ESSENZA

LINET

Turn To The Essence Of Care

The Acuity Adaptable Hospital Bed

ESSENZA

Turn To The Essence Of Care

SUPERIOR SAFETY & ERGONOMICS DRIVEN BY NURSE- AND PATIENT-CENTRIC DESIGN

Lateral tilt turns into a new gold standard in acute care reducing physical strains on the caregiver by 67%.[6]

Low height helps to reduce the severity of patients' falls.[7]

EasyDrive® enables effortless patient transportation done by one caregiver without need of any initial push force for acceleration.[8]

The safe mobilization concept supports the patient through specially designed features & can help to speed up the recovering process.[14]

EFFICIENCY OF A SINGLE PLATFORM UNLOCKING INCREDIBLE VERSATILITY

Single platform efficiency brought by one intuitive user interface. This means only one training for nurses and easier rotation across hospital wards.

Incredible versatility that meets all the needs of each individual department. Bespoken design is an additional bonus.

UNPARALLELED EFFECTIVENESS BROUGHT BY ADVANCED TECHNOLOGIES

SafeSense 3 helps to save time by providing a real-time overview of the patients' position in the bed or by smart alerting when the patient is at risk of pressure injuries or falls.

SmartTrack facilitates the work of caregivers by tracking hospital assets or patients at room level accuracy.

Integrated Air2Care mattress provides easy and time-saving maintenance for caregivers.

ESSENZA 300

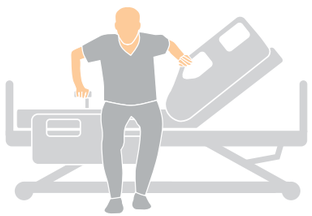
Universal low height bed with an exceptional safe working load of 300 kg improves safety for any patient.

Fall prevention during sleeping phases

25.5 cm

Safe mobilization at chair height

40 cm



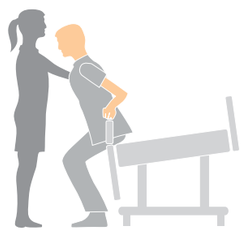
Optimal nursing position

78 cm

ESSENZA 300 LT

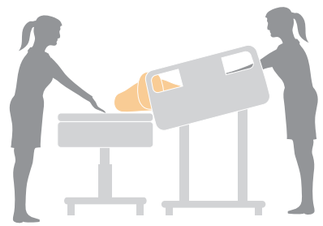
Lateral tilt turns into a new gold standard in acute care, delivering premium ergonomics & effective mobilization.

Mobilizing Patient Early



Safe Patient Handling

Easier Patient Transfer



EARLY MOBILIZATION

CHALLENGE

— Complications associated with long hospital stay [9]

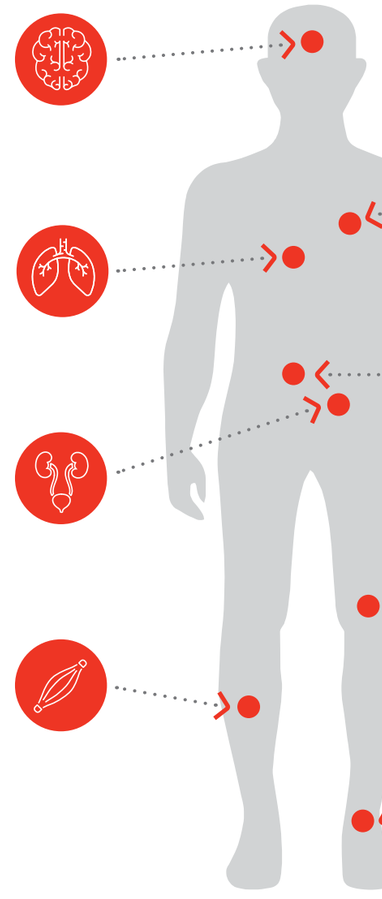
— Longer length of hospital stay due to immobility [10]

— Increased costs for the hospital [9]

$2,607
Average daily costs of hospital care [11]

6.59 days
Average length of stay at acute care ward [12]

$9,300
Total hospital care costs per stay [11]



Neurological
Depression, anxiety, delirium, forgetfulness and confusion.

Respiratory/ pulmonary
Pneumonia, atelectasis, VAP, pulmonary embolism.

Renal
Stasis, nephritis, catheter-associated urinary tract infections.

Musculoskeletal
Muscle Atrophy, weakness and contractures are seen in 25–90% of patients with prolonged hospitalization.

Cardiovascular
Cardiac muscle atrophy, hemodynamic instability and DVT.

Gastrointestinal
Altered patterns of elimination, incontinence, constipation, fecal impaction.

