

## Instructions for Use and Technical Description



### ELEGANZA 1 LE

Hospital bed for standard care



D9U001GTL-0101

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**Eleganza 1 LE**

Hospital bed for standard care

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Related links: [www.linnet.cz](http://www.linnet.cz)

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# 1 Symbols and Definitions

## 1.1 Warning Notices

### 1.1.1 Types of Warning Notices

Warning notices are differentiated by the type of danger using the following key words:

- ▶ **CAUTION** - risk of material damage.
- ▶ **WARNING** - risk of physical injury.
- ▶ **DANGER** - risk of fatal injury.

### 1.1.2 Structure of Warning Notices



**SIGNAL WORDS!**

Type and source of danger!

- ▶ Measures to avoid the danger.

## 1.2 Instructions

Structure of instructions:

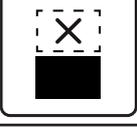
- ▶ Perform this step.
- Results, if necessary.

## 1.3 Lists

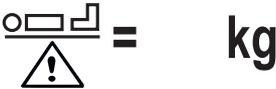
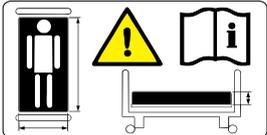
Structure of bulleted lists:

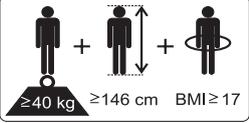
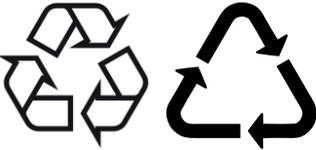
- List level 1
  - List level 2
    - List level 3

## 1.4 Symbols on the Package

	FRAGILE, HANDLE WITH CARE
	THIS WAY UP
	KEEP DRY (PROTECT FROM HUMIDITY)
	PAPER RECYCLING SYMBOL
	DO NOT USE HAND TRUCK HERE
	DO NOT STACK DURING STORAGE

## 1.5 Symbols and Labels on the Bed

	<p>READ INSTRUCTIONS FOR USE.</p>
	<p>ATTENTION</p>
	<p>ONLY SUITABLE FOR INDOOR USE</p>
	<p>PROTECTION AGAINST ACCIDENTS DUE TO ELECTRICAL CURRENT – TYPE B INSTRUMENTS</p>
	<p>CE MARK OF CONFORMITY WITH EU REGULATION</p>
	<p>JACK FOR ATTACHMENT OF CONDUCTOR FOR POTENTIAL EQUALISATION</p>
	<p>SAFE WORKING LOAD</p>
	<p>WARNING AGAINST CRUSHING OR TRAPPING</p>
	<p>MAXIMUM WEIGHT OF PATIENT</p>
	<p>USE MATTRESS RECOMMENDED BY MANUFACTURER</p>
	<p>WEIGHT OF BED</p>
	<p>DO NOT PUT ANY OBJECTS HERE</p>

	<p>SAFETY MARK – BED CERTIFIED IN TÜV SÜD</p>
	<p>DESIGNATION OF HOSPITAL BED FOR ADULTS</p>
	<p>EAC MARKING (EURASIAN CONFORMITY)</p>
	<p>REFERENCE NUMBER (PRODUCT TYPE DEPENDING ON CONFIGURATION)</p>
	<p>SERIAL NUMBER</p>
	<p>WEEE SYMBOL (RECYCLE AS ELECTRONIC WASTE, DO NOT PUT INTO THE HOUSEHOLD WASTE)</p>
	<p>MEDICAL DEVICE (COMPATIBLE WITH MEDICAL DEVICE REGULATION)</p>
	<p>RECYCLING SYMBOL</p>
	<p>DO NOT POLLUTE THE ENVIRONMENT</p>
	<p>HEAD BOARD UNLOCKED OR FOOT BOARD UNLOCKED</p>
	<p>HEAD BOARD LOCKED OR FOOT BOARD LOCKED</p>

	<p>MASS OF MOBILE HOSPITAL BED (MASS OF EMPTY BED + SAFE WORKING LOAD)</p>
	<p>UK CONFORMITY ASSESSED (UKCA) MARKING (PRODUCT NORMATIVELY HARMONIZED FOR GREAT BRITAIN ECONOMIC AREA)</p>
	<p>AUTHORIZED REPRESENTATIVE IN GREAT BRITAIN</p>
	<p>AUTHORIZED REPRESENTATIVE IN SWITZERLAND</p>

## 1.6 Acoustic signalisation (Eleganza 1 LE)

SOUND	MEANING
BEEP	discharged accumulator

## 1.7 Definitions

<b>Basic Bed Configuration</b>	the pricelist model configuration, not including a mattress
<b>Bed Weight</b>	The value depends on the product configuration, accessories or customer adjustments.
<b>Clearance of Undercarriage</b>	the height from the floor to the lowest point of the undercarriage between the castors, for the manipulation of accessories under a braked bed in the standard position
<b>Duty Cycle</b>	cycle of operation of the motor: time of activity/time of rest
<b>Ergoframe</b>	Ergoframe is the kinematic system of Mattress support platform Adjustment whose effect is the elimination of pressure on the patient's abdomen and pelvic area and frictional forces on the patient's back and legs.
<b>Maximum Patient Weight</b>	Maximum Patient Weight depends on the application environment according to IEC 60601-2-52. For application environment 1 (intensive/critical care) and 2 (acute care) reduce Safe working Load by 65 kg. For application environment 3 (long-term care) and 5 (ambulatory care) reduce Safe working Load by 35 kg.
<b>Safe Working Load</b>	the highest allowable load on the bed (patient, mattress, accessories and the load supported by those accessories)
<b>Siderail Height</b>	the height of the upper crossbar or the edges of the siderails (not the highest point of the siderail controls) from the patient surface
<b>Standard Bed Position</b>	<ul style="list-style-type: none"> <li>■ The height of the patient surface with regard to the floor is 400 mm</li> <li>■ The mattress support platform, including the individual parts, has to be in a horizontal (level - 0°) position.</li> <li>■ The siderails are always locked in the upper position.</li> <li>■ The basic position of the integrated extension.</li> </ul>
<b>Adult</b>	Patient having a physical size equal to or more than 146 cm, a mass equal to or more than 40 kg and a body mass index (BMI) equal to or more than 17 (according to IEC 60601-2-52).
<b>Mass of mobile hospital bed</b>	Sum of empty bed mass and Safe Working Load.

## 1.8 Abbreviations

<b>AC ( ~ )</b>	Alternating Current
<b>ACP</b>	Attendant Control Panel
<b>CE</b>	European Conformity
<b>CPR</b>	Cardiopulmonary Resuscitation
<b>dBA</b>	Sound Intensity Unit
<b>DC ( --- )</b>	Direct Current
<b>CUC</b>	Configuration number
<b>EMC</b>	Electromagnetic Compatibility
<b>FET</b>	Field-effect transistor
<b>HF</b>	High Frequency
<b>HPL</b>	High Pressure Laminate
<b>HW</b>	Hardware
<b>ICU</b>	Intensive Care Unit
<b>INT.</b>	Duty Cycle
<b>IP</b>	Ingress Protection
<b>IV</b>	Intravenous
<b>LED</b>	Light Emitting Diodes
<b>ME</b>	Medical Electrical (Equipment)
<b>ON</b>	Activation
<b>OFF</b>	Deactivation
<b>ppm</b>	parts per million, millionth (1000 ppm = 0,1%)
<b>REF</b>	Reference Number (product type depending on configuration)
<b>SN</b>	Serial Number
<b>SW</b>	Software
<b>SWL</b>	Safe Working Load
<b>UDI</b>	Unique Device Identification (for medical devices)
<b>USB</b>	Universal Serial Bus
<b>WEEE</b>	Waste Electrical and Electronic Equipment

## 2 Safety Instructions



**WARNING!**

Eleganza 1 LE bed should be left in its lowest position when the patient is unattended in order to reduce risk of injury due to falls!



**WARNING!**

Siderails of Eleganza 1 LE should be located in the „up“ position to reduce the risk of the patient accidentally slipping or rolling off the mattress!



**WARNING!**

Incompatible siderails and mattresses can cause an entrapment hazard!



**WARNING!**

Inappropriate handling of the power supply cord, e. g. by kinking, shearing or other mechanical damages is hazardous!



**WARNING!**

When routing cables from other equipment in the Eleganza 1 LE bed avoid squeezing those between parts of the Eleganza 1 LE bed!



**WARNING!**

Eleganza 1 LE bed should not be used with bed hoists and bed lifts!



**WARNING!**

The bed is intended for adults.  
► Follow chapter Intended use.



**WARNING!**

Incompatible mattresses can create hazards!



**WARNING!**

To avoid the risk of electric shock, this equipment must only be connected to a supply mains with protective earth.



**WARNING!**

No modification of this equipment is allowed.



**WARNING!**

Do not modify this equipment without authorization of the manufacturer.



**WARNING!**

If this equipment is modified, appropriate inspection and testing must be conducted to ensure continued safe use of the equipment

**WARNING!**

An additional **MULTIPLE SOCKET-OUTLET** or extension cord shall not be connected to the **MEDICAL ELECTRICAL SYSTEM**.

**WARNING!**

During specific investigations or treatments the significant risks of reciprocal interference posed by ME equipment may occur.

**DANGER!**

Risk of injury or death due to use of incorrect equipment!

- ▶ Always conduct the risk assessments required for the selection of suitable equipment.

**WARNING!**

Any serious incident that has occurred in relation to the device should be reported to the manufacturer and the competent authority of the Member State in which the user and/or patient is established!

**WARNING!**

Only authorised and trained person using the tool is allowed to change fuses and power supplies!

**WARNING!**

This medical device is not intended for oxygen enriched environment!

**WARNING!**

This medical device is not intended for use with flammable substances!

**WARNING!**

This medical device is not portable medical electrical equipment!

**WARNING!**

Make sure the duty cycle (2 min ON/18 min OFF) is not exceeded during bed positioning!

**WARNING!**

Patient is allowed to use selected control elements only if hospital personnel had assessed that the patient's physical and psychological state is in accordance with use of them and only if the hospital personnel had trained the patient in accordance with the instructions for use!

- ▶ It is necessary to read the instructions for use before operating the bed.
- ▶ Follow the instructions for use carefully.
- ▶ Use the bed exclusively in its original condition.
- ▶ If necessary, check the bed functions daily or at each staff rotation.
- ▶ Use the bed exclusively with the correct mains supply.
- ▶ Ensure the bed is operated by training and/or qualified personnel.
- ▶ Ensure that the patient (health permitting) has been informed about the operation of the bed and all applicable safety instructions.
- ▶ Ensure the bed is only moved or positioned upon even, hard floor surfaces.
- ▶ Replace any damaged parts immediately with original spare parts.
- ▶ Ensure maintenance and installations are performed only by qualified personnel who have been trained by the manufacturer.
- ▶ Do not apply excess weight or load to the bed according to SWL (safe working load).
- ▶ Only one adult patient can use the bed at any time.
- ▶ Take care to avoid injuries or squeezing when operating moving parts.
- ▶ When using lifting poles or infusion stands, ensure nothing will be damaged when you move or adjust the bed.
- ▶ Ensure castors are braked when the bed is not being moved, regardless of whether the bed is occupied or empty.
- ▶ Keep the mattress platform in the lowest position at any time when the healthcare personnel are not treating the patient in order to prevent the patient from falling or sustaining injuries.
- ▶ Ensure that siderails are operated by healthcare personnel only.
- ▶ Never use the bed in areas where there is a hazard or risk of explosion.
- ▶ Enable or disable functions on the handset using the supervisor control panel as appropriate for the patient's physical and mental state. Verify that the function is actually disabled.
- ▶ Never handle the mains plug with wet hands.
- ▶ Unplug the mains cable by pulling on the plug only.
- ▶ Position the mains cable so there are no loops or bends in the cable; protect the cable from mechanical wear and tear.
- ▶ Incorrect handling of the mains cable can cause an electric shock hazard, other serious injuries or damage to the bed.
- ▶ Ensure the specified duty cycle (on-time) is not exceeded (see INT. on product label).
- ▶ Ensure moving parts of the bed are not blocked.
- ▶ To prevent failures, use exclusively the manufacturer's original accessories and mattresses.
- ▶ Ensure the safe working load is not exceeded.
- ▶ Adjust bed height to approx. 20 cm below maximum height when transporting the bed in order to facilitate overcoming possible obstacles.
- ▶ Do not exceed the 75 kg safe working load of the mattress platform extension.
- ▶ Ensure the bed and its components are exclusively modified with the manufacturer's approval.
- ▶ Any non-observance of this manual may lead to injuries or material damage.
- ▶ Ensure there is no risk of crushing or otherwise injuring the patient's limbs (e.g. between siderails and mattress platform, between movable parts etc.) before positioning the bed or folding down the siderails.
- ▶ Close linen shelf before using the Reverse Trendelenburg position.
- ▶ Do not put any objects (e.g. accessories, infusions, cables) between or on siderails and movable parts. Or between mattress platform and undercarriage of the bed.
- ▶ Ensure that nobody can get injured while folding the siderails.
- ▶ Ensure no injuries or damages will occur when folding the siderails.
- ▶ Use exclusively split plastic or split telescopic siderails for confused or disoriented patients or add Protector to the single collapsible siderails.
- ▶ Ensure there is no risk of damaging the cables of the handset when they are stored on siderails or head board and foot board.
- ▶ To prevent collisions, do not put oxygen bottle holders directly under the mattress platform.
- ▶ Always set mattress platform to its lowest position and single parts of mattress platform to horizontal position in case the patient is left on the bed without supervision of personnel and if his health and mental status may indicate increase risk of falling out of the bed or entrapment.
- ▶ Personnel must consider overall adjustment of the bed and locking all of the positioning functions in accordance to health and mental status of patient, especially if the patient is left without supervision (even for short period of time) of the personnel.
- ▶ Manual positioning of parts of the bed which are designed for electronic positioning (e.g. backrest) is forbidden. Otherwise there is a risk of damaging and dysfunction of the backrest actuator or unprompted fall of the backrest.
- ▶ The handset cable of 1GTLH model (cross shaped lifting mechanism) must always be guided above the cross of lifting mechanism to avoid damaging the cable when positioning the bed.

---

## 3 Intended use

The intended use is the hospitalization of the patient in the acute and long-term care units, which includes above all the following aspects:

- ▶ Adjustment of the specific positions needed for the preventive reasons, routine nursing, treatments, mobilization, physiotherapy, examinations, sleeping, and relaxation. These positions are further specified and described in the clinical evaluation of this device, together with their potential clinical outcomes and benefits.
- ▶ Providing the safe environment for the patient during all relevant procedures. The particular requirements on patient safety are the subject of the clinical evaluation, including evaluation of the risk/benefit ratio. The relevant safety issues are the part of the risk management file.
- ▶ Patient in-bed indoor transport out of the patient room.
- ▶ Providing the suitable working conditions for the caregivers to perform the routine and specific tasks during the patient hospitalization.

### 3.1 User population

- ▶ Adult patients (weight  $\geq 40$  kg, height  $\geq 146$  cm, BMI  $\geq 17$ ) in the acute and long-term care units (Application Environment 2 and 3, as in IEC 60601-2-52)
- ▶ Caregivers (nurses, doctors, technical personnel, transport personnel, cleaning personnel)

### 3.2 Contraindications

- ▶ The medical device is not intended for the pediatric patients use.
- ▶ Certain positions are not suitable for specific diagnoses/medical conditions (e.g. spinal cord injuries vs. Fowler position, higher ICP patients vs. Trendelenburg). Staff expert assessment / nursing consideration is needed in all individual case of contraindication.

