

Instruction for Use  
**ELBUR PB 325**



CE



Dear Customer,

Congratulations on having chosen a quality ELBUR Care Bed which will certainly fully meet your expectations. We would like to take this opportunity to thank you for showing such confidence and trust in our company and purchasing one of our products.

Due to designing and manufacturing in accordance to the latest technological development at the time of delivery, our nursing beds, which are used to alleviate and compensate for injuries and disabilities, are very durable and ensure essential performance. They combine modern design and technical accuracy with user-friendly handling, also meet the varying needs of patients and professional caregivers.

Based on great experience of Elbur company, we can guarantee high quality and reliability of our products. We also care about attractive design, as well as matching furniture systems and accessories, which can be chosen depending on the individual needs.

This instruction manual provides important information regarding safe operation for the Operators, Users and Patients. It describes: assembling, care and maintenance of the nursing bed and operating the adjustment functions. It will help you to get familiar with the assembly actions, operation, capabilities and limitations of your bed. Read these instructions carefully and follow them exactly in order to provide reliable service and avoid damage or incorrect operation.

If you have any questions regarding setting up, using, maintaining this product or you would like to receive other customer service information, please do not hesitate to contact your local distributor or if in doubt our company directly.

We always meet customer expectations and we will do our best to fulfil your needs in future.

Team Elbur

## Table of contents

General information .....	6
Contact details .....	6
Design policy .....	6
Safety symbols used .....	6
1.0. Product description.....	7
1.1. Intended purpose and range of application .....	7
1.2. Technical specification.....	12
1.3. Labelling of ELBUR Care Beds.....	13
1.4. Explanation of symbols used on labelling .....	14
1.5. Definition of the groups of persons involved .....	16
2.0. Safety information and general warnings.....	16
3.0. Electric components .....	20
4.0. Accessories and spare parts.....	22
5.0. Mattress selection .....	24
6.0. Assembly .....	25
6.1. Delivery and identification of parts.....	26
6.2. Main assembly .....	26
6.3. Installation and use of Additional Equipment .....	38
6.3.1. Full-length wooden side rails .....	38
6.3.2. Lifting Pole.....	43
6.3.3. Rastomats - adjustment of the Lower Leg Rest.....	45
6.3.4. Bed-end wooden cover .....	48
7.0. Castors operating.....	50
8.0. Plug assignment and cable routing.....	52
9.0. Bed positioning .....	54
9.1. Comfort Handset .....	55
9.2. Auto-contour Handset .....	56
9.3. Trendelenburg Handset .....	56
9.4. Locking individual functions on the handset.....	57
10.0. Emergency lowering of the back rest .....	57

11.0. Moving and repositioning .....	58
12.0. Functionality Check .....	59
13.0. Cleaning and Disinfection .....	60
14.0. Disassembly .....	61
15.0. Troubleshooting .....	62
16.0. Maintenance .....	64
17.0. Electromagnetic Compatibility statement .....	70
18.0. Disposal .....	73
19.0. Warranty .....	73

## General information

This instruction for use is part and parcel of the product and must accompany every product sold.

<b>Article name, [number]</b>	<i>Instruction for use of ELBUR PB 325 [35192]</i>
<b>Document number, version, date of issue</b>	<i>TF-22.5 ver.02, 06.2024</i>

All rights reserved - no part of this manual may be reproduced in any form without written permission of the manufacturer.

This instruction for use comply with requirements of Annex I - Chapter III of from the MDR 2017/745 regarding the information supplied with the device.

## Contact details

When assistance is needed regarding setting up, using, maintaining this product or when is necessary to receive other customer service information, please do not hesitate to contact your local distributor or if in doubt our company directly at the following address:



<b>Address</b>	Elbur sp. z o.o. sp.k. Działosza 34, 56-500 Syców, POLAND (PL) NIP: 9112035149   REGON: 386426270 BDO: 000467132
<b>Telephone</b>	+48 62 786 97 80 (Secretariat) +48 62 786 97 90 (Sales Department)
<b>E-mail / Website</b>	<a href="mailto:info@elbur.eu">info@elbur.eu</a> / <a href="http://www.elbur.eu">www.elbur.eu</a>

## Design policy

This manual reflects the latest product development. However as our policy is one of continuous improvement, we reserve the right to modify design or introduce technical changes without prior notice or without being imposed to any obligation to adapt or replace similar products previously delivered.

## Safety symbols used

In this Instruction for use, safety information is displayed in the following way:

<b>WARNING</b>	
	<i>Indication of a potentially hazardous situation that, if disregarded could lead to death or injury or could result in damage / failure to the products or something around it.</i>
<b>ATTENTION</b>	
	<i>General information or tips regarding the safe use and helpful courses of action.</i>

It is very important to read all written safety information included in this manual and follow the instructions exactly!

Pictures are used to clarify instructions in this manual. Details of the depicted product may deviate from your product.


## 1.0. Product description

### 1.1. Intended purpose and range of application

The ELBUR Care Bed PB 325 is classified as a Class 1 Medical Device in accordance with the Medical Device Regulation 2017/745 on medical devices. This bed is developed, manufactured, and tested according to the latest technical knowledge and all relevant safety standards for medically used beds. Most importantly, it ensures basic safety and essential performance by meeting the requirements presented in the EN 60601-2-52 standard.





Basic UDI			
ELBUR nursing bed Model	GS1 Company Prefix	Internal Number / Model Ref.	Valid-check character pair
ELBUR PB 325	590426134	ELBURPB325III	G5
590426134ELBURPB325IIIG5			

This product is an electrically operated bed intended for long-term, continuous care of elderly, infirm, frail, and handicapped adult patients. It provides a high degree of lying comfort. Subject to risk assessment, ELBUR Care Beds are designed to help maintain, improve, compensate for, or alleviate injury, disability, disease, and the overall condition of the patient.

WARNING	
	<i>A risk assessment must be carried out before the bed is used by a patient by a clinically qualified person (age, size, condition should be assessed).</i>

ELBUR PB 325 may be used in the following application groups according to EN 60601-2-52:

- *3 – Long-term care in a medical facility in which medical supervision is required and monitoring is provided if required.* A medical electrical device used in medical procedures can be provided to help maintain or improve the condition of the resident (e.g. retirement and nursing homes, rehabilitation facilities and geriatric institutions).
- *4 – Care in the home.* A medical electrical device is used to alleviate or compensate for injuries, disabilities or illnesses.

WARNING	
	<i>Do not exceed the safe working load of 200 kg.</i>
	<i>Only use suitable Side Rails and Mattress on this bed.</i>
	<i>Only use original accessories and spare parts approved by Elbur.</i>
	<i>ELBUR Care Bed PB 325 is not suitable for child patients or for use in hospitals.</i>

The ELBUR Care Bed PB 325 described in this manual is approved by the manufacturer for use by patients with a physical size equal to or greater than 146 cm in height, a mass equal to or greater than 40 kg, and a body mass index (BMI) equal to or greater than 17.

For patients taller than 190 cm, it is recommended to use the original ELBUR Mattress Platform Extension.

The ELBUR Care Bed described in this manual is not suitable for patient transport. However, it can be moved within the patient's room for cleaning purposes or to allow access to the patient for care activities.

The ELBUR PB 325 is designed and manufactured solely as a resting place to support one patient. The safe working load of the bed is 200 kg. This includes the weight of the patient, mattress, and accessories as specified by EN 60601-2-52.

Safe Working Load:	200 kg
Accessories	20 kg
Mattress	15 kg
Maximum Patient Weight:	165 kg




The maximum allowable patient weight depends on the total weight of the mattress and any accessories attached at any time. Therefore, the bed can be operated without restriction as long as the combined weight of the patient and any attached accessories does not exceed the safe working load of 200 kg.

Tests were conducted with the bed equipped with standard full-length side rails and a lifting pole. Therefore, these components are not considered accessories for the purpose of these calculations.

The ELBUR Care Beds are developed and constructed in such a way that they can function long and safely. If the bed is used and operated properly, the estimated product life is 4-8 years – it all depends on the conditions within and frequency at which is used.

ELBUR Care Beds are appropriate for situations where assistance is required in positioning the patient, or in reducing lifting and manual handling stresses on the carer – it makes the nursing staff work easier. Electric regulation simplifies patients getting into or out of the bed, comfortable setting in chosen position and provides easy access to the patient during hygienic actions given by caregivers.

They are classified as a Class II electrical products and are suitable for indoor use only. The electrical building components comply with safety standard EN 60601-1 for Medical Electrical Equipment.

<b>ATTENTION</b>	
	<i>ELBUR Care Beds have no special connectors for potential equalisation. Please be aware of that before connecting additional medical electrical equipment. The operator of the medical products has to ensure that the combination of the equipment meets the requirements of EN 60601-1 standard.</i>
	<i>ELBUR Care Bed described in this manual is not licensed for use on the North American market, especially in the United States of America. The distribution and use of ELBUR Care Beds in these markets, including through third parties, is prohibited by the manufacturer.</i>
	<i>Any other use than described in this chapter is considered improper and is excluded from a possible liability claim.</i>



**Materials and Construction:**

The individual components of the ELBUR PB 325 Care Bed are made from high-quality materials, with biocompatibility detailed in the technical documentation. The beds are primarily constructed from steel sections coated with a durable polyester-powder coating. All wooden or wood-based parts are protected with an eco-friendly coating that is low in harmful substances, ensuring the surfaces are safe for skin contact.

**Mattress Support Platform:**

The standard Mattress Support Platform is composed of wooden slats, though metal slats are also available upon request. It is divided into four functional sections:

- Back Rest
- Stationary Seat
- Upper Leg Rest
- Lower Leg Rest

The standard dimensions of the assembled Mattress Support Platform are 90 x 200 cm. Custom dimensions for width and/or length can be ordered. The width of the bed end is determined by the width of the mattress support platform.

**Drive System:**

The bed's various parts are moved by low-voltage protective Linak Actuators:

- Main Lift Actuators: Positioned at either end of the bed to control bed height.
- Back Rest and Leg Rest Actuators: Located underneath the Mattress Support Platform.

Each position can be continuously adjusted with the touch of a button on the Handset. The actuators, handset, and power cable are connected to a Control Box fixed to the Mattress Support Platform Head End.

**Basic configuration and side rails options:**

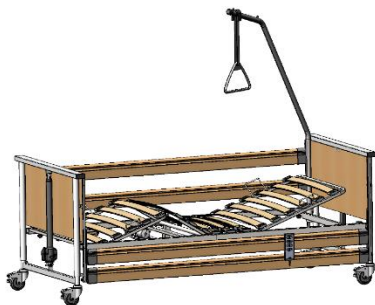
The ELBUR PB 325 is equipped with Full-length wooden Side Rails and a Lifting Pole as standard. Additionally, the bed can be customized with various types of side rails:

- Full-length wooden side rails (standard)
- Split Side Rails
- Folding Side Rails
- Metal Full-length Side Rails

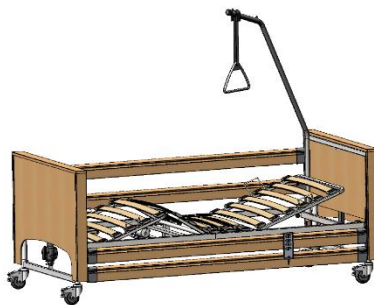
### Bed Versions:

The ELBUR PB 325 bed comes in different versions, primarily distinguished by the type of Bed Ends:

- a) Basic version: Height adjustment range of  $40 \div 80$  cm.

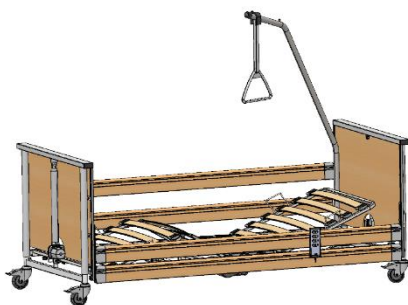


*ELBUR PB 325*

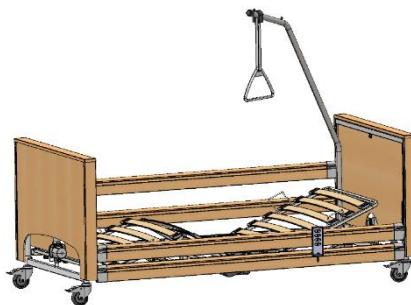


*ELBUR PB 325  
with wooden bed-end covers*

- b) Low version: Height adjustment range of  $23 \div 63$  cm.

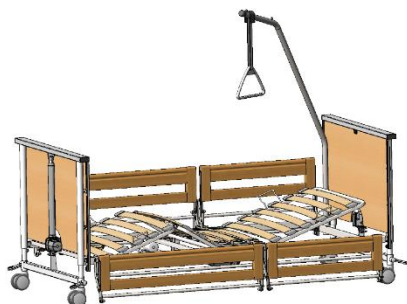


*ELBUR PB 325 Low*

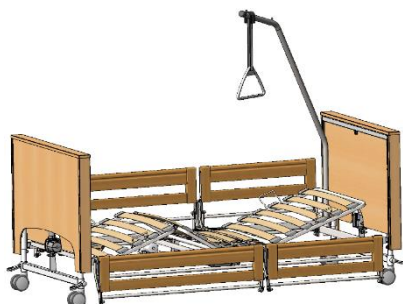


*ELBUR PB 325 Low  
with wooden bed-end covers*

- c) Low H version (with split side rails and axional braking system): Height adjustment range of  $30 \div 70$  cm.



*ELBUR PB 325 Low H*

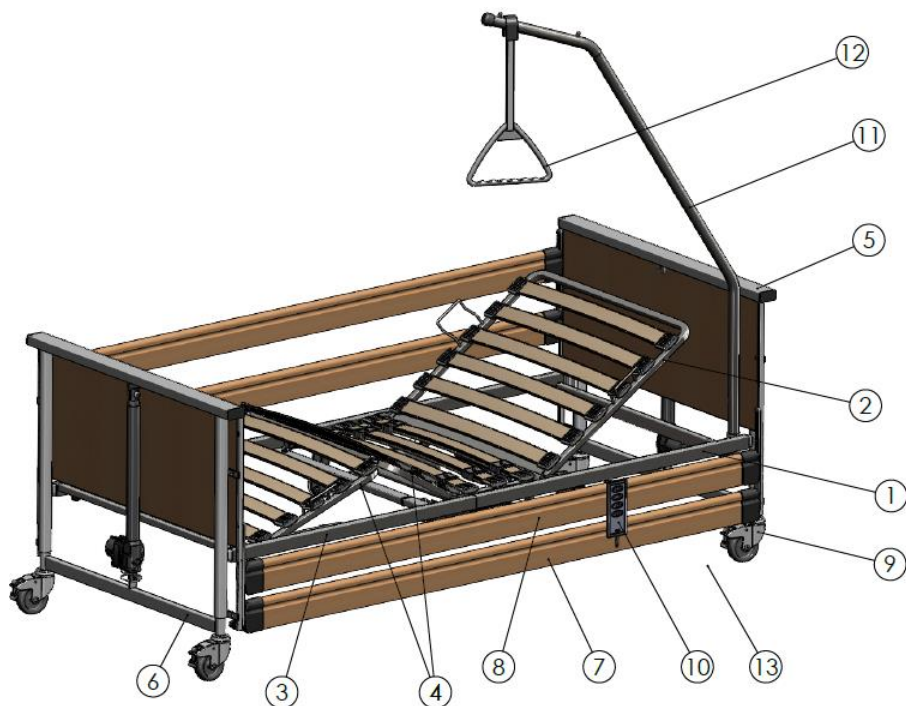


*ELBUR PB 325 Low H  
with wooden bed-end covers*

ELBUR Care Beds are designed to be dismantled into sections for ease of transportation, but they can be easily assembled with a minimum of tools.

No.	Description	No.	Description
1	MSP (Head Section)	2	Back Rest Section
3	MSP (Leg Section)	4	Leg Rest Section
5	Bed End (Head End)	6	Bed End (Foot End)
7	Lower Side Rail	8	Upper Side Rail
9	Castor with brake pedal lever	10	Handset
11	Lifting Pole	12	Triangle Handle with Strap
13	Drive system (concealed in picture): Control Box with Back Rest Actuator, Leg Rest Actuator		

The picture below shows the ELBUR PB 325 in the basic version. The only difference with other models lies in the Bed Ends, which can be ordered to convert the bed to a low version or to include the axional braking system.



Compared to the standard external dimensions presented in the table on the next page, the basic ELBUR PB 325 with wooden bed-end covers has external dimensions of 104 x 214 x 88 (128) centimeters [width x length x height].

## 1.2. Technical specification

MODEL:		ELBUR	PB 325 [Basic]	PB 325 [Low]	PB 325 [Low H]
Load [kg]	Maximum Patient Weight	165			
	Safe Working Load (SWL)	200			
	Lifting Pole	80			
Dimensions [cm]	External [WxLxH]	101 x 214 x 86 ÷ 126	101 x 214 x 86 ÷ 126	105 x 225 x 93 ÷ 133	
	Mattress Support Platform (MSP) [WxL]	90x200			
	Under bed clearance (in the lowest position of the MSP)	30	7	13	
Adjustment	Height – Mattress Support Platform [cm]	40 ÷ 80	23 ÷ 63	30 ÷ 70	
	Angle – Back Rest / Upper Leg rest / Lower Leg rest / Comfort Position [°]	0 ÷ 70 / 0 ÷ 35 / 0 ÷ 20 / 0 ÷ 12			
Mattress	Dimensions [Width x Length]	90 x 200 cm			
	Acceptable thickness	15 cm			
	Volume density of foamed material	35 - 50 kg/m <sup>3</sup>			
Drive system	Control Box	LINAK CA20			
	Lifting Hi-Lo Actuator	LINAK LA24			
	Back Rest / Leg Rest Actuator	LINAK LA24			
	Handset	LINAK HL74 Comfort			
	Input voltage*	120-240V AC, 50/60Hz			
	Output voltage	31V DC			
	Power input*	Max. 1A			
	Operating time*	Duty cycle: 10%, 2 min / off 18 min			
	Ingress Protection*	IP X4			
	Electrical appliance Class*	II			
Noise level	Typically < 65 dB (A)				
Castors	Type / Diameter [mm]	Metal / 100	Metal / 100	Plastic / 100	
Weight [kg]	Total	84,6	85,0	102,0	
	MSP (Head End / Leg End) With wooden slats	16,6 / 16,2			
	Bed End (1)	15,7	15,9	18,0	
	Back Rest / Leg Rest Actuator	1,5 / 1,5			
	Handset / Control Box	0,3 / 0,6			
	Side rails (set)	11,2	11,2	24	
	Lifting Pole with Triangle Handle	5,3			
Operating / storage conditions	Working temperature [°C]	+5 ÷ +40			
	Storage temperature [°C]	-10 ÷ +50			
	Humidity [%]	30 ÷ 75			

\* Electrical data values visible on the Name Plate of the ELBUR Care Bed.

**ATTENTION**

- All indications of dimensions and weights in this manual are approximate (measurement tolerance:  $\pm 10$  mm /  $\pm 0,5$ kg /  $\pm 1,5^\circ$ ). All parts and data are subject to a constant further development and therefore may differ from mentioned data.
- The technical details on the next page are only valid for the standard configuration and dimensions and optimal ambient conditions.
- The values are no longer applicable if your Care Bed has been modified, damaged or suffers from severe wear.

**1.3. Labelling of ELBUR Care Beds****Manufacturer's Name Plate** (including serial number\*)

[located on the outside of the Bed End lower section]

<b>Model: ELBUR PB 325</b>		<b>REF</b> abcde	
		<b>SN</b> rrrmm12345	
	U <sub>in</sub> : 120-240 V~   50/60 Hz U <sub>out</sub> : 31 V~, 3 A   IP X4 Int: 10%, Max.2min/18min		
= 165 kg	= 200 kg		
Elbur sp. z o.o. sp.k. Działosza 34, 56-500 Syców, POLAND T: +48 62 786 97 80   E: info@elbur.eu   W: www.elbur.eu			

\*Please quote SN on all correspondence regarding sales and customer service information or to report unexpected operation.

**Warning / Information label no. 35352**

[located on the inside of the MSP Head End frame]

<p><math>\geq 40</math> kg    <math>\geq 146</math> cm    BMI <math>\geq 17</math></p>	= 165 kg = 200 kg	35352
--	----------------------	-------

**Warning**

- ELBUR Care Beds are designed for patient having a physical size equal to or more than 146 cm, a mass equal to or more than 40 kg and a body max index (BMI) equal to or more than 17.

**Warning / Information label no. 35360**

[located on the inside of the MSP Head End frame]

		35360
--	--	-------

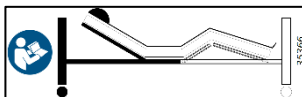
**Warning**

- Incompatible Side Rails and Mattresses can create entrapment hazards.

**Warning / Information label no. 35366**

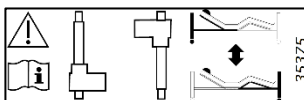
(Mattress Support Platform – Head End Section)

*[located on the end profile of the MSP Head End]*


**Warning / Information label no. 35370**

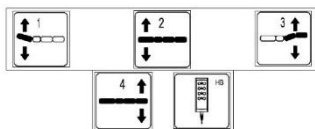
(Indication of the appropriate assembly of drive units)

*[located underneath the bed]*


**Warning / Information label no. Linak CA20**

(Indication of the appropriate cables connection to Control Box channels)

*[located inside the CA20 Control Box]*


**Warning / Information yellow label no. Linak LA24 Hi-Lo Head End**











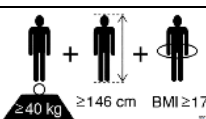

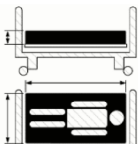




(Indication of the appropriate cable connection between Linak LA24 Hi-Lo Head End and Control Box CA20)

*[located around the cable end close to the Hi-Lo head lifting actuator]*



## 1.4. Explanation of symbols used on labelling

Symbol	Description
	Catalogue number
	Serial number
	Date of manufacture (month/year)
	Manufacturer
	Maximum Patient Weight

Symbol	Description
	Safe Working Load (SWL)
	Medical Device
	Caution, read instructions before use
	Consult the Instruction for Use
	Temperature limit
	For indoor use only
	Do not dispose of in household or commercial waste. This product must be disposed via the separated municipal waste.
	Class II electrical device, double insulated, degree of protection against electric shock
	Type B applied part according to EN 60601-1 (symbol indicates this product has a degree of protection against electric shock for type B equipment)
	Conformity mark according to the Medical Device Regulation (EU) 2017/745
	Minimum Patient weight = 40 kg; Minimum Patient Height = 146 cm; Minimum Patient BMI = 17.
	Detachable side rail suitability <i>Incompatible Side Rails can create hazards!</i>
	Mattress suitability - <i>Incompatible Mattresses can create hazards!</i>
	Product with a thermofuse
	Safety isolating transformer, general
	Pollution control mark (China)
	Symbol regulatory compliance mark of The Australian Safety/EMC Regulations

## 1.5. Definition of the groups of persons involved

### WARNING

- |   |  |
|---|--|
| ⚠ | <i>All persons working with the ELBUR nursing beds must be acquainted with the safety instructions contained in this manual. Improper operation can result in personal injuries or product damage.</i> |
|---|--|

**Operator** – every natural and legal person (e.g. care home operator, medical supply distributors) responsible for safe operation and supervising of the bed.

**User** – person who is qualified how to operate the bed or handle its functions, based on performed trainings, experience or briefing. The user is able to recognize and avoid possible risks and to assess the health condition of occupant.

**Patient** – person who is injured, disabled or handicapped and who occupies the ELBUR nursing bed in need of care.
















For homecare application area Operator, User and Patient can be perceive as the same person.














## 2.0. Safety information and general warnings

















### WARNING









- |   |   |
|---|---|
| ⚠ | <i>Before assembling and operating the Care Bed, you must read, familiarize, understand and follow all instructions in this manual and with rated values/symbols provided on labelling carefully. It helps to prevent any damage and risk occurring due to incorrect operation or use. All safety features instructions mentioned in this document must be strictly observed.</i> |
| ⚠ | <i>Use the Care Bed in accordance to its intended purpose and in accordance to all instructions detailed in this manual, describing the normal operating procedure, to ensure convenient handling, safe operation and effective use of this bed and the safety of users and carers.</i>   |
| ⚠ | <i>ELBUR Care Beds are not suitable for child patients or for use in hospitals.</i>   |
| ⚠ | <i>Remember to keep this instruction manual for future reference. Please ensure that the manual is available to users and carers at any time throughout the bed's service life.</i>   |
| ⚠ | <i>All actions regarding assembling, handling, positioning and using of the bed must be performed in accordance with the provided information to ensure safe operation.</i>   |
| ⚠ | <i>Only use technically perfect bed, in proper and faultless condition - it must not be used if faults have been detected on it that may injure the patient, staff or a third person, the bed or surroundings.</i>  |
| ⚠ | <i>If damage or malfunction is suspected, take the bed out of service immediately, label it as non-conforming product and disconnect it from the power until exchange or repair of broken components.</i>   |
| ⚠ | <i>Before using the Bed, the operator should understand the Bed and its functionality.</i>  |






<b>WARNING</b>	
	<i>Any actions that are inconsistent with the manual are performed at your own risk and can result in serious injury or death. Elbur sp. z o.o. sp.k. shall not be held liable for any damage, injuries or accidents arising from unauthorised modifications, non-genuine spare parts, negligence or use that is at variance with this manual.</i>
	<i>Any serious incident that occurs in relation to this medical device, affecting the user/operator or the patient, should be reported to manufacturer - Elbur sp. z o.o. sp.k. and the Competent Authority of the Member State in which the device is used.</i>
	<i>The bed must only be operated by persons who are able to operate it in accordance with the manual. Operators and patients must be risk assessed to ensure they are able to operate the ELBUR Care Bed safely, without risk to themselves or others.</i>
	<i>Patients should use the bed adjustment function on their own only if their physical and mental condition allows it and if they have been positively verified (assessed as competent to do so) in this regard by qualified medical personnel. They must then understand any safety instructions in this manual. Before start using the Handset, the operating staff must make the patient aware of its control functions.</i>
	<i>It is recommended (but not required) to perform the assembly process with another person, qualified in ELBUR's Care Bed operating.</i>
	<i>This Bed must not be exposed to smoke, naked flame, extreme temperature, flammable gases or other hazardous substances or situations.</i>
	<i>The Bed must not be used where there is a danger of explosion or in the presence of uncontained flammable liquids.</i>
	<i>Electrical installations must meet local requirements.</i>
	<i>Electrical equipment can be hazardous if misused or abused. Do not open any electric components under no circumstances.</i>
	<i>ELBUR Care Beds do not have emergency-off switch. Remove the power plug in emergency situation.</i>
	<i>Ensure that all cables (Power Mains Cable, Handset cable, Actuators cables) are not damaged by crushing, that there is no loop in the cables and that they are not get entrapped between the moving parts of the bed.</i>
	<i>Only the Power Supply Lead supplied with the bed may be used. Connect it directly to an electrical outlet – do not use extension cords or multiple outlet extension cords.</i>
	<i>ELBUR Care Bed should be located in place which allow to easily removing mains plug from the socket.</i>
	<i>The electrical supply cable could create a trip hazard. Safely position and route the cable underneath the bed using its holders.</i>
	<i>Make sure that the Power supply cord does not get squished under the castors.</i>

<b>WARNING</b>	
	<i>The Handset should be positioned to avoid strangulation risk. Make sure it is placed properly, that it is not trapped between Side Rails and Mattress Support Platform/other furniture.</i>
	<i>At the same time only one person can operate the bed functions. It is strictly prohibited to press all buttons simultaneously on the Handset.</i>
	<i>The bed must not be used if there is any visible damage to the any electrical part of the drive system.</i>
	<i>When routing cable for other electrical equipment used with the bed, ensure that those cables cannot be squeezed, crushed or damaged by the moving parts on the bed. Inappropriate routing of accessory cables could lead to dangerous electric hazards. The bed must not be used if there is any visible damage to any cables.</i>
	<i>If using the electrical functions adversely affects the health of the bed user, disconnect the power supply and only use the bed in static mode.</i>
	<i>Do not exceed the maximum duty cycle of 2 minutes. Observe a subsequent break of at least 18 minutes by all means.</i>
	<i>For reasons of safety and electromagnetic compatibility, use only original electric components from Elbur that have been released for the Care Bed model in order. Otherwise it can caused danger for patients and loss of bed functionality. It is still possible that the operation performance is influenced by electromagnetic fields like those of cell phones, power generators of high power energy sources, despite sample representing products family of ELBUR Care Bed type PB was tested on electromagnetic combability and complied to the EN 60601-1-2 standard. On the other hand, it is also possible that the electronics of the bed can influence other electronic devices.</i>
	<i>The special attention should be given to children and pets - keep them away from this bed unless supervised by an adult as there is a risk of injury and/or choking on small parts.</i>
	<i>Maximum Patient Weight and Safe Working Load must never be exceeded.</i>
	<i>Only one person should occupy the bed at any time.</i>
	<i>Use the bed on the flat, level, solid floors - remember that all four castors must touch the ground and must be locked if there is a patient on the Bed and location is not going to move, as an unlocked bed castor can cause injury to a patient who leaves the bed or changes position.</i>
	<i>This bed is not adapted for patient's transport, but it can be moved within patient room for cleaning or patient access. Remember to unplug the Power Supply Lead before relocating the bed and make sure it will not be rolled over or damaged in other way.</i>
	<i>ELBUR Care Bed with a patient may only be moved in an emergency situation. This activity should be then performed by two people due to force the propulsion, but above all to ensure necessary safety. Patient has to stay in flat position and Care Bed should be adjusted in the lowest height.</i>



<b>WARNING</b>	
	<i>When moving ELBUR Care Bed on the TLSU Transport Bracket, take special care to prevent it from tipping over or unexpectedly moving.</i>
	<i>Do not use the bed as a means of transport, ladder, or storage for heavy or hot objects. Never stand on the bed.</i>
	<i>Do not perform medical operation on the ELBUR Care Bed.</i>
	<i>Before operating this bed, ensure that its user is safely positioned to reduce the risks of bed fall or entrapment.</i>
	<i>There must be enough space for bed height adjustment in the full range. It cannot be blocked by any obstacles such as bedside lockers or window sills etc.</i>
	<i>When operating the moving parts of the bed, care must be taken to ensure that the patient, operator or any other people, especially children or pets, and objects do not become trapped, jammed or injured.</i>
	<i>The height of the Mattress Support Platform must be adjusted to the correct level for the patient's health condition. It should also facilitate the provision of appropriate care to the staff.</i>
	<i>The Bed should be left in its lowest position and with side rails in the upper and locked position when the patient is unattended to reduce risk of injury due to falls.</i>
	<i>Always check for any entrapment risks under the bed before lowering to its lowest position.</i>
	<i>Never use area under the bed as a storage space.</i>
	<i>Do not lower the bed while a Patient Hoist that extends beneath the bed is being used. Hoist access is obtained when the bed is event in its lowest position, but for ELBUR PB 325 Low is necessary to raise its Mattress Support Platform to at least 30 cm measured from the floor.</i>
	<i>Use only original Elbur accessories which are compatible with this bed – any modification is strictly forbidden without authorization of our company.</i>
	<i>Contact your local distributor or manufacturer directly if the exchange or repair of faulty parts have to be made. Only original materials and components may be used in those kind of situations.</i>
	<i>Only use Side Rails that are compatible with this bed as supplied by Elbur. Incompatible Side Rails can create hazards and entrapment risks. There must be a minimum height of 22 cm without compression measured from the top of the mattress to the top edge of the top rail.</i>
	<i>Where a speciality mattress (thicker than 15 cm) or mattress overlay is used and the distance from the top of uncompressed mattress to the top of the side rails, if fitted, is less than 220 mm a risk assessment must be performed to assure equivalent safety, in order to prevent trapping or person completely falling out in accordance to EN 60601-2-52.</i>
	<i>If a Lifting Pole is fitted on the Bed, increased attention must be taken during movement or lifting, to the space around the lifting pole, so that the equipment is not damaged.</i>

<b>WARNING</b>	
	<i>Make sure that other attached equipment, which is compatible with the ELBUR Care Bed, can function in a secure and safe manner. Contact your local distributor or manufacturer, if you have any doubts.</i>
	<i>ELBUR Care Bed must be cleaned and washed down with a mild household disinfectant in case of a patient change or in other situation required it. Before start cleaning procedure, the bed's power supply lead must be disconnected from the socket.</i>
	<i>Clean / disinfect the bed by wiping all rigid parts with a soft, damp cloth (not drenched) with a mild household disinfectant, suitable for varnishes and synthetics (only gentle, not aggressive agents should be used in order to maintain the material resistance).</i>
	<i>ELBUR Care Bed must not be cleaned in automatic bed washer or with high-pressure or steam cleaner, as liquid penetrates into the electrical components could result malfunctions and danger. Protect those components from moisture.</i>
	<i>Only specially authorized technicians are allowed to carry out troubleshooting activities and replace individual electric components in the event of their failure.</i>
	<i>Maintenance must be carried out only by or under supervision of suitably trained and qualified personnel or professional persons such as electricians or electro-technically instructed persons who have knowledge of the relevant provisions and are able to recognize possible risks and hazards. Failure to do so may result in injury or an unsafe product. It is obligated to perform periodic inspections and electrical tests according to EN 62353 performed by technically trained person at least once a year, with every re-use for a new patient or with every maintenance, to ensure safe condition of the Nursing Bed. The subsequent technical safety check has to be documented.</i>
	<i>During performing service work or functionality check patient cannot lay on the bed.</i>
	<i>The manufacturer is not liable for damage caused as a result of not following instructions from this manual or by the lack or improper service.</i>

### 3.0. Electric components

<b>WARNING</b>	
	<i>ELBUR Care Beds do not have emergency-off switch. Remove the power plug in emergency situation.</i>
	<i>Duty cycle: Intermittent operation 2 min / 18 min OFF. This implies that after the maximum continuous action of two minutes, there must be a break of 18 minutes.</i>
	<i>Do not attempt to open or repair any electrical parts. It could be fatal!</i>

**ATTENTION**

	<i>Thermal switch turns off control box if it overheats, when e.g. someone continuously playing with the Handset. After a cooling down time of approx. 30 minutes, it should be ready to re-use again.</i>
	<i>Limit switches turn off the Actuators, when they get to the limit position.</i>

ELBUR PB 325 described here is equipped with drive system from Linak, a market leader in electric linear actuator technology worldwide.

The input voltage is converted into a protective low voltage in the Control Box. The Actuators and the Handset function with non-hazardous low voltage.

The level adjustment of the Mattress Support Platform is adjusted via two Main Lift Actuators, connected to the Control Box with helical cables.

Electric adjustments of the Back Rest and Leg Rest sections is performed by two separate Actuators connected with Control Box by straight cables.