Metabolic
Acid-Base Balance, Metabolic Syndrom.

Skin
Pressure ulcers. Lack of mobility increases the risk of pressure injury development.

Learn more about Early Mobilization with LINET

Read the full report Effect of Mobi-Lift on Patients' Mobilization

SOLUTION

Mobi-Lift®, Mobi-Pad & Mobi-Grips promote early mobilization programs which can impact the length and the costs of hospital stays. Mobilization programs can reduce the incidence of pressure injuries by up to 86%.[15]

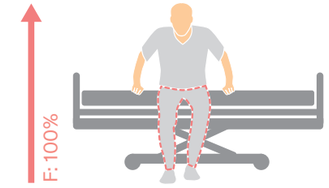
Length of hospital stay decreased by **1.5 days** [13,14]

In Hospital Falls reduced by **37%** [14]

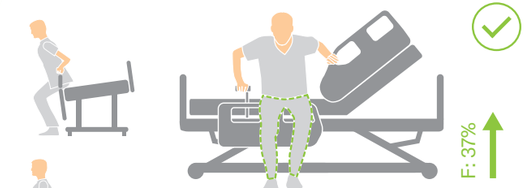
Hospital associated infections reduced by **60%** [14]

	Level of Function 0	Level of Function 1	Level of Function 2	Level of Function 3	Level of Function 4
Level of function					
Criteria	Bed immobile – Clinically stable, but not able to cooperate in care	Bed Active – Able to cooperate in self-care and bedbound	Able to sit – Strong enough to sit upright and able to move leg against gravity	Able to stand – Increased strength for standing activities and actively participates in transfers to chair	Able to Walk – Tolerates walking in the room and independently transfers to chair
Solutions	– Lateral tilt – Head of Backrest – Reverse Trendelenburg – Vascular leg position	– Lateral tilt – Head of Backrest – Reverse Trendelenburg – Vascular leg position – Mobi-Grips – Cardiac chair*	– Mobi-Pad* – Mobi-Grips* – Cardiac chair*	– Mobi-Lift® handle* – Mobi-Grips* – Mobi-Pad* – Lateral tilt*	– Mobi-Lift® handle* – Mobi-Grips* – Mobi-Pad* – Lateral tilt*

Less demanding standing procedure [15]



Standard Bed
Standing up from the bed in the traditional way is more demanding on lower limbs muscles.



Bed with Mobi-Lift®
63% less muscular force in lower limbs needed for successful standing-up when using Mobi-Lift® and Lateral tilt.

* This tool intends to support the improvement of outcomes for patients and Health Care Professionals. Please be advised that the purpose is to offer guidance and does not replace the need for clinical assessment/judgement.

PRESSURE INJURY PREVENTION

CHALLENGE

— Worldwide prevalence of HAPI varies from 6–18.5% in acute care segment [16]

— Pressure injuries can develop within minutes of immobility [17]

The cost of treating pressure injuries varies

from £1,214 to £14,108 [18]

Read the full report: Promoting pressure injury prevention

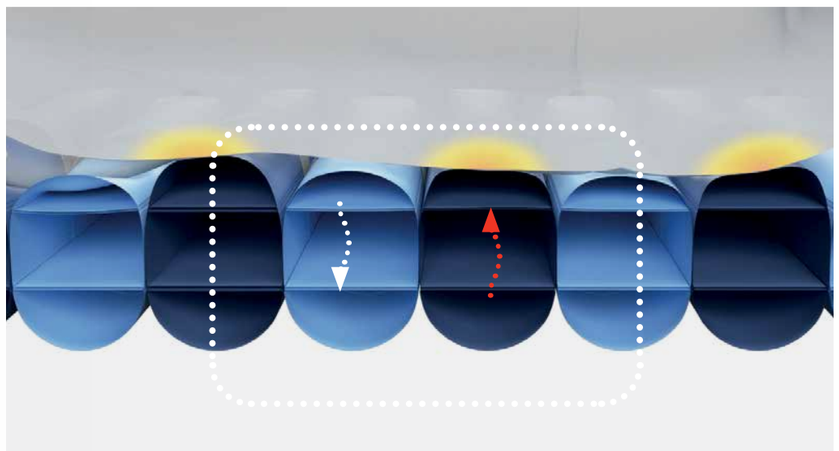
Learn more about the Air2Care mattresses range

SOLUTION

The integrated Air2Care alternating pressure mattress provides periodic pressure relief.

2-Cell Alternating System

Intermittent Pressure Reduction



2 cells

Due to the alternating 2-cell system, Air2Care reduces pressure and helps to minimize sustained pