

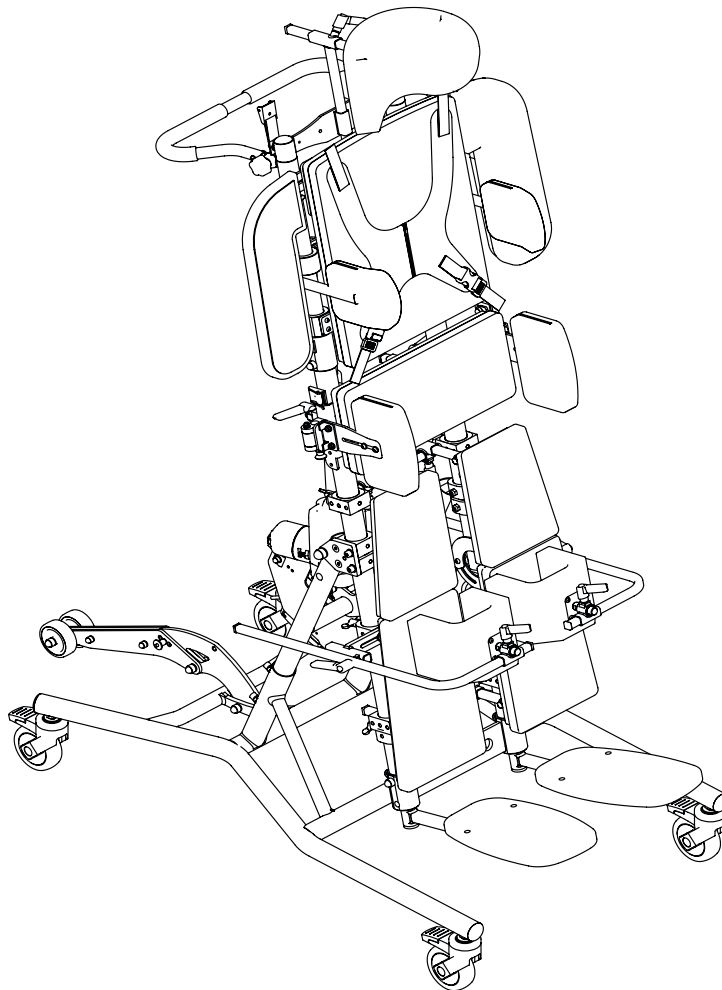
# Upright and Supine Stander Lasse

Model with tilt adjustment - sizes 3, 3G, 4, 5

*INSTRUCTIONS FOR USE*

SERIAL NUMBER: \_\_\_\_\_

English



# Foreword

Dear user,

We are delighted that you have chosen a high-quality product from Rehatec® GmbH and thank you for your trust.

These instructions are designed to help you familiarise yourself with your Upright and Supine Stander Lasse and to show you how to use it quickly and easily in a variety of everyday situations. Once you have adjusted your reclining stander to the optimal settings, it is ready for use—and you can enjoy its benefits for a long time to come.

Please note that the illustrations and descriptions in this manual may differ slightly from your product due to individual configuration options. Rehatec® GmbH reserves the right to make technical changes and improvements. Although these instructions have been prepared with the utmost care, minor errors cannot be completely ruled out. Rehatec® GmbH accepts no liability in such cases.

We wish you much success and enjoyment using your Upright and Supine Stander Lasse.

*Rehatec® GmbH*

## Important note!

These instructions for use provide essential information and guidance on the setup, commissioning, operation, use, maintenance, inspection, care, and reuse of the device. They also contain important safety instructions and usage restrictions to protect the patient, the operator, and third parties.

Please read these instructions carefully before using your new device for the first time. Individuals with sensory, cognitive, or learning impairments may require the content to be adapted for better understanding. This can be achieved, for example, by reading the text aloud, simplifying the language, or providing additional explanations through a third person.

The operator must have read and fully understood the entire manual before using the device. To ensure patient safety, the operator must not have any impairments that could temporarily or permanently limit attention or judgment.

Keep these instructions readily available for future reference and ensure they remain with the product if it is transferred to another user. Should you require a replacement copy, we will be happy to provide one. These instructions can also be viewed and downloaded from our website at [www.rehatec.com](http://www.rehatec.com)

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# 1. Safety

This chapter summarises all safety instructions that you must always observe for your own protection and that of others.

Please follow all instructions in this manual carefully. Incorrect operation can impair important device functions.



All safety instructions and other regulations must be observed at all times by both the patient and the operator. Failure to observe these instructions may result in injury or damage to property.

## 1.1 Warnings









Warning notices differ depending on the hazard, as indicated by the following signal words:























- **CAUTION**           Warning of damage to property!
- **WARNING**       Warning of personal injury!
- **DANGER**       Warning of danger to life!

Warning/information notices have the following structure:




















-  **CAUTION/WARNING/DANGER**  
Type and source of the hazard! Measures to avoid the hazard.
-  **IMPORTANT**  
The information symbol indicates useful tips for easier operation and better understanding.















## 1.2 Safety instructions

-  **WARNING! Depending on the patient's condition and weight, several people (or a patient lift) may be required to transfer the patient to the backboard.**
-  **DANGER! Be careful when adjusting the angle of inclination with a patient on the device or the height of the device without a patient using gas springs. You must expect additional force to be required in both directions (e.g. forwards or upwards).The user must not have any impairments that temporarily or permanently restrict their attention and judgement.**
-  **DANGER! The standing device contains small parts (e.g. tube plugs or protective caps) that could be swallowed by small children or mentally impaired patients! Always ensure that the small parts do not come loose!**
-  **DANGER! Risk of electric shock! Keep children playing away from all electronic components!**
-  **DANGER! The device may only be connected to the mains supply if the mains voltage of the socket corresponds to the information on the type plate or in the "TECHNICAL DATA" section!**
-  **DANGER! The upholstery, wooden and plastic parts installed on the device are not reliably flame-retardant. They are flammable, e.g. by smoking accessories, stoves, cookers, fireplaces and other room heating devices.**
-  **DANGER! Adjustment ranges must not be exceeded. A secure connection of the parts must be ensured.**
-  **DANGER! Perform maintenance at the specified intervals (see chapter "Maintenance").**

-  **DANGER! When sitting down and standing up, do not step on the footrest or similar or lean on the armrest – risk of tipping.**
-  **DANGER! Never turn the drive pipes. This can lead to defects!**
-  **DANGER! Repair and adjustment work, cleaning or disinfection must only be carried out when there are no users in the device.**
-  **DANGER! The maximum permissible patient weight must not be exceeded! See the "Technical Data" chapter or type plate!**
-  **DANGER! Never carry the device with a user in it or transport it in a car!**
-  **DANGER! Do not pull on the motor rods or gas spring pistons when moving the device. It is not permitted to operate the device by pulling on the actuator or otherwise exposing it to lateral forces.**
-  **DANGER! Perform an annual inspection for damage and wear.**
-  **DANGER! Pay attention to warning tones, LED signals, unusual noises, uneven operation or changes in stability. Stop therapy immediately and release the patient if you notice anything unusual.**
-  **DANGER! Handle batteries with care. Do not short-circuit the battery.**
-  **DANGER! Observe the duty cycle: 10%, 2 minutes of continuous operation, followed by an 18-minute break!**
-  **CAUTION! The housings of components must not be exposed to shocks or similar stresses.**
-  **CAUTION! Be aware of the risk of pinching and crushing during all repair and adjustment work.**
-  **CAUTION! Connection cables must remain plugged in during cleaning to prevent water ingress.**
-  **DANGER! If parking brakes or safety switches are defective, the device must be taken out of service immediately! Further use is not permitted!**
-  **DANGER! Only for operation within the specified conditions! See chapter "TECHNICAL DATA".**
-  **DANGER! After each transport in a car, prolonged storage and before reusing the device, all checks must be carried out in accordance with the chapter "Commissioning"!**
-  **DANGER! Combinations of the device with third-party products or non-original parts are not permitted and can be dangerous. The manufacturer accepts no liability for damage and complications resulting from such combinations.**
-  **DANGER! The patient may push off with their feet or hands against a table, wall or other furniture. Increased risk of tipping! See the chapter "Minimum space around the patient".**
-  **DANGER! Hanging lights/cables may pose a risk of electric shock! See the chapter "Minimum space around the patient".**
-  **WARNING! Additional safety instructions for individual points in the chapter "Device settings" must be strictly observed!**
-  **WARNING! If available, the patient should only stand in the device with appropriate footwear.**
-  **WARNING! Defective or damaged lithium-ion batteries are not permitted for transport!**

# 1. Safety

-  **DANGER!** The operator must not have any impairments that temporarily or permanently restrict their attention and judgement!
-  **DANGER!** The base frame has many moving parts! Be careful not to accidentally trap your hands or feet between the moving parts!
-  **DANGER!** The patient must never be left unattended. Constant supervision by an operator (adult) is required!
-  **DANGER!** All settings must be made correctly before each use of the device. Before each use, check that all parts are securely fastened.
-  **DANGER!** The individual limitations and abilities of the user must be taken into account at all times.
-  **DANGER!** It is not permitted to operate the tilt adjustment with patients without the parking brakes activated!
-  **DANGER!** Unauthorised access to the housing of electronic components is prohibited! All electrical components are closed units that do not require internal maintenance!
-  **DANGER!** The device is only approved for use by one person!
-  **DANGER!** The user must be adequately secured/fastened to prevent them from falling out, without restricting their comfort. Use of the device without upper body safety elements (vests) is not permitted!
-  **DANGER!** The Upright and Supine Stander Lasse may only be used by an instructed user who has read and understood the complete instructions for use! Instruction must be provided by the operator/service provider!
-  **DANGER!** The device must not be altered or modified without the manufacturer's permission.
-  **DANGER!** Only use the device on a firm, level surface. There is a risk of tipping and slipping if the surface conditions change.
-  **DANGER!** Limited manoeuvrability on soft surfaces, e.g. carpeted floors – risk of tipping!
-  **DANGER!** When cleaning and disinfecting, remove any residues of the agents used to avoid poisoning, irritation and allergic reactions! See the chapter "Cleaning and disinfection".
-  **DANGER!** All adjustments to elements intended for patient fixation may only be carried out in the horizontal (level) position of the backrest!
-  **DANGER!** Only place weight on the Upright and Supine Stander Lasse in the permitted areas – excessive weight due to incorrect handling (e.g. by attaching objects, leaning on it, etc.) leads to a risk of tipping.
-  **DANGER!** When the height is set to the maximum, the centre of gravity shifts upwards and there is an increased risk of tipping!
-  **DANGER!** Protect the device from moisture! If it comes into contact with moisture, dry it immediately. For further information on protection against water, see the "TECHNICAL DATA" section.
-  **CAUTION!** Repair and inspection work may only be carried out by Rehatec® GmbH and authorised specialist dealers.

-  **DANGER!** Never use the device near or in connection with flammable substances and fire-causing objects.
-  **DANGER!** The user must ensure that no danger arises when the mains plug is plugged in.
-  **DANGER!** Only connect or disconnect electrical components when they are de-energised and dry.
-  **DANGER!** Risk of electric shock! Never pull on the cables to adjust the device! There is a risk of electric shock if the cables are torn or the insulation is damaged!
-  **DANGER!** Risk of electric shock! Never touch the mains plug with wet hands!
-  **DANGER!** Cables lying around are a tripping hazard!
-  **DANGER!** Risk of electric shock! The device's cables are not run-over-proof! If the cable is damaged, the drive must be taken out of operation immediately and disconnected from the power source!
-  **DANGER!** The device is only to be used for therapeutic purposes! It must not be considered or used as a patient lift for further transport or as a ladder!
-  **DANGER!** Risk of explosion! The device must not be used in an environment where flammable or explosive gases or vapours (e.g. oxygen) are likely to occur!
-  **DANGER!** Risk of tipping! Children playing must not pull themselves up on the device!
-  **DANGER!** The battery cells can generate excessive heat in the event of a short circuit or mechanical damage! Fire hazard! Risk of burns! Risk of suffocation from fire products!
-  **DANGER!** It is not permitted to operate the device under the influence of drugs or alcohol, or by operators with cognitive impairments.
-  **IMPORTANT** Both actuators may only be cleaned when the piston rods are fully retracted.
-  **IMPORTANT** Do not expose the components of the drive system to UV disinfection lamps. This can cause damage to the housing, carrier parts and cables.

# 2. Symbols

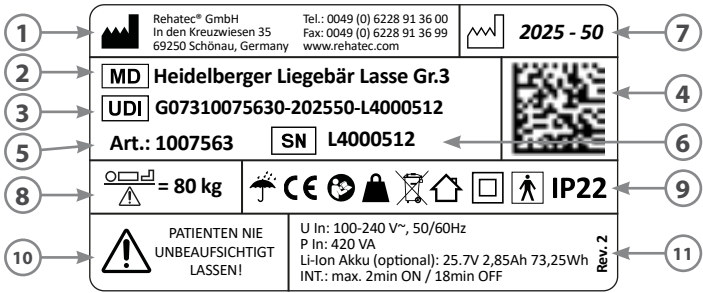
## 2.1 Symbols and signs on the product

1		Follow the instructions for use!
2		Only suitable for indoor use.
3		Manufacturer
4		Date of manufacture (week/year)
5		CE mark
6		Maximum permissible patient weight
7		Maximum permissible nominal load
8		Battery/device disposal
9		Serial number
10		Medical device
11		Unique identifier of a medical device
12		Protect the product from moisture.
13		Warnings. Caution!
14		Caution! The device weighs more than 10 kg! At least 2 people are required to carry the device.
15		Warnings. Risk of crushing hands/fingers!
16		Instructions for use
17		Type BF medical device
18		Class II device
19		Protection class: N1 – degree of protection against foreign objects and contact

## 2.2 Type plate on the device

For clear identification and information purposes, the following labels are affixed to the base frame (see chapter "Product and delivery overview"):

- 1 Manufacturer address
- 2 Device type/name/size (MD = Medical Device)
- 3 UDI number (readable form)
- 4 UDI number (machine-readable code)
- 5 Model number
- 6 Manufacturer serial number
- 7 Date of manufacture (calendar week/year)
- 8 Maximum permissible patient weight/  
Maximum permissible rated load
- 9 Symbols
- 10 Safety notice
- 11 Power supply/Power/Duty cycle



The illustration shows an example type plate. The serial number shown does not correspond to that of your device.



# 3. General information

## 3.1 Definition of terms

### Operator

An operator (e.g. therapy centres, rehabilitation centres, physiotherapy centres, specialist dealers, health insurance companies) is any natural or legal person who uses the device or on whose behalf the device is used.

The operator is responsible for providing proper instruction to operating and specialist personnel.

### Operator personnel

Operator Personnel (e.g. therapists, accompanying persons or assistants) are persons who, due to their training, experience or instruction, are authorised to operate the device and perform therapeutic work on it. Furthermore, the operator must be able to recognise and avoid potential hazards and assess the physical abilities and state of health of the patient.

Operators must be instructed in the use of the device.

### Specialist personnel

Specialist personnel are employees of the operator who, due to their training or instruction, are authorised to transport, adjust and maintain the device. They are also instructed in the regulations for carrying out inspections, cleaning and disinfection.

### Patient

In these instructions for use, a patient is defined as a physically disadvantaged person who is placed in an upright standing position.

## 3.2 Intended purpose / Scope of application

The Heidelberg Upright and Supine Stander Lasse device is designed for patients with standing impairments to maintain as physiological a standing position as possible for a few hours per day and to ensure stable standing. It enables the positive effects of a standing body position to be achieved. The standing device is equipped with a gas pressure spring to make it easier for the patient to stand up.

## 3.3 Indications, contraindications and risks

The Heidelberg Lasse standing device can be used for the following indications.

Complete/incomplete hemiplegia/hemiparesis, possibly involving the trunk muscles, as a result of a brain disorder (e.g. stroke, brain tumour). For complete/incomplete paralysis of the arms and legs (tetraplegia/tetraparesis) and, if necessary, involving the trunk muscles as a result of a disease of the brain (e.g. multiple sclerosis, brain injury), the spinal cord (e.g. poliomyelitis, spinal cord syndrome due to trauma or tumour) or the peripheral nervous system/muscle diseases (e.g. Guillain-Barré syndrome, muscular dystrophies) In cases of complete/incomplete paralysis of the legs (paraplegia/paresis) and, where applicable, involving the trunk muscles as a result of a disease of the spinal cord (e.g. spinal cord injury due to traumatic/inflammatory/tumourous thoracic and lumbar spinal cord lesions) or diseases of the peripheral nervous system/muscle diseases (e.g. polyneuropathy, muscular dystrophy)

Before using the standing system, a doctor should be consulted to determine whether there are any contraindications. The indications for use must be monitored by a doctor or therapist at regular intervals.

As a general rule, any type of pain is a contraindication!

Depending on the clinical picture and therapy, a doctor or therapist must be consulted to determine how long a patient can remain in the standing device. The following symptoms may occur: circulatory problems, pain in the legs and/or back, increased spasticity, seizures. Use of the device in cases of scoliosis in the patient's clinical picture only after consultation with the attending physician.

Many patients can initially only stand in a bent position and can only be fully stretched later. Never correct posture by force or applying strong pressure.

The device does not correct poor posture and is not suitable for growth guidance!




## 3.4 Responsibility

The operator is responsible for:

- the intended use according to the operating instructions and other information in this user manual.
- the necessary regular inspection and maintenance of the standing device. (For information on maintenance intervals, see section "8.1 Maintenance and inspection").
- compliance with the prescribed maintenance intervals.

The user is responsible for:

- the necessary regular cleaning and maintenance as well as inspection before each use of the standing device (for cleaning instructions, see section 7; for inspection instructions, see section 8)

- **DANGER Product modifications, repairs and maintenance work must be carried out in accordance with the inspection schedule, and system upgrades may only be performed by authorised persons!**
- **IMPORTANT** Rehatec® GmbH will only provide a warranty if the product is used for its intended purpose under the specified conditions and only original accessories are used!
- **IMPORTANT** All serious incidents related to the product must be reported to the manufacturer and the competent authority. The competent authority in Germany is the BfArM!

# 3. General information

## 3.5 Intended use

 **WARNING** Read the chapter entitled "Technical Data" for important conditions of use!

 **DANGER!** Proper use requires strict adherence to all instructions in this manual!

 **DANGER!** Before using the device, check the following points with your doctor:

- **Device use for specific medical conditions (Contraindications).**
- **Maximum recommended usage duration to prevent potential injuries.**
- **Appropriate straps to secure patient positioning.**
- **Required accessories for proper and safe positioning of joints and body parts.**
- **Maximum setting limits of the positioning components.**
- **Recommended frequency of device use / therapy schedule.**

The "Heidelberger Upright and Supine Stander Lasse" device is designed for use indoors at ambient temperatures between 15 °C and 35 °C. Use in wet areas is not permitted. The device must also be kept away from heat sources and strong sunlight – risk of burns! Failure to observe this warning may result in significant damage and endanger both the user and the assistant.

The device must not be used indoors:

- with very high humidity of over 70%
- that are part of wet areas (showers, swimming pools, etc.)
- where there is a risk of explosion or where flammable anaesthetic products are present.

**The standing device is intended for therapeutic use and not for patient lifting or transport.**

Electrical installations must comply with local standards, which stipulate the necessary conditions for electronic installations.

Depending on the model, the device must be connected to a suitable power source for use. In an emergency or in exceptional situations (e.g. during a thunderstorm), the device must be switched off by pulling the mains plug.

This product is designed exclusively for use by competent users who have been instructed by the operator. Areas of application include: physiotherapy, rehabilitation, medical therapy and home use.

Rehatec® GmbH does not guarantee the suitability of this product for a specific therapeutic or diagnostic purpose. The user determines the appropriate use.

In order to ensure safe and successful operation for users of Rehatec® GmbH devices, all instructions, precautions and information in the operating instructions must be observed.

## 3.6 Declaration of conformity

The corresponding declaration of conformity can be found at [www.rehatec.com](http://www.rehatec.com) in the download area.

The CE mark must be removed if the Rehatec® product is modified, altered or used in combination with unauthorised products from other manufacturers.

The CE mark also becomes invalid if non-Rehatec® original spare parts/accessories are used.

## 3.7 Service life

You can find a corresponding list of service lives at [www.rehatec.com](http://www.rehatec.com) in the download area..

 **IMPORTANT** If the device is more than 4 years old, it is recommended that the battery be replaced with a new one.

## 3.8 Service/complaints

**Rehatec® GmbH** is happy to assist you with any complaints, enquiries and further information or orders for accessories and retrofittable additional equipment.

Further information can be found on our website at [www.rehatec.com](http://www.rehatec.com).



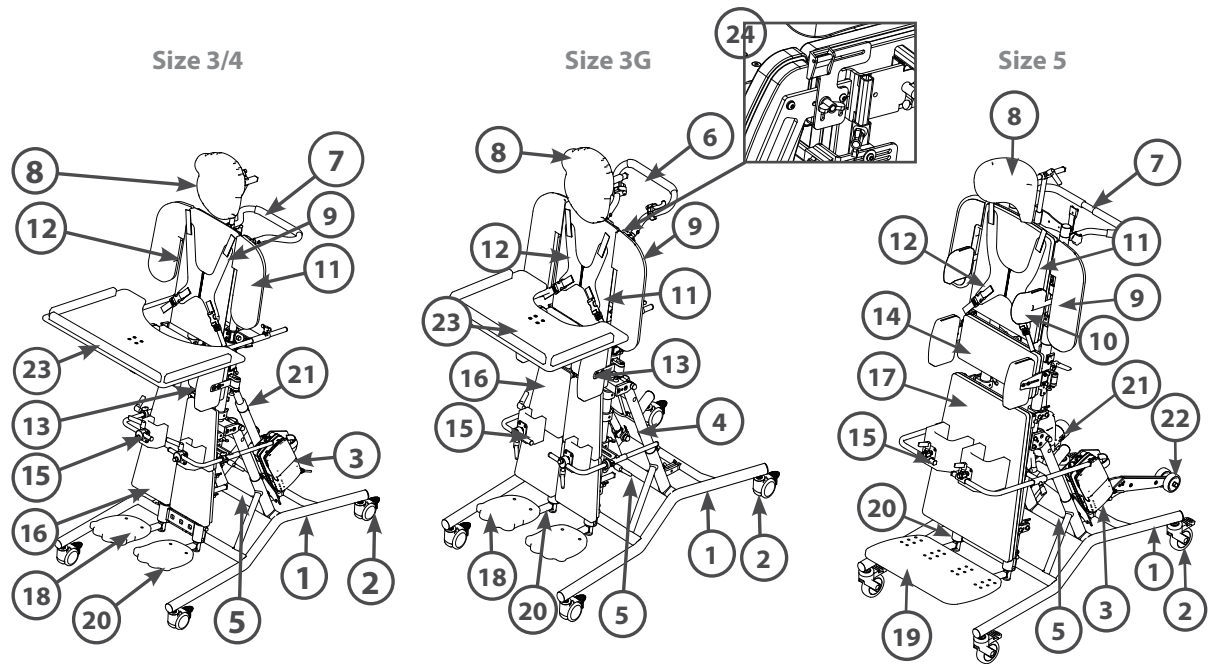
# 4. Product and delivery overview

## 4.1 Scope of delivery and basic equipment

The Upright and Supine Stander Lasse is available in different sizes. Technical data on size and permissible weight can be found in the table in the "Technical Data" section. The Upright and Supine Stander Lasse is usually delivered fully assembled and in its default setting. To prevent damage during transport, plug-in and unfastened parts are packed separately in the box.

Upright and Supine Stander Lasse , Size 3, 3G , 4 und 5: Standard model with tilt adjustment (Standard)

**i** The illustration may differ from your product due to individual configuration options.



- 1

base frame
- 2

Transport castors
- 3

Control with power cord, hand switch and rechargeable battery\*
- 4

Lockable gas springs
- 5

Type plate
- 6

Push bar with release levers
- 7

Push bar
- 8

Headrests
- 9

Armrests
- 10

Side guide pads
- 11

Backrest
- 12

Undershirt
- 13

Pelvic pads with side pads
- 14

Pelvic plate with side pads
- 15

Knee pads
- 16

leg insertion
- 17

leg plate
- 18

Split footplates
- 19

Continuous footplate
- 20

Footrest
- 21

Incline drive
- 22

Anti-tip device
- 23

Therapy table
- 24

Shoulder strap guides

(\*) - Optional for devices with electric tilt adjustment

Basic equipment Lasse Size 3 / 4	Basic equipment Lasse Size 3G	Basic equipment Lasse Size 5
Base frame with 75 mm transport castors, slope adjustment via electric motor	Base frame with 75 mm transport castors, tilt adjustment via gas spring	Base frame with 100 mm transport castors, tilt adjustment via electric motors, including Li-ion battery
Backrest	Backrest	Backrest
Split basin plate, with swivelling basin pads	Split basin plate, with swivelling basin pads	Split basin plate, with swivelling basin pads
Split leg rests	Split leg rests	Full-length leg rests
Split footplates	Split footplates	Continuous footplate
Vest	Vest	Vest
Reset adapter for headrest	Reset adapter for headrest	Reset adapter for headrest
Knee pads	Knee pads	Knee pads
headrest	headrest	headrest
Shoulder strap guides	Shoulder strap guides	Shoulder strap guides
		anti-tip device

## 4.2 Accessories

Accessories are parts or components that are not included in the basic equipment of your recliner.

We recommend that you order any accessories you require when placing your initial order. However, you can also purchase and install all accessory components at a later date.

For further information, please contact your operator/service provider.

**i** Further information and data can be found at: [www.rehatec.com](http://www.rehatec.com). Or simply request it by e-mail, fax or post.

**⚠ CAUTION** When selecting and attaching accessories, care must be taken to ensure that the mobility and functionality of the device are not impaired!

## 4. Product and delivery overview

You can optionally purchase the following accessories:

- Wall and furniture protection
- Headrests (bear/shell shape/adjustable)
- Harness (Pelvi.Loc/vest)
- Lateral support pads (swivelling/removable)
- Continuous pelvic plate (for sizes 3 and 4)
- Armrests with different mountings
- Therapy table (standard/with therapy recess)
- Knee pads (standard/anatomical)
- Leg guides, angle-adjustable/split (without hinge)
- Abduction adjustment (for sizes 3 and 4)
- Angle-adjustable foot support
- Pointed foot correction
- Stop (adjustment ring) Knee depth adjustment
- Foot shells with foot straps
- Push bar
- Transport castors Ø100mm or Ø125mm
- Lithium-ion battery







### 4.3 Checking the delivery

Please check your delivery for completeness, integrity and possible contamination.

In the event of damage, incorrect delivery or incomplete delivery, please contact our customer service department:


**Telephone number: +49 (0) 6228 - 91 36 - 0**

When reordering accessories or spare parts, you should always provide the serial number. The serial number is located on the type plate (see chapter "2.2 Type plate on the device").

-  **DANGER Risk of suffocation! Any packaging film must be kept away from children!**
-  **DANGER If the device is defective, damaged or modified, it must not be used and must be taken out of service immediately!**
-  **WARNING Combining the device with third-party products is generally not permitted and can be dangerous. The manufacturer accepts no liability for damage or complications resulting from such combinations!**
-  **DANGER! The electrical device must not be operated by small children or untrained personnel/users/operators!**
-  **DANGER! The control unit may only be connected to the specified voltage. See chapter "TECHNICAL DATA".**
-  **IMPORTANT** The control system, manual controls and drives are maintenance-free and designed to last for the entire service life of the device. Parts such as the battery and the safety switch may need to be replaced due to capacity reduction/wear.

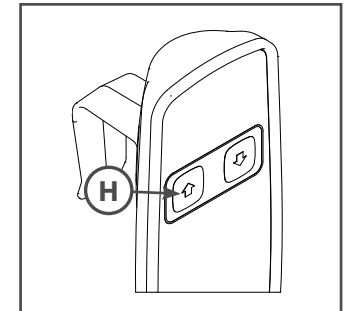
## 5. Operation

### 5.1 Manual operation

-  **IMPORTANT** Do not use sharp objects to operate the keypad.!

The device is operated using the hand control. The lower row of buttons [H] is used to adjust the height.

The motor only operates when the button is pressed and held down. Release the button as soon as you have reached the desired position. Avoid switching quickly and repeatedly from one direction of travel to the opposite direction without allowing the motor to stop.



### 5.2 Control unit

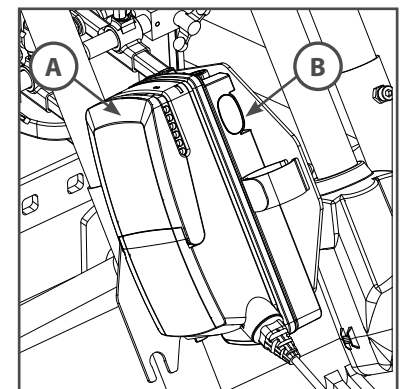
The control unit [A] evaluates and provides information about the status of the system and the control according to the programmed parameters.



We recommend always positioning the device (even devices with rechargeable batteries) near a mains power supply socket (230 V, 50/60 Hz).

After connecting the power supply, the device switches on with a delay. Wait at least 15 seconds before use and check the status of the control system.

See the chapters "LED indicators" and "Acoustic signals" for detailed descriptions of the status indicators.

For configuration with rechargeable battery. As an alternative to the mains cable connection, the motors can be operated with a lithium-ion battery [B]. As long as the control unit is supplied with mains voltage, the automatic charging circuit (charger is integrated in the battery) ensures permanent operational readiness. The connected battery is charged automatically as soon as the mains plug of the control unit is plugged in.

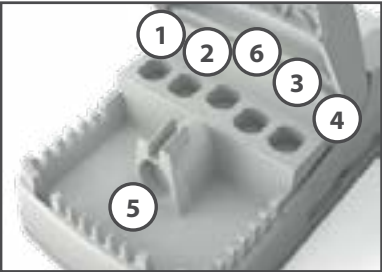


-  **DANGER! The device may only be connected to the mains power supply if the mains voltage of the socket corresponds to the information on the type plate or in the "TECHNICAL DATA" section!**
-  **DANGER! Opening the housings of electronic components is prohibited! All electrical components are sealed units that do not require internal maintenance!**

# 5. Operation

**i** **IMPORTANT** When connecting the drive or manual control cables, ensure that they are connected correctly. All free sockets must be fitted with blanking plugs!

Socket	connection
1	incline drive
2	blind plug
3	blind plug
4	blind plug
5	manual operation
6	Battery or dummy plug



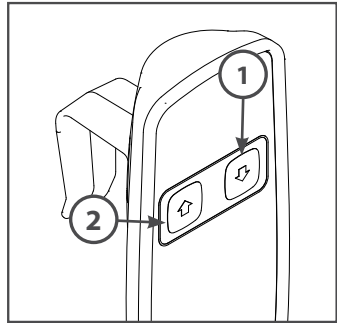
## 5.3 Audible signals

The buzzer emits a continuous warning when a button on the hand-held control is pressed and the battery capacity is low. Connect the device to the mains immediately!

You will hear several short warning tones when the button is pressed if the position of the drive cannot be determined by the control system or if the components are not connected correctly.

To reinitialise the motor, the drive must be retracted completely to the end. To do this, first press the two buttons "1" and "2" (approx. 5 seconds) on the hand-held control unit simultaneously and then press button [2] alternately until the motor is completely retracted..

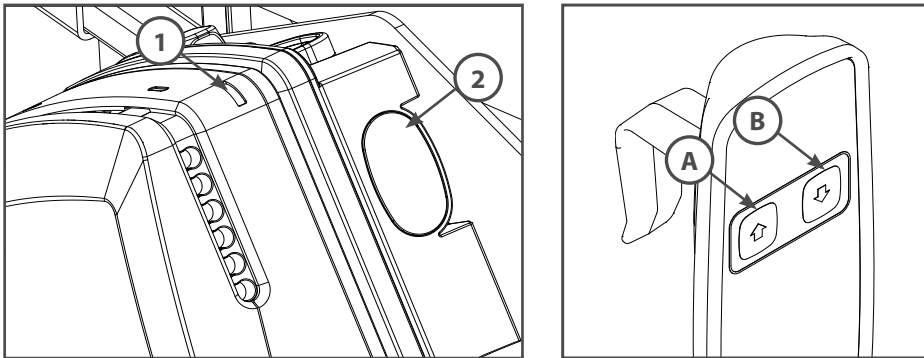
**If this does not solve the problem, please contact your specialist dealer.**



## 5.4 LED – indication

The controller is equipped with a green LED for the mains display. When the controller is connected to the mains, the LED lights up green. If it is only connected via the battery, the LED is off.

Other possible LED signals are listed in the following table.



LED colour	operating indicator
LED display #1 (control) – connected to the mains	
green	Connected to the mains, but not activated via manual control. The system is functioning properly and is ready for normal operation.
Yellow	Connected to the mains, but not activated via manual control. The system is defective and should not be operated.
Yellow	Connected to the mains, activated via manual operation (when button [A] or [B] is pressed) The system is functioning correctly.
No LED light	<b>Not connected to the mains</b>
LED display #1 (control) – not connected to the mains, but with battery backup	
Orange	Battery-powered, activated by manual control. The system functions perfectly.
No LED light	Connected to the mains, but not activated via manual control (standby mode) or the control unit is not connected to the mains.
LED indicator #2 (battery)	
Solid yellow	Charging
No LED light	Fully charged
Flashing yellow *	Error during charging





(\*) - When the battery is completely discharged, charging starts at a very low speed to protect the battery from damage. In this case, the yellow LED flashes. If the battery does not stop flashing within 12 hours and does not switch to normal charging (LED lights up yellow continuously), the battery is defective and must be disposed of according to the instructions.

# 5. Operation


## 5.5 Duty cycle

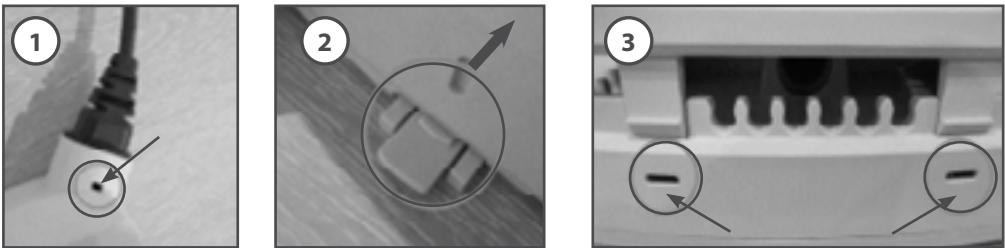
The drive may be operated for a maximum of 2 minutes under rated load, after which an 18-minute break must be taken. Alternatively, operate the tilt drive for a maximum of 5 switching cycles per minute under rated load, otherwise a malfunction may occur.



## 5.6 Lithium-ion battery

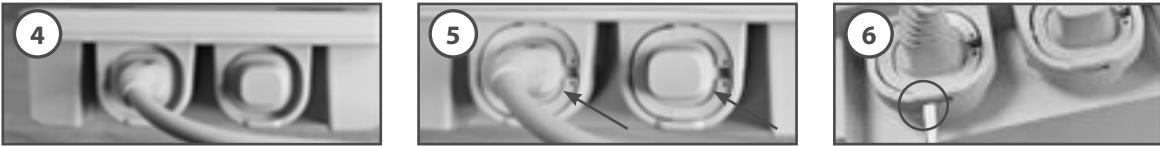
- **DANGER!** The battery cells can generate excessive heat in the event of a short circuit or mechanical damage!
- **DANGER!** Defective or damaged batteries are not approved for transport and must be disposed of in accordance with local regulations.
- **DANGER!** Observe the duty cycle: 10%, 2 minutes of continuous operation, followed by an 18-minute break!
- **IMPORTANT** Lithium batteries are dangerous goods and therefore require special transport packaging. All national and international shipments containing lithium batteries are subject to the transport regulations for dangerous goods in accordance with ADR, RID, ADN, IMDG, ICAO/IATA regulations.
- If you are shipping lithium-ion batteries individually, use a label with UN3480.
- If you are shipping lithium-ion batteries that are contained in devices or packed with devices, use a label with UN3481.




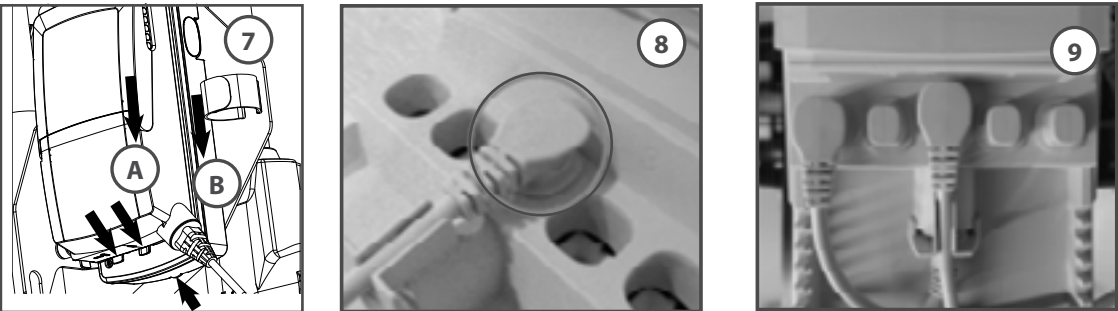
- **IMPORTANT** Read the chapters "LED Indication" and "Audible Signals" for a detailed description.
- Follow the steps and instructions below to install (remove/replace) the battery..
1. Disconnect the power cord from the mains. Remove the power cord from the control unit by inserting a screwdriver into the marked retaining clip (Figure 1).
  2. Detach the control unit from the device by pressing the tab on the two mounting clips and sliding the control unit in the direction of the arrow (Figure 2). Open the cover of the control unit by loosening the locking clips with the screwdriver (Figure 3) and disconnect the motor and control cables.




- **IMPORTANT** When disconnecting the drive cables or manual control cables, please note the correct connections.
3. Plug the supplied battery connection cable into one of the two battery terminals (Figure 4). Ensure that it is fully connected.
  4. Plug the supplied blanking plug into the second battery terminal (Figure 4).
  5. Secure the battery connection cable and the blanking plug with the retaining rings (Figure 5)..
- **Use a thin screwdriver to remove the retaining ring (Fig. 5). Insert the screwdriver into the slot on the connection cable (Fig. 6). Push the retaining ring upwards with gentle pressure. Once the retaining ring has been removed, the connection cable can be pulled out.**



6. First connect the battery [A] and then the control unit [B] to the device and ensure that the locking clips are fully engaged (Figure 7). If the clips are not fully engaged, the tab (shown in Figure 2) will protrude.
  7. Plug the battery connection cable (Figure 8) into the battery connection and the other component into the control unit. Ensure that everything is fully connected and that all free sockets are fitted with blanking plugs (Figure 9).
- **IMPORTANT** When connecting the drive cables or manual control cables, please ensure that the connections are correct. All free sockets must be fitted with blanking plugs!
8. Close the control unit cover and ensure that the locking clips are fully engaged.
  9. Reconnect the power cable to the control unit and ensure that the safety clip is engaged (Figure 1).



The procedure is identical for removing and replacing the battery.

- **IMPORTANT** Fully charge the battery before using it for the first time!
- The first charge can take up to 12 hours. Under normal use, after an alarm or when the battery capacity is low, the battery charging time is approximately 10 hours.
- The connected battery is charged automatically as soon as the control unit is plugged into the mains. Charging and adjusting the drives can be done simultaneously. In the event of a power failure, the charged battery automatically supplies the control unit with power.



# 5. Operation

Recharging during storage: The battery must be charged for the first time no later than 12 months after the date of manufacture indicated on the label. After that, the battery must be charged at least every 12 months.

**i** **IMPORTANT** Read the chapters "LED Indications" and "Audible Signals" for detailed descriptions of the indications.

Deep discharge protection: The battery has deep discharge protection to protect the battery's service life. Deep discharge protection is activated when the battery is discharged.

Recharge the battery before storage if it has been completely discharged.

**!** **CAUTION** Charge the battery to exit deep discharge mode. Ensure that the battery is sufficiently charged before use! If these attempts are unsuccessful, your battery must be replaced!

**!** **DANGER!** If the battery becomes hot, disconnect the cable connection and remove the battery from the room. If it is not possible to remove the battery, evacuate the room.

**i** **IMPORTANT** If the battery is completely discharged, charging will start at a very low speed to protect the battery from damage. In this case, the yellow LED will flash.

**i** If the battery does not stop flashing within 12 hours and does not switch to normal charging (LED lights up continuously yellow), the battery is defective and must be disposed of according to the instructions.

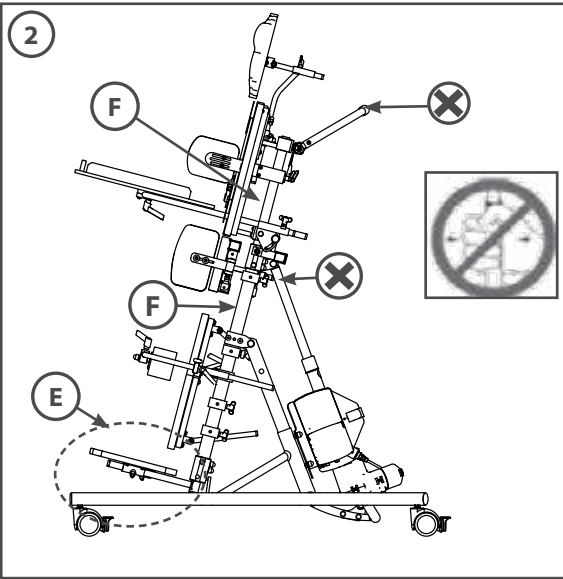
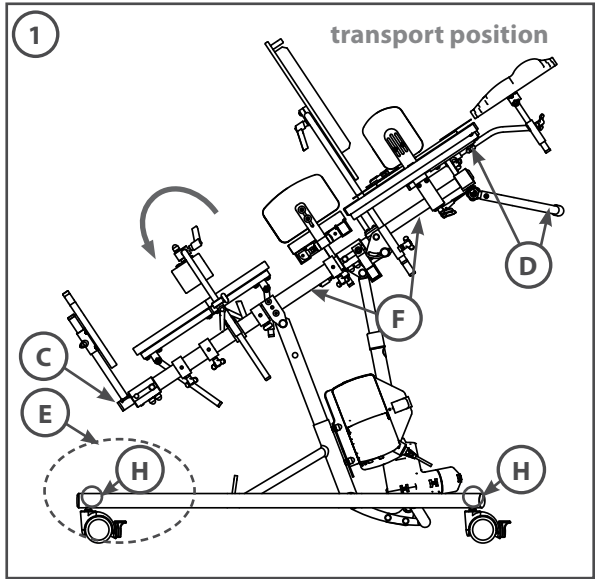
**i** **IMPORTANT** In case of overheating, the device activates thermal protection. No output power is available until the temperature returns to the normal operating range. Excessive use at high temperatures or exceeding the switch-on time can lead to overheating!

**i** **IMPORTANT** Dispose of the batteries in accordance with local regulations.

**i** **IMPORTANT** If the device is more than 4 years old, it is recommended that the battery be replaced with a new one when it is replaced.

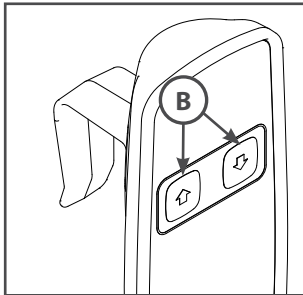
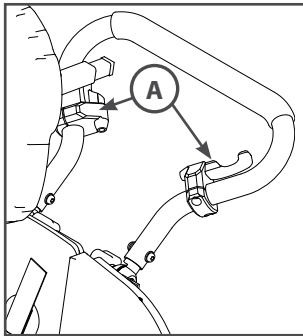
## 5.7 Device and patient transport

**!** **CAUTION! Risk of accident! Before transport, the patient must be secured against accidental falling out by means of straps and knee pads.**



For safe and comfortable transport of equipment and patients, adjust the horizontal position of the stretcher board or a transport position (Figure 1). To do this:

- For adjustment using a gas pressure spring, activate the corresponding release lever [A] to tilt the backrest. A comfortable and safe angle of inclination for transport is possible at approx. 45 degrees.
- To adjust using the electric drive, press the corresponding button [B] to tilt the backrest. A comfortable and safe angle of inclination for transport is possible at approx. 45 degrees.
- Use the holding or sliding points [C], [D] or [F] for product transfer. For more information on inclination, see the chapter "Adjusting the device, inclination adjustment"..



To transport patients in a standing position (Fig. 2) from the backboard, always adjust the backboard to as horizontal a position as possible first. Be aware of possible collisions with the floor or fixed parts/obstacles in area [E]. Use the holding and pushing points [F] for product transfer.

**!** **CAUTION! Risk of tipping! When pushing in a standing position, always use the points mentioned to ensure a safe transfer. It is not permitted to push the device above the hips or on the back!**




**!** **ATTENTION! It is not permitted to pull the device by the tilt drive or expose it to other lateral forces!**  
For safe and convenient transport of the device:

1. Set the reclining board to the horizontal position.
2. Grasp the device on the right and left at the front and rear at the holding points [H] and lift it simultaneously with two people.

# 5. Operation

 **CAUTION!** The standing device is very heavy and must only be lifted by at least 2 people!!

## 5.8 Commissioning for devices with electric (optional) and manual tilt adjustment

-  **WARNING** Ensure that no one can be injured while using the actuator/gas spring.
-  **WARNING** Always keep an eye on the drive and all moving parts!
-  **DANGER** In an emergency, the system can be shut down by pulling the mains plug. Therefore, the mains plug must be accessible at all times during operation so that it can be quickly pulled out of the socket in an emergency! Pull the battery plug out of the control socket.

Before the patient can be positioned in the Lasse, the device is adjusted to the patient's needs.

Detailed descriptions of the individual adjustment options for the patient's needs are provided in the following chapter.


**For devices with electric tilt adjustment,** please first carry out a visual inspection of the device to confirm the following:


- 1.All cables are plugged in all the way.
- 2.Cables and housings of electronic components are free of visible defects.
- 3.All screw connections have the necessary counterparts and are securely fastened.
- 4.Frame components and transport rollers are free of cracks and are not deformed.
- 5.Transport rollers are all securely fastened and parking brakes function properly.
- 6.All clamping elements of positioning elements (e.g. footboard) are available and functioning.
- 7.All contact surfaces are dry and free of contamination.
- 8.All folding shells are securely fastened and guarantee reliable belt tension.

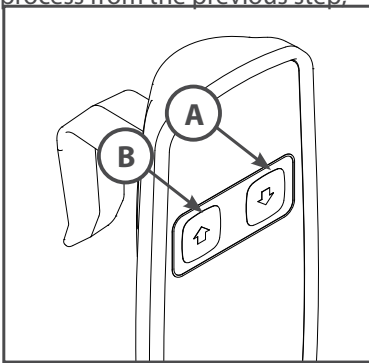
 **DANGER!** If defects are found during the visual inspection, the device must not be used until they have been rectified!


The next step is to check that the electrical system of the appliance is working properly. Please follow all the checks listed (read the description of how to operate the appliance and its components in the relevant sections of the operating instructions):


9. Connect the device to the power supply; the LED indicator on the control unit should not show any errors and should be green.
10. First set the device to a horizontal position (button A) and then to a vertical position (button B). The motor must reach the stop. There should be no jerking, creaking, vibration or extraneous noise! Pay attention to the acoustic and LED signals from the control unit.
- 11.For the final check, the battery must be fully charged and the controller should not emit any acoustic warnings or LED signals. Disconnect the device from the mains and repeat the process from the previous step, but use the battery.


 **DANGER!** Always be aware of potential collisions between moving and stationary parts in areas [E]! If the foot brackets collide with the floor when adjusting the tilt, there is a risk of the device tipping over!


 **DANGER!** If malfunctions are detected in the system during functional testing, the device must not be used until they have been rectified!

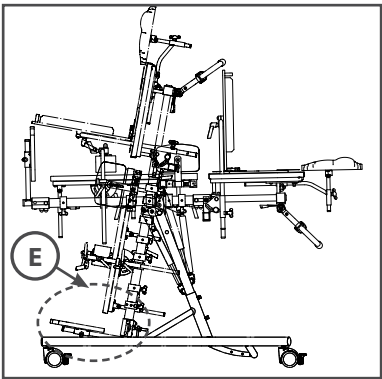


 **DANGER!** The electrical device must not be operated by small children or untrained personnel/users/operators!

 **DANGER!** The control unit must only be connected to the specified voltage. See the "TECHNICAL DATA" section.

 **IMPORTANT** The control system, manual controls and drives are maintenance-free and designed to last for the entire service life of the device. Parts such as the battery and manual switch may need to be replaced due to capacity reduction/wear..

 **WARNING** Before initial use, the battery must be fully charged for at least 24 hours. The battery must be connected to the control unit!




**For all configurations of the device,** please first carry out a visual inspection of the device to confirm the following:

- 1.The Bowden cable is free of defects and securely mounted.
- 2.The gas spring has no oil leaks and the frame has no visible defects.
- 3.All screw connections have the necessary counterparts and are securely fastened.
- 4.Frame components and transport rollers are free of cracks and are not deformed.
- 5.Transport rollers are all securely fastened and parking brakes function properly.
- 6.All clamping elements of positioning elements (e.g. footboard) are available and functioning.
- 7.All contact surfaces are dry and free of contamination.
- 8.All folding shells are securely fastened and guarantee reliable belt tension.
- 9.Vests/harnesses are free of defects. The plug connections and zip fastener are functioning securely.

The next step is to check that the tilt setting of the device is functioning correctly. Please follow all the checks listed (read the description of how to operate the device and its components in the relevant sections of the operating instructions).

- 1.Activate all parking brakes.
- 2.First set the device to a horizontal position and then to a vertical position (release levers A) ; the backrest should reach the stops; there should be no jerking, creaking, vibrations or extraneous noises to be heard or seen!
- 3.Then slightly change the angle of inclination (approx. 20 degrees) and release the release levers [A].
- 4.Press gently but firmly on the marked areas [D] alternately. The tilt adjustment is working correctly if the reclining board can be fixed in all positions.

 **DANGER!** Always be aware of potential collisions between moving and stationary parts in areas [E]! If the foot brackets collide with the floor when adjusting the tilt, there is a risk of the device tipping over!

 **DANGER!** If malfunctions are detected in the system during functional testing, the device must not be used until they have been rectified!



## 5. Operation

Before the Upright and Supine Stander Lasse is adjusted to the user's needs and the user can be transferred to the reclining bear, the following preparations must be made:

**! DANGER!** The device may only be adjusted by the operator/ service provider!

**! WARNING:** Care must be taken to avoid the risk of pinching and crushing during all adjustment work. The adjustments should be carried out by two people to prevent possible injuries!

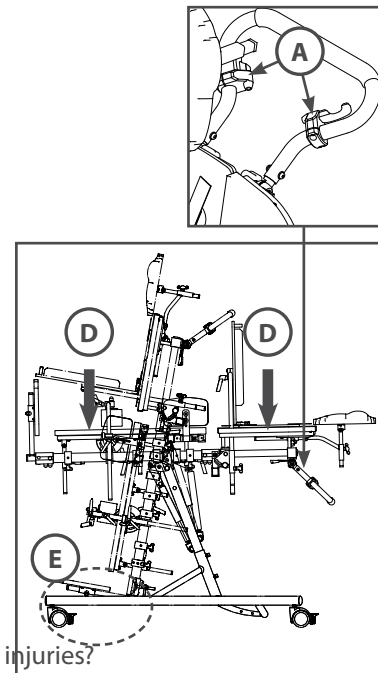
**! WARNING** The device must be placed on a non-slip, level, stable and horizontal surface, and the transport castors must be locked before adjusting the device.

**! DANGER!** Before using the device, check the following points with the attending physician:

- Disease-specific use of the device (contraindications).
- How long may the patient remain in the device to prevent possible injuries?
- Suitable straps for securing the patient safely.
- Necessary accessories for correct and safe joint/body positioning.
- Maximum possible adjustment limits of the device's positioning elements.
- Frequency of use of the device/therapy plan.

**! DANGER!** Some settings on the device can only be adjusted without a patient or in a horizontal position.

**! DANGER!** Some settings on the device require additional space for safe device handling. See "Minimum clearance around the patient" for the necessary dimensions.



## 6. Operation/settings of the device and accessories

### 6.1 Transport rollers

The four castors are equipped with locking brakes.

**! WARNING** The Lasse Upright and Supine Stander must be placed on a firm, level and horizontal surface.

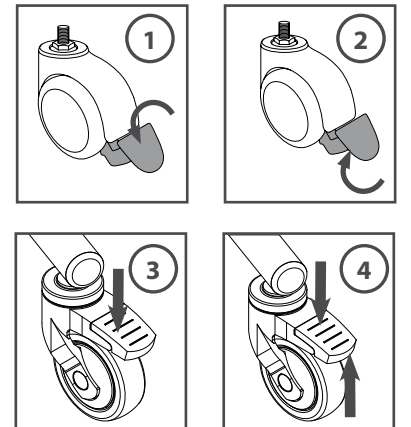
**! WARNING** When using the device, only wear closed shoes with a firm toe cap!

**! WARNING** To prevent accidental rolling away, all four transport castors must be locked.

**Blocking the rollers:** Press the lock downwards (Figures 1 and 3).

**Releasing the rollers:** Press the lock upwards with the tip of your foot (Figure 2).

Optional for castors Ø 100 mm and Ø 125 mm: press the lock down or up as shown in Figure 4.



### 6.2 Tilt adjustment

**! DANGER!** Please note that changes in height will shift the centre of gravity of the device! Use the "transport position" to move the device with or without the patient. Follow the instructions in the chapter "Device and patient transport". Risk of tipping over and injury!

**! DANGER!** An inclination setting of more than approx. 45° with the patient in the device is only permitted if the locking brakes on all transport castors are activated!

**! DANGER!** The patient must always be secured with knee pads, appropriate straps, footboards, foot shells and the necessary side pads before the device is raised – otherwise there is a risk of injury!

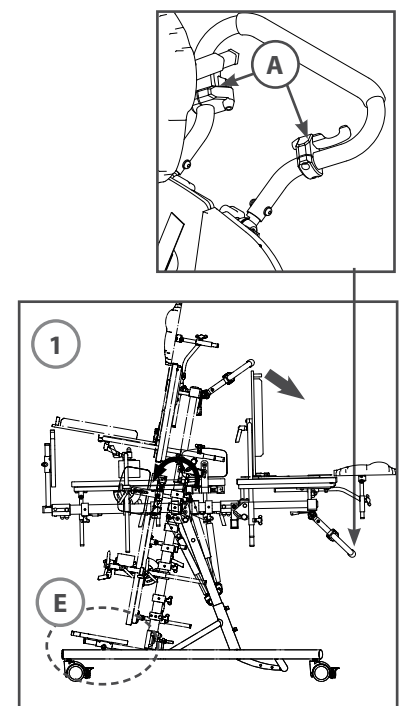
**! DANGER!** The base frame has many moving parts! Take care not to accidentally trap your hands and feet between the moving parts!

**! DANGER!** To avoid circulatory problems, raise and lower the patient slowly and gradually! Use the protractor to check the angle of inclination.

*For devices with mechanical tilt adjustment (Figure 1)*

To adjust the angle, press both release levers [A] and simultaneously pull the sliding bracket in the desired direction. The most favourable directions for applying force are marked with arrows.

Once the desired angle has been achieved, release the release lever [A] from the gas pressure spring..



# 6. Operation/settings of the device and accessories

**⚠ DANGER!** Exercise caution when adjusting the tilt angle with a patient using gas springs. You must anticipate additional forces being required in both directions (e.g. forwards or upwards).

*For devices with electric tilt adjustment (Figure 2)*

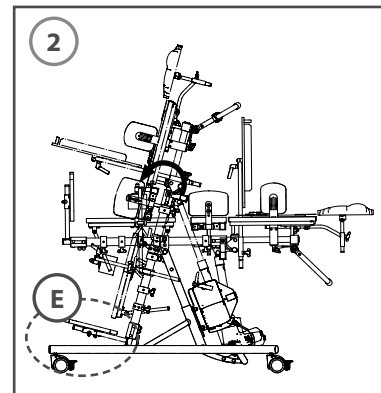
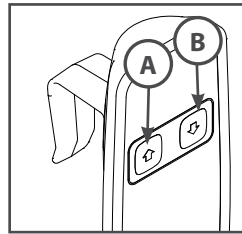
The Upright and Supine Stander Lasse Size 3-5 has an electric tilt adjustment that can be operated with a hand switch.

To move to the standing position, press button [A] on the hand switch until the desired position is reached.

To move to the lying position, press button [B] on the hand switch until the device is in a horizontal position.

**⚠ DANGER!** Always be aware of potential collisions between moving and stationary parts in areas [E]! If the foot supports collide with the floor when adjusting the tilt, there is a risk of the device tipping over!

**⚠ DANGER!** The anti-tip device on Lasse Size 5 must be activated during every use! See chapter "Anti-tip device"..



## 6.3 Separate Footplates

The Upright and Supine Stander Lasse comes with two footplates that can be easily adjusted to the position of the feet. The wide range of adjustment options allows the foot length and ankle position to be taken into account, as well as the therapy goal (e.g. pes cavus correction, if available in the accessories).

**⚠ DANGER!** Only adjust the reclining board when it is in a horizontal position!

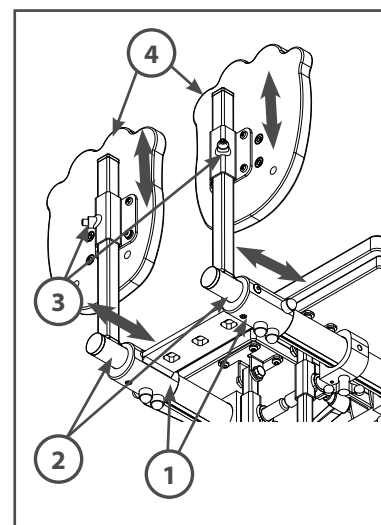
**⚠ CAUTION!** Beware of the risk of pinching and crushing!

**For height adjustment:**

- Loosen the grub screw [1] anticlockwise.
- Adjust the height of the foot brackets [2].
- Tighten the grub screw [1] clockwise again..

**⚠ DANGER!** Tighten all wing screws [1] again after each adjustment!

**⚠ DANGER!** The maximum adjustment has been reached when the red ring on the foot angle is visible..



**For depth adjustment:**

- Loosen the grub screw [3] anticlockwise.
- Adjust the depth of the base plate [4].
- Tighten the grub screw [3] clockwise again..

**⚠ DANGER!** Tighten all screws [3] again after making any adjustments!

## 6.4 Equinus foot correction (optional)

The equinus foot correction (optional for your device) is a 3-level adjustment that allows you to adjust the foot position.

**⚠ DANGER!** Only carry out all adjustments without patients or with the stretcher board in a horizontal position!

**For 3-level adjustment:**

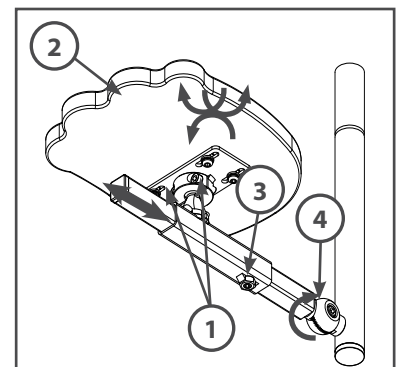
- Loosen screws [1] anticlockwise.
- Adjust footplate [2] to the user's foot.
- Loosen screws [4] if a greater incline of the footplate [2] is required.
- Tighten screws [1] and [4] clockwise again..

**For depth adjustment:**

- Loosen the grub screw [3] anticlockwise.
- Adjust the depth of the base plate [2].
- Tighten the grub screw [3] clockwise again..

**⚠ DANGER!** Tighten all screws (1, 3, 4) again after each adjustment!

**⚠ WARNING!** If available, the patient should only stand in the device with appropriate footwear.



## 6.5 leg rests

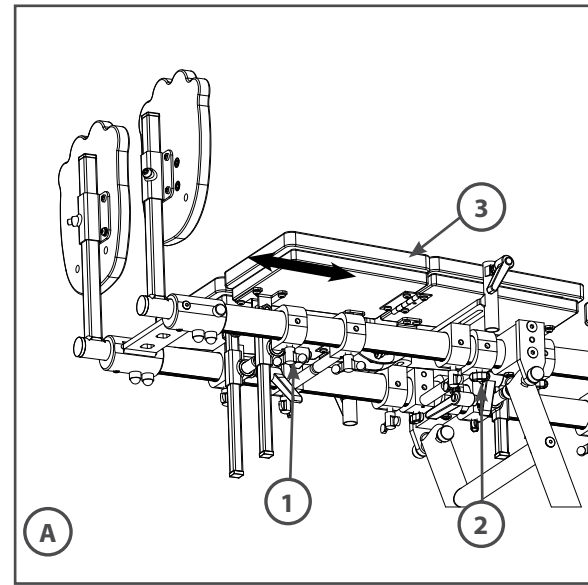
The leg rests can be adjusted in height and overall angle.

**⚠ DANGER!** Only make adjustments when there are no patients on the table or when the table is in a horizontal position!

**⚠ CAUTION!** Beware of the risk of pinching and crushing!

**i** You can order additional leg rest elements from your dealer or service provider as a device modification.

# 6. Operation/settings of the device and accessories



## For height adjustment (Figure A):

- Loosen wing screws [1] and [2] counterclockwise.
- Adjust the leg rest [3] to the desired height.
- Tighten wing screw [1] and mini wings [2] again clockwise.

## For total angle adjustment (Figure B):

- Loosen the clamping levers [4] anticlockwise.
- Adjust the leg rest to the desired overall angle using the tubes [6].
- Tighten the clamping levers [4] again clockwise.

**i** You can also loosen wing screws [1] and [2] to change the width between the bolts if the tubes [5] collide with the frame.

## For knee angle adjustment (optional):

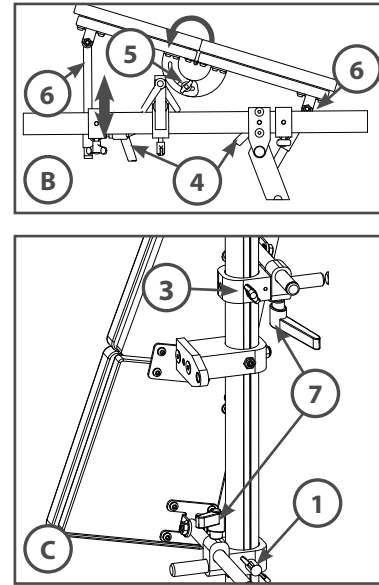
- Loosen the wing screws [5] anticlockwise.
- Loosen the clamping levers [4] anticlockwise.
- Adjust the leg rest to the desired overall angle using the tubes [6].
- Tighten the clamping levers [4] and wing screws [5] again clockwise.

The abduction adjustment (optional on your device): allows the leg supports to be adjusted to the lateral angle of the legs.

## For abduction adjustment (optional) (Figure C):

- Loosen the clamping levers [7] by turning them anticlockwise until all hinges can move freely. Adjust to the desired angle.
- Tighten the clamping levers [7] again by turning them clockwise so that all hinges are secure..

You can also loosen wing screws [1] and [2] to change the width between the bolts if the tubes [6] collide with the frame.



**!** **DANGER!** Tighten all clamping elements again after each adjustment Split leg supports (optional)

The height and overall angle of the split leg rests can be adjusted independently of each other. There are no connecting elements between the two wooden panels.

**!** **DANGER!** Only carry out all adjustments with the reclining board in a horizontal position!

**!** **CAUTION!** Beware of the risk of pinching and crushing!

## For height adjustment (Figure A):

- Loosen the wing screws [1] anticlockwise.
- Adjust the leg rest [2] to the desired height.
- Tighten the wing screw [1] clockwise again.
- Repeat the procedure for the leg rest [3].

## For angle adjustment and knee angle adjustment (Figure B):

- Loosen the clamping levers [4] in an anticlockwise direction.
- Adjust the leg rest to the desired overall angle using the tubes [5].
- Tighten the clamping levers [4] again in a clockwise direction.

If necessary, repeat the procedure for the leg rest [2].

**i** You can also loosen the wing screw [1] to change the width between the bolts if the tubes [5] collide with the frame.

## Split leg rests with abduction adjustment (optional)

Additionally enable adjustment of the leg supports to the lateral angles of the legs.

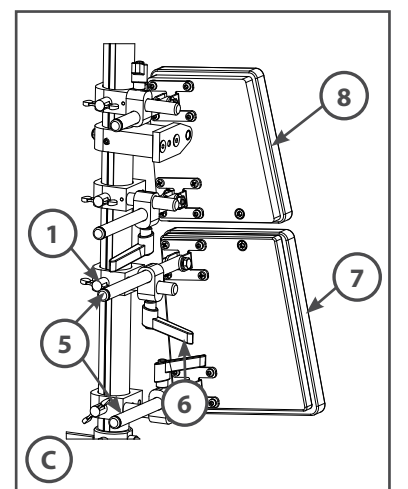
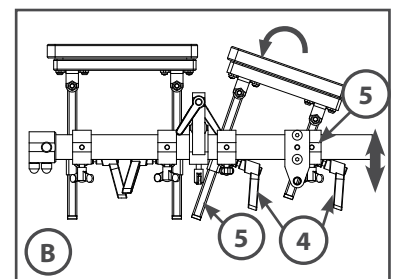
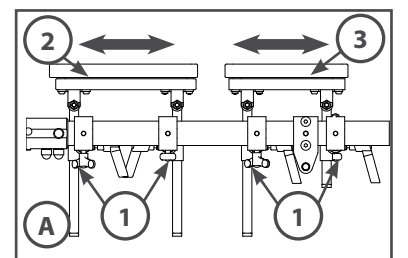
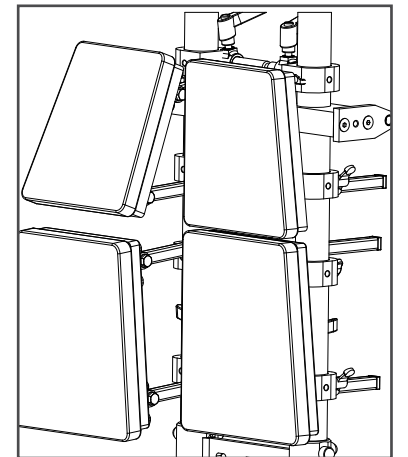
## For abduction adjustment (optional) (Figure C):

- Loosen the clamping levers [6] by turning them anticlockwise until all hinges can move freely.
- Adjust the leg rest [7] to the desired angle.
- Tighten the clamping levers [6] again by turning them clockwise so that all hinges are secure.

Repeat the procedure for the leg rest [8].

**i** You can also loosen the wing screw [1] to change the width between the bolts if the tubes [5] collide with the frame.

**!** **DANGER!** Tighten all clamping elements again after each adjustment!





# 6. Operation/settings of the device and accessories

## Full-length leg rests Lasse Size 5

**⚠ DANGER! Knee supports are attached to continuous leg rests! Only make adjustments when the bed board is in a horizontal position!**

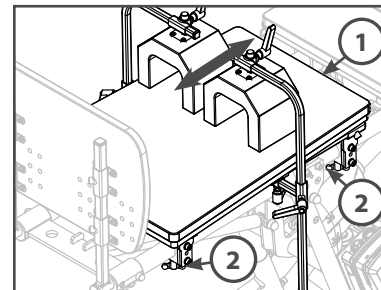
**ⓘ CAUTION! Beware of the risk of pinching and crushing!**

The continuous leg rests [1] can only be adjusted in height.

### For height adjustment (Figure A):

- Loosen the wing screws [2] on both sides by turning them anticlockwise.
- Adjust the leg rest [1] to the desired height.
- Tighten the wing screw [1] clockwise again..

**⚠ DANGER! Tighten all clamping elements again after each adjustment.**



## 6.6 Anti-tip device Lasse Size 5

The anti-tip device on the Lasse Size 5 secures the frame against tip-ping.

**⚠ DANGER! Tighten all clamping elements again after each adjustment!**

**⚠ DANGER! The anti-tip device on Lasse Size 5 must be activated during every use!**

### To activate (Figure A)

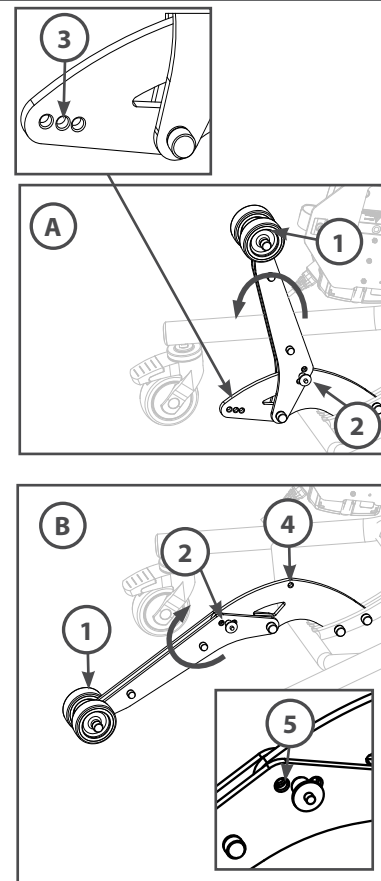
Release the locking bolt [2] and pull it out. Lower the anti-tip device [1] until one of the holes [3] is above the original hole. Insert the locking bolt [2] until it is fully released (Figure B).

### For floor height adjustment (Figure B)

Release the locking pin [2] and pull it out. Lift the anti-tip device [1] and insert it into the adjacent holes [5] until it is completely released.

### To deactivate (Figure B)

Release the locking pin [2] and pull it out. Lift the anti-tip device until one of the holes [5] is aligned with hole [4]. Insert the locking pin [2] until it is fully released..



## 6.7 Backrest

The backrest can be adjusted in height to suit the user's upper body size.

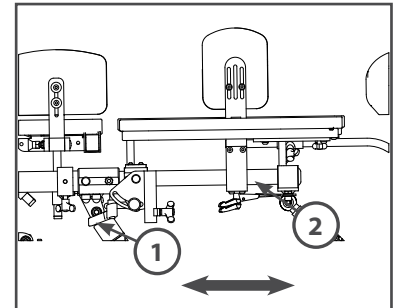
**⚠ DANGER! Only carry out all adjustments without patients or with the stretcher board in a horizontal position!**

**⚠ CAUTION! Be aware of the risk of pinching and crushing!**

### For height adjustment:

- Loosen the clamping levers [1] by turning them anticlockwise.
- Adjust the backrest [2] to the desired height.
- Tighten the clamping levers [1] again by turning them clockwise.

**⚠ DANGER! Tighten all clamping elements again after each adjustment!**



## 6.8 Pelvic pads and pelvic plate

The pelvic pads or pelvic plate (optional on your device) guide the position of the pelvic area. They can be adjusted in angle, depth, width and height.

**⚠ DANGER! Only adjust settings when the patient is not on the table or when the table is in a horizontal position!**

**⚠ WARNING! Beware of the risk of being pinched or crushed!**

**⚠ DANGER! Tighten all clamping elements again after each adjustment!**

### For height adjustment:

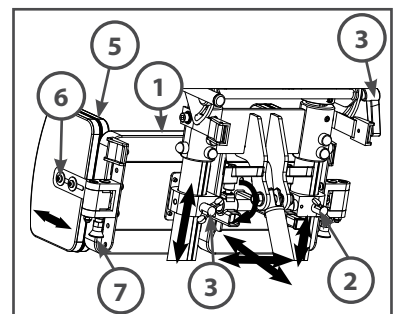
- Open the wing screws [2] anticlockwise.
- Adjust the height of the pelvic plate/pelvic pads [1].
- Tighten the wing screws [2] again clockwise.

### For angle and depth adjustment:

- Open the clamping levers [3] counterclockwise.
- Set the desired height and angle of the pelvic plate/pelvic pads [1].
- Tighten the clamping levers [3] again clockwise.

### For width adjustment:

- Open the wing screws [4] / clamping levers [3] counterclockwise.
- Set the desired basin width of the side pads [5].
- Tighten the clamping levers [3] / wing screws [4] again clockwise.



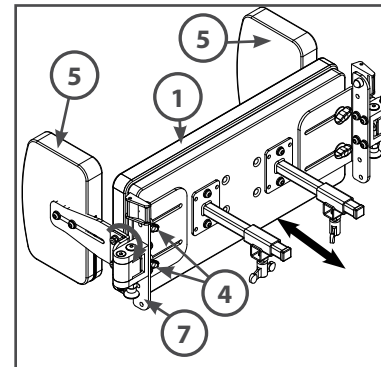
# 6. Operation/settings of the device and accessories

## For depth adjustment of the side pads:

- Open the screws [6] anticlockwise.
- Adjust the side pads [5] to the desired depth.
- Tighten the screws [6] again clockwise..

## For swivelling (only for swivel-mounted side guide pads)

- Pull the locking pin [7] downwards and hold it in place.
- Swivel the side guide pad outwards.
- If necessary, swivel the side guide pad back until the locking pin [7] automatically engages..



## 6.9 Knee pads

The knee pads control the position of the knees. Height, angle, width and inclination can be individually adjusted.

- ⚠ DANGER! Only make adjustments when the patient is not on the board or when the board is in a horizontal position! The patient must be securely fastened in an inclined position!**
- ⚠ DANGER! Use of the device without firmly adjusted knee pads is not permitted!**
- ⚠ CAUTION! Beware of the risk of pinching and crushing!**
- ⚠ CAUTION! The maximum adjustment is reached when the ends of the adjustment tubes are flush with the guides!**
- i The settings apply to both standard and anatomical knee pads.**

Follow the steps below to adjust the position of the knee pad holder [7].

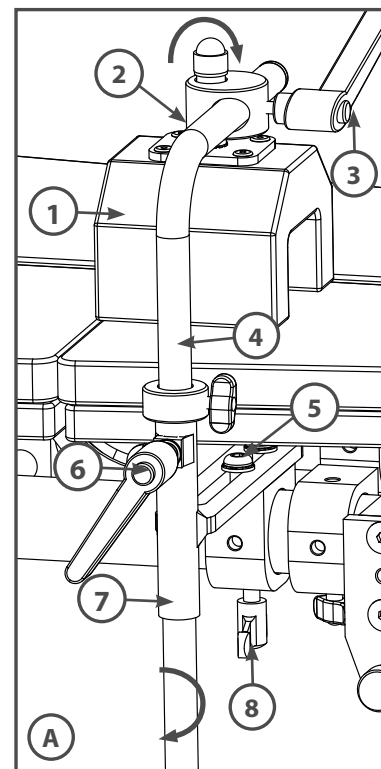
### For height adjustment:

- Loosen the wing screw [8] or clamping lever [9]\* anticlockwise.
- Set the desired height of the knee pad holder [7].
- Tighten the wing screw [8] or clamping lever [9]\* clockwise again.

### For width adjustment :

- Loosen the screw [5] or clamping lever [9]\* counterclockwise.
- Set the desired width of the knee pad holder [7].
- Tighten the screws [5] or clamping lever [9]\* clockwise again.

\*See image [B], For configurations with continuous leg rests Tighten clamping lever [3] clockwise again.



Follow the steps below to adjust the position of the knee pads [1].

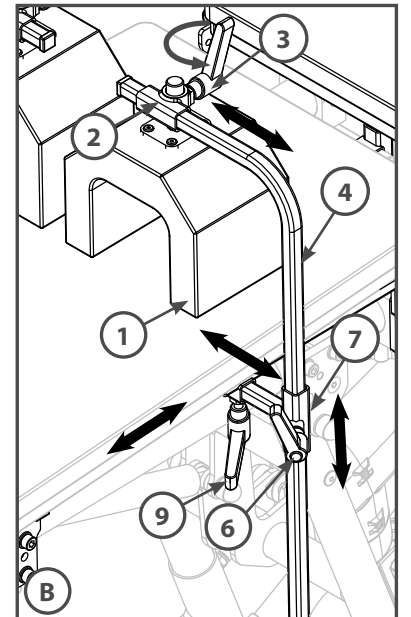
### For depth adjustment:

- Loosen the clamping lever [6] anticlockwise.
- Set the desired position of the knee pads [1] on the tube [4].
- Tighten the clamping lever [6] again clockwise.

### For angle/width adjustment:

- Loosen the clamping lever [3] by turning it anticlockwise.
- Adjust the knee pad holder [2] and knee pad [1] to the desired position on the knee.
- Tighten the clamping lever [3] again by turning it clockwise.

**⚠ DANGER! Tighten all clamping elements again after each adjustment.!**



## 6.10 Lateral support pads (optional)

The lateral support pads guide the position of the chest.

- ⚠ WARNING Beware of the risk of pinching and crushing!**
- ⚠ WARNING Perform all adjustments with the reclining board in a horizontal position!**

### For swivelling (only for swivelling side guide pads)

- Pull the locking bolt [1] downwards and hold it in place.
- Swivel the side guide pad outwards.
- If necessary, swivel the side guide pad back until the locking bolt [1] engages automatically.

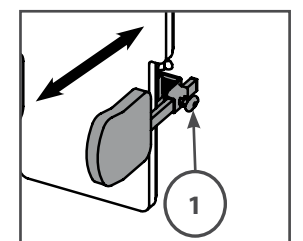
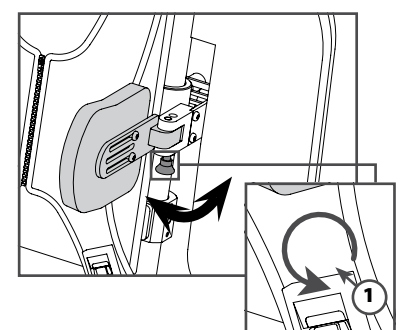
### For removal/attachment and depth adjustment (only for the removable side guide pads):

- Loosen the wing screw [1] anticlockwise.
- Remove/attach the side guide pad or place it in the desired position.
- Tighten the wing screw [1] again clockwise.

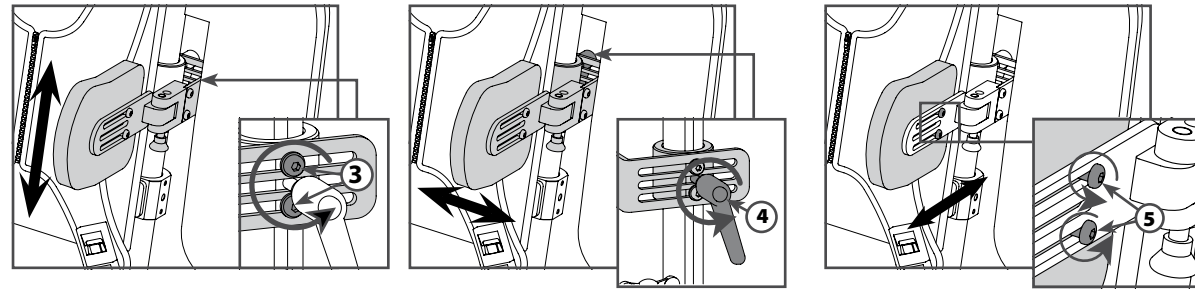
### For width adjustment (all variants):

- Loosen both screws [3] anticlockwise.
- Adjust the width of the side guide pad.
- Tighten both screws [3] clockwise again.

**i Before adjusting the width, the armrest settings must also be adjusted.**



# 6. Operation/settings of the device and accessories



## For height adjustment (all variants):

- Loosen clamping levers [4] counterclockwise.
- Remove/attach side guide pad.
- Tighten clamping levers [4] clockwise again..

## For depth adjustment (only for the swivelling side guide pads)

- Loosen both screws [5] anticlockwise.
- Adjust the width of the side guide pad.
- Tighten both screws [5] clockwise again.

**! DANGER! Tighten all clamping elements again after each adjustment!**

## 6.11 Armrests (optional)

- ! WARNING Beware of the risk of pinching and crushing!**
- ! WARNING Perform all adjustments with the lying board in a horizontal position!**

The armrests support the arms when lying down and standing up.

## For width adjustment without strap fastening (Figure A):

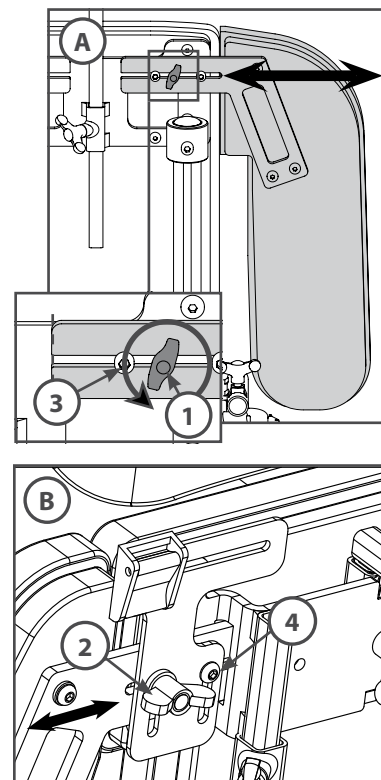
- Loosen the wing screw [1] anticlockwise.
- Adjust the width of the side guide pad.
- Tighten the wing screw [1] again clockwise..

## For width adjustment with strap fastening (Figure B):

- Loosen the wing screw [2] and screws [4] anticlockwise.
- Adjust the width of the side guide pad.
- Tighten the wing screw [2] and screws [2] again clockwise.

**! WARNING The maximum adjustment is reached when the washer of screw [2] or [3] is flush with the edge of the sheet metal.**

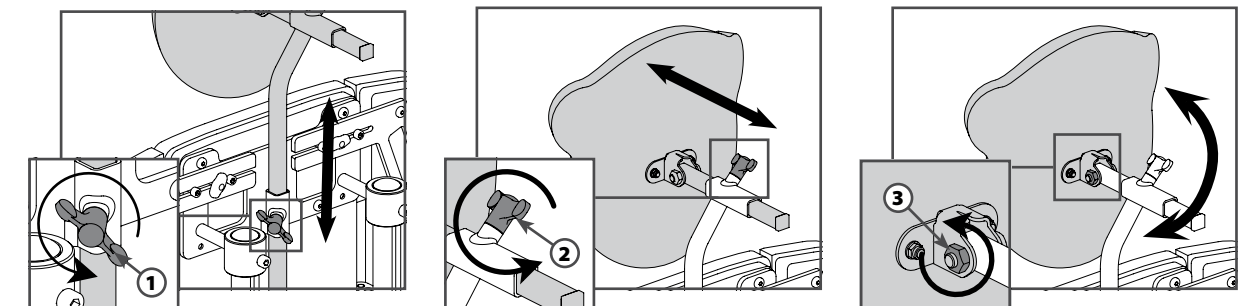
**! DANGER! Tighten all clamping elements again after each adjustment!**



## 6.12 Headrest

**! DANGER Always check that the patient's head is in a safe position. The patient must be able to breathe freely!**

The headrest can be adjusted in height, depth and angle. In addition, the side wings of the "adjustable headrest" can be adjusted in width; it also has 3-level adjustability.



**! WARNING Do not hang any objects on the headrest! See chapter "Minimum distance around the patient".**

**! WARNING Beware of crushing and pinching hazards!**

## For height adjustment:

- Loosen the wing screw [1] anticlockwise.
- Adjust the headrest to the desired height.
- Tighten the wing screw [1] again clockwise.

## For depth adjustment:

- Loosen the wing screw [2] anticlockwise.
- Adjust the depth of the headrest.
- Tighten the wing screw [2] clockwise again..

## For tilt adjustment:

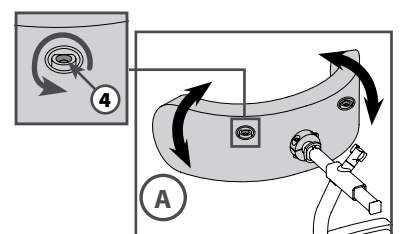
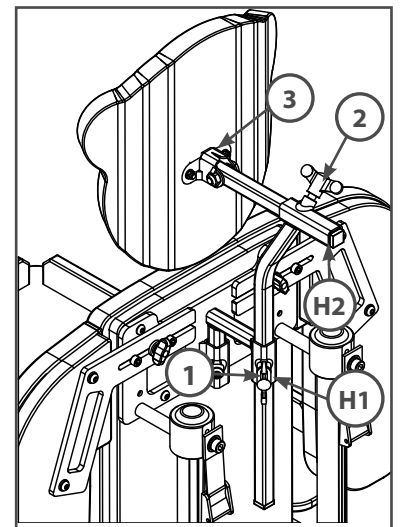
- Loosen screws [3] anticlockwise.
- Adjust the angle of the headrest by turning it vertically.
- Tighten screws [3] clockwise again.

**! WARNING The maximum adjustment is reached when the pipe end is flush with the guide (H1 or H2).**

**! WARNING The maximum adjustment is reached when the end of the pipe protrudes 1 cm from the bracket.**

## For width adjustment (only for adjustable headrest, image A):

- Open the zip on the headrest cover.
- Loosen the screws [4] by turning them anticlockwise.
- Adjust the width of the headrest cheeks individually.
- Tighten the screws [4] again by turning them clockwise.
- Close the zip on the headrest cover.

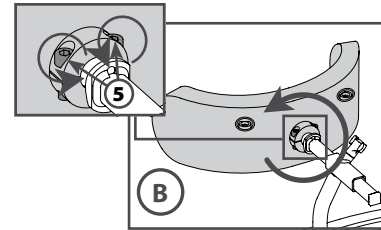




# 6. Operation/settings of the device and accessories

## For 3-level adjustment (only for adjustable headrest, image B):

- Loosen the screws [5] anticlockwise.
- Adjust the headrest to the desired position.
- Tighten the screws [5] clockwise again.



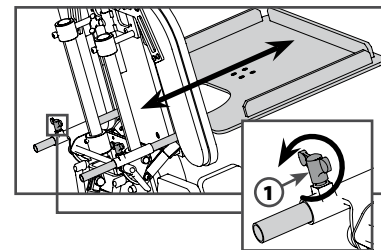
## 6.13 Therapy table

The therapy table can be continuously adjusted in depth and angle to suit the user's position.

- WARNING** The maximum load on the therapy table is 5 kg!
- IMPORTANT** The height depends on the backrest. As soon as this is adjusted, the therapy table is also adjusted.

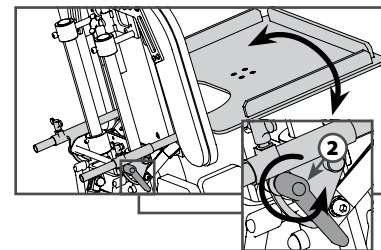
### For attaching/removing:

- Loosen the wing screw [1] anticlockwise.
- To attach: First insert the longer end of the tube, then the shorter end of the tube into the holder.
- To remove: Pull the table completely out of the holder.
- Tighten the wing screw [1] again clockwise.



### For depth adjustment

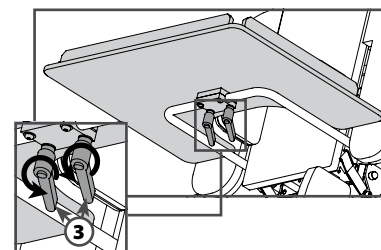
- Loosen the wing screw [1] anticlockwise.
- Move the table to the desired depth.
- Tighten the wing screw [1] clockwise again.



- WARNING** The maximum adjustment is reached when the end of the pipe is flush with the guide..

### For adjusting the position of the entire table:

- Loosen the clamping lever [2] anticlockwise.
- Adjust the therapy table to the desired position.
- Tighten the clamping lever [2] again by turning it clockwise.



### For adjusting the position of the tabletop

- Loosen the clamping levers [3] in an anticlockwise direction.
- Adjust the therapy table to the desired position.
- Tighten the clamping levers [3] again in a clockwise direction.

- DANGER!** Tighten all clamping elements again after each adjustment!

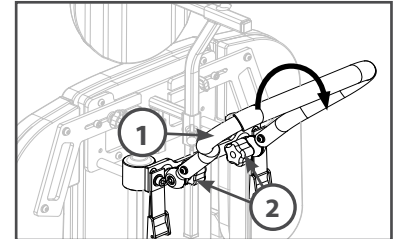
## 6.14 Push bar (optional)

The angle of the push bar is adjustable.

- WARNING** Beware of the risk of being pinched or crushed!
- DANGER!** Tighten all clamping elements again after each adjustment!

### For angle adjustment:

- Loosen both star handles [2] anticlockwise until all tooth segments can move freely.
- Move the sliding bow [1] to the desired angle.
- Tighten both star handles [2] clockwise again so that all tooth segments engage with each other..

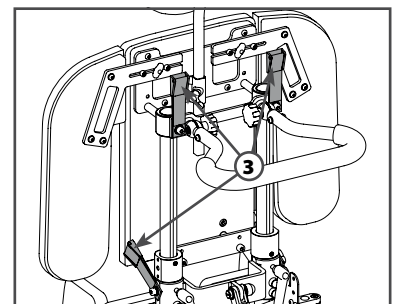
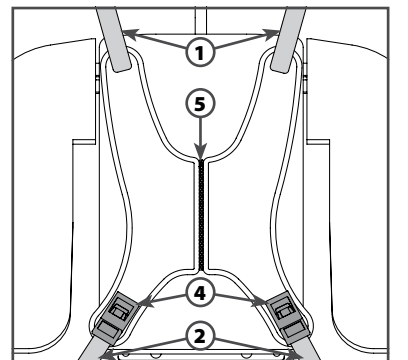


## 6.15 Vest

- DANGER!** All harnesses must be put on correctly and fastened securely!
- DANGER!** The straps must not be twisted!
- DANGER!** Check the harnesses at regular intervals!
- DANGER!** The user must be adequately secured/protected against falling out without compromising their comfort. Do not correct any incorrect body positions by applying excessive pressure. Use of the device without upper body safety elements (e.g. vests) is not permitted!
- DANGER!** Only carry out all adjustments without the patient or with the stretcher in a horizontal position! When in an inclined position, the patient must be securely positioned and secured!
- DANGER!** Always check that the patient's head is in a safe position. The patient must be able to breathe freely!

### For attaching/removing:

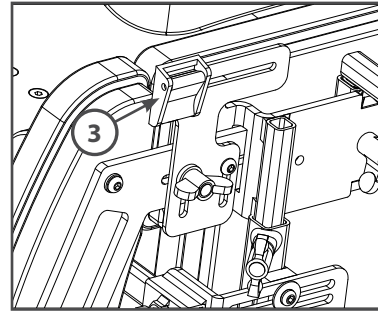
- Open the buckles [3].
- To attach: Thread the shoulder straps [1] and [2] through the buckles [3].
- To remove: Pull the shoulder straps [1] and [2] out of the buckles [3].
- Close the buckles [3].



# 6. Operation/settings of the device and accessories

The belt [1] and [2] can be roughly adjusted by adjusting the straps using the flip buckles [3]. Fine adjustments can be made using the plug buckles [4]. Once adjusted, the chest shoulder belt should be positioned in the middle of the body. It should fit comfortably but snugly.

It is opened and closed by operating the zip [5].



## 6.16 Shoulder strap guides

**! DANGER! Only carry out all adjustments when the patient is not present or when the stretcher board is in a horizontal position! When in an inclined position, the patient must always be securely positioned and restrained!**

### For attaching the shoulder strap guides:

- Turn the lens head screws [1] and the wing screws [2] anticlockwise to loosen them.
- Position the slotted holes on the strap bracket on the armrest holder [3].
- Tighten the pan head screws [1] and wing screws [2] clockwise.

Repeat all steps in reverse order to remove the guide.

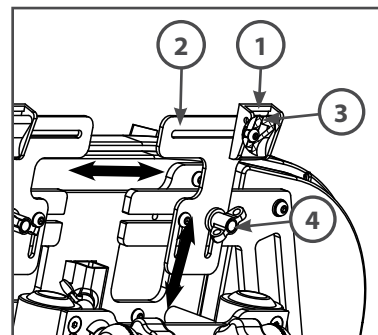
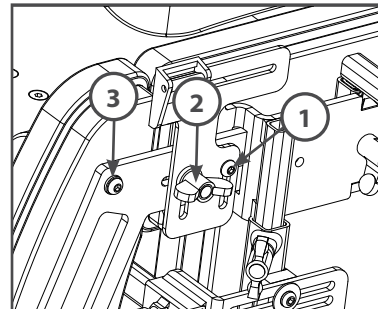
### Adjusting the height of the strap:

- Loosen the wing screw [4] and turn it counterclockwise (approx. 1-2 turns).
- Position the strap tab [2] at the desired height.
- Tighten the wing screw [4] clockwise..

### Adjusting the width of the strap:

- Open the folding buckle [1] upwards and loosen the pan head screw [3] or nut from the other side by turning it anticlockwise (approx. 1-2 turns).
- Now position the folding buckle [1] in the desired position.
- Tighten the pan head screw [3] clockwise and close the folding buckle [1].

**! DANGER! The wing screws and pan head screws must be tightened securely before use. Otherwise, there is an increased risk of injury!**



## 6.17 Pelvis.Location (optional)

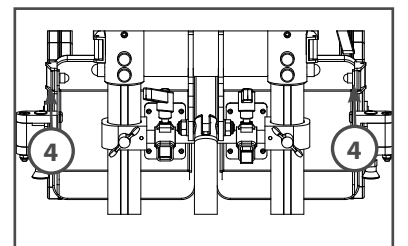
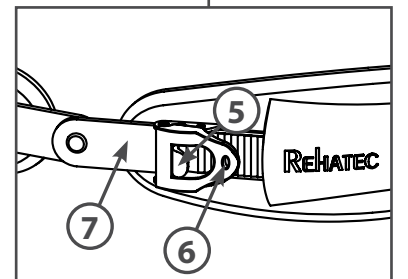
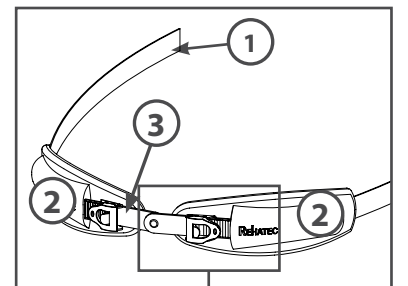
- ! DANGER! All straps must be applied and securely fastened in accordance with requirements!**
- ! DANGER! Only carry out adjustments when there is no patient on the board or when the board is in a horizontal position! The patient must be securely fastened in an inclined position!**
- ! DANGER! Ensure that the PELVI.LOC is functioning correctly after cleaning!**
- ! DANGER! Ensure that there are no objects under the padding! This will prevent painful pressure points.**

### Assembly / Presetting the belt length

Fitting the Pelvi.Loc To attach the Pelvi.Loc, you must insert the respective strap [1] into the folding buckles [4] on the pelvic pads or pelvic plate and then secure it accordingly. The strap is adjusted once by adjusting the straps [1] via the folding buckles [4]. Fine adjustments can be made using the ratchet fastener [6].

### Application

1. To use PELVI.LOC®, place the pads [2] in the pelvic area/hip crease.
2. Then thread the toothed strap [7] through the respective ratchet (5). To do this, operate the corresponding ratchet buckle [6]. It is also important that the joint of the toothed strap [3] is located in the middle of the body.
3. Then tighten the toothed strap [6] so that there is still enough space for a flat hand between the thigh and the padding.
4. Ensure that the snaps [5] engage with the teeth of the toothed strap!
5. Perform a tension test! To open the PELVI.LOC®, press the snap [5] and pull out the toothed strap [7].



# 6. Operation/settings of the device and accessories

## 6.18 Footrests

**⚠ DANGER!** Only adjust or open the foot straps when the patient is not on the board or when the board is in a horizontal position! When the board is in an inclined position, the patient must always be securely positioned and restrained!

The footrests [1] are used to position the feet firmly on the footboard when necessary and secure them with foot straps [2] using Velcro fasteners (Figure A).

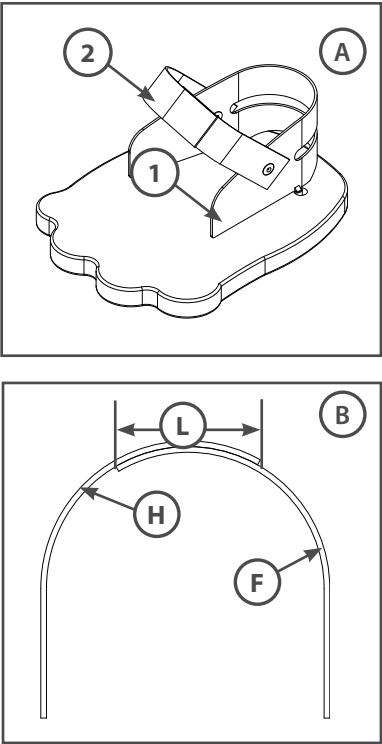
To open the Velcro fastener, pull the edge of the upper strap until it opens while holding the lower strap in place.

To close the Velcro fastener (Figure B), first place and hold the strap with the upper hooks [H] in the desired position, then place the other strap with the Velcro [F] on top with a little tension and press it lightly along the entire overlap length [L].

**⚠ WARNING** To ensure that the Velcro fastener (Figure B) is securely attached, the overlap length [L] of the hooks [H] and loops [F] must be at least half the total hook length!

**⚠ WARNING** If available, the patient should only stand in the device with appropriate footwear.

**WARNING** Due to wear and tear over time or possible contamination, the Velcro fastener loses its adhesive properties. If the straps are dirty or worn, both straps must be replaced immediately with new ones! Contact your dealer for a replacement.







# 7. Cleaning and disinfection

The user is responsible for regular maintenance and care.  
In the event of complaints or problems, please contact your service provider/dealer!

## 7.1 Safety instructions for cleaning and disinfection

- ⚠ DANGER** Neglected, inadequate or incorrectly performed (using incorrect means or procedures) cleaning or disinfection can pose a serious risk to the operator and patients!
- ⚠ DANGER** Maintenance, cleaning, repair and adjustment work may only be carried out on the device when the patient is not inside it!
- ⚠ DANGER** The mains plug must be disconnected before any technical work or cleaning processes are carried out on the electrical device!
- ⚠ DANGER** When cleaning and disinfecting, completely remove any residues of the agents used to avoid poisoning, irritation and allergic reactions!
- ⚠ CAUTION** Do not use abrasive agents or cloths to clean the device!
- ⚠ WARNING** Observe the care and safety instructions for using the respective cleaning / disinfecting agents!
- ⚠ WARNING** Heavily soiled, cracked, perforated and contaminated foam parts that are bonded to carrier elements must be replaced. There is no cleaning option for these parts!
- ⚠ CAUTION** Do not use cleaning agents containing solvents if these could affect the structure and consistency of wood, wooden surfaces and lacquer coatings, foam/plastics, plastic surfaces (benzene, toluene, acetone, etc.) or metal lacquers and coatings.
- ⚠ WARNING** The device must not be used if it comes into contact with moisture. It must then be dried immediately!
- ⚠ CAUTION** The product and its accessories are not intended for machine cleaning.
- ⚠ CAUTION** The product and its accessories are not intended for cleaning by spraying and washing with pressure or steam cleaners! High-pressure cleaners must not be used!
- ⚠ CAUTION** No germicidal or other irradiation may be used for disinfection if the irradiation has a direct effect on wood, plastics and metals and their surfaces and coatings.
- ⚠ CAUTION** The cleaning agents and disinfectants may only be diluted in accordance with the instructions of the respective manufacturers!
- ⚠ CAUTION** All soft and textile components must be removed before basic cleaning!
- ⚠ CAUTION** After cleaning or disinfection, all soft and textile parts must be completely dried before being reattached to the device!
- ⚠ CAUTION** After cleaning or disinfection, all soft and textile parts must be completely dry before being reattached to the device!
- ⚠ CAUTION** The owner of a medical device is solely responsible for cleaning it. Failure to clean the device may void the device warranty and compromise the clinical condition and safety of users and/or caregivers.

# 7. Cleaning and disinfection

- **DANGER** Risk of electric shock! Electrical components must not be immersed in water or splashed with water!
- **DANGER** Follow these instructions and the dosage specified by the cleaning agent manufacturer.
- **CAUTION** Connection cables must remain plugged in during cleaning to prevent water from entering. All free sockets must be fitted with blanking plugs!
- **IMPORTANT** Some liquids used in healthcare can cause permanent stains! Test the cleaning agent on a small/invisible area of the surface.

## 7.2 General cleaning and disinfection process

Remove the following components and clean them separately or, if this is not possible, protect them from cleaning agents: accessories, cushions/upholstered elements, wooden parts, power supply units (drive, battery and hand control).

To prevent the piston rod from becoming degreased, the drive should be retracted to its smallest stroke and unloaded before cleaning.

See Table [A] for the frequency of cleaning and disinfection for various components of the device.

 Important information on reinsertion can be found in Chapter 9, "Reinsertion and patient change".

Table A: Frequency of use for cleaning and disinfection

Device components	Daily	Weekly	Monthly	Annually	Patient change	Complete cleaning	Reuse
Control elements: clamping elements, release/brake levers, push handle, etc.	o	o	o	+	o	+	+
Armrests, footrests, tables, wheel guards or similar fixed contact surfaces	o	o	+	+	+	+	+
Handheld switch (remote control)	o	o	o	+	o	+	+
Cables, electrical control system	–	–	+	+	–	+	+
Drives (e.g. pump/gas pressure spring/motor)	–	–	o	+	–	+	+
The transport role	–	–	o	+	o	+	+
Textile covers / belts / textile elements	o	o	o	+	+	+	+
Covers / strapping made of imitation leather	o	o	o	+	+	+	+
Upholstery *	o	o	o	o	o	x	x
Frames, brackets structural elements	o	o	o	+	o	+	+

\* Cushions glued to metal parts cannot be cleaned and disinfected safely and must be completely replaced with new assemblies as required.

+ = necessary; o = recommended/as required; – = not necessary; x = replacement/disposal only

## 7.3 Thorough cleaning before first use / storage

When unpacking the device, visually inspect all visible surfaces for dirt, damage or foreign substances. Each device must be completely cleaned and disinfected (except for foam pads) before first use.

It is recommended that the device and accessories undergo thorough cleaning at least every 2-3 weeks or as required.

For detailed information on the frequency of use, see Table [A].

When selecting the cleaning agent and its dilution, always consult the manufacturer of the cleaning agent in accordance with the material table [B] below.

Before storage, the device must be cleaned and disinfected completely (with all accessories), as it would be for reuse.

Before storage, the device must be completely cleaned (with all accessories) and disinfected, as it would be for reuse. When the device is reused, old upholstery and padded parts must be replaced.

## 7.4 Cleaning during normal use (including domestic use)

It is recommended that all parts of the device that come into contact with the patient or operator, as well as all handles and accessories, be cleaned daily.

Use a soft cloth, warm water, and a mild cleaning agent to remove dirt and clean the product. Any spilled liquids should be wiped away as soon as possible.

Never use abrasive powders, steel wool, or other materials and cleaning agents that could damage the surface of the device. Do not use strong acids or alkalis; the optimal pH value for cleaning agents is between 6 and 8.

Padded components should be washed or replaced as needed.

Removable foam cushions (without metal parts) and fabric covers (not made of synthetic leather) can be machine washed at a maximum temperature of 40 °C.

Foam padding should be cleaned in a basin or sink using warm water and a mild detergent. Allow the parts to soak for approximately one hour, then rinse thoroughly with clean water and hang to dry.

The device may only be used again when all components are completely dry and clean.

## 7.5 Cleaning and disinfection between patients

Before the device is used for therapy with a new patient, it must be carefully prepared.

- All hard surfaces that the patient comes into contact with must be cleaned and treated with a disinfectant.
- All covers (made of imitation leather) must be cleaned and treated with a disinfectant.



# 7. Cleaning and disinfection

## 7.6 Cleaning and disinfection for reuse

- Before the device is used again, it should be carefully prepared.:
- All hard surfaces that come into contact with the patient must be cleaned and treated with a disinfectant.
  - All covers/straps must be cleaned and treated with a disinfectant.
  - If soiled, all covers, foam elements and existing straps must be cleaned or replaced!
  - All PU foam padding cannot be disinfected or washed and must therefore always be replaced with new padding before reuse.

## 7.7 Selection of cleaning agents or disinfectants

When selecting the cleaning agent/disinfectant and its dilution, always seek advice from the manufacturer of the cleaning agent in accordance with the material table below [B]..

**i** **IMPORTANT** Some liquids used in healthcare can cause permanent stains!  
Test the cleaning agent first on a small/invisible area of the surface.

Table B: List of materials used

part of the device	Material	Material	abbreviation
Rollers	ABS, S-Z, PA 66, TPE	S-P*	Steel, powder-coated**
Metal components of the device	S -P/-C/-Z, ALU-E	S-C	Chrome-plated steel
plug-in buckle	POM / PA 66	S-Z	Galvanized steel
sliding elements	PTFE / POM	S-N	Nickel-plated steel
Screws, pins, nuts	S -Z/-N, ES	ALU-E	Anodised aluminium
Wooden parts fine veneer / solid	PU coating	ES	Rustproof iron (stainless steel)
Faux leather covers	PVC -Compound, BW/ P-Gestrick, PU	POM	Polyoxymethylene
Textile covers	P, PA	PTFE	Polytetrafluoroethylene
upholstery parts	polyurethane foam	PU	polyurethane
belting	P, PA	PA	Polyamide
		P	Polyester
		PVC	polyvinyl chloride compound
		TPE	Thermoplastic elastomers
		BW	cotton

\*All powder coating materials are epoxy resin/polyester-based.

For example, you can consider products from the following manufacturers of cleaning agents/disinfectants: Dr. Schumacher GmbH, Bode Chemie GmbH, Schülke & Mayr GmbH, Ecolab GmbH, B. Braun Melsungen AG, Dürr Dental AG and Lysoform Dr. Hans Rosemann GmbH.

## 7.8 Cleaning/disinfection of solid surfaces

Only cleaning agents and CE-certified disinfectants that are intended for cleaning medical devices and have an optimal pH value of 6.5–7.5 may be used..

- Cleaning of:
- Coated and painted metal surfaces
  - Coated and painted wood surfaces
  - Hard plastic surfaces of star handles, wing screws, clamping levers

This is best done with a soft, dry towel, a slightly damp microfibre cloth and lukewarm water (with or without cleaning agent).

- Disinfection of:
- Coated and painted metal surfaces
  - Coated and painted wood surfaces
  - Hard plastic surfaces of star handles, wing screws, clamping levers

This is best done with soft cleaning cloths made of paper and microfibre. The disinfectant must not be sprayed onto the product. To do this, spray a soft cloth and apply the disinfectant to the surfaces.

The device and its accessories must not be sprayed with liquid agents to prevent liquids from penetrating. To avoid skin irritation or allergic reactions, ensure that no residues of cleaning agents or disinfectants remain on the surfaces.

Then dry the parts thoroughly..

## 7.9 Cleaning/disinfection of covers

**Faux leather covers** must be disinfected with a CE-certified surface disinfectant. The disinfectant must then be wiped off completely with a damp cloth and dried thoroughly with a microfibre cloth. Alternatively, disinfection can be carried out in a cold fogging system!

Any stains on faux leather covers (Skai covers) should be removed as soon as possible with lukewarm water and a slightly damp cloth, preferably microfibre or cotton. For heavier soiling, warm, mild soapy water and a soft hand brush or soft sponge can be used. The cleaning process may need to be repeated several times. Then wipe away any remaining cleaning agent with a damp cloth.

Textile covers (not imitation leather) and straps can be washed in a washing machine at up to 40°C using a conventional CE-certified disinfectant detergent. Only disinfectants for textiles that are specifically intended for medical devices (e.g. RHEOSOL-Deso) and meet the following requirements are permitted:

- Proven effective at temperatures above 40°C,
  - CE-certified medical device,
  - RKI or VAH listed (recommended),
  - approved in the EU (recommended).
- Chemical or dry cleaning of fabrics is not permitted, nor is bleaching of fabrics.






# 7. Cleaning and disinfection

Tumble drying is only permitted at low temperatures (gentle cycle). Dry the items thoroughly afterwards.  
Only iron fabrics with a lukewarm iron.











To avoid skin irritation or allergic reactions, ensure that no residues of cleaning agents or disinfectants remain on the fabrics.

Dry the items thoroughly afterwards.


Table C: Symbols for materials

Symbol	significance
	Wash cycle 40°C, easy care or delicate cycle
	Bleaching not permitted
	Ironing with a lukewarm iron
	Dry in the tumble dryer at a low temperature (gentle cycle)
	Cleaning with perchloroethylene

# 8. Maintenance and Inspection

- **DANGER** Before starting any maintenance work, it is essential that the mains plug is disconnected from the power supply!
- **DANGER** Never use a device that is not in perfect condition!
- **DANGER** If there is excessive wear or if worn product parts are not replaced, the safety of the product may no longer be guaranteed!
- **DANGER** Faults, malfunctions or defects may only be rectified by the manufacturer, operator or service provider!
- **DANGER** Do not make any modifications to the product!
- **WARNING** Only use original spare parts/accessories or those approved by Rehatec® GmbH!
- **IMPORTANT** In the event of complaints or problems, please contact your service provider/operator!
- **WARNING** During all repair and adjustment work, care must be taken to avoid pinching and crushing hazards.hr geachtet werden!
- **CAUTION** During any maintenance or inspection, all instructions in the "Cleaning and Disinfection" section must be followed!
- **IMPORTANT** All electrical components are maintenance-free and designed to last for the lifetime of the device (except for the battery).



## 8.1 Maintenance

- Before each use, please check the following functions:**
- All connecting parts and components required for the supply.
  - The functions of the brakes. Safe braking must always be guaranteed.
  - All visible screw connections are secure and complete.
  - The gas pressure spring works perfectly when adjusting the angle and can fix the reclining board firmly in all positions.
  - All upholstery and accessible surfaces must be checked for tears, scratches and scuff marks. Defective parts must be replaced!
  - All elements of the harness are secure and complete. Defective parts must be replaced.!
- Regular care and maintenance**
- For safety reasons, it is important that all components are undamaged during use. Therefore, check them regularly and have them repaired or replaced if necessary..
- The device must be serviced and maintained at regular intervals by trained specialist personnel.
- The maintenance requirements are based on the checks listed in section "8.3 Inspection schedule"..
- **DANGER** The appliance requires maintenance every 12 months in accordance with the following inspection schedule.



# 8. Maintenance and Inspection


## 8.2 Inspection

-  **IMPORTANT** The inspection plan in section "8.2 Inspection plan" must be used to document the proper condition of the device and to document any abnormalities, malfunctions and defects.!
-  **WARNING** Ensure that every safety check is recorded in the test log. The documentation must be retained until the device is disposed of.

During an inspection, a visual inspection and mechanical function tests must be carried out. If necessary, care and maintenance work must be carried out or repairs commissioned. Missing, damaged or contaminated parts must be replaced.

When ordering spare parts, the serial number, device type and date of manufacture can be provided to obtain advice from the dealer or the manufacturer's sales department.

## 8.3 Inspection schedule

- „Heidelberger Upright and Supine Stander Lasse “ Model with tilt adjustment Size 3G, 3, 4, 5
-  **IMPORTANT** Inspections must be carried out by the operator/service provider and documented on a copy. This documentation is device-specific and serves as proof for reuse, transfer and warranty claims. Please keep it together with the operating instructions.

operator

product

serial number

Scheduled maintenance intervals

12 months

Item	Assembly		Settings & functions		Damage & deformation		Screw connections	
			without defects	with defects	without defects	with defects	without defects	with defects
1	frame	base frame						
		Transport castors and parking brake						
		Angle adjustment via gas springs (only for size 3G)						
		Angle adjustment via electric drive (only for sizes 3 and 4)						
		Angle adjustment via electric drive and gas spring (only for size 5)						
		Plug connections (only for sizes 3, 4, 5)						
		Housings for electrical components (only for sizes 3, 4, 5)						
		fasteners						
		Cable lines / Bowden cables						
		Battery (optional only for sizes 3, 4, 5)						
2	foot area	angle indicator						
		Hand switch (only for sizes 3, 4, 5)						
		footplates						
		footrests						
		foot strap						
3	knee area	Pointed foot corrections						
		Footrest angle adjustable						
		Knee pads						
		Brackets or knee bends of the knee pads						
		Padding and covers for knee pads						
		split leg rests						
		Leg rest brackets						
		Upholstery and covers for the leg rests						
		Angle adjustment, leg guidance						

## 8. Maintenance and Inspection

Item	Assembly		Settings & functions		Damage & deformation		Screw connections	
			without defects	with defects	without defects	with defects	without defects	with defects
4	Pelvic area	Pelvic pad, split						
		- Brackets						
		- Upholstery and covers						
		-Fastening/clamping elements						
		Bowl plate, continuous (only for size 5)						
		- Brackets						
		- Upholstery and covers						
		-Fastening/clamping elements						
		Side support pads						
		- Brackets						
		- Upholstery and covers						
		-Fastening/clamping elements						
		abduction adjustment						
		- Brackets						
		Pelvis.Loc-Pelvic belt						
		- Fastening and closure						
5	Back area	Backrests						
		- Brackets						
		- Upholstery and covers						
		-Fastening/clamping elements						
		Side guide pads						
		- Brackets						
		- Upholstery and covers						
		-Fastening/clamping elements						
		armrests						
		- Brackets						
		- Upholstery and covers						
		-Fastening/clamping elements						
		push bar						
		- Tooth segments						
		- Rubber grip						
		-Fastening/clamping elements						
		undershirt						
		-Zipper						
		-Fastening and straps						






Item	Assembly		Settings & functions		Damage & deformation		Screw connections	
			without defects	with defects	without defects	with defects	without defects	with defects
6	table area	Table with or without recess						
		- Brackets						
		-Wooden parts						
		-Fastening/clamping elements						
7	head area	headrests						
		- Brackets						
		- Upholstery and covers						
		-Fastening/clamping elements						
		-Reset adapter						

Notes for any repairs and further maintenance:

This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There is no handwriting or other markings on the paper.

**i** You can also find an interactive inspection plan that you can fill out yourself in the download area of our website.

# 9. Reuse and change of patient

- **DANGER** Before each reuse, the product should be thoroughly inspected in accordance with the inspection plan in the "Inspection Plan" chapter and cleaned in accordance with the "Cleaning and Disinfection" chapter!
- **DANGER** Ensure that the product is not damaged when preparing the stickers!The safety information must be clearly legible! The safety information must be clearly legible!
- **DANGER** The service provider is responsible for ensuring that the user has the instructions for use and the necessary knowledge to use the product!
- **DANGER** The individual needs and clinical pictures of patients must always be taken into account!
- **DANGER** The usage time must not exceed the specified service life! Continued use after the end of the service life can only be approved after a thorough inspection by the manufacturer/distributor!

## 9.1 Reuse

The Upright and Supine Stander Lasse is generally suitable for reuse (e.g. after storage or transport), although products are subject to particular stress when reused.

The operator/service provider is responsible for ensuring that the device is in perfect condition and has been properly prepared for reuse.

When reusing the product, it is important that all documentation relating to the device (such as instructions for use, delivery note, inspection plans, etc.) is available.

When passing the product on to other operators, all documentation relating to the device must be handed over to the next user.

The device may only be transferred to other operators if the labels (manufacturer's and safety instructions) on the device are undamaged. The information on the device type and date of manufacture must be clearly legible for the new user.

When reusing the device, all upholstery (padded parts) must be replaced!

It is recommended that textile covers and straps be replaced. See the chapter "Cleaning and disinfection" and observe the relevant instructions.!

**IMPORTANT** If the device is more than 4 years old, it is recommended that the battery be replaced with a new one when reinserting it..

## 9.2 Change of patients

The user is responsible for safe patient transfers and necessary preparation. If you encounter any problems, please contact your service provider/dealer!

The Upright and Supine Stander Lasse is generally suitable for changing patients; the configuration with imitation leather covers is recommended here.

All surfaces that come into contact with patients must be cleaned and disinfected!

It is recommended that textile covers and straps be replaced. See the chapter "Cleaning and Disinfection" and observe the relevant instructions!

# 10. Technical data

## 10.1 Mechanical and electrical data

Heidelberger Upright and Supine Stander Lasse

Model with tilt adjustment Size 3, 3G, 4, 5

Operating environment conditions			
operating temperature	+10 °C to +35 °C		
humidity	30% to 70% (non-condensing)		
air pressure	700 hPa to 1060 hPa		
Environmental conditions during storage and transport			
temperature	-10 °C to +45 °C (+10 °C to +25 °C recommended)		
humidity	20% to 70% (non-condensing)		
air pressure	800 hPa to 1060 hPa		
Electrical data			
protection class	II		
degree of protection	BF		
U (In)	100-240 V AC, 50/60 Hz		
P (In)	420 VA		
system voltage	24 V DC		
Operating time of the electric motor	max. 2 minutes ON / 18 minutes OFF		
EMV	All components comply with Directive 2014/30/EU and IEC 60601-1-2. Product of CISPR11, Group 1 Class B.		
SMPS power / at rest	200W / ~ 0,8 W		
Battery / TYPE	lithium-ion battery		
Battery / Nominal voltage / Capacity	25,7 V / 2,85 Ah / 73,25Wh		
Battery / Charging time	~10 hours (simultaneous use of the device is possible)		
Protection class according to DIN EN 60529 (IP)			
control box	IPX6		
Drives for tilt adjustment	IPX4		
manual operation	IPX6		
Akkumodul	IPX6	General information about the device	MIN IP22
functional data			
Maximum patient weight	Size 3 – 70 kg  Size 3G – 60 kg   Size4 – 70 kg   Size 5 – 130 kg		
horizontal height	See Chapter 10.2		
angle of inclination	from 0° to 80°		
adjustment	2 buttons on hand control		
Dienstleistung			
maintenance	See the chapter entitled "Service and maintenance".		

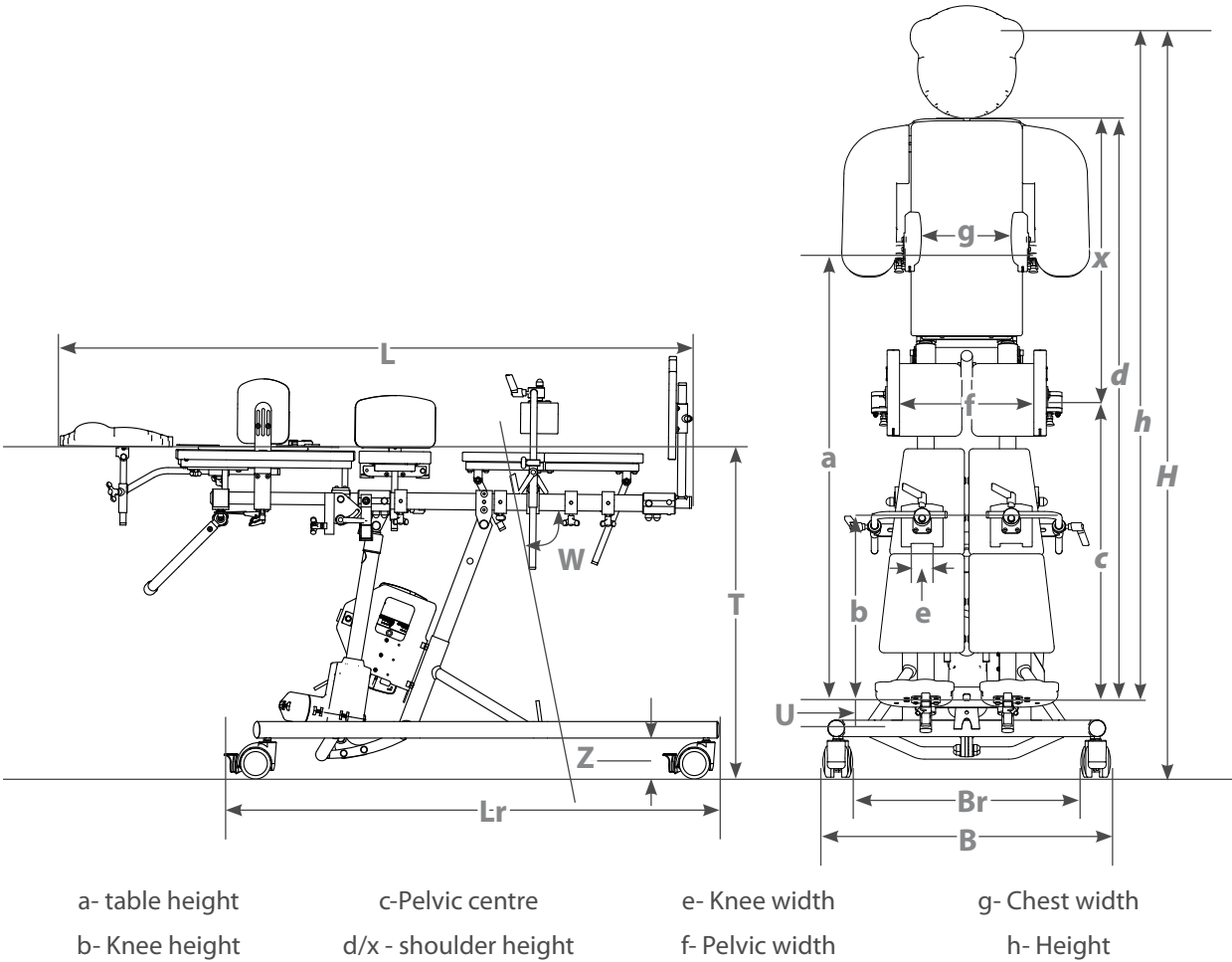
10. Technical data

Weight	
Total weight (for basic equipment)	Size 3 ~ 75 kg   Size 3G ~57kg
	Size 4 ~ 80 kg
	Size 5 ~ 85 kg
transport dimensions	
[Width] x [Length] x [Height] (for basic equipment)	Size3: 70x150x80,5 cm   Size 3G: 70x150x91 cm
	Size 4: 70x165x85 cm
	Size 5: 72,5x175x93 cm

10.2 Mechanical and anthropometric data

Heidelberger Upright and Supine Stander Lasse

Model with tilt adjustment Size 3, 3G, 4, 5



Size	Lr	Lr	T*	B	Br	Z	U	W
3	115	~150	80,5*	70	57	9,5*	0-11	Up to 85°
3G	115	~155	91*	70	57	9,5*		
4	115	~170	84,5*	70	57	9,5*		
5	143	~180	93,5*	69,5	58	9,5*		

**i** Attention! Adjustment limits a, b, c, x, d, e, f, g are in conjunction with the corresponding accessories and may change when configuring your device.

The dimensions a, b, c and d in the table are shown for the following configurations:  
with standard footrest brackets and in retracted position (U = 0 cm)  
without pointed foot correction and angle adjustment

Size	a, cm	b, cm	c, cm	x <sup>1</sup> , cm	d, cm	e <sup>2</sup> , cm	f <sup>2</sup> , cm	g <sup>3</sup> , cm	h, cm	H, cm
3	82-99	30-43	59-67	52-62	120-134	7-14	20-42	22-44	~124-158	~165**
3G	89-99	30-43	66,5-72	52-62	123-141	7-14	20-42	20-44	~124-162	~165**
4	98-110	38-46	70-82	61-73	140-155	7-14	20-42	22-44	~155-175	~185**
5	100-140	39-57	85-98	56-72 <sup>4</sup>	145-164	9-15	36-51	32-54	~170-200	~200**

[1] – min/max if C = max  
[2] – depending on option  
[3] – with standard and optional parts  
[4] – extension board required for X > 66  
(\*) – in vertical position  
(\*\*) – with castors 100 mm Ø + 4.5 cm

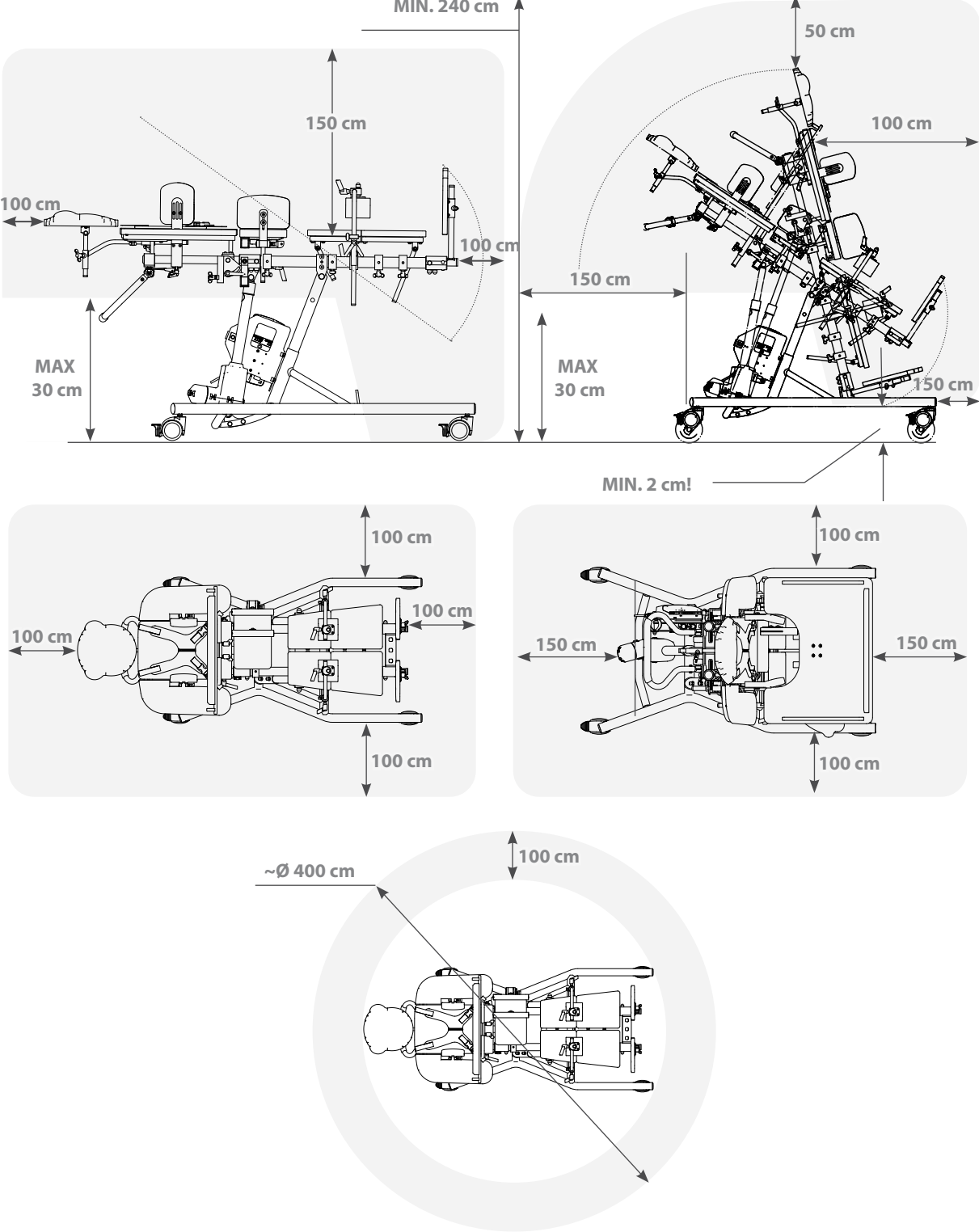
10. Technical data

10.3 Minimum spatial requirements around the patient

Heidelberger Upright and Supine Stander Lasse

Model with tilt position Size Mini, 3, 3G, 4, 5

The areas marked in grey are required free areas that are necessary for a safe patient environment and convenient operation of the device..



10.4 Electromagnetic compatibility

- WARNING** Although the system has no active or sensitive parts, there is a risk that the proper operation of devices that emit or generate electromagnetic fields may be impaired.
- WARNING** Be aware of possible electromagnetic interference that the device could cause to the operation of devices in its vicinity that generate electromagnetic fields.

Radiation

The electric upright system is designed for operation in the electromagnetic environment specified below. The customer or user of the electric upright system should ensure that it is used in such an environment..

Emission measurements	consistency	Electromagnetic Environment Guidelines
HF emissions according to CISPR 11	Group 1	The electric upright system uses RF energy exclusively for its internal function. Therefore, its RF emissions are very low, and it is unlikely to interfere with neighbouring electronic devices.
HF emissions according to CISPR 11	Class B	The electric raising system is intended for use in all facilities, including: Residential areas Facilities directly connected to a public utility network that also supplies buildings for residential purposes.
Harmonics according to IEC 61000-3-2	Class A	
Voltage fluctuation/flicker according to IEC 61000-3-3	Class A	

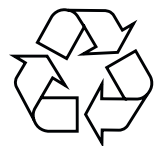
Interference with other devices

The use of drive systems next to or on other equipment should be avoided as it may cause malfunctions. If such use is necessary, the drive system and other equipment should be monitored to verify that they are functioning normally. If the user notices unusual behaviour or interruptions in the drive system caused by mobile phones, microwaves or transmission masts, this could be a sign of electromagnetic interference.

**Portable RF communication devices** (including peripherals such as antenna cables and external antennas) should not be used closer than 30 cm (12 inches) to any part of the drive system, including the cables specified by the manufacturer. Failure to do so may result in poor performance of the device.

# 11. Disposal

The Upright and Supine Stander Lasse must be disposed of properly. Please contact your specialist dealer for this purpose.  
Packaging materials must be separated according to waste type and disposed of in the waste containers in accordance with the municipal recycling concept. Waste disposal may vary from municipality to municipality.  
The product consists of recyclable steel and aluminium alloys, European wood types and plastic. For proper disposal, please contact your local waste disposal authority (recycling centre) or the administration of your place of residence if necessary.



Observe the disposal regulations of your country.  
The operator must ensure that all components to be disposed of are not infectious/contaminated.  
Outside Europe, the relevant laws and regulations of the respective country must be observed.



**The product must not be disposed of with household waste.**  
**Recycle the device as electrical equipment.**

# 12. Warranty

Warranty services relate to product defects that can be proven to be due to material or manufacturing faults.  
We provide a 3-year warranty on the frame parts of the Upright and Supine Stander Lasse from the date of delivery. Any defects will be repaired free of charge by Rehatec® GmbH. Electrical components, upholstery, wooden parts, castors, gas springs and Bowden cables are excluded from the warranty.

Rehatec® GmbH cannot accept any further warranty or liability for damage resulting from:

- the use of non-original replacement parts and accessories or those not approved by Rehatec® GmbH
- modifications or interventions to the product without the approval of Rehatec® GmbH
- natural wear and tear or excessive strain
- improper use or violent damage
- failure to observe the instructions for use
- Accidental damage
- Repairs or modifications carried out by persons who are not trained or authorised by Rehatec® GmbH

The warranty shall be void in the event of design modifications without the written consent of Rehatec® GmbH.

Defective or replaced parts are the property of Rehatec® GmbH.

The warranty does not cover accidental damage.

The warranty applies to new devices.





# Warranty Card

You have purchased a high-quality product from **Rehatec® GmbH**

The Rehatec® product described below is of impeccable quality and functional design. **Rehatec® GmbH** undertakes to repair any damage resulting from material defects free of charge within the two-year warranty period from the date of purchase.

The only items excluded from the warranty are upholstery, fabrics and castors.

**Upright and Supine Stander Lasse**  
**Model with tilt position Size 3, 3G, 4, 5**

*Model name*

*Serial number*

*Date of purchase*

**Dealer's stamp and signature**

## notes

## notes

[illegible]

## notes

[illegible]

# REHATEC<sup>®</sup>

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