**Control Box**

Type	<i>Linak CA20</i>
Supply voltage, frequency	<i>120-240 V AC, 50/60 Hz</i>
Output voltage	<i>31V DC, 3A</i>
Protection category	<i>IPX6</i>
Duty cycle	<i>10 %, Max. 2 min / 18 min.</i>
Electrical appliance Class	<i>II</i>
Power supply lead	<i>H05VV-F ; permanently connected</i>

**Main Lift Actuator**

Type	<i>Linak LA 24</i>
Maximum Load / Lift	<i>1400 N / 405 mm</i>
Protection category	<i>IPX4</i>
Power rate	<i>24 V DC, Max. 3,5 A</i>
Duty cycle	<i>10 %, Max. 2 min / 18 min.</i>
Electrical appliance Class	<i>II</i>




**Back Rest Actuator / Leg Rest Actuator**



Type	<i>Linak LA 24</i>
Maximum Load / Lift	<i>3500 N / 85 mm</i>
Protection category	<i>IPX4</i>
Power rate	<i>24 V DC, Max. 4,5 A</i>
Duty cycle	<i>10 %, Max. 2 min / 18 min.</i>
Electrical appliance Class	<i>II</i>

**Handset**

Type	<i>Linak HL74 Comfort</i>
Protection category	<i>IPX4</i>

## 4.0. Accessories and spare parts

<b>WARNING</b>	
	<i>For safety reasons only use original Elbur accessories – modification of this Care Bed is strictly forbidden without the approval of the manufacturer.</i>
	<i>After each modification, previously approved by the manufacturer, all functions must be tested and approved by properly trained and qualified personnel, in accordance with the criteria and guidelines set out in the following sections.</i>
	<i>When using accessories on the bed, ensure particularly that there are no risks of crushing or shearing for the patient when adjusting Mattress Support Platform and positions of its sections.</i>

<b>ATTENTION</b>	
	<i>Elbur sp. z o.o. sp.k. will assume no liability for any accidents, damage, injury, hazards and risks arising from the use of other accessories and spare parts (not supplied directly from Elbur or by your local distributor).</i>
	<i>Elbur sp. z o.o. sp.k. does not accept any liability for the use of these products on other makes.</i>

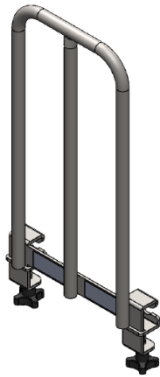
Every element of the additional equipment we offer meets the special quality and safety standards of Elbur, established in accordance with our company policy. The installation of our practical and mobility-promoting accessories is quick and easy, using the fixing points on the bed that have already been prepared for this purpose. These products ensure that the ELBUR Care Bed is even more precisely tailored to the individual needs of patients requiring special care.

The full list of accessories available can be found on the manufacturer's website at [www.elbur.eu](http://www.elbur.eu) or in the Product Catalogue. Here, you will find marketing information and technical specifications for individual products, including various types of:

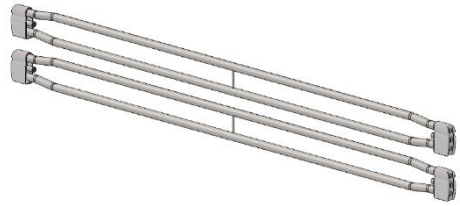
- side rails,
- extra-height side rails,
- bed levers,
- mattress support platform extensions,
- trays for eating meals,
- wall deflection bumpers.

Various accessories can be added to assist both patient and carer – visualizations of some of them are on the next page. The possibility of using a specific type of additional equipment in conjunction with a given version of the ELBUR PB 325 Care Bed in a specific configuration should be consulted with the Sales Department of Elbur sp. z o.o. sp.k.

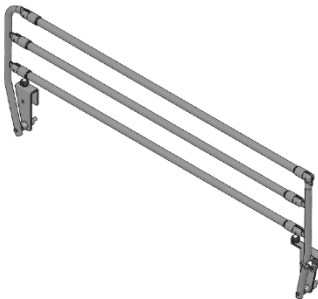
If you need to replace any element of the bed (damaged or worn), please contact the manufacturer who will provide a list of spare parts to identify the required article number.



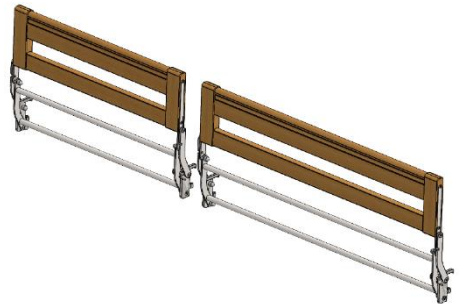
*Bed Lever S-20*



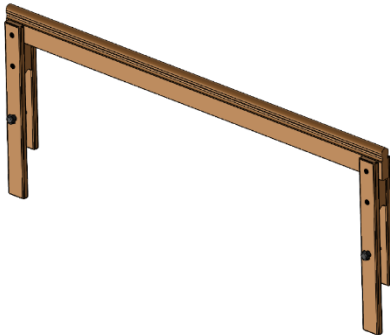
*Full-length metal side rails*



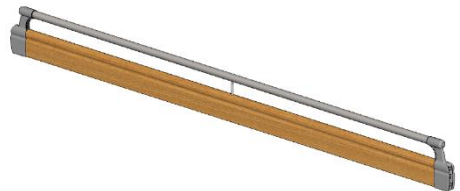
*Folding side rail*



*Split side rails*



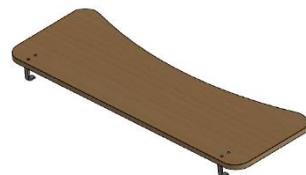
*Clip-on safety side rail*



*Integrated metal safety side rail*



*20-cm mattress platform extension*



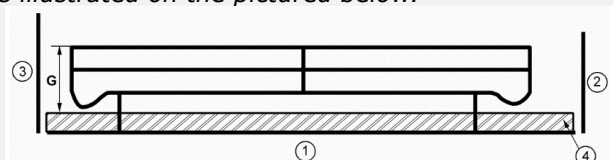
*Tray*

## 5.0. Mattress selection

Standard mattress size, which is dedicated for use on ELBUR Care Beds described in this manual, has dimensions equal to: 90 cm wide, 200 cm long, and max. 15 cm thick (height), assuming at the same time the volumetric density of the foam at least 35 kg/m<sup>3</sup>.

### WARNING

- ⚠ There must be a minimum height of 22 cm without compression measured from the top of the mattress to the top edge of the top side rail. This is illustrated on the pictured below.



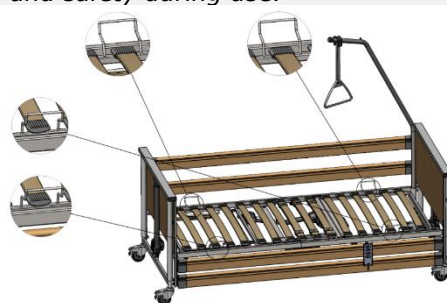
1 – mattress support platform, 2 – foot end board,  
3 – head end board, 4 – mattress, **G ≥ 22cm**

- ⚠ Where a speciality mattress or mattress overlay is used and the distance from the top of uncompressed mattress to the top of the side rails, if fitted, is less than 220 mm a risk assessment must be performed to assure equivalent safety.

- ⚠ Mattress platform extension infill piece must be used if the mattress support platform is extended. Failure to do so will result in unacceptable gaps and risk of injury and entrapment.

- ⚠ All mattresses must be fitted and used in accordance with the mattresses manufacturer or supplier's instructions.












- ⚠ The mattress must always be properly positioned between the mattress holders welded to the bed frame segments. Failure to do so may result in improper use and potential risk to the patient or user. Ensure that the mattress is securely placed within these holders to maintain stability and safety during use.









A demonstration video, aimed at visualizing the assembly information presented in the user manual, is available on our website at [www.elbur.eu](http://www.elbur.eu) under the Downloads section.



## 6.0. Assembly

<b>WARNING</b>	
	<i>Before commencing assembly of the ELBUR Care Bed, you must carefully read, understand and follow all instructions in this manual and on the bed labels.</i>
	<i>Assembly must be carried out by suitably trained and qualified personnel.</i>
	<i>Assembly must take place in clear, uncluttered area – there must be enough space available for adjusting the bed in the full height range and the space under the bed must remain clear.</i>
	<i>Extreme caution must be taken when moving the bed on its TLSU Transport Bracket to prevent from the bed tipping over or moving unexpectedly.</i>
	<i>The TLSU Transport System will be unstable from the moment when the grub screws are loosened – please be especially careful then.</i>
	<i>Children and pets should be kept away from the device.</i>
	<i>A 230 V power outlet (properly installed) must be available, near the bed in easily reachable position. Only the power lead supplied with the bed may be used.</i>
	<i>If the bed has become soiled or contaminated during transport refer to cleaning and disinfection instructions.</i>
	<i>If the bed is stored in conditions outside the normal operating range, it should be allowed time to stabilise, in normal operating conditions, before use.</i>
	<i>Ensure Head bed end and Foot bed end are assembled as described in section so that the anti-Trendelenburg function works correctly.</i>
	<i>All functions must be tested and approved after assembly by suitably trained and qualified personnel.</i>

<b>ATTENTION</b>	
	<i>A 5mm Allen key is supplied to use for assembly.</i>
	<i>It is recommended to keep TLSU Transport System for future use when the bed would have to be properly stored.</i>
	<i>There is no difference in the assembly process of the Mattress Support Platform, whether it uses wooden or metal slats. The same assembly steps apply for beds with dimensions other than the standard 90 x 200 cm.</i>
	<i>Packaging must be sorted according to recyclable and other types of waste, recycled and disposed of in line with the environmental regulations and legislation of the country concerned.</i>
	<i>Always verify shipment contents with your order (items described below may not be included in the ordered model configuration) to ensure that delivery is complete and undamaged. Check whether any visible damage has occurred to the Bed during transport.</i>
	<i>Any missing parts, faults or damage must be reported immediately to the carrier and your local distributor or Elbur directly in writing.</i>

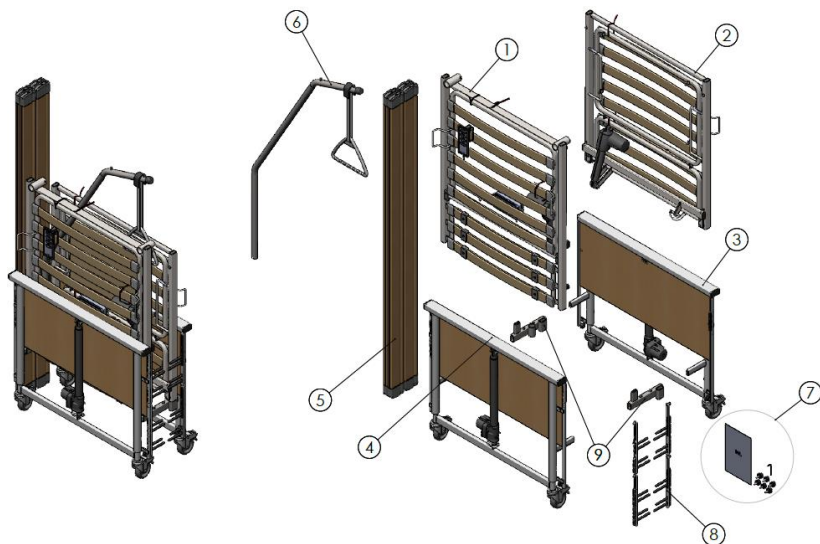
## 6.1. Delivery and identification of parts

1. ELBUR Care Bed PB 325 is delivered partially unassembled and mounted on the TLSU Transport Bracket, which simplifies transport and relocation at the place of delivery.

The reliable packaging protects the beds from external damage, ensuring that the patient or user receives the bed in perfect condition.

The image below shows the partially disassembled parts for quick assembly:

- 1) **Mattress Support Platform Head End:**  
Includes the assembled CA20 Control box, Back rest actuator mounted for transport, and Handset.
- 2) **Mattress Support Platform Foot End:**  
Includes the Leg rest actuator mounted for transport.
- 3) **Bed End**
- 4) **Bed End**
- 5) **Set of full-length wooden side rails (4 laths)**
- 6) **Lifting Pole with strap and triangle handle**
- 7) **Bag with assembly parts:**  
Includes the instruction manual, the Allen key, and 6 plastic-headed thumb screws.
- 8) **Set of plastic sliders (4pcs.) for mounting side rails**

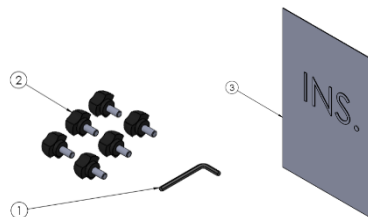


## 6.2. Main assembly

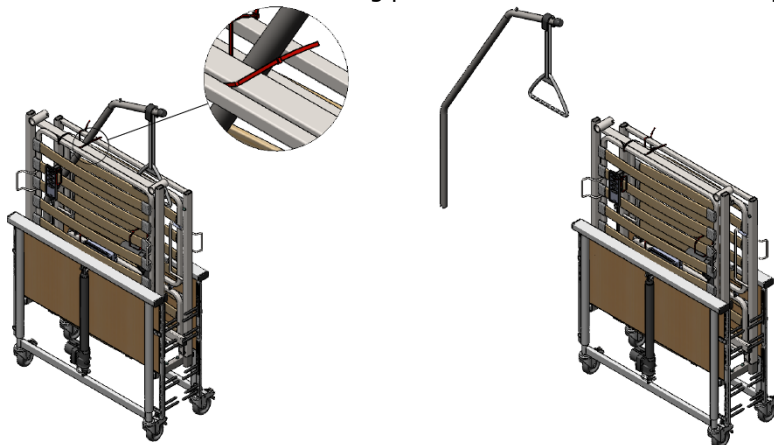
By following the assembly instructions, you can quickly and efficiently set up the ELBUR Care Bed, ensuring it is ready for use.

1. After removing the stretch film from the product and disposing of the remaining packaging materials, set aside the box containing the side rail kit temporarily.

2. Cut the red cable tie that secures the bag with assembly parts and the instruction manual to one of the bed frame's sections during transport.

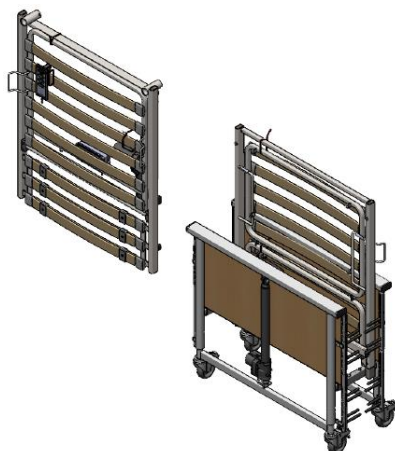


3. To remove the lifting pole from the transport system bracket, cut the red cable tie that secures the lifting pole to the head frame for transport.

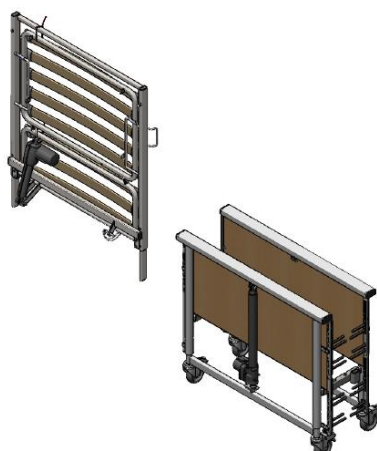


4. Remove the mattress support platform (MSP) head-end from the transport system bracket. After removing the MSP head-end, proceed to remove the MSP foot-end from the transport system.

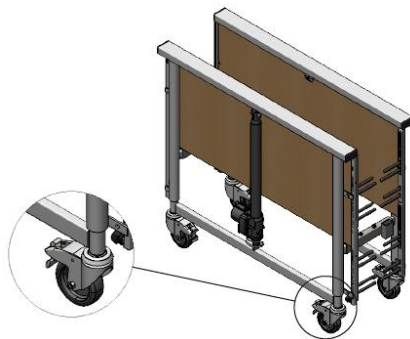
#### MSP Head End



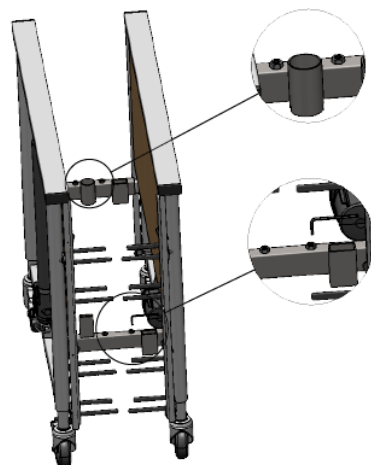
#### MSP Foot End



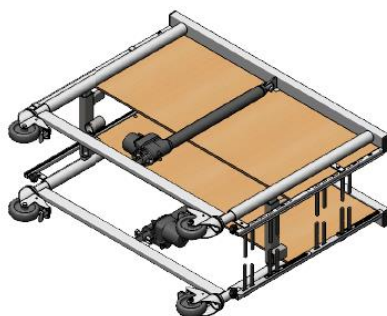
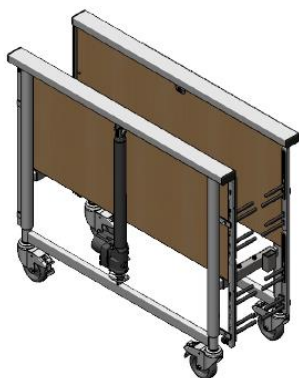
5. After removing both parts of the bed frame from the TLSU transport system bracket, rotate the castors on both bed-ends (front lift mechanisms) so they face inward and lock them in this position.



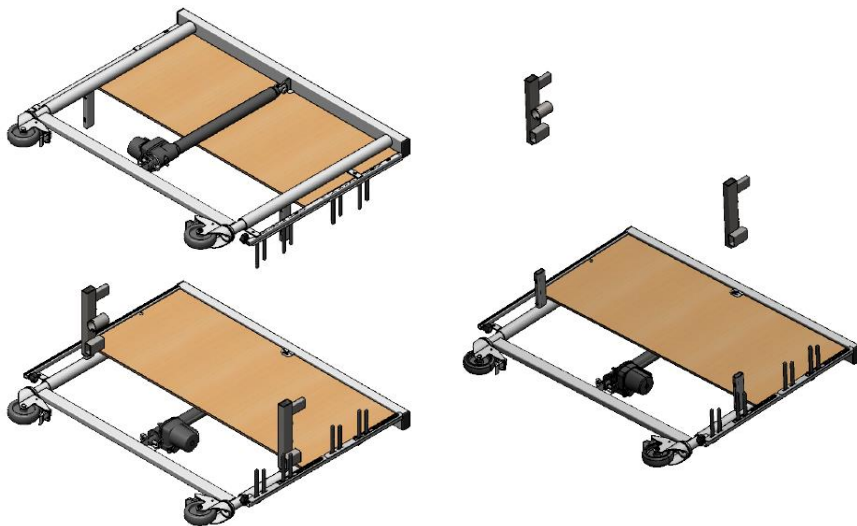
6. Using the Allen key provided in the parts bag, loosen the four set screws that secure the two bed-ends to the TLSU transport system bracket.



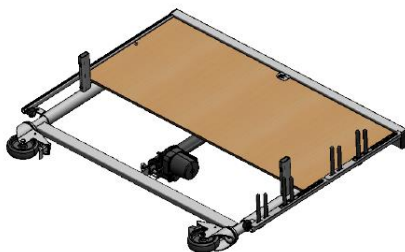
7. Once the screws are loosened, tilt the front lift mechanisms and lay one of them flat on the ground.



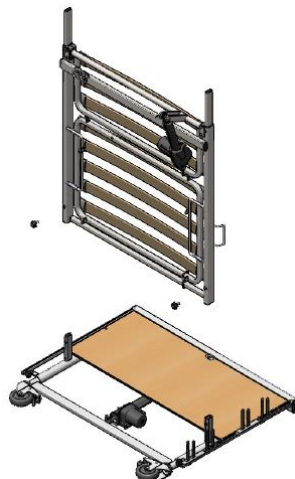
8.
  - The previously loosened TLSU transport system bracket allows for the easy removal of one bed end from the other, as well as the removal of the transport system bracket itself.
  - It is recommended to store the TLSU transport system for potential future disassembly, storage, and ease of transportation.



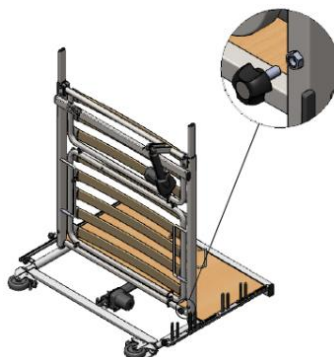
9.
  - Ensure the bed foot-end is laid flat on the ground with the castors facing inward and locked.
  - Both bed ends are exactly the same. The only difference is the plastic side rails which are assembled (inserted into the opposite steel rails) for transport. When the front lift mechanisms are on the TLSU system, the sliders are positioned on one side to avoid interference with the side rails or lifting pole located on the other side during transport.



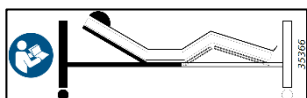
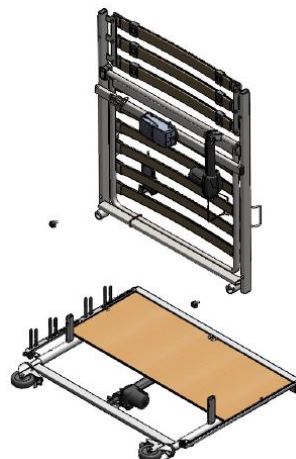
10.
  - Insert the foot section of the bed frame fully into the vertical profiles (inserts) of the bed end that has been laid flat on the ground.
  - The Mattress Support Platform (MSP) foot end is the part with only one actuator mounted for transport.
  - Make sure the edge of the bed frame aligns with the notched stops in the profiles of the bed end inserts.



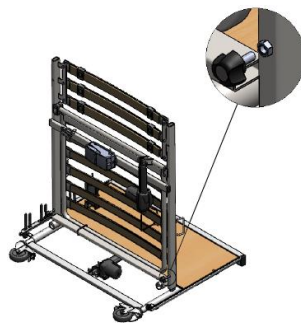
11.
  - Once fully inserted, use the two hand knobs from the bag with assembly parts screw them into the nuts on the bed frame's foot end, to secure the connection between the MSP foot end and the front lift mechanism.
  - Tighten these knobs as much as possible to ensure a secure and stable connection.



12.
  - Lay the other bed end flat on the ground. Ensure the casters are facing inward and locked in this position.
  - Insert the head end of the bed frame fully into the vertical profiles (inserts) of the front lift mechanism that has been laid flat on the ground.
  - The Mattress Support Platform (MSP) headend is the part with the control box, one actuator mounted for transport, and the handset. It is marked with special label:



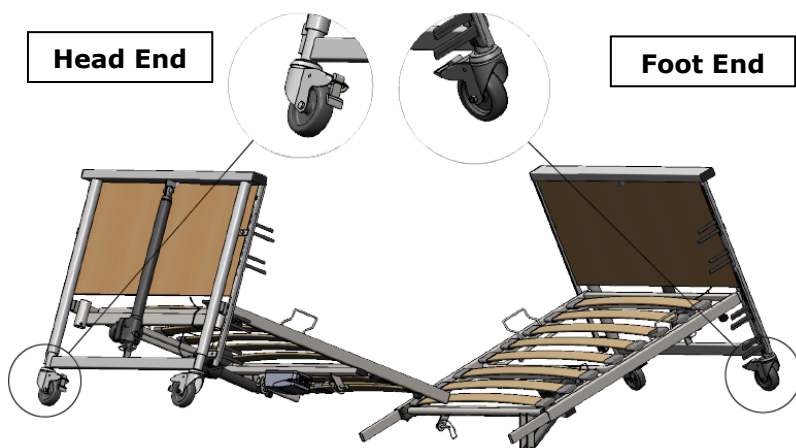
13.
  - Once fully inserted, use the two hand knobs from the bag with assembly parts screw them into the nuts on the bed frame's head end, to secure the connection between the MSP foot end and the front lift mechanism.
  - Tighten these knobs as much as possible to ensure a secure and stable connection.



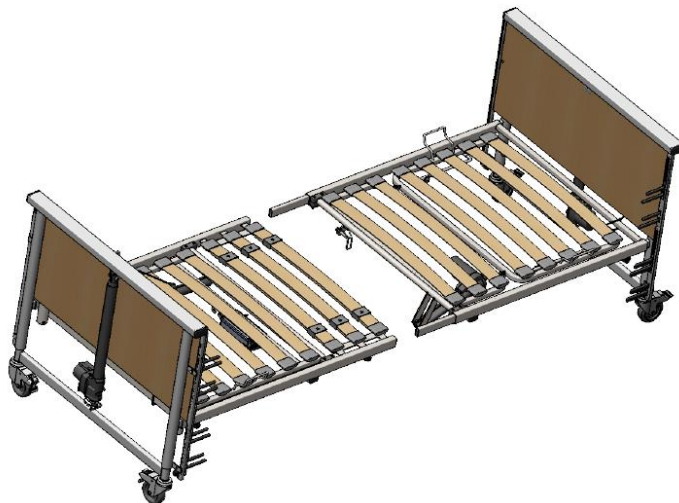
14. Once both halves of the bed frame are preliminarily assembled, tilt them and rest them on the ground in the position shown in the image below. Ensure they are facing each other in a way that allows for easy assembly as described in the next step.



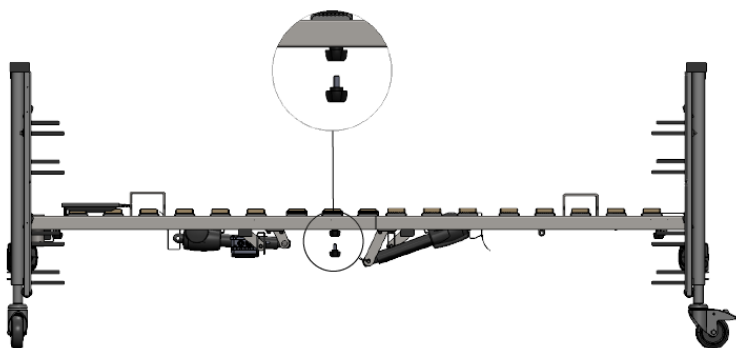
15.
  - Unlock the casters on the front lift mechanism at the foot end of the bed.
  - Keep the casters on the front lift mechanism at the head end of the bed locked.



16.
  - Stand to the side of the bed.
  - Use one hand to lift the head section and the other hand to lift the preliminarily assembled foot section.
  - The unlocked casters on the foot-end front lift mechanism will allow easy movement.
  - Slide the side profiles of the MSP foot end into the side profiles of the MSP head end.



17.
  - Once the foot end is fully inserted into the head end, secure their connection by tightening the hand knobs located in the middle of the bed frame on both sides.
  - These knobs are found in the parts bag along with the instruction manual and the allen key. The parts bag was attached to one of the bed frames with a cable tie during transport.





- 18.
- Reposition the casters on the front lift mechanism at the foot end to face inward and lock them in this position.
  - Ensure that both the head-end and foot-end lift mechanisms have their casters facing inward and locked.

**Head End**

**Foot End**



- 19.
- Stand on the side of the bed, along its long edge, where the plastic sliders are mounted for transport. This will ensure that when the bed is tilted, the sliders will be facing upwards and will not bear any weight, preventing damage.
  - Gently tilt the bed onto its opposite side. It is advisable to place something underneath to protect the bed components from damage or dirt.
  - Cut the red cable tie that secures the Handset to the MSP Head End during transport and hang it over the side profile of the bed.



20.
  - At each bed end, slightly remove the retaining clip from the base of the Hi-Lo main lifting actuator by squeezing the clip on either side (A).
  - Lift and pull the clip (B). If necessary, use a small flat blade screwdriver to lift the clip.
  - Cut the red cable tie that secures the Hi-Lo Head End actuator spiral cable together with the power supply lead to the MSP Head End during transport.
  - Fully insert the actuator cable (C).
  - Replace the retaining clip by pushing down (D).
  - Perform the same actions at the other end of the bed for the Hi-Lo Foot End actuator (first, cut the red cable tie that secures the Hi-Lo Foot End actuator spiral cable to the MSP Foot End during transport).

### ATTENTION



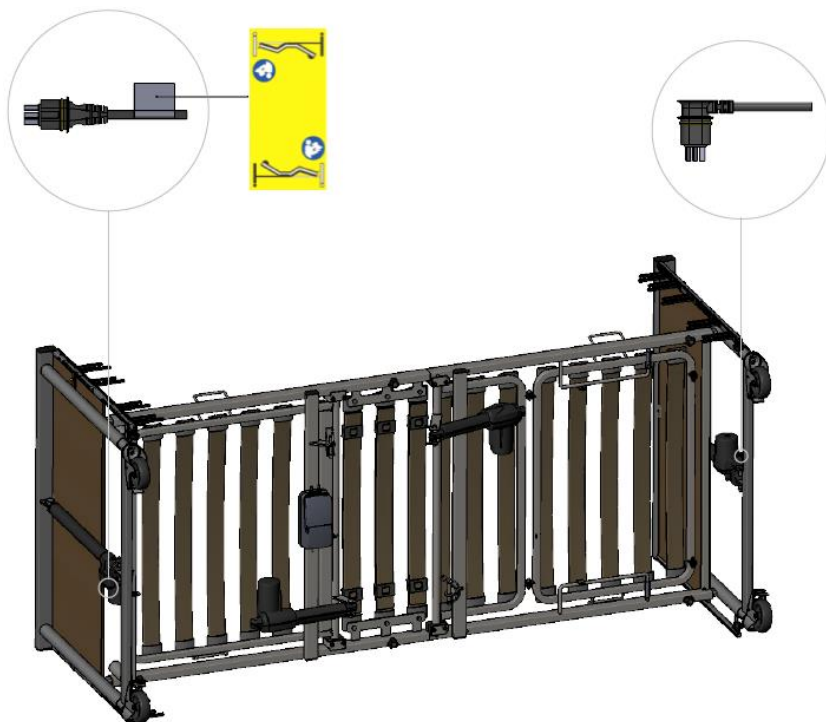
*The Hi-Lo actuator cable mounted on the Head End is marked with a special yellow information label. It has a straight plug to connect it to the actuator. In the control box, it is connected to the channel no.2.*

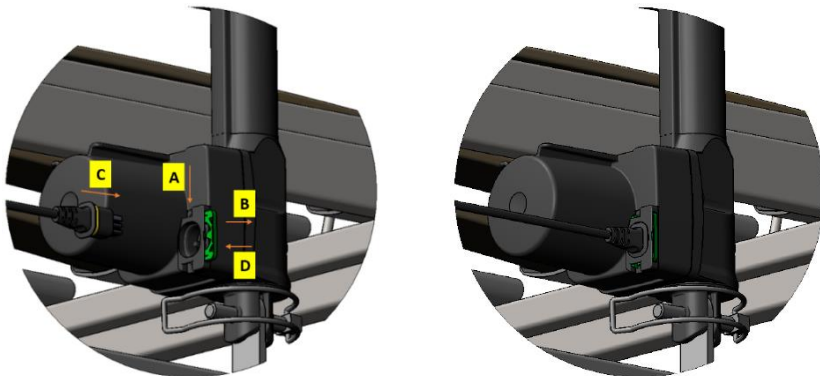


*The Hi-Lo actuator cable mounted on the Foot End has an angled plug to connect it to the actuator. In the control box, it is connected to the channel no.4.*

**Head End**

**Foot End**

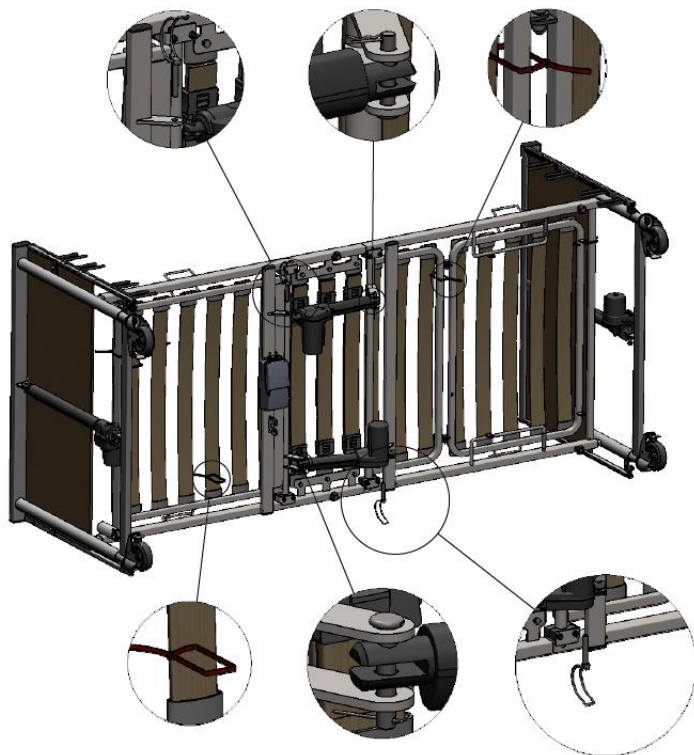




21. The mattress support platform actuators are secured with cable ties for transport. To ensure proper functioning:
- Cut the red cable ties securing the MSP actuators during transport.
  - Pivot the actuators 180 degrees as shown in the image, so they are in the correct position for further assembly steps.



- 22.
- When the actuators are pivoted and fitted into the frame brackets as shown in the image, fit the quick release bolts. Each actuator is secured with an R-Clip at the other end, which is assembled in the appropriate position even for transport.
  - Insert the black, straight actuator cable into the Leg Rest actuator socket channel. Make sure it is protected with the retaining clip as described in point 20 for the Hi-Lo actuators.
  - The Back Rest actuator is already delivered with a connected white, straight cable in both the control box and the actuator.

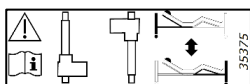


23. The mattress support platform will now be as shown below.

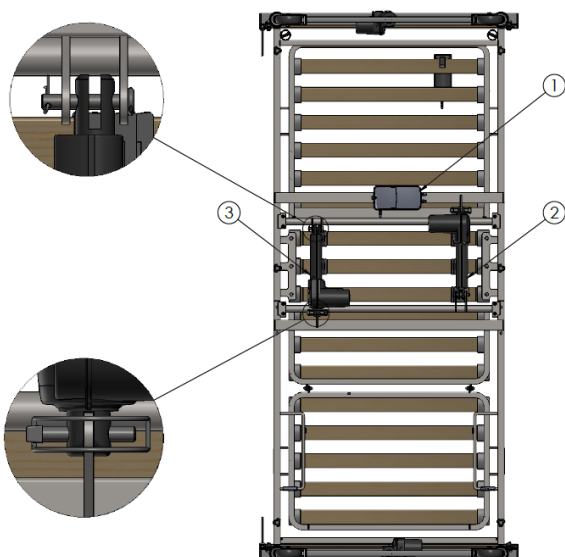
Bottom View

**MSP Head End**

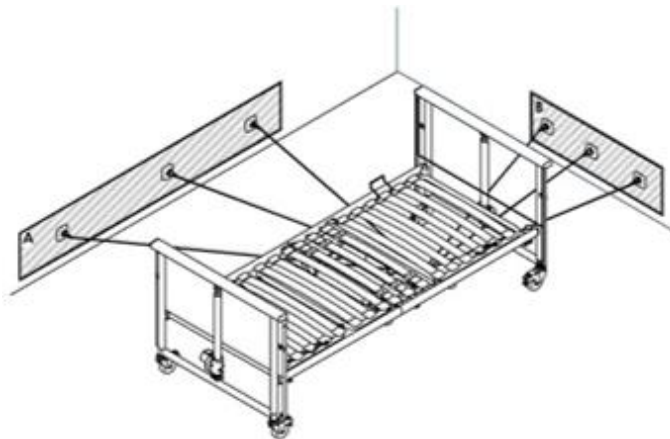
- 1) Control Box  
Linak CA20;
- 2) Leg Rest  
Actuator  
Linak LA24;
- 3) Back Rest  
Actuator  
Linak LA24.



**MSP Foot End**

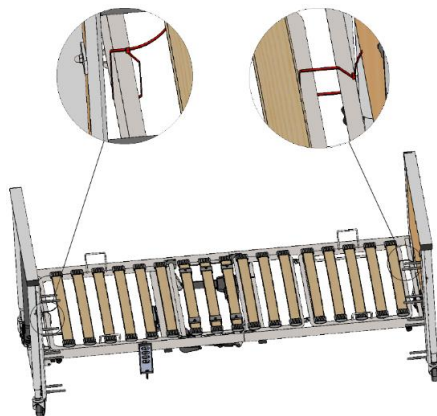


- 24.
- Plug the power supply lead directly into a mains supply socket. Do not use extension cords or multiple outlet extension cords.
  - Ensure the ELBUR PB 325 is located in a place where the mains plug can be easily removed from the socket. The central location of the CA20 control box with its permanently fixed power supply lead simplifies this.
  - Before proceeding with the assembly of the side rails, raise the bed to its highest position using the handset (refer to Chapter 9).

**WARNING**



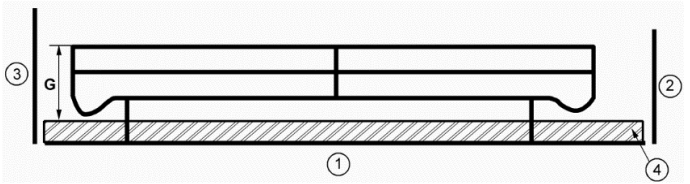








*The electrical supply cable could create a trip hazard. Safely position and route the cable underneath the bed, ensuring it is not damaged by crushing, there are no loops in the cables, and that they do not become entrapped between the moving parts of the bed or between the metal bed end front mechanism and the wooden front cover when it is assembled.*

25. The backrest and legrest profile sections are secured for transport using red cable ties. Remove these cable ties.



## 6.3. Installation and use of Additional Equipment

### 6.3.1. Full-length wooden side rails

<b>WARNING</b>	
	<i>Only compatible side rails supplied with the ELBUR Care Bed from the manufacturer must be used. The use of other brands is prohibited, as it may cause hazard and various types of dangers for the patient, user or carer.</i>
	<p><i>The Side Rails first and foremost serve as a fall prevention. There must be a minimum height of 220 mm without compression measured from the top of the mattress to the top edge of the top side rail. This is illustrated on the picture below.</i></p>  <p><i>1 – mattress support platform, 2 – foot end board, 3 – head end board, 4 – mattress, <b><math>G \geq 220 \text{ mm}</math></b></i></p>
	<i>Where a speciality mattress or mattress overlay is used and the distance from the top of uncompressed mattress to the top of the Side Rails, if fitted, is less than 220 mm a risk assessment must be performed to assure equivalent safety.</i>
	<i>Side rails should be handled with great care to prevent fingers and hands from getting caught and pinched between the wooden slats.</i>
	<i>If the Side Rails are in the upper position, always make sure they are properly and securely locked so that they cannot fall down unintentionally.</i>
	<i>Both ends of the Side Rails should always be at the same level in relation to the ELBUR Care Bed during use. They must not be left in a diagonal position when patient is on the bed.</i>
	<i>When the Side Rails are lowered, always hold the by the recess in the top rail or at the bottom by the bottom wooden slat to prevent them from dropping suddenly, which may result in the risk of injury (entrapment) or potential damage to the product.</i>
	<i>Make sure that the functionality and usability of the ELBUR Care Bed are not impaired during raising or lowering the Side Rails.</i>
	<i>Side Rails (or their height extensions, if present) must not be used to move or lift the ELBUR Care Bed on which they are mounted.</i>
	<i>A qualified person or medical professional have to assess and approve the patient's condition regarding the use of Side Rails on the used bed (the patient's height, age, physical and mental condition should be take into account). If the use of side rails is allowed, the patient should always be advised about their proper use and functioning.</i>

**WARNING**

*Before installation of the Side Rails and each new use, inspect all mechanical parts on the Mattress Support Platform, check all parts of the Side Rails, especially those securing them on the bed for any possible damages.*

**ATTENTION**

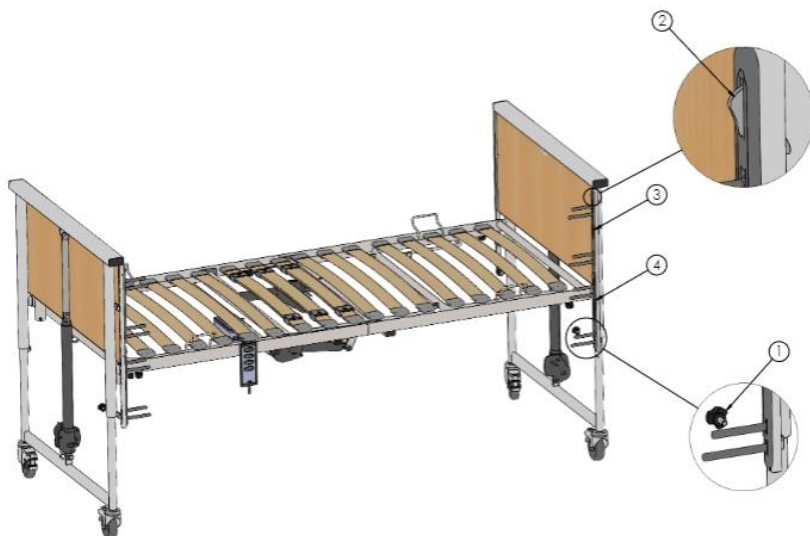
*The position of drilled holes for mounting the fingers of the Plastic Sliders is the same in all wooden slats delivered with the bed to minimize the risk of incorrect assembly and to achieve always the required and appropriate distance from the top of the mattress to the top edge of the top side rail.*



*The instructions for use of the ELBUR Folding Side Rails or the ELBUR Divided Side Rails are included with every sold piece of these products. When ELBUR Care Bed is configured with this type of side rails, it is necessary to carefully read these documents and refer to and follow all instructions included there.*

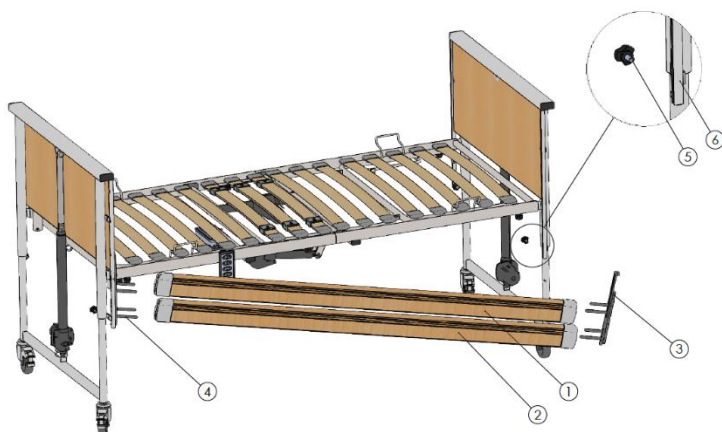
The ELBUR Care Beds described in this manual are equipped with Full-length Side Rails, which are made of wooden bars and fitted with plastic end caps. They allow the use of mattresses up to 15 cm in height. The main task of Side Rails is to protect the patient against accidental falling out of the bed.

1. The sliders for mounting the side rails are installed in the rails of the front lift mechanisms for transport. To prepare for the correct installation of the wooden side rails in the next steps, follow these instructions:
  - Make sure the bed is adjusted to its highest position.
  - Loosen the knob marked with number 1 at the foot end of the bed.
  - Remove the slider marked with number 4 from the rail.
  - Press the button marked with number 2 and lift the slider marked with number 3 to release it from the rail.
  - Loosen the knob at the head end of the bed and remove just the lower slider.
  - Tighten the knob back at the head end of the bed.
  - Release the upper slider in the same way as at the foot end, but do not remove it from the rail. Keep it hanging on the tightened hand knob.
  - At this point, there should be only one slider on the bed.



2. To ensure the ELBUR Full-length Side Rails are correctly assembled and securely installed, follow these steps:

- Align the side holes of one wooden slat (marked with number 2) with the two lower fingers of the slider mounted on the bed (marked with number 4). Insert the slat fully.
- Take the second wooden slat (marked with number 1) and align its side holes with the two upper fingers of the slider mounted on the bed (marked with number 4). Insert the slat fully.
- Take one of the free sliders (marked with number 3) and install it into the side holes at the opposite end of the wooden slats.
- Loosen the knob (marked with number 5) at the head end of the bed.
- Insert and slide the wooden rails with the fitted plastic grey sliders into the corresponding metal rail (marked with number 6) at the foot end of the bed.

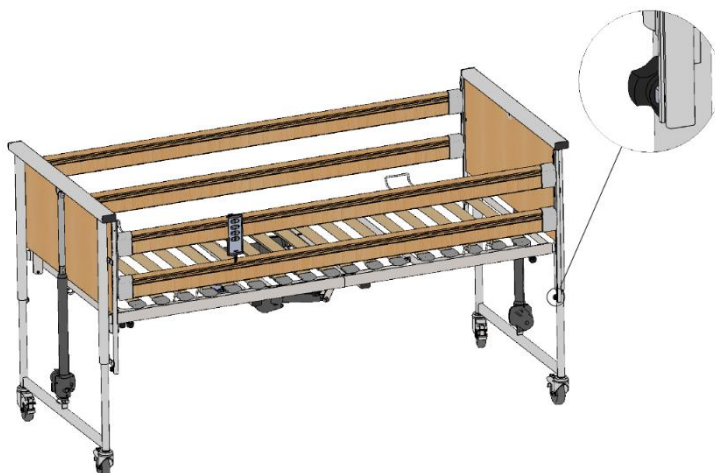




- Grasp the upper wooden slat at the foot end and pull the entire set of Full-length Side Rails above the upper button level until you hear a click sound, indicating they are locked and cannot be lowered without pressing the button.
- Tighten the knob (marked with number 5) back in the low section of the metal rail at the foot end of the bed.



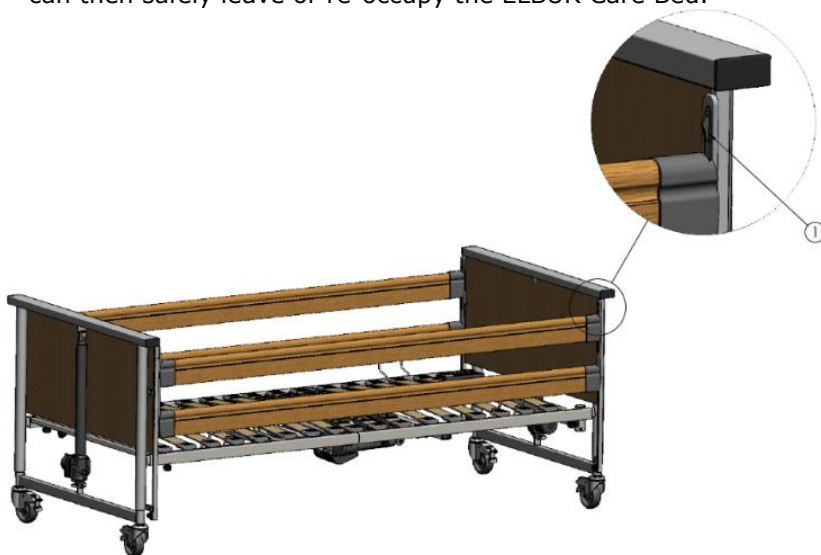
- Grasp the upper wooden slat at the head end and pull the entire set of Full-length Side Rails above the upper button level until they audibly engage at both ends and cannot be lowered without pressing the button.
- Always ensure that the Side Rails are properly secured in the upper position so they cannot be unintentionally released and that they are at the same height in relation to the mattress support platform.



- Repeat all these steps on the other side of the bed with the remaining two wooden slats from the set.

By following these steps, you can ensure that the ELBUR Full-length Side Rails are correctly assembled and securely installed, providing safety and stability for the patient.

3. Below described steps ensure the Side Rails are safely and properly lowered, allowing safe access to and from the bed.
  - Grasp the upper wooden slat (preferably by the recess) and lift it slightly upwards.
  - Simultaneously, press the release button (1) on one side of the Head or Foot Bed End.
  - The Side Rails will be released on the corresponding side and can be slowly lowered from their highest position to the stop at the very bottom.
  - Do not let them drop suddenly, as this may injure the patient or user, and also damage the side protections.
  - The Side Rails will be in a diagonal position, which is not stable. Repeat the same actions described above at the opposite end of the bed.
  - When the Side Rails are completely lowered and at their lowest point along the entire length of the Mattress Support Platform, the patient can then safely leave or re-occupy the ELBUR Care Bed.



### 6.3.2. Lifting Pole

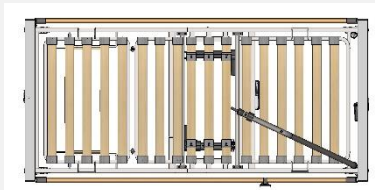
#### WARNING

- |   |   |
|---|---|
| ⚠ | <i>If a Lifting Pole is fitted on the Bed, increased attention must be taken during movement or lifting, to the space around the Lifting Pole, so that the equipment is not damaged. Do not use it to push or pull the Bed.</i> |
|---|---|

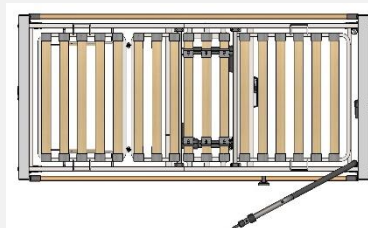
#### WARNING

- |   |  |
|---|--|
| ⚠ | <i>The Lifting Pole must not be fitted or swivelled with the top of the Lifting Pole beyond the edge of the Mattress Support Platform.</i> |
|---|--|

**RIGHT**



**WRONG**



- |   |   |
|---|---|
| ⚠ | <i>The maximum weight Lifting Pole can safely support is 80 kg – do not exceed it and do not hang other objects on the Lifting Pole and its parts.</i>  |
| ⚠ | <i>Never use more than one Lifting Pole on the ELBUR Nursing Bed.</i>   |
| ⚠ | <i>If the Lifting Pole will not locate steadily across the bar in the one of the vertical tube and still rotates, the Lifting Pole cutout or mounting bar can be damaged. In this situation or if any other sign of wear is found (e.g. Strap), remove the Lifting Pole from use immediately and contact your local distributor or Elbur Customer Service directly.</i> |
| ⚠ | <i>A qualified person must advise the user on correct use of the Lifting Pole and adjust the Strap to the correct length.</i>   |

#### ATTENTION

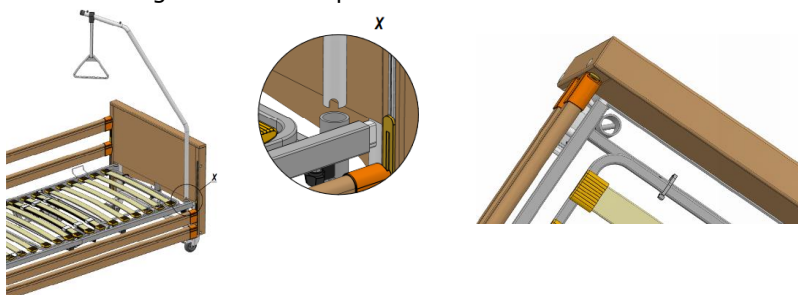
- |   |   |
|---|---|
| ⚠ | <i>The appropriate location of the Lifting Pole is determined by the horizontal pin inside the corner socket of the MSP Head End.</i> |
|---|---|

The Lifting Pole is supplied with an adjustable Strap and Triangle Handle. It is used to reposition the patient in Bed and to assist the user in getting out of Bed.

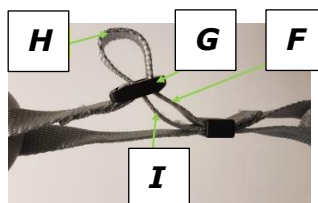
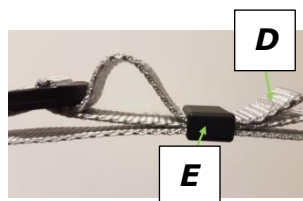
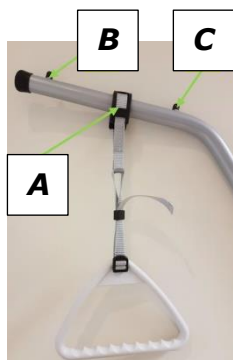
The Lifting Pole is ready to use after assembly described below:

1. There are two vertical tubes on either side at the Head End of Mattress Support Platform into which Lifting Pole fits.
2. The Lifting Pole has cutouts at the base which must locate across the bar, which is welded at the base of each vertical tube.
3. Insert the Lifting Pole vertically downwards into chosen vertical tube (it should be installed on the side, where patient gets out of the Bed) and lower it until it reaches the base of the vertical tube.

4. Position the top of Lifting Pole so that it is above the centre of ELBUR nursing Bed. Rotate the Lifting Pole from side to side until the cutout locates in the bar in the vertical tube. It should not be possible now to rotate the Lifting Pole. If it does rotate, lift the Lifting Pole up a little, then lower it again and attempt to locate the cutout on the bar.



5. Strap should be placed over the top of the Lifting Pole so its rubber pad (A) rests on the top of the Lifting Pole between two lugs (B and C) on the top of the horizontal part of the Lifting Pole.
6. To increase the length of the Strap, ease a short length of the loose end of the Strap (D) through the plastic retaining clip (E) [refer to pictures on the next page].
7. Push the Strap (F) through the buckle (G) until there is a small loop (H). Pull the other end of the Strap (I) back through the buckle [refer to pictures on the next page].
8. Repeat this operation until the Strap is the required length (to shorten the Strap length, reverse the procedure).
9. After adjusting the Strap, ensure it threaded as shown below.



### 6.3.3. Rastomats - adjustment of the Lower Leg Rest

#### WARNING

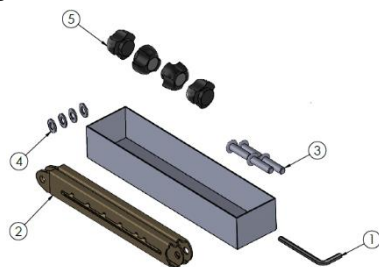


*Do not put your fingers between moving parts of the Mattress Support Platform – it can caused their entrapment and serious injuries!*

The Care bed ELBUR PB 325 can be equipped with two rastomats, which allow for the adjustment of the angle of the leg-raising section.

The rastomat is an additional accessory set for the bed. If you order a configuration that includes the rastomats, it will be delivered in a separate box containing:

- 2x rastomat,
- 4x M8x25 mushroom head screws
- 4x M8 plastic spacer washers
- 4x M8 knobs with nuts
- 1x 5mm Allen key.



These components facilitate the proper and easy installation of the rastomats, ensuring enhanced functionality for adjusting the leg section of the bed.

To simplify the assembly process, it is worth lowering the side rails for better access during the installation of the rastomats. Additionally, raise the leg rest using the handset and rotate this section manually as shown in the illustration below.



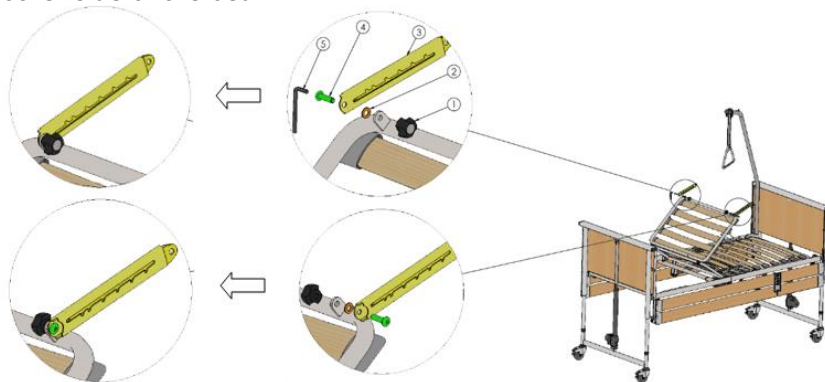
#### 1. Prepare the Rastomat:

- Fully extend the Rastomat before mounting it onto the bed.
- Pay attention to the orientation, ensuring the part with the ratchets is correctly positioned and will face the foot end of the bed.

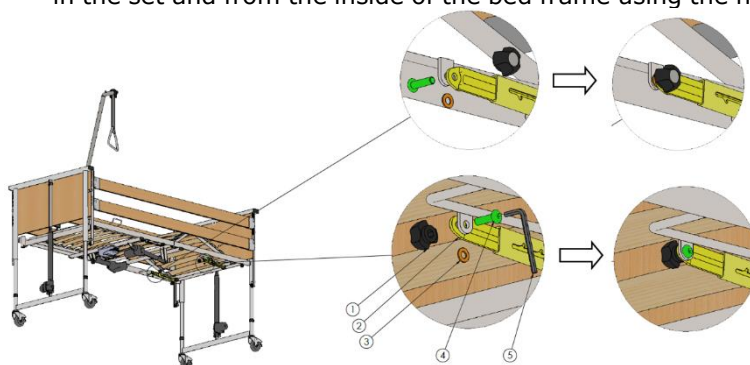
#### 2. Mounting the Rastomat on the leg rest section:

- Insert the provided screw through the hole in the rastomat.

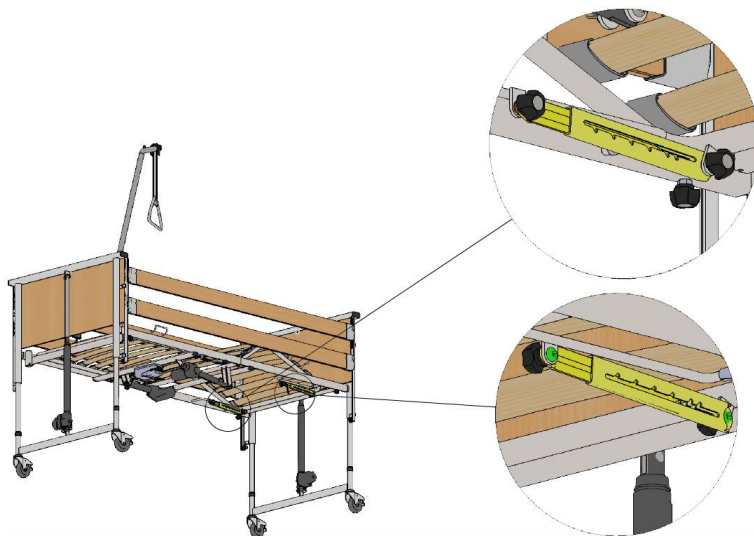
- Place the plastic washer on the protruding end of the screw from the outside of the bracket (between rastomat and bracket)
  - Then, insert the protruding end of the screw through the hole in the bracket located on the leg rest segment.
  - Secure the screw tightly from the outside with the allen key provided in the set and from the inside of the bed frame using the hand knob.
3. Repeat these steps to initial installation of the second Rastomat on the other side of the bed.



4. At this point, the leg rest should be turned to the starting position and raised.
5. Mounting the Rastomat on the MSP foot end frame:
- Insert the provided screw through the hole in the bracket welded to the bent rod of the bed frame at the foot end.
  - Place the plastic washer on the protruding end of the screw from the inside of the bracket (between bracket and rastomat)
  - Then, insert the protruding end of the screw through the hole in the rastomat.
  - Secure the screw tightly from the outside with the allen key provided in the set and from the inside of the bed frame using the hand knob.



6. By following the provided installation steps, the Rastomats will be securely installed and positioned correctly to allow for the desired adjustments, ensuring the bed's functionality and comfort.

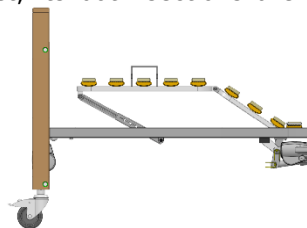


7. The image above shows two correctly installed Rastomats on both sides of the bed. These Rastomats enable both electric and manual adjustment of the leg rest section's tilt angle.

#### 7.1. **Electric adjustment of the Lower Leg Rest**

If the Leg Rest is raised using the Handset, its both sections are adjusted in that direction: Upper Leg Rest and Lower Leg Rest.

During lowering the Leg Rest using the Handset, the Lower Leg Rest Section locks into place in several intermediate positions of two Rastomats fitted underneath this part of MSP Foot End. If the Leg Rest would be raised again using the Handset, the Lower Leg Rest would remain in position.



#### 7.2. **Electric adjustment of the Lower Leg Rest**

In addition to electrical regulation, Lower Leg Rest Section can be also adjusted manually. However, firstly is needed to raise the Leg Rest Section using the Handset (the Leg Rest Actuator must be extended).

To raise the Lower Leg Rest manually then, grab one of its profile (preferably the end one – first from the side of the Bed End; not the mattress guides!), lift and pull it up until desired position is reached. The Lower Leg Rest blocks automatically in successive positions (at next notches of Rastomats).

In order to lower this part of the bed, it has to be raised first to its maximum extent (to release the Rastomats). It can be carefully lowered then to the flat position.



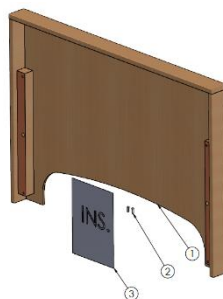
### 6.3.4. Bed-end wooden cover

The image shows the PB 325 long-term care bed equipped with bed-end wooden covers on both sides. This optional accessory is designed solely to enhance the visual appeal of the finished product. By nearly completely concealing the metal frame and lifting actuator, it ensures that the bed integrates seamlessly into a home environment while maintaining its functionality. The bed-end wooden cover can be assembled on just one or on both lift mechanisms, depending on customer preference.



1. Remove the wooden cover from its additional packaging and dispose of any remaining packaging materials.

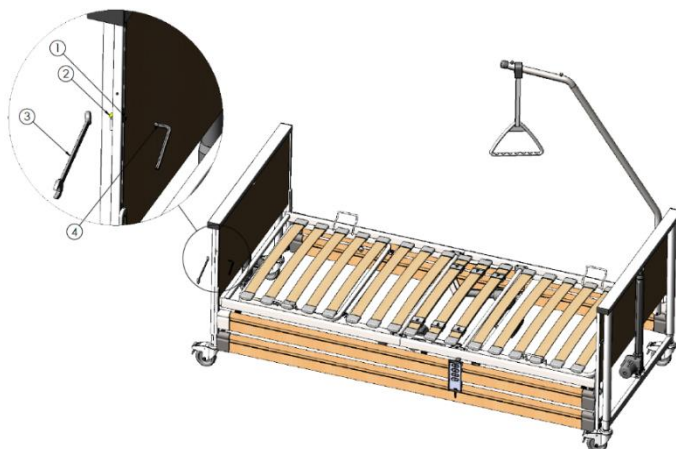
Release the full-length side rails to their lowest position to simplify the following assembly of the bed-end wooden covers.



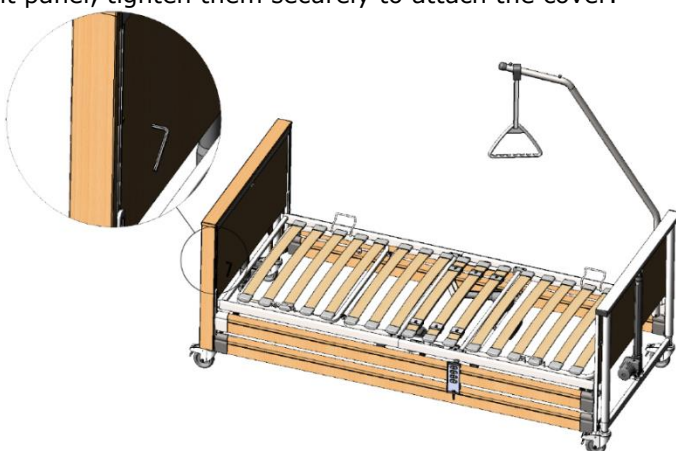
2. Using the hex key from the set and an additional 10mm wrench, loosen and remove the two M6 nuts without disassembling the wooden end panel (the screws should still hold the front panel in its originally mounted position).

This step ensures that the front panel remains in place while the M6 nuts are removed, preparing the bed for further adjustments or installations.

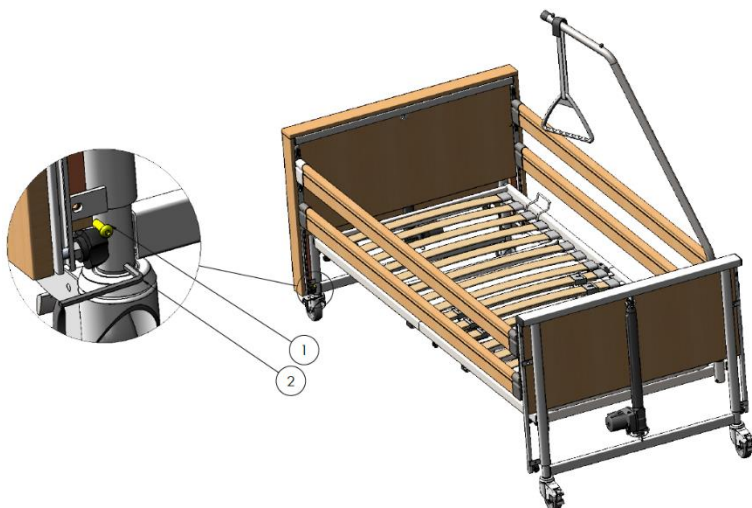




- 3.
- Place the cover from the top onto the profile of the front lift mechanism.
  - Adjust and fit it properly to ensure a snug fit.
  - Using the previously loosened M6 mushroom head screws left in the front panel, tighten them securely to attach the cover.






- 4.
- Next, secure the cover further by tightening two additional M6 mushroom head screws through the holes in the lower part of the steel rail.
  - This ensures that the cover is firmly attached to the front lift mechanism, providing additional stability.





This final step ensures that the bed-end wooden cover is securely mounted, enhancing the bed's appearance and ensuring the cover remains firmly in place.

## 7.0. Castors operating

### WARNING

	<i>Remember to lock all castors when the bed is in use, during assembly and disassembly, to prevent the bed from accidental displacement.</i>
	<i>Always engage the brakes when the bed is in its intended place of use or when patient is left unattended.</i>
	<i>The castors may become damaged, when the bed is moved along a rough, uneven or dirty surface. Good operation of the castors is influenced by their wear and contamination (water, oil).</i>

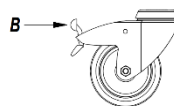
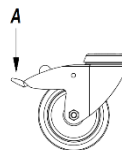
### ATTENTION

	<i>All castors must be accessible at all times when the bed is in use.</i>
	<i>Castors have to be directed (oriented) along the bed before they are locked when the bed is in use.</i>

ELBUR PB 325 with the standard scissor lift (total brake for each castor)

In the standard configuration, each of the four castors is equipped with a separate brake.

- 1) To apply the brake press down on the surface of the lower tilting lever downwards by foot as far as it goes (A), until it brakes the castor and locks in the 'down' position.
- 2) To release the brake press horizontally the surface of the top tilting lever backward by foot (B), until it springs back into the 'up' position - the castor is released.

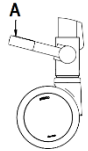


These castors are designed for use in an indoor environment and for travel on even, smooth and clean floors (e.g. ceramic floor tiles, linoleum, cast floors).

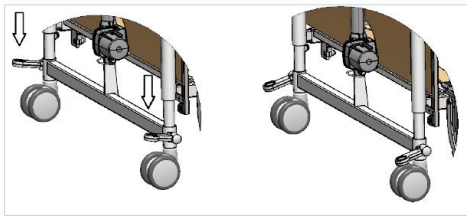
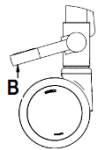
ELBUR PB 325 with the optional axional braking system

ELBUR PB 325 can be manufactured also with axional brakes, which means that pressing the foot brake lever allows to activate or deactivate locking system on both castors at the same time at the specific bed end.










- 1) To apply the brake press down on the surface of the lower tilting lever downwards by foot as far as it goes (A), until it brakes the castor and locks in the 'down' position.




- 2) To release the brake, use your foot to gently lever the surface of the top tilting lever backward (B) until it springs back into the 'up' position. This action will release the castor.

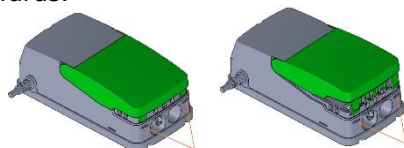


## 8.0. Plug assignment and cable routing

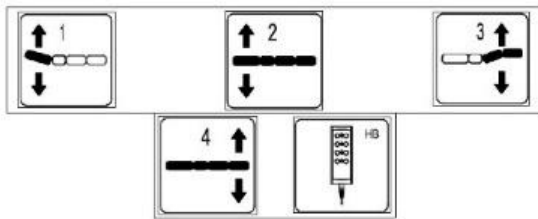
<b>WARNING</b>	
	<i>Inspect all wiring for damage and risk of crushing.</i>
	<i>Ensure that all cables (Power Mains Cable, Handset cable, Actuators cables) are not damaged by crushing, that there is no loop in the cables and that they do not get entrapped between the moving parts of the bed.</i>
	<i>Only the Power Supply Lead supplied with the Bed may be used. Connect it directly to an electrical outlet – do not use extension cords or multiple outlet extension cords.</i>
	<i>Electrical equipment can be hazardous if misused or wear. Do not open any electric components under no circumstances</i>
	<i>ELBUR Care Bed should be located in place which allow to remove easily mains plug from the socket.</i>
	<i>The electrical supply cable could create a trip hazard. Safely position and route the cable underneath the bed using its holders.</i>
	<i>Make sure that the power supply cord does not get squished under the castors.</i>
	<i>The Handset should be positioned to avoid strangulation risk. Make sure that Handset is placed properly, that it is not trapped between Side Rails and Mattress Support Platform/other furniture.</i>
	<i>The Bed must not be used if there is any visible damage to any of the drive system electric components.</i>

<b>ATTENTION</b>	
	<i>The control box remains attached to the bed while connecting the cables. In the following steps it is shown off the bed for clarity.</i>

- The control box CA20 has uniquely designed cable lid.
  - The lid also works as an integrated cable lock when closed.
  - To allow free access to the cables, the lid has a rest position when completely opened.
  - It is possible to remove the lid by lifting it a few degrees and pulling it away from the housing under tight mounting conditions. To simplify this process, press a flat screwdriver blade into the two slots to release the clips. Lift the cover at the front and hinge it backwards.



2. The control box has a silver label inside to help identify the channels into which to plug the actuator and handset cables.



- 1) CH1: Back rest actuator
- 2) CH2: Head Bed End lifting actuator
- 3) CH3: Leg rest actuator
- 4) CH4: FootBed End lifting actuator
- 5) HB: Handset

Please note that 3 angled motor cables are required for channel 1-3 and 1 straight motor cable for channel 4. Ensure the plugs are pushed into the sockets securely.












CA20 is equipped with a green LED for indication of mains power connected. When the CA20 is connected to mains, the LED lights green.



3.
  - The cables from the control box to the actuators are securely fastened to the Mattress Support Platform with cable ties. Do not cut or remove any of these cable ties. Route the cables to the control box from the nearest cable position.
  - Bring the cables out through the front of the control box and close the lid.
  - Ensure the clips securing the lid snap closed. If the lid does not close correctly, open it and push the plugs in fully, then close the lid again.
  - The power supply is permanently connected to the control box.

## 9.0. Bed positioning

<b>WARNING</b>	
	<i>The height adjustment of the Mattress Support Platform or the inclination of its sections may be changed only by persons trained in this field, aware of all limitations and potential risks.</i>
	<i>Patients should use the bed adjustment function on their own only if their physical and mental condition allows it and if they have been positively verified (assessed as competent to do so) in this regard by qualified medical personnel. They must then understand any safety instructions in this manual. Before start using the Handset, the operating staff must make the patient aware of its control functions.</i>
	<i>Make sure that in the place where the bed is intended for use there is enough space to operate it in the full height range – check that there are no obstacles around, above and under the bed (it must not be blocked by e.g. bedside cabinets, other equipment and accessories, window sills, etc.).</i>
	<i>The height of the Mattress Support Platform and the inclination of its segments should be adjusted in accordance with the intended use.</i>
	<i>Do not exceed the maximum duty cycle of 2 minutes. Observe a subsequent break of at least 18 minutes by all means.</i>
	<i>At the same time only one person can operate the bed. It is strictly prohibited to press all buttons simultaneously on the Handset.</i>
	<i>Do not lose or misplace the Handset and its locking key. Store them in a safe place, if necessary, out of reach of the patient.</i>
<b>ATTENTION</b>	
	<i>Some of the buttons may not respond when pressed. If this is the case, they are probably locked to be used only by medical staff due to the patient's state of health.</i>
	<i>Elbur sp. z o.o. sp.k. assumes no liability for unauthorized technical changes.</i>

To change the selected position of the ELBUR Care Bed it is necessary to use the Handset. Simply press and hold the appropriate button responsible for this function until the target setting is reached (one the front side of the Handset there are pictograms showing the individual functions). To stop or finish the movement, just release the button.

Depending on the version of ELBUR PB 325 Care Bed (primarily distinguished by the type of Bed Ends) there are different ranges of height adjustment for the Mattress Support Platform:

- a) Basic version: Height adjustment range of 40 ÷ 80 cm.
- b) Low version: Height adjustment range of 23 ÷ 63 cm.
- c) Low H version (with split side rails and axional braking system): Height adjustment range of 30 ÷ 70 cm.

Angle adjustment range is: 0-70° for the Back Rest Section, 0-35° for the Upper Leg Rest Section, 0-20° for the Lower Leg Rest Section and 0-12° for Comfort position.

The Handset has got mounting bracket on its rear panel. It allows to keep the Handset always in easily reachable position on the ELBUR Care Bed. A coiled cable allows the necessary freedom of movement while operating.

## 9.1. Comfort Handset

This type of Handset is standard equipment of the ELBUR Care Bed PB 325. It allows to adjust the height of the Mattress Support Platform, to change the inclination of the Back Rest section and Leg Rest section (only individually) and to achieve the Comfort position – head and torso are raised above the level of the patient's limbs.

The Comfort position (or anti-Trendelenburg) improves respiratory function for patients, but also facilitates daily care and reduces the risk of choking while eating meals and drinking.

In purpose of returning to the flat position, it is necessary just to press one of the buttons that are responsible for adjusting the height of the Mattress Support Platform ('row' no. 2 on the Handset).

### Comfort Handset (HLW074040)

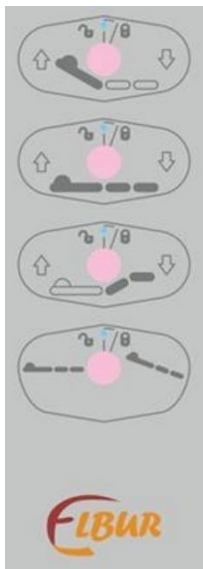
#### RAISING

raising the Back Rest section

raising the Mattress Support Platform height

raising the Leg Rest section

return to flat, horizontal position



#### LOWERING

lowering the Back Rest section

lowering the Mattress Support Platform height

lowering the Leg Rest section

Anti-Trendelenburg ('Comfort') position

## 9.2. Auto-contour Handset

The ELBUR Care Bed PB 325 can be also configured with the Standard Handset, which allows to adjust height of Mattress Support Platform and angle of the Back Rest and Leg Rest sections, either individually or together (auto contour), within a predetermined range.

\*The Auto-Contour function allows for the parallel adjustment of the inclination changes of the Back Rest and Leg Rest sections in order to achieve a comfortable sitting position.

### Auto-contour Handset (HLW074-026)

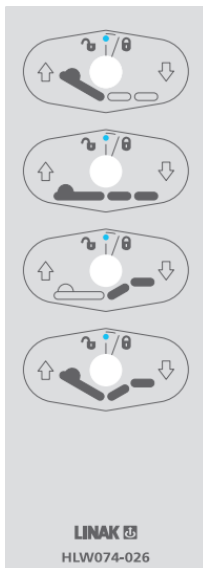
#### RAISING

raising the Back Rest section

raising the Mattress Support Platform height

raising the Leg Rest section

raising the Back Rest and Leg Rest section together at the same time (parallel adjustment of two sections)



#### LOWERING

lowering the Back Rest section

lowering the Mattress Support Platform height

lowering the Leg Rest section

lowering the Back Rest and Leg Rest section together at the same time (parallel adjustment of two sections)

## 9.3. Trendelenburg Handset

### WARNING



*The Trendelenburg position is only to be used on the orders of a doctor or medical staff if the clinical condition of the patient makes this necessary. Setting the Trendelenburg position unintentionally or for no reason can endanger the Patient.*

The models of ELBUR Care Beds described in this manual can also be ordered in a configuration with the Trendelenburg Handset (HLW074-008), which has got a button that allows to enable the reverse-Trendelenburg position (the same like Comfort Handset) and also another one for reaching the Trendelenburg position – patient is laying on his back then in such a way that the head and torso are lower than the legs.





In purpose of returning to the flat position, it is necessary just to press one of the buttons that are responsible for adjusting the height of the Mattress Support Platform ('row' no. 2 on the Handset).

## 9.4. Locking individual functions on the handset

In order to prevent unintentional changes of Mattress Support Platform height or angle of its segments, individual functions may be locked and inaccessible for the patient. The Blue Locking Key (added to each delivery of the ELBUR Care Bed) allows to turn on or off respective functions on the Handset.



To disable a specific function of the Handset, insert the Blue Locking Key into the Lock / Unlock small dial between two adjustment buttons.

Rotate the Blue Locking Key clockwise – the indicator changes then from Green (Unlocked) to Yellow (Locked). Then, bed user or patient is not able to change a particular position.




If you turn the Handset Locking Key anti-clockwise, the indicator in the middle turns green, what means that the button is 'Unlocked' and function has been engaged again.


Green Indicator – Function Unlocked

Yellow Indicator – Function Locked



## 10.0. Emergency lowering of the back rest

<b>WARNING</b>	
	<i>Emergency lowering of the Back Rest should be carried out by at least two people.</i>
	<i>Disregarding of these safety guidelines may lead to serious injuries for the user and the patient – back injuries and danger of hands squeezing.</i>
	<i>All functions must be tested and approved after emergency situation by a competent person.</i>

<b>ATTENTION</b>	
	<i>It is recommended to perform practice emergency lowering of the Back Rest under normal conditions so that in case of an emergency situation you will be able to react quickly and properly.</i>

In an emergency situation, when mains voltage has been interrupted or failure of the drive system, the Back Rest must be lowered manually to a completely flat position. In such a case, the Back Rest Actuator should be disassembled by pulling the quick-release bolt from the mounting brackets under the Mattress Support Platform.

Emergency lowering of the Back Rest has to be done in the following order:





- 1) Disconnect the Power Supply Lead from the mains supply,

- 2) Ease the load on the Back Rest,
- 3) One user has to lift the Back Rest slightly and holds it in this position,
- 4) At this time another person has to open securing retainer and pull the quick-release bolt out of the hole in the mounting bracket under the Mattress Support Platform from the Head End (the Back Rest Actuator should be disassembled on the side opposite to its housing).
- 5) Then, first person can carefully lower the Back Rest to the flat position.



- 6) To restore the bed back to its normal operating state and condition of use, previously unfastened side of the Back Rest Actuator has to be installed again in the same way as it was done at the time of the original assembly of the drive unit – insert the quick-release bolt through the Back Rest Actuator and mounting bracket under the Head End section of the Mattress Support Platform and secure its retainer (see subclause 7.3.).

## 11.0. Moving and repositioning

<b>WARNING</b>	
	<i>This bed is not adapted for patient's transport, but it can be moved within patient room for cleaning or patient access. Remember to unplug the Power Supply Lead before relocating the bed and make sure it will not be rolled over or damaged in other way.</i>
	<i>ELBUR Care Bed with a patient may only be moved in an emergency situation. This activity should be then performed by two people due to force the propulsion, but above all to ensure necessary safety. Patient has to stay in flat position and Care Bed should be adjusted in the lowest height.</i>
	<i>Do not move the bed when the Power supply lead is plugged in to the mains supply socket.</i>
	<i>All functions must be tested and approved after moving or repositioning by a competent person.</i>





Before moving the Bed to a different location follow safety rules indicated below:


- 1) Ensure the Mattress Support Platform is at its lowest, flat and horizontal position.
- 2) Disconnect the Power Supply Lead plug from the mains supply and secure it against being crushed or dragged over the floor.
- 3) Ensure that Side Rails are latched in the upper position.
- 4) Secure the Handset, Power supply lead and all cables against any damage.
- 5) Unlock the castors brakes and move the Bed.

After moving the bed to a new position, lock all castors, visually check the Mains power cable and if everything is fine, plug it in to a separate socket. Always make sure it is mounted and routed in such a way that it will not be rolled over or strained during the operation of the bed.

At the end it is necessary to perform the full functionality check described in the next chapter.

## 12.0. Functionality Check

<b>WARNING</b>	
	<i>Functionality check must be carried out by suitably trained and qualified personnel, knowledgeable in handling the bed, after assembly and before putting it into operation.</i>
	<i>Functionality check must not be carried out with the bed occupied.</i>
	<i>The Power supply lead should be plugged into the separate socket during tests and use.</i>
	<i>Position the Bed where is enough space for operating it through its full height range without any chance of blocking or entrapment – check for obstructions around, above and below the bed frame (it cannot be stopped by any obstacles as bedside lockers or windowsills).</i>

<b>ATTENTION</b>	
	<i>Check all cable ties have been removed (there is one cable tie for attaching Back Rest to MSP Head Section and one cable tie for attaching Leg Rest Section to MSP Leg Section for transport).</i>






- 1) Check all bolts, nuts, screws and other fasteners are present and correctly tightened.
- 2) Examine all cables for risk of crushing or deterioration – ensure that they cannot be damaged or overstretched.
- 3) Plug the Power supply lead into a mains supply socket and carry out a full test of all electrical bed positioning functions using the Handset:
  - raise the Bed to the full height and then lower the Bed until it stops,
  - raise and the lower the Back Rest to its end positions,
  - raise and then lower the Leg Rest to its end positions,
  - check the Trendelenburg or anti-Trendelenburg position depends on the Handset in use.



There should be no strange noises from drive units when adjusting the height of the Mattress Support Platform or the inclination of its sections. The adjustment should go seamlessly and in accordance to markings on the front side of the handset, indicating specific functions.

Check also the appropriate operation of two rastomats (telescopic fitting assembled in the Foot End for manual adjustment of the Lower Leg Rest – it is not included in the standard configuration). Check the correct function of the castors and their brakes.

- 4) Check that Side Rails on both ends of the bed are at the same level and are firmly assembled, secured. Check their safe operation and make sure they are locked in appropriate way when they are in the upper position. Ensure they work properly on each side of the bed.
- 5) Check the appropriate work of the Lifting Pole:
  - make sure the Lifting Pole does not rotate from side to side.
  - ensure the top of the Lifting Pole is over the centre line of the bed.
  - make sure that the rubber pad on the Lifting Pole Strap is located between the lugs on the top of the Lifting Pole.
  - inspect the Strap for any damage or fraying.
  - ensure the Strap buckle is secured correctly.
- 6) Check all other bed accessories, paying particular attention to their fasteners and moving parts.

## 13.0. Cleaning and Disinfection

<b>WARNING</b>	
	<i>The bed must be cleaned and disinfected before it is re-used by another patient or in any other situation that requires it.</i>
	<i>Before beginning the cleaning and disinfection procedure, disconnect the power supply lead from the power socket.</i>
	<i>Never use scouring agents, abrasive cleaning agents, corrosive, caustics, strong acids, detergents containing highly concentrated alcohol, phenol-based disinfectant solutions or other materials that could damage the coating and the surface of the bed parts and alter the structure of behaviour of the wooden or plastic components.</i>
	<i>The Bed must not be cleaned in automatic bed washer or with high-pressure or steam cleaner, as liquid penetrates into the electrical components could result malfunctions and danger. Protect those components from moisture.</i>
	<i>All functions must be tested and approved after cleaning or disinfection actions by a trained and qualified personnel. On any suspicion of the intrusion of moisture into the electrical components, disconnect the mains plug immediately and do not re-establish the connection. Put the bed out of operation immediately, attach an appropriate visible warning label and contact the manufacturer.</i>





<b>ATTENTION</b>	
	<i>Elbur cannot be liable for any damage or risk of damage if inappropriate cleaning or disinfectant agents are used.</i>
	<i>Observing the instructions described in this chapter will retain the usability of the ELBUR Nursing Bed for a long time to come and will keep its nice appearance.</i>

Cleaning and disinfecting procedure:

- 1) Empty the nursing bed - remove the mattress and all easily detachable accessories.
- 2) Adjust the Mattress Support Platform to the highest position and adjust the position of the Back Rest and Leg Rest to provide access for cleaning all parts of the frame sections.
- 3) Disconnect the bed from the mains supply.
- 4) Lock all bed castors.
- 5) Clean / disinfect the bed by wiping all rigid parts with a soft, damp cloth (not drenched) with a mild household disinfectant, suitable for varnishes and synthetics (only gentle, not aggressive agents should be used in order to maintain the material resistance).

Before start using the bed again, carefully check the power cord plug and all electrical components for residual moisture or any other damage or risks.

## 14.0. Disassembly




<b>WARNING</b>	
	<i>Disassembly must be carried out by suitably trained and qualified personnel in an uncluttered area. Children and pets should be kept away.</i>
	<i>Do not move the bed when the Power Supply Lead is plugged in to the Mains supply socket.</i>
	<i>If the bed has become soiled or contaminated during use refer to cleaning and disinfection instructions before perform dismantling process.</i>
	<i>Extreme caution must be taken when moving the bed on the TLSU Transport Bracket to prevent the Bed from tipping over or moving unexpectedly.</i>

- 1) Remove all accessories and easily detachable equipment installed on the bed (Lifting Pole, Side Rails, mattress) and put them on side or pack into separate carton boxes.
- 2) Lower the Mattress Support Platform to its lowest, horizontal position.
- 3) Lower the Back Rest and Leg Rest to their flat positions and attach cable ties to secure them to the MSP Head and Foot Ends accordingly.
- 4) Unplug the Power supply lead from the mains supply.
- 5) Disconnect the actuator cables from the Hi-Li Main Lifting actuators at either Bed end.
- 6) Carefully turn the bed on to its side.
- 7) Disconnect the cable from the leg rest actuator.


- 8) Partly disassemble the legrest actuator and backrest actuator, pivot them to the transport position and secure them to the mattress support platform with cable ties.
- 9) Carefully turn the bed upright.
- 10) Dismantle the bed end from the mattress support platform foot end.
- 11) Dismantle the Bed end from the Mattress Support Platform Head dn.
- 12) Lock the castor brakes.
- 13) Insert the Bed ends into the TLSU Transport brackets and tighten the hand knobs.
- 14) Lift the MSP foot end onto the transport bracket.
- 15) Lift the mattress platform head end onto the transport bracket.
- 16) Unlock the castors.
- 17) If not in use, the ELBUR Care Bed should be stored in clean, dry and well-ventilated location - protect the disassembled Bed from mould, rust or other destruction under external influences before re-use. Wrap the bed and its accessories so that the coating and all components are not damaged. Technical specifications presented in the first chapter for each bed model contain guidance of operating and storage conditions.

## 15.0. Troubleshooting

### WARNING

	<i>Minor defects and problems may be solved by properly trained and qualified personnel – however you should never repair the ELBUR Care bed yourself, without having the appropriate knowledge and experience in its operation.</i>
	<i>Do not attempt to open, repair or modify any electrical parts under no circumstances. It could be fatal!</i>
	<i>All functions must be tested and approved by a competent person after troubleshooting.</i>










### ATTENTION

	<i>Even when the ELBUR Care Bed is used properly, technical problems may occur. In this case, always contact your distributor or Elbur Customer Service.</i>
--	--

DEFECT	POSSIBLE CAUSES	SOLUTION
Adjustment functions are not active (operator cannot adjust height or angle of Mattress Support Platform sections)	The Power supply lead is not plugged into the mains supply or is not plugged into the Control Box	Plug in the Mains power cable
	The Actuator cables are not correctly plugged in at both the Actuator and the Control Box or the	Check the plug-in connection in Actuators and Control Box

DEFECT	POSSIBLE CAUSES	SOLUTION
	Handset is not plugged into the Control Box	
	Adjustments functions are locked on the Handset	Unlock an appropriate function
	No voltage in the socket	Check the mains socket or fuse box (electrician!)
	The operating time or Safe Working Load exceeded	Reduce the load, follow the instructions from this manual and values on labelling, allow the drive system to cool down
	Actuators or Control Box or Handset defective	Notify the operator or Elbur Customer Service
Actuators stopped suddenly during adjustment	The operating time or Safe Working Load exceeded	Reduce the load, follow the instructions from this manual and values on labelling, allow the drive system to cool down
	Obstacles in the adjustment range	Remove all items, obstacles which interfere with the adjustment functions
Individual Actuators run in one direction only	Actuator, Control Box or Handset defective	Notify the operator or Elbur Customer Service
Opposite functions when operating the Handset	Mixed cables connection in the Control Box	Check the plug-in connection in the Control Box, follow the instructions from this manual and the label on the Control Box or notify the Elbur Customer Service
Castor does not rotate or swivel	Brake applied	Release the brake
	Castors unclean	Clean castors, remove all obstacles
	Castors damaged	Notify the operator or Elbur Customer Service
Lower leg rest does not adjust	Telescopic fittings damaged	Notify the operator or Elbur Customer Service

## 16.0. Maintenance

<b>WARNING</b>	
	<i>Maintenance must be carried out only by or under supervision of suitably trained and qualified personnel or professional persons such as electricians or electro-technically instructed persons who are knowledgeable of the relevant regulations and are able to recognize possible risks and hazards. Failure to do so may result in serious injury or in inappropriate and dangerous operation of the product.</i>
	<i>ELBUR Care Bed must be checked and serviced on regular base, once yearly as a minimum, before every re-use and after every repair.</i>
	<i>More frequent inspections should be carried out when the product is subjected to heavy use or aggressive environments, or where is required by local regulations.</i>
	<i>Failure to carry out periodic checks, or continuing to use the product if a fault is found, may compromise the safety of both the patient and user. Preventive maintenance can help to prevent any accidents.</i>
	<i>ELBUR Care Bed must not be serviced or repaired while it is occupied by the patient or the person performing the maintenance.</i>
	<i>All functions must be tested and approved after service actions by a competent, suitably trained and qualified personnel.</i>
	<i>If any damage, performance issue or cause for concern is noted during the inspection, the bed should be immediately withdrawn from use and marked as out of service. The identified problems should be communicated to the local distributor or Elbur company directly.</i>
<b>ATTENTION</b>	
	<i>When it is necessary service technicians will receive circuit diagrams, parts list with description, calibration instructions and other needed information from the manufacturer</i>
	<i>Elbur sp. z o.o. sp.k. is not liable for damage caused by the lack of or improper service.</i>

Medical devices must be inspected regularly in terms of safety according to the requirements specified by the manufacturer and the relevant technical standards. Such service inspections facilitate the maintenance of the highest possible level of safety, prevent a potential risk of component wear and deterioration of product operating parameters, and the ELBUR Care Beds to remain trouble-free for years.

In order to ensure the safe use of ELBUR Care Beds and to extend their lifetime while maintaining the basic functionality, the company *Elbur sp. z o.o. sp.k.* as the manufacturer, specifies an technical inspection interval, which should be executed at least once annually, before passing on to a new user and after every repair.

Also, daily visual inspection by a competent person is strongly recommended. The first part of the Inspection Protocol provided on the following pages addresses this type of test.



**Inspection Protocol for ELBUR Care Beds**

 (Form Number: PSF-08.9-02 ; date of issue: 31.03.2022)

<b>Customer Name / Medical Facility</b>			
<b>Address</b>			
<b>Model designation</b>	ELBUR PB _____		
<b>Reference Number</b>			
<b>Serial Number</b>			
<b>Electrical appliance class</b>	I <input type="checkbox"/>	II <input type="checkbox"/>	
<b>Date of manufacture</b>			
<b>Manufacturer</b>	Elbur sp. z o.o. sp.k.		
<b>Type of inspection</b>	First Inspection <input type="checkbox"/>	Planned Preventive Maintenance <input type="checkbox"/>	Repair Service <input type="checkbox"/>
<b>Testing equipment (name, type, SN)</b>			

<b>1. Visual Inspection</b>				
<b>No.</b>	<b>Description</b>	<b>YES</b>	<b>NO</b>	<b>N/A</b>
1.	Are the Name Plate and all Warning/Information labels present, readable and easy to understand?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.	Is the Instruction for Use available?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.	Are the Maximum Patient Weight and Safe Working Load observed and not exceeded?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.	Are the Mattress Support Platform, Back Rest and Leg Rest sections, Bed Ends / Scissor Lift, Side Rails and accessories (e.g. Lifting Pole, Bed Lever) in the perfect condition (without any signs of damage, deformation or wear)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5.	Is the powder coating of metal parts without any scratches or damage? Is welding without any cracks, craters, splatter? Are all sharp edges deburred?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6.	Are all fasteners, fittings, fixtures, nuts, bolts etc. tight, secure and durable as appropriate?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7.	Are all plastic end caps complete and without any signs of damage or wear?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.	Is the Mattress Support Platform secured tightly to the Bed Ends / End Boards using plastic headed thumb screws, clamping levers or grub screws?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9.	Is screw connection for Mattress Support Platform Head End and Foot End appropriate and safe?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10.	Is the Mattress Support Platform base (wooden / metal) without any objections and signs of damage? Is it stable, complete and well-assembled? Are MSP sections (Back Rest and Leg Rest) fitted and adjusted properly in the safe manner?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11.	Are castors without any sign of damage, wear or contamination?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12.	Are the Power Supply Lead and all other electrical cables secured, connected correctly (fully inserted to appropriate slots/sockets) and routed to prevent damage by pinching or crushing, especially between moving parts?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13.	Are all cables secured against accidental damage, non-intended running over, wringing and bringing out?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>


<b>1. Visual Inspection</b>				
<b>No.</b>	<b>Description</b>	<b>YES</b>	<b>NO</b>	<b>N/A</b>
14.	Does the Power Supply Lead or Handset show any sign of damage or wear?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15.	Are markings on the Handset easy to understand and readable?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16.	Are Control Box with Back Rest Actuator and Leg Rest Actuator installed in the right direction, according to instructions in this manual and label underneath the Mattress Support Platform?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17.	Are all Actuators mechanically secured in appropriate way with quick-release bolts or with bolts and clips?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18.	Are housings of Control Box, Handset and Actuators sealed and without any sign of damage?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
19.	Are wooden components (End Boards, Side Rails) in the perfect condition and without any sign of damage, wear?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20.	Is the Lifting Pole properly located and securely fixed?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21.	Is the Triangle Handle place between its moving lugs and is the Strap without any sign of wear?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22.	Is the Bed Lever assembled in the fitted zone indicated in the accessory instruction manual?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
23.	Are there any other signs of damage or excessive wear?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
24.	Is the area around, above and below the bed clear of possible obstruction?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

<b>2. Performance check</b>				
<b>No.</b>	<b>Description</b>	<b>YES</b>	<b>NO</b>	<b>N/A</b>
1.	Is it possible to operate the ELBUR Care Bed as per its intended purpose without unexpected noises or movements?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.	Are all electrical positioning functions, available to achieve using the Handset, working properly?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.	Can the bed be adjusted within the specified range (height of MSP and inclination of its sections) indicated in this instruction manual, without any obstacles?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

<b>2. Performance check</b>				
<b>No.</b>	<b>Description</b>	<b>YES</b>	<b>NO</b>	<b>N/A</b>
4.	Is it possible to lock/unlock individual functions on the Handset with a special Locking Key?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5.	Are drive units working properly (allow the smooth operation without any abnormal noises)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6.	Are the Mattress Support Platform and Bed Ends mechanically sound i.e. without any cracking at welds during position adjustment?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7.	Is it possible to perform quick lowering of the Back Rest in the emergency situation?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.	Is it possible to adjust the Lower Leg Rest smoothly and safely, either electrically and manually (lock/unlock of two rastomats in several positions)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9.	Are castors operating correctly, including the brakes?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10.	Is there any risk of entrapment or other injury of the bed user?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11.	Are the Side Rails without any sign of damage, breakage or wear?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12.	Is set of Side Rails appropriately assembled and firmly seated in accordance to its instructions? Are they operating smoothly and in the safe manner? Is it simple to release Side Rails and lock them in the upper position safely?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13.	Is the difference between Side Rails, and between lower Side Rail and the Mattress Support Platform, less than 12 cm?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14.	Is the distance between Side Rails and Bed Head less than 6 cm, and between divided Side Rails less than 6 cm, and between Side Rails and Bed Foot End less than 6 cm or greater than 32 cm?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15.	Is the mattress fitted correctly without any unacceptable gaps?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16.	Is the distance between top of the mattress and the top edge of the top Side Rail at least 22 cm?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17.	Are all accessories fitted in line with the accessory manufacturer instructions and is their using safe?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

3. Electric measurements (according to current EN 62353 standard)				
No.	Description	YES	NO	N/A
1.	Protective earth resistance: measured value less than or equal to 0,3 $\Omega$ $R \leq 300\text{ m}\Omega$ (applied only for Class I ME Equipment) Result:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.	Device leakage current: Direct method (for Class I ME Equipment): measured value less than or equal to 0,5 mA $I \leq 500\text{ }\mu\text{A}$ Result:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Direct method (for Class II ME Equipment): measured value less than or equal to 0,1 mA $I \leq 100\text{ }\mu\text{A}$ Result:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.	Insulation resistance (for Class II ME Equipment): measured value greater than or equal to 7 M $\Omega$ $R \geq 7\text{ M}\Omega$ Result:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>


Evaluation				
Results of Inspection		Date of inspection	Inspected by	Signature
<input type="checkbox"/> PASS	<input type="checkbox"/> FAIL			
In the event the Inspection result did not pass and ELBUR Care Bed did not meet the safety requirements			<input type="checkbox"/> Repair	
			<input type="checkbox"/> Take out of use	
			<input type="checkbox"/> N/A	
Additional comments / Description of defects (if applicable)				
Next Inspection Date				

ATTENTION	
	<i>Elbur provides the Inspection Protocol for ELBUR Care Beds in every Instruction for Use. It can also be downloaded from our website: <a href="http://www.elbur.eu">www.elbur.eu</a>. The Inspection Protocol should be kept on file and serves as evidence report of the performed service.</i>

## 17.0. Electromagnetic Compatibility statement

Guidance and manufacturer's declaration – Electromagnetic emissions		
The ELBUR Care Bed is intended for use in the electromagnetic environment specified below. The customer or the user of the bed should assure that it is used in such an environment.		
Emission test	Compliance	Electromagnetic environment - guidance
RF emissions CISPR 11 (partly)	Group 1	The ELBUR Care Bed uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
RF emissions CISPR 11 (partly)	Class B	
Harmonic emissions IEC 61000-3-2	Class A	
Voltage fluctuations / flicker emissions IEC 61000-3-3	Complies	

Guidance and manufacturer's declaration - Electromagnetic immunity			
The ELBUR Care Bed is intended for use in the electromagnetic environment specified below. The customer or the user of the bed should assure that it is used in such environment.			
Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment-guidance
Electrostatic discharge (ESD)  IEC 61000-4-2	± 6 kV contact  ±8 kV air	± 6 kV contact  ±8 kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%.
Electrical fast transient / burst  IEC 61000-4-4	± 2kV for power supply lines  ±1kV for input/output lines	± 2kV for power supply lines  Not applicable	Mains power quality should be that of a typical commercial or hospital environment.
Surge IEC 61000-4-5	±1 kV line(s) to line(s)  ±2 kV line(s) to earth	±1 kV differential mode  Not applicable	Mains power quality should be that of a typical commercial or hospital environment.
Voltage Dips, short interruptions and voltage variations on power supply Input lines IEC 61000-4-11	<5% $U_T$ (>95% dip in $U_T$ ) for 0,5 cycle 40% $U_T$ (60% dip in $U_T$ ) for 5 cycles 70% $U_T$ (30% dip in $U_T$ ) for 25 cycles <5% $U_T$ (>95% dip in $U_T$ ) for 5 sec	<5% $U_T$ (>95% dip in $U_T$ ) for 0,5 cycle 40% $U_T$ (60% dip in $U_T$ ) for 5 cycles 70% $U_T$ (30% dip in $U_T$ ) for 25 cycles <5% $U_T$ (>95% dip in $U_T$ ) for 5 sec	Mains power quality should be that of a typical commercial or hospital environment. If the user of the ELBUR Care Bed requires continued operation during power mains interruptions, it is recommended that the bed be powered from an uninterruptible power supply.
Power frequency (50, 60 Hz) magnetic field  IEC 61000-4-8	3 A/m	3 A/m	The bed power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.
Note: $U_T$ is the a.c. mains voltage prior to application of the test level.			

<b>Guidance and manufacturer's declaration - Electromagnetic immunity</b>			
The ELBUR Care Bed is intended for use in the electromagnetic environment specified below. The customer or the user of the bed should assure that it is used in such environment.			
<b>Immunity test</b>	<b>IEC 60601 test level</b>	<b>Compliance level</b>	<b>Electromagnetic environment-guidance</b>
Conducted RF IEC 61000-4-6  Radiated RF IEC 61000-4-3	3 V rms 150 kHz to 80 MHz  3 V/m 80 MHz to 2,5 GHz	3 V  3 V/m	<p>Portable and mobile RF communications equipment should be used no closer to any part of the ELBUR Care Bed including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter.</p> <p>Recommended separations distance:</p> $d = 1,2\sqrt{P} \quad 150 \text{ kHz to } 80 \text{ MHz}$ $d = 1,2\sqrt{P} \quad 80 \text{ MHz to } 800 \text{ MHz}$ $d = 2,3\sqrt{P} \quad 800 \text{ MHz to } 2,5 \text{ GHz}$ <p>where 'P' is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and 'd' is the recommended separation distance in metres (m).</p> <p>Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey, 'a' should be less than the compliance level in each frequency range 'b'.</p> <p>Interference may occur in the vicinity of equipment marked with the following symbol:</p> 
Note 1: At 80 MHz and 800 MHz, the higher frequency range applies. Note 2: These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.			
a	Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the ELBUR Care Bed is used exceeds the applicable RF compliance level above, the ELBUR Care Bed should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocating the ELBUR Care Bed.		
b	Over the frequency range 150 kHz to 80MHz, field strengths should be less than 3 V/m		

### Recommended separation distance between portable and mobile RF communications equipment and the ELBUR Care Bed

The ELBUR Care Bed is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled.

The customer or the user of the ELBUR Care Bed can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the ELBUR Care Bed as recommended below, according to the maximum output power of the communications equipment.

Rated maximum output power of transmitter [W]	Separation distance according to frequency of transmitter [m]		
	150 kHz to 80 MHz $d = 1,2\sqrt{P}$	80 MHz to 800 MHz $d = 1,2\sqrt{P}$	800 MHz to 2,5 GHz $d = 2,3\sqrt{P}$
0,01	0,12	0,12	0,23
0,1	0,38	0,38	0,73
1	1,20	1,20	2,30
10	3,79	3,79	7,27
100	12,00	12,00	23,00

For transmitters rated at a maximum output power not listed above, the recommended separation distance 'd' in metres (m) can be estimated using the equation applicable to the frequency of the transmitter, where 'P' is the maximum output power rating of the transmitter in Watts (W) according to the transmitter manufacturer.

Note 1: At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.

Note 2: These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

### CAUTION



*For reasons of safety and electromagnetic compatibility, use only original electric components from Elbur that have been released for the ELBUR Care Bed model in order. The use of non-approved accessories may result in loss of bed functionality, increased emissions or reduced immunity of the equipment.*

*It is still possible that the operation performance is influenced by electromagnetic fields like those of cell phones, power generators of high power energy sources, despite sample representing family products of ELBUR Care Bed was tested on electromagnetic compatibility and complied to the requirements of EN 60601-1-2 standard.*



*On the other hand, it is also possible that the electronics of the bed can influence other electronic devices.*



*When this bed is used adjacent to other electronic devices, the user should observe that equipment to verify its normal operation.*





## 18.0. Disposal

<b>ATTENTION</b>	
	<i>If the ELBUR Care Bed is to be scrapped, the synthetic and metallic parts are to be separated and disposed of properly. The operator must ensure that all components of the Bed are to be disposed of are not contaminated.</i>
	<i>Contact Elbur Customer Service or your local authority for advice on proper disposal.</i>

ELBUR Care Bed is made of metal, wooden and plastic components, contains also electronic parts and electric cables. In the event of the disposal of materials from the bed, end-of-life parts must be disposed of in accordance with current, local environmental legislation.

ELBUR Care Beds are classified as industrial electrical equipment (type b2b) in accordance with the WEEE Directive 2012/19/EC. All replaced electrical and electronic components of the electrical adjustment system must be treated as electric scrap and properly disposed according to the above-mentioned directive.

## 19.0. Warranty

<b>CAUTION</b>	
	<i>Damage to your product caused by improper use or lack of maintenance will cause the warranty to laps.</i>
	<i>Unauthorised technical changes to the product voids all warranty claims.</i>

The manufacturer gives a guarantee of 36 months for a perfect functioning ELBUR Care Bed. It is based normal, intended use and maintenance as described in this manual.





A demonstration video, aimed at visualizing the assembly information presented in the user manual, is available on our website at [www.elbur.eu](http://www.elbur.eu) under the Downloads section.



**Elbur sp. z o.o. sp.k.**  
**Działosza 34,**  
**56-500 Syców, POLAND**

**Tel.: + 48 62 786 97 80**  
**E-mail: [info@elbur.eu](mailto:info@elbur.eu)**  
**[www.elbur.eu](http://www.elbur.eu)**

**TF-22.5-02.EN**  
**06.2024**