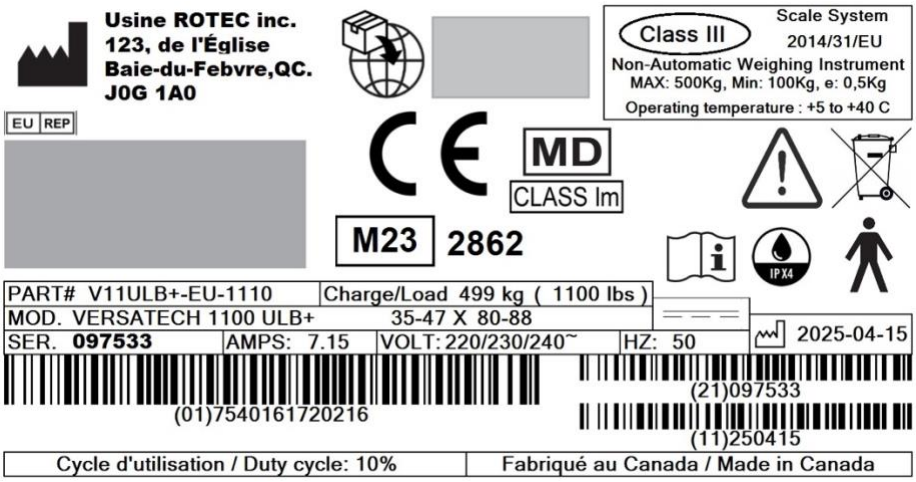
Bed Identification Label with UDI

On the bed identification label information like address of the manufacturer, manufacturing date, UDI code, Symbols, product model, product serial number, electrical specification, foreign country representative, and other relevant information can be found on it.

Example of label with HIBCC UDI code:

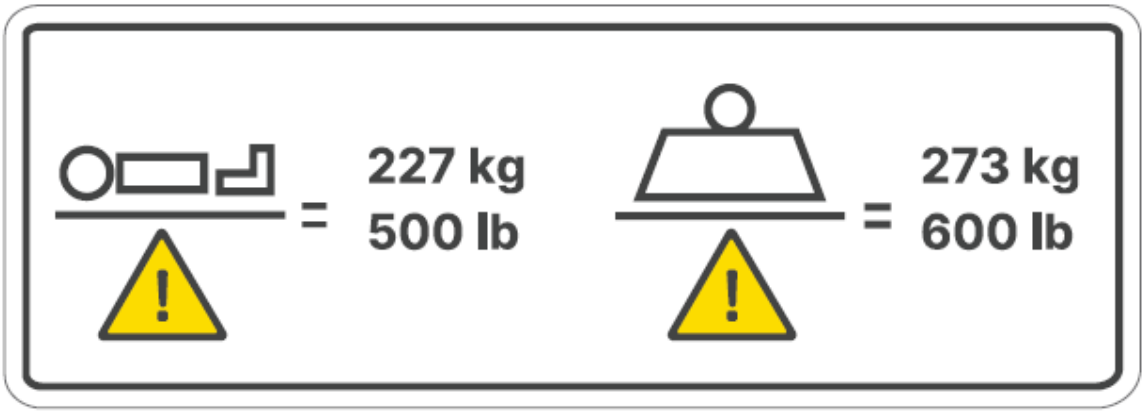


Example of label with GS1 UDI code:



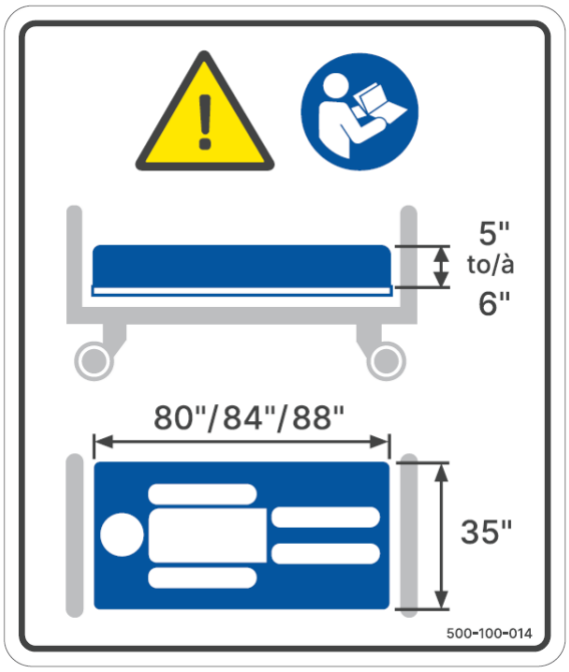
Bed load capacity label:

V600 ULB / ULB+



Recommended mattress size label:

V600 ULB / ULB+



2. INSTALLATION

2.1. Powering the device

The primary voltage of the device can always be safely disconnected by unplugging the unit's power cable from the designated wall socket. Ensure that the power cable remains easily accessible at all times.

Note that this device is Class I and must be plugged into a grounded outlet.

⚠ WARNINGS ABOUT POWER TO THE UNIT

- Connecting the device to a power supply network without a grounding terminal increases the **RISK OF ELECTRIC SHOCK.**
- If a significant amount of liquid is accidentally spilled on electronic components, cables, or motors, their functionality may be compromised. In such cases, immediately disconnect the bed, remove the user from it, and have the bed cleaned and inspected by qualified technicians. The bed must not be returned to service until it has been properly cleaned and inspected. Failure to follow these instructions may compromise the device's integrity and result in **SERIOUS INJURY**.
- Ensure that the power cable remains in a safe location while the device is in use to prevent damage that could lead to **SERIOUS ELECTROCUTION INJURY**.

2.2. Verification before putting into service

To ensure no damage occurred during the transport of the bed, the following verifications must be performed:

- (If applicable) Check that the device's packaging is intact and has no visible damage.
- (If applicable) Unpack the device from its packaging.
- Conduct a visual inspection to confirm that the device appears to be in good condition.
- Connect the device's power cable.
- Keep the device connected for at least 48 consecutive hours.
- Verify that all functions operate according to the instructions provided in this manual (see Section 3).
- Unplug the power cable and operate the actuators to test the battery.

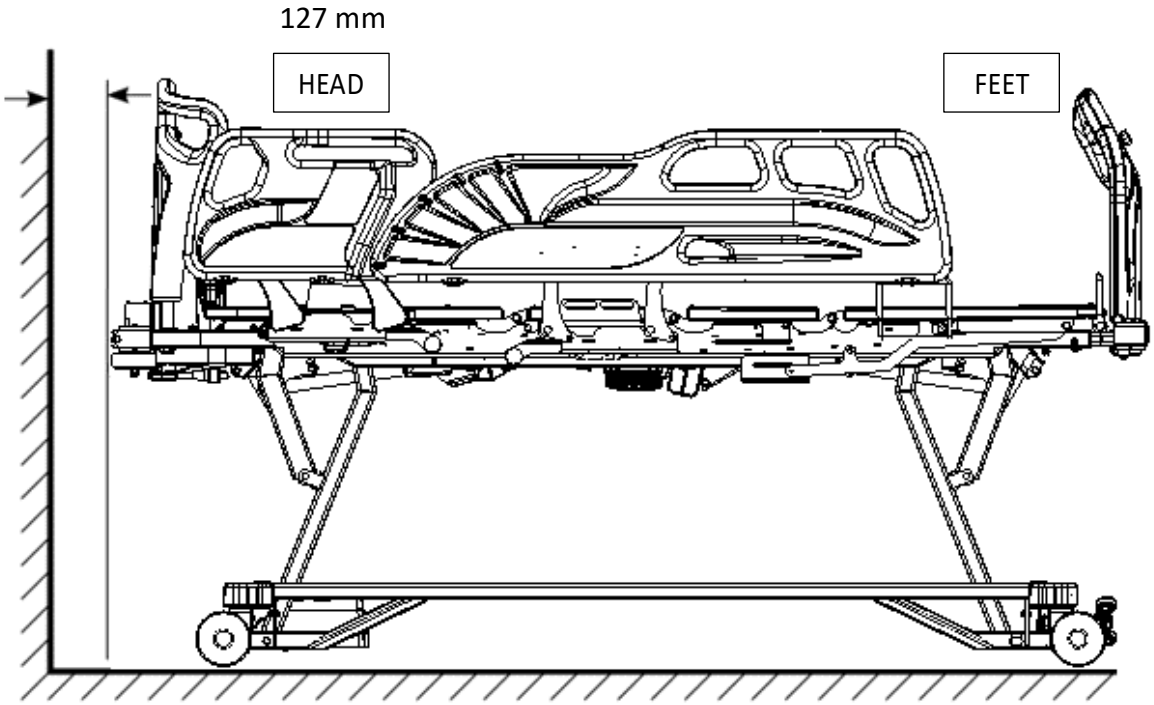
If any damage or malfunction is detected, immediately contact the Technical Services Department of Rotec without hesitation.

⚠ WARNINGS ABOUT VERIFICATION

- Ensure that the power cables of nearby electrical devices do not become entangled in the moving parts of the device. Failure to do so could result in **SERIOUS ELECTROCUTION INJURIES**.

2.3. Positioning in the operating environment

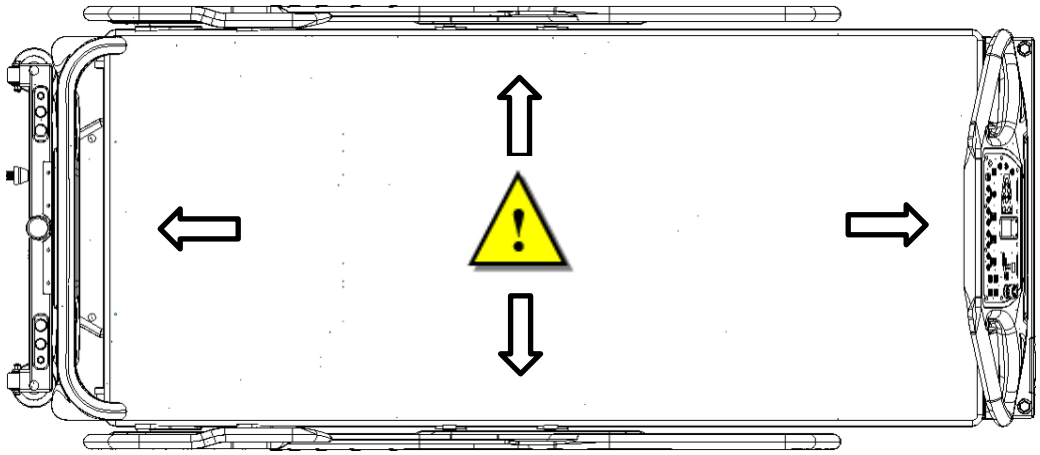
To install this bed model, place it horizontally at a minimum distance of 127 mm (5 inches) from the wall. Similarly, ensure that no objects obstruct the foot section before engaging the brakes (see Section 3.2).



This allows the bed to be used without concern for contact with the wall.

2.4. Installation/Replacement of the mattress

Use a mattress that meets the recommended specifications. Ensure that the platform configuration matches the mattress (see Mechanical Specifications).



Place the mattress on the device and insert it between the platform's rail guards. Note that the mattress must be compressed to fit properly. If not, the platform adjustment is incorrect for the mattress dimensions.

⚠ WARNINGS ABOUT FEATURES AND SPECIFICATIONS

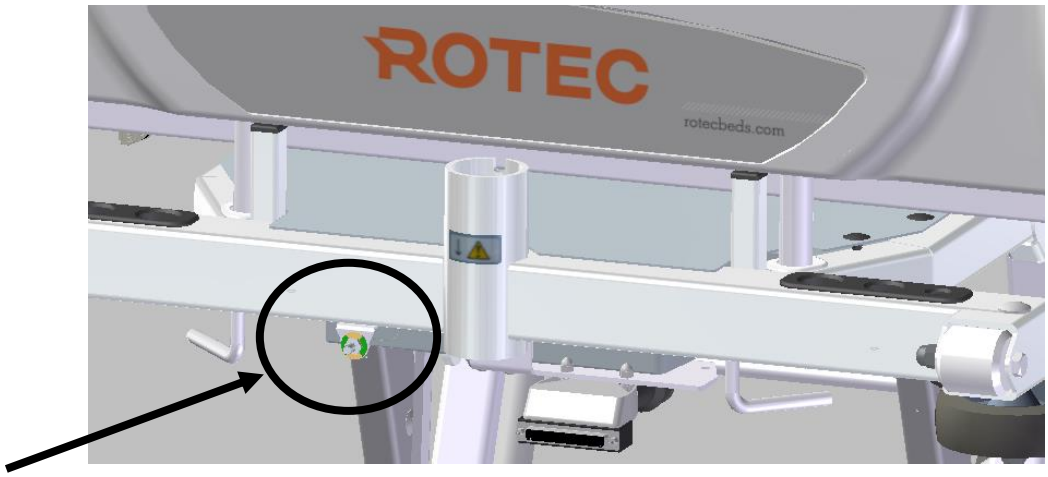
- Use a mattress of the correct size, properly adapted to the platform dimensions, to prevent **RISKS OF ENTRAPMENT** between the side rails and the mattress, which could result in **DEATH**.

2.5. Potential Equalization

This bed is equipped with a connector for potential equalization between the bed and other medical equipment that may be connected to the patient, in order to protect the patient from possible static discharge.

Connect the medical equipment and the bed via their equipotential terminals before connecting the medical device to the patient.

Before moving the bed, make sure to disconnect the medical equipment from the patient and disconnect the bed's equipotential connector.





3. OPERATING INSTRUCTIONS

3.1. Electrical functions of the bed

Symbols	Descriptions
	**Arrow pointing upwards:** Allow upwards adjustment of the various functions of the equipment.
	**Arrow pointing downwards:** Allow downwards adjustment of the various functions of the equipment.
	**Backrest functions:** Allow tilting adjustment of the backrest section upwards or downwards. Press on the arrow pointing upwards or downwards located next to the symbols to switch on the motor. Release the control to stop all movement.
	**Thigh functions:** Allow tilting adjustment of the thigh section and raising or lowering the foot section. Press on the arrow pointing upwards or downwards located next to the symbols to switch on the motor. Release the control to stop all movement.
	**Auto-contour functions:** Allow tilting the thigh section and the backrest section and adjusting the height of the foot section upwards or downwards at the same time. Press on the arrow pointing upwards or downwards located next to the symbols to switch on the motor. Release the control to stop all movement.
	Bed height functions: Allow the height adjustment upwards or downwards of the bed. Press on the arrow pointing upwards or downwards located next to the symbols to switch on the motor. Release the control to stop all movement. Note: The buttons situated on the inside of siderails and on the remote control have a limited range on lowering the bed for safety reasons. To lower the bed to the lowest height, use the controls on the foot panel.
	**Trendelenburg functions:** Allow tilting the bed so the foot section is lower than the head section and conversely. Press on the arrow pointing upwards or downwards located next to the symbols to switch on the motor. Release the control to stop all movement. Note: the function stops when the bed is back horizontally.

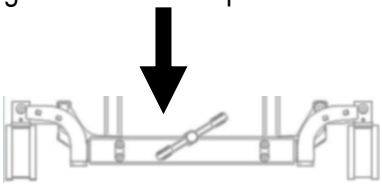
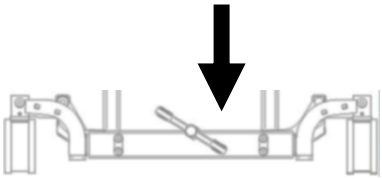
	**Locking functions:** Allow locking a function of the remote control and of the patient control from the nurse control at the foot of the bed. Press this button to lock the function displayed nearby. A red indicator with light up above the lock symbol, indicating that the function is locked. The button to the side locks all moving functions of the equipment including those on the remote control, the patient control on the side of the bed, and the foot control, except for the CPR function. To activate the lock function, hold down the button for 8 seconds.
	**Cardiac chair position:** Allow the bed to be moved in a chair position. This function tilts up the back and thigh sections upwards, adjust the height of the foot upwards and tilt up the bed so the foot section is lower than the head section. Press this button until all functions reach their maximum positions. Release the control to stop all movement. Note: The complete operation may take up to 60 sec.
	**Electric CPR function:** Allow the optimum positioning of the bed to apply the cardiopulmonary resuscitation. Release the control to stop all movement. The **CPR** function should only be used in case of emergency only. Using this function for other purposes could lead to serious injuries to the patient or operator.
	**Light function:** This function turns on the light located underneath the bed. Press this button to turn on or off the light.
	**Nurse call function:** This function sends a signal to the nurse's station. Press this button to send the signal.
	**Plug-in indicator light:** This light indicates that the bed is plugged in a wall power outlet. Allows the battery to recharge.
	**Height Limiting Function (35,5cm / 14 inches Intermediate Stop) – Optional:** When lowering the bed using any control, the bed will automatically stop at an intermediate height of 35,5cm / 14 inches (measured from the floor to the mattress platform). This is a safety feature to prevent unintentional lowering below this level. **To continue lowering the bed below 35,5cm / 14 inches to the minimum height:** ▪ Use the external control on the foot end panel or the outer siderail control. ▪ After reaching the 35,5cm / 14 inches stop, the system will emit a quick series of three beeps. ▪ Release and then re-press the lowering button to confirm the action. ▪ The bed will emit intermittent beeps as it continues to descend toward the minimum height. If the lowering button is released for more than 10 seconds, the override process resets. The system will then re-emit the audible warning (three beeps) before allowing descent below 14" again.

⚠ WARNINGS ABOUT THE USE OF ELECTRICAL FUNCTIONS

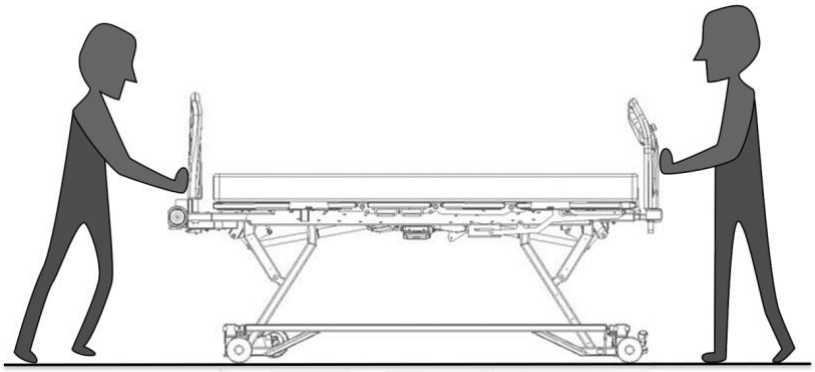
- If the user's physical condition requires it for their safety, disable the bed functions intended for patient use. Position the bed in its lowest setting, ensure the platform is horizontal, and raise the bed rails to enhance safety.
- Ensure that no part of the patient's body extends beyond the mattress and that there are no obstructions under the platform before activating the **CPR** function. **SERIOUS INJURIES** may occur if this function is used improperly.
- The CPR function should be used **ONLY IN CASE OF EMERGENCY.** Using it for any other purpose could result in **SERIOUS INJURIES** to the patient or operator.
- Always position the bed at a low height when the patient is sleeping or unattended to reduce the **RISK OF FALLS,** which could lead to **INJURIES.**
- Do not leave a table or any other object requiring access under the bed when lowering it, as this could cause **SERIOUS MECHANICAL DAMAGE.**
- Before activating any motion controls, ensure that no objects, equipment, or body parts (such as patient or staff limbs, medical equipment, etc.) are obstructing the bed's moving parts, as this could result in **SERIOUS INJURY AND/OR DAMAGE TO EQUIPMENT.**

3.2. Moving the device

To move the device, it is recommended to raise the bed of at least 150mm (6 inches) from its lowest position to facilitate access to the pedal. To operate the system, place the pedal in one of the following three positions:

DIRECTIONAL	NEUTRAL	BRAKE
To engage the directional mode and ensure the left-headed caster rolls in a straight line, press the green side of the pedals.	To engage neutral mode, remove all restrictions and allow the bed to roll freely in all directions by positioning the pedals horizontally.	To engage the brakes and immobilize the bed, press down on the red side of the pedal.
		
Press on the **green** side of the pedals.	Place the pedals horizontally.	Press on the **red** side of the pedals.

When the bed is heavily loaded, it is recommended that two people move it.

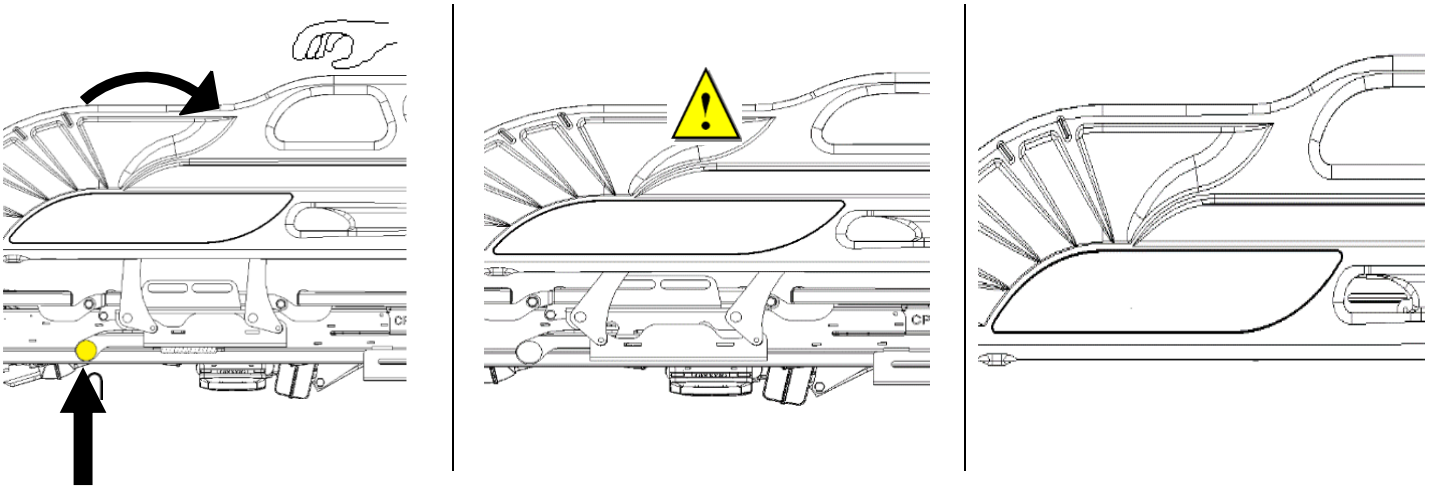


⚠ WARNINGS ABOUT THE SYNCHRONIZED BRAKE SYSTEM

- Always apply the brakes after moving the bed or when a patient is on the bed. Failure to do so could result in **INJURIES** when the patient gets in or out of bed.
- Always verify that the brakes are securely locked after activating them by attempting to move the bed.
- When moving the bed, if you must leave it unattended, always apply the brakes. Leaving the bed with the brakes disengaged and unattended could cause serious injury to the patient or other people near the bed.

3.3. Side rails

To lower the side rail, locate the under-frame lever, push it, and rotate the rail downward until it locks in place.



To raise the rail, pull it upward with a rotating motion until it reaches the highest position. Ensure it is securely locked by checking for side-to-side stability.

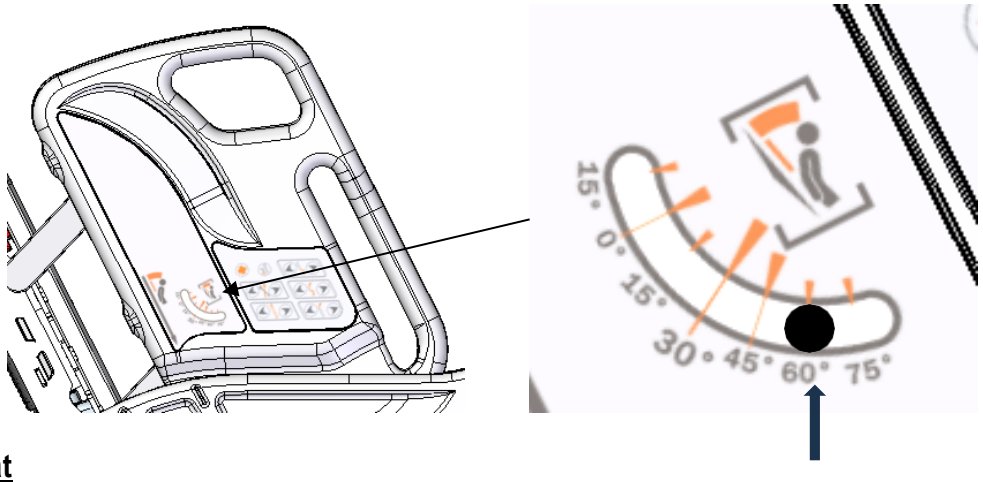
⚠ WARNINGS ABOUT SIDERAILS USE

- When raising the side rails to the closed position, always ensure they are fully locked at the highest position by attempting to move them sideways. Failure to do so may result in a **RISK OF FALLING.**
- The side rails are designed only to prevent accidental falls. They must not be used to prevent the patient from leaving the bed, assist the patient in turning over, or act as a restraint. It is the operator's responsibility to use appropriate restraints in the interest of the patient's safety.
- Ensure that nothing obstructs the movement of the side rails (such as blankets or the patient's limbs) before activating them.
- Unless otherwise medically advised by a professional, always keep the side rails up and locked while the user is sleeping or unsupervised to prevent the **RISK OF FALLING**. Additionally, it is recommended to keep the bed at its lowest height to reduce the **RISK OF INJURY** in case of a fall.
- Ensure that feet are not positioned under the bed when lowering the patient surface to its lowest setting. When the side rails are in the open (unlocked) position, they may come into contact with the ground and slightly lift.

3.4. Angle indicators

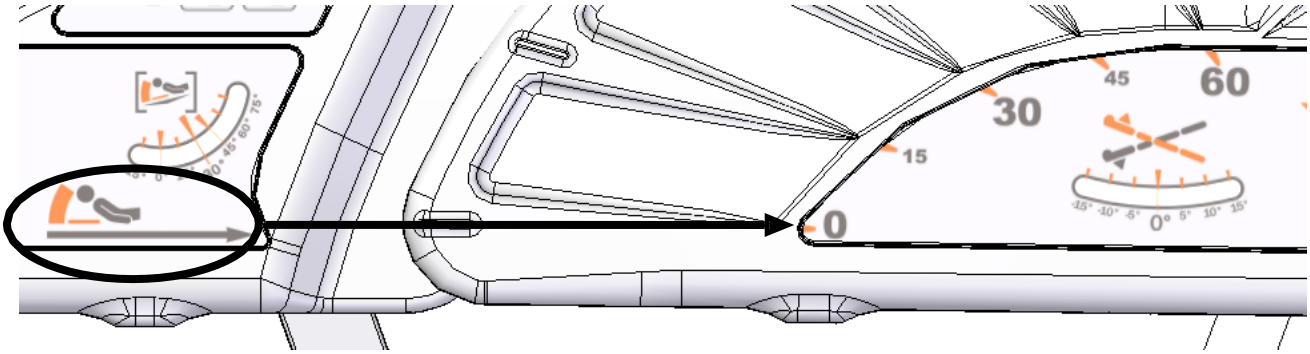
The backrest in relation to the floor

To determine the backrest's angle relative to the floor, refer to the angle indicators. The degree measurement is indicated by the ball's position at its lowest point, providing an approximate reading of the backrest's incline.



Backrest to seat

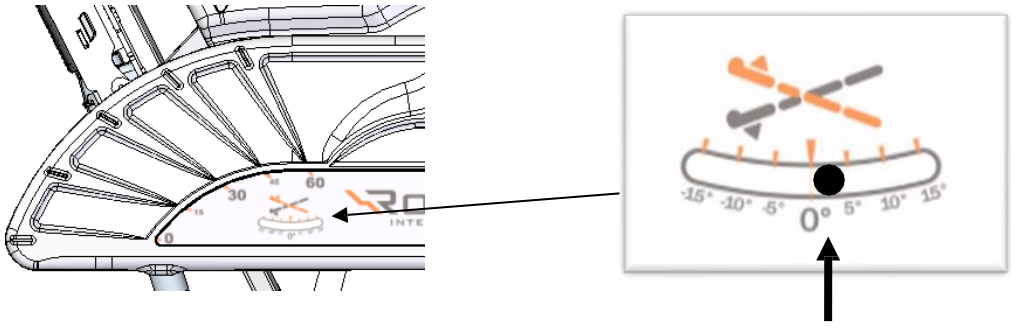
To approximate the backrest angle relative to the seat, observe the arrow on the head side pointing to the degree markings on the foot side.



Ensure the bed rails are closed and locked for accurate alignment of the arrow with the corresponding angle on the foot rail.

The Trendelenburg

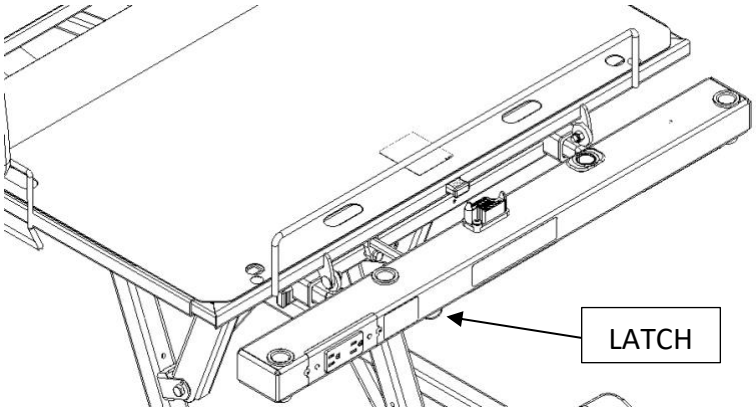
To approximate the bed's angle in Trendelenburg or Reverse Trendelenburg positions, refer to the measurement indicated by the ball at its lowest point. The degree reading shows the bed's angle in these positions.



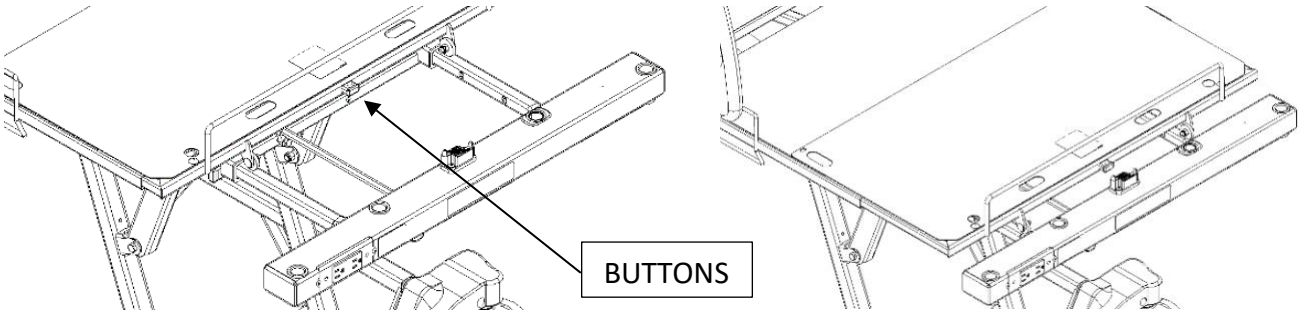
3.5. Length extension of the platform

* To facilitate the extension of the Med-Surg bed platform, it is recommended to raise the foot section to the maximum and then remove the footboard.

1) Press the latch which is under the foot frame extension.
2) Then, pull on the foot frame extension and release the latch.
3) The extension will lock automatically to the following mattress dimensions: 84 inches and 88 inches.



4) Next, using both hands, press the button in the center of the foot section of the platform and pull on the platform foot extension.
5) You can release the button, and the extension will lock automatically to the same dimensions: 84 inches and 88 inches.
6) Reposition the footboard and lower the foot section to its lowest position.

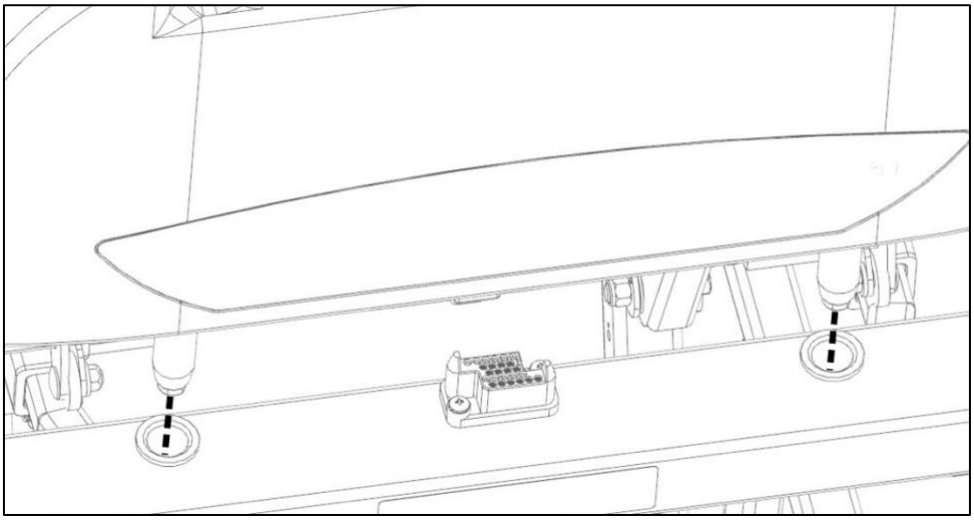


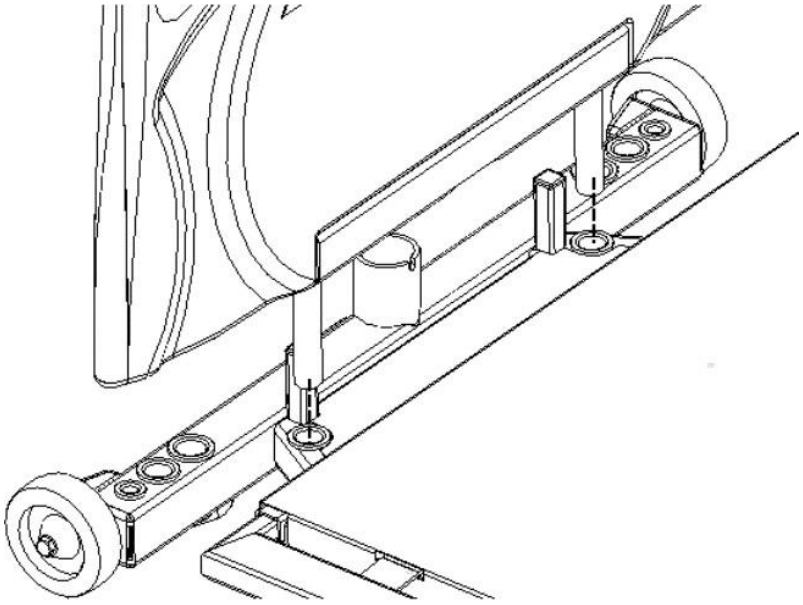
⚠ WARNING ON LENGTH EXTENSION OF THE PLATFORM

- Never extend the foot section of the platform without also extending the foot section of the structure, as this may result in **MECHANICAL DAMAGE AND/OR INJURIES**.
- After extending the platform, always ensure that its length matches the size of the mattress being used to prevent **RISKS OF ENTRAPMENT, WHICH COULD LEAD TO DEATH**.

3.6. Head and foot boards

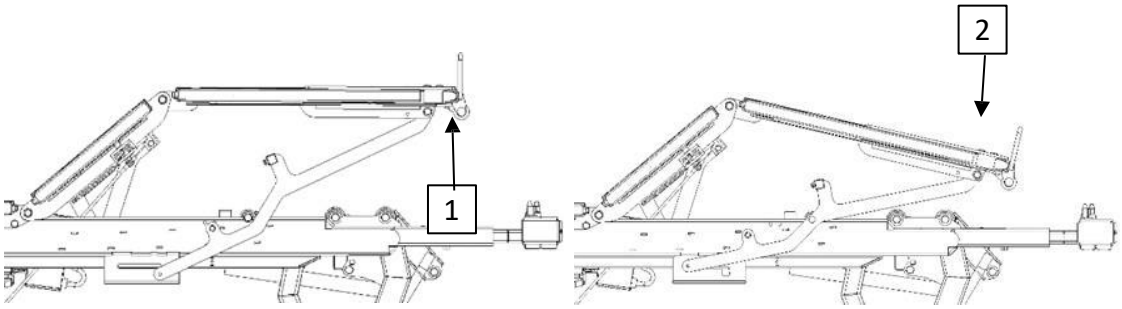
To properly install the headboard and footboard, slide the two posts, from the headboard or footboard, through the two holes provided until they reach the bottom. To remove the boards, follow the reverse procedure.





3.7. Adjustment of the foot section angle

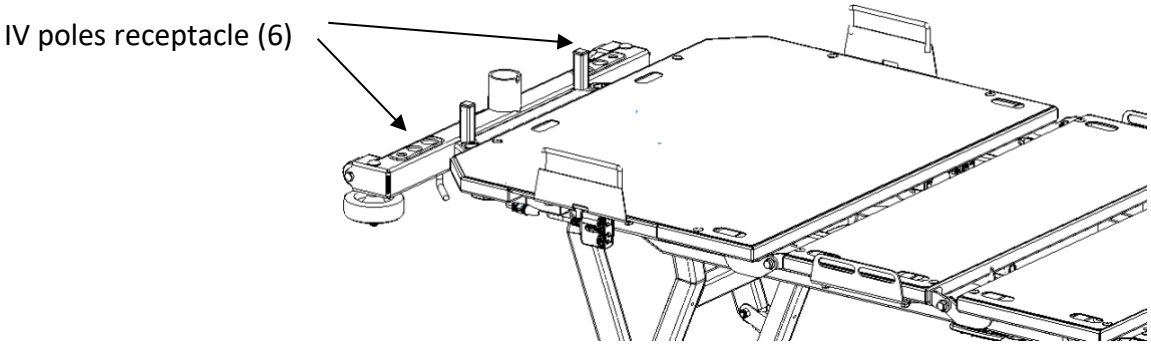
Before you adjust the foot angle on the Med-Surg bed, the foot section must already be elevated (step #1). Otherwise, the angle adjustment cannot be made. To adjust the angle of the foot section, raise the end of the foot section until you feel the mechanism unlock. Once it's unlocked, lower the foot section to its lowest position (step #2).



To return the foot section to a flat, horizontal position, fully lower the thigh section using the motorized controls. This will automatically bring the foot section back to a horizontal, locked position.

3.8. IV poles receptacle

The bed is equipped with six (6) IV pole holders located at the head of the structure. These holders come in three different sizes: 1/2 inch, 7/8 inch, and 1 inch diameter.

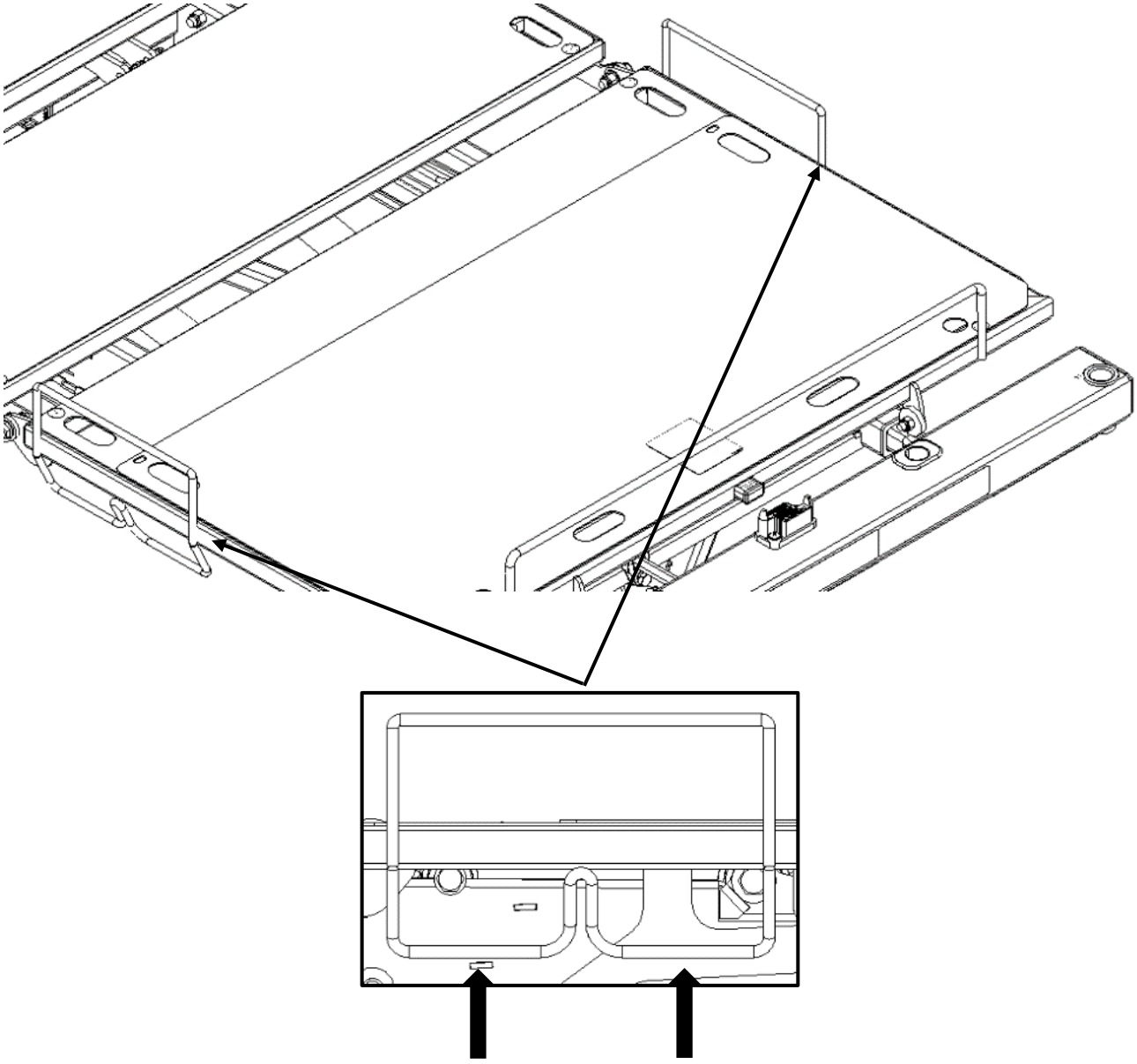


WARNING ABOUT IV POLES RECEPTACLE

- Never use the Trendelenburg function when an IV pole is installed on the bed. Doing so may cause damage to the equipment and increase the **RISK OF INJURY** to the patient.

3.9. Drainage bag receptacle

The Med-Surg bed has four (4) designated locations for installing a drainage bag, with two (2) on each side. Choose one of these locations to securely support the drainage bag.

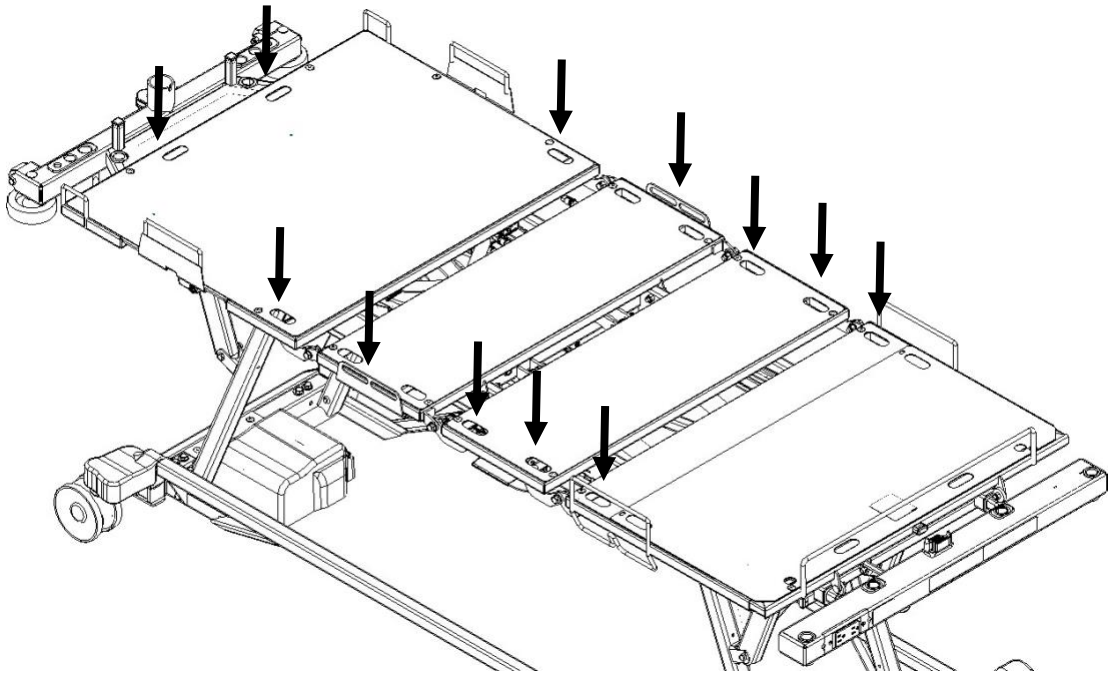


WARNING ABOUT DRAINAGE BAG

- Do not lower the device to its minimum height when a drainage bag is attached, as it may fall off and cause **INJURIES** to the patient.
- Caution: Attaching a drainage bag elsewhere on the device may result in **INJURIES** or **MATERIAL DAMAGE.**

3.10. Openings for restraint belts

Openings are located on each side of the platform. It is the responsibility of the medical staff to properly use the restraints and to select the appropriate openings for installation. We recommend attaching your restraints only at the end of the extenders according to your patient's shape and size.

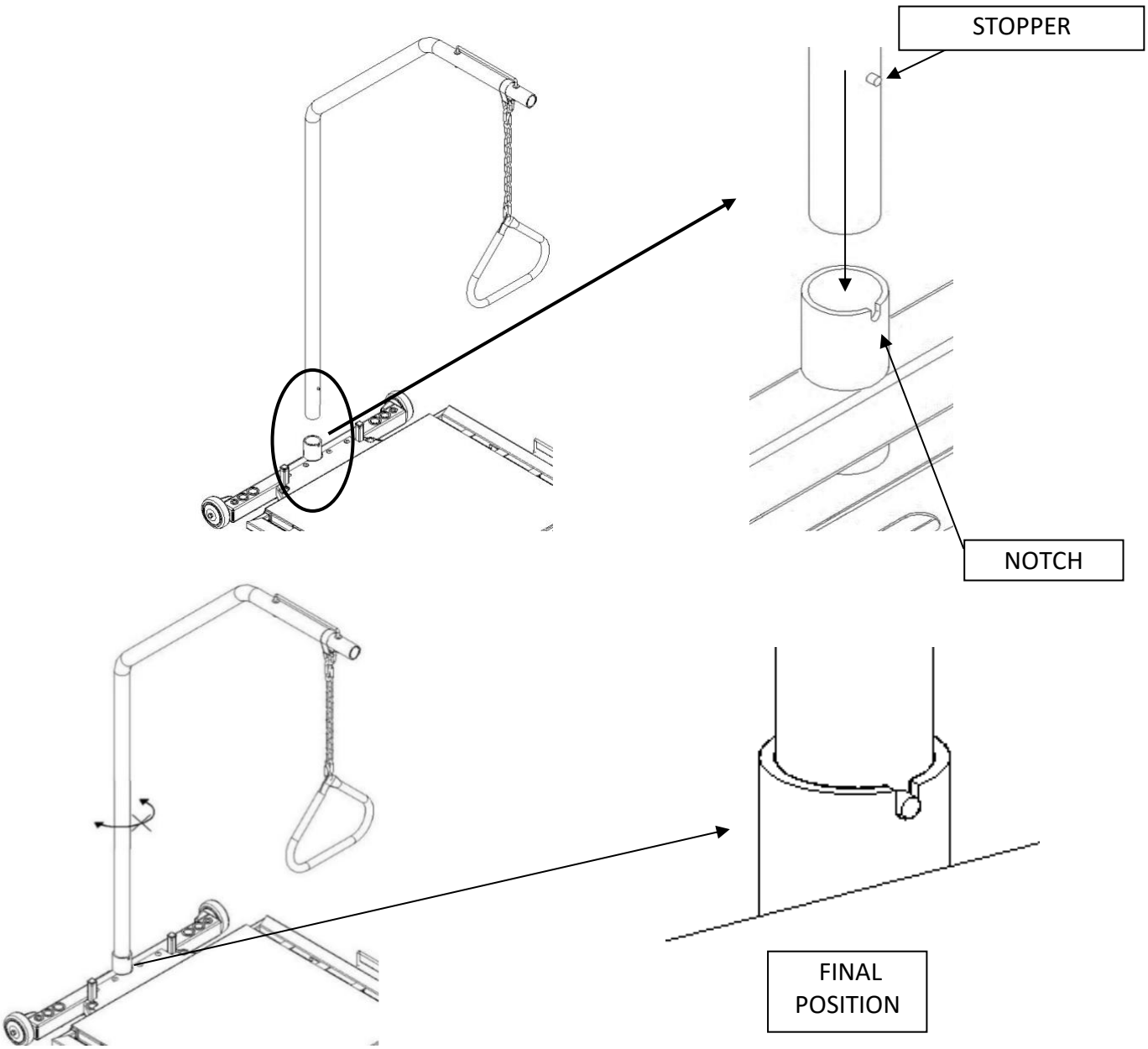


⚠ WARNINGS ABOUT THE RESTRAINT STRAPS

- Always verify that the restraints are not becoming tighter around the patient as the platform moves. Tightening may lead to a **RISK OF INJURY**.

3.11. Installation of the trapeze bar (option)

To install the trapeze bar, simply insert the bar into its designated receptacle. Be sure to align the positioning stop with the notch. The trapeze bar is designed specifically for Rotec trapezes.



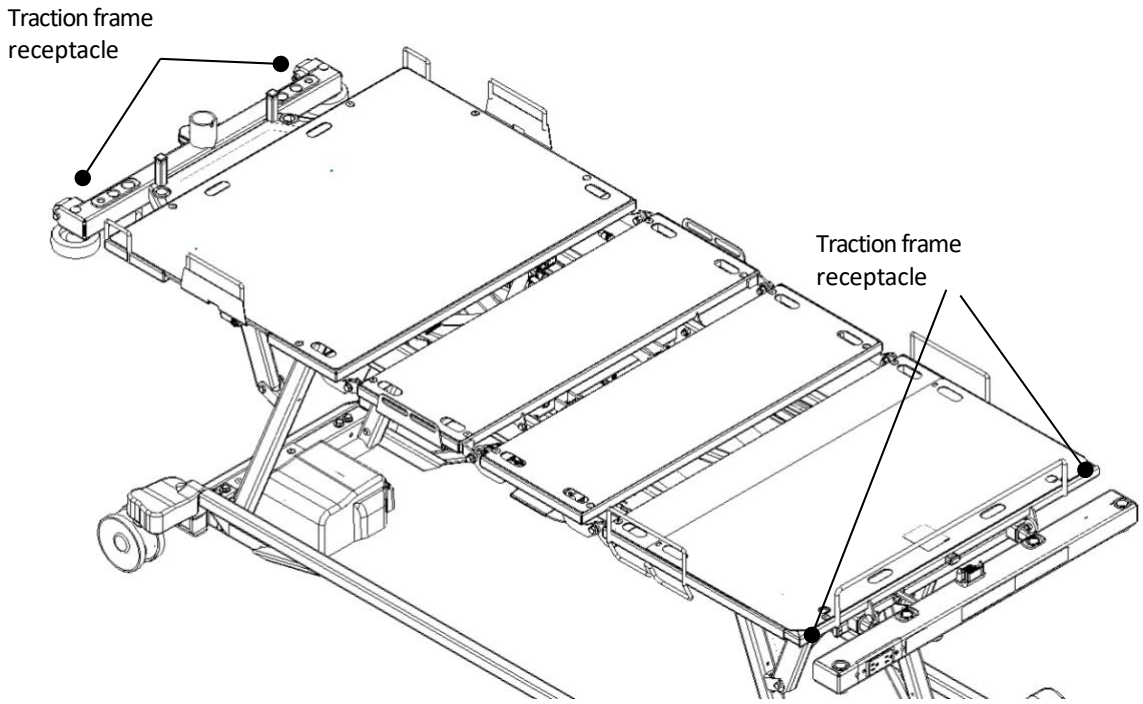
Once the bar is in place, test it by attempting to turn or move it, ensuring it is securely positioned.

⚠ WARNING ABOUT TRAPEZE BAR

- Do not use the Trendelenburg function when the trapeze bar is installed on the bed. Doing so may cause damage to the equipment and increase the **RISK OF INJURY** to the patient.

3.12. Traction frame receptacle

To install a traction frame, use the ⅞" diameter mounting points located at the head and foot ends of the bed frame. Note that these are the same openings used for IV poles.

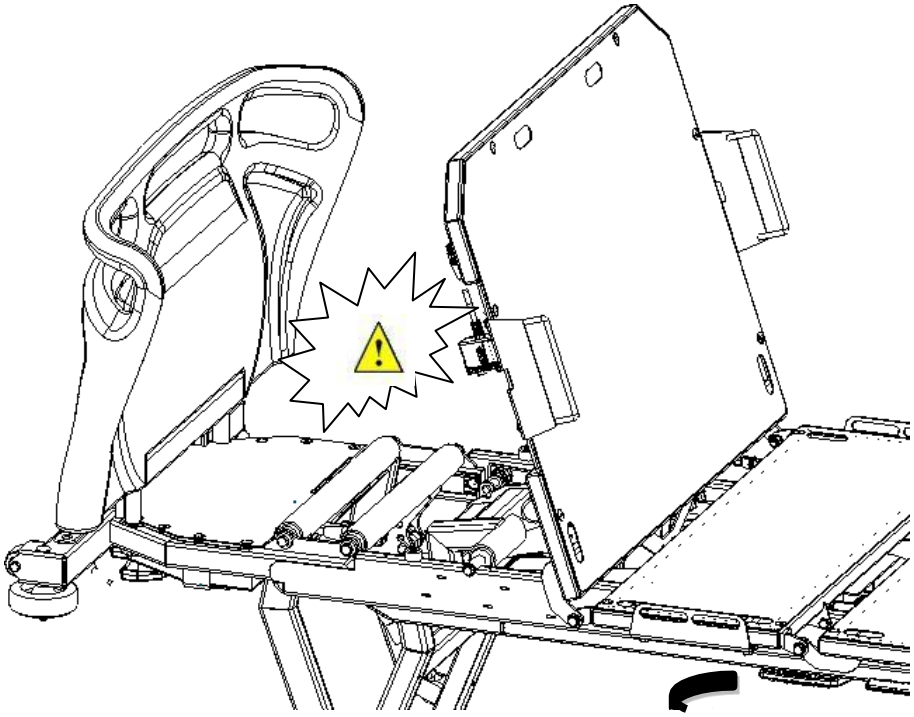


⚠ WARNING ABOUT THE TRACTION FRAME RECEPTACLE

- Do not use the Trendelenburg function when a traction frame is attached to the device to prevent **MATERIAL DAMAGE** and **RISK OF INJURIES** to the patient.

3.13. Mechanical CPR function

To activate the mechanical CPR function on the Rotec VersaTech Med-Surg bed, pull the handle located under the thigh section of the platform to lower the backrest section only.



⚠ WARNING ABOUT THE CPR FUNCTION

- Ensure that no part of the patient's body extends beyond the mattress and that there are no obstructions under the bed platform before activating the **CPR** function. **SERIOUS INJURIES** may occur if this function is not used properly.
- The **CPR** function should **ONLY** be used in an **EMERGENCY**. Using it for any other purpose could result in **SERIOUS INJURIES** to the patient or operator.
- The side rails must be in the raised position before activating the mechanical **CPR** function. Otherwise, the side rail mechanism could open suddenly, causing **SERIOUS INJURIES**.

3.14. Nurse call and DB37 ouput

Pressing the nurse call button sends a signal to the on-call station.

The bed must be connected to the wall using a DB37 communication cable, with the socket located under the frame at the head end of the bed.

Depending on the facility's system configuration, the receptacle supports the transmission of either a normally connected (NC) or normally open (NO) signal.



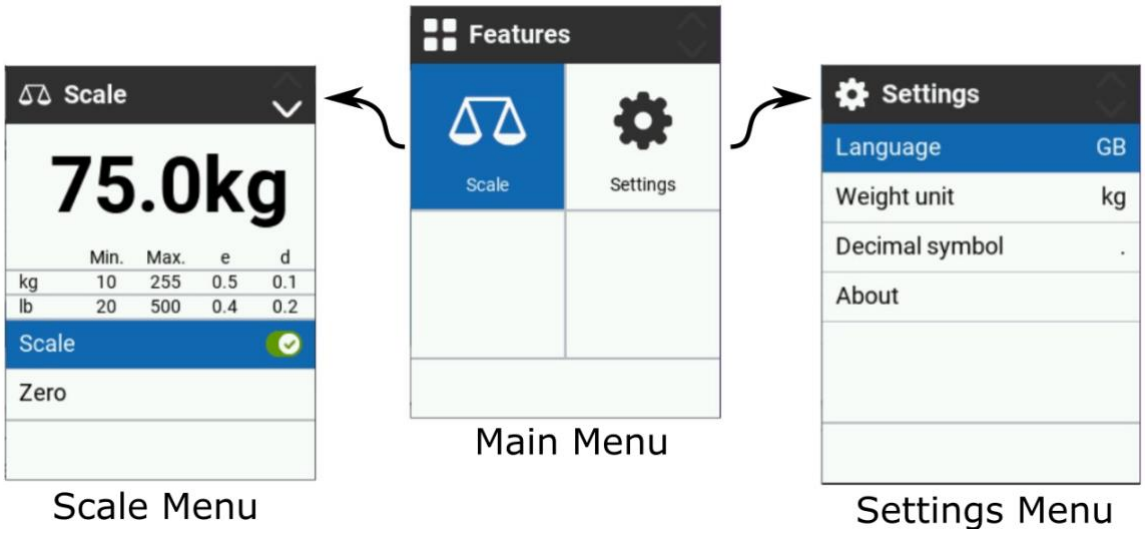
Note: If enabled, this receptacle also sends a signal in the event of a bed exit.

⚠ WARNING ABOUT THE DB37 OUTPUT

- Ensure that the signal is functional. A non-functional connection could result in **TREATMENT DELAYS, WHICH MAY AGGRAVATE CONDITIONS OR CAUSE INJURIES**.

3.15. Integrated scale

The integrated scale lets you measure a patient's weight. Use the display and directional keys on the footboard to access its functions



Navigate menus with the arrow keys. The highlighted blue color shows your current selection.

Scale

The scale feature is used to monitor the patient weight. The scale menu itself is a special list menu view with focus on showing the patient weight. The list contains up to seven items, depending on calibration.

Scale:	Turns the feature on or off. When turned on, the current weight on the application will immediately be shown, first with blue letters, which indicates that the weight on the bed is still not stable. When the weight on the bed is stable, then the letters will turn black, indicating the stable weight. Please note that, when scale turned on, this tile moved at the bottom of the Scale menu. When the feature is off, list items will be in a greyed-out state and cannot be accessed.
Zero:	Zeroes the bed. The bed can only be zeroed if the weight is below 50 kg (This value can be changed when calibrating the bed).
Auto-compensation:	Is used to add/remove items from the bed, such as a new pillow or equipment, without impacting the patient weight.
Save weight:	Save weight of the patient. There are 10 memory spaces for saving the weight.
Weight log:	View the last saved weight/s of the patient. It is only possible to see the latest 10 saved weight entries.
Clear weight data:	Is used to clean up the weight log.

Abbreviations

- Min: Minimum weight to be measured
- Max: Maximum weight to be measured
- e: Weight resolution
- d: Detailed weight resolution (only visible when e≠d)

Scale Display on mains or in battery mode

Scale Display can run when the control box is on mains or in battery mode. ⚠ Please be aware that the scale feature will be disabled in battery mode.

In the main area, the following scale icons can be seen:

Description	Neutral icon	Selected icon
Default		
ON		
Error		
Disabled		

Settings:

Language:	Choose system language (English, German, French, Spanish, Danish, Portuguese, Polish, Chinese).
Brightness:	Choose the display brightness level (Min., Mid., Max.)
Weight unit:	Choose kilograms or pounds. The list item is only visible if the calibration supports pounds.
Decimal symbol:	Choose between a comma or dot.
Advanced:	Set up gateway signal, scale calibration, about and scale verification.

In the main area following settings icons can be seen:

	Neutral	Selected
Default		

List menu inside « Advanced »:

Gateway signal: (only needed if gateway is connected)	Choose how the gateway signal is sent, either pulse or follow. In case of an event using the gateway, such as a person leaving the bed with out of bed active.	
	Pulse:	Sends a signal via the gateway and shuts off. Will send a new signal when the person returns to bed.
	Follow:	Will keep sending a signal as long as the person is out of bed.
About:	This section contains settings including calibration from the control.	
	Software:	This section outlines the current software and version programmed in the control box.
	Software QLCI2:	This section outlines the current software and version programmed in the QLCI2.
	Scale verification:	This tab contains information on the specified precision of the scale, the determined gravitational force at the destination, and the number of calibration procedures that have been conducted.

Pop-ups

Pop-ups occur when the user needs to take action.
There are four pop-up types:

User instructions:	These are messages to the user, asking to wait or accept certain changes. User instructions will have a black background with white text.
Notifications:	Notification pop-ups occur when you enter a menu with a notification. Notifications will have a yellow background.
Errors:	The error pop-up will be shown when an error/user error occurs. Errors will have an orange background.
Low battery:	Low battery (below 20%) icon will flash in left area of Infoline.

Prioritizing

In case that multiple pop-ups occur at the same time, the priority of the icons is listed as below:

- **High** → Errors
- **Mid** → Notification – Out of bed
- **Low** → Notification – Low battery

Pop-up icon list

The below icons are being displayed either when activated or being detected.

	**Error**
	**Low battery**
	**Low battery**

WARNING ABOUT THE SCALE SYSTEM

- Disabling the scale will also disable the bed exit or egress detection function.
- Any unauthorized intervention, repair, or modification of the weighing system shall invalidate the initial calibration and shall require a new calibration before the system is returned to service.

3.16. Bed exit detection system (option)

The bed exit detection system requires no calibration. It alerts you to weight variations detected by the scale. To activate it, ensure the patient is in bed and stable, select the desired zone, and hold the button until the green light stops flashing. Simply press the corresponding button while the patient is in bed to enable the function.

Buttons identification



Zone 1: The Zone 1 button activates the Bed Exit Detection system. It alerts you if the bed's measured weight drops significantly, signaling that the patient may have left the bed.



Zone 2: The Zone 2 button activates the Lateral Motion Detection. This system alerts you if the patient attempts to exit the bed from the side. Be aware that it may cause false alarms if the patient is agitated or moving in their sleep. To minimize false alarms and improve accuracy, ensure the patient is centered in the bed when activating Zone 2. This function also includes the Zone 1 alert.



Zone 3: The Zone 3 button activates Frontal Movement Detection. This system alerts you if the patient attempts to exit the bed towards the foot end. Be aware that it may cause false alarms if the patient is agitated or moving in their sleep. To minimize false alarms and improve accuracy, ensure the patient is centered in the bed when activating Zone 3. This setting also includes alerts from Zone 1 and 2, making it the most sensitive option.

Alerts:

When the patient moves and activates the alert, the system provides **three (3) types of warnings:**

1. **Visual indication:** Indicator lights under the footboard interface flash red to warn staff.

2. **Buzzer:** The buzzer sounds to alert caregivers. You can activate or deactivate it by pressing and holding the Zone 1 and 2 activation buttons on the bed exit detection system. The following beeps indicate the status:
   - 1 beep = Buzzer deactivated
   - 3 beeps = Buzzer activated

   *The buzzer noise level can also be adjusted by turning its cover.

3. **Alerting the on-call station**: This is done via the DB37 output connected to the facility. For details, refer to the Nurse Call and DB37 Output section.

Note that there may be a delay of **up to 5 seconds** before the alarm is triggered after motion is detected. Also, deactivating the scale will deactivate the bed exit detection system.

Important note:
The bed exit detection system **cannot be activated** while the scale is in **Weighing mode**. To activate the exit alarm, **make sure to exit the Weighing screen** beforehand.

Caution

- This system may not be suitable for all patients. Additional devices may be required.
- This apparatus does not replace visual supervision by medical staff. The manufacturer does not claim that this equipment will prevent falls. It is intended as an additional tool within a comprehensive mobility management program for residents.
- The equipment must be tested before each use. Read all instructions and legal disclaimers carefully.
- This system is not designed to replace proper medical practices, including but not limited to direct patient supervision or appropriate fall prevention training for medical staff.
- This device provides warnings when a patient leaves the bed but does not prevent falls.
- The alarm may not activate if the usage instructions are not followed.
- If the alarm is not functioning correctly, turn it off and replace it with a properly working system.
- Ensure that your facility has a clear and effective fall response management policy for falls and fall alarms.
- Whenever possible, the vendor aims to limit its liability for specific damages, accessories, or indirect economic losses related to repair or replacement of the product.
- The vendor disclaims all liability for damages, compensatory claims, or any other losses arising from the use of the product.
- This product is intended for use only by certified medical staff.

⚠ WARNINGS ABOUT THE BED EXIT DETECTION SYSTEM

- This function must **NEVER** be used as the sole method to prevent falls. Doing so could result in a **RISK OF INJURIES** to the patient.
- This function must **NEVER** be used as a substitute for visual supervision. Relying solely on this function could lead to a **RISK OF INJURIES** to the patient.
- This function must **NEVER** be used as the sole means of monitoring agitated, combative, suicidal, or high fall-risk patients. Doing so could result in a **RISK OF SERIOUS INJURIES** to the patient.
- Disabling the scale will also disable the bed exit or egress detection function.

3.17. Auxiliary outlet (option)

If the If the bed is equipped with an auxiliary power socket, it is located under the footboard.

The voltage of the auxiliary socket matches the mains supply, and the socket capacity may be 2.5 amperes or 5 amperes, depending on the model.

This socket is connected to the bed's main power supply via an isolation transformer.

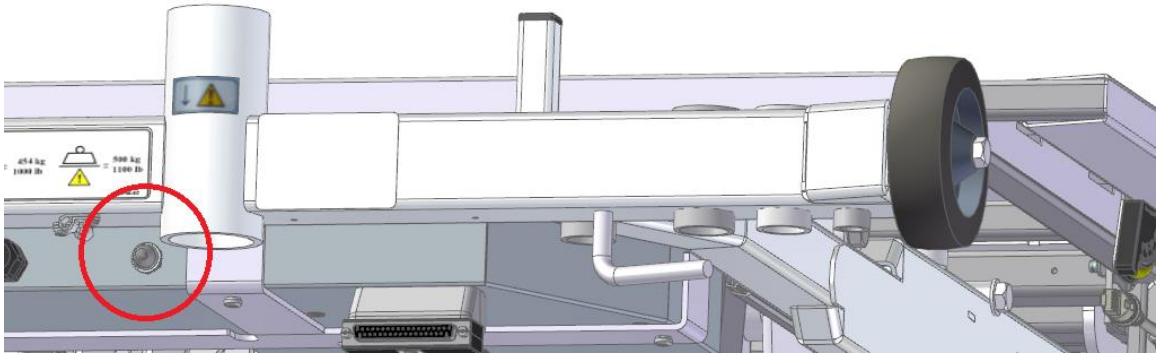
Unplugging the bed's wall power supply deactivates the auxiliary socket output.

Note that the auxiliary power socket is designed for a maximum connection of 600 watts.

Exceeding the power rating indicated on the plug marking may cause the circuit to break.

If the socket is not working, press the circuit-breaker reset button located near the power cable inlet at the head to reconnect the circuit.

Finally, do not use the auxiliary socket for life-sustaining equipment.



⚠ WARNING ABOUT THE AUXILIARY POWER OUTLET

- Only connect medical-grade devices that consume 5A (120 VAC) / 2.5A (220/230/240 VAC) or less to the auxiliary outlet.
- Connecting an electrical device to the auxiliary outlet creates an electromechanical system, which may reduce the overall level of safety.
- Do not connect an extension cord or multi-tap socket to the bed’s auxiliary outlet.
- **Do not use the auxiliary outlet for life-sustaining equipment.**

4. MAINTENANCE

4.1. Cleaning

Here are the precautions to consider when cleaning the device:

- Do not wash the bed with a high-pressure water jet. Ultrasonic cleaning and immersion of bed components are not recommended.
- Always disconnect the bed from power before cleaning.
- Use hospital-grade cleaning solutions such as Presept, Zochlor, Fectolime, F-12167 Zep, Zep Spirit II, ACCEL Prevention RTU (Virox), Clorox Healthcare Wipes, 3M HWS-100, or commonly used residential soaps. Clean the bed by hand, and cleaning products may be applied by spraying. Ensure the cleaning solution is used at the manufacturer's recommended concentration.
- A chlorine solution of up to 10,000 ppm may be used. Rinse with clear water after the recommended exposure time to remove any excess chlorine residue.
- Steam cleaning is allowed, but do not use a high-pressure jet.
- Ensure that all cleaned parts are completely dry before using the bed.
- If the bed is equipped with a VersaDrive motorized wheel, remove any dust or fiber build-up around the wheel axle.

