User Manual and Technical Description
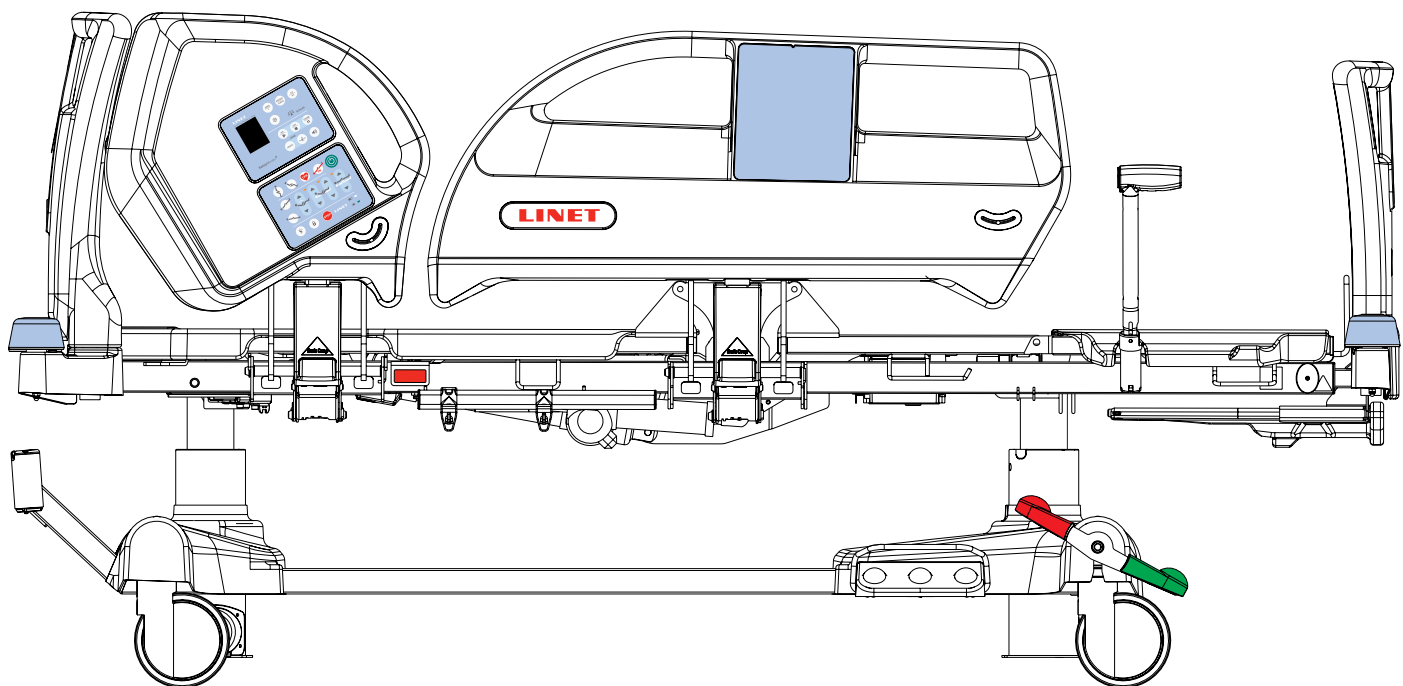
ELEGANZA 4

Positionable Bed for Intensive Care

version with scales and without scales

CE 1014

CE

Eleganza 4
Positionable bed for intensive care

Table of Contents

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** warns about the risk of material damage.
► **WARNING** warns about the risk of physical injury.
► **DANGER** warns about the 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:
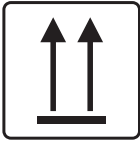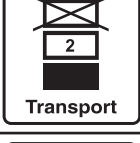
► Perform this step.
Results, if necessary.

1.3 Lists

Structure of bulleted lists:
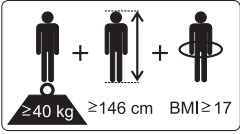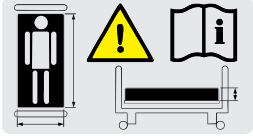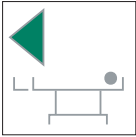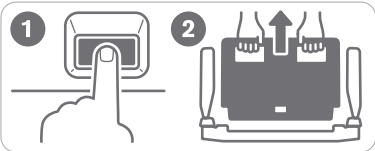
■ List level 1
  □ List level 2
    ● List level 3
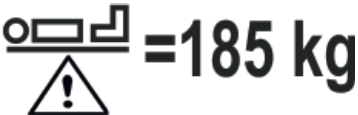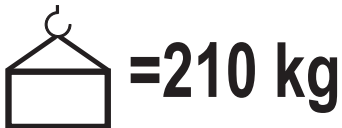
1.4 Symbols on the Package

	FRAGILE, HANDLE WITH CARE
	THIS WAY UP
	KEEP DRY (PROTECT FROM HUMIDITY)
	PAPER RECYCLING SYMBOL
	OVERSEAS PACKAGE: STACKING LIMIT BY NUMBER (4 PACKAGES FOR STORAGE)
	OVERSEAS PACKAGE: STACKING LIMIT BY NUMBER (2 PACKAGES FOR TRANSPORT)
	DO NOT USE HAND TRUCK HERE
	DO NOT STACK DURING STORAGE

1.5 Symbols and Labels on the Bed

	READ INSTRUCTIONS FOR USE
	GO BUTTON (PRESS TO ACTIVATE CONTROL ELEMENT)
	STOP BUTTON (PRESS TO INTERRUPT BED POSITIONING)

250 kg	SAFE WORKING LOAD
≥40 kg ≥146 cm BMI≥17	DESIGNATION OF HOSPITAL BED FOR ADULTS
	USE MATTRESS RECOMMENDED BY MANUFACTURER
	DO NOT PUT ANY OBJECTS ON UNDERCARRIAGE
	BED EXTENSION
	WARNING AGAINST CRUSHING OR TRAPPING
	JACK FOR ATTACHMENT OF CONDUCTOR FOR POTENTIAL EQUALISATION
CPR	CPR LEVER
	WARNING
	WARNING
	BED BOARD REMOVAL INSTRUCTION
MAX 80 kg	MAXIMUM CALFREST LOAD

	APPLIED PARTS TYPE **B**
	THERMAL PROTECTION FOR TRANSFORMER
	SAFETY ISOLATING TRANSFORMER, GENERAL
	ONLY SUITABLE FOR INDOOR USE
=185 kg	MAXIMUM WEIGHT OF PATIENT
=210 kg	WEIGHT OF BED
	CE MARK (ELEGANZA 4 WITHOUT SCALES)
1014	**CE** MARK (ELEGANZA 4 WITH SCALES)
	WEEE SYMBOL (RECYCLE AS ELECTRONIC WASTE, DO NOT PUT INTO THE HOUSEHOLD WASTE)
	MANUFACTURER
	MANUFACTURING DATE

REF	REFERENCE NUMBER (PRODUCT TYPE DEPENDING ON CONFIGURATION)
SN	SERIAL NUMBER
	DO NOT POLLUTE THE ENVIRONMENT
	RECYCLING SYMBOL
DO NOT OPEN	DO NOT OPEN

Type: WS17   Max 250,0 kg
              Min   10,0 kg
TCM 128/17 - 5444   e=   0,5 kg
  +10°C / +40°C   T=-249,5 kg
No.:   20170076221   C E M 17 1383
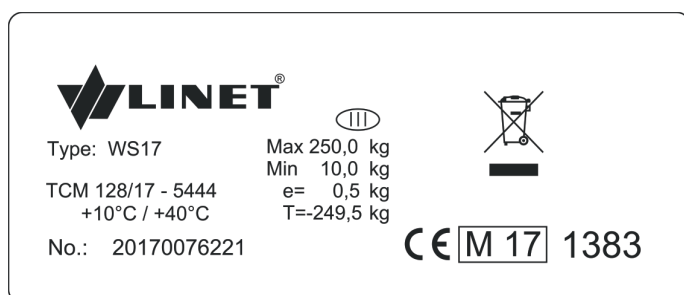
Fig. Scales label (WS17)

Scales Abbreviations	
Max	maximum capacity of the weighing instrument
Min	minimum capacity of the weighing instrument
e	verification scale interval
T	tare value

1.6 Serial Label with UDI

Pictures of serial labels below serve just for explanation of the signs and fields on the serial labels.
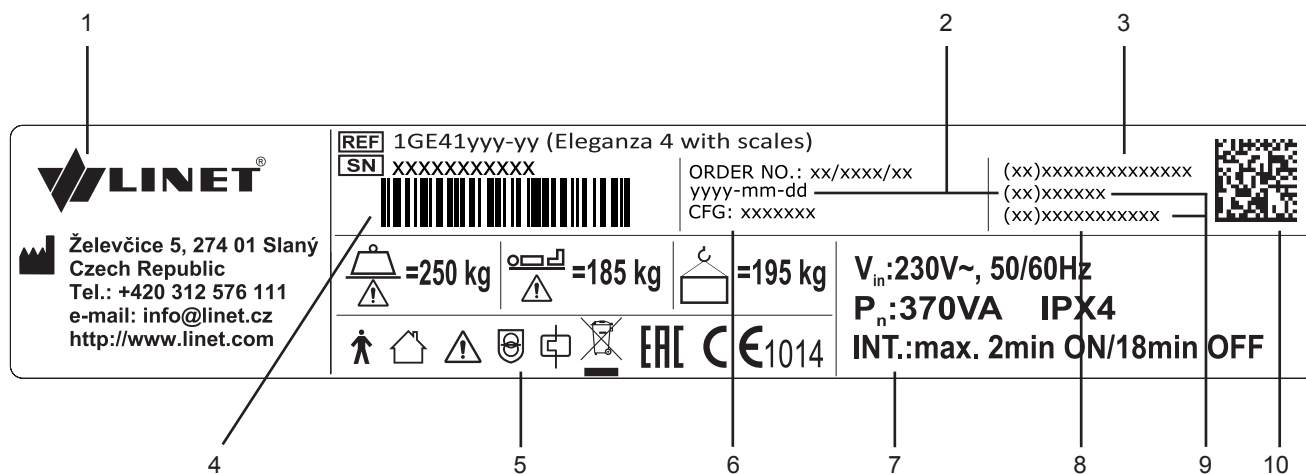
Fig. Serial Label with UDI (Eleganza 4 with scales)
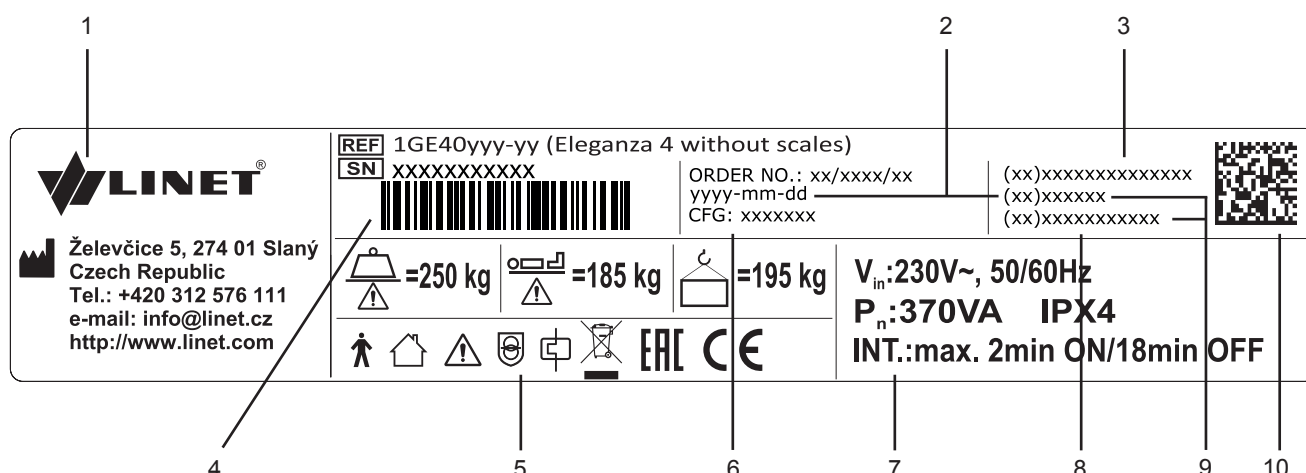
Fig. Serial Label with UDI (Eleganza 4 without scales)

1	Address of Distributor
2	Manufacturing Date (Year-Month-Day)
3	DI (Device Identifier) / GTIN (Global Trade Item Number)
4	1D Bar code GS1-128 (Serial Number)
5	Symbols
6	Configuration number
7	Electrical Specification
8	Serial Number
9	PI (Product Identifier)
10	2D Bar Code (GS1 DataMatrix) **DI+PI=UDI**

1.7 Acoustic signalisation

SOUND	MEANING
CONTINUOUS SOUND	overheating, scales overload, actuator overload, accumulator overcurrent
REPEATED DISCONTINUOUS SOUND	
(0,6s sound / 2,6s silence)	STOP error (all STOP buttons are disabled)
(melody: 3 beeps, pause, 2 beeps, longer pause, 3 beeps, pause, 2 beeps)	Bed Exit Alarm
DISCONTINUOUS SOUND	
(duration 0,3s)	confirmation
	signalisation of stopping or signalisation of locked function
	transition from tilt (Trendelenburg, Antitrendelenburg) to horizontal position
	Bed Exit Monitoring: transition from OFF to ON, transition from PAUSE to ON
(duration 0,5s)	start of service mode or end of service mode
	keyboard error (positioning blocked)
(duration 3s)	system error
(duration 3 min: 1,1s sound / 1,1s silence)	Brake Signal

1.8 Illumination

NIGHT LIGHT

Bed illumination helps the nursing staff as well as the patient to orientate. The lowered intensity of lightning is set up after turning the bed on. The night light is turned off during accumulator operation.

The bed is equipped with three-phase illumination:
1. Lowered intensity of illumination
2. Full intensity of illumination
3. Illumination is turned off

After pressing any button:
► The bed illumination will light up at full intensity for 10 minutes.
After 10 minutes the bed illumination will be lowered.
After disconnection of the bed from the mains illumination lights up for few seconds.

Turning off bed illumination:
► Disconnect bed from the mains.
After disconnection of the bed from the mains illumination lights up for few seconds.

1.9 Definitions

Basic Bed Configuration	the pricelist model configuration, not including a mattress
Bed Weight	The value depends on the product configuration, accessories or customer adjustments.
Clearance of Undercarriage	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
Duty Cycle	cycle of operation of the motor: time of activity/time of rest
Ergoframe	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.
Maximum Patient Weight	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.
Safe Working Load	the highest allowable load on the bed (patient, mattress, accessories and the load supported by those accessories)
Siderail Height	the height of the upper crossbar or the edges of the siderails (not the highest point of the siderail controls) from the patient surface
Standard Bed Position	- The height of the patient surface with regard to the floor is 400 mm - The mattress support platform, including the individual parts, has to be in a horizontal (level - 0°) position. - The siderails are always locked in the upper position. - The basic position of the integrated extension.

1.10 Abbreviations

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

2 Safety Instructions

⚠ **WARNING!**
Eleganza 4 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 4 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 4 bed avoid squeezing those between parts of the Eleganza 4 bed!

⚠ **WARNING!**
Eleganza 4 bed should not be used with bed hoists and bed lifts!

⚠ **WARNING!**
The bed is intended for adults.
►Follow the 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.

► Follow the instructions carefully.
► Use the bed exclusively if it is in perfect working order.
► If necessary, check the bed functions daily or at each shift change.
► Ensure any user has read and understood this manual completely before operating the product.
► Use the bed exclusively with the correct mains supply.
► Ensure that the bed is operated exclusively by qualified personnel.
► Ensure that the patient (health permitting) has been informed about the operation of the bed and all applicable safety instructions.
► Move the bed exclusively on even, hard-surfaced floors.
► Replace any damaged parts immediately with original spare parts.
► Ensure that maintenance and installation are performed exclusively by qualified personnel who have been trained by the manufacturer.
► During peak loads or unavoidable excess loads (CPR), place Mattress support platform in the lowest position.
► Ensure that only one adult patient uses the bed at any time.
► Take care to avoid injuries or squeezing when operating moving parts.
► When using lifting poles or infusion stands, ensure that nothing will be damaged when you move or adjust the bed.
► Brake the castors when the bed is occupied.
► Keep the mattress support 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 injuries.
► Enable or disable functions on Patient Control Panels using the iBoard Standard Attendant Control Panel as appropriate for the patient's physical and mental state. Verify that the function is actually disabled.
► Ensure that siderails are operated exclusively by healthcare personnel.
► Never use the bed in areas where there is a hazard of explosion.
► Never handle the mains plug with wet hands.
► Disconnect the product from the mains exclusively by pulling the mains plug.
► When pulling the mains plug, always hold the plug, not the cable.
► Position the mains cable so that there are no loops or kinks in the cable; protect the cable from mechanical wear and tear.
► Improper handling of mains cable can cause an electric shock hazard, other serious injuries or damage to the mattress replacement system.
► Ensure that the stipulated duty cycle of motor is not exceeded.
► To change fuses or cables contact servise organisation authorized by manufacturer.
► Ensure that the moving parts of the bed are not blocked.
► To prevent failures, use exclusively the manufacturer's original accessories and mattresses.
► Ensure that the stipulated safe working load is not exceeded.
► If the patient's condition could lead to an entrapment, leave the mattress support platform in the flat position whilst unattended.
► Adjust bed height when transporting the bed in order to facilitate overcoming possible obstacles.
► Do not exceed maximum load of 80 kg for bed extension.
► Do not modify bed and its components without the manufacturer´s approval.
► Use the mattress system exclusively as specified in this manual and in perfect working order.
► Use the mattress system exclusively with the correct mains supply (see Electrical Specifications).
► Use the mattress system exclusively in its original state and do not modify it in any way.
► Have the mattress system used exclusively by or under supervision of trained and qualified nursing personnel.
► Have the mattress system serviced and installed exclusively by qualified personnel trained and authorised by the manufacturer.
► Do not exceed the maximum patient weight limit (see Mechanical Specifications).
► Do not use the SCU near flammable gases. (This does not apply to oxygen cylinders.)
► Do not hang anything on any cable.
► Never use the mattress replacement system near radiators or other heat sources.
► Never cover the SCU while in use.
► Select a suitable location for the placement of bed accessories and other objects to prevent involuntary activation of buttons or controls which may result in the adjustment of bed positioning.
► Do not use the bed in the event parts have been removed (e.g. parts of mattress support platform) unless these parts are designed to be removed (e.g. head and/ or foot end of the bed).
► Never place any accessories or handset on the siderails where keyboards are located.
► After each emergency situation always check if any of the controllers (in side rails, handset or ACP) is not involuntarily pressed by the bed accessories or by the mattress.
► The weighing system must be calibrated at regular intervals and in accordance with the metrological regulations of the relevant country. All testing and certification must be carried out by qualified personnel. The healthcare provider is responsible for ensuring the required testing frequency and testing procedure of the weighing system is carried out.
► To avoid injury or crushing, take extra caution when operating any moving parts of the bed.
► To avoid unintended activation of moving parts during any use of the bed always check that none of the control elements of the bed is not involuntary pressed by persons, mattress or other objects.

► Before setting the Extra Low position, ensure there is no risk of any parts of the bed colliding with servers, accessories or body parts.
► Close Linen Shelf before using the Anti-Trendelenburg Tilt or Cardiac Chair Position.

3 Intended Use

Eleganza 4 is a positionable bed for intensive care. Its purpose is to support patient and to facilitate treatment and manipulation with patient for nursing personnel. Eleganza 4 (only version with scales) is equipped with weighing system designed for weighing patients. Eleganza 4 is compatible with mattresses approved by the manufacturer.

Eleganza 4 must be used exclusively by or under supervision of trained and qualified nursing personnel.

Eleganza 4 is suitable for:
- **Patients**
  □ Standard bed:
    - With weight ≥ 40 kg
    - With height ≥ 146 cm
    - With BMI ≥ 17
  □ Whose weight (including mattress and accessories) does not exceed the SWL in long-term treatment (depending on bed type)
- **Personnel**
  □ qualified medical staff
  □ patient (condition permitting)
- **Use**
  □ intensive/critical care units
  □ hospital rooms
  □ patient transport
- **Transport**
  □ in original bag
- **Medical purpose**
  □ support for patients in Eleganza 4 beds
- **Location**
  □ The bed is determined for application environment 1 and 2 according to IEC 60601-2-52.

Other uses of Eleganza 4 bed are not allowed!

3.1 Contraindications

⚠ **Staff expert assessment is needed to consider all individual cases of contraindications!**

⚠ **Certain bed positions are not suitable for specific diagnosis/medical conditions. Fowler position is not suitable for spinal cord injuries! Trendelenburg position is not suitable for patients with higher intracranial pressure!**

⚠ **Length adjustment of the bed must be proportional to the height of patient!**
Risk of trapping or squeezing because of patient´s body constitution disproportionate to the size of mattress support platform!

4 Product Description
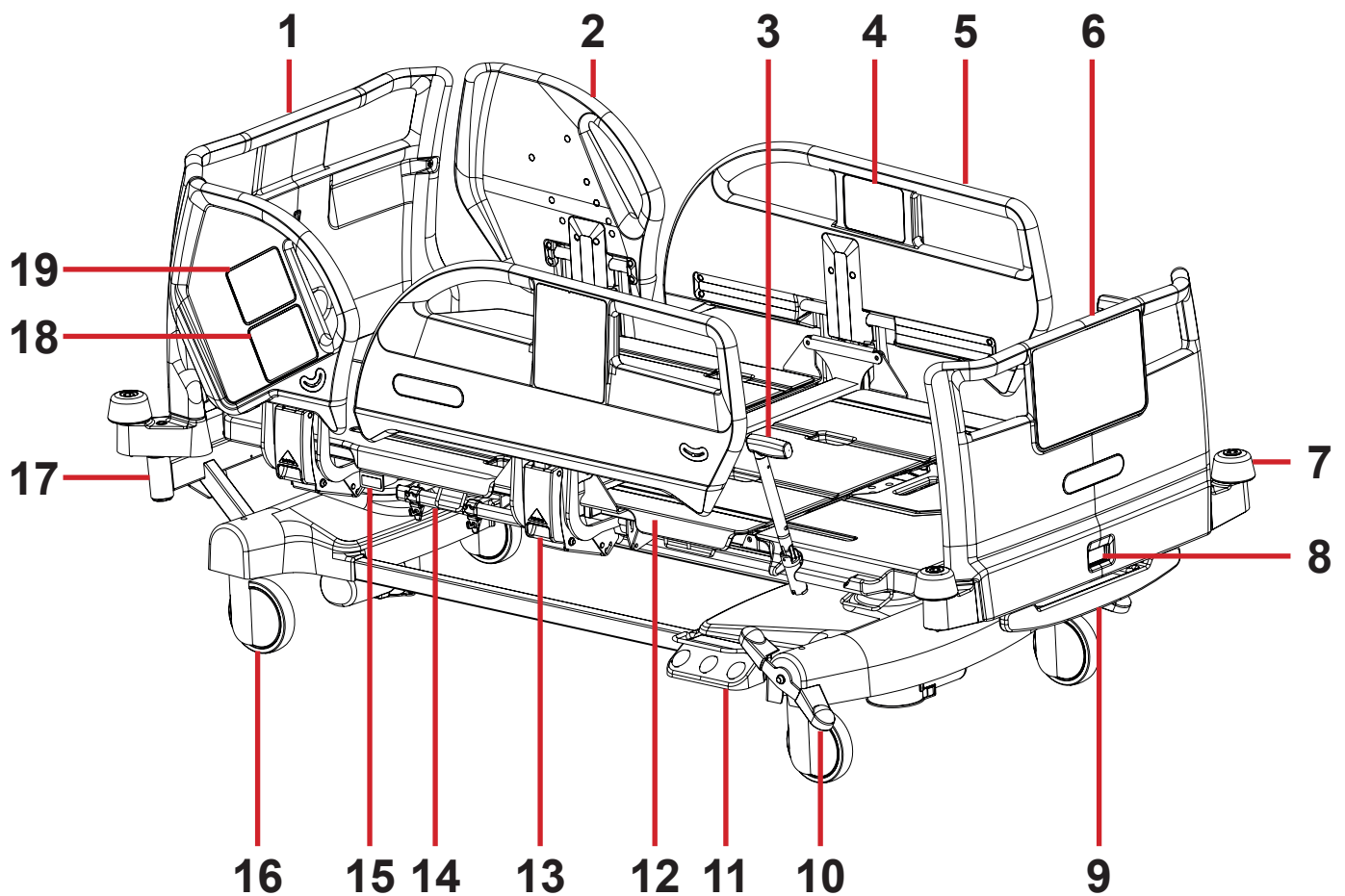
Fig. Bed Overview (Eleganza 4)

1. **Removable Head Board**
2. **Head Siderail**
3. **Mobi-Lift Handle - Bed Height**
4. **Patient Control Panel**
5. **Foot Siderail**
6. **Removable Foot Board**
7. **Corner Bumper**
8. **Foot Board Lock**
9. **Linen Holder**
10. **Castor Control Lever**
11. **Foot Switch - Bed Height**
12. **Four-part Mattress support platform with Ergoframe® System**
13. **Siderail Release Mechanism**
14. **Accessory Rail**
15. **CPR Lever – Backrest Release**
16. **Castor**
17. **Accessory Adaptor**
18. **Nurse Control Panel**
19. **iBoard Basic**

5 Technical Specification

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

5.1 Identification of Applied Parts (Type B)

All part of the bed (and accessories) the patient can reach are type B Applied Parts.

- Mattress support platform Frame, Covers and all Movable Parts
- Head and Foot End
- Siderails
- Mobi-Lift® Handles
- Handset
- Patient Control Panels

5.2 Scales

Accuracy of displayed weight values:
- 0,5 kg
- Scales Class III

5.3 Mechanical Specifications (Eleganza 4)

Parameter	Value
External Dimensions in Standard Bed Position (length x width)	217,5 cm x 100 cm
Maximum Siderail Height above Mattress support platform	45 cm
Bed Extension	11 cm, 22 cm
Maximum Dimensions of Mattress (length x width)	208 cm x 90 cm
Maximum Mattress Height	23 cm
Clearance of Undercarriage	15 cm
Castor diameter	15 cm
Minimum-Maximum Mattress support platform Height (above floor, without Mattress)	41 cm - 79 cm
Ergoframe (Backrest/Thighrest)	7,4 cm / 4 cm
Maximum Backrest Angle	65°
Maximum Thighrest Angle	25°
Maximum Calfrest Angle	20°
Angle between Calfrest and Thighrest	225°
Trendelenburg Angle	14°
Anti-Trendelenburg Angle	14°
Bed Weight (depending on configuration)	156 - 190 Kg
SWL (Bed Safe Working Load)	250 Kg
SWL (Lifting Pole Safe Working Load)	75 Kg
Maximum Patient Weight	185 Kg
Sound Pressure Level	57 dBA
Minimum Sound Pressure Level of Bed Exit Alarm	60 dBA

5.4 Environment Conditions

Use Conditions	
Ambient Temperature	10°C - 40°C
Relative Humidity	30% - 75 %
Atmospheric Pressure	795 hPa - 1060 hPa
Storage and Transport Conditions	
Ambient Temperature	-20°C - 50°C
Relative Humidity	20% - 90 %
Atmospheric Pressure	795 hPa - 1060 hPa

5.5 Electrical Specifications (Eleganza 4)

Input Voltage
        Version 1
        Version 2
	230 V AC, 50/60 Hz
	120 V AC, 50/60 Hz

Maximum Power Input	370 VAC
Ingress Protection (EN 60529)	IP X4
Protection Class	Class I
Electrical Motor Duty Cycle	2 minutes ON /18 minutes OFF
Accumulator	Pb AKU 2 x 12 V / 1,2 Ah / Fuse 15 A

Fuse
        Version 1
        Version 2
	2 x T1.6A L 250V for 230 V
	2 x T3.15A L 250V for 120 V

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

5.6 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:
►   **Mains cable**, maximum length 6 m
►   **Attendant Control Panel**, maximum length 3m
►   **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 4, 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 19 Maintenance in order to maintain the basic safety with regard to electromagnetic disturbances for the expected service life.**

5.6.1 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

5.6.2 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 Proximity fields from RF wireless communications equipment IEC 61000-4-3	3 V/m 80 MHz – 2,7 GHz 80 % AM at 1 kHz 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).

6 Use and Storage Conditions

DANGER!
Danger to life due to electric shock!
To ensure the bed's class I protection against electric shocks:
► Ground the mains.
► Use exclusively Hospital Grade or Hospital Only receptacles for grounding.

Eleganza 4 is designed for use in rooms for medical purposes. Electrical installations must therefore meet local norms laying down the necessary conditions for electrical installations.
► Disconnect the bed from the mains in exceptional cases (i.e. lightnings, earthquake).

Eleganza 4 is not suitable for indoor environments containing flammable gases (except oxygen cylinders).

7 Scope of Delivery and Bed Variants

7.1 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 Scope of Delivery

■ Eleganza 4 hospital bed
■ User Manual

7.3 Eleganza 4 Variants

s = standart
o = optional

Variable bed features:

■ Scales
  □ without scales (without Bed Exit Monitoring) (o)
  □ with scales (with Bed Exit Monitoring or with SafetyMonitor) (s)
■ Castors
  □ Tente Integral 150 mm (5.9 in.) single castors (s)
  □ Tente Integral 150 mm (5.9 in.) double castors (o)
  □ Tente Integral 150 mm (5.9 in.) single castors + retractable 5th castor (o)
  □ Tente Integral 150 mm (5.9 in.) double castors + retractable 5th castor (o)
■ Control Elements
  □ Nurse Control Panel in both head siderails (o)
  □ iBoard Basic in both head siderails (s)
  □ Attendant Control Panel (s)
  □ Patient Control Panel in both foot siderails (o)
  □ Handset with illuminated buttons and adapter for simple connection Plug and Play (o)
  □ Foot Switch - Bed Height (o)
■ Undercarriage Cover
  □ 2-part undercarriage cover (s)
  □ 1-part undercarriage cover (o)
■ Linen Shelf (s)
■ 1 pair of Mobi-Lift® handles (o)
■ Night Light (o)
■ Brake Signal (o)
■ i-Brake® (o)
  □ without Brake Signal (o)
  □ with Brake Signal (o)
■ x-ray cassette holder (o)
■ EMR ready bed (o)
■ USB (o)

NOTE It is not posssible to equip the Eleganza 4 bed with Attendant Control Panel and with Nurse Control Panel at the same time.

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.

NOTE For safe, easy handling, LINET ® recommends having two technicians assemble the bed.

Set up the bed as follows:

► Unpack the bed.
► Check the delivery (see Scope of Delivery and Bed Variants).
► Remove isolating foil from the mains control box (see Accumulator Activation).
► Install equipment and accessories.
► In case of delivery with dismantled bed ends, mount the head and foot ends (see Head Board and Foot Board).
► Set up the bed exclusively on a suitable floor surface (see Transport).
► Ensure that the mains cable does not collide or get stretched when adjusting the bed.
► Check that the plug is inserted correctly.
► Do not leave any extension cords or power strips loose on the floor.
► Ensure that all of 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 that the mains cable is always accessible.
► Have the separable plug of the mains cable changed and maintained exclusively by qualified and trained service techni cians authorised by the manufacturer.

⚠️ **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 for the difference to balance itself.

8.1 Accumulator Activation

Control Section Placement
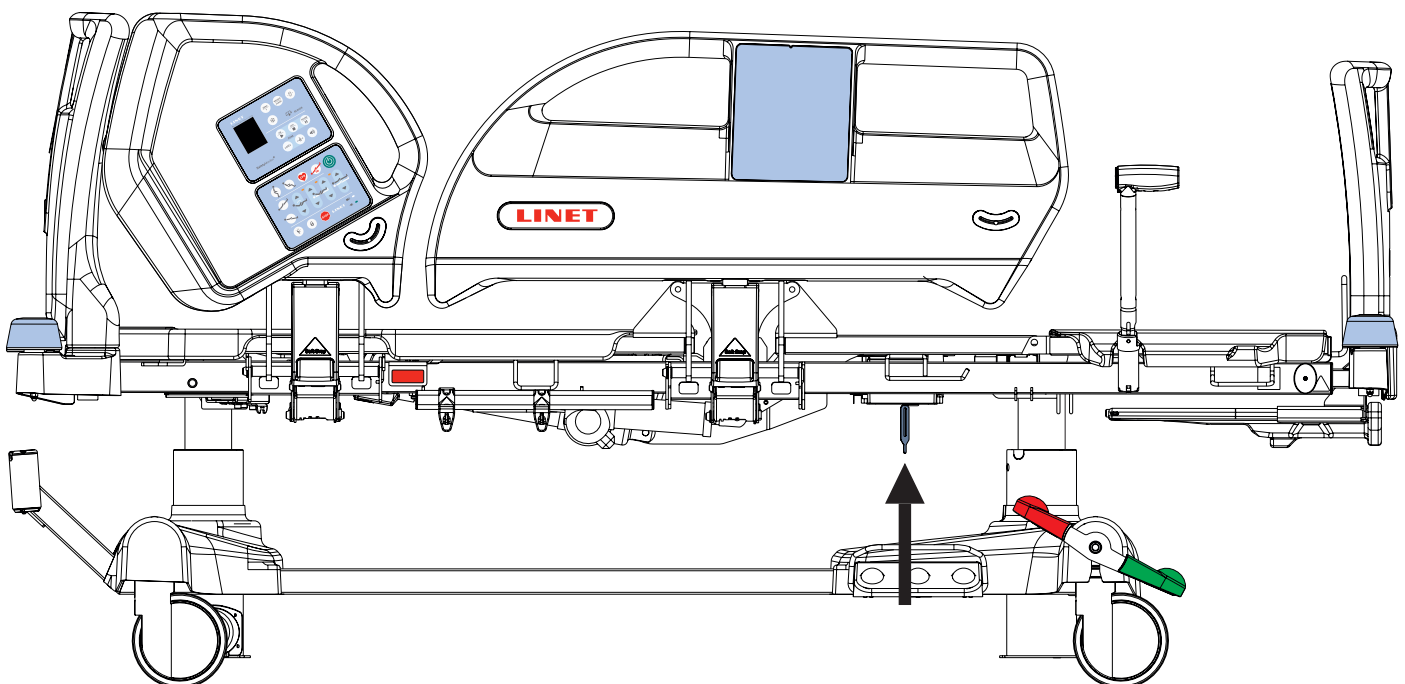
Fig. Position of Isolating foil

Removing the Isolating Foil

To remove isolating foil:

► Remove isolating foil from mains control box by pulling strap.
► Check if isolating foil is complete and undamaged as shown.
► If isolating foil is damaged, contact the
   manufacturer's service department immediately.
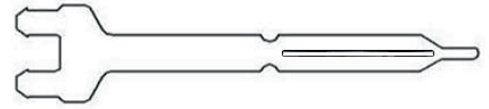
NOTE It is recommended to wear gloves when removing the isolating foil.

Fig. Detail of Isolating Foil

8.2 Head Board and Foot Board

Remove head board or foot board as follows:
► Unlock Head Board Lock or Foot Board Lock.
► Pull head board or foot board from sleeve fitting.
► Lock Head Board Lock or Foot Board Lock.

Install head board or foot board as follows:
► Unlock Head Board Lock or Foot Board Lock.
► Slide head board or foot board into sleeve fitting.
► Lock Head Board Lock or Foot Board Lock.
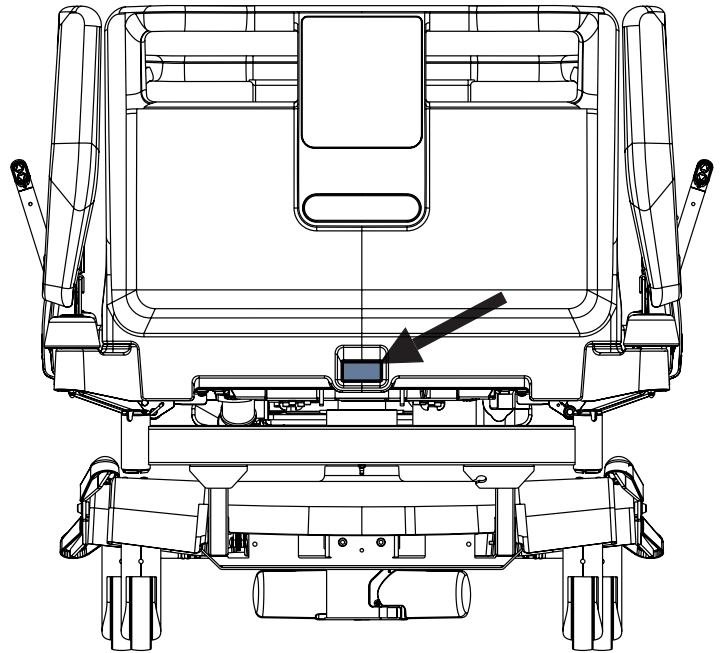
Fig. Head Board Lock

8.3 Mattress support platform

Eleganza 4 bed has 4-part Mattress support platform consisting of Backrest, Seat section, Thighrest and Calfrest. The Mattress support platform without x-ray cassette holder has 4 removable covers of Mattress support platform (**1**, **2**, **3** and **4**).
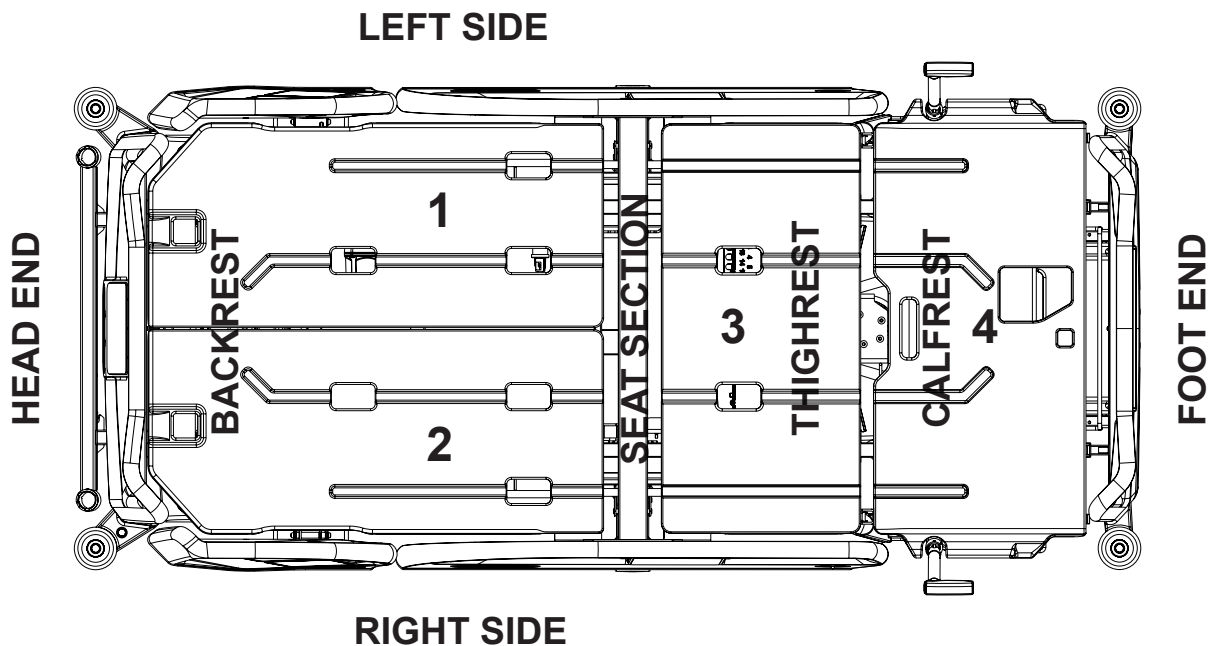
Fig. 4-part Mattress support platform

8.4 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.

Use equalisation connector if:
■   the patient is connected to any intravascular or intracardiac device.

Before connecting the patient to an intravascular/intracardiac 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 that the connectors match.
►   Make sure that there is no possibility for inadvertent disconnection.

Before moving the bed:
►   Disconnect the patient from the intravascular or intracardiac device.
►   Disconnect the potential equalisation connector.
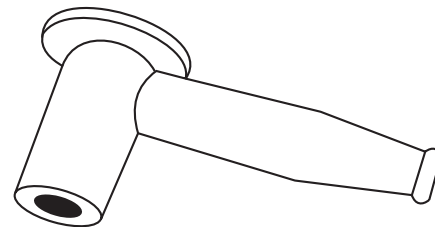
Fig. Potential equalisation connector - female
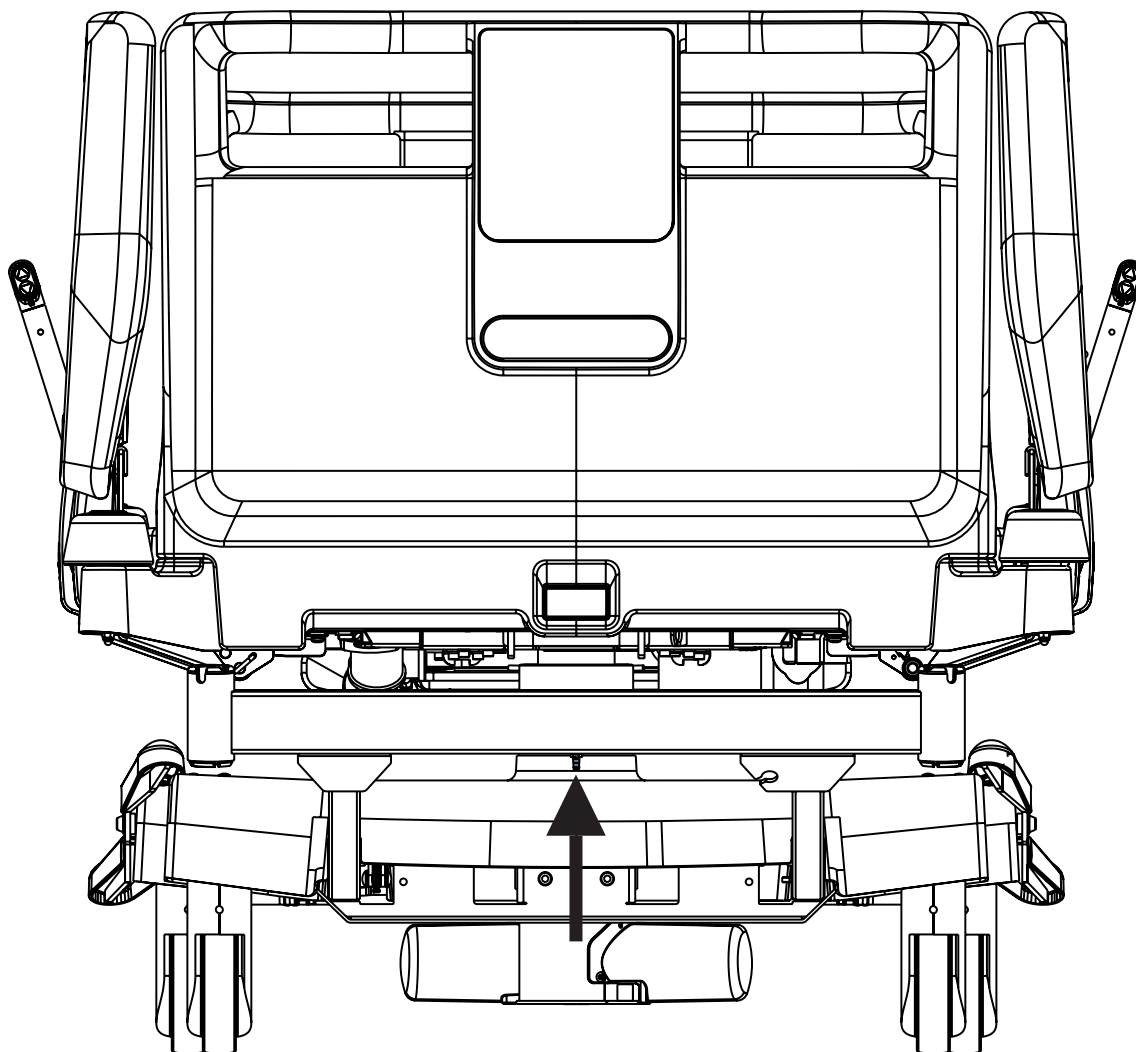
Fig. Potential equalisation - male

8.5 Before Use

Prepare the bed for use as follows:
► Connect the bed to the mains.
► Charge the accumulator.
► Raise and tilt the mattress support platform to the highest position.
► Lower and tilt the mattress support platform to the lowest position.
► Check that the castors as well as main brake work correctly.
► Check that the bed extension works correctly.
► Check that it is possible to remove the head and foot boards.
► Check all of the functions on the control elements.
► Check that the siderails function properly.
► Dispose of all packaging (see Disposal).

8.6 Transport

For a safe transport, observe the following:
► Ensure that no cables are run over when moving a bed.
► Ensure that the mains cable is attached with a hook (at the head end of the bed).
► Ensure that the castors are unlocked before moving the bed during the loading/unloading process (see Castor Control).
► Adjust bed height to at least 20 cm below maximum height.
► Push bed by handles on head or foot end.
► Move the bed exclusively on suitable floor surfaces.
► For longer distances, ensure that the castor steering function is activated.
► Ensure that the brakes are released while moving the bed.

Suitable surfaces:
■ Tile
■ Hard linoleum
■ Poured flooring

Unsuitable surfaces:
■ Too soft, unsealed or defective flooring
■ Soft wooden flooring
■ Soft and porous stone floors
■ Carpeted floors with underlay
■ Soft linoleum

9 Power Cable

Attachment plug is means of connecting and disconnecting bed from the mains.
Mains power cable must be attached with a hook at the head end of the bed during transport.

⚠️ **CAUTION!**
Disconnecting bed from the mains does not stop motions of the bed!
► Stop the bed before disconnection bed from the mains.

Where the integrity of the external protective conductor in the installation or its arrangement is in doubt
► operate the bed from internal accumulator only.

10 Accumulator

⚠️ **WARNING!**
When the bed is not connected to the mains and accumulator is not sufficiently charged all electrical functions of the bed are blocked!

Purpose

The accumulator serves as a backup during power failures or for emergency bed positioning.

► Use only accumulator approved by the manufacturer.
► Check the functionality of the accumulator at least once a month in accordance with the user manual and have the accumulator changed if necessary.

NOTE The service life of the accumulator depends on the frequency and method of use (2 years at the maximum).

The manufacturer will assume no responsibility for any damage to the bed or the accumulator caused by:
■ non-observance of the manufacturer's instructions in the user manual
■ using accumulator not approved by the manufacturer

Warranty

The manufacturer provides a **6-month** warranty for the full function of the accumulator.

Charging

The accumulator supplied with the bed is delivered insufficiently charged.
Charging of the accumulator before use of the bed takes approximately 4 hours.
Charging of the accumulator runs automatically when the power cable is connected to the mains.

To charge the accumulator:
► Connect the bed to the mains.

Storage

For declared lifetime period of leaded accumulator is recommended during storage:
► To prevent accumulator from deep discharging and to keep accumulator at least partly charged by regular recharging
► To store accumulator on the places with temperature from 10°C to 40°C
► To prevent accumulator from being in the sunshine

Signalisation

The LED (on Nurse Control Panel or Attendant Control Panel) indicates the accumulator charge status:

Yellow LED	Accumulator charge status
Not lit	Accumulator capacity is sufficient (charging completed)
Short flashing (shortly lit, longer not lit) (circa 1.8 sec.)	Accumulator is charging - continue charging until the LED is extinguished. In emer- gency cases, the accumulator can be used as a backup power source for a short period. If LED is still flashing after 12 hours of charging or stops flashing, but you can not position with bed, accumulator is defective or broken. Contact manufacturer.
Short flashing (0,2s lit, 0,2s not lit)	Only CPR function can be used.
Long flashing (longer lit, shortly not lit) (circa 0.2 sec.)	Low accumulator voltage - accumulator can not be used as a backup power supply even for a short period; accumulator is completely discharged or defective (if this type of signalisation persists, it is necessary to replace the accumulator - service action)
Lit continuously, when bed is connected to the mains.	Accumulator absence or failure condition (accumulator is connected incorrectly, line between the power supply and accumulator is broken or accumulator fuses are faulty); contact service department of the manufacturer in case of such signa- lisation.

10.1 Replacing the accumulator

⚠️ **CAUTION!**
Damage to the bed due to incorrect accumulator replacement!
► Have the accumulator replaced exclusively by qualified personnel.
► Exclusively use accumulator approved by the manufacturer.

⚠️ **CAUTION!**
Material damage due to overheating!
If the accumulator is faulty, degassing may occur. In rare cases this might cause deformations of the accumulator case, control panel housing or cable.
► Stop using the bed immediately (see Removing the Bed from Service).
► Inform the manufacturer's service department.

⚠️ **CAUTION!**
Risk of reducing accumulator durability due to incorrect use!
► Use bed on accumulator only in crisis situations (e.g.: power blackout, patient complications during transport, etc.)
► After reconnecting bed to the mains charge accumulator to full capacity (see chart Accumulator charge status).
► Have accumulator replaced exclusively by a qualified service organisation.
► The manufacturer recommends to replace the accumulator by qualified service organization after 2 years of use.
After this period the supposed service life of accumulator ends and the manufacturer cannot guarantee the accumulator service life after this period.

Faulty accumulator

This status is indicated by the accumulator status indicator being constantly lit.

The accumulator is regarded as faulty if at least one of the following conditions applies:

► Accumulator charging constantly
► Low voltage on accumulator
► Low charging current of accumulator

NOTE These statuses are summarised to Linis and written to Blackbox.

To cancel this status:

► Press button 🛑 .

Discharged accumulator

This status will be cancelled automatically when the bed switches to sleep mode.

The accumulator is regarded as discharged if the following condition is met:

► Defined decrease of voltage depending on discharging current
► This status is indicated by the accumulator status indicator flashing quickly.
► It is possible to use the electric CPR only to position the bed.

To cancel this status:

► Press button **STOP** .

10.2 Removing the Bed from Use

Remove the bed from use as follows:

► Disconnect the bed from the mains.
► Disconnect the ground wire.
► Deactivate the accumulator.
► Remove accessories.

To prevent damage during storage:

► Pack or cover the bed and accessories.
► Ensure that storage conditions are the same as the operating conditions.

10.3 Deactivating the Accumulator

To avoid damaging the bed and the environment during storage:

► Deactivate the accumulator.

To deactivate the accumulator:

► Disconnect the bed from the mains.
► Disconnect the ground wire.

► Activate the keypad by pressing the button ⏻ .

► Press the Thighrest Up + Thighrest Down + Trendelenburg Tilt buttons at the same time and hold them for 3 seconds. The accumulator is deactivated.

Fig. Deactivation of the accumulator (Nurse Control Panel)

Fig. Deactivation of the accumulator (Attendant Control Panel)

To activate the accumulator again:

► Connect Power Cable to the mains.

11 Manipulation

⚠️ **WARNING!**
Risk of injury when adjusting the bed!
- ► Ensure that there are no body parts between the mattress support platform elements and the mattress support platform frame when adjusting the bed.
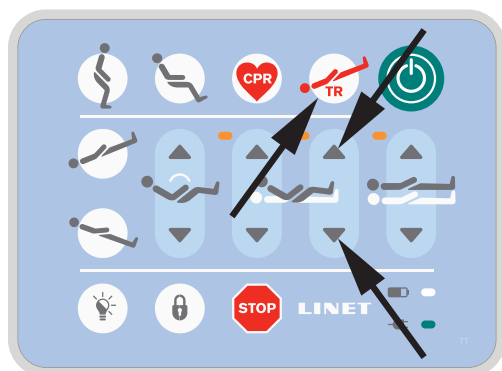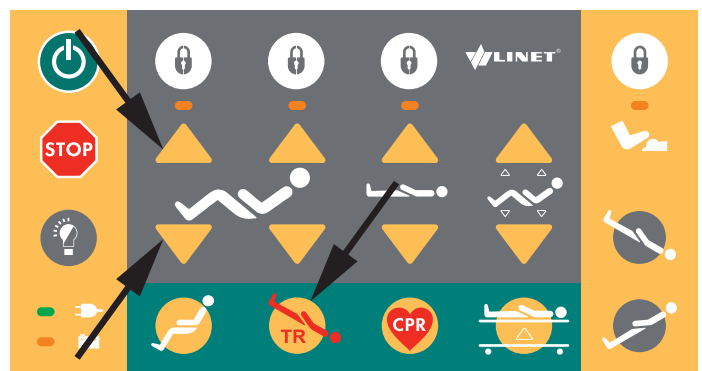- ► Ensure that there are no body parts below the mattress support platform frame before adjusting the bed.

11.1 Siderails

The split siderails are components of the bed in contact with patient. A pneumatic spring supports the operation of the split siderails. The nursing personnel are responsible for the siderails being raised up while the patient is in bed.

⚠️ **WARNING!**
Risk of injury, damaging or unintentional movement of the bed due to incorrect placement of accessories or Handset!
- ► Never place any accessories or Handset on the siderails in the area where keyboards are located.
- ► Never place Handset on the edge of siderail.
The correct placement of Handset is shown at following pictures.

⚠️ **WARNING!**
Risk of injury due to incorrectly latched siderail!
- ► Ensure that siderail is secured in the upper or lower position.

⚠️ **WARNING!**
Risk of injury due to incorrect position of siderails!
- ► Ensure that siderails are folded up while the patient is in bed.

SIDERAIL DESCRIPTION (version with Nurse Control Panel and iBoard Basic)
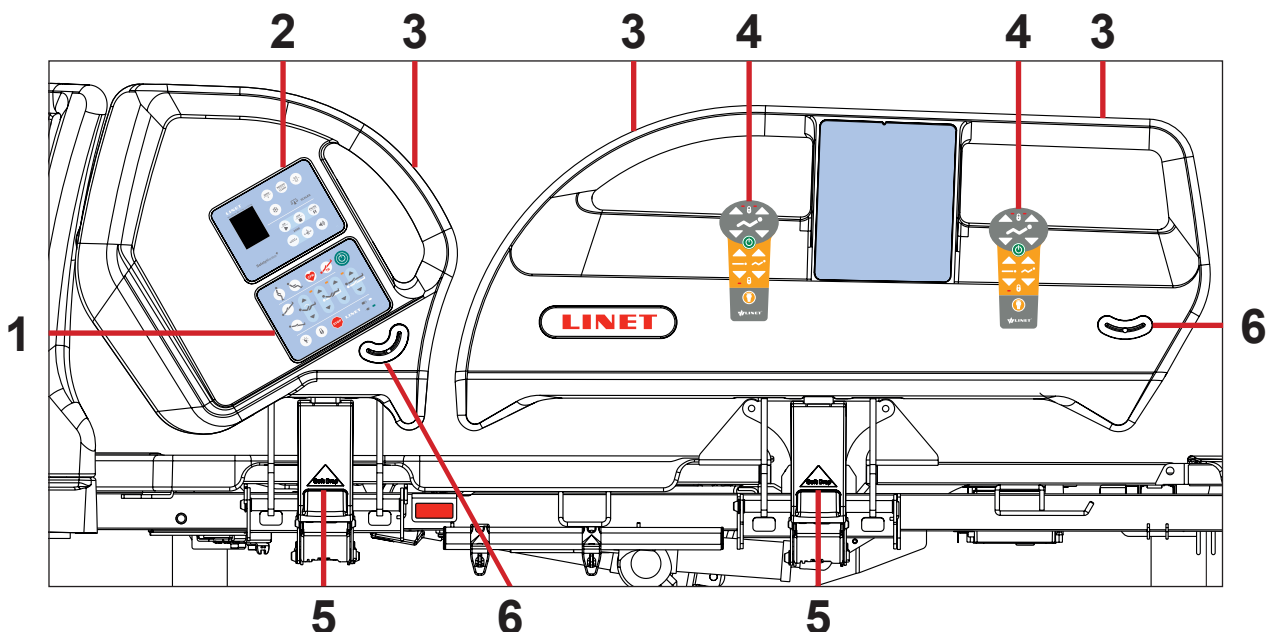
Fig. Siderails (version with Nurse Control Panel and iBoard Basic)

1. Nurse Control Panel
2. iBoard Basic
3. Siderail Handle
4. Correct Placement of Handset
5. Siderail Release Handle
6. Angle Indicator

MANIPULATION

To raise siderails up:
- ► Grab siderail by Siderail Handle (**3**).
- ► Pull siderail up until it latches.

To release siderails down:
- ► Grab siderail by Siderail Handle (**3**).
- ► Unlock siderail by pulling Siderail Release Handle (**5**) to yourself.
- ► Fold down siderail slowly.

SIDERAIL DESCRIPTION (version with Nurse Control Panel)

Fig. Siderails (version with Nurse Control Panel)

1. **Nurse Control Panel**
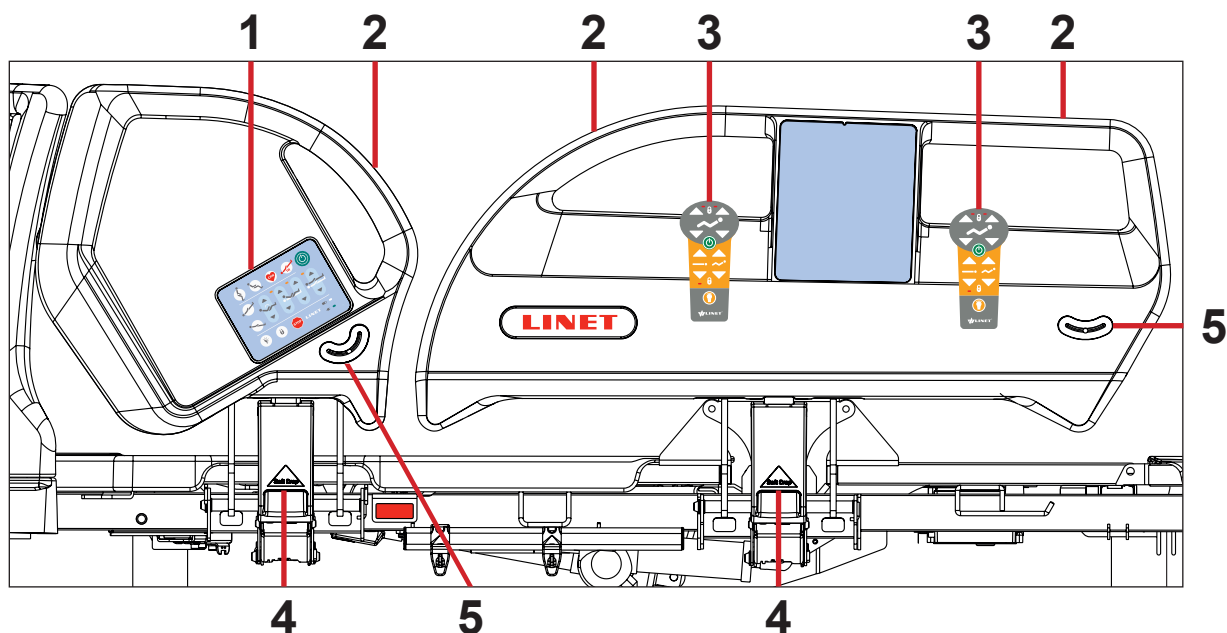2. **Siderail Handle**
3. **Correct Placement of Handset**
4. **Siderail Release Handle**
5. **Angle Indicator**

MANIPULATION

To raise siderails up:
► Grab siderail by Siderail Handle (**2**).
► Pull siderail up until it latches.

To release siderails down:
► Grab siderail by Siderail Handle (**2**).
► Unlock siderail by pulling Siderail Release Handle (**4**) to yourself.
► Fold down siderail slowly.

SIDERAIL DESCRIPTION (version with iBoard Basic)

Fig. Siderails (version with iBoard Basic)

1. **iBoard Basic**
2. **Siderail Handle**
3. **Correct Placement of Handset**
4. **Siderail Release Handle**
5. **Angle Indicator**

MANIPULATION

To raise siderails up:
► Grab siderail by Siderail Handle (**2**).
► Pull siderail up until it latches.

To release siderails down:
- ► Grab siderail by Siderail Handle (**2**).
- ► Unlock siderail by pulling Siderail Release Handle (**4**) to yourself.
- ► Fold down siderail slowly.

SIDERAIL DESCRIPTION (version without control panels)
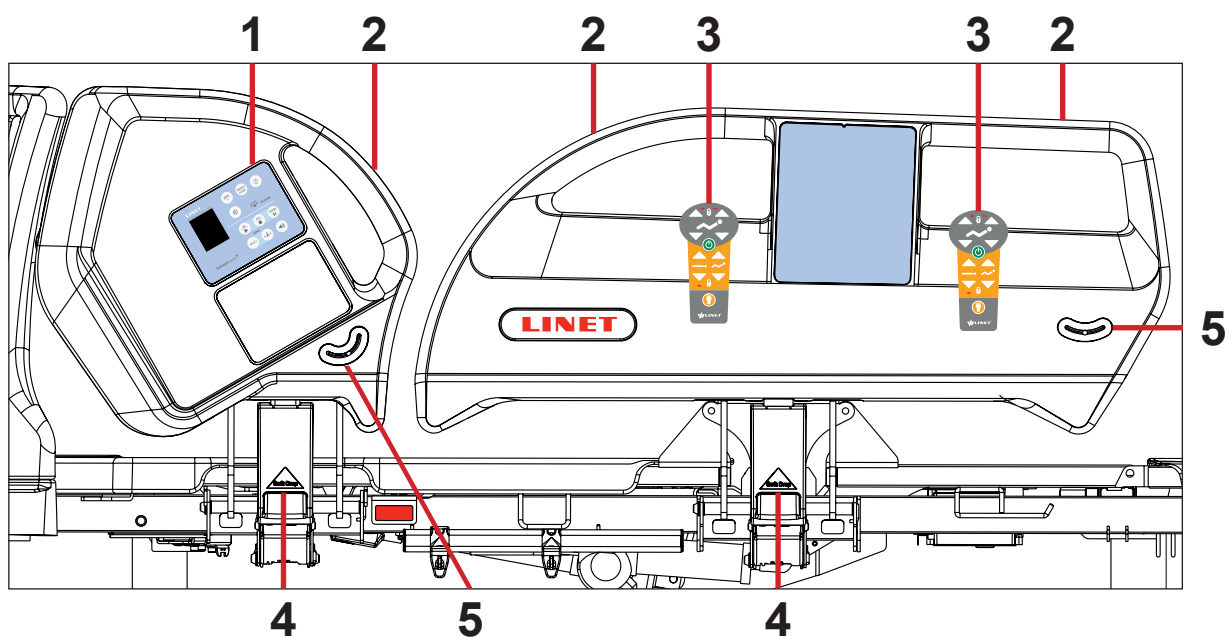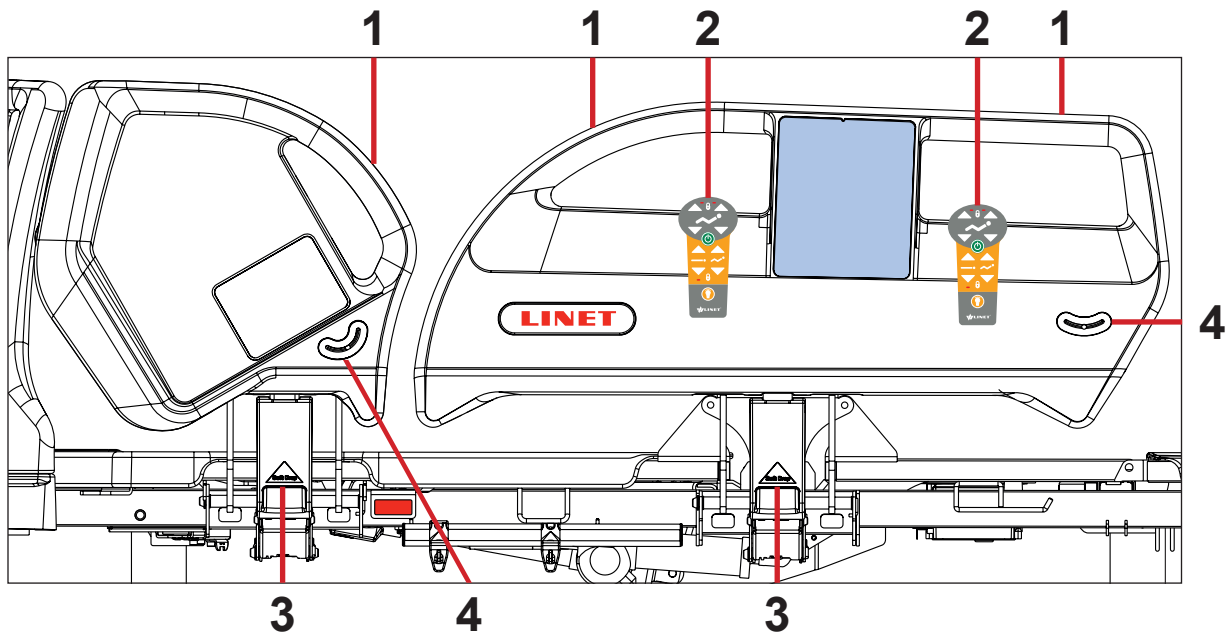

Fig. Siderails (version without control panels)

1. **Siderail Handle**
2. **Correct Placement of Handset**
3. **Siderail Release Handle**
4. **Angle Indicator**

MANIPULATION

To raise siderails up:
- ► Grab siderail by Siderail Handle (**1**).
- ► Pull siderail up until it latches.

To release siderails down:
- ► Grab siderail by Siderail Handle (**1**).
- ► Unlock siderail by pulling Siderail Release Handle (**3**) to yourself.
- ► Fold down siderail slowly.

11.2 Castor Control

⚠️ **CAUTION!**
Material damage due to incorrect transport and involuntary movement!
- ► Prior to transport, ensure that the bed is disconnected from the mains.
- ► Ensure that the castors are braked prior to assembly, disassembly and maintenance.
- ► Ensure that the castors are braked when the bed is occupied.
- ► Hang the mains cable on the transport hook on the bed during transport.
- ► Have the bed transported exclusively by nursing personnel and by at least 2 persons.

⚠️ **CAUTION!**
Minimal clearance underneath the bed (standard version with 15 cm castors) is 11,3 cm!
- ► Observe the path for any obstacles and avoid collisions and possible damages of any bed´s part on the undercarriage.
- ► Do not use bed lifts and hoists for lifting the bed.

The bed is equipped with central castor´s control and brake system.
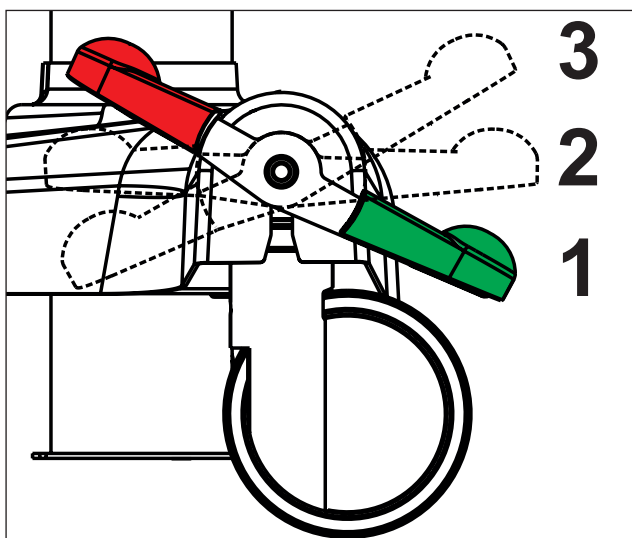The control levers are located in the four corners of the undercarriage.

Fig. Positions of Castor Control Lever

Castor control lever positions:

1. Forward Movement - Steering (GREEN PEDAL DOWN)

An arrested castor determines the direction of movement. 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 four castors are unlocked.

3. Braked (RED PEDAL DOWN)

All four castors are braked.

11.3 CPR Backrest Release

⚠️ **WARNING!**
Risk of injury due to lowering the backrest too quickly!
- ► Ensure that the siderails are in the low position.
- ► Ensure that there are no body parts between any movable parts of the bed.
- ► Push the Backrest down using the mattress guard handle only.

The bed allows quick, mechanical lowering of the backrest for emergency procedures (CPR).

Set the CPR position as follows:
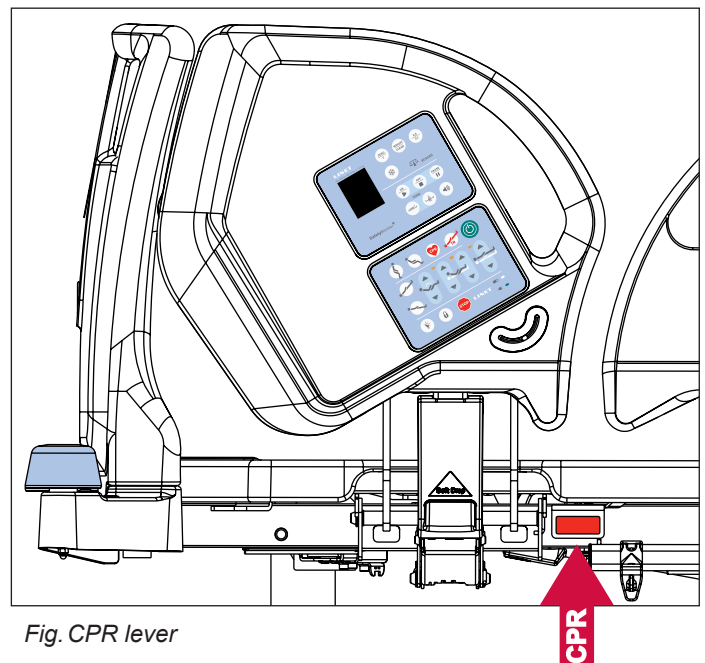- ► Pull and hold release handle.
- ► Push Backrest down.

Fig. CPR lever

11.4 Control Elements

The bed is operated by different control elements.

Control elements depending on the model:

- Nurse Control Panel in both head siderails
- iBoard Basic in both head siderails
- Attendant Control Panel
- Handset with illuminated buttons and with adapter for easy connection (Plug and Play)
- Patient Control Panel in both foot siderails
- Foot Switch - Bed Height

Disabling individual functions on the Attendant Control Panel or on the Nurse Control Panel will affect all control elements.

If the bed does not react to individual position settings:

► Check whether the function is disabled on the Attendant Control Panel or on the Nurse Control Panel.

POSITIONING	Nurse Control Panel	Attendant Control Panel	Handset	Patient Control Panel	Foot Switch-Bed Height
Backrest	✔	✔	✔	✔	
Thighrest	✔	✔	✔	✔	
Bed Height	✔	✔	✔		✔
Autocontour	✔	✔	✔	✔	
Examination Position		✔			✔
Emergency Trendelenburg Position	✔	✔			
Anti-Trendelenburg and Trendelenburg Tilt	✔	✔			
CPR Position	✔	✔			
Cardiac Chair Position	✔	✔			
Mobilization Position	✔				

11.4.1 Nurse Control Panel (optional)

The Nurse Control Panel is the main Control Element for the caregivers. It is integrated in the outside of both head siderails.
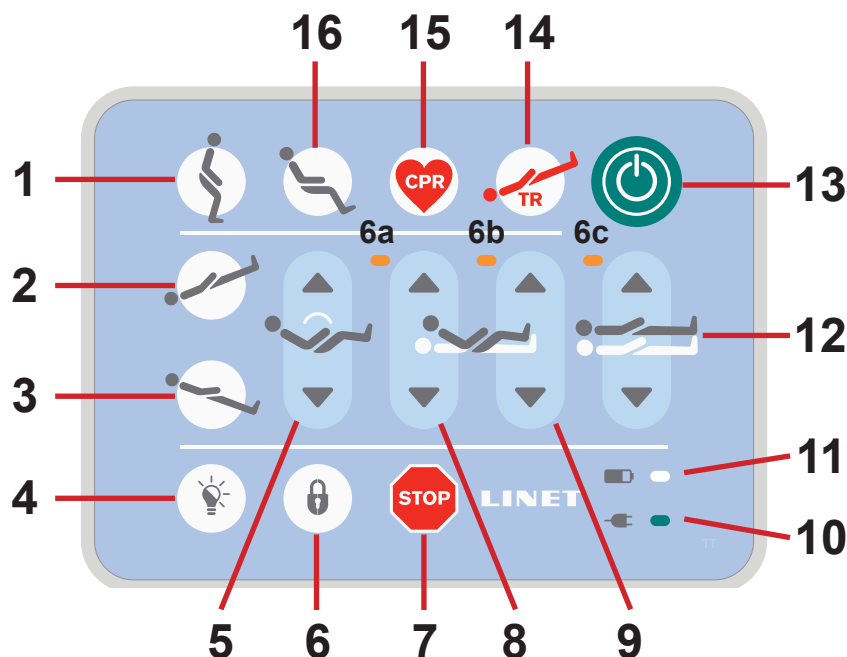► Ensure that exclusively trained nursing staff operates the Nurse Control Panel.

Fig. Nurse Control Panel

1. Mobilization Position Button
2. Trendelenburg Tilt Button
3. Anti-Trendelenburg Tilt Button
4. LIGHT CONTROL Button
5. Autocontour Adjustment Buttons (simultaneous movement of the Backrest and Thighrest)
6. LOCK Button
6a. Locked Backrest LED
6b. Locked Thighrest LED
6c. Locked Bed Height, Trendelenburg Tilt and Anti-Trendelenburg Tilt LED
7. Central STOP Button
8. Backrest Adjustment Buttons
9. Thighrest Adjustment Buttons
10. Mains Power LED
11. Accumulator LED
12. Bed Height Adjustment Buttons
13. GO Button
14. Emergency Trendelenburg Position Button
15. CPR (Resuscitation) Position Button
16. Cardiac Chair Position Button

Positioning buttons **1, 2, 3, 5, 8, 9, 12, 14, 15** and **16** are explained in chapter **Bed Positioning.**

GO BUTTON

The button ![GO] activates the keyboard of all Control Elements.

Pressing button ![GO] will keep the keyboard active for 3 minutes.

Pressing a button will keep the keyboard active for another 3 minutes.

During this time the following is possible:
► Adjusting individual Mattress support platform elements by pressing the corresponding positioning buttons.
► Disabling individual functions with the lock buttons.

NOTE: To activate CPR function (button) the button is not needed.

STOP BUTTON

Pressing button immediately stops all electronic bed movements.

LOCK

To lock Backrest Adjustment:

►   Press button .

LED Lock **6a, 6b** and **6c** are flashing.
►   During flashing of the LEDs press any button **8**.
LED Lock **6a** is lit.
Backrest Adjustment is disabled using any Control Element.

To lock Thighrest:

►   Press button .

LED Lock **6a**, **6b** et **6c** are flashing.
►   During flashing of the LEDs press any button **9**.
LED Lock **6b** is lit.
Thighrest is disabled using any Control Element.

To lock Bed Height, Trendelenburg Tilt and Anti-Trendelenburg Tilt :
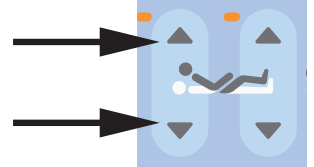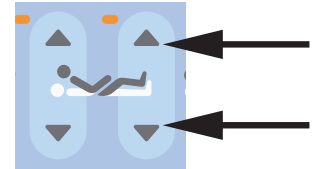
►   Press button .

LED Lock **6a**, **6b** et **6c** are flashing.
►   During flashing of the LEDs press any button **12**.
LED Lock **6c** is lit.
Bed Height, Trendelenburg Tilt and Anti-Trendelenburg Tilt are disabled using any Control Element.

UNLOCK

To unlock Backrest Adjustment:

►   Press button .

LED Lock **6a**, **6b** et **6c** are flashing.
►   During flashing of the LEDs press any button **8**.
LED Lock **6a** is unlit.
Backrest Adjustment is enabled again.

To unlock Thighrest:

►   Press button .

LED Lock **6a**, **6b** et **6c** are flashing.
►   During flashing of the LEDs press any button **9**.
LED Lock **6b** is unlit.
Thighrest is enabled again.

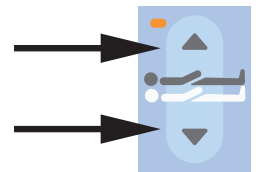**To unlock Bed Height, Trendelenburg Tilt and Anti-Trendelenburg Tilt:**

► Press button 🔓 .

LED Lock **6a**, **6b** et **6c** are flashing.
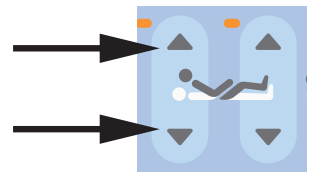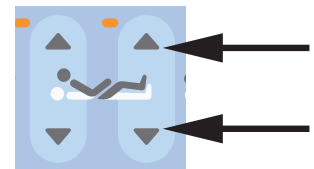► During flashing of the LEDs press any button **12**.
LED Lock **6c** is unlit.
Bed Height, Trendelenburg Tilt and Anti-Trendelenburg Tilt are enabled again.
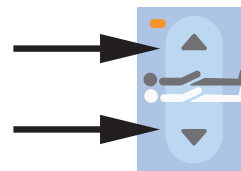
LOCKED FUNCTION SIGNALISATION

If **LED 6a** is lit, Backrest Adjustment is locked.

If **LED 6a** is not lit, Backrest Adjustment is unlocked.

If **LED 6b** is lit, Thighrest is locked.

If **LED 6b** is not lit, Thighrest is unlocked.

If **LED 6c** is lit, Bed Height and Trendelenburg Tilt and Anti-Trendelenburg Tilt are locked.

If **LED 6c** is not lit, Bed Height and Trendelenburg Tilt and Anti-Trendelenburg Tilt are unlocked.

ACCUMULATOR INDICATOR

Signalisation of Accumulator LED 🔋 is described in chapter **Accumulator**.

MAINS POWER LED 🔌

Status	Meaning
lit LED	connected to the mains
unlit LED	disconnected from the mains
flashing LED	system error

LIGHT CONTROL BUTTON

To turn off lights of the control elements:

► Press button 💡 .

To turn on lights of the control elements again:

► Press button 💡 .

11.4.2 iBoard Basic (standard)

The iBoard Basic is the standard control element for the caregivers. It is integrated in the outside of both head siderails. Only bed version with scales can be equipped with iBoard Basic. The iBoard Basic serves for control of scales and control of Bed Exit Monitoring.

► Ensure that exclusively trained nursing staff operates the iBoard Basic.

Fig. iBoard Basic

1. Service check required Icon
2. Weight value
3. Backrest Angle Indicator
4. OFF icon (Bed Exit monitoring is OFF)
5. ON Button - Bed Exit monitoring
6. Inner Zone Button - Bed Exit monitoring
7. Outer Zone Button - Bed Exit monitoring
8. OFF Button - Bed Exit monitoring
9. Volume Icon (3 levels)
10. PAUSE Button - Bed Exit monitoring
11. Scale interval switch button (0,5kg/0,1kg)
12. WEIGHT/CLEAR Button (cancel)
13. ZERO/T Button (tare or zero scales)
14. HOLD Button
15. Unit of weight (kg)
16. Stabilized Scales Icon

Scales Section (only version with scales)

Eleganza 4 is optionally equipped with a weighing system that allows weighing the patient in bed. There are control buttons and display for the weighing system on the Scales section of iBoard Basic. Scales functions are described in chapter **Scales Control**.

Bed Exit Monitoring Section (only version with scales)

Eleganza 4 is optionally equipped with a Bed Exit Monitoring system that monitores patient´s presence in bed and triggers alarms when patient is not present in bed. There are control buttons and display for the Bed Exit Monitoring on the SafetyMonitor section of iBoard Basic. Functions of Bed Exit Monitoring are described in chapter **Bed Exit Monitoring**.

Statuses (iBoard Basic)

Signalisation	Meaning	Required Action
🔒	Function locked	Unlock function
⏻	GO Button not activated	Activate GO Button
OVERLOAD + ⚠	Safe Working Load exceeded	Remove load!
STOP SERVICE + 🔧 + ⚠	System Fatal Error	Contact service department approved by manufacturer.
SCALE / BEA DISCONNECTED + ⚠ + 🔧	Scales System disconnected and Bed Exit monitoring disabled	Contact service department approved by manufacturer.
⚠ kg/lb < MIN	Insufficient load for Bed Exit monitoring	Place patient on the bed to enable the Bed Exit monitoring.
⚠ 🔌	Disconnected from the mains power supply during Bed Exit monitoring or during activation of the Bed Exit monitoring	Connect bed to the mains in order to start Bed Exit monitoring again.
BED EXIT + ⚠ **ALARM** + ⚠	The patient has left the bed (Outer Zone monitoring) or the patient has left the Inner Zone (Inner Zone monitoring).	Check the patient and turn off the Bed Exit Alarm.

11.4.3 Attendant Control Panel

The Attendant Control Panel is a standard control element. The Attendant Control Panel can be hung on the foot board or on the siderails if required. The Attendant Control Panel can be stored in the Linen Shelf. It is possible to hold the Attendant Control Panel in the hand while operating.

▶ Ensure that exclusively trained nursing staff operates the Attendant Control Panel.
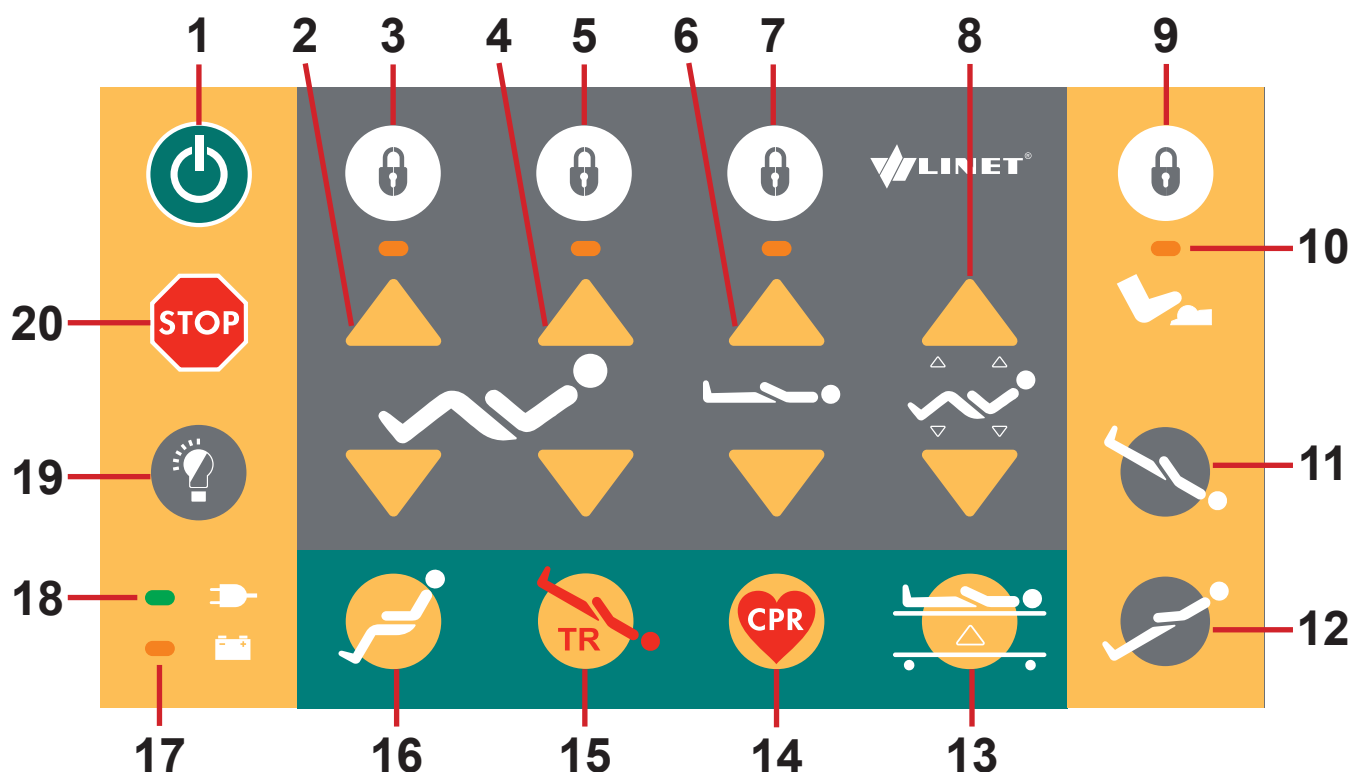
Fig. Attendant Control Panel

1. **GO Button**
2. **Thighrest Adjustment Button**
3. **Thighrest Adjustment Lock Button and LED**
4. **Backrest Adjustment Button**
5. **Backrest Lock Button and LED**
6. **Bed Height Adjustment Button**
7. **Bed Height, Trendelenburg Tilt and Anti-Trendelenburg Tilt Lock Button and LED**
8. **Autocontour Adjustment Button**
9. **Foot Switch Lock Button**
10. **Foot Switch Lock LED**
11. **Trendelenburg Tilt Button**
12. **Anti-Trendelenburg Tilt Button**
13. **Examination Position Button**
14. **CPR Position Button**
15. **Emergency Trendelenburg Position Button**
16. **Cardiac Chair Position Button**
17. **Accumulator Charge Status LED**
18. **Mains Power LED**
19. **LIGHT CONTROL Button**
20. **STOP Button**

Central STOP Button

The central STOP Button immediately interrupts all bed movements in case of unauthorized bed positioning or an electronic failure. Pressing the central STOP Button for at least 0.3 seconds immediately stops all electronic bed movements.

Activating GO Button

The GO Button activates the keypad of all control elements for 3 minutes.
A GO Button is included on a number of different control elements. The function of the GO Button is identical on all control elements.

During this time the following is possible:
- ►   Adjusting individual mattress support platform elements by pressing the corresponding function buttons.
- ►   Disabling individual functions with the lock buttons.

Each time a function button is pressed, the keypad will remain active for another 3 minutes.

Function Buttons

The function buttons **2**, **4**, **6**, **8**, **11**, **12**, **13**, **14**, **15** and **16** are described in chapter **Bed Positioning**.

NOTE   Pressing two function buttons at the same time will be recognized as an error by the controller. The controller will interrupt immediately all bed movements and display shows adequate pop up.

Lock

To lock Backrest Adjustment:
- ►   Press button **5**.

Corresponding LED on Attendant Control Panel and on Nurse Control Panel (**6a**) are lit.
Backrest Adjustment is disabled using any Control Element.

To lock Thighrest Adjustment:
- ►   Press button **3**.

Corresponding LED on Attendant Control Panel and on Nurse Control Panel (**6b**) are lit.
Thighrest Adjustment is disabled using any Control Element.

To lock Bed Height, Trendelenburg Tilt and Anti-Trendelenburg Tilt Adjustment:
- ►   Press button **7**.

Corresponding LED on Attendant Control Panel and on Nurse Control Panel (**6c**) are lit.
Bed Height, Trendelenburg Tilt and Anti-Trendelenburg Tilt Adjustment are disabled using any Control Element.

To lock Foot Switches:
- ►   Press button **9**.

Corresponding LED (**10**) on Attendant Control Panel is lit.
Bed Height and Examination Position are disabled using Foot Switches.

Unlock

To unlock Backrest Adjustment:
- ►   Press button **5**.

Corresponding LED on Attendant Control Panel and on Nurse Control Panel (**6a**) are not lit.
Backrest Adjustment is enabled again.

To unlock Thighrest Adjustment:
- ►   Press button **3**.

Corresponding LED on Attendant Control Panel and on Nurse Control Panel (**6b**) are not lit.
Thighrest Adjustment is enabled again.

To unlock Bed Height, Trendelenburg Tilt and Anti-Trendelenburg Tilt Adjustment:
- ►   Press button **7**.

Corresponding LED on Attendant Control Panel and on Nurse Control Panel (**6c**) are not lit.
Bed Height, Trendelenburg Tilt and Anti-Trendelenburg Tilt Adjustment are enabled again.

To unlock Foot Switches:
- ►   Press button **9**.

Corresponding LED (**10**) on Attendant Control Panel is no lit.
Bed Height and Examination Position are enabled again.

MAINS POWER LED

Status	Meaning
lit LED	connected to the mains
unlit LED	disconnected from the mains
flashing LED	system error

11.4.4 Handset (optional)

The handset is available with illuminated keyboard.

NOTE   The illumination is activated for 7s if any button was pressed and the illumination is activated for 3 minutes if GO Button was pressed.

1. **Thighrest Adjustment Button**
2. **Thighrest/Backrest Lock LED**
3. **Backrest Adjustment Button**
4. **GO Button**
5. **Autocontour Adjustment Button**
6. **Flashlight Button**
7. **Height Lock LED**
8. **Bed Height Adjustment Button**
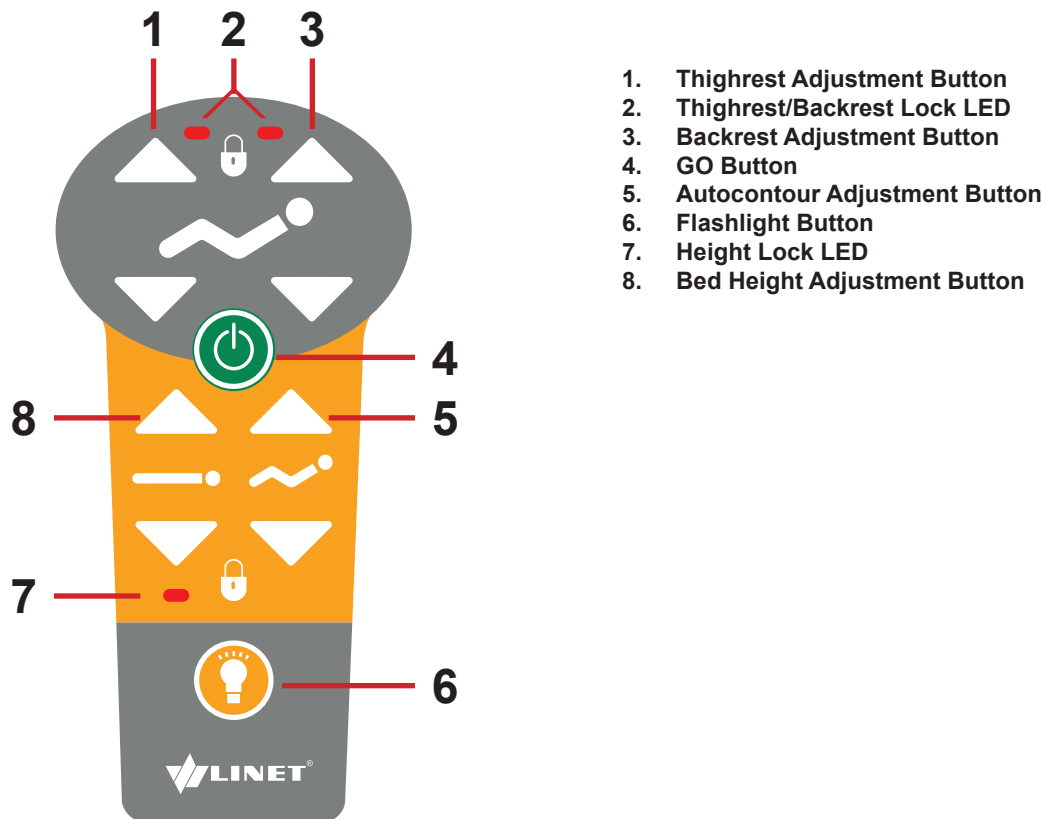
Fig. Handset

The function buttons **1**, **3**, **5** and **8** are described in chapter **Bed Positioning**.

To switch on the flashlight:
►   Press flashlight button **6**.

NOTE   Depending on the patient's condition, the nursing staff decides whether the patient is allowed to adjust the bed's position.

If required, prevent the patient from adjusting the bed as follows:
►   Disable functions.

NOTE   An adapter for the handset is available. The adapter enables quick installation and removal
         (e.g. replacing a defective handset, using the handset for another bed).

11.4.5 Foot Switch - Bed Height (optional)

The foot control is optional and allows setting the Height of the bed or Examination Position with one's feet.
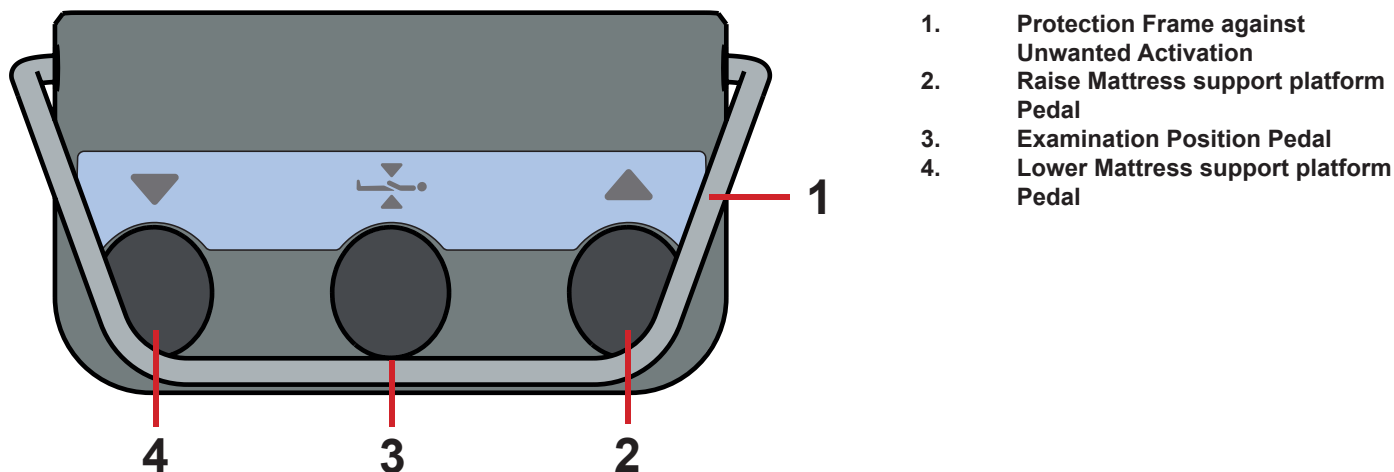

1. **Protection Frame against Unwanted Activation**
2. **Raise Mattress support platform Pedal**
3. **Examination Position Pedal**
4. **Lower Mattress support platform Pedal**

Fig. Foot Switch - Bed Height

The use of Foot Switch - Bed Height is described in the chapter **Bed Positioning**.

11.4.6 Patient Control Panels

The patient control panels integrated in the foot siderails allow the patient to adjust the positions of the Backrest, Thighrest and Autocontour.
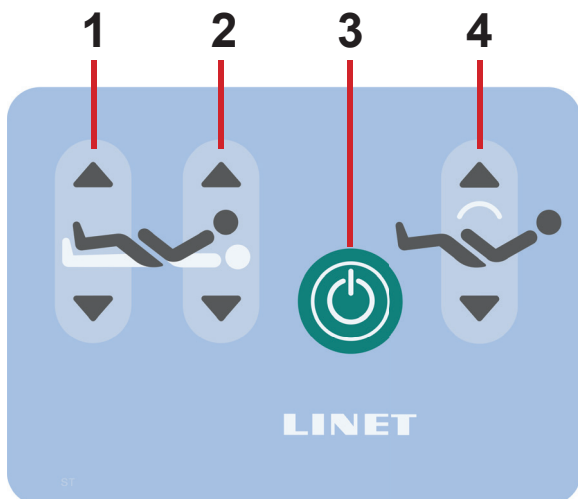

1. **Thighrest Adjustment Button**
2. **Backrest Adjustment Button**
3. **GO Button**
4. **Autocontour Adjustment Button (simultaneous movement of the Backrest and Thighrest)**

NOTE   Functions on the Patient Control Panel in the foot siderails are disabled when the foot siderail is in lower position.

Fig. Patient Control Panel in the foot siderails

11.5 Bed Positioning

11.5.1 Backrest
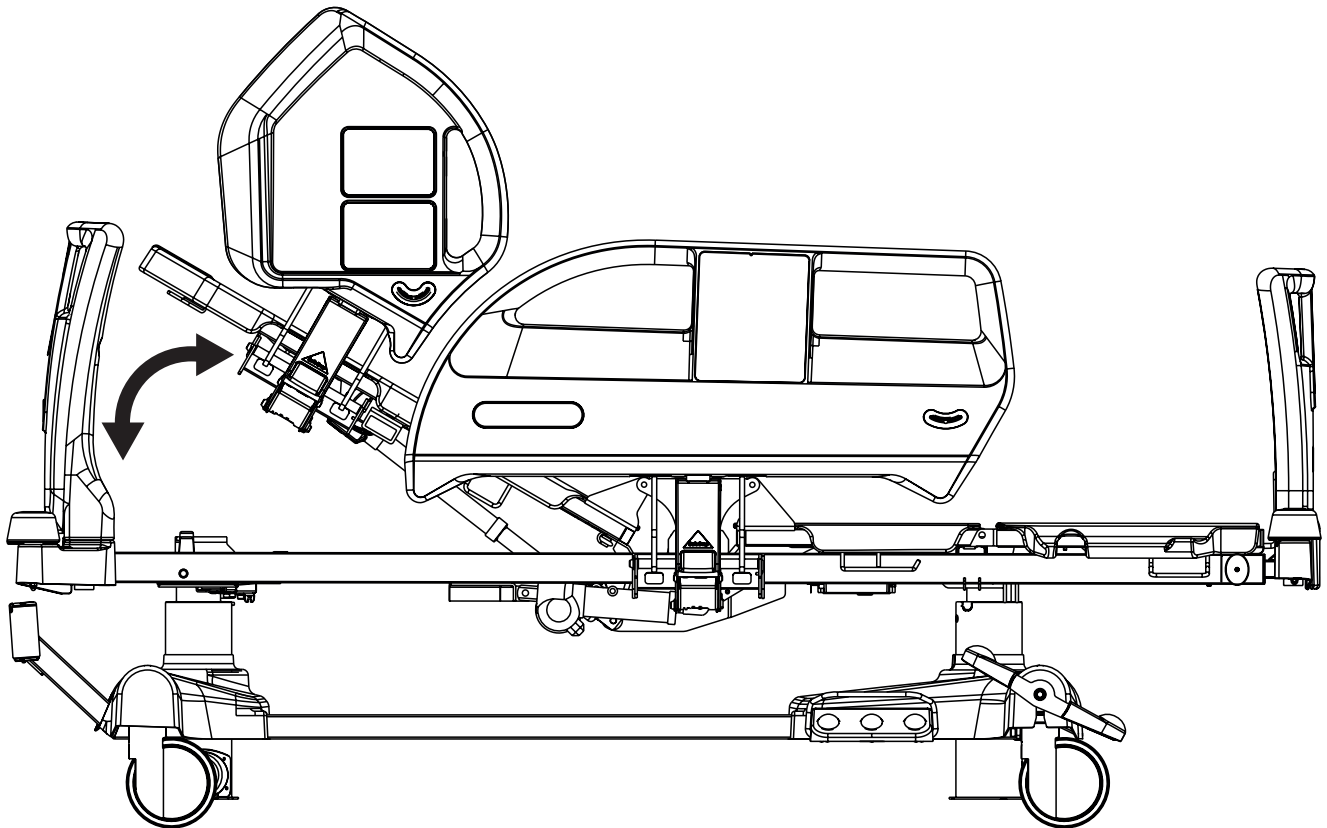
To position Backrest use:

► Nurse Control Panel
► Attendant Control Panel
► Handset
► Patient Control Panel

iBoard Basic Display shows Backrest Angle.

During continuous positioning Backrest stops automatically in 30 and 45 degrees. To continue in positioning release the button, then press and hold button until the desired position is reached.

Fig. Backrest Angle on iBoard Basic Display

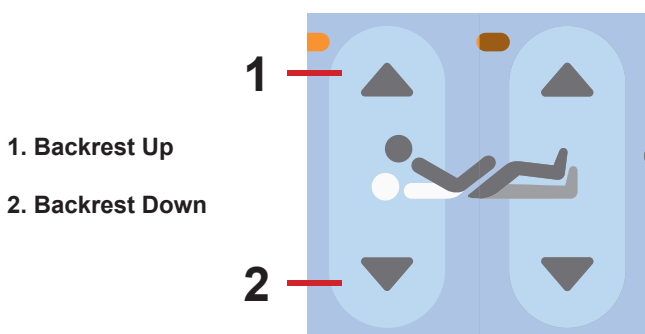**1. Backrest Up**

2. Backrest Down

Fig. Backrest Adjustment Button (Nurse Control Panel, Patient Control Panel)

Nurse Control Panel:

► Press button ⏻ .

► Press selected part of Backrest Adjustment Button until intended position is reached.

Patient Control Panel:

► Press button ⏻ .

► Press selected part of Backrest Adjustment Button until intended position is reached.

---

1. Backrest Up

2. Backrest Down

Fig. Backrest Adjustment Button (Attendant Control Panel)

Attendant Control Panel:

► Press button (⏻) .

► Press selected part of Backrest Adjustment Button until intended position is reached.

Fig. Backrest Adjustment Button (Handset)

Handset:

► Press button (⏻) .

► Press selected part of Backrest Adjustment Button until intended position is reached.

11.5.2 Thighrest

To position Thighrest use:

► Nurse Control Panel
► Attendant Control Panel
► Handset
► Patient Control Panel
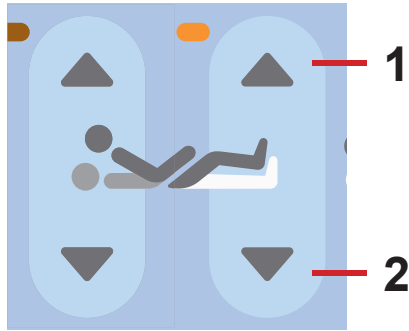
Fig. Thighrest Adjustment Button (Nurse Control Panel, Patient Control Panel)

Nurse Control Panel:

► Press button ⏻ .

► Press selected part of Thighrest Adjustment Button until intended position is reached.

Patient Control Panel:

► Press button ⏻ .

► Press selected part of Thighrest Adjustment Button until intended position is reached.
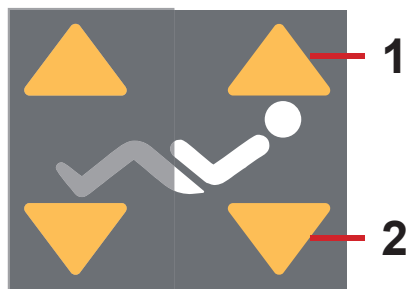
1. Thighrest Up

2. Thighrest Down

Fig. Thighrest Adjustment Button (Attendant Control Panel)

Attendant Control Panel:

► Press button ⏻ .

► Press selected part of Thighrest Adjustment Button until intended position is reached.
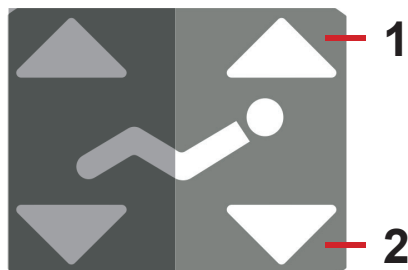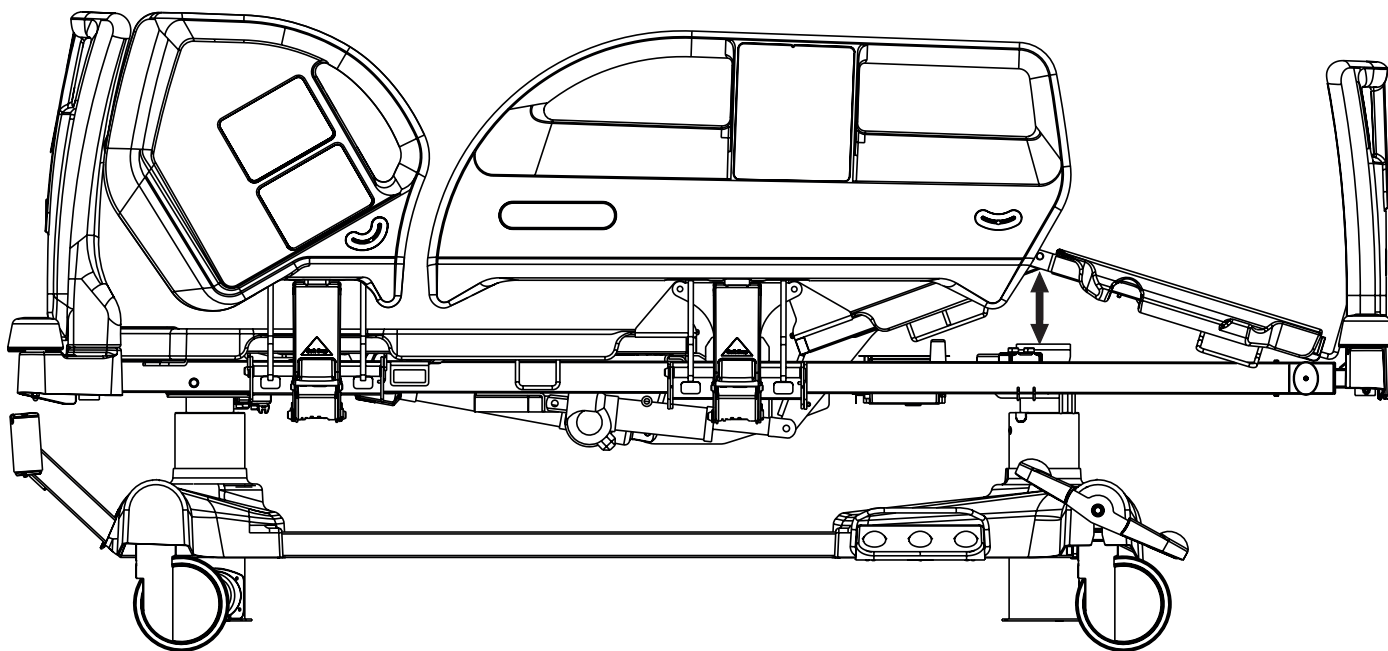

Fig. Thighrest Adjustment Button (Handset)

Handset:

► Press button ⏻ .

► Press selected part of Thighrest Adjustment Button until intended position is reached.

11.5.3 Mechanical Calfrest Adjustment
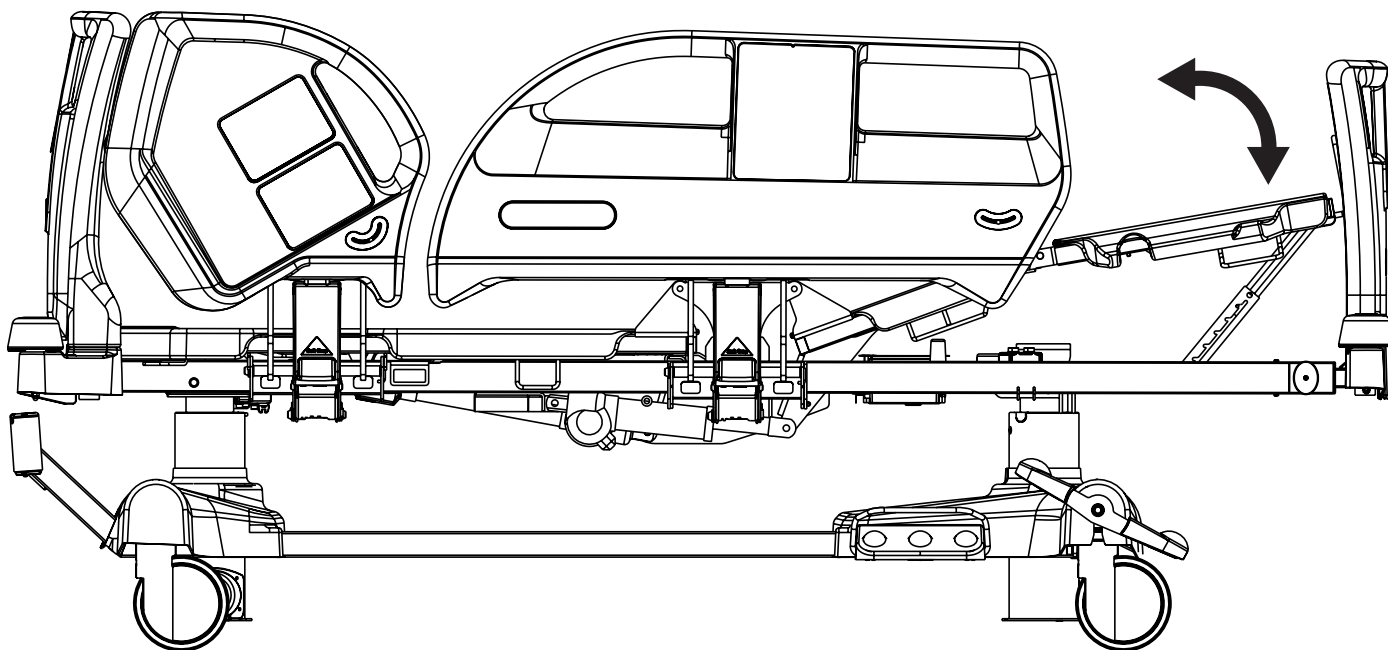
⚠ **WARNING!**
Incorrect manipulation can injure the patient or the user!
► Hold the Calfrest by both Calfrest Handles at all times when lowering the Calfrest.
► Lower the Calfrest carefully to prevent it from falling suddenly.

To raise the Calfrest:

► lift Calfrest by the handle to intended position.
► lower the Calfrest so that catch fits in the ratchet-bar.

To lower the Calfrest:

► lift Calfrest slightly by the handle.
► lower Calfrest to intended position.
► ensure the catch fits in the ratchet-bar.
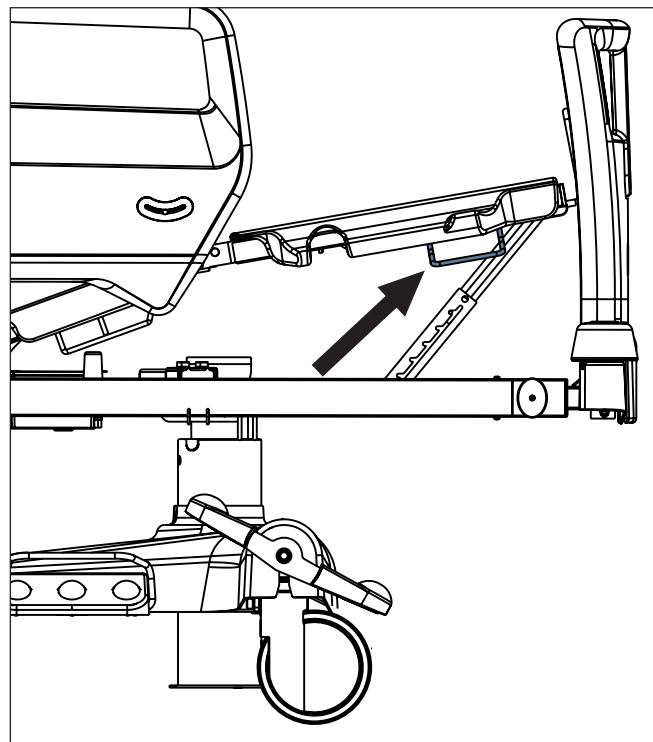
Fig. Position of Calfrest Handle

11.5.4 Bed Height
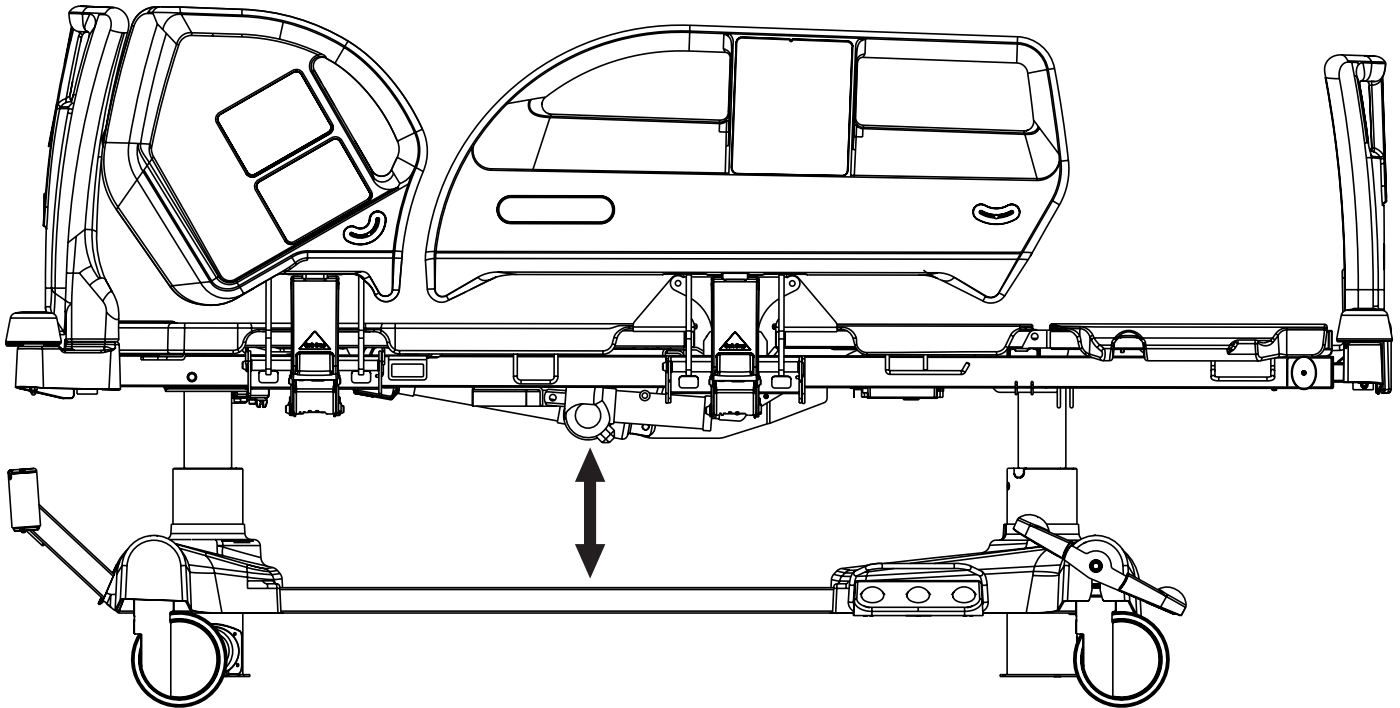
To position Bed Height use:

► Nurse Control Panel
► Attendant Control Panel
► Handset
► Foot Switch - Bed Height
► Mobi-Lift Handle

The bed stops above the lowest position during lowering, mattress support platform is adjusted to flat position and beep is performed. After this adjustment the lowering continues to the lowest position.
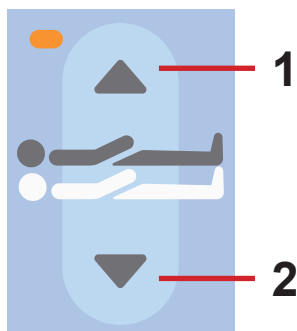
Fig. Bed Height Adjustment Button (Nurse Control Panel)

Nurse Control Panel:

► Press button ⏻ .

► Press selected part of Bed Height Adjustment Button until intended position is reached.

1. Mattress support platform Up
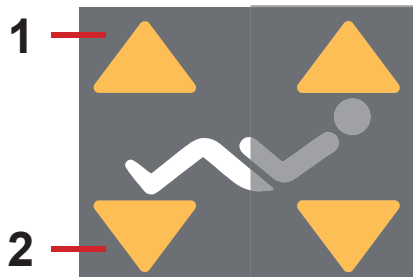**2. Matress support platform Down**
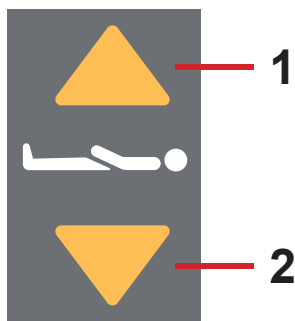
Fig. Bed Height Adjustment Button
(Attendant Control Panel)

Attendant Control Panel:

► Press button ⏻ .

► Press selected part of Bed Height Adjustment Button
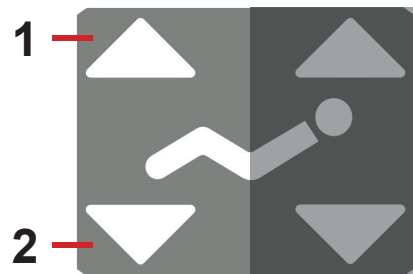until intended position is reached.

Fig. Bed Height Adjustment Button
(Handset)

Handset:

► Press button ⏻ .

► Press selected part of Bed Height Adjustment Button
until intended position is reached.

1. Mattress support platform Up
2. Matress support platform Down
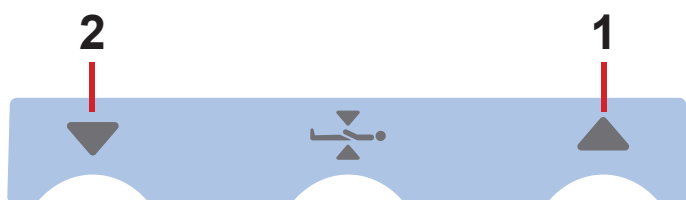
Fig. Bed Height Adjustment Pedals (Foot Switch - Bed Height)

Foot Switch - Bed Height:

► Press and release the selected Bed Height Adjustment Pedal
to activate the panel.
► Press and hold selected Bed Height Adjustment Pedal
until intended position is reached.

NOTE There must be less than 20 seconds between these 2
steps.
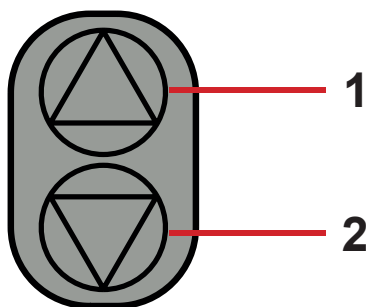
Fig. Mobi-Lift Bed Height Button

Mobi-Lift:

► Press button ⏻ .

► Press selected part of Mobi-Lift Bed Height Button
until intended position is reached.

11.5.5 Autocontour
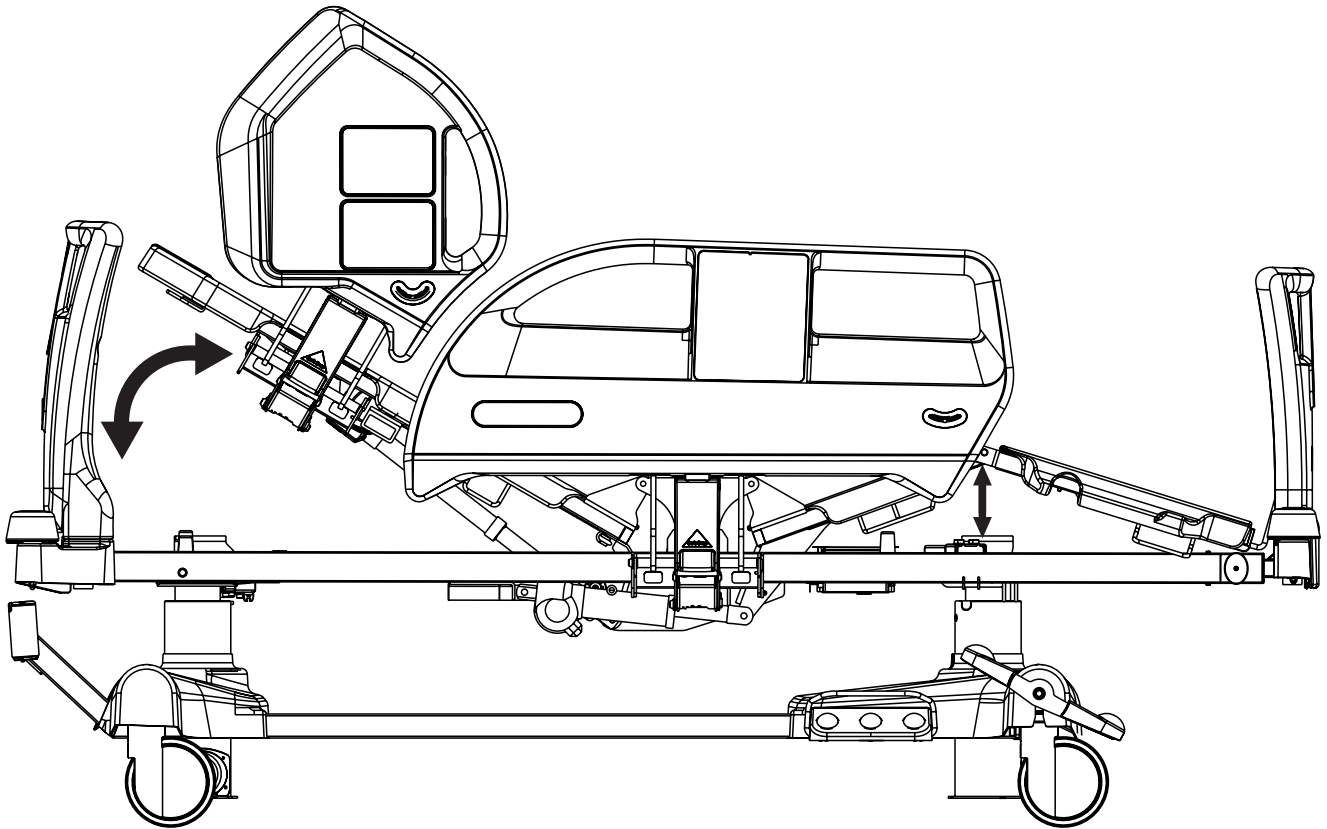
To position Autocontour use:

► Nurse Control Panel
► Attendant Control Panel
► Handset
► Patient Control Panel
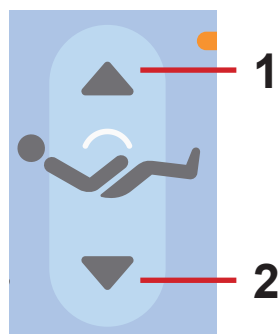
Fig. Autocontour Adjustment Button (Nurse Control Panel, Patient Control Panel)

1. Autocontour Up

2. Autocontour Down

Nurse Control Panel:

► Press button ⏻ .

► Press selected part of Autocontour Adjustment Button until intended position is reached.
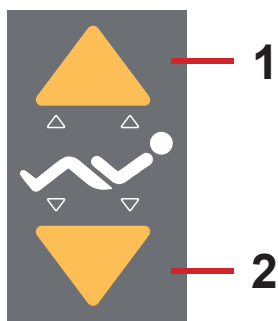
Patient Control Panel:

► Press button ⏻ .

► Press selected part of Autocontour Adjustment Button until intended position is reached.

Fig. Autocontour Adjustment Button (Attendant Control Panel)

1. Autocontour Up

2. Autocontour Down

Fig. Autocontour Adjustment Button (Handset)

Attendant Control Panel:

► Press button [⏻] .

► Press selected part of Autocontour Adjustment Button until intended position is reached.
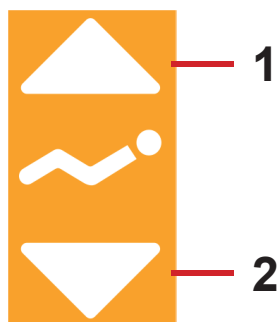
Handset:

► Press button [⏻] .

► Press selected part of Autocontour Adjustment Button until intended position is reached.

11.5.6 Examination Position
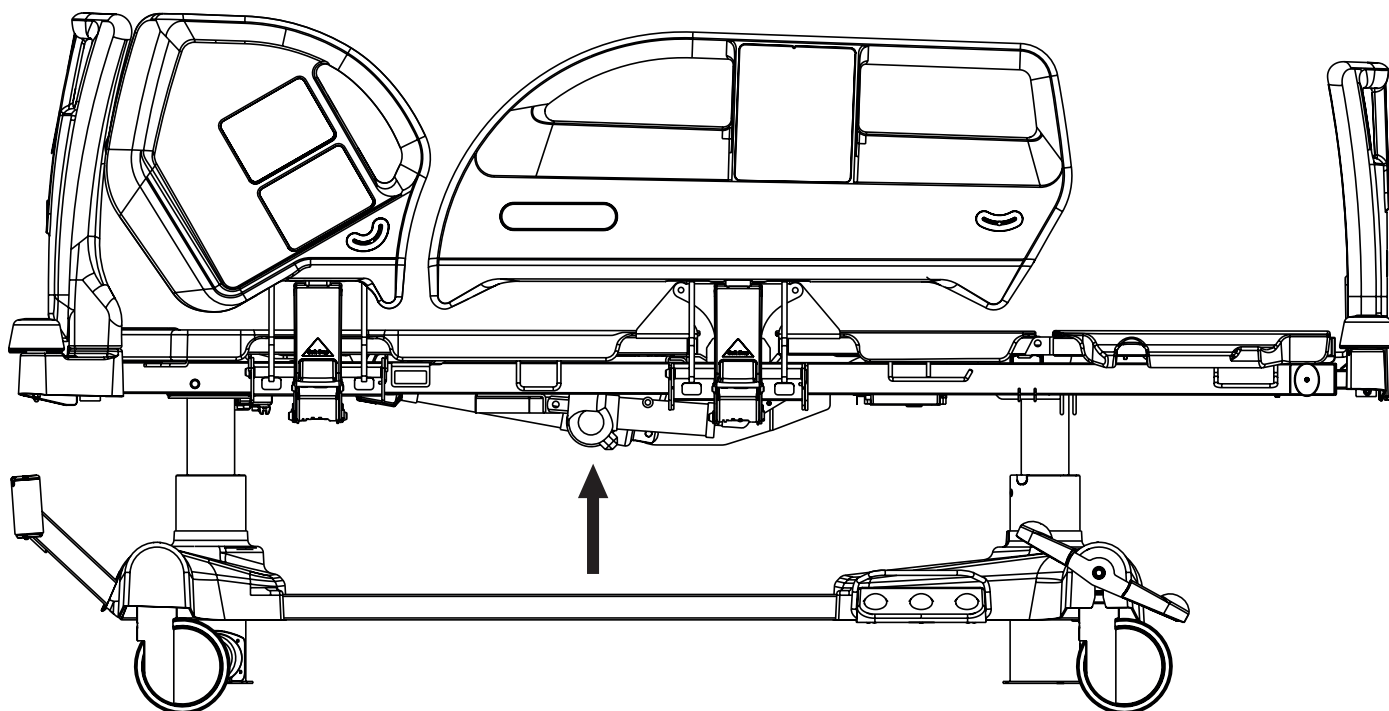
To position Examination Position use:

► Attendant Control Panel
► Foot Switch - Bed Height

Fig. Examination Position Button (Attendant Control Panel)
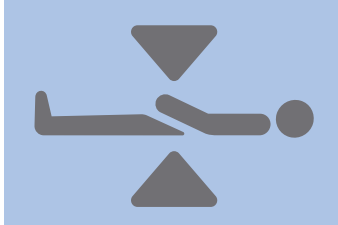
Fig. Examination Position Pedal (Foot Switch - Bed Height)

Attendant Control Panel:

► Press button ⏻ .

► Press Examination Position Button
 until intended position is reached.

Foot Switch - Bed Height:

► Press and release the middle pedal to activate the panel.
► Press and hold Examination Position Pedal
 until intended position is reached.

NOTE There must be less than 20 seconds between these 2 steps.

11.5.7 Emergency Trendelenburg Position
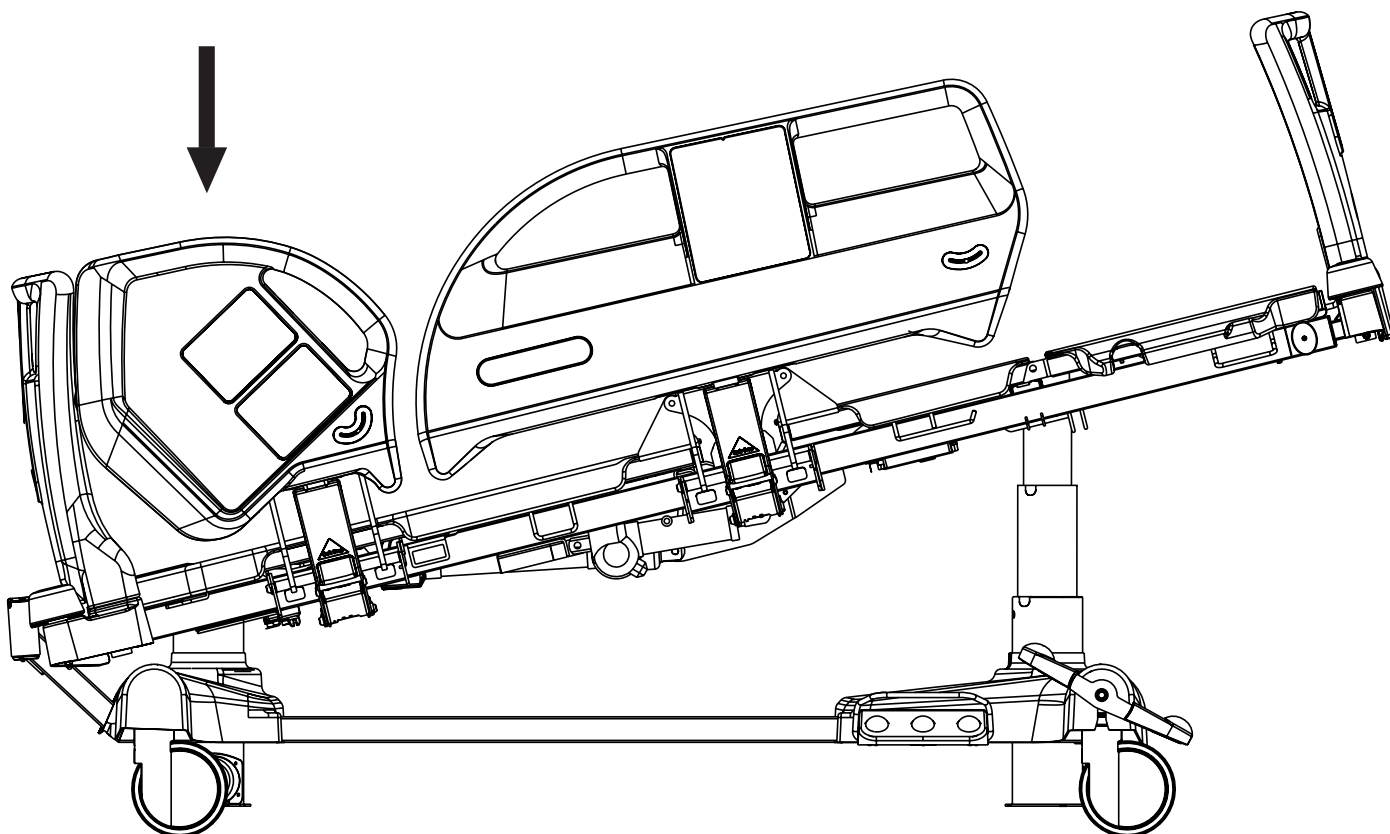
Fig. Emergency Trendelenburg Position/Trendelenburg Tilt

To position Emergency Trendelenburg Position use:

► Nurse Control Panel
► Attendant Control Panel

Trendelenburg position provides anti-shock conditions for the patient.
During Trendelenburg Position Mattress support platform is straightened in the tilt.
The LOCK function does not influence the Emergency Trendelenburg Position function!
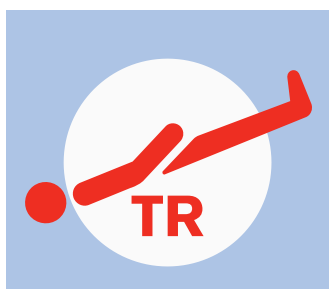
Fig. Emergency Trendelenburg Position Button (Nurse Control Panel)

Nurse Control Panel:

► Press button ⏻ .

► Press Emergency Trendelenburg Position Button until intended position is reached.
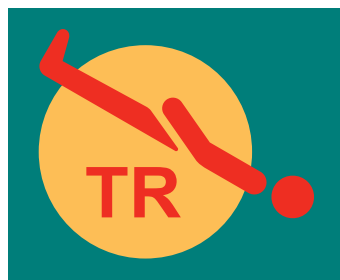
Fig. Emergency Trendelenburg Position Button (Attendant Control Panel)

Attendant Control Panel:

► Press button ⏻ .

► Press Emergency Trendelenburg Position Button until intended position is reached.

11.5.8 Anti-Trendelenburg Tilt and Trendelenburg Tilt
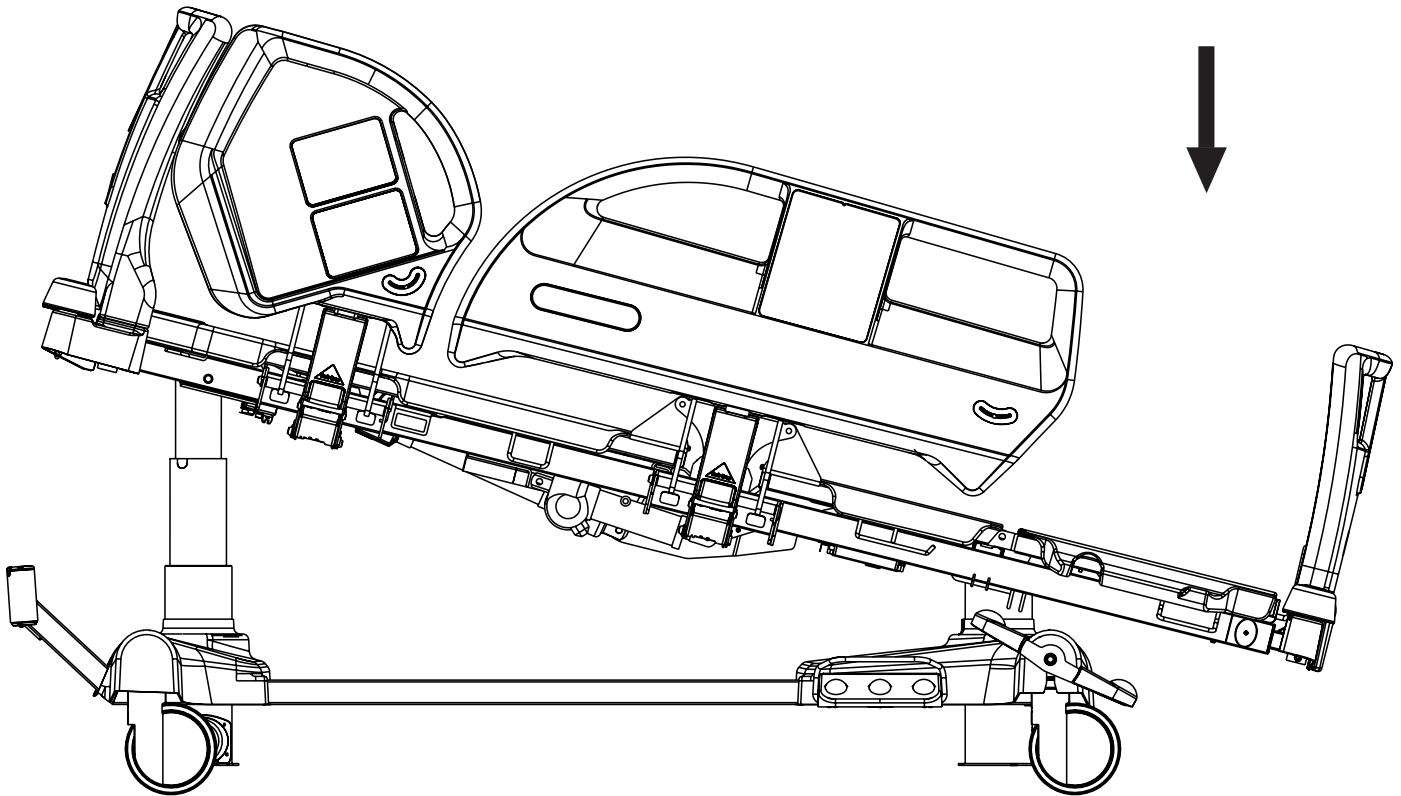
Fig. Anti-Trendelenburg Tilt

To position Trendelenburg Tilt or Anti-Trendelenburg Tilt use:

► Nurse Control Panel
► Attendant Control Panel

Depending on configuration, the bed stops in the horizontal position (0°) during tilting.
To continue tilting press the corresponding tilt button.
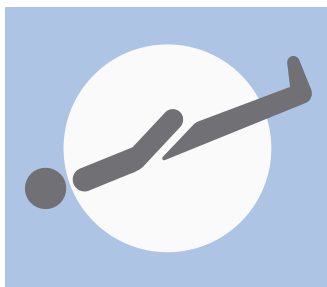
*Fig. Trendelenburg Tilt Button
(Nurse Control Panel)*

Nurse Control Panel:

► Press button ⏻ .

► Press Trendelenburg Tilt Button
  until intended position is reached.
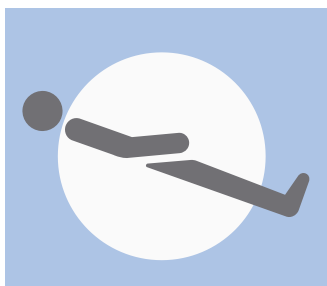
*Fig. Anti-Trendelenburg Tilt Button
(Nurse Control Panel)*

Nurse Control Panel:

► Press button ⏻ .

► Press Anti-Trendelenburg Tilt Button
  until intended position is reached.

Fig. Trendelenburg Tilt Button (Attendant Control Panel)

Attendant Control Panel:

► Press button .

► Press Trendelenburg Tilt Button until intended position is reached.

Fig. Anti-Trendelenburg Tilt Button (Attendant Control Panel)

Attendant Control Panel:

► Press button .

► Press Anti-Trendelenburg Tilt Button until intended position is reached.

11.5.9 CPR Position
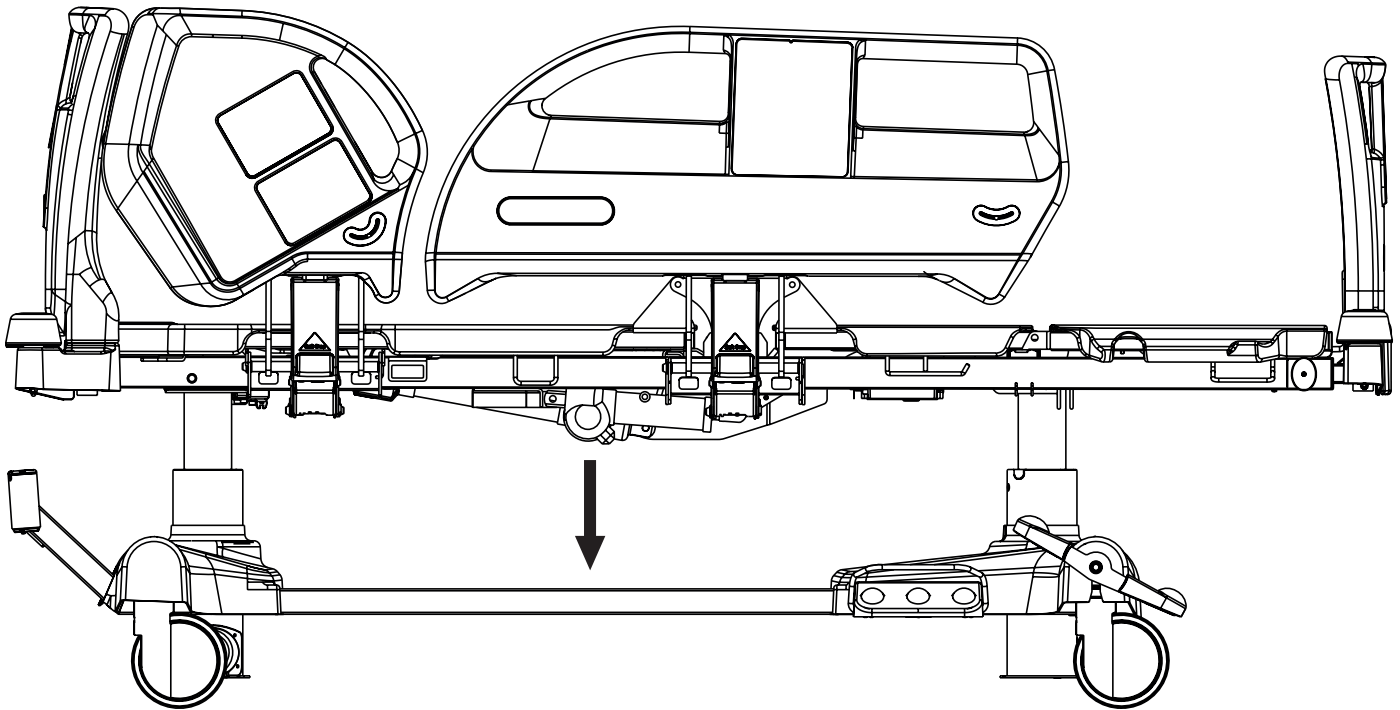
To position CPR Position use:

► Nurse Control Panel
► Attendant Control Panel

In CPR Position the mattress support platform is adjusted to the lowest height and all the parts of the mattress support platform are in the basic (flat) position.

Nurse Control Panel:

► Press CPR Position Button
until intended position is reached.

Fig. CPR Position Button (Nurse Control Panel)

Attendant Control Panel:

► Press CPR Position Button
until intended position is reached.

Fig. CPR Position Button (Attendant Control Panel)

11.5.10 Mechanical Bed Extension
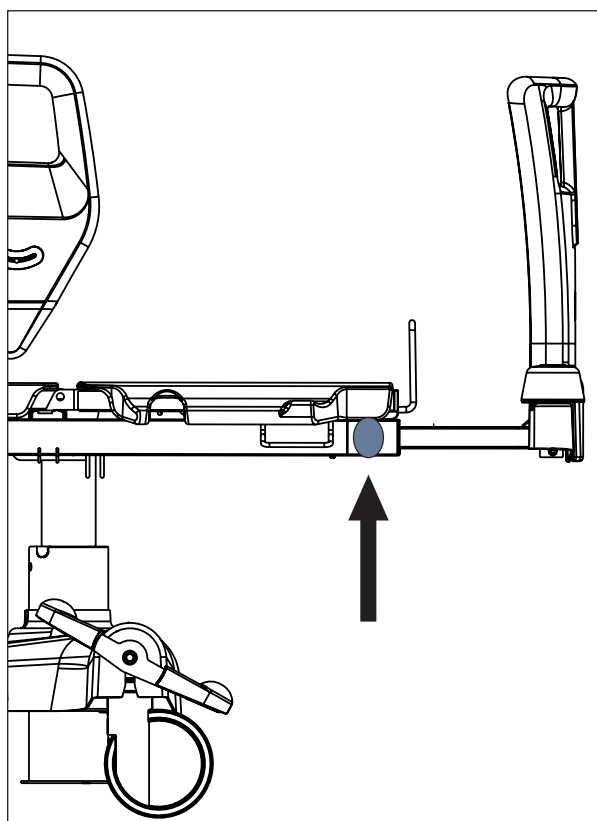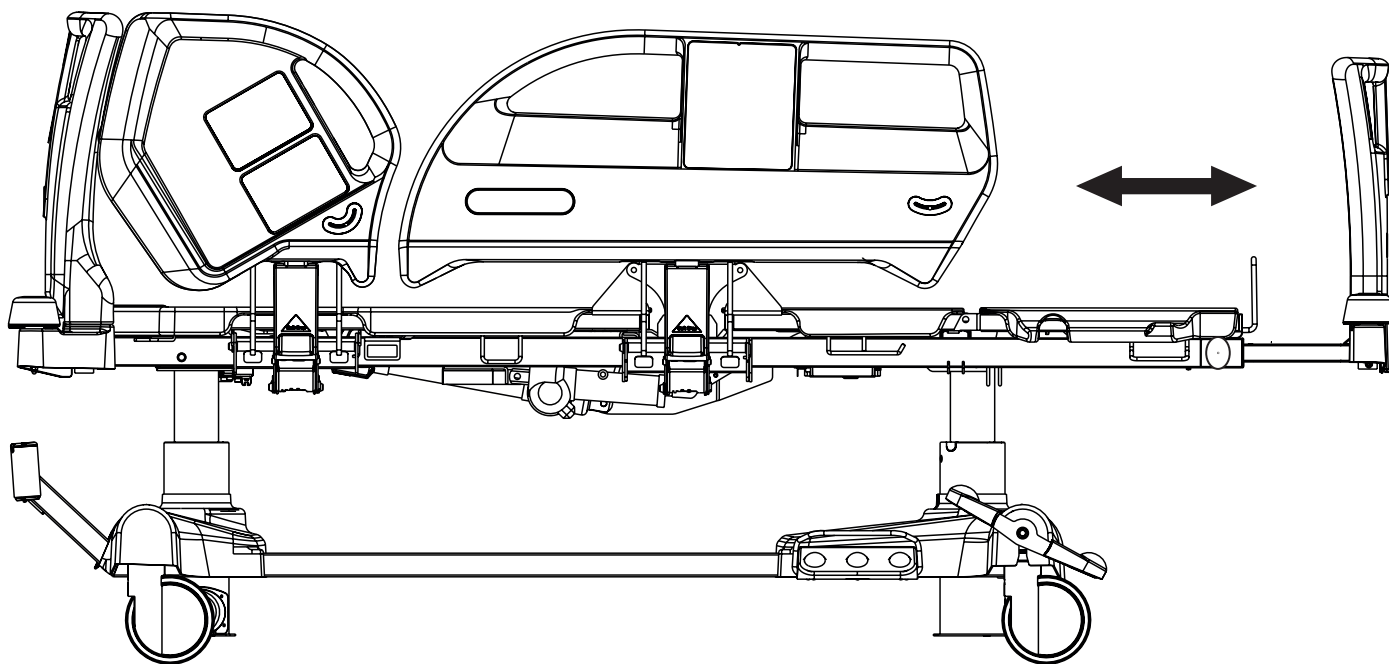
There are 2 positions of the Bed Extension.

To extend the bed:

► Pull out the Safety Catches at Foot End on the both sides of the frame.
► Turn the Safety Catches by 90°.
The Safety Catches are released.
► Pull the Foot Board to the selected position.
► Turn the Safety Catches by 90° and push them in to fix the extension position.

To shorten the bed:

► Pull out the Safety Catches at Foot End on both sides of the frame.
► Turn the Safety Catches by 90°.
The Safety Catches are released.
► Push the Foot Board to the selected position.
► Turn the Safety Catches by 90° and push them in to fix the extension position.

Fig. Position of Bed Extension Safety Catch

Mattress Holder

It is possible to adjust Mattress Holder when the bed without mattress is extended.

To adjust the Mattress Holder:

► Remove the Calfrest cover from the mattress support platform.
► Insert the catches on both sides of the Mattress Holder to the selected positions.
► Put the Calfrest cover back to its place on the mattress support platform.
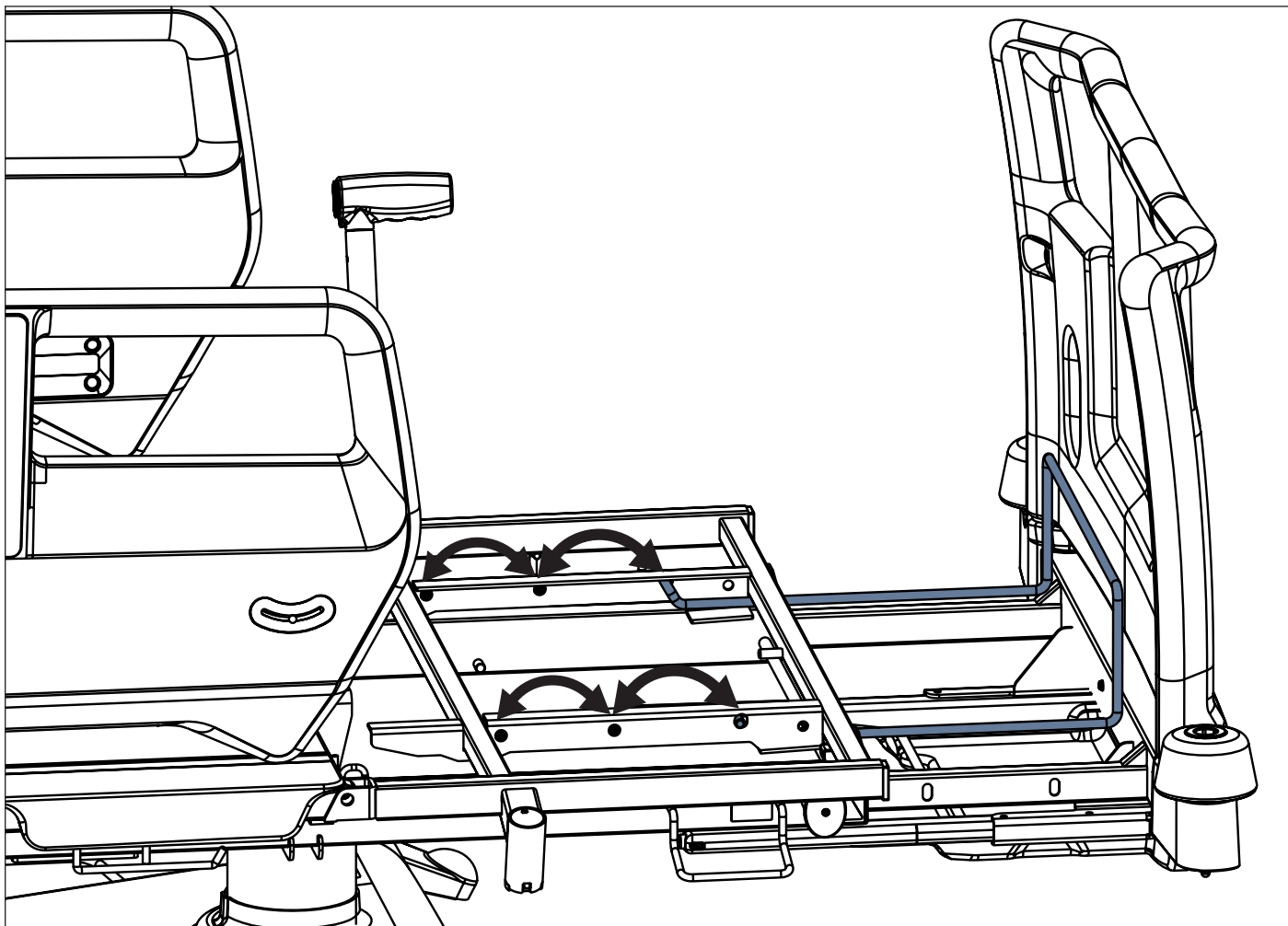
Fig. Adjustment of the Mattress Holder
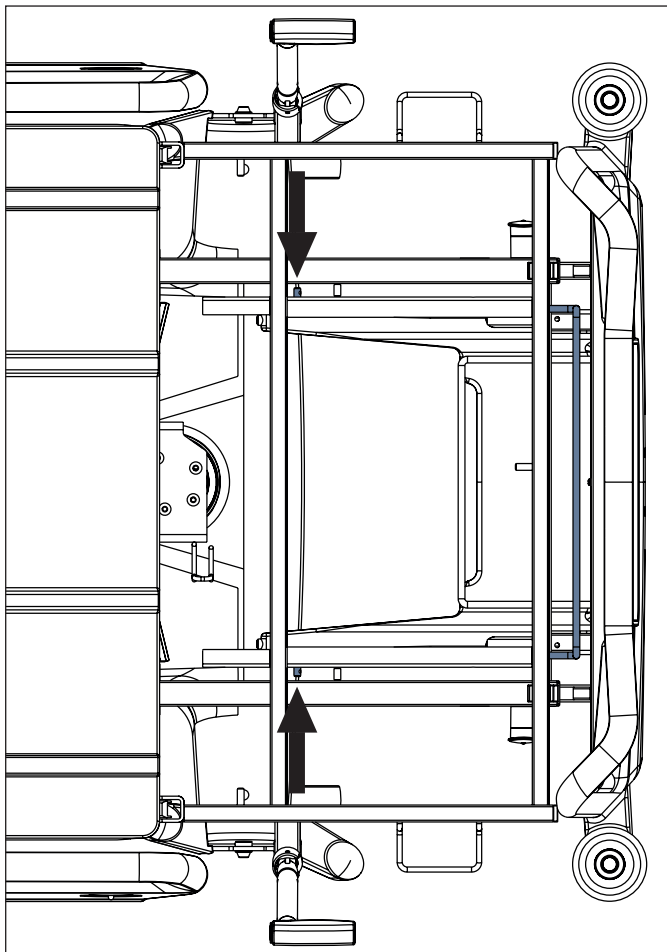
Fig. Basic position of the Mattress Holder
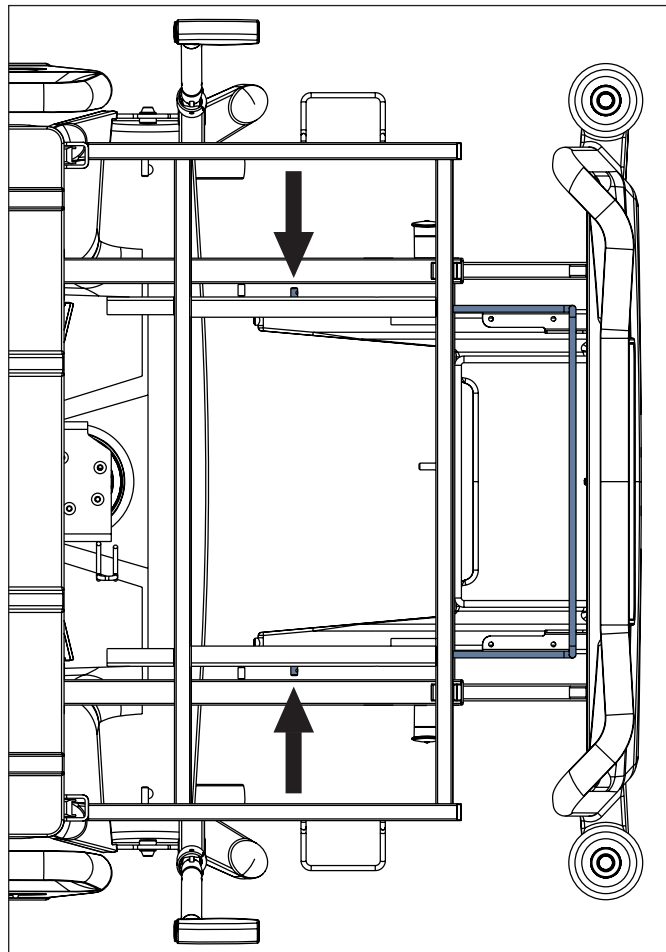
Fig. First extension of the Mattress Holder
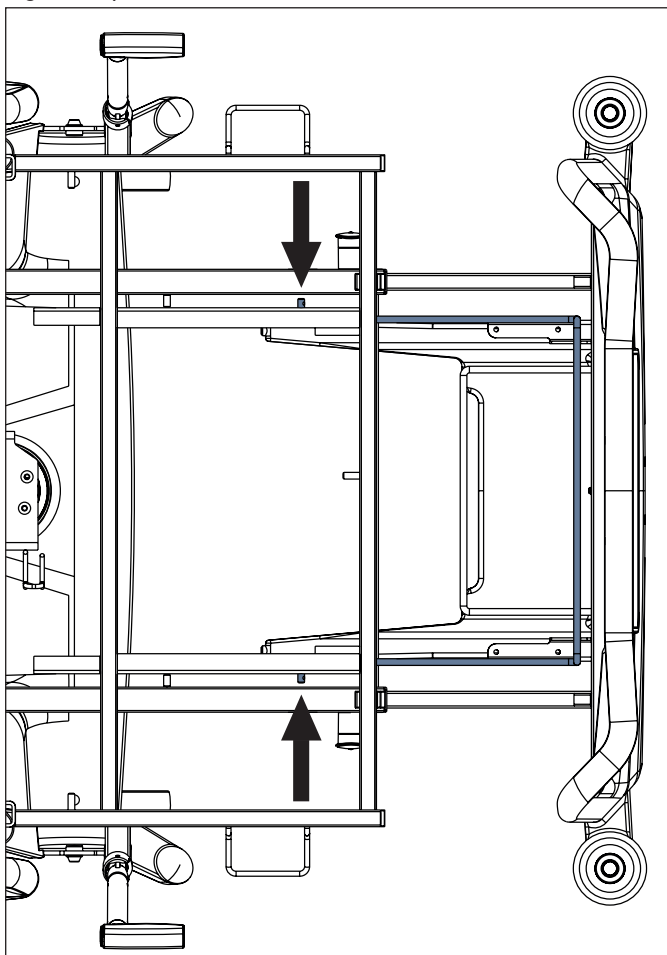
Fig. Second extension of the Mattress Holder

11.5.11 Cardiac Chair Position
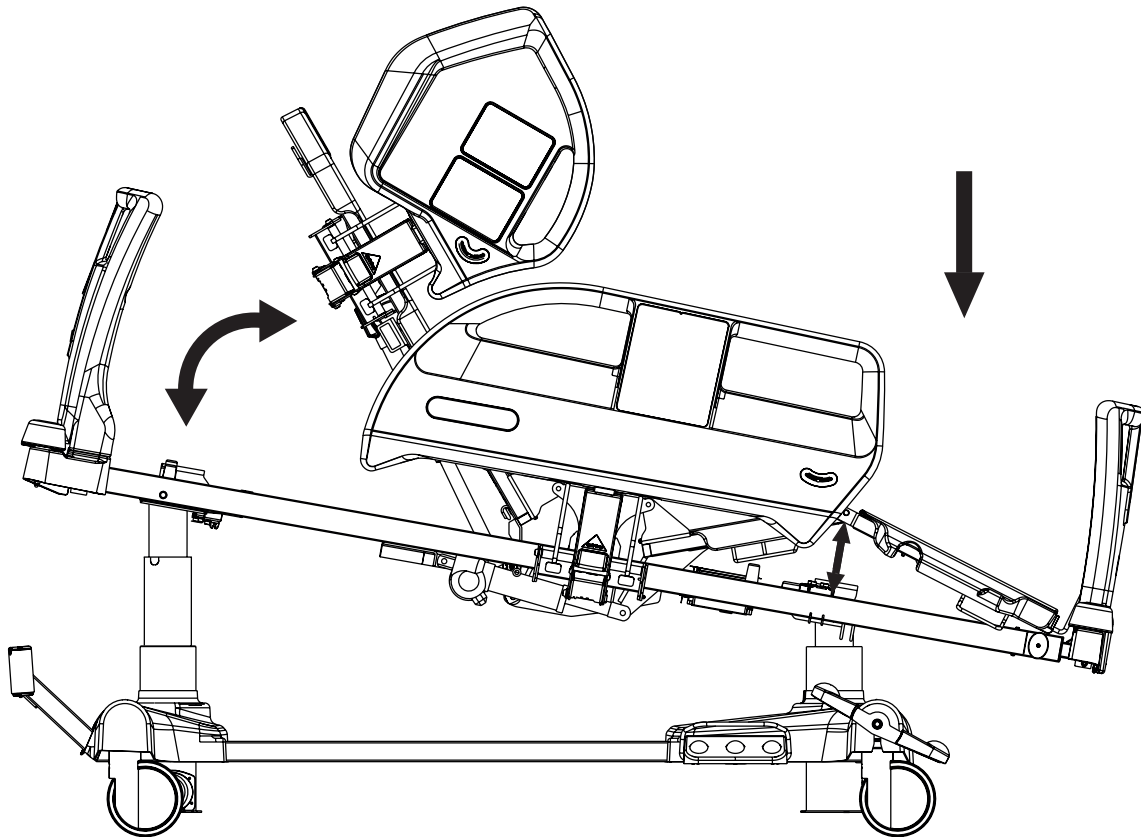
To position Cardiac Chair Position use:

► Nurse Control Panel
► Attendant Control Panel

Fig. Cardiac Chair Position Button (Nurse Control Panel)

Nurse Control Panel:

► Press button (⏻) .

► Press Cardiac Chair Position Button until intended position is reached.

Fig. Cardiac Chair Position Button (Attendant Control Panel)

Attendant Control Panel:

► Press button (⏻) .

► Press Cardiac Chair Position Button until intended position is reached.

11.5.12 Mobilisation Position
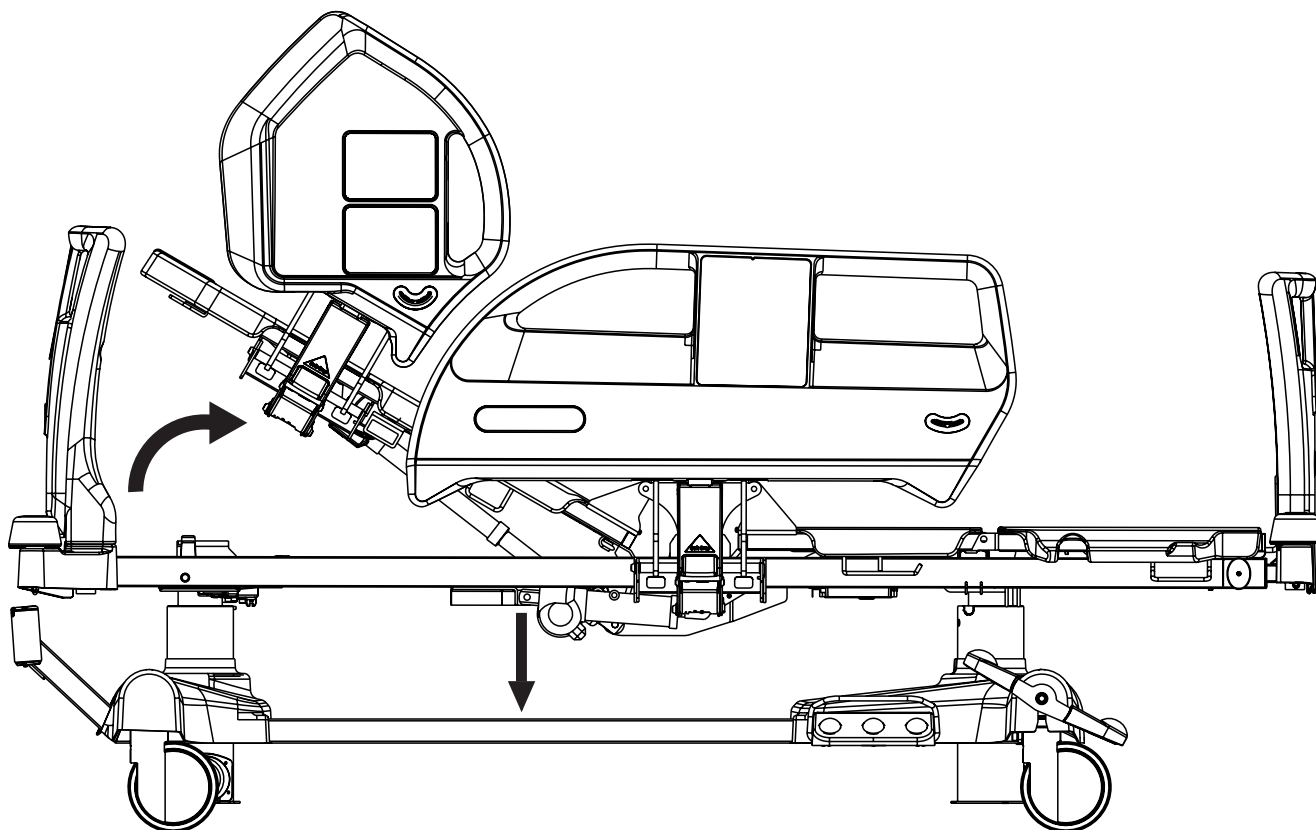
To position Mobilisation Position use:

► Nurse Control Panel

In Mobilisation Position bed is descending to the lowest Bed Height and Backrest reaches the maximum angle.

Fig. Mobilisation Position Button (Nurse Control Panel)

Nurse Control Panel:

► Press button ⏻ .

► Press Mobilisation Position Button until intended position is reached.

11.5.13 Ergoframe

Ergoframe® is the kinematic system of Backrest and Thighrest Adjustment resulting in extension of the Mattress support platform in the seat section.

Ergoframe® minimizes the pressure on patient´s abdomen and pelvic area and frictional and shearing forces on the patient's back and legs, thereby significantly reducing the risk of pressure ulcers.

Ergoframe maintains a stable ergonomic position of the body and spine of the patient, thus limiting unwanted movement of the patient by moving down or up in beds. Unified movement eliminates the patient's shift over the mattress and thus maintains a uniform position of the patient's body that is not bound to the position of the bed parts.

12 Scales Control (only version with scales)

Use iBoard Basic to control the scales.

iBoard Basic
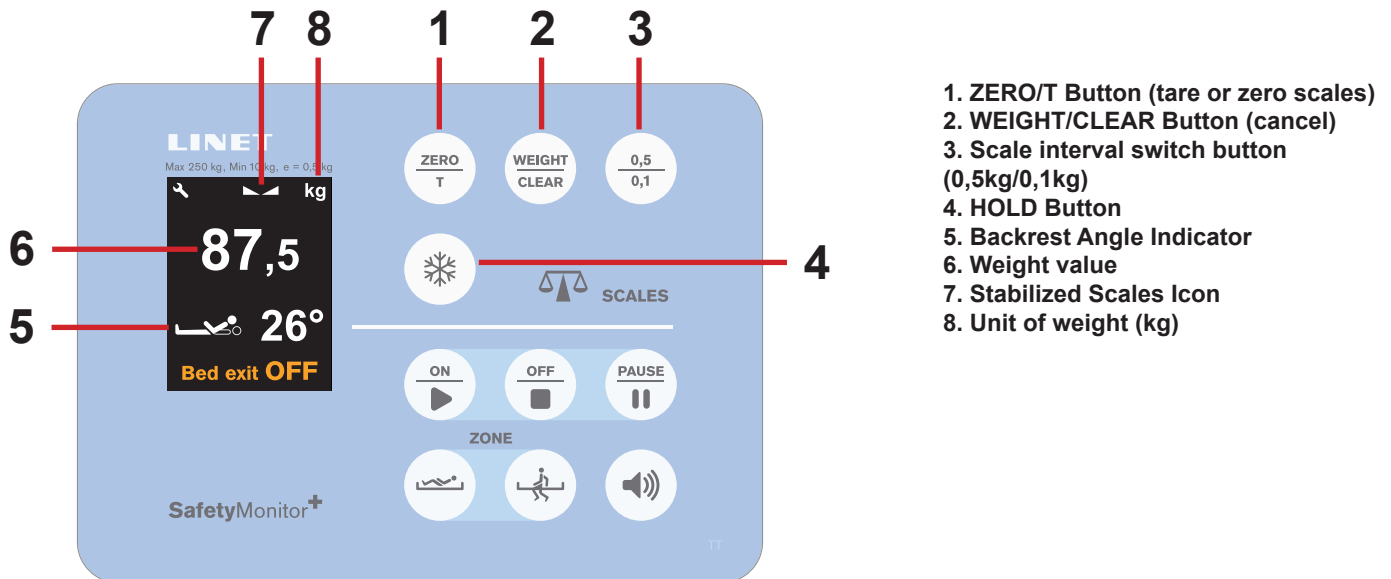
Fig. Scales Section (iBoard Basic) - display and keyboard

1. ZERO/T Button (tare or zero scales)
2. WEIGHT/CLEAR Button (cancel)
3. Scale interval switch button (0,5kg/0,1kg)
4. HOLD Button
5. Backrest Angle Indicator
6. Weight value
7. Stabilized Scales Icon
8. Unit of weight (kg)

12.1 Preparation

► Install mattress and accessories to prepare bed before patient admission and using the scales.

> **⚠ CAUTION!**
> **Incorrect use of scales due to incomplete preparation!**
> ► Before each patient admission tare the scales.

12.2 Taring

Taring can be done in a range of 5kg to 249.5kg. Taring is used to set "0" on the display before placing the patient on the bed. Taring must be done with an unloaded bed with mattress, bed sheets, pillows and necessary accessories, without the patient. It is recommended to position Mattress support platform about 20 cm above the lowest horizontal position.

To tare weight:

► Ensure that nothing and nobody touches the bed except you.

► Press and hold button [ZERO/T] until value (**6**) starts to flash. Release button [ZERO/T].

► Press button [ZERO/T] again to confirm taring. "0" is shown on the display.

Place the patient on the bed.

To cancel taring:

► Press button [WEIGHT/CLEAR] while taring.

12.3 Displaying

Verification Scale Interval is 0.5 kg.

► Press button [0,5/0,1] to display value with actual scale interval 0,1 kg for 5s.

During this mode unit of weight (**kg**) and decimal point are flashing on the display.

Field **6** shows normally actual weight value if other functions are not activated.

NOTE Weight value automatically disappears after 1 minute. If it is needed, press button [WEIGHT/CLEAR] to display it again.

12.4 Hold Mode

Hold Mode can be used only when scales are stabilized.
It allows adding or removing bed accessories and other items without changing the weight value.

To activate Hold Mode:
► Wait until the scales are stabilized. The icon [icon] or [icon] will be illuminated when the scales are stabilized.

► Press button [icon] until snowflake icon [icon] appears on the display.

► Add or remove required accessories.

To deactivate Hold Mode:
► After adding or removing accessories wait until the scales are stabilized (icon [icon] or [icon] is displayed).

► Press button [icon].

► Display shows the original weight value.

To deactivate Hold Mode without fixing the weight value:

► Press button [WEIGHT CLEAR].

Fig. HOLD Mode (iBoard Basic)

12.5 Bed Overload

If the bed load is over 254.5kg:
► The "**HIGH**" is shown on the display.

NOTE If the bed is overloaded, it is impossible to position or manipulate the bed until overloading is removed.

NOTE Bed overloading always has higher priority than Hold Mode and Taring.

Fig. Bed Overload (iBoard Basic)

12.6 Bed Underload

If the bed is underloaded:
► Display shows the „**LOW**".

12.7 Weighing in tilt

Accuracy is conditioned by the spirit level, which is located on the right head corner of the bed.
If the bubble is in the highlighted circle then weighing is accurate.

Fig. Bed Underload (iBoard Basic)

12.8 Zeroing Scales

Zeroing is only possible in a range of ±5kg from factory zero.
Zeroing is used to reset weight on the display and set up user zero, which sets the maximum weight range of the weighing system.
Zeroing must be done with an empty, unloaded bed, without the mattress and accessories. Zeroing is done after installation, weight verification or servicing.

To zero scales:
► Position the bed about 20 cm above the lowest position and set the mattress support platform to the horizontal position. Ensure that nothing touches the bed except you.

► Press and hold button [ZERO T] until weight value starts to flash.

► Press button [ZERO T] to confirm zeroing.

"0" is shown on the display and an acoustic signal confirms zeroing.

To cancel zeroing:

► Press button [WEIGHT CLEAR] while zeroing.

13 Bed Exit Monitoring (only version with scales)

Use iBoard Basic to control the Bed Exit Monitoring.
If the bed is equipped with SafetyMonitor (accessory), Bed Exit Monitoring function is included between the functions of the Safety-Monitor.

iBoard Basic

1. ON Button
2. Inner Zone Button
3. Outer Zone Button
4. OFF Button
5. VOLUME Button (3 levels)
6. PAUSE Button
7. Volume Icon (3 levels)
8. Bed Exit Monitoring Activated (Outer Zone)
9. ON (Bed Exit Monitoring is activated)
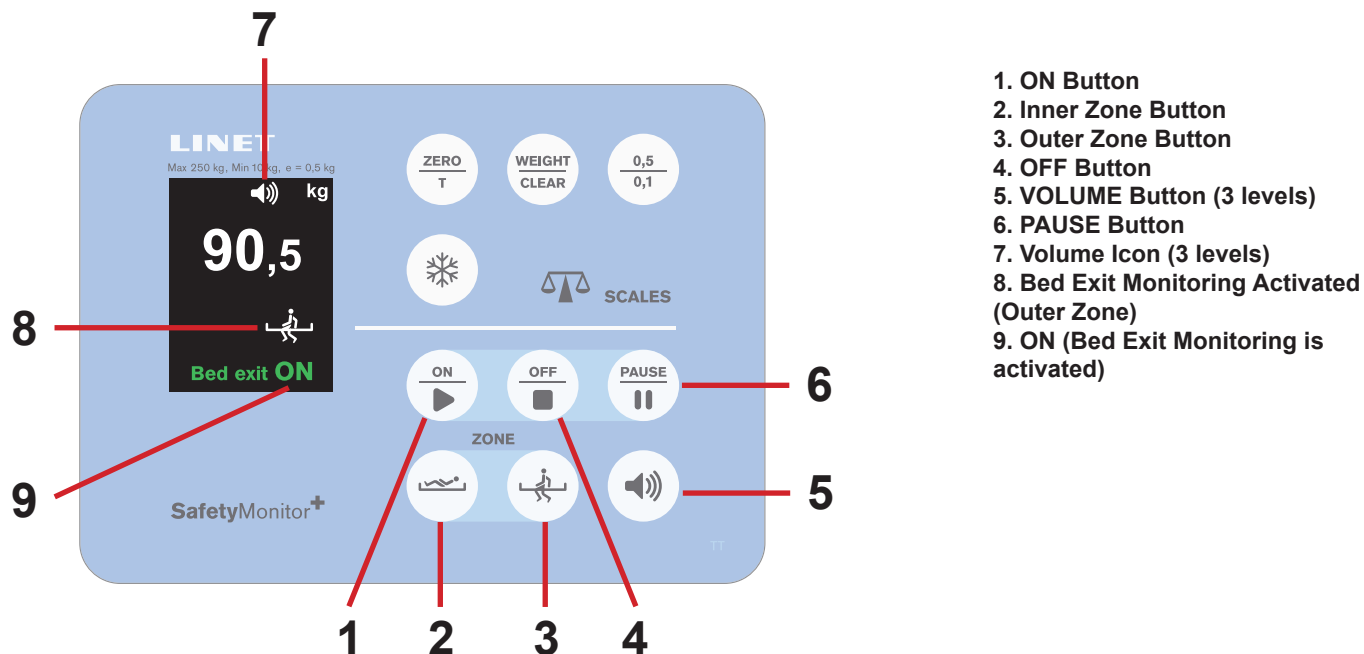
Fig. Bed Exit Monitoring Section (iBoard Basic) - display and keyboard

13.1 Preparation

► Place a patient on the bed with suitable mattress.
► For the correct Bed Exit Monitoring in the Inner Zone patient´s position in the middle of the bed is needed.

13.2 Activation of Bed Exit Monitoring

Bed Exit Monitoring is **OFF** and icon **OFF** is displayed by default.

To activate Bed Exit Monitoring:

► Press button [ON ▶].

Icon **ON** appears on the display.

When Bed Exit Monitoring is activated Inner Zone is set by default. Icon ⌣ therefore appears on the display.

NOTE Minimum patient weight for Bed Exit Monitoring is 35 kg.

13.3 Monitored Zone

To switch to the Outer Zone:

► Press button [⟋].

Icon ⟋ appears on the display.

To set the Inner Zone again:

► Press button [⌣].

Icon ⌣ appears on the display.

13.4 BED EXIT ALARM

Alarm is triggered when patient has left selected monitored zone or PAUSE period elapsed and patient is not in ordered position.

To stop Alarm:

►   Press button [OFF ■] .

Bed Exit Monitoring is deactivated and icon **OFF** appears on the display.
The audible alarm is stopped.

To pause Alarm:

►   Press button [PAUSE ❙❙] or button [🔊] .

„**Pause 15 min.**" appears on the display and 15 minute countdown timer runs.
The audible alarm is paused.

Fig. Visual signalisation of Bed Exit Alarm (iBoard Basic)

13.4.1 Alarm Volume

Maximum Alarm Volume Level is set by default.
It is possible to set Alarm Volume before and during triggered alarm.

To lower Alarm Volume Level:

►   Press button [🔊] .

Icon [🔊] with lower Alarm Volume Level appears on the display. Volume is lowered.

To return to Maximum Alarm Volume Level:

►   Press button [🔊] after Minimum Alarm Volume Level has been reached.

Icon [🔊] with the 3 levels appears on the display.

Fig. Volume Icon

1. Minimum Volume
2. Moderate Volume
3. Maximum Volume

13.5 PAUSE

During PAUSE Mode Bed Exit Monitoring is temporarily interrupted and Alarms are not activated.
When Outer Zone monitoring is activated, PAUSE period is terminated
when patient returns to the bed within 15 minutes of the PAUSE period.

To PAUSE Bed Exit Monitoring:

►   Press button [PAUSE ❙❙] or button [🔊] .

Icon **10** appears on the display with 15 minute countdown timer.
After PAUSE period elapsed and patient is in ordered position Bed Exit Monitoring is reactivated.

To extend the PAUSE period:

►   Press button [PAUSE ❙❙] again to extend the countdown to 15 minutes period again.

To terminate the PAUSE period:

►   Press button [ON ▶] .

Fig. PAUSE Countdown (with remaining minutes)

13.6 Deactivation of Bed Exit Monitoring

To deactivate Bed Exit Monitoring:

►   Press button [OFF ■] .

Icon **OFF** appears on the display.
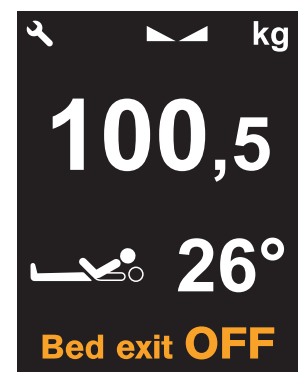
Fig. Bed Exit OFF (iBoard Basic)

14 Equipment

14.1 Accessory Rail with plastic hooks (optional)

Accessory Rail with 2 plastic hooks is intended for hanging accessories.
It is located on the sides of bed.
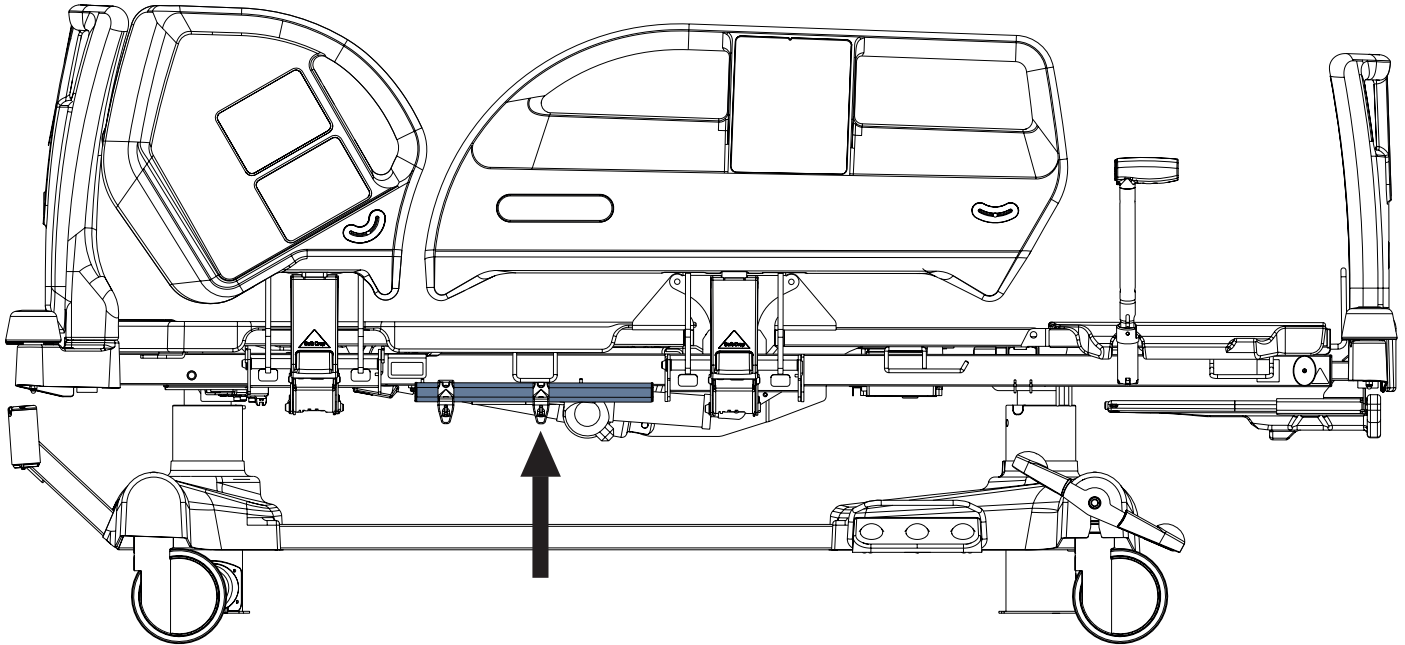
Fig. Accessory Rail with plastic hooks (on side)

14.2 Linen Shelf (standard)

Linen Shelf is intended for storing the things corresponding to its dimensions (e.g. linens or sheets).
The Attendant Control Panel can be stored in the Linen Shelf.
The Linen Shelf is located at foot end under the Foot Board.
Safe Working Load of the Linen Shelf is 15 kg.
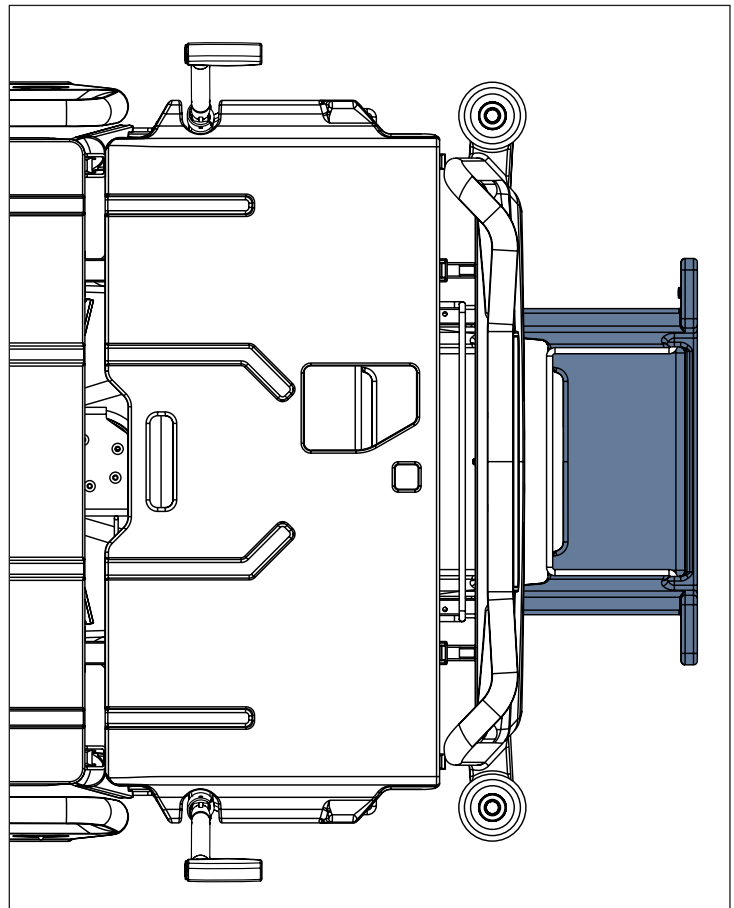
Fig. Linen Shelf (at foot end)

14.3 Mobi-Lift® (optional)

⚠️ **WARNING!**
Risk of injury due to slipping or falling when standing up!
► Ensure that the Mobi-Lift handles are completely inserted in the sleeve fittings.
► Ensure that no bed linen is caught between
the sleeve fitting and the support handle.

Mobi-Lift® is optional. It serves as a support handle to enhance the patient's safety when getting up. Mobi-Lift® is a support handle with a built-in Height Adjustment button. It allows the patient to raise and lower the Mattress support platform.

Using the Mobi-Lift handles

To adjust the Mobi-Lift handle:
► Lift the handle up towards the bed.
► Push the handle into the sleeve fitting as far as it will go.

To adjust the height of the mattress support platform:

► Press button ⊙ on any control element.

► Press the button to adjust the bed height.
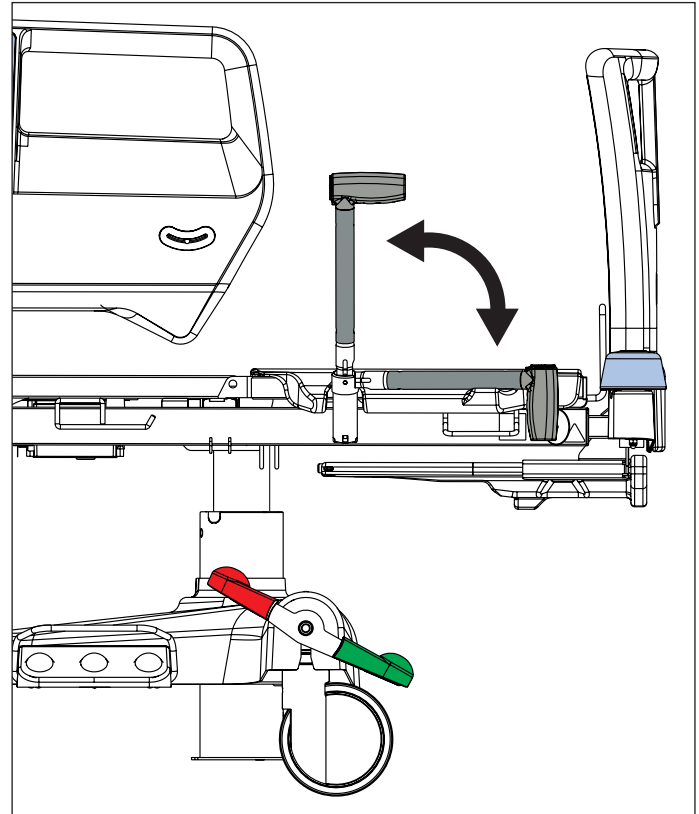
Fig. Mobi-Lift Handle

14.4 Brake Signal (optional)

If bed is equipped with Brake Signal and this bed is connected to the mains power, the Brake Signal sounds when the bed is not braked.

14.5 i-Brake® (optional)

It is possible to equip the bed with an automatic castor brake. The automatic castor brake prevents injuries of patients and staff due to an unbraked bed.
The brakes are activated automatically 60 seconds after the bed is plugged in, and 60 seconds after they have been released if the bed is not being moved.
It is possible to activate the brakes manually as well.

14.6 Retractable Fifth Castor (optional)

It is possible to equip the bed with Fifth Castor in the centre of undercarriage. The Fifth Castor helps to steer and manoeuvre the bed in long corridors and small rooms.
Retracted Fifth Castor does not obstruct access to any devices under the undercarriage.

14.7 X-Ray Examination (optional)

⚠️ **WARNING!**
Respect maximum dimensions of x-ray cassettes!
► Maximum dimensions of any x-ray cassette for X-Ray Cassette Holder are 46,5 cm x 39 cm x 1,8 cm!

⚠️ **WARNING!**
Prevent x-ray cassettes from being damaged!
► Do not leave any x-ray cassette in the X-Ray Cassette Holder if X-Ray Examination should not be performed!

⚠️ **CAUTION!**
Prevent x-ray images from being devalued!
► Take x-ray images when the bed is braked and no part of the bed is forced to move!
► Follow the instructions in this user manual how to use the X-Ray Cassette Holder!

The Backrest of the bed consists optionally of HPL and is x-ray translucent. The bed is equipped with an x-ray cassette holder inseted under the Backrest left side. This design allows taking x-ray images of the patient's lungs without moving the patient manually.

Necessary Steps before the Examination

► Make sure that patient is in centre of bed.
► Make sure that backrest is in lowest position and siderails are raised up.
► Pull out x-ray cassette holder.
► Insert x-ray cassette in the horozontal position.
► Insert back x-ray cassette holder with x-ray cassette so that the cassette centre indicator is exactly under the edge of the mattress support platform.
► Correct position of x-ray cassette holder using the tooth mechanism so that the upper edge of the x-ray cassette is exactly under the patient's shoulder line. For the correct orientation use the scale on the label. Indicate the position of the patient´s shoulder line using the numbers on the scale. Move the x-ray cassette holder in such position so that the centre of the handrail is on the respective scale number.
► Adjust parameters of the x-ray device and do the image.
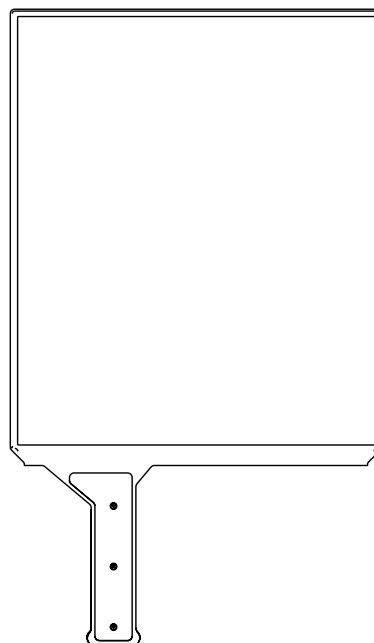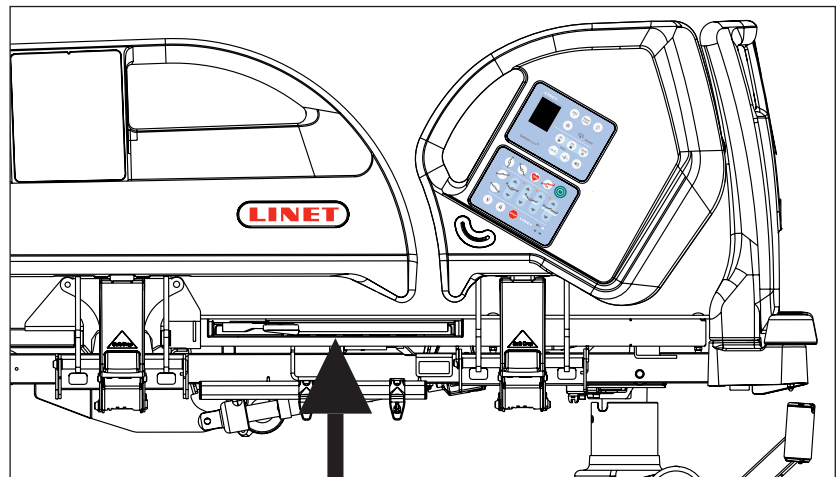
NOTE This procedure is above all suitable for patients who cannot be moved due to critical conditions (e. g. internal bleeding) or unstable patients.

Fig. X-Ray Cassette Holder

14.8 Undercarriage Cover

⚠ **CAUTION!**
Risk of material damage due to objects on the undercarriage cover!
► Do not place objects on the undercarriage cover!
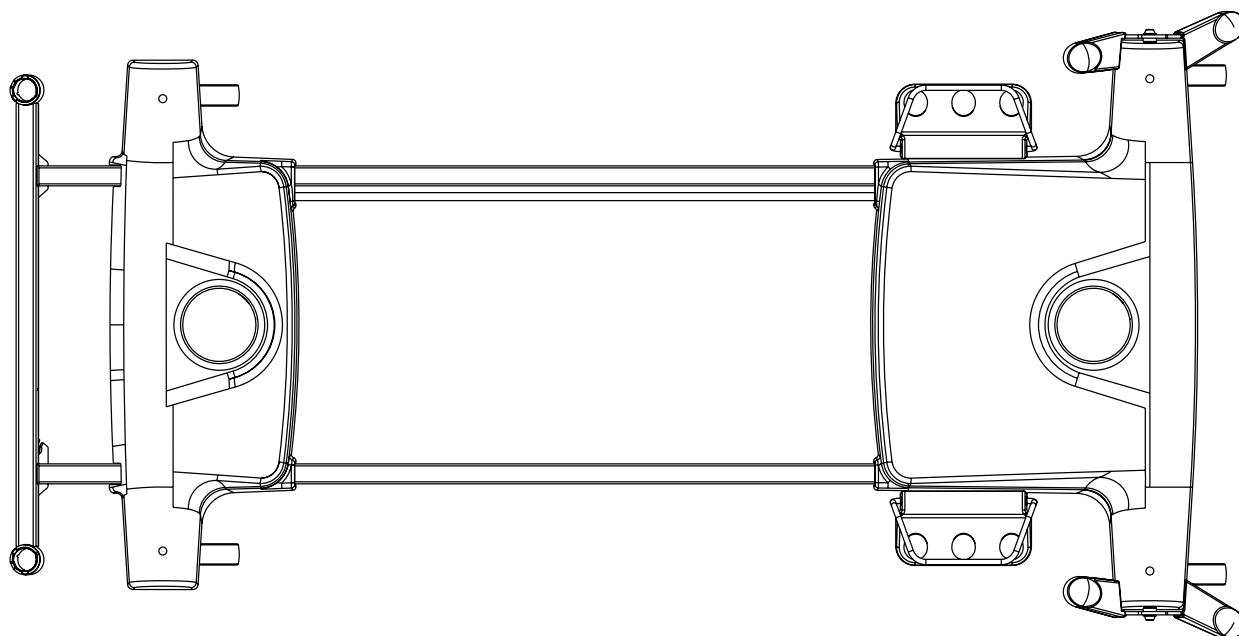
Fig. 2-part undercarriage cover (standard)
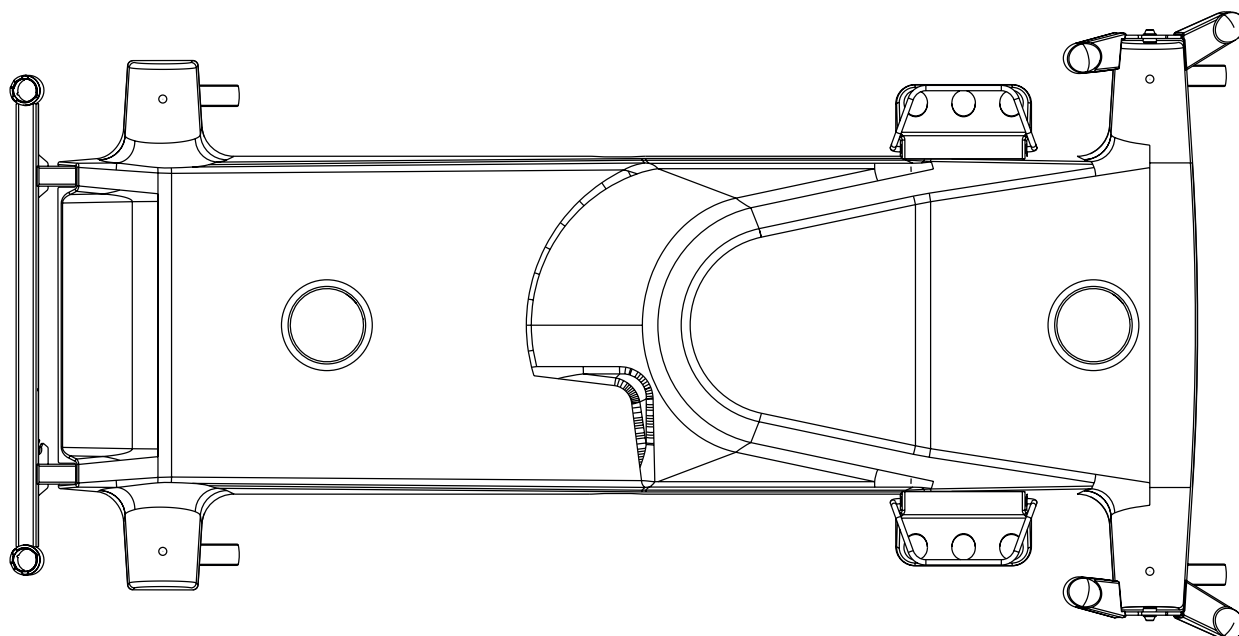
Fig. 1-part undercarriage cover (optional)

15 Mattress

Eleganza 4 bed is designed for mattresses from LINET portfolio.

⚠️ **CAUTION!**
Incompatibility with bed due to incorrect mattress dimensions!
► Check maximum approved mattress dimensions (chapter Technical Specification of Eleganza 4).

The manufacturer recommends the use of the following mattresses on the Eleganza 4 bed:

PASSIVE MATTRESSES

- CliniCare 10
- CliniCare 20
- CliniCare 30

ACTIVE MATTRESSES

- CliniCare 100 HF
- Air2Care
- Virtuoso

15.1 Installation of Passive Mattress

The passive mattresses intended for Eleganza 4 bed are equipped with straps with buckles (**1**) to fix mattress on the Mattress Support Platform.
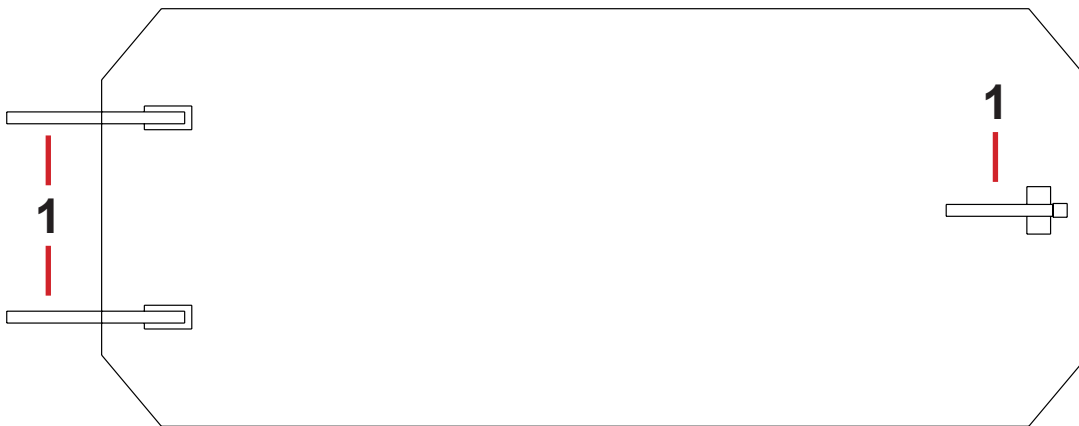
Fig. Bottom of Passive Mattress

15.1.1 Straps with side release buckles

To fix mattress on the Mattress Support Platform:

► Run three straps through the three corresponding holes in the covers of Mattress Support Platform.
► Run these three straps under the bars of the Mattress Support Platform.
► Lock the three side release buckles by connecting their male and female parts together.

To remove mattress from the Mattress Support Platform:

► Release the three buckles by pressing them from both sides and by disconnecting their male and female parts.
► Pull these three straps out of the Mattress Support Platform.
► Remove mattress from the Mattress Support Platform.
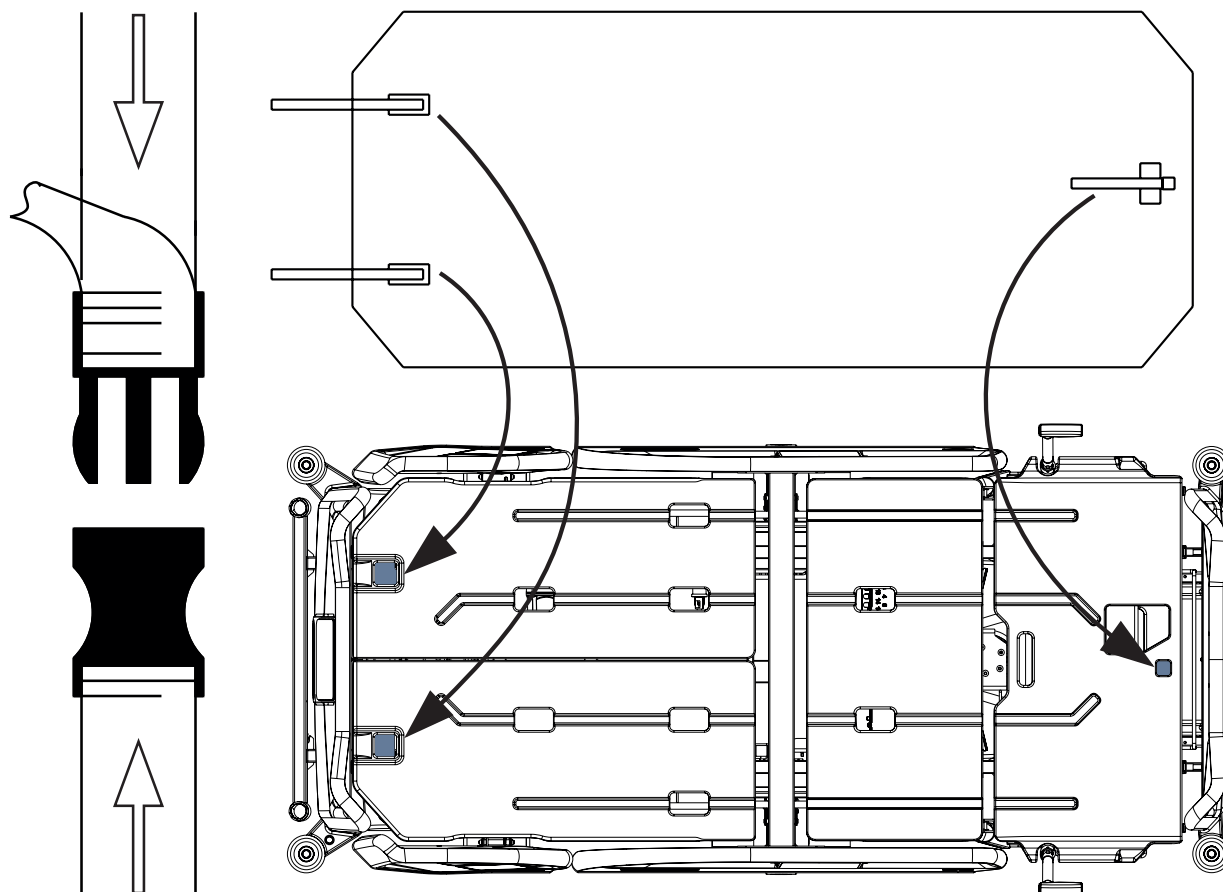
Fig. Fixation of the passive mattress with straps on the mattress support platform of Eleganza 4 bed

15.2 Installation of Active Mattress

WARNING!
Follow instructions for use of a compatible active mattress carefully!

CAUTION!
Risk of material damage due to an incorrect fixation of compatible active mattress on the mattress support platform!
► Adjust the bed to maximum Cardiac Chair Position before fixing all the straps of the inflated mattress to the mattress support platform!

Installation instructions:
► Remove any existing mattress.
► Observe mattress dimensions and its orientation before putting it on the Mattress support platform.
► Place SCU on the foot board of the bed or on the floor.

15.2.1 Straps with side release buckles

To fix mattress on the Mattress Support Platform:

► Inflate the mattress intended to be fixed on the mattress support platform.
► Adjust the bed to the maximum Cardiac Chair Position.
► Run four straps through the four corresponding holes in the covers of Mattress Support Platform and two straps through the accessory holders under the calfrest cover.
► Lock all the side release buckles by connecting their male and female parts together.

To remove mattress from the Mattress Support Platform:

► Release all the buckles by pressing them from both sides and by disconnecting their male and female parts.
► Pull all the straps out of the Mattress Support Platform.
► Remove mattress from the Mattress Support Platform.
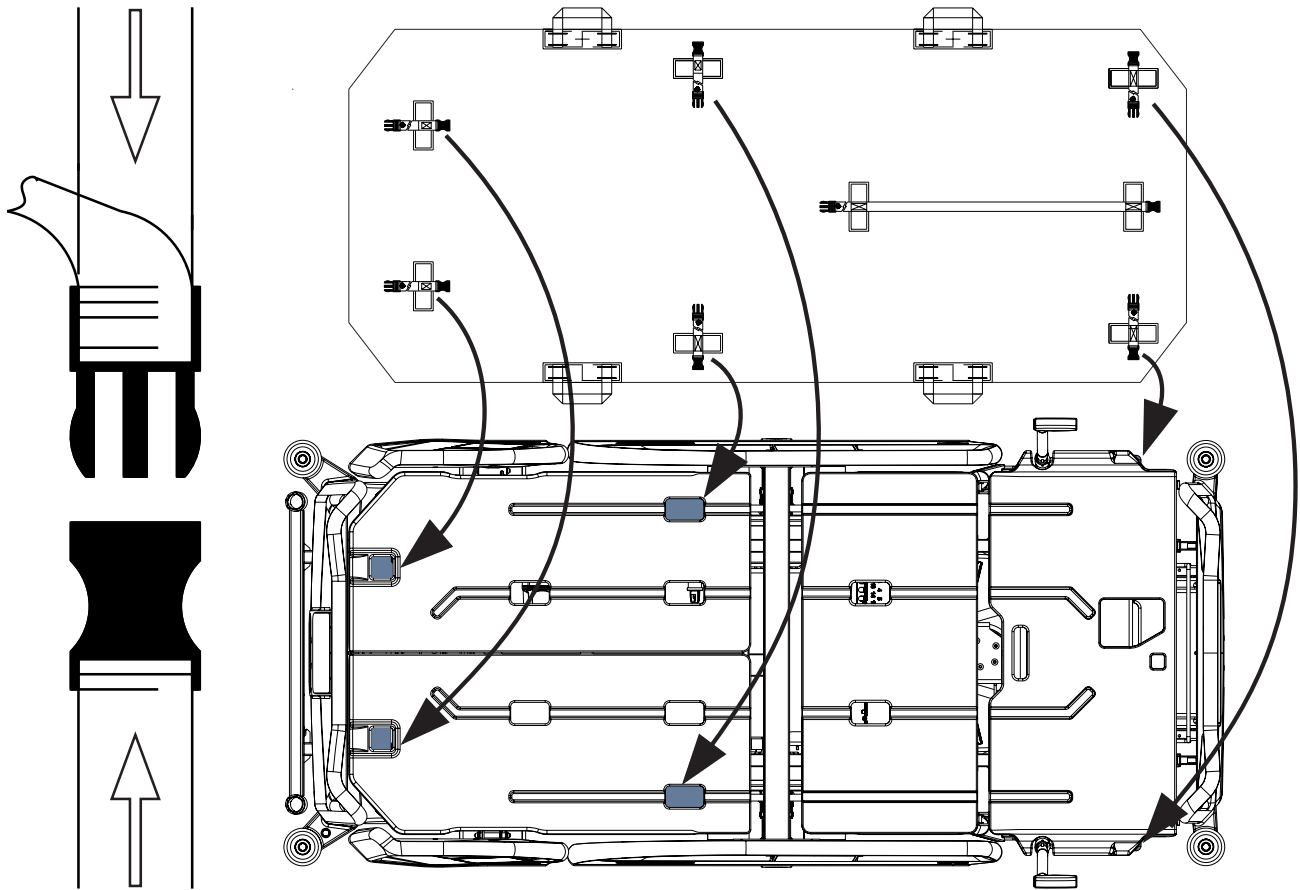
Fig. Fixation of active mattress with straps on the mattress support platform of Eleganza 4 bed

16 Accessories

⚠ **WARNING!**
Risk of injury due to incompatible accessories!
► Use exclusively original accessories from the manufacturer.
The manufacturer is not responsible for the use of unapproved accessories.

⚠ **WARNING!**
Risk of injury due to damaged accessories!
► Use exclusively accessories in perfect condition.

Accessory	head end	foot end	on sides
Lifting pole	✔		
with Triangular holder	✔		
with Infusion holder	✔		
Infusion Stand	✔		
with Fixation holder	✔		
with Infusion bottle basket	✔		
Writing shelf		✔	
Monitor shelf		✔	
Utility shelf		✔	
Crutches holder	✔	✔	
Name holder	✔	✔	
Horizontal oxygen bottle holder	✔		
Vertical oxygen bottle holder	✔		
with Adaptor	✔		
Siderail accessory holder			✔
Accessory rail			✔
Ventilation circuit holder	✔		
Urine sack holder			✔
Positioning cushion	✔	✔	✔

1. Lifting pole
2. Infusion stand
3. Oxygen bottle holder
(vertical version)
4. Ventilation circuit holder
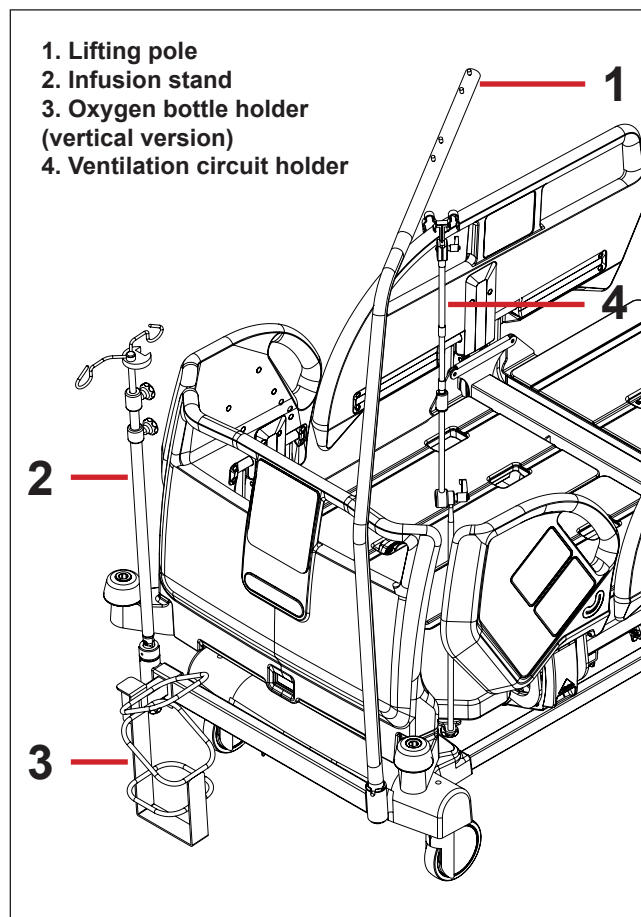
Fig. Accessories

16.1 Lifting Pole

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

To install the lifting pole:
► Insert lifting pole in corresponding sleeve fitting on accessory adapter at head end.
► Ensure that safety pin locks into place.
► Attach a plastic grab handle with an adjustable strap to the lifting pole.

NOTE The date of manufacture is marked on the grab handle. LINET® recommends replacing the plastic grab handle every four years.
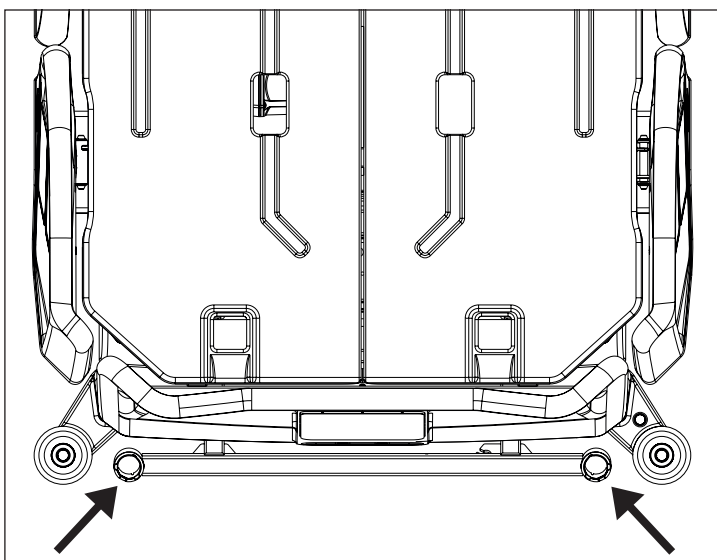
Fig. Places for lifting pole (sleeve fittings on accessory adapter)
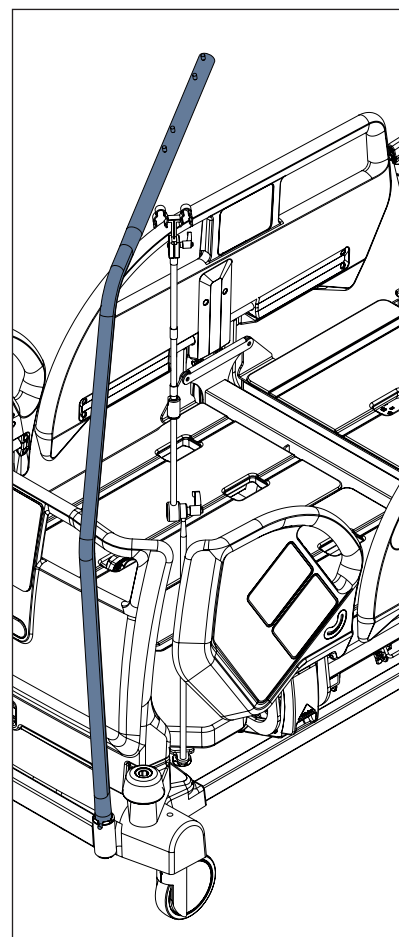
Fig. Lifting pole

16.2 Infusion Stand

⚠️ **WARNING!**
Risk of injury due to use of incorrect accessories or because of incorrect use!
Infusion Stands must only be used for their intended use. Always read the instructions for use!
► Only mount an infusion pump to the lower (wider) telescopic section of an infusion stand above the head/foot board.
► Never mount an infusion pump to the upper (thiner) 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 after installation.
► Do not over tighten the infusion pump clamps during fitment. Over tightening may damage the infusion stand.
► Infusion pump can be only used if the infusion stand is fitted in the accessory holder socket in the head end on the under carriage of the bed.
► Do not use the infusion stand as driving/pushing device during the bed transport.

⚠️ **CAUTION!**
Risk of collision with oxygen bottle holder on the bed end due to incompatibility!
► Use the foldable infusion stand with adapter to avoid the collision.

Infusion stands are intended to provide a suitable support for the attachment of the infusion pumps/syringe pumps and suspension of the infusion bags or bottles.
Infusion stands can be fitted to the head and foot end of the bed by either fitting into the IV/Infusion sockets mounted on the bed or using alternative accessory holder socket in the head end on the undercarriage of the bed.

► Use exclusively infusion stands with hooks for hanging IV bags or baskets for intravenous solutions.
► Ensure the infusion stand individual hook 2kg maximum Safe Working Load is not exceeded.
► Ensure the infusion stand maximum Safe Working Load is not exceeded.
► Follow the actual price list for information about types of infusion stands.
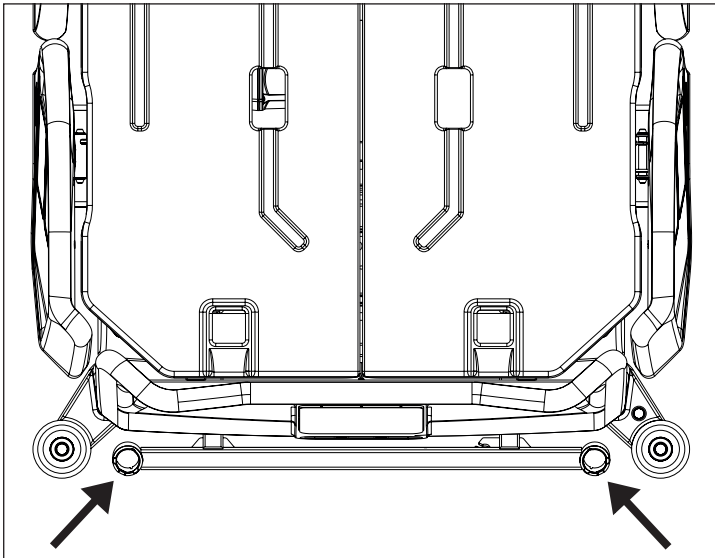
Fig. Places for infusion stand (sleeve fittings on accessory adapter)
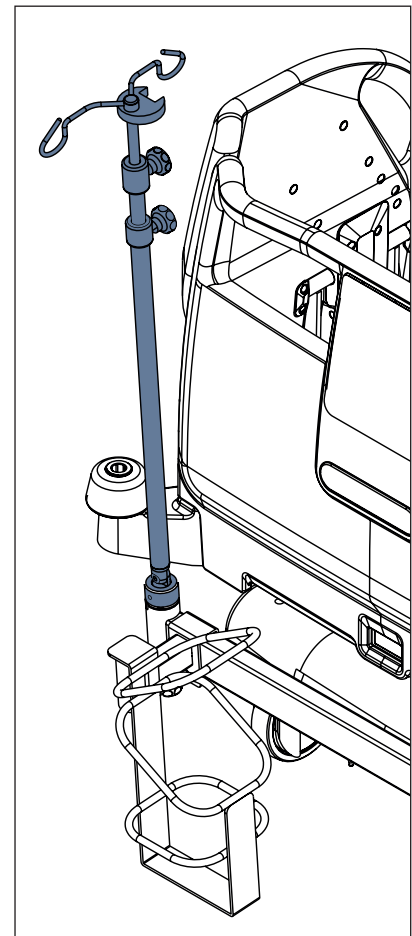
Fig. Infusion stand

16.3 Oxygen Bottle Holder

⚠️ **WARNING!**

Risk of injury with oxygen bottle holder due to incorrect use or due to careless driving!

► Ensure the oxygen bottle holder is correctly fitted in correct position.

► It is necessary to place oxygen bottle holder (with or without oxygen bottle) before transport to secure transport position.

► Be aware of people or objects in close proximity when driving or manipulating the bed equipped with oxygen bottle holder.

► Secure the oxygen bottles against falling or involuntary movement with rubber strap.

► Place the oxygen bottle holder on the bed by instructions in the following text.

► Ensure the oxygen bottle valve will not get damaged by careless or incorrect manipulation or placement.

The oxygen bottle holders are suitable for transporting oxygen bottles with a weight of up to 15 kg and a volume of 5 litres.

Horizontal version (Head End)

► Put oxygen bottle holder on transversal profile behind head end.
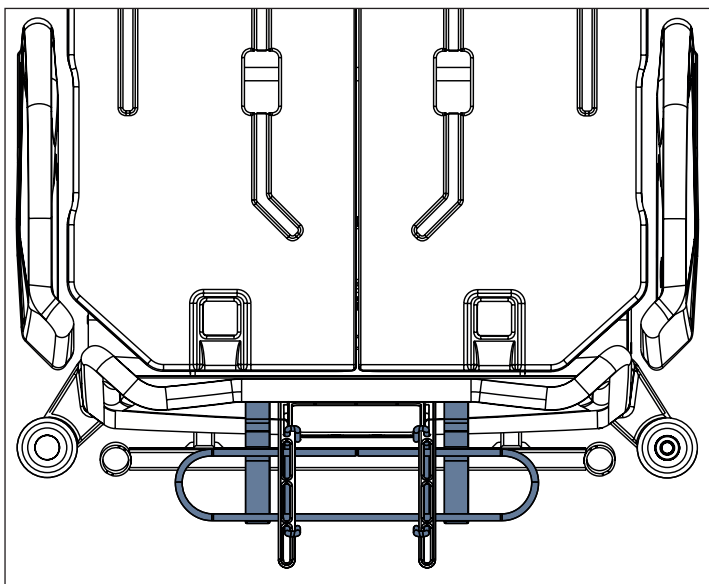
Fig. Oxygen Bottle Holder (on the head end)

Vertical version (with adapter)

On following pictures there are 4 positions of the oxygen bottle holder with adapter.

► Put holder on sleeve fittings in multifunctional accessory adapter on head end.

► Ensure the locking pin of vertical oxygen bottle holder is locked in sleeve fitting.
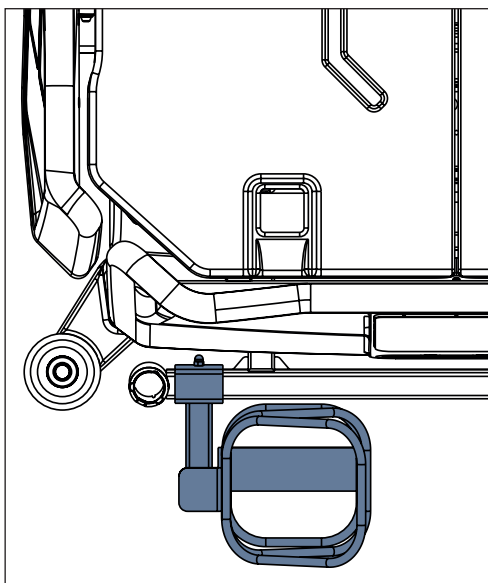
Fig. Oxygen Bottle Holder in the adapter (position 1)
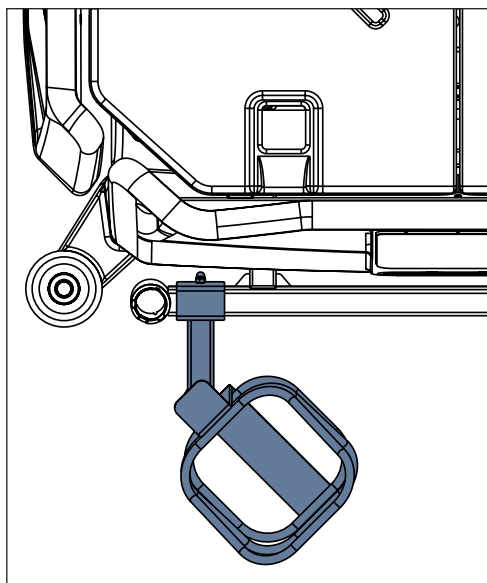
Fig. Oxygen Bottle Holder in the adapter (position 2)
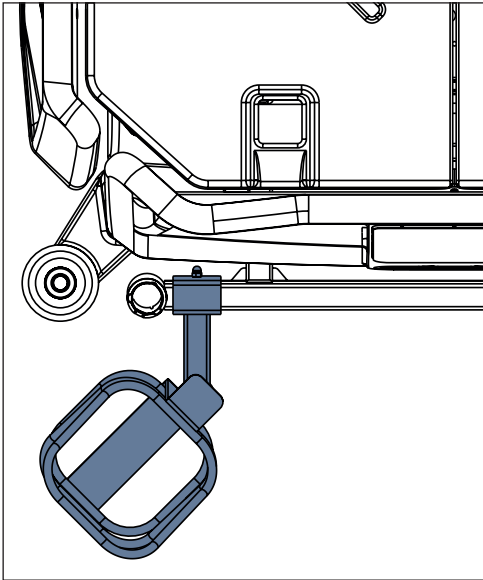
Fig. Oxygen Bottle Holder in the adapter (position 3)
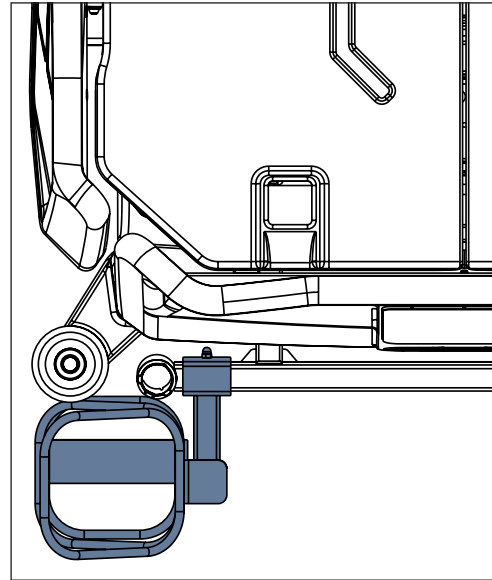
Fig. Oxygen Bottle Holder in the adapter (position 4)

16.4 Ventilation Circuit Holder

The ventilation circuit holder prevents extubation of the patient connected to the ventilator.
►   Always use LINET ® ventilation circuit holder to prevent extubation during any procedures.

Applying ventilation circuit holder:
►   Put ventilation circuit holder in hole on right or left side of the Backrest frame.
►   Fasten ventilation circuit holder with wing screw provided.
►   Put intubation tube through plastic head of ventilation circuit holder.
►   Tilt mattress support platform left and right by 15° to check if intubation tube is fastened securely. The fastening is secure if no parts of the ventilation circuit are disconnected.
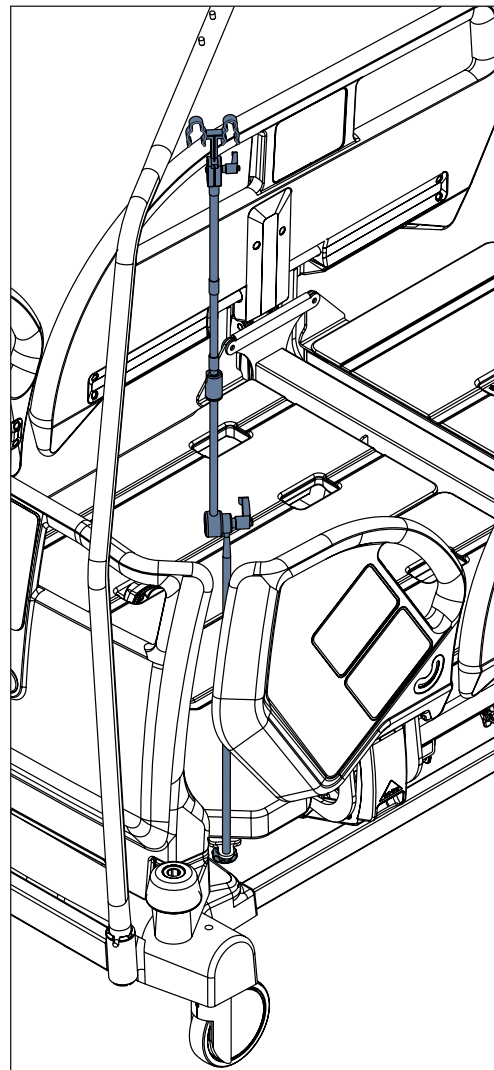
Fig. Ventilation Circuit Holder

16.5 Writing Shelf

The Writing Shelf is intended for writing of nursing staff.
It is placed in the handles of the foot board (as on the picture).
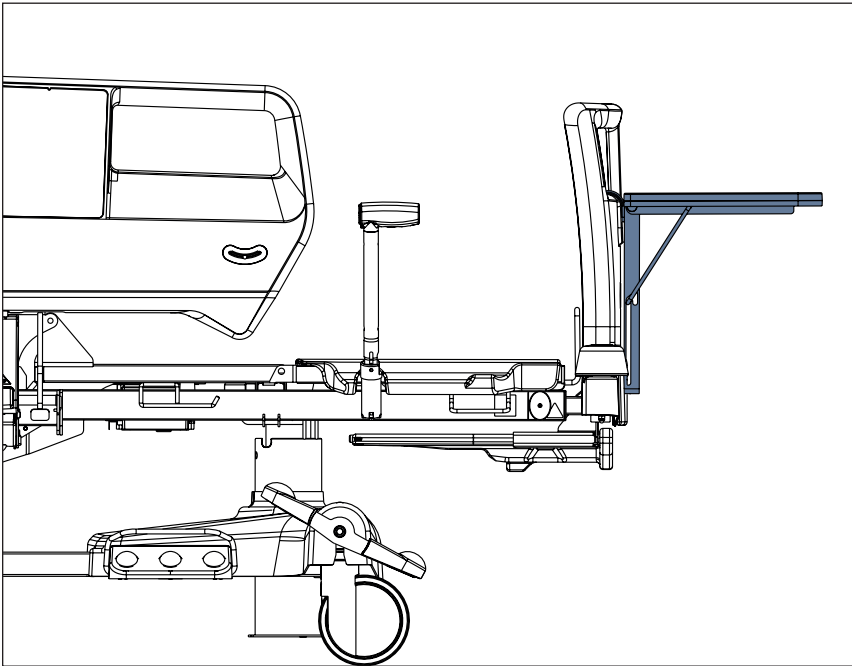
Fig. Writing Shelf

16.6 Monitor Shelf

The Monitor Shelf is suitable for transporting monitors with a weight of up to 15 kg.

Installing the Monitor Shelf:
►   Place Monitor Shelf on the foot board (as on the picture).
►   Fix the monitor with safety belts in order to avoid any damage during transport.
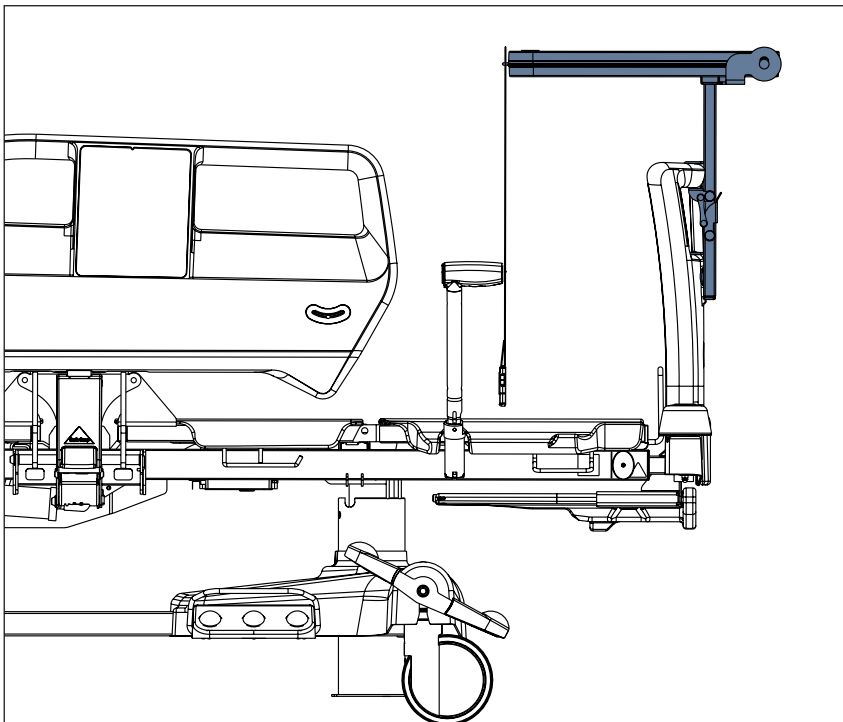
Fig. Monitor Shelf

16.7 USB Connector (optional)

⚠️ **WARNING!**
Risk of injury due to incorrect use!
► Ensure accessory pluged in USB connector is in pristine condition!
User of the bed is responsible for the fact that this requirement is met.

⚠️ **CAUTION!**
Risk of material damage due to incorrect use!
► Do not plug heating element into USB connector!
User of the bed is responsible for the fact that this requirement is met.

⚠️ **CAUTION!**
Risk of material damage due to incorrect cleaning!
► No liquid should get to the USB port!

USB Connector situated on the both sides of Backrest is intended for charging mobile phones and tablets.

NOTE Maximum current for this device is 2 A.
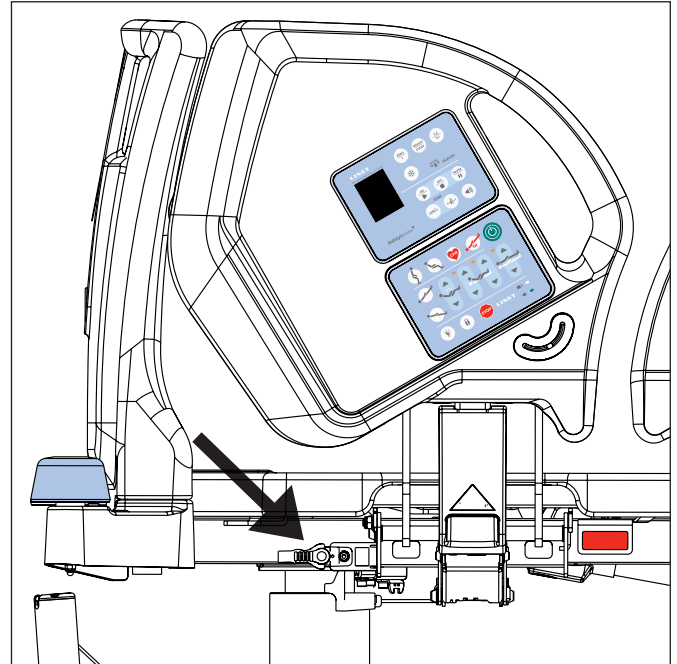
Fig. USB Connector on the side of Backrest

16.8 Urine Sack Holder

Urine Sack Holders are available on both sides of the bed at Backrest area.
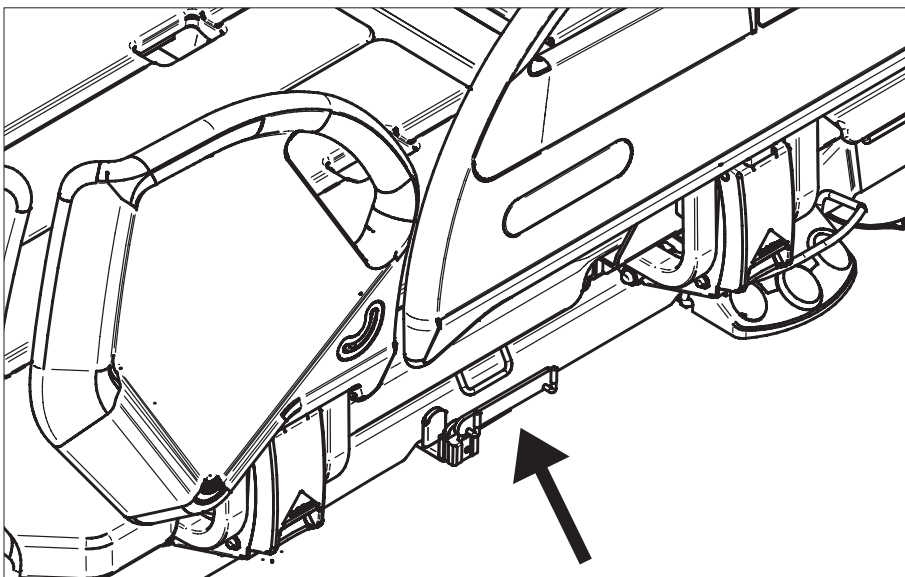
Fig. Urine sack holder

16.9 SafetyMonitor

⚠️ **WARNING!**
Read the user manual for SafetyMonitor carefully before use of the Eleganza 4 bed with SafetyMonitor!

Intended Use

SafetyMonitor is a system that monitors statuses of Eleganza 4 bed: brake status (braked castors/unbraked castors), siderail status (siderails up/siderail down), bed height (bed in the lowest position/bed not in the lowest position), backrest angle (backrest in more than 30°/backrest in less than 30°), patient presence (patient on the bed/patient not on the bed) and location of the bed (where the bed is situated). Secure statuses are: braked bed, siderails up, bed in the lowest position, backrest in more than 30° and patient on the bed. The system triggers alerts (notice signals for insecure statuses) and alarms (alarm signals for the absence of a patient on the bed). Alerts and alarms are automatically passed to the hospital information system and displayed on a screen in the nurse station and on a smartphone/tablet. Information is transmitted via LAN or Wi-Fi connection. Alarm (Bed Exit Alarm) sounds just from the bed. In this way, medical staff can be informed in a timely manner of any safety risk while saving administrative time.

System components

SafetyMonitor system consists of installed server, secure intranet infrastructure (Wi-Fi or LAN), screen in the nurse station (PC or tablet or smartphone), Tag on the wall, parked Eleganza 4 EMR ready bed with iBoard Basic, Integration Module, Localisation Receiver, LAN connector and LAN cable.

iBoard Basic (SafetyMonitor Section)
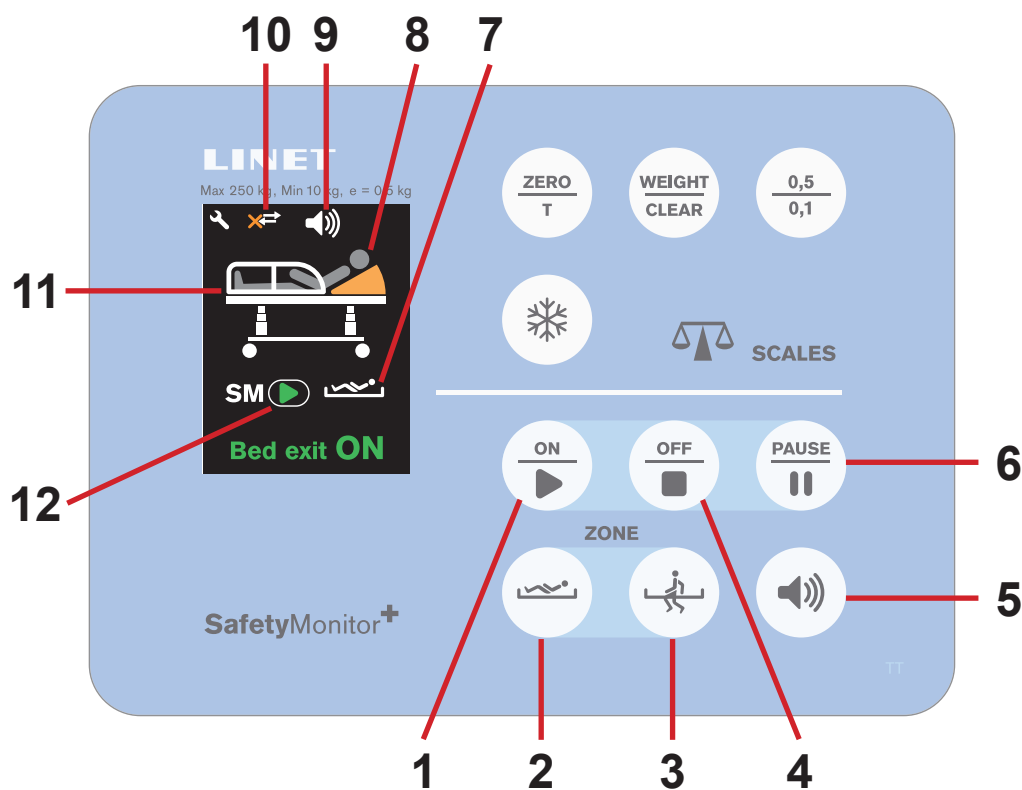
Fig. SafetyMonitor Section (iBoard Basic) - Display and Keyboard

1. ON button (RUN)
2. Inner Zone button (Bed Exit Monitoring)
3. Outer Zone button (Bed Exit Monitoring)
4. OFF button
5. Volume button (3 levels of sound pressure)
6. PAUSE button
7. Bed Exit Monitoring Activated (Inner Zone Monitoring)
8. Patient icon (patient is on the bed)
9. Volume indicator (3 levels of sound pressure)
10. Server connection icon (arrows only – connected, arrows with cross – disconnected)
11. Bed icon with bed statuses
12. SafetyMonitor system status indicator (ON/OFF/PAUSE)
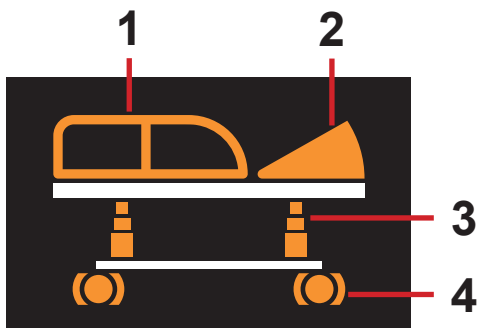
*Fig. Bed icon with bed statuses
(orange - alerts/insecure statuses)*

1. siderail status (orange - siderail down)
2. backrest angle (orange - backrest in less than 30°)
3. bed height (orange - bed not in the lowest position)
4. brake status (orange - unbraked castors)

17 Cleaning/Disinfection

⚠ **WARNING!**
Risk of injury due to accidental bed movement!
► Always disable the function buttons when cleaning between the undercarriage and mattress support platform.

⚠ **CAUTION!**
Material damage due to incorrect cleaning/disinfection!
► Do not use washing machines.
► Do not use pressure or steam cleaners.
► Follow the instructions and observe the dosages recommended by the manufacturer.
► Ensure that disinfectants are selected and applied exclusively by qualified hygiene experts.
► Respect used materials during cleaning and desinfection! For information see the following table.

Bed components	Materials used
Head and foot ends	Polypropylene + ABS
Siderails	Polypropylene + ABS
Mattress support platform covers (Thighrest, Calfrest)	Polypropylene
Mattress support platform covers (Backrest)	Polypropylene or HPL (x-ray version)
Castors	Polyurethane + Steel + Polyamide
Frame structure	Powder Coated Steel (powder is epoxy – polyester)
Columns	Oxidized aluminum alloy
Undercarriage cover	ABS
Corner covers	Polypropylene
Corner bumpers	Polypropylene
Keyboards	Polyester, MP glues
Siderail Release Mechanisms	Polyamide (PA6)
CPR levers	Polyamide (PA66)

For safe and gentle cleaning:
► Do not use any strong acids or bases (optimum pH range 6 - 8).
► Exclusively use detergents that are suitable for cleaning medical equipment.
► Do not use abrasive powders, steel wool, or other materials and cleaning agents that might damage the mattress replacement system.
► Never use any corrosive or caustic detergents.
► Never use detergents that deposit calcium carbonate.
► Never use detergents with solvents that might affect the structure and consistency of the plastics (benzene, toluene, acetone, etc.).
► Clean electrical components carefully and allow them to dry completely.
► Do not immerse SCU in water or steam-clean it.
► Observe local directives regarding infection control.
► Make sure any cleaning agent used is approved by:
  ■ the facility in which the mattress replacement system is to be used.
  ■ by competent authority of the country in which the mattress replacement system is to be used.

17.1 Cleaning (Eleganza 4)

Prepare for cleaning as follows:
► Put the mattress support platform in the highest position.
► Adjust the back and thigh rests so that the reverse sides are accessible.
► Disable the function buttons on the control elements using the Attendant Control Panel.
► Disable the foot controls using the Attendant Control Panel.
► Disconnect the bed from the mains.
► Move the bed to the location where it will be cleaned.
► Lock the brakes on the bed.

17.1.1 Daily Cleaning

Clean the following bed parts:
- All control elements for adjusting the bed
- All handles
  - CPR release handle
- Bed ends
- Siderails (in highest position)
- Freely accessible mattress surface
- Mobi-Lift®
- Accessory rails

17.1.2 Cleaning before Changing Patients

Clean the following bed parts:
- All control elements for adjusting the bed
- All handles
- CPR release handle
- Bed ends
- Siderails (in highest position)
- Freely accessible mattress surface
- Mobi-Lift®
- Accessory rails
- All plastic mattress support platform covers
- Plastic undercarriage covers
- Telescopic columns
- Mattress on all sides
- Freely accessible metal parts of mattress support platform
- Cable ducts
- Lifting pole sleeve fitting
- Infusion stand sleeve fitting
- Bumpers
- Castors
- Brakes

17.1.3 Complete Cleaning and Disinfection

Clean the following bed parts:
- All control elements for adjusting the bed
- All handles
- CPR release handle
- Bed ends
- Siderails (in highest position)
- Freely accessible mattress surface
- Mobi-Lift®
- Accessory rails
- All plastic mattress support platform covers
- Plastic undercarriage covers
- Telescopic columns
- Mattress on all sides
- Freely accessible metal parts of mattress support platform
- Cable ducts
- Lifting pole sleeve fitting
- Infusion stand sleeve fitting
- Bumpers
- Castors
- Brakes
- Interior parts (accessible after removing mattress support platform covers)

18 Troubleshooting

⚠ **DANGER!**
Risk of mortal injury due to electric shock!
► If a fault occurs, have the electric motor, power box or other electrical parts repaired by qualified personnel exclusively.
► Do not open the protective covers of the electric motor or the power box.

Error/Fault	Cause	Solution
Adjusting with position buttons not possible	GO Button was not pressed	Press the GO button.
	Function disabled on Attendant Control Panel	Enable disabled function.
	Actuators have no power Defective actuators Defective accumulator	Check the mains connection. Notify the service department.
	Mains Plug inserted incorrectly	Insert the Mains Plug correctly.
	Faulty Power Source	Notify the service department.
	Faulty Control Element	Notify the service department.
Faulty Mattress support platform Height/Tilt Adjustment	Obstacle on the undercarriage cover	Remove the obstacle.
	Function disabled on Attendant Control Panel	Enable disabled function.
	Actuators have no power Defective actuators Defective accumulator	Check the mains connection. Notify the service department.
	Mains Plug inserted incorrectly	Insert the Mains Plug correctly.
	Faulty Power Source.	Notify the service department.
	Faulty Control Element.	Notify the service department.
Lowering Backrest from the upright position not possible	Obstacle under the Backrest or in the drive mechanism.	Remove the obstacle
	CPR Release Handle is defective	Notify the service department.
Adjusting Siderails not possible	Obstacle in the Siderail Release Mechanism	Remove the obstacle.
	Siderail Release Mechanism is defective.	Notify the service department.
Faulty brakes	Obstacle blocking brakes mechanically	Remove the obstacle.
	The brake mechanism is defective	Notify the service department

19 Maintenance

⚠️ **WARNING!**
Risk of injury when working on the bed!
► Ensure that the bed is disconnected from the mains connection prior to assembly, disassembly and maintenance.
► Ensure that the castors are locked prior to assembly, disassembly and maintenance.

⚠️ **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!
► Remove a defective bed from service and have the defective bed repaired.

NOTE LINET ® recommends attaching the maintenance plaque to the bed.

To keep the bed functioning correctly, ensure that the following maintenance work is performed at the correct intervals.

19.1 Monthly maintenance performed by the user

► Check all movable parts for wear.

19.2 Maintenance every 3 months performed by the user

► Check function of brake lever.
► Clean the piston shafts and lubricate with silicone oil.
► Clean the bolts and hinges of the mattress support platform (backrest, thighrest, calfrest) and lubricate with silicone oil.
► Check mechanism of mattress support platform extension.
► Check bolts on castors and tighten them if necessary.

19.3 Maintenance every 12 months performed by the service department of the manufacturer

19.3.1 Spare Parts

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

Information about spare parts is available from:
■ Customer service
■ Sales
■ Our technical support department

19.3.2 Completeness

► Perform a visual check (with delivery note if necessary).
► Have any missing parts replaced.

19.3.3 Wear

► Check all bolts and tighten if necessary.
► Check all locking mechanisms.
► Check the bed for wear, scratches or rub marks.
   Eliminate the cause if necessary.
► Have any defective parts replaced.

19.3.4 Functioning

► Check that all bed adjustments reach the maximum position.
► If necessary, clean, lubricate or replace any worn spots and parts.

19.3.5 Electric Control

Plug connections:
- ►   Replace O-rings on connectors.
- ►   Check plugs connections for dirt and defects.
  Clean or replace if necessary.
- ►   Check that the plug connectors are properly seated.

Motors

- ►   Check motor movement (adjust bed positions).
  Check for incorrect and interrupted movements.
  Have defective motors replaced if necessary.
- ►   Check cables for signs of wear and entanglement.
  Install a new cable or have it replaced if necessary.

Accumulator

- ►   Check that the accumulator is working properly (disconnect the bed from the mains).
  Have the accumulator replaced if necessary.

Fuses

- ►   Have fuses changed exclusively by qualified and trained service technicians authorised by the manufacturer.
- ►   Use the following fuse types exclusively:
- ■   T1.6 A (for 230 V input)
- ■   T3.15 A (for 100 - 127 V input)

19.3.6 Castors

- ►   Clean the castors completely.
- ►   Grease the castors if necessary (Caro EP 2 by DEA or an equivalent grease).
- ►   Check that the castors work properly.
- ■   Forward Movement
- ■   Unrestricted Movement
- ■   Braked
- ►   Have the brakes adjusted if necessary.
- ►   Have any defective castors replaced.

19.3.7 Accessories

- ►   Check that all accessories (for example, lifting pole, siderails, infusion stand, etc.) are working properly.
- ►   Replace if necessary.

19.4 Safety Technical Checks

⚠️ **WARNING!**
Risk of injury due to incorrect safety checks!
- ►   Ensure that safety checks are performed exclusively by customer service or authorised personnel (certified by the manufacturer).
- ►   Ensure that the safety checks are recorded in the service and maintenance log.

⚠️ **WARNING!**
Risk of injury due to defective bed!
- ►   Have a defective bed repaired immediately.
- ►   If the defect cannot be repaired, do not continue to use the bed.

Technical Safety Check of the medical bed must be performed at least once every 12 months.

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

NOTE   LINET ® provides service documentation for qualified personnel.

19.5 Maintenance Active Mattress

Check the following at least every 12 months:
- ►   Check inside and outside of mattress and outside of SCU for mechanical damage and signs of severe wear and tear.
- ►   Check if mattress and SCU are fully operational.
- ►   Perform electrical safety checks in accordance with local safety regulations.

Check the following every month:
- ►   Check external air filter in side of SCU for dust and dirt.
  If dust or dirt is visible, replace filter.
- ►   Replace any damaged parts immediately with original spare parts.
- ►   Ensure that maintenance and installation are performed exclusively by qualified personnel trained by the manufacturer.

NOTE   LINET ® provides service documentation for qualified personnel.

The manufacturer´s customer service is required to perform a technical safety check on the hospital bed every 12 months.

19.6 LINET ® Service Department

Our responsible LINET ® Service partners will ensure your LINET ® products are up and running when you need them. For more information on available service support and contract offerings, please contact us at **service@linetgroup.com** and ask for technical support. LINET ®'s nationwide network of highly skilled service providers that are equip- ped to service and maintain your LINET ® equipment at the highest level.

20 Disposal

20.1 Environment Protection

LINET ® is aware of the importance of environmental protection for future generations. Within the whole LINET company is applied the environmental management system, which is in accordance with the internationally agreed standards ISO 14001. The international system recognition and certification ISO are based on the external audits executed by specialists from reputable international TŰV company. Materials used in our product have the minimal ballast on the environment. Noise emissions and vibrations are in accordance with applicable regulations for the place of use. The product is made of recyclable materials. Waste is eliminated through an authorized company for waste management under the applicable None of the wooden parts is made of tropical wood (such as mahogany, rosewood, ebony, teak etc.) or from timber from the Amazon region or similar rainforests. Our products do not contain hazardous substances based on heavy metals, asbestos, PCBs and CFCs. For disposal of packaging materials after installing beds contact your sales representative or service LINET about the possibility of a free take-back of packaging through an authorized company www.LINET.cz

20.2 Disposal

The materials of the appliance are reusable. By reusing, material recycling or other forms of use of old appliances you give an important contribution to the protection of our environment.
► Ask the responsible environmental protection authorities for the appropriate disposal point.
► Observe local and country-specific specifications for disposal.

20.2.1 Eleganza 4

Eleganza 4 bed is equipped with lead accumulator.

Pb

If Eleganza 4 is equipped with Integration Module (SafetyMonitor System), it contains lithium battery.
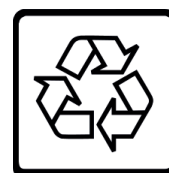
Li-ion

Within Europe

 To dispose of the appliance:
► When you dispose of your appliance do not put it into the household waste.
► Send the appliance to the recycling of electrical appliances.

The materials of the appliance are reusable. By reusing, material recycling or other forms of use of old appliances you give an important contribution to the protection of our environment.
► Ask the responsible environmental protection authorities for the appropriate disposal point.

Outside Europe
► Dispose of the bed or its components in accordance with local laws and regulations:
■ After using the bed
■ Following maintenance and installation work
► Hire an approved waste disposal company for disposal.

21 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.

22 Standards and Regulations

Apllied 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)**

22.1 EU Declaration of Conformity (Eleganza 4 with scales)

EC DECLARATION OF CONFORMITY	Number:	PSEN0033
	Version:	01

1. Product - instrument Type/Model:

Electrically operated hospital bed with scales – *Eleganza 4 / 1GE4*

2. Name and address of the manufacturer:

Commercial name	LINET spol. s r.o.
Registered address	Želevčice 5, 274 01 Slaný, Czech Republic
Reg. No.	00507814
Telephone	+420 312 576 111
Fax	+420 312 522 668

3. This declaration of conformity is issued under the sole responsibility of the manufacturer.

4. Object of declaration:

Product:	Eleganza 4 with scales (WS17)
Description and function designation:	Electrically operated hospital bed with scales, intended for use in standard, and acute care. This EC conformity declaration also covers all applicable accessories.
Classification of the product as the medical device:	Class I non sterile, with measuring function, according to annex IX of Government Order No.54/2015 Coll. (MDD 93/42/EEC) – rule 12

5. The object of the declaration described above is in conformity with the relevant Union harmonization legislation:

- Act No. 268/2014 Coll., on Medical Devices (Directive 93/42/EEC)
- Act No. 350/2011 Coll., on chemical substances and mixtures (Regulation (EC) No 1907/2006)
- Government Order No.54/2015 Coll., with is specifies technical requirements for medical devices (Directive 93/42/EEC)
- Applicable requirements of Government Order No.176/2008 Coll., on machinery devices (Directive 2006/42/EC)
- Government Order No.481/2012 Coll., on the restriction of the use of certain hazardous substances in electrical and electronic equipment (Directive 2011/65/EU)
- Government Order No.121/2016 Coll., on non-automatic weighing instruments (Directive 2014/31/EU)

6. References to the relevant harmonized standards used or references to the other technical specifications in relation to which conformity is declared:

EN 60601-1:2006/A1:2013, EN 60601-1-2:2015, EN 60601-1-6:2010, EN 60601-2-52:2010, EN ISO 14971:2012 and EN 45501:2015.

7. Notified body

Name and number of NB	Performed	Issue the Certificate No.
Czech Metrology Institute, NB 1383 Okruzni 31, 638 00 Brno, Czech Republic	EU type examination in accordance with Module B of Government Order No.121/2016 Coll. (module B of Directive No. 2014/31/EU)	TCM 128/17-5444
Czech Metrology Institute, NB 1383 Okruzni 31, 638 00 Brno Czech Republic	Certification / approval of Quality Management System for production and testing of non-automatic weighing instruments in accordance with Annex II, module D of Government Order No.121/2016 Coll. (Annex II, module D of Directive No. 2014/31/EU)	0115-SJ-C002-06
Electrotechnical testing institute, NB 1014, Pod Lisem 129/2, 171 02 Praha 8-Troja- Praha 8, Czech Republic	Conformity assessment in accordance with Annex II and VII of Government Order No.54/2015 Coll. (Annex II and VII of Directive 93/42/EEC)	MED 170042

8. Another information

We hereby declare that the above mentioned energy meters are fulfill in Directive 2014/32/EU of the European Parliament and the Council.

Place and date of declaration issue: Slaný, 23.11.2017

Signed for and on behalf of LINET spol. s r.o.

Ing. Tomáš Kolář, Managing Director

Z S11P10_4, Verze 02

CE 1014

22.2 EU Declaration of Conformity (Eleganza 4 without scales)

EC DECLARATION OF CONFORMITY	Number:	PSCZ0034
	Version:	01

1. Product - instrument Type/Model:

Electrically operated hospital bed with scales – *Eleganza 4 / 1GE4*

![LINET]

2. Name and address of the manufacturer:

Commercial name	LINET spol. s r.o.
Registered address	Želevčice 5, 274 01 Slaný, Czech Republic
Reg. No.	00507814
Telephone	+420 312 576 111
Fax	+420 312 522 668

3. This declaration of conformity is issued under the sole responsibility of the manufacturer.

4. Object of declaration:

Product:	Eleganza 4 without scales
Description and function designation:	Electrically operated hospital bed with scales, intended for use in standard, and acute care. This EU conformity declaration also covers all applicable accessories.
Classification of the product as the medical device:	Class I non sterile, with measuring function, according to annex IX of Government Order No.54/2015 Coll. (MDD 93/42/EEC) – rule 12

5. The object of the declaration described above is in conformity with the relevant Union harmonization legislation:

- Act No. 268/2014 Coll., on Medical Devices (Directive 93/42/EEC)
- Act No. 350/2011 Coll., on chemical substances and mixtures (Regulation (EC) No 1907/2006)
- Government Order No.54/2015 Coll., with is specifies technical requirements for medical devices (Directive 93/42/EEC)
- Applicable requirements of Government Order No.176/2008 Coll., on machinery devices (Directive 2006/42/EC)
- Government Order No.481/2012 Coll., on the restriction of the use of certain hazardous substances in electrical and electronic equipment (Directive 2011/65/EU)

6. References to the relevant harmonized standards used or references to the other technical specifications in relation to which conformity is declared:

EN 60601-1:2006/A1:2013, EN 60601-1-2:2015, EN 60601-1-6:2010, EN 60601-2-52:2010, EN ISO 14971:2012

Place and date of declaration issue: Slaný, 23.11.2017

Signed for and on behalf of LINET spol. s r.o.

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Ing. Tomáš Kolář, Managing Director

Z S11P10_4, Verze 02

CE