### 3.3 Operator

- ▶ Caregiver
- ▶ Patient (based on individual patient status assessment by caregiver the patient can utilize dedicated device functions)

## 4 Product Description

### 4.1 Eleganza 1 LE (1GTL) – Split plastic siderails (SR21, SR22)



Fig.. Overview Eleganza 1 LE – Split plastic siderails

1. **Foot Board**
2. **Split plastic siderails**
3. **Head Board**
4. **Castor 150 mm**
5. **Siderail release mechanism**
6. **Accessory rail**
7. **Castor control lever**
8. **Linen holder**
9. **Protective bumper**

## 4.2 Eleganza 1 LE (1GTL) – Split plastic siderails (SR46, SR48)

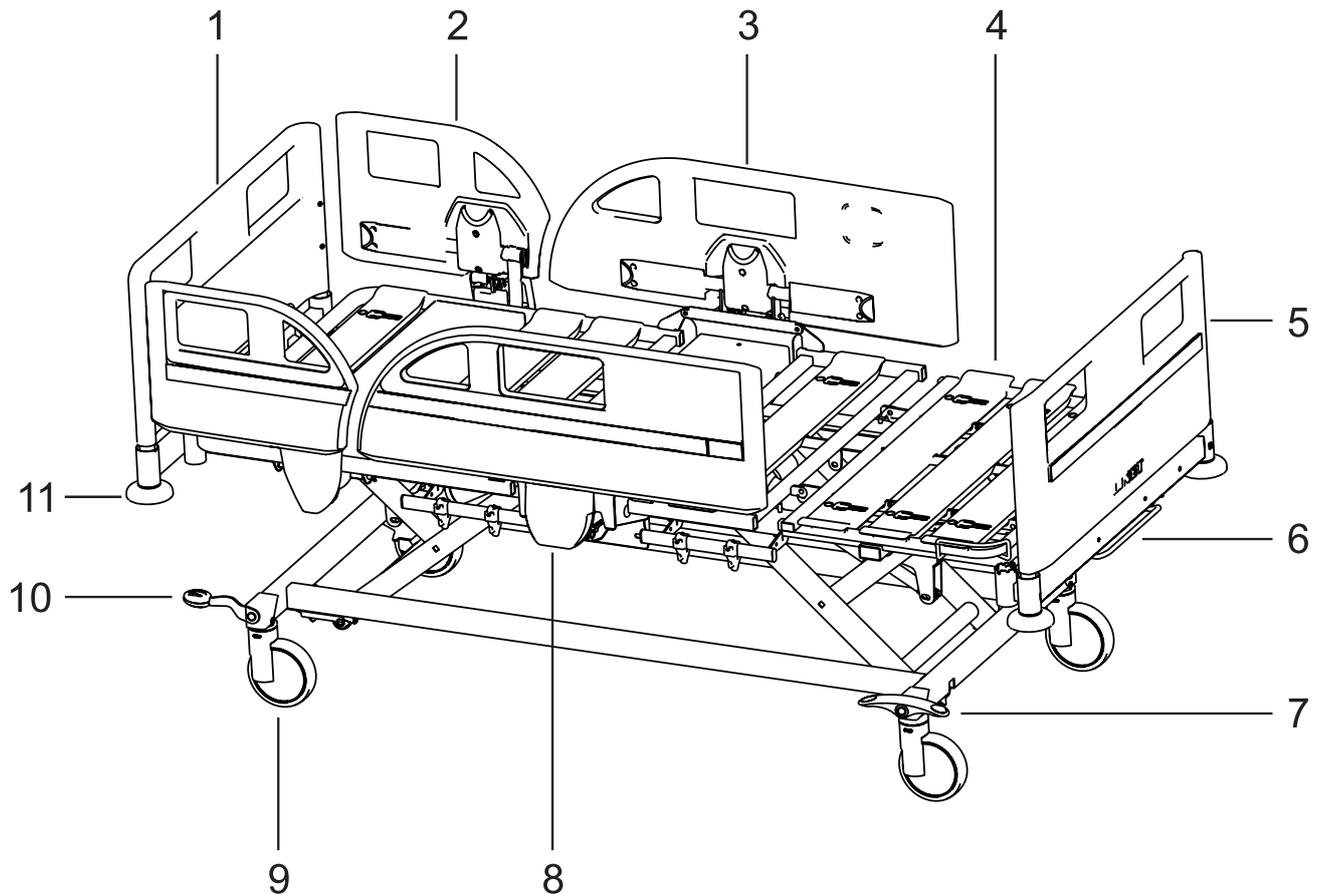


Fig. Overview Eleganza 1 LE – Split plastic siderails

- 1. Head Board
- 2. Head Plastic Siderail
- 3. Foot Plastic Siderail
- 4. Mattress Platform (Removable Plastic Parts)
- 5. Foot Board
- 6. Linen Shelf
- 7. Brake Lever (optional)
- 8. Siderail Release Mechanism
- 9. Castor
- 10. Brake Lever (optional)
- 11. Corner Bumper

## 4.3 Eleganza 1 LE (1GTL) – Single collapsible siderails controlled from top

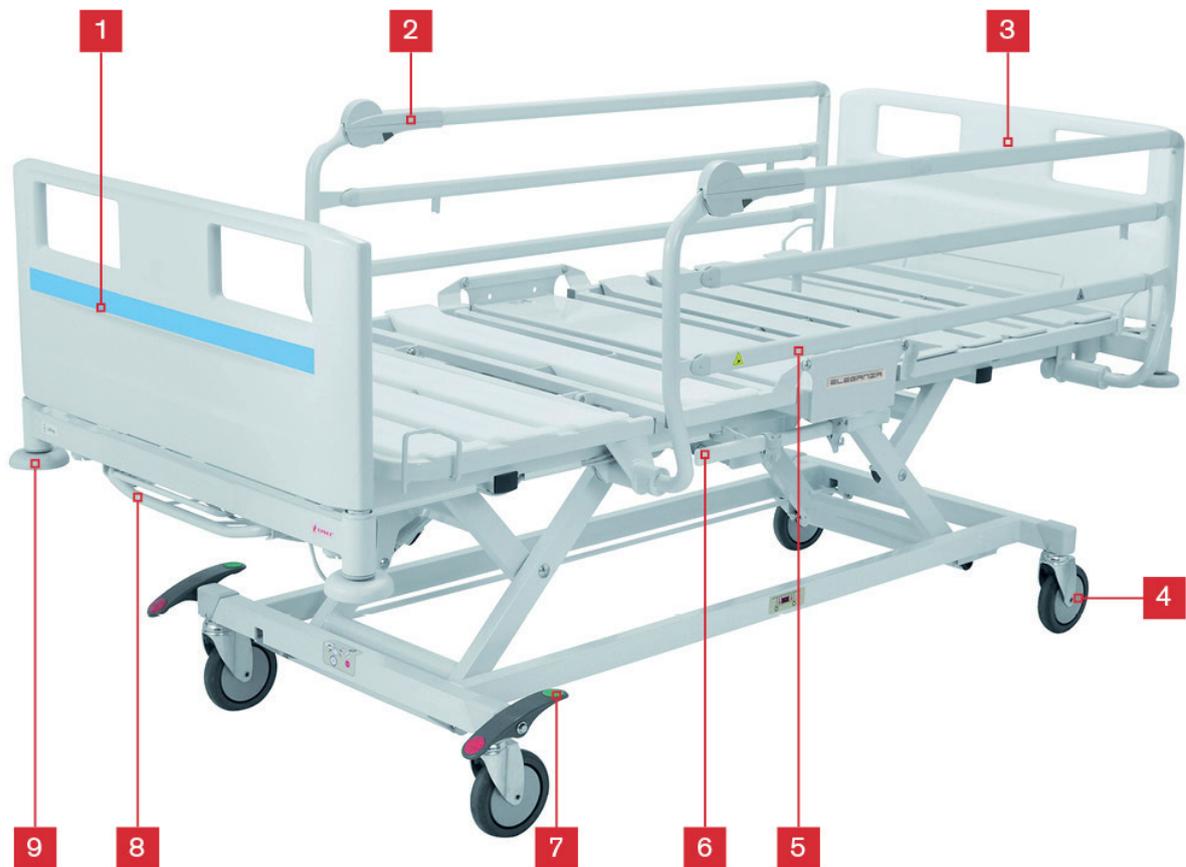
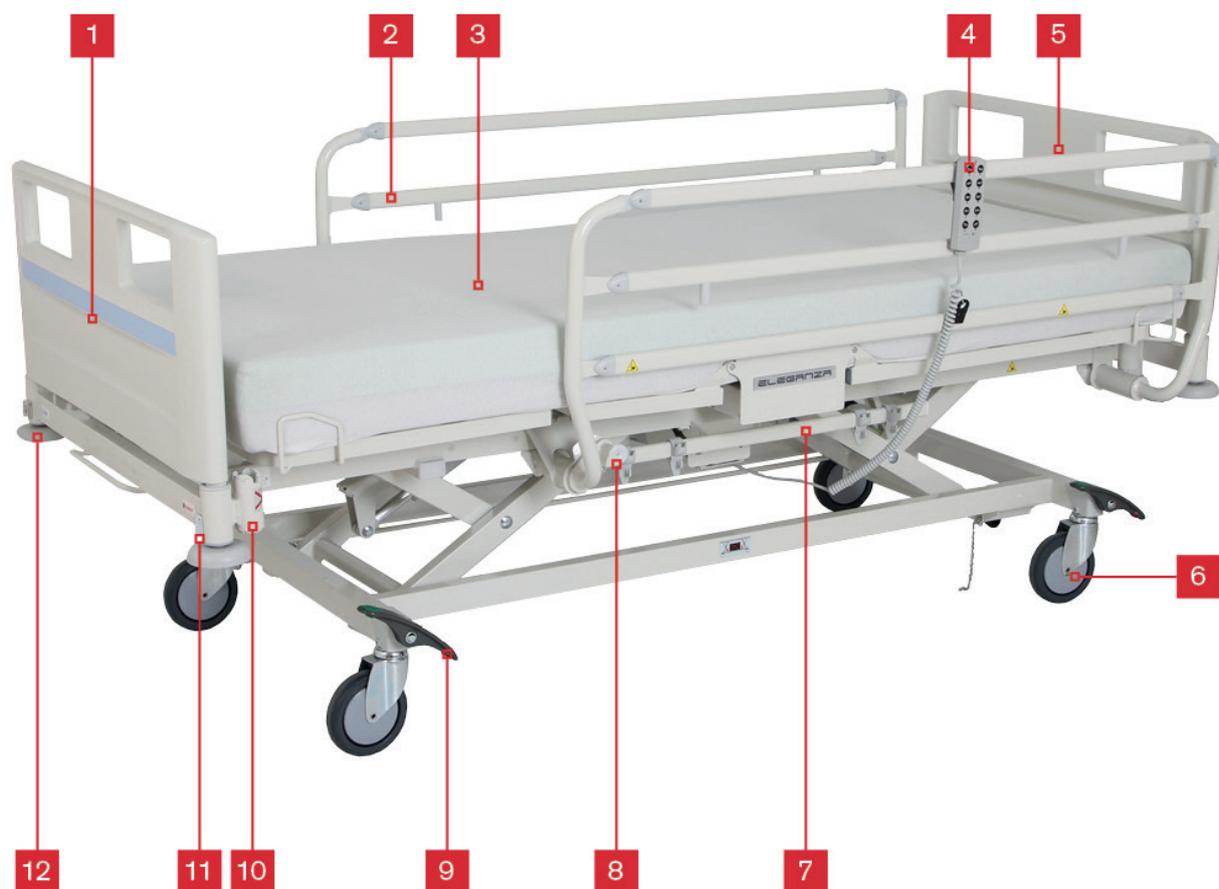


Fig. Overview Eleganza 1 LE – Single collapsible siderails controlled from top

1. Foot Board
2. Siderail release mechanism
3. Head Board
4. Castor 150 mm
5. Single collapsible siderails
6. Accessory rail
7. Castor control lever
8. Linen holder
9. Protective bumper

**4.4 Eleganza 1 LE (1GTL) – Single collapsible siderails controlled from bottom**



*Fig. Overview Eleganza 1 LE – Single collapsible siderails controlled from bottom*

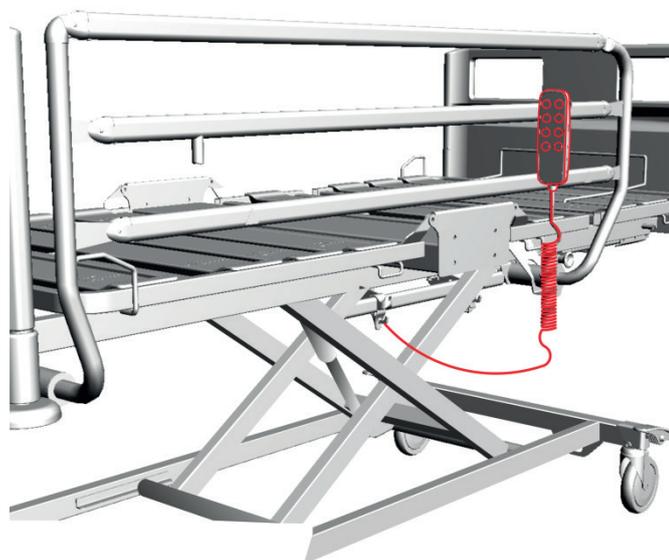
- 1. **Foot Board**
- 2. **Single collapsible siderails**
- 3. **Mattress platform with mattress**
- 4. **Handset**
- 5. **Head Board**
- 6. **Castor 150 mm**
- 7. **Accessory rail**
- 8. **Siderail release mechanism**
- 9. **Castor control lever**
- 10. **Housing for accessories or Protector®**
- 11. **Foot board lock**
- 12. **Protective bumper**

## 4.5 Eleganza 1 LE (1GTLH) – Single collapsible siderails



Fig. Eleganza 1 LE with cross shaped lifting mechanism with single collapsible siderails

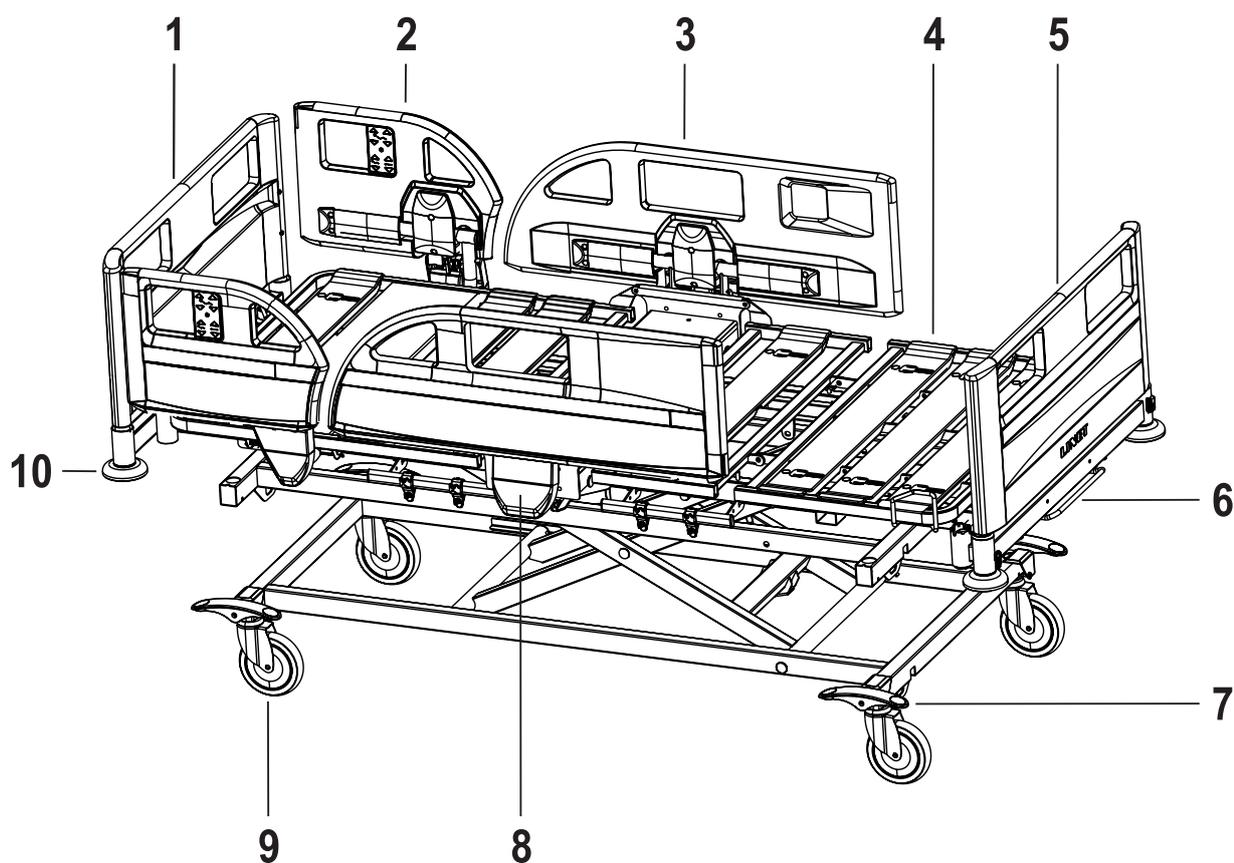
1. Foot Board
2. Single collapsible siderails in highest positions
3. Head Board
4. Castor 150 mm
5. Single collapsible siderails in lowest position
6. Castor control lever (7.5 – 9)
7. Siderail release mechanism



**NOTE:** The handset cable of 1GTLH model (cross shaped lifting mechanism) must always be guided above the cross of lifting mechanism to avoid damaging the cable when positioning the bed.

Fig. Guiding of handset

**4.6 Eleganza 1 LE (1GTLH) – Split plastic siderails (SR46, SR48)**



*Fig. Eleganza 1 LE with cross shaped lifting mechanism – Split plastic siderails*

- 1. Head Board
- 2. Head Plastic Siderail
- 3. Foot Plastic Siderail
- 4. Mattress Platform (Removable Plastic Parts)
- 5. Foot Board
- 6. Linen Shelf
- 7. Brake Lever
- 8. Siderail Release Mechanism
- 9. Castor
- 10. Corner Bumper

## 5 Technical Specification

### 5.1 Applied parts type B

All the accessories the patient can reach are Type B Applied Parts.

#### List of type B applied parts:

- Handset, Additional Supervisor Panel, Control Element integrated in Siderail
- Siderails
- Head Board and Foot Board
- Mattress Platform

All technical data are rated data and are subject to construction and manufacturing tolerances.

### 5.2 Mechanical Specification (standard version)

Parameter	Value
Dimensions (without Bed Extension)	218 cm x 99,5 cm (depending on configuration)
Siderail length Split siderail	
■ Foot siderail	96,5 cm
■ Head siderail	49,5 cm
Collapsible siderails	146,5 cm
Siderail height Split siderail	
■ Foot siderail	35 cm
■ Head siderail	35 cm
Collapsible siderails	54,5 cm
Maximum Mattress Dimensions	200 cm x 90 cm
Maximum Mattress Height	16 cm (depending on configuration)
Siderail Height above Mattress Platform (without mattress)	MIN: 7,5 cm, MAX: 38 cm (depending on configuration)
Bed Extension	0 cm / 15 cm
Mattress Platform Height Adjustment	
castor diameter 125 mm	37 cm – 73,5 cm
castor diameter 150 mm	39,5 cm – 76 cm
Maximum Backrest Angle	70°
Maximum Thighrest Angle	35°
Maximum Calfrest Angle	21°
Ergoframe®	10 cm / 6 cm
Trendelenburg Angle	15°
Reverse Trendelenburg Angle	15°
Bed Weight	135 kg (depending on configuration)
Maximum Lifting Pole Load	75 kg

### 5.3 Safe Working Load (1GTLH)

Safe Working Load (depending on castors)	Castors	
	Diameter	Brake system
185 kg	125 mm	Individually operated castors
230 kg		Centrally operated castors
230 kg	150 mm	Centrally operated castors

### 5.4 Safe Working Load (1GTL)

	Castors		Accumulator	
	Diameter	Brake system	without	with
Safe Working Load (depending on castors and accumulator)	125 mm	Individually operated castors	185 kg	185 kg
		Centrally operated castors	200 kg	250 kg
	150 mm	Centrally operated castors	200 kg	250 kg

### 5.5 Mass of Mobile Hospital Bed (1GTLH)

Mass of Mobile Hospital Bed (depending on castors)	Castors	
	Diameter	Brake system
308 kg	125 mm	Individually operated castors
353 kg		Centrally operated castors
353 kg	150 mm	Centrally operated castors

### 5.6 Mass of Mobile Hospital Bed (1GTL)

	Castors		Accumulator	
	Diameter	Brake system	without	with
Mass of Mobile Hospital Bed (depending on castors and accumulator)	125 mm	Individually operated castors	337 kg	
		Centrally operated castors	352 kg	402 kg
	150 mm	Centrally operated castors	352 kg	402 kg

## 5.7 Maximum Patient Weight (1GTLH)

	Application environment 1,2	Application environment 3,5
Maximum Patient Weight (depending on application environment)	120 kg	150 kg
	165 kg	195 kg
	165 kg	195 kg

## 5.8 Maximum Patient Weight (1GTL)

	Application environment 1,2		Application environment 3,5	
	Accumulator		Accumulator	
	without	with	without	with
Maximum Patient Weight (depending on accumulator and application environment)	120 kg	120 kg	150 kg	150 kg
	135 kg	185 kg	165 kg	215 kg
	135 kg	185 kg	165 kg	215 kg

## 5.9 Environment Conditions

Environmental Conditions - Operation	Value
Temperature	10 °C — 40 °C
Humidity	30 % — 75 %
Atmospheric Pressure	795 hPa — 1060 hPa
Environmental Conditions - Storage and Transport	Value
Temperature	-20°C — 50°C
Humidity	20% — 90% (non-condensing)
Atmospheric Pressure	795 hPa — 1060 hPa

## 5.10 Electrical Specification



### DANGER!

Danger to life due to electric shock!

- Ensure that maintenance and service of electrical parts are performed only by qualified personnel if the bed is connected.

Parameter	Value
Input Voltage	100 - 240 V~, 50/60 Hz
Maximum Power Input	370 VA
Safety Protection	IP X4
Safety Class	Class I (with type B applied parts)
Electrical Motor Operating Time	max. 2 min. ON / 18 min. OFF
Fuse	2x T1.6A L 250 V

**NOTE** Upon request, LINET® can deliver hospital beds with electrical specifications that comply with regional standards (custom voltage, different mains plugs).

## 5.11 Electromagnetic compatibility

Bed is intended for hospitals except for near active HF surgical equipment and the RF shielded room of a medical system for magnetic resonance imaging, where the intensity of EM disturbances is high.

Bed has defined no essential performance.



**WARNING!**

It is recommended to avoid the use of this device next to or in block with other device, because it could lead to improper operation. If such use is needed, this device and the other equipment should be under surveillance to verify proper operation.

**List of used cables:**

- 1. Mains cable, maximum length 6 m
- 3. Handset, maximum length 3m



**WARNING!**

Use of the accessories, converters and other cables, than specified and provided by manufacturer of this bed could lead to increase of electromagnetic emission or lower the electromagnetic immunity of this bed and lead to improper operation.



**WARNING!**

Mobile RF communication device (including end use devices like antenna cables and external antenna) should not be used closer than 30 cm (12 inches) from any part of this bed Eleganza 1 LE, including cables specified by manufacturer. Otherwise this could lead to deterioration of functionality of this bed.



**WARNING!**

Do not overload the bed (SWL), respect the duty cycle (INT.) and consider chapter 16 Maintenance in order to maintain the basic safety with regard to electromagnetic disturbances for the expected service life.

### 5.11.1 Manufacturer instructions - electromagnetic emissions

Emission Test	Compliance
RF emissions CISPR 11	Group 1
RF emissions CISPR 11	Class B
Harmonic emissions IEC 61000-3-2	Class A
Voltage fluctuations / flicker emissions IEC 61000-3-3	Complies

## 5.11.2 Manufacturer instructions - electromagnetic susceptibility

Immunity Tests	Compliance level
Electrostatic discharge (ESD) IEC 61000-4-2	± 8 kV for contact discharge ± 15 kV for contact discharge
Radiated RF IEC 61000-4-3	3 V/m 80 MHz – 2,7 GHz 80 % AM at 1 kHz
Proximity fields from RF wireless communications equipment IEC 61000-4-3	See Table 1
Fast electrical transients / burst IEC 61000-4-4	±2 kV for power line repetition frequency 100 kHz
Surge IEC 61000-4-5	± 1 kV Line-to-line ± 2 kV Line-to-ground
Conducted RF IEC 61000-4-6	3 V (0,15 MHz – 80 MHz) 6 V in ISM bands between 0,15 MHz and 80 MHz 80 % AM at 1 kHz
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	30 A/m
Voltage dips, short interruptions on power supply input lines IEC 61000-4-11	0 % UT; 0,5 cycle At 0°, 45°, 90°, 135°, 180°, 225°, 270° a 315° 0 % UT; 1 cycle and 70 % UT; 25/30 cycle Single phase: at 0° 0 % UT; 250/300 cycle

**Table 1 - IMMUNITY to RF wireless communications equipment**

Test frequency (MHz)	Band (MHz)	Service	Modulation	Immunity Test Level V/m
385	380 - 390	TETRA 400	Pulse modulation 18 Hz	27
450	430 - 470	GMRS 460, FRS 460	FM ± 5 kHz deviation 1 kHz sine	28
710 745 780	704 - 787	LTE band 13, 17	Pulse modulation 217 Hz	9
810 870 930	800 - 960	GSM 800/900, TETRA 800, iDEN 820, CDMA 850, LTE band 5	Pulse modulation 18 Hz	28
1 720 1 845 1 970	1 700 - 1 990	GSM 1800; CDMA 1900; GSM 1900; DECT; LTE band 1, 3, 4, 25; UMTS	Pulse modulation 217 Hz	28
2 450	2 400 - 2 570	Bluetooth, WLAN, 802.11 b/g/n, RFID 2450, LTE band 7	Pulse modulation 217 Hz	28
5 240 5 500 5 785	5 100 - 5 800	WLAN 802.11 a/n	Pulse modulation 217 Hz	9

**NOTE** There are applied no deviations to requirements of IEC 60601-1-2 ed. 4

**NOTE** There are no known other measures for keeping the basic safety based on EMC phenomena.

**NOTE** Beds equipped with communication module meet standard for IEEE 802.11 b/g/n (2400,0 MHz – 2483,5 MHz, modulation DSSS (IEEE 802.11 b ), OFDM (IEEE 802.11 g/n) 20MHz bandwidth, EIRP = 0,34 W).

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## 6 Use and Storage Conditions

**The bed may not be used and stored in indoor environments:**

- Where there is a risk of explosion.
- Containing inflammable anaesthetics.

The bed is designed for use in rooms for medical purposes. Electrical installations must therefore meet local standards laying down the necessary conditions for electrical installations.

- ▶ Disconnect the bed from the mains in exceptional cases (i.e. a storm).

## 7 Scope of Delivery and Bed Variants

### 7.1 Scope of Delivery

#### Delivery:

- Upon receipt, check that the shipment is complete as specified on the delivery note.
- Notify the carrier and supplier of any deficiencies or damages immediately as well as in writing or make a note on the delivery note.

### 7.2 Bed Variants

#### 7.2.1 Eleganza 1 LE Model 1GTL Hospital Bed

s = standard

o = optional

- **Mattress Platform**
  - mattress platform consisting of removable plastic parts (s)
  - mattress platform with bed shortening (-14 cm) (o)
- **Siderails**
  - Without siderails (s)
  - Single collapsible siderails, powder coated controlled from top (o)
  - Single collapsible siderails, powder coated controlled from bottom (o)
  - Split plastic siderails with angle indicator (o)
  - Split plastic siderails without angle indicator (o)
- **Head Board and Foot Board**
  - Design Eleganza 1 – plastic panels with coloured inserts (s)
  - Design Eleganza 3 – plastic panels with coloured inserts (s)
  - Powder Coated HE/FE – with coloured HPL panels (o)
  - Aluminium – with coloured HPL panels, design Hotel (o)
- **Castors**
  - 125 mm Tente Motion, with individual braking system (s)
  - 125 mm Tente Motion, with central braking system (o)
  - 150 mm Tente Motion, with central braking system (o)
  - 150 mm Tente Motion + fifth castor (o)
- **Control Elements**
  - Handset – 10 buttons with function lock (s)
- **Other**
  - Mattress platform extension (o)
  - Linen shelf (o)
  - One pair of universal accessory holders (o)
  - Plug & Play adapter for handset connection (o)
- **Powder Coating Colors**
  - RAL 9002 (grey) (s)
  - Powder-coated metal parts, RAL 9006 (light grey) + RAL 7043 (dark grey) (o)

## 7.2.2 Eleganza 1 LE Model 1GTLH Hospital Bed

s = standard

o = optional

- **Mattress Platform**
  - mattress platform consisting of removable plastic parts (s)
- **Siderails**
  - Without siderails (s)
  - Single collapsible siderails, powder coated controlled from top (o)
  - Single collapsible siderails, powder coated controlled from bottom (o)
  - Split plastic siderails with angle indicator (o)
  - Split plastic siderails without angle indicator (o)
- **Head Board and Foot Board**
  - Design Eleganza 1 – plastic panels with coloured inserts (s)
  - Design Eleganza 3 – plastic panels with coloured inserts (s)
  - Powder Coated HE/FE – with coloured HPL panels (o)
  - Aluminium – with coloured HPL panels, design Hotel (o)
- **Castors**
  - 125 mm Tente Motion, with individual braking system (s)
  - 125 mm Tente Motion, with central braking system (o)
  - 150 mm Tente Motion, with central braking system (o)
  - Control Elements
  - Handset – 8 buttons without function lock (s)
  - Handset – 8 buttons with function lock (o)
- **Other**
  - Mattress platform extension (o)
  - Linen shelf (o)
  - One pair of universal accessory holders (o)
  - Plug & Play adapter for handset connection (o)
- **Powder Coating Colors**
  - RAL 9002 (grey) (s)
  - Powder-coated metal parts, RAL 9006 (light grey) + RAL 7043 (dark grey) (o)

## 8 Putting into Service



### **WARNING!**

#### **Risk of injury when working on the bed!**

- ▶ Ensure that the bed is disconnected from the mains connection prior to putting into service, putting out of service and maintenance.
- ▶ Ensure that the castors are locked prior to putting into service, putting out of service and maintenance.



### **CAUTION!**

#### **Material damage due to incorrect putting into service!**

- ▶ Ensure that putting into service is performed exclusively by manufacturer's customer service or trained hospital personnel.

#### **Set up the bed as follows:**

- ▶ Unpack the bed.
- ▶ Check the delivery (see Scope of Delivery).
- ▶ Install equipment and accessories.
- ▶ In case of delivery with dismantled head board and foot board, mount the head board and foot board (see Head Board and Foot Board).
- ▶ Set-up the bed only on a suitable floor surface (see Transport).
- ▶ Ensure the mains cable does not collide or get stretched when adjusting the bed. Check the plug is inserted correctly.
- ▶ Do not leave any extension cords or power strips loose on the floor.
- ▶ Ensure all the required mechanical and electrical prevention mechanisms are available on site.
- ▶ There is no mains switch on the bed, i.e. the mains cable is the only means to isolate the bed from the mains.
- ▶ Ensure the mains cable is always accessible.
- ▶ The plug on the mains cable should only be changed and maintained by qualified and trained service technicians authorised by the manufacturer.

## 8.1 Head Board and Foot Board



**WARNING!**

**Risk of injury when inserting the head board and foot board!**

- ▶ To insert head board and foot board into corner posts, hold them by the corner handles on top with both hands.
- ▶ Install head board and foot board before the first use.



**WARNING!**

**Risk of injury due to incorrectly installed head board and foot board!**

- ▶ Ensure head board and foot board are correctly inserted, especially when moving the bed.
- ▶ Ensure head board and foot board locks are locked, especially when moving the bed.



**WARNING!**

**Risk of injury when removing the head board and foot board!**

- ▶ Before removing head board and foot board, ensure the head board and foot board do not collide with any accessories or cable.
- ▶ If a patient is lying in a bed with the head and/or foot board removed, supervise the bed at all times.

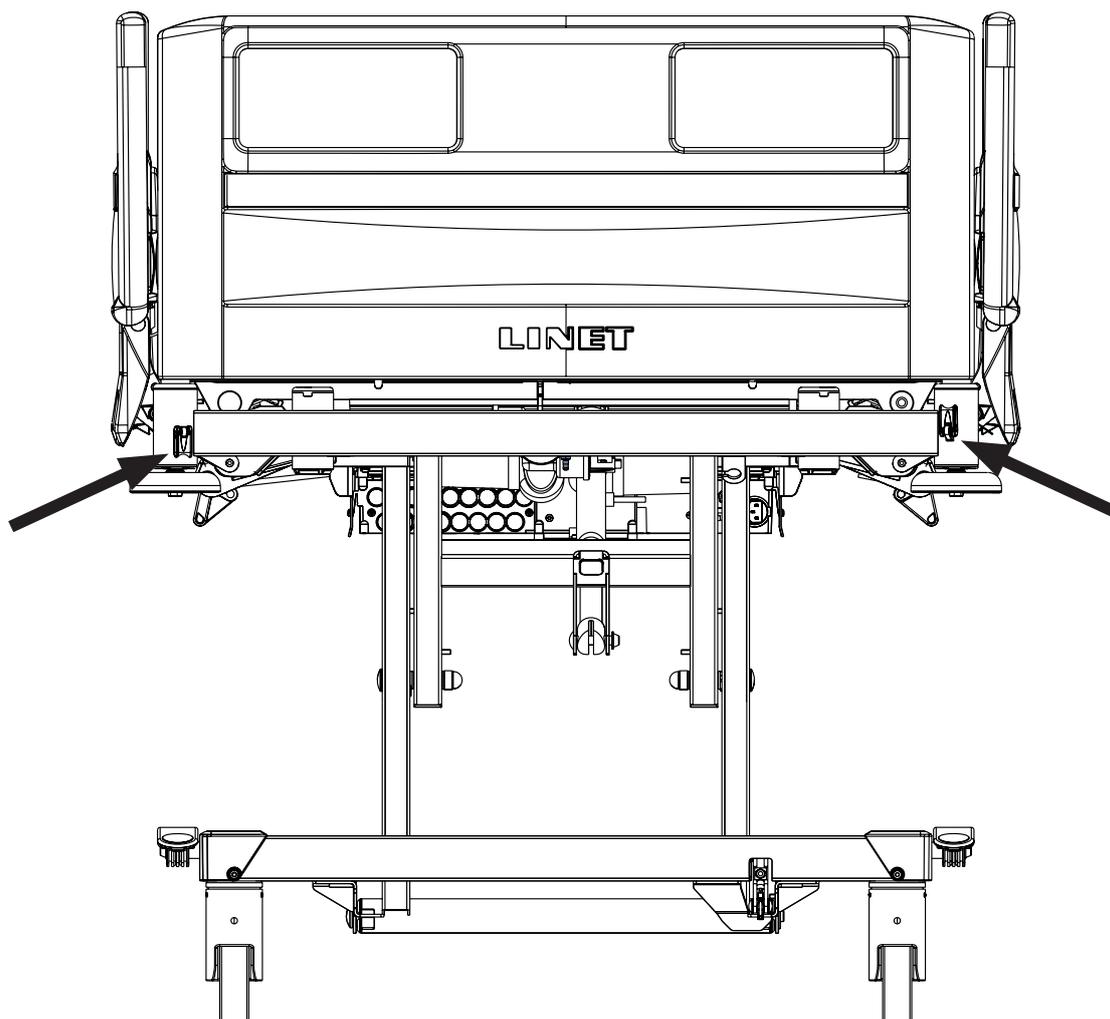


**WARNING!**

**Material damage due to excess load!**

- ▶ Ensure nobody sits on the head board and foot board.

**NOTE:** The head board and foot board may be delivered in several decor colour variants.



*Fig. Positions of head board locks*



1



2

1. Locked
2. Unlocked

**Install head board and foot board as follows:**

- ▶ Unlock safety levers on corner posts.
- ▶ Slide head board and foot board into slots on corners posts with coloured panels outside.
- ▶ Lock safety levers on corner posts.

**Remove head board and foot board as follows:**

- ▶ Unlock safety levers on corner posts.
- ▶ Pull head board and foot board upward.

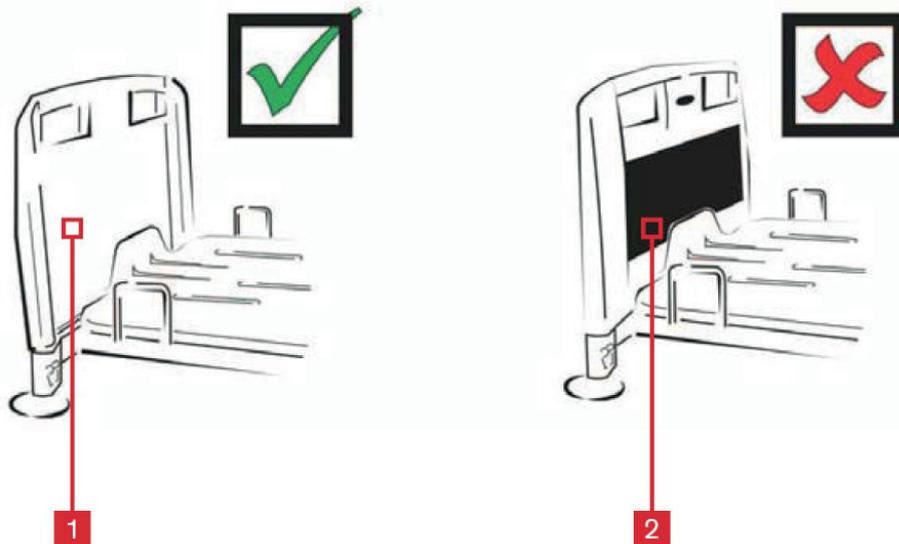


Fig. Installing the head board or foot board

1. Right (coloured panel outside)
2. Wrong (coloured panel inside)

**NOTE:** It is possible to install head board and foot board to the bushings with locked lock.

## 8.2 Mattress support platform

Eleganza 1 bed has 4-part Mattress support platform consisting of Backrest, Seat section, Thighrest and Calcrest. The Mattress support platform has 7 removable plastic sections of Mattress support platform (1, 2, 3, 4, 5, 6 and 7).

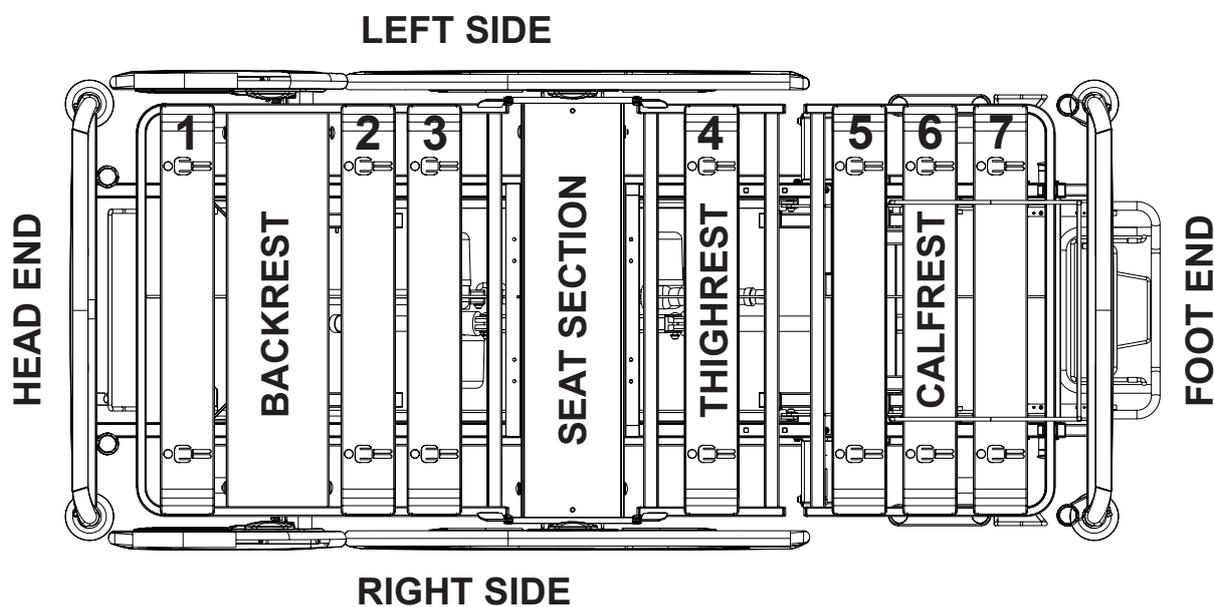


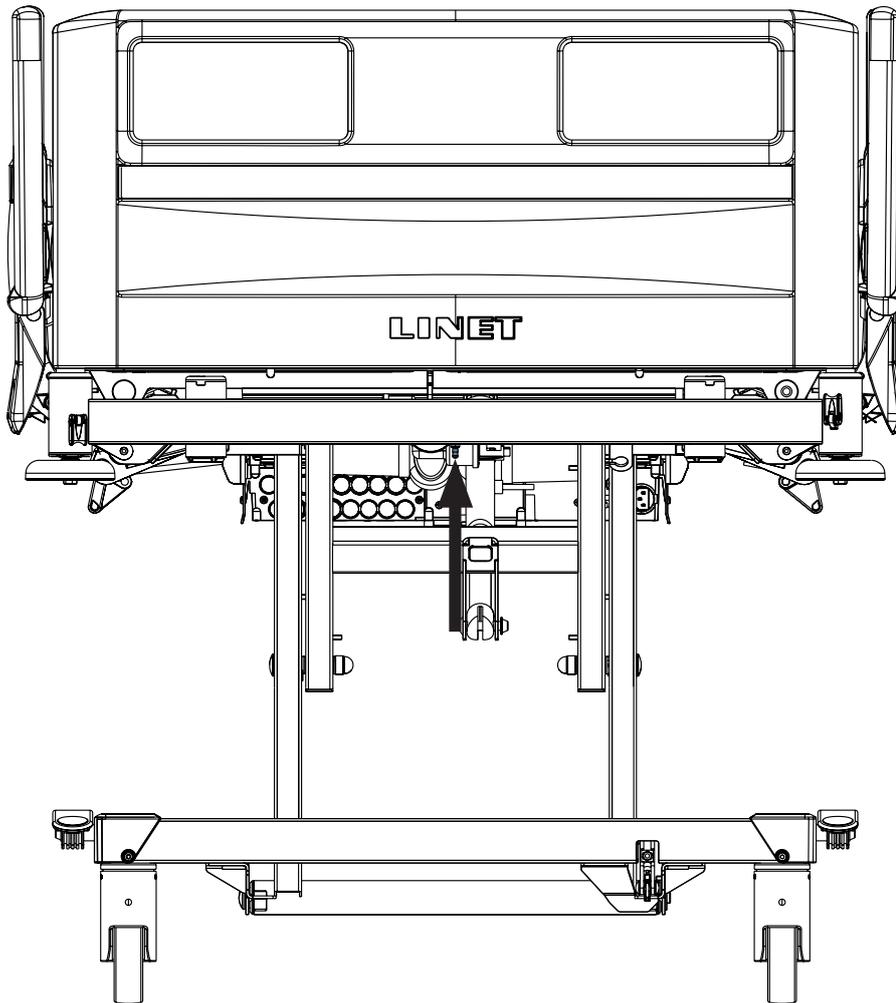
Fig. 4-part Mattress support platform

### To remove/insert plastic sections of the mattress support platform:

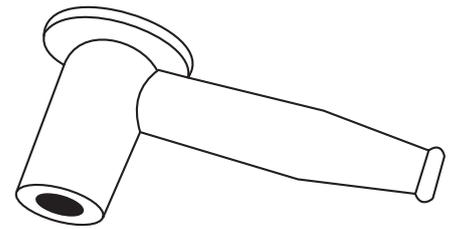
- ▶ Pull out mattress support platform plastic sections.
- ▶ Place mattress support platform plastic sections in directions indicated by the orientation of the picture of person on the plastic sections.
- ▶ The correct fitting of the plastic section is signaled by hearable "click".
- ▶ Ensure that mattress support platform plastic sections are fitted correctly by trying pull the plastic sections up with little manpower.

## 8.3 Potential Equalisation

The bed is equipped with a standard protective connector. This connector is used for potential equalisation between the bed and any intravascular or intracardiac device connected to the patient to protect the patient from static electric shocks.



*Fig. Potential equalisation connector – male*



*Fig. Potential equalisation connector - female*

### **Use equalisation connector if:**

- The patient is connected to any intravascular or intracardiac device.

### **Before connecting the patient to an intravascular/intra-cardiac device:**

- ▶ Connect the ground wire of the device to the potential equalisation connector on the bed on which the patient in question is lying.
- ▶ Use a standard hospital connector.
- ▶ Make sure the connectors match.
- ▶ Make sure there is no possibility of accidental disconnection.

### **Before moving the bed:**

- ▶ Disconnect the patient from the intravascular or intracardiac device.
- ▶ Disconnect the potential equalisation connector.

## 8.4 Before Use



### CAUTION!

Material damage due to temperature difference!

- ▶ If there is a considerable temperature difference between the bed and the place of operation (after transport/storage), leave bed unconnected for 24 hours to allow the temperature to equalise.

### Prepare the bed for service as follows:

- ▶ Dispose of all packaging (see Disposal).
- ▶ Connect the bed to the mains.
- ▶ Raise the mattress platform to the highest position.
- ▶ Lower and tilt the mattress platform to the lowest position.
- ▶ Check the castors and main brake work correctly.
- ▶ Check the bed extension works correctly.
- ▶ Check it is possible to remove the head and foot boards.
- ▶ Check all of the functions on the control elements (handset).
- ▶ Check the siderails function properly.

## 8.5 Transport



### CAUTION!

Damage to bed due to incorrect use!

- ▶ Use 125 mm castors exclusively on flat, even surfaces without any gaps.

### For safe transport, observe the following:

- ▶ Ensure no cables are run over when moving a bed.
- ▶ Ensure the mains cable is attached with a hook (at the head end of the bed).
- ▶ Ensure the castors are unlocked before moving the bed during the loading/unloading process (see Castor Control and Bed Transport).
- ▶ Ensure the siderails are lifted and locked during transport of the bed.
- ▶ Move the bed only on suitable floor surfaces.

### Suitable surfaces:

- Tile
- Hard linoleum
- Hard flooring

### Unsuitable surfaces:

- Soft, unsealed or defective flooring
- Soft wooden flooring
- Soft and porous stone floors
- Carpeted floors with underlay
- Soft linoleum
  - For longer distances, ensure the castor steering function (main control) is activated.
  - Ensure the brakes are released while moving the bed.

## 8.6 Firmware

The bed includes firmware that can be updated only by an authorised service technician.

This firmware is protected against unauthorised access by mechanical housing (tool is needed to access), by seal (components with processor are sealed), by exclusive compatibility with an authorised software tool and by check of compatibility of the new firmware with the bed.

## 9 Power Cable



**CAUTION!**

**Disconnecting bed from the mains does not stop motions of the bed!**

- ▶ Stop the bed before disconnection bed from the mains.

Attachment plug is means of connecting and disconnecting bed from the mains.

Power supply cable (mains power cable) must be attached with a hook at the head end of the bed during transport.

**Where the integrity of the external protective conductor in the installation or its arrangement is in doubt**

- ▶ do not use the bed.

# 10 Manipulation



**WARNING!**

Risk of injury when adjusting the bed!

- ▶ Ensure there are no body parts between the mattress platform elements and the mattress platform frame when adjusting the bed.
- ▶ Ensure there are no body parts below the mattress platform frame before adjusting the bed.
- ▶ Secure or remove any items on the bed.

The bed is operated by different control elements.

**Control elements:**

- ▶ Handset

**If the bed does not react to individual position settings:**

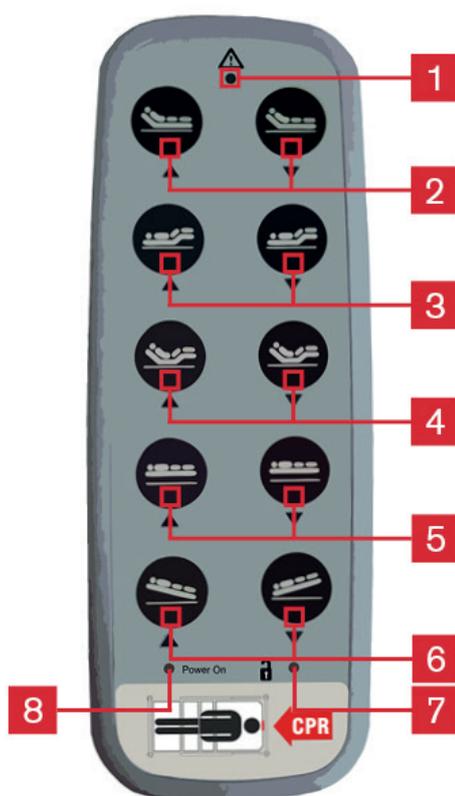
- ▶ Check whether the function is disabled on the handset.

## 10.1 Handset – Iprox 2

Handset is the main control element of the bed. It is used for patient or staff to position respective parts of the mattress platform and its height. For positioning the bed press and hold the button of respective function until the required position is reached. Handset allows pressing two or more functions at once (e.g. mattress platform up and backrest down simultaneously).