⚠ WARNING ABOUT CLEANING

- Failure to follow these cleaning safety instructions may compromise the integrity of the bed and render it unusable.

4.2. Preventive maintenance

To ensure the device remains in optimal condition, perform the following checks annually:

- Inspect the overall condition of the equipment to ensure it is still in good working order.
- Connect the device's power cable and leave it plugged in for at least 48 consecutive hours.
- Ensure that all nuts and bolts are securely tightened.
- Inspect the wear of shoulder washers, which reduce friction on moving parts. Do not lubricate—replace if necessary.
- Ensure that no objects or equipment obstruct the movement of the bed's moving parts (e.g., wheels, structure).
- Examine the condition of the remote-control wire, power cord, and bed cables. Replace any damaged components.
- Test all device functions to confirm they operate correctly, following the instructions in this manual (see Section 3).
- Unplug the power cable and operate the actuators to verify battery functionality.
- If the VersaDrive option is installed, test the motorized wheel to assess its functionality and battery life.
- For optimal performance, replace the bed batteries every 3 years.
- Check the accuracy of the weighing system by applying a calibrated weight. If the system is not compliant, contact Rotec for assistance.

⚠ WARNING ABOUT PREVENTIVE MAINTENANCE

- Preventive maintenance is essential to ensure the reliability of the bed. A bed showing any abnormalities must not be used. Any issues must be repaired immediately by an authorized and qualified technician. Failure to follow cleaning safety instructions may compromise the integrity of the bed and result in **SERIOUS INJURY**.
- Using replacement parts that are not certified by Rotec may result in **SERIOUS INJURY AND/OR SIGNIFICANT MECHANICAL FAILURE** and may limit or void the product warranty.
- If any part that provides access to electronic components is broken, the device must be immediately locked down until the damaged part is repaired or replaced. Failure to do so could result in **SERIOUS ELECTROCUTION INJURIES.**

4.3. Disposal of the device at end of life

To ensure the safe disposal of the device at the end of its life cycle, follow these steps:

- **Remove the batteries** and dispose of them at a facility designated for battery recycling.
- **Detach and recycle** the power cables, connectors, motors, circuits, controller, and electronic control system at an appropriate recycling facility.
- **Remove and recycle** the wheels, plastic coverings, panels, side rails, and plastic joints from the bed's mechanisms at a designated recycling facility.
- **Recycle all remaining metal components** according to proper recycling procedures.

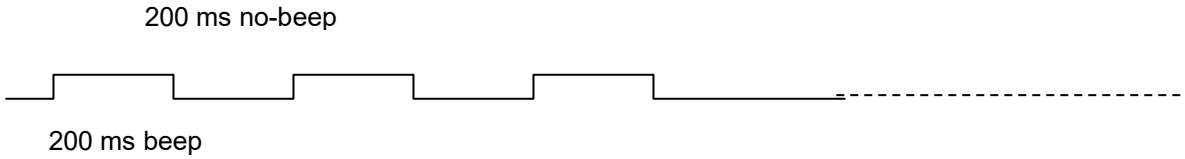
4.4. Troubleshooting guide

If any problems arise with the bed or one of its components, refer to the guide below. If the following or additional problems persist, do not hesitate to contact one of our technicians.

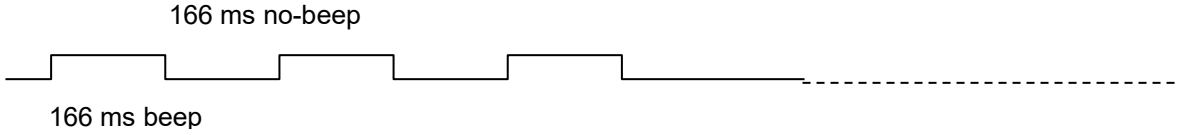
PROBLEMS	VERIFICATIONS
None of the functions of the remote control or the nurse control are working.	- Is the power cord properly plugged in? - Is the power cord damaged? If so, replace it. - Verify all connections.
None of the functions on the remote control are working.	- Is the control lock activated? - Is the remote-control wire properly plugged in? - Is the remote-control wire damaged? If so, replace it.
One or many functions of the remote control are not working.	- Verify the above-mentioned. - Is the control lock activated for these functions? If not, are the nurse control functions working? If so, have the remote control inspected. - Verify the above-mentioned.
The bed runs very slowly.	- Is the power cord properly plugged in? - Is the power cord damaged? If so, replace it.
Device emits one or several audible beeps	- Refer to the next section about acoustical signal explanation

Explanation of acoustical signals

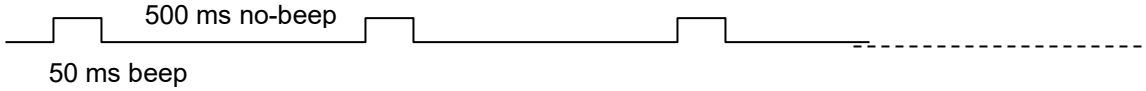
Position Lost:



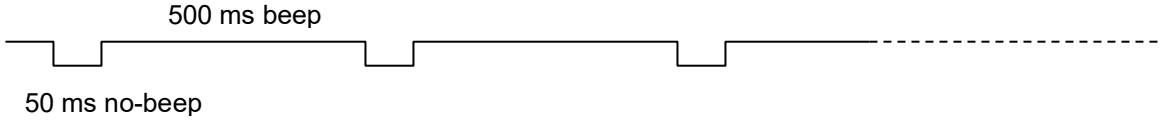
OOBD Alarm:



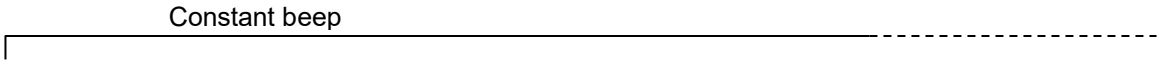
Fatal Error:



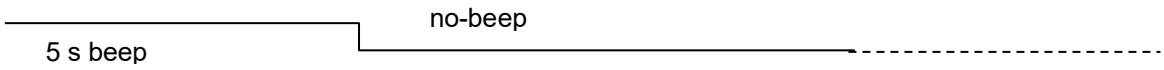
Fatal Error Reset:



Hoot:



Over-heating:



Troubleshooting after a fatal error

When the control box enters fatal error mode, a fatal error beep will sound each time a button is pressed, alerting the user of the issue. Additionally, all lights will flash when the system is in fatal error mode. Each function of the control box reacts to fatal errors in a specific way.

Here are the types of fatal errors:

1) **Actuator positioner error:**
   - Occurs when the control box expects positioning pulses from an actuator but does not detect them.
2) **Motor output error:**
   - Occurs when power demand is generated, but there is no corresponding command.
   - This error is triggered for safety reasons to prevent unintended bed movement unless a specific command (button press) has been issued.
3) **Missing actuator error:**
   - Occurs when a function is called, but not all required actuators are present.

To clear a fatal error, follow these steps:

1. Press and hold both the **height-up** and **height-down buttons** on either:
   - The nurse control at the foot of the bed, or
   - The removable hand control (remote)
2. Hold the buttons for **5 seconds**.
3. You will hear **10 beeps** indicating that the reset is in progress.
4. Once the **beeps stop**, the **reset is complete**.

Note: A fatal error does not erase the actuator position memory. However, the user must verify that the system is in a safe position. Raise the bed to its maximum height to ensure proper actuator position calibration.

5. WARRANTY AND RETURN POLICY

5.1. Limited warranty

Rotec warranty to the original purchaser of bed VersaTech Med-Surg (600 ULB+), the following protections:

- 1 year on manufacturing defect and on the accessories.
- 2 years on motors and electronics components.
- 10 years on the frame.

The warranty coverage begins from the date of purchase of the device. No employee or representative of Rotec is authorized to modify this warranty in any way. This warranty does not cover damages caused by negligence or improper use. Rotec will not be held responsible for any other warranty offered by any person, firm or company, to the exclusion of the one stipulated above. Rotec reserves the right to substitute equal or superior quality materials during repairs and/or replacements. The material replaced and covered by this warranty does not allow one to benefit from a new warranty. It only benefits from the original warranty.

The warranty on the bed and/or its accessories does not apply to damages resulting from modification and/or unauthorized additions or installation of accessories other than those authorized by Rotec. Use only replacement parts supplied by Rotec. Proof of annual preventive maintenance could be asked for to benefit of this warranty.

For further information, contact our Technical Services. Our hours of operation are from Monday to Friday from 8:30 AM to 12:00 PM and 1:00 PM to 5:00 PM.

⚠ WARNING ON WARANTY

- Any modifications to the device without the authorization of Rotec may lead to **SERIOUS INJURY AND / OR IMPORTANT MECHANICAL DAMAGE** and could **LIMIT OR VOID THE PRODUCT WARRANTY.**

5.2. Return policy

Non-compliant product

If a Rotec product does not match the original order invoice, the issue must be reported within 48 hours of delivery. Any necessary corrective actions will be carried out at Rotec's expense and will be addressed as soon as possible following notification of the non-compliance.

Damaged product

It is the receiver's responsibility to inspect the shipment, even if the box(es) appears to be in good condition. Any damage must be noted on the bill of lading. Rotec must be notified within 24 hours of receipt to inform the carrier as soon as possible. If Rotec is not informed within 24 hours, or if damages are not recorded on the bill of lading, the customer may be responsible for all costs incurred to replace or repair the damaged product.

Return product

All returned products require an RGA (Return Goods Authorization) number and are subject to a 25% restocking fee. Additionally, the customer is responsible for all transportation charges related to the return. For more information, please contact our customer service team.