### 10.1.1 Handset Iprox 2 – 10 buttons

Handset 10 buttons version with function lock.



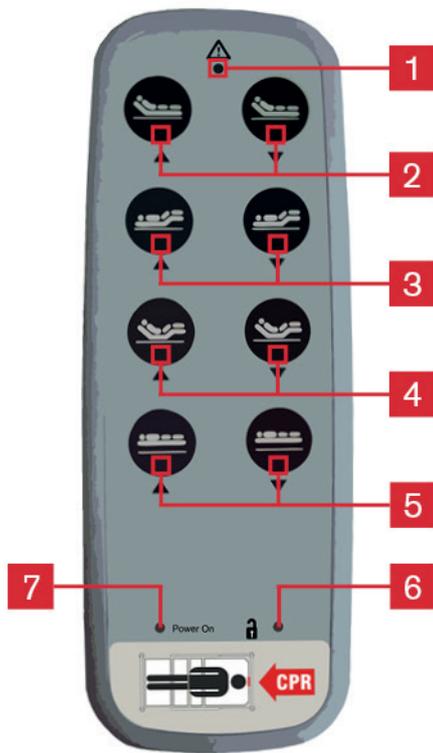
1. LED Indicator of active function – is illuminated green after pressing any button
2. Backrest Positioning Buttons
3. Thighrest Positioning Buttons
4. Auto-Contour Buttons (simultaneous setting of backrest and thighrest)
5. Height Adjustment Buttons
6. Button Trendelenburg and Anti-Trendelenburg (mattress platform tilt only)
7. LED Lock Indicator
8. LED Power On

**NOTE:** The handset does not have the automatic lock function. The handset is active the whole time until it is locked manually.

Fig. Handset – 10 buttons version

## 10.1.2 Handset Iprox 2 – 8 buttons with lock function

Handset 8 buttons version with lock function.



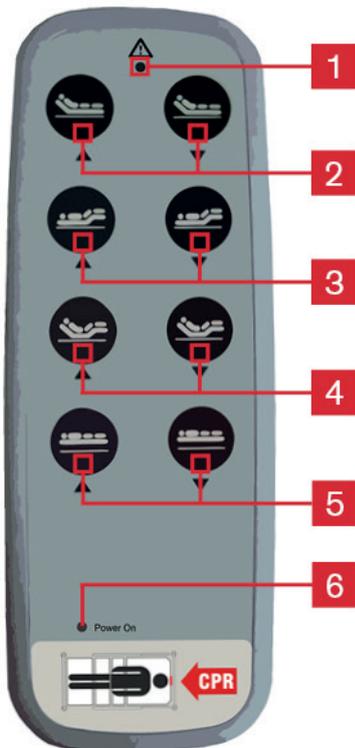
1. LED Indicator of active function – is illuminated green after pressing any button
2. Backrest Positioning Buttons
3. Thighrest Positioning Buttons
4. Auto-Contour Buttons (simultaneous setting of backrest and thighrest)
5. Height Adjustment Buttons
6. LED Lock Indicator
7. LED Power On

**NOTE:** The handset does not have the automatic lock function. The handset is active the whole time until it is locked manually

Fig. Handset – nursing version with lock function

## 10.1.3 Handset Iprox 2 – 8 buttons without lock function

Handset 8 buttons version without lock function.



1. LED Indicator of active function – is illuminated green after pressing any button
2. Backrest Positioning Buttons
3. Thighrest Positioning Buttons
4. Auto-Contour Buttons (simultaneous setting of backrest and thighrest)
5. Height Adjustment Buttons

**NOTE:** The handset does not have the automatic lock function. The handset is active the whole time until it is locked manually.

Fig. Handset – nursing version without lock function

## 10.2 Handset functions

### 10.2.1 Lock function

The lock function is used to lock some or all of the functions on the handset.

1. **Lock**
2. **Key**

**To lock functions:**

- ▶ Insert key 2 into the lock 1.
- ▶ Turn the key into desired position of lock-

Desired lock was set up.

**To unlock functions:**

- ▶ Insert key 2 into the lock 1.
- ▶ Turn the key to "unlocked" position.
- ▶ The handset is unlocked.

Handset is unlocked, LED lock indicator on the front side of handset is illuminated green or orange (depending on handset variant).



Fig. Handset and lock function

### 10.2.2 Statuses of the lock and automatic lock of the handset

Lock status is indicated by LED lock indicator (6):

Type of handset	LED lock indicator	Meaning
8 buttons with lock	Not illuminated	Handset is locked.
	Orange illumination	Handset is unlocked.
10 buttons with lock	Not illuminated	Handset is locked.
	Green illumination	Handset is unlocked (except function Trendelenburg).
	Orange illumination	Handset is unlocked (including function Trendelenburg).

Lock positions:

Lock position	Meaning
	Locked – all positioning functions of handset are locked
	Unlocked – all positioning functions of handset are unlocked (except Trendelenburg function) <b>NOTE:</b> This position is only available on the 10 buttons version of Iprox 2 handset.
	Unlocked – all positioning functions of handset are unlocked

## 10.2.3 Position Buttons



### **WARNING!**

#### **Risk of injury due to moving parts!**

- ▶ Ensure no body parts are trapped between moving parts of the bed and mattress platform.
- ▶ Ensure no persons or body parts are close to the bed or accessories (e.g. infusion stand, lifting pole) when the mattress platform is moving.



### **CAUTION!**

#### **Material damage due to moving parts!**

- ▶ Ensure no objects (e.g. cables) are trapped between moving parts of the bed and mattress platform.
- ▶ Ensure no objects are close to the bed or accessories (e.g. infusion stand, lifting pole) when the mattress platform is moving.

#### **To set the backrest position:**

- ▶ Ensure the handset is unlocked (lock indicator is illuminated – if the handset is equipped with lock).
- ▶ Press and hold button of respective function until the required position is reached.

#### **To set the thighrest position:**

- ▶ Ensure the handset is unlocked (lock indicator is illuminated – if the handset is equipped with lock).
- ▶ Press and hold button of respective function until the required position is reached.

#### **To set the mattress platform height:**

- ▶ Ensure the handset is unlocked (lock indicator is illuminated – if the handset is equipped with lock).
- ▶ Press and hold button of respective function until the required position is reached.

#### **To set the auto-contour position:**

- ▶ Ensure the handset is unlocked (lock indicator is illuminated – if the handset is equipped with lock).
- ▶ Press and hold button of respective function until the required position is reached.

#### **Trendelenburg / Anti-Trendelenburg position:**

After pressing Trendelenburg position button the mattress platform will tilt with head end down.

After pressing Anti-Trendelenburg position button the mattress platform will tilt with foot end down.

#### **To set Trendelenburg and Anti-Trendelenburg position:**

- ▶ Ensure the handset is unlocked (lock indicator is illuminated – if the handset is equipped with lock).
- Press and hold button of respective function until the required position is reached.

#### **If the patient's condition requires it, prevent the patient from adjusting the bed by:**

- ▶ Disabling functions.
- ▶ Unplugging the handset.

**NOTE:** The nursing staff decides whether the patient can adjust the bed.

## 10.2.4 CPR backrest release



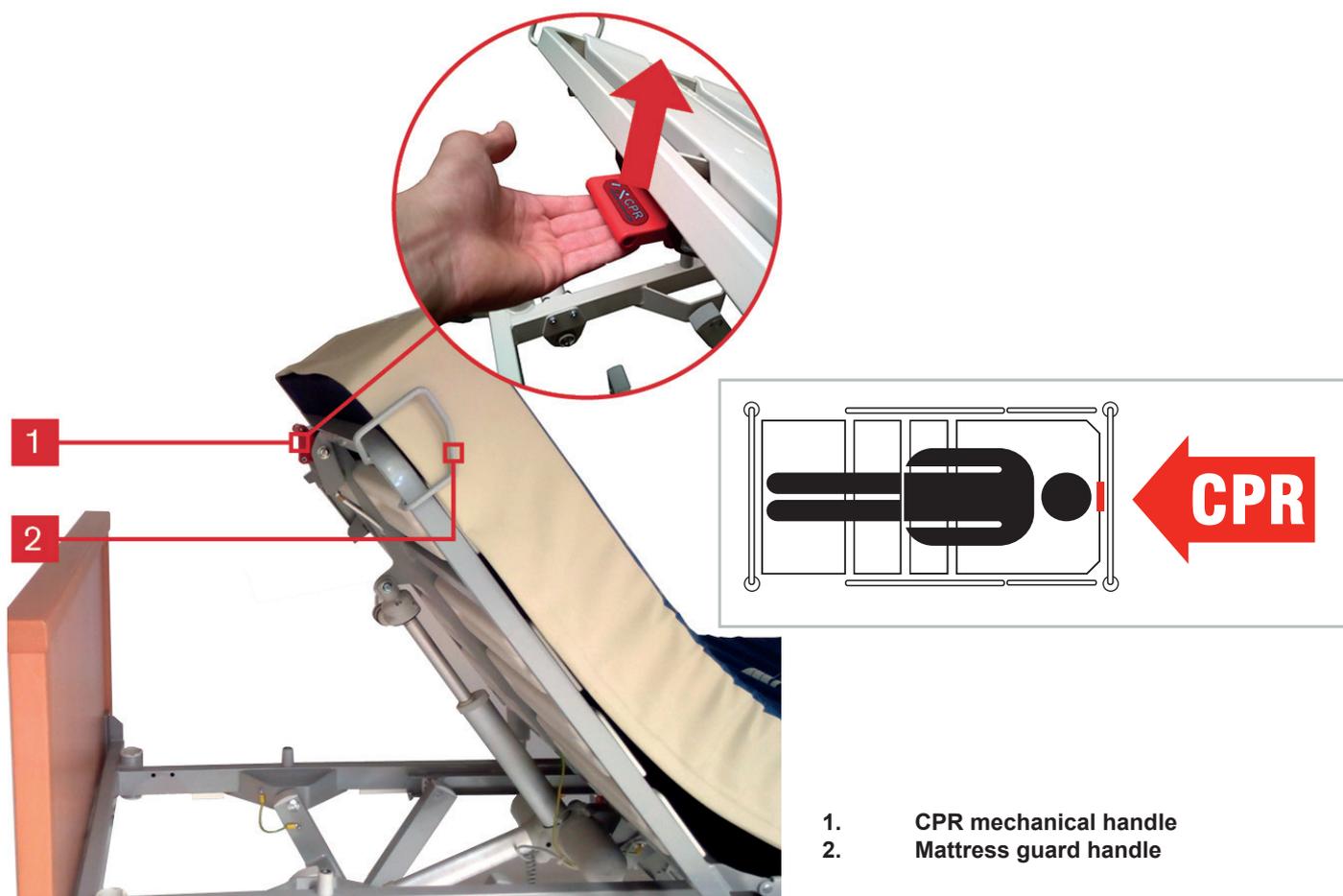
**WARNING!**

**Risk of injury due to lowering the backrest too quickly!**

- ▶ Ensure single collapsible siderails are in their lowest position.
- ▶ Ensure split plastic siderails are in their highest position.
- ▶ Ensure there are no body parts between siderails and backrest.
- ▶ Press the backrest down only by the mattress guard handle or the siderail.

### Eleganza 1 LE CPR (standard)

The bed permits quick mechanical lowering of the backrest for emergency resuscitation (CPR) procedures. The CPR is placed in the middle of the backrest frame behind head of the patient.



- 1. CPR mechanical handle
- 2. Mattress guard handle

Fig. . CPR Backrest release

**Set the CPR position as follows:**

**Grab and hold backrest using:**

- ▶ Mattress guard handle (2).
- ▶ Upper part of the siderails (in case the split siderails are in upper position)

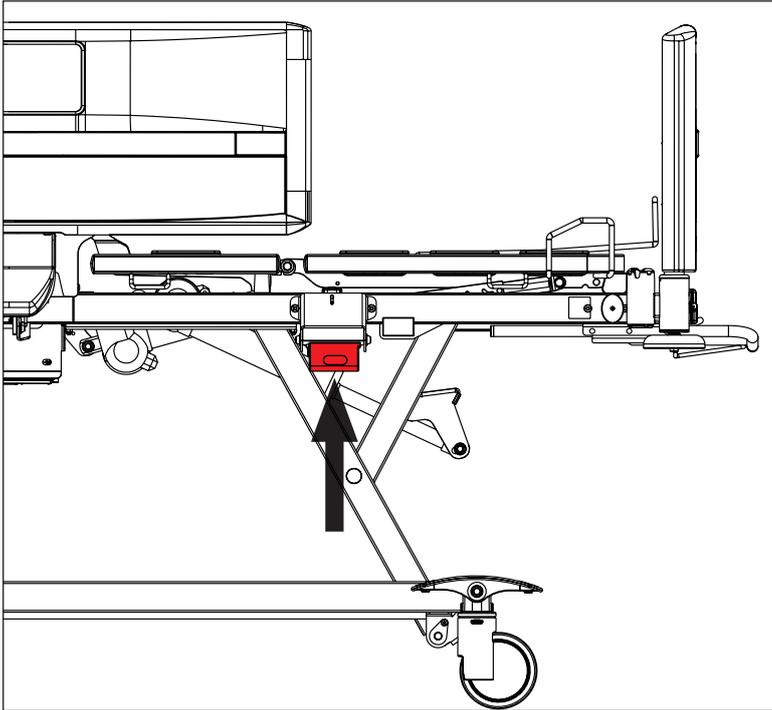
Pull and hold release handle 1.

**Press the backrest down using:**

- ▶ Mattress guard handle (2)
- ▶ Upper part of the siderails (in case the split siderails are in upper position)

## 10.2.5 Eleganza 1 CPR (optionally available)

Eleganza 1 CPR is optionally available. It replaces standard Eleganza 1 LE CPR. The CPR is located on the mattress platform frame under the thighrest part. CPR allows quick mechanical lowering of the backrest for emergency resuscitation (CPR) procedures.



*Fig. Position of CPR lever*

### **Set the CPR position as follows:**

- Press and hold lever upwards.
- Press the backrest down using:
  - ▶ Mattress guard handle.
  - ▶ Upper part of the siderails (in case the split siderails are in upper position)

## 10.3 Mattress Platform

### 10.3.1 Auto-Regression (Ergoframe®)

To eliminate pressure on the pelvis of the patient as it is raised, the backrest moves in the opposite direction when the bed is adjusted.

**Benefits of Ergoframe®:**

- Prevents decubitus.
- Increases the sitting area by 16 cm in the maximum upright position.

### 10.3.2 Mechanical Adjustment of Calfrest

You can adjust the calfrest mechanically. A special locking mechanism allows the position to be adjusted.

**To raise the calfrest:**

- ▶ Pull on calfrest handle until the desired position is reached.

**To lower the calfrest:**

- ▶ Hold handle and pull the calfrest to the upper most position

### 10.3.3 Mattress Platform Extension/Shortening



**WARNING!**

**Damage to property due to excess load!**

- ▶ Ensure nobody sits on the extended bed end.



*Fig. Bed extension by 14,5 cm.*



*Fig. Bed without bed extension*

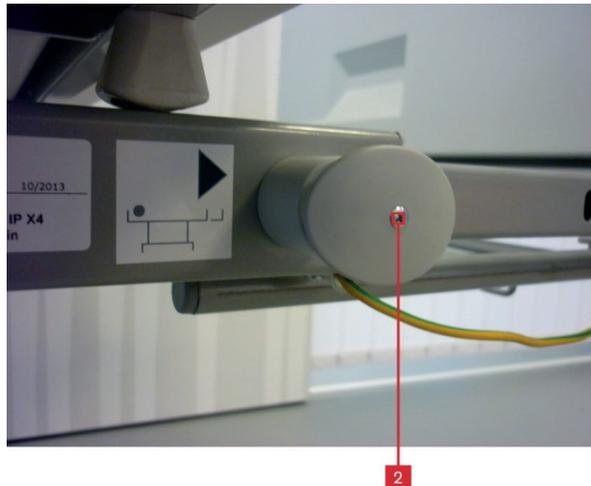
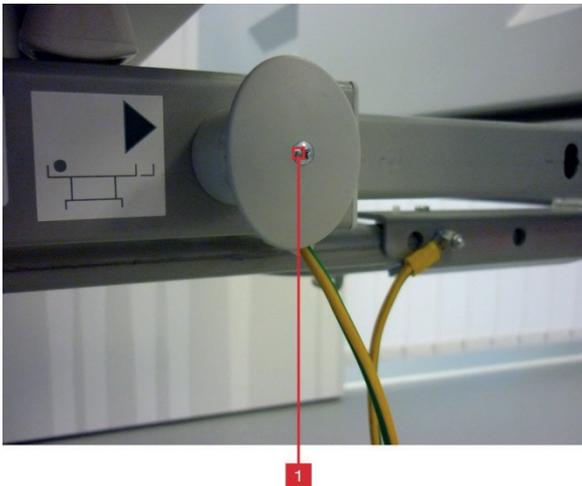


Fig. Mattress Platform Extension Safety Lock

- 1. Locked
- 2. Unlocked (it is possible to set up bed extension)

**To lengthen/shorten the bed:**

- ▶ Pull out the safety catches 1 at the foot end of both sides of the frame.
- ▶ Turn the safety catches 1 by 90° (2).

**The safety lock is released:**

- ▶ Pull the foot board out as far as it will go.
- ▶ Adjust wire mattress retainer located under the mattress to bed extension position.
- ▶ Turn the safety lock by 90° and push them in.
- ▶ Ensure that both of the safety locks are locked properly.

**NOTE:** In the event of incorrect closure of the safety lock, move the foot board of the bed until the locking point is reached.



Fig. Wire mattress retainer (left: standard position, right: position with extended bed)

## 10.4 Siderails



**WARNING!**

**Risk of injury due to crushing!**

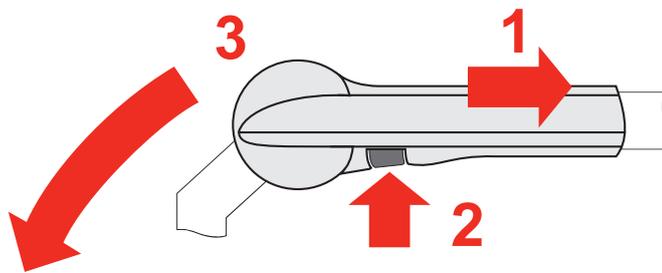
- ▶ Ensure that there are no objects or body parts between siderail and mattress platform when folding the siderail up or down.
- ▶ Ensure that no body part or object are under the siderail when folding the siderail down.
- ▶ It is necessary to take extra care and attention when locking the siderails in the top position. Hospital staff must ensure the siderail is locked in its highest position by pushing the siderail to head and foot end of the bed. The risk of spontaneous folding of the siderail may occur when the siderail is not properly locked and it can injure the patient, staff or the third parties.

**Model variants:**

- Without siderails
- With single collapsible siderails – controlled from the top
- With single collapsible siderails – controlled from the bottom
- With split plastic siderails
- With full length siderails

### 10.4.1 Single collapsible siderails – controlled from the top

The single collapsible siderails are components of the bed. The siderails cannot be dismantled. The hospital personnel is responsible that siderails are locked in the highest position when the patient is on the bed.



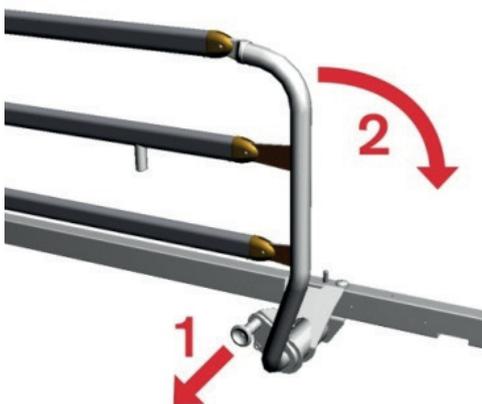
*Fig. Releasing mechanism of the single collapsible siderails with top control*

**To fold siderails down:**

- ▶ Take hold of release mechanism and push siderail towards head end to unlock locking system 1.
- ▶ Press button 2 to unlock.
- ▶ Fold siderail down as required 3. Do not let the siderail fall down when it is unblocked.
- ▶ To fold the siderail up push the siderail up. Siderail will click into place and lock automatically.

### 10.4.2 Single collapsible siderails – controlled from the bottom

The single collapsible siderails are components of the bed. The siderails cannot be dismantled. The hospital personnel is responsible that siderails are locked in the highest position when the patient is on the bed.



**To fold siderails down:**

- ▶ Pull out the lever 1.
- ▶ Fold siderail down as required 2. Do not let the siderail fall down when it is unblocked.
- ▶ To fold siderail up push the siderail up. Siderail will click into place and lock automatically (you will hear audible 'click').

*Fig. Releasing mechanism of the single collapsible siderails with bottom control*

## 10.4.3 Split plastic siderails (SR22)



### WARNING!

#### Risk of injury due to patient falling out of bed!

- ▶ Ensure that folded-up siderails are securely anchored.
- ▶ Press against siderails from inside in order to check stability.
- ▶ Hospital personnel are responsible for ensuring siderails are folded-up when the bed is occupied.

The split plastic siderails are components of the bed, the siderails cannot be removed.

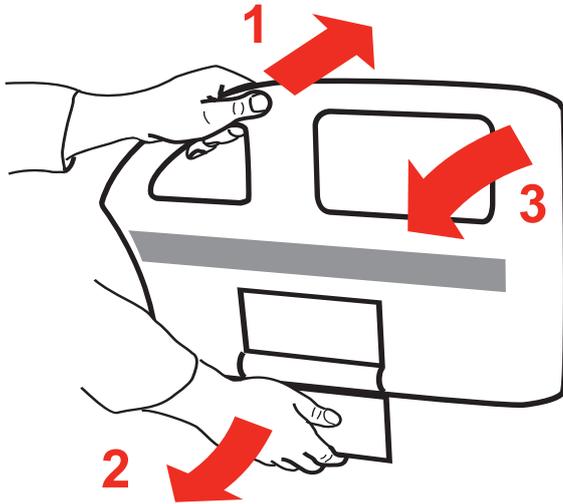


Fig. Releasing mechanism of the split plastic siderails

### To fold siderails down:

- ▶ Take hold of the siderail's top bar and push towards mattress platform 1.
- ▶ Pull out locking mechanism 2 to unlock.
- ▶ Fold siderail up or down 3 as required. Do not let the siderail fall down when it is unblocked.
- ▶ The siderail will automatically lock in its place when folded up (you will hear audible 'click').

**NOTE:** In certain cases (e.g. when there is no weight on the siderails), it is possible to unlock the split plastic siderail only by pulling out the locking mechanism 2. This does not mean that the mechanism is faulty. The manufacturer recommends always using the procedure described above.

### To fold siderails up:

- ▶ Grip the siderail by the upper part for its handle.
- ▶ Pull siderail up until it latches.
- ▶ The locking of each siderail is indicated by an audible 'click' when locked in place.
- ▶ Ensure that the siderail is locked properly.

### 10.4.4 Split plastic siderails (SR46)

The full length siderails are components of the bed. The siderails cannot be dismantled. The hospital personnel is responsible that siderails are locked in the highest position when the patient is on the bed.

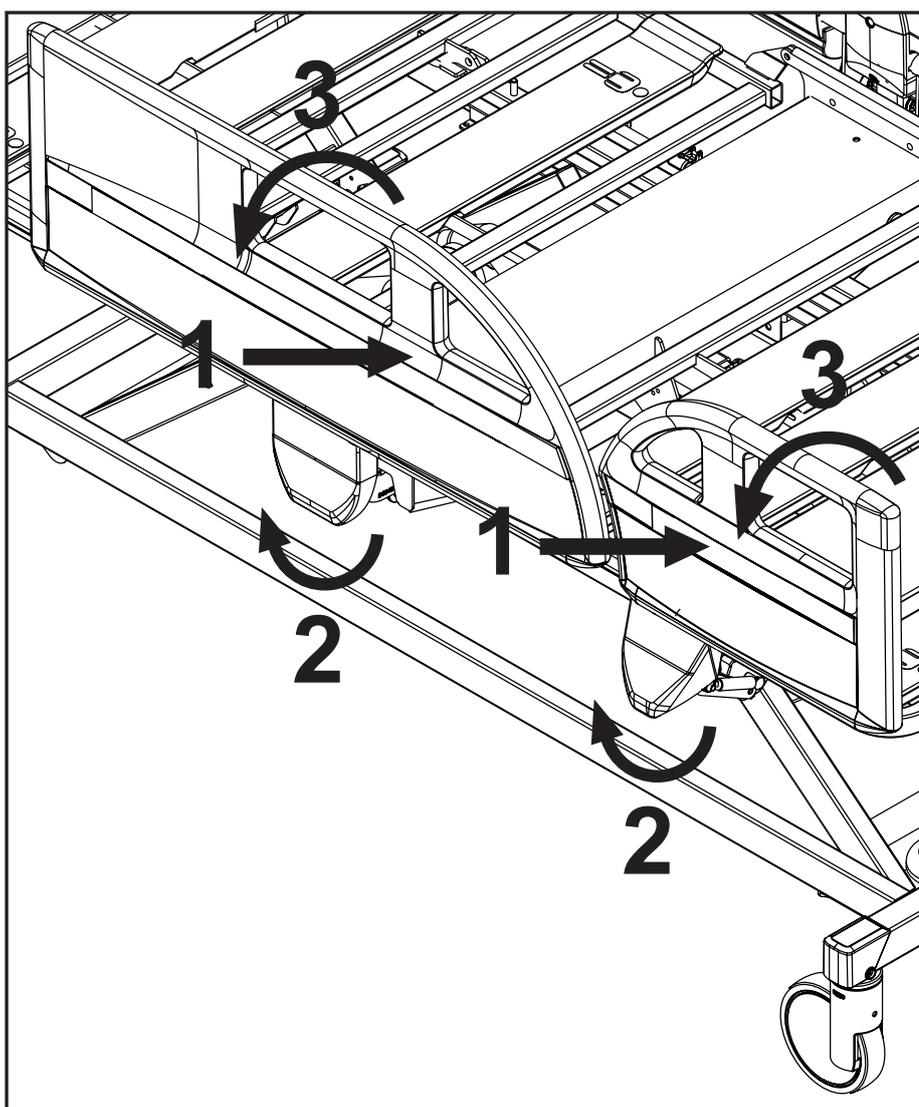


**WARNING!**

**Risk of injury due to patient falling out of bed!**

- ▶ Ensure that folded-up siderails are securely anchored.
- ▶ Press against siderails from inside in order to check stability.
- ▶ Hospital personnel are responsible for ensuring siderails are folded-up when the bed is occupied.

The split plastic siderails are components of the bed, the siderails cannot be removed.



*Fig. Releasing mechanism of the split plastic siderails*

**To fold siderails down:**

- ▶ Take hold of the siderail handle and push siderail towards mattress platform 1.
- ▶ Pull out locking mechanism 2 to unlock.
- ▶ Fold siderail down 3. Do not let the siderail fall down when it is unblocked.

**To fold siderails up:**

- ▶ Grip the siderail by the siderail handle.
- ▶ Pull siderail up until it latches.
- ▶ The locking of each siderail is indicated by an audible 'click' when locked in place.
- ▶ Ensure that the siderail is locked properly.

## 10.5 Castor Control and Bed Transport



### CAUTION!

#### Material damage due to incorrect transport or involuntary movement!

- ▶ Prior to assembly, disassembly and maintenance, ensure the castors are locked.
- ▶ Ensure the castors are locked while the bed is occupied and/or not being transported.
- ▶ Prior to transport, ensure that bed is disconnected from mains.
- ▶ Put mains cable on hook provided for transport.
- ▶ Have the bed transported only by nursing or trained personnel.



### CAUTION!

#### Objects on undercarriage can damage the bed!

- ▶ Do not place any objects on the undercarriage or in the space under the mattress platform.

#### To move the bed:

- ▶ Adjust the bed height to at least 20cm below maximum height.

Push the bed using handles on head or foot board.

### 10.5.1 Central braking control

#### Double-sided Castor Control Levers (optional):

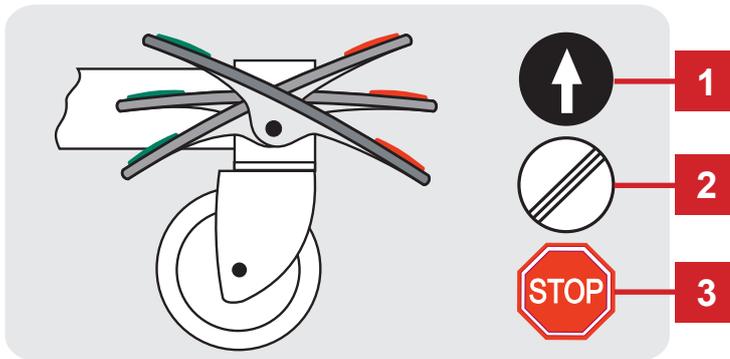


Fig. Double-sided Castor Control Lever

The central braking system facilitates movement of the bed by a single person. The bed has a main lock control lever for the four castors. The brakes are at the foot end of the undercarriage.

#### Castor control with central braking system:

1. Forward Movement: The front left castor is locked. The bed moves straight ahead. If the bed is equipped with a fifth castor, this castor determines the direction of movement.
2. Unrestricted Movement: All of the castors are unlocked.
3. Braked: All of the castors are locked.

## Simple Castor Control Levers (optional):

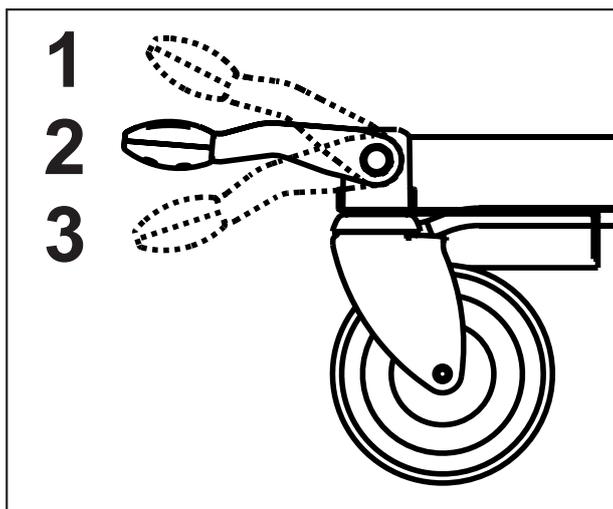
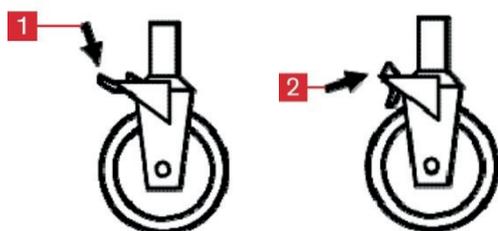


Fig. Simple Castor Control Lever

### Castor control with central braking system:

1. Braked: All of the castors are locked.
2. Unrestricted Movement: All of the castors are unlocked.
3. Forward Movement: The front left castor is locked. The bed moves straight ahead. If the bed is equipped with a fifth castor, this castor determines the direction of movement.

## 10.5.2 Individual braking control



### Castor control with individual braking system:

- ▶ Brake all castors of the bed by pressing the lever 1 by your foot – castor is locked.
- ▶ Unbrake all castors of the bed by lifting up the lever 2 by your foot – castors are unlocked.

## 11 Equipment

### 11.1 Accessory Rails



Fig. Accessory Rail

#### Load capacity:

- ▶ Maximum load of 5 kg without leverage.
- ▶ Maximum load of hook pair 10 kg.

#### Accessories for hanging on the accessory rail:

- ▶ Cannula holder
- ▶ Urine bag holder
- ▶ Urine bottle basket
- ▶ DIN steel bar

## 12 Mattress

Eleganza 1 LE bed is designed for the following mattress dimensions:

- 200 cm x 90 cm x 14 cm

The manufacturer recommends the use of the following mattress systems on the Eleganza 1 LE bed:

- ▶ EFFECTACARE 10 (4PPA51100AS)
- ▶ EFFECTACARE 20 (4PPB51100AS)
- ▶ PRIMACARE 10 (4PPD51100AS)
- ▶ PRIMACARE 20 (4PPE51100AS)

## 13 Accessories



**WARNING!**

**Risk of injury due to incompatible accessories!**

- ▶ Only the manufacturer's original accessories can be used.



**WARNING!**

**Risk of injury due to damaged accessories!**

- ▶ Use exclusively accessories in perfect condition.

**NOTE:** The manufacturer assumes no responsibility for the use of accessories not approved by the manufacturer.

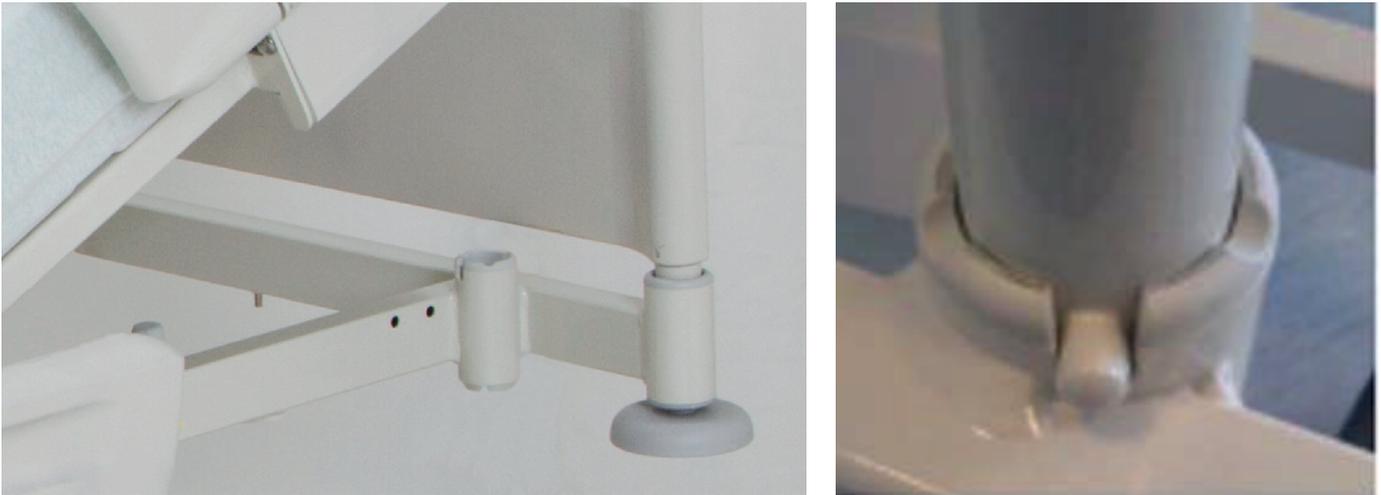
**NOTE:** All accessories conform to IEC 60601-2-52:2010.

**The following accessories are suitable for the Eleganza 1 LE:**

- Lifting pole
  - powder-coated
  - chrome-plated
- Triangular holder, grey plastic
  - for lifting pole
  - for lifting pole, adjustable by retractor
- IV holder
  - for lifting pole, 3 hooks, powder-coated
  - for lifting pole, 3 hooks, stainless steel
  - for lifting pole, 4 hooks, chrome-plated
- Telescopic IV pole
  - 4 plastic hooks, chrome-plated
  - 4 plastic hooks, chrome-plated, S-shaped top part, with lock against unwanted rotation
  - 4 metal hooks, chrome-plated, lock against unwanted rotation
  - 4 metal hooks, stainless steel, S-shaped top part, lock against unwanted rotation
- Infusion bottle basket
  - for IV pole, stainless steel
- IV pump holder
  - cross-shaped, chrome-plated
- DIN bar for accessories
  - chrome-plated
- Urine bag holder
  - self-adjusting level, powder-coated
- Cannula holder
  - 5 metal hooks, powder-coated
- Writing shelf
  - white, for plastic or metal head board and foot board
- Name holder
  - plastic, for plastic head board and foot board
- Chart holder
  - plastic, for plastic head board and foot board
- Protector®
- Stand up handle
- Extender®
  - Extender® for siderails controlled from top (SR55)
  - Extender® for siderails controlled from bottom (SR57)
- Extension H

## 13.1 Lifting Pole

It is possible to equip the bed with lifting pole. The lifting pole must be placed only to the bushing on the head end.



*Fig. Bushing for lifting pole and infusion stand*

### Lifting pole variants:

- Lifting pole for beds with fixed bed end

### To ensure safe use of the lifting pole:

- ▶ Never exceed the maximum load of 75 kg of lifting pole.
- ▶ Never use the lifting pole for rehabilitation exercises.
- ▶ To prevent the bed from tipping over, ensure the lifting pole does not project out from the bed.
- ▶ Replace plastic handle every 4 years.

### Lifting pole positions:

- Over the backrest (working position).
- Parallel to the head board (when not in use).

### To install the lifting pole:

- ▶ Insert lifting pole into corresponding bushings at the head end of the bed (corners).
- ▶ Ensure the safety pin locks are in place.

A plastic grab handle with an adjustable strap is attached to the lifting pole.

**NOTE:** The date of manufacture is marked on the grab handle.

**NOTE:** LINET® recommends replacing the plastic grab handle every four years.

## 13.2 Infusion Stands



**WARNING!**

**Risk of injury due to use of unsuitable accessories!**

- ▶ Use infusion stands exclusively for accessories listed in the instructions for use.
- ▶ Only mount an infusion pump to the lower (wider) telescopic section of an infusion stand above the head board / foot board.
- ▶ Never mount an infusion pump to the upper (thinner) telescopic section of an infusion stand.
- ▶ Ensure the infusion pump will not collide with any movable parts of the bed (especially Backrest part) or with the patient. This must be verified during installation.
- ▶ Do not use the infusion stand as driving/pushing device during the bed transport.

It is possible to insert infusion stands into the bushings at the head and foot ends of the bed.

- ▶ Use exclusively infusion stands with 4 hooks for hanging IV bags or baskets for intravenous solutions.
- ▶ Ensure that the weight-bearing capacity of the 4 hooks is not exceeded.  
Capacity per hook: 5 kg
- ▶ Ensure that the infusion stand's weight-bearing capacity is not exceeded.

## 13.3 Name holder

Name holder is used for placing patient's name on it. Name holder must be placed under the head board or foot board handles so it will not collide with movable parts of the bed. This must be verified after installation of name holder.

## 13.4 Urinary bottle holder



**WARNING!**

**Risk of collision when folding down the siderails!**

- ▶ Ensure the neck of the bottle is facing to foot or head end of the bed so it will not collide when folding down the siderails.



*Fig. Urine bottle holder – correct fitment*

## 13.5 Eleganza Protector®



**WARNING!**

**Risk of injury due to patient falling out of bed!**

- ▶ Ensure that Eleganza Protector® is securely anchored to the bushing.
- ▶ To check stability, push the protector up without touching the release button.
- ▶ Always check that the siderail is properly locked.



**WARNING!**

**Risk of damage to the bed or patient injury!**

- ▶ Do not mount head board or foot board to accessory bushing (3).
- ▶ Do not mount lifting pole to accessory bushing (3).
- ▶ Do not use protector with bed extension.

Eleganza Protector® is not a component of the bed. Eleganza Protector® is optionally available.

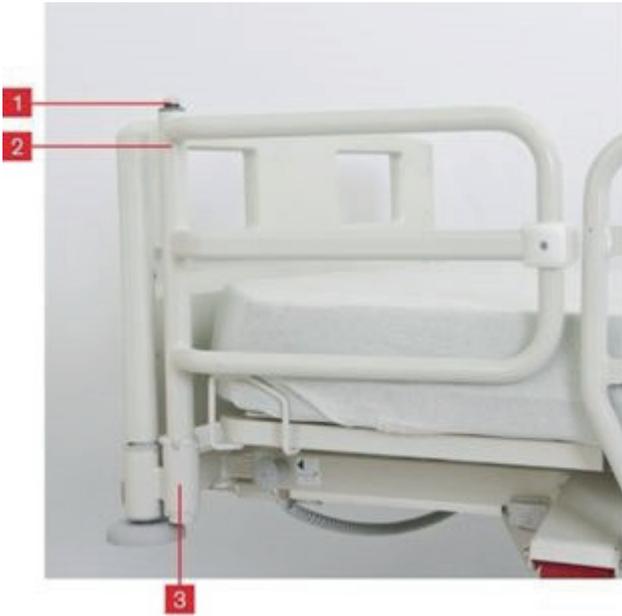


Fig. Closed Eleganza Protector®



Fig. Opened Eleganza Protector®



**WARNING!**

**Risk of injury due to patient falling out of bed!**

- ▶ Ensure that Eleganza Protector® is securely anchored to the bushing.
- ▶ To check stability, push the protector up without touching the release button.
- ▶ Always check that the siderail is properly locked.



**WARNING!**

**Risk of damage to the bed or patient injury!**

- ▶ Do not mount head board or foot board to accessory bushing (3).
- ▶ Do not mount lifting pole to accessory bushing (3).
- ▶ Do not use protector with bed extension.

**Mount Eleganza Protector® to closed position as follows:**

- ▶ Put the tube of protector (2) into bushing near foot end of the bed (3) so the protector is facing the siderail.
- ▶ Safety pin must be locked in place.

**Mount Eleganza Protector® to open position as follows:**

- ▶ Put the tube of protector (2) into bushing near foot end of the bed (3), so the protector is facing out from bed.
- ▶ Safety pin must be locked in place.

**Dismount Eleganza Protector® as follows:**

- ▶ Press and hold the releasing button (1).
- ▶ Push the protector up.

**NOTE:** Protector® cannot be used if the bed is equipped with plastic E3 head board and foot board.

## 13.6 Siderail extension – „Extender®“ for siderails controlled from top (SR55)



**WARNING!**

**Risk of injury or collision due to incorrect use!**

- ▶ The Extender® can be used with single collapsible siderails only. The manufacturer will not be held responsible for any consequences if the Extender® is used with other types of siderails.
- ▶ Movement of the bed must be considered if the Extender® is installed.
- ▶ Use of the Extender® in a manner other than stated in the instructions for use is on the responsibility of personnel.  
The manufacturer shall not be held liable for incorrect use!

It is recommended to use Extender® (model number SR55) if a mattress higher than the recommended height was placed on the bed. The Extender® is used to raise the height of the siderails and helps to secure patients safety. The Extender® is designed for single collapsible siderails only.

**It is recommended to use Extender® with the following mattresses:**

- Passive mattress: higher than 16 cm, with maximum height 26,5 cm
- Active mattress: with maximum height 26,5 cm
  - Virtuoso

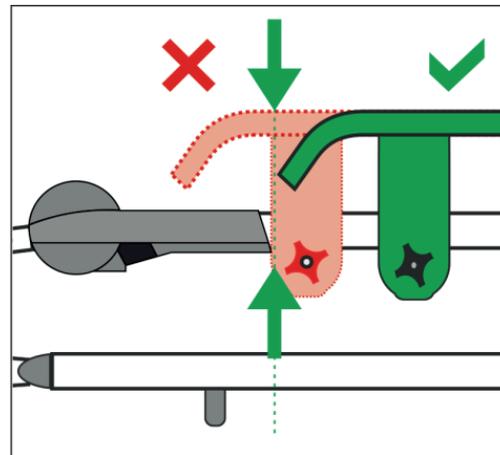
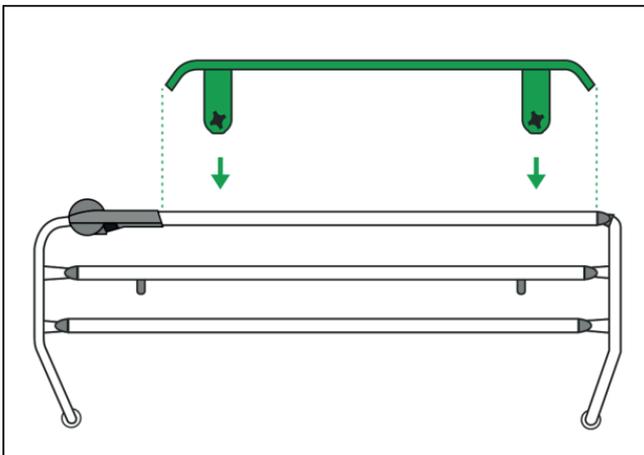


Fig. Installation of Extender®

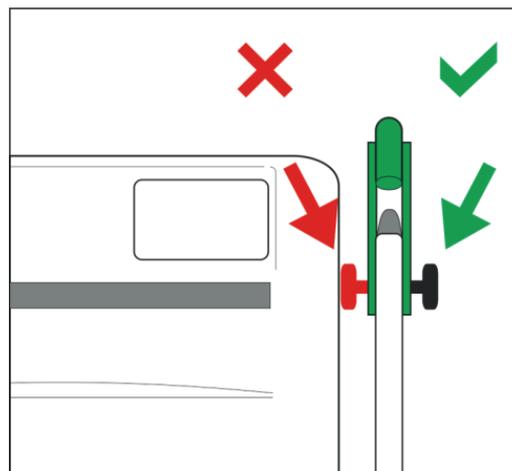
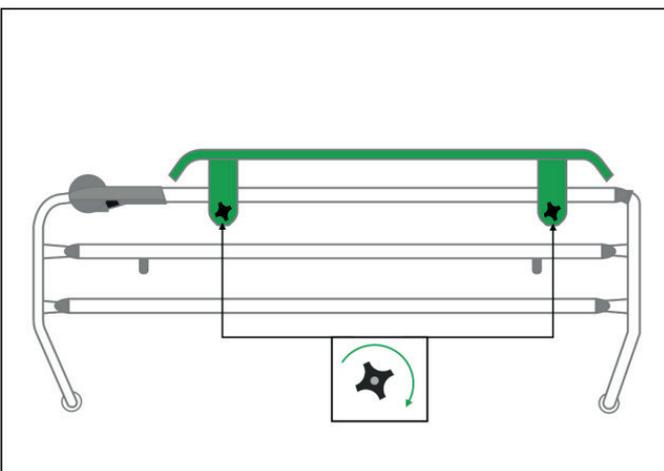


Fig. Securing Extender®

**Install the Extender® as follows:**

- ▶ Place the Extender® (without securing screws) on the upper edge of the siderail. Siderails must be in upper position. Square hole is pointed into the mattress platform.
- ▶ Insert screws from the inside of the bed thru the securing holes in Extender®.
- ▶ Secure the screws with the plastic rosette nuts and tighten. The rosette nuts are pointed outside from the bed.
- ▶ Check if the Extender® is secured correctly by pushing it sideways.

## 13.7 Siderail extension – „Extender®“ for siderails controlled from bottom (SR57)



### WARNING!

#### Risk of injury or collision due to incorrect use!

- ▶ The Extender® can be used with single collapsible siderails only. The manufacturer will not be held responsible for any consequences if the Extender® is used with other types of siderails.
- ▶ Movement of the bed must be considered if the Extender® is installed.
- ▶ Use of the Extender® in a manner other than stated in the instructions for use is on the responsibility of personnel.  
The manufacturer shall not be held liable for incorrect use!

It is recommended to use Extender® (model number SR57) if a mattress higher than the recommended height was placed on the bed. The Extender® is used to raise the height of the siderails and helps to secure patients safety. The Extender® is designed for single collapsible siderails only.

#### It is recommended to use Extender® with the following mattresses:

- Passive mattress: higher than 16 cm, with maximum height 26,5 cm
- Active mattress: with maximum height 26,5 cm
  - Virtuoso

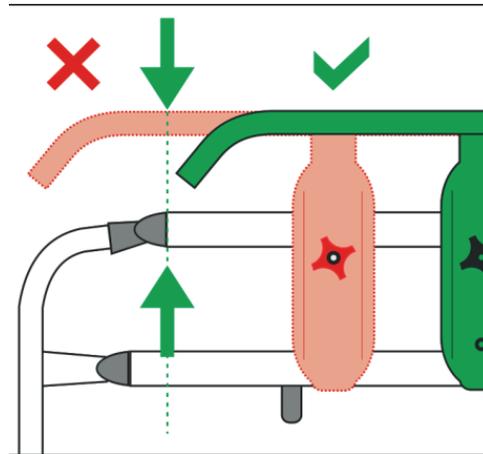
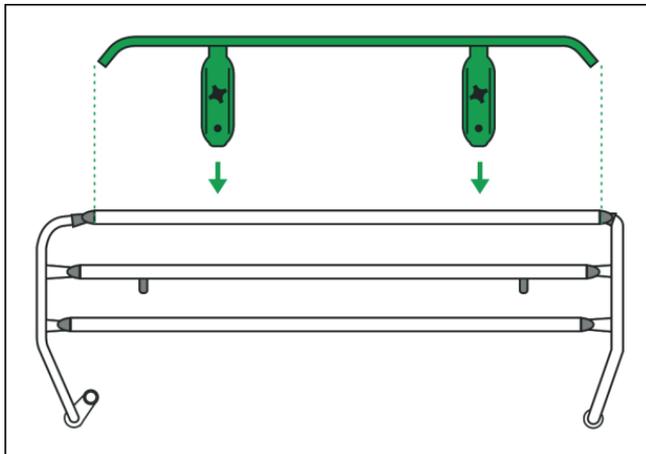


Fig. Installation of Extender®

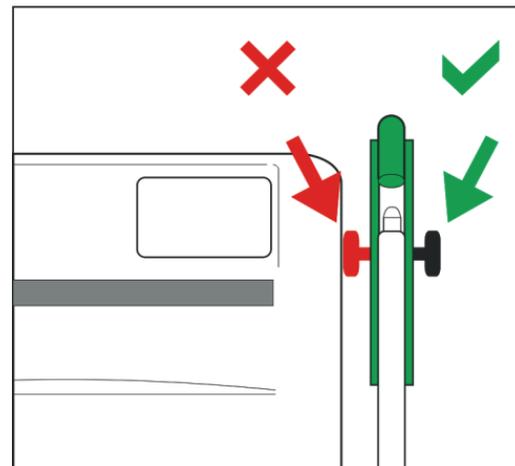
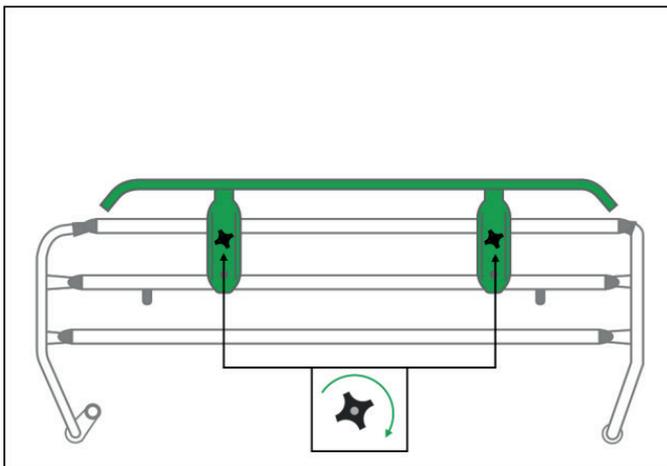


Fig. Securing Extender®

#### Install the Extender® as follows:

- ▶ Place the Extender® (without securing screws) on the upper edge of the siderail. Siderails must be in upper position. Square hole is pointed into the mattress platform.
- ▶ Insert screws from the inside of the bed through the securing holes in Extender®.
- ▶ Secure the screws with the plastic rosette nuts and tighten. The rosette nuts are pointed outside from the bed.
- ▶ Check if the Extender® is secured correctly by pushing it sideways.

## 14 Cleaning/Disinfection



**WARNING!**

**Risk of injury when working on the bed!**

- ▶ Always disable function buttons when cleaning between undercarriage and mattress platform.
- ▶ Prior to cleaning, ensure the bed is disconnected from the mains.
- ▶ Prior to assembly, disassembly, cleaning and maintenance, ensure that the adjustment function on the handset is locked.



**WARNING!**

**Material damage due to incorrect cleaning/disinfection!**

- ▶ Do not use washing machines.
- ▶ Do not use pressure or steam cleaners.
- ▶ Use exclusively the recommended cleaning agents.
- ▶ Follow the instructions and observe the disinfection quantity recommended by the manufacturer.
- ▶ **Check if used cleaning agents and disinfectants are compatible with materials that the product consists of! For information see the following table.**

BED COMPONENTS THAT ARE INTENDED TO BE CLEANED	MATERIALS (SURFACES OF THE MENTIONED BED COMPONENTS)	
Do not clean what is not mentioned in this column!	Competent user is responsible for check if used cleaning agents and disinfectants are compatible with mentioned materials!	
Head board and foot board	Plastic version: Polypropylene (PP) + Lacquered steel	Tube version with HPL board: High Pressure Laminate (HPL) + Lacquered steel
Head siderails and foot siderails	plastic siderails with releasing mechanism based on tipping down: Polypropylene (PP) + Polyamide (PA) + Lacquered steel + Acrylonitrile butadiene styrene (ABS)	single collapsible siderails (3/4 siderails): Polypropylene (PP) + Acrylonitrile butadiene styrene (ABS) + Lacquered aluminium (Al) plastic siderails with releasing mechanism based on lifting towards the user: Polypropylene (PP) + Lacquered steel + Acrylonitrile butadiene styrene (ABS)
Mattress support platform covers (Backrest)	standard: Polypropylene (PP)	psychiatric version: High Pressure Laminate (HPL)
Mattress support platform covers (Thighrest, Calfrest)	standard: Polypropylene (PP)	psychiatric version: High Pressure Laminate (HPL)
Seat section	Lacquered steel	
Castors	Polyurethane (PUR) + Polypropylene (PP)	
Castor control levers	castor control lever with two pedals: Polyamide (PA6) + Thermoplastic elastomer (TPE)	castor control lever with one pedal - Polyamide (PA6) + Lacquered steel
Frame of the mattress support platform	Polyamide (PA6) + Lacquered steel	
Undercarriage	Acrylonitrile butadiene styrene (ABS) + Lacquered steel	
Corner covers	Acrylonitrile butadiene styrene (ABS)	
Corner bumpers	Polypropylene (PP)	
Keyboards (Attendant Control Panel, Handset, control elements integrated in the siderails)	Polyethylene terephthalate (PET)	
CPR levers	Polyamide (PA6)	
Labels	Polyethylene terephthalate (PET)	
Accessory rail	Polyoxymethylene (POM) + Lacquered steel	
Actuators	Polyamide (PA6) + Aluminium (Al)	

## For safe and gentle cleaning:

- ▶ Disconnect the bed from the mains.
- ▶ Do not use any strong acids or bases (optimum pH range 6 - 8).
- ▶ Only use detergents suitable for cleaning medical equipment.
- ▶ Do not use abrasive powders, steel wool, or other material and cleaning agents that might damage the surface of the equipment.
- ▶ Never use detergents with solvents that might affect the structure and consistency of the plastics (benzene, toluene, acetone, etc.).
- ▶ Clean the bed with a damp cloth (not wet).
- ▶ Clean electrical components carefully and allow them to dry completely.

## Cleaning agents

LINET® recommends the following cleaning agents:

Cleaning Agents	Manufacturer
Mikrozid, Terralin Protect, Thermosept	Schülke & Mayr
Bacillol AF, Bacillol Rasant, Dismozon Pur, Microbac Forte, Neodisher Dekonta	BODE Chemie
Lysoformin 3000, Lysoform Spezial	LYSOFORM
Incidin plus, Incidin rapid	Ecolab
Perform, TPH protect,	Schülke

## 14.1 Preparing for Cleaning

- ▶ Put the mattress platform in the highest position.
- ▶ Adjust the back and thighrests so that the reverse sides are accessible.
- ▶ Disable the function buttons on the control elements using the handset.
- ▶ Disconnect the bed from the mains.
- ▶ Move the bed to the location where it will be cleaned.
- ▶ Lock the brakes on the bed.

## 14.2 Cleaning

### 14.2.1 Daily Cleaning

#### Clean the following bed parts:

- ▶ All control elements for adjusting the bed
- ▶ All handles
- ▶ Back- and thighrest handles
- ▶ CPR release handle
- ▶ Head and foot board
- ▶ Siderails (folded up)
- ▶ Freely accessible mattress surface
- ▶ Accessory rails

## 14.2.2 Cleaning before Changing Patients

### Clean the following bed parts:

- ▶ All control elements for adjusting the bed
- ▶ All handles
- ▶ Back- and thighrest handles
- ▶ CPR release handle
- ▶ Head and foot board
- ▶ Siderails (folded up)
- ▶ Freely accessible mattress surface
- ▶ Accessory rails
- ▶ All plastic mattress platform covers
- ▶ Undercarriage frame with castor covers
- ▶ Linear motors
- ▶ Mattress on all sides
- ▶ Freely accessible metal parts on the mattress platform
- ▶ Cable ducts
- ▶ Lifting pole bushing
- ▶ Infusion stand bushing
- ▶ Wall deflection bumpers
- ▶ Castors
- ▶ Brakes

## 14.2.3 Complete Cleaning and Disinfection / Cleaning before first use

### Clean the following bed parts:

- ▶ All control elements for adjusting the bed
- ▶ All handles
- ▶ Back- and thighrest handles
- ▶ CPR release handle
- ▶ Head and foot board
- ▶ Siderails (folded up)
- ▶ Freely accessible mattress surface
- ▶ Accessory rails
- ▶ All plastic mattress platform covers
- ▶ Undercarriage frame with castor covers
- ▶ Linear motors
- ▶ Mattress on all sides
- ▶ Freely accessible metal parts on the mattress platform
- ▶ Cable ducts
- ▶ Lifting pole bushing
- ▶ Infusion stand bushing
- ▶ Wall deflection bumpers
- ▶ Castors
- ▶ Brakes

## 15 Troubleshooting



### DANGER!

#### Danger to life due to electric shock!

- ▶ If a fault occurs ensure the electric motor, power box and other electrical parts checked by qualified personnel only.
- ▶ Do not open protective covers of the electric motor or power box.

Error/Fault	Cause	Solution
Adjusting with position buttons not possible	Handset is locked.	Unlock the handset.
	Drive motors have no power Defective drive motors	Check the mains connection. Notify the service department of manufacturer.
	Plug inserted incorrectly	Insert the mains plug correctly.
	Faulty power box	Notify the service department of manufacturer.
	Faulty control element	Notify the service department of manufacturer.
Faulty mattress platform height/tilt adjustment	There is an object on the undercarriage cover	Remove the object.
	Function disabled on supervisor panel	Enable disabled function.
	Drive motors have no power Defective drive motors	Check the mains connection. Notify the service department of manufacturer.
	Plug inserted incorrectly	Insert the mains plug correctly.
	Faulty power box	Notify the service department of manufacturer.
	Faulty control element	Notify the service department of manufacturer.
Lowering backrest from the upright position not possible	Object under the backrest or in the drive mechanism	Remove the obstacle
	CPR handle is defective	Notify the service department of manufacturer.
Adjusting siderails not possible	The siderail lock is dirty	Clean the locking mechanism.
	Locking handle is defective	Notify the service department of manufacturer.
Faulty brakes	The brakes are blocked by dirt	Clean the brake system.
	The brake mechanism is defective	Notify the service department of manufacturer.
The head and foot boards cannot be inserted	The head or foot board is in the wrong position	Check locking mechanism. Position head or foot board correctly.
	Defective mechanism	Notify the service department of manufacturer.

## 16 Maintenance



**WARNING!**

**Risk of injury when working on the bed!**

- ▶ Ensure that the bed is disconnected from the mains power prior to installation, putting into service, maintenance and deinstallation.
- ▶ Ensure that the castors are locked prior to installation, putting into service, maintenance and deinstallation.



**WARNING!**

**Risk of injury due to defective bed!**

- ▶ Have a defective bed repaired immediately.
- ▶ If the defect cannot be repaired, do not use the bed.



**CAUTION!**

**Material damage due to incorrect maintenance!**

- ▶ Ensure that maintenance is performed exclusively by manufacturer's customer service or by authorised service personnel certified by the manufacturer.
- ▶ If the defect cannot be repaired, do not use the bed.

LINET ® recommends attaching the maintenance plaque to the bed.

### 16.1 Regular maintenance

- ▶ Check regularly movable parts for wear.
- ▶ Perform regularly visual check of the product (with delivery note if necessary).
- ▶ Ask service department of the manufacturer for addition of the original spare parts if some product parts are missing.
- ▶ Ask service department of the manufacturer for replacement of any damaged product parts by the original spare parts.
- ▶ Check regularly that all accessories are working properly.
- ▶ Replace damaged accessories immediately.

### 16.2 Spare Parts

The serial label is located on the frame of the mattress support platform. The serial label contains information for claims and ordering replacement parts.

**Information about spare parts is available from:**

- Manufacturer's customer service
- Sales department

### 16.3 Safety Technical Checks



**WARNING!**

**Risk of injury due to incorrect safety technical checks!**

- ▶ Ensure that safety technical checks are performed exclusively by manufacturer's customer service or by authorised service personnel certified by the manufacturer.
- ▶ Ensure that the safety technical checks are recorded in the service and maintenance log.

**Safety technical check of the medical bed must be performed at least once every 12 months.**

The procedure for performing the safety technical check is stipulated in EN 62353:2014.

**NOTE** On request, the manufacturer will provide service documentation (e.g. circuit diagrams, component part lists, descriptions, calibration instructions etc.) for service personnel for the repair of ME equipment designated by the manufacturer as repairable by service personnel.

## 17 Disposal

### 17.1 Environment Protection

The company LINET® is aware of the importance of environmental protection for future generations. Within this company the environmental management system is applied in accordance with the internationally agreed standard ISO 14001. The compliance with this standard is annually tested by the external audit executed by an authorised company. Based on the Directive No. 2002/96/EC (Directive **WEEE** - Waste, Electric and Electronic Equipments) the company LINET, s. r. o. is registered in the List of Electric and Electronic Equipment Producers (**Seznam výrobců elektrozařízení**) on the Ministry of the Environment of the Czech Republic (Ministerstvo životního prostředí).

Materials used in this product are not environmentally hazardous. LINET® products meet valid requirements of national and European legislation in the areas of **RoHS** and **REACH**, so they do not contain any prohibited substances in excess quantities. None of the wooden parts is made of tropical wood (such as mahogany, rosewood, ebony, teak etc.) or made of timber from the Amazon region or from similar rainforests. Product noise (sound pressure level) meets requirements of the regulations for the protection of public health against undesirable effects of noise and vibration in protected interior spaces of buildings (according to standard IEC 60601-2-52). Used packaging materials are in accordance with requirements of the Packaging Act (**Zákon o obalech**). For disposal of packaging materials after installation of products contact your sales representative or manufacturer's customer service about the possibility of a free take-back of packaging through an authorized company (more details on [www.linnet.cz](http://www.linnet.cz)).

### 17.2 Disposal

The main objective of the obligations arising from the European Directive No. 2012/19/EU on Waste, Electric and Electronic Equipments (nationally regulated in Act No. 185/2001 Coll. as amended. On Waste and in Decree of the Ministry of the Environment No. 352/2005 Coll. as amended), is to increase the re-use, material recovery and recovery of electric and electronic equipment at the required level, thereby avoiding the production of waste and thereby avoiding the possible harmful effects of hazardous substances contained in electric and electronic equipment on human health and the environment.

#### 17.2.1 Within Europe

**To dispose of the electric and electronic equipment:**

- ▶ The electric and electronic equipment must not be disposed of as household waste.
- ▶ Dispose of this equipment at designated collection points or take-back points.

**To dispose of the other equipment:**

- ▶ The equipment must not be disposed of as household waste.
- ▶ Dispose of this equipment at designated collection points or take-back points.

LINET® participates in a collective system with take-back company REMA System (see [www.remasystem.cz/sberna-mista/](http://www.remasystem.cz/sberna-mista/)). By bringing electric and electronic equipment to a take-back point, you participate in recycling and you save primary raw material resources while protecting your environment from effects of unprofessional disposal.

#### 17.2.2 Outside Europe

- ▶ Dispose of the product or its components in accordance with local laws and regulations!
- ▶ Hire an approved waste disposal company for disposal!

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## 18 Warranty

LINET® will only be held responsible for the safety and reliability of products that are regularly serviced, maintained and used in accordance with the safety guidelines.

**Should a serious defect arise that cannot be repaired during maintenance:**

- ▶ Do not continue to use the bed.

This product is covered by a 24-month warranty from the date of purchase. The warranty covers all material and manufacturing-related failures and errors. Failures and errors caused by incorrect use and external effects are not covered. Justified complaints will be fixed free of charge during the warranty period. Proof of purchase, with the date of purchase, is required for all warranty service. Our standard terms and conditions apply.

## 19 Standards and Regulations

Applied norms are stated on Declaration of Conformity.

The manufacturer adheres to a certified quality management system in compliance with the following standards:

- ISO 9001
- ISO 14001
- ISO 13485
- MDSAP (Medical Device Single Audit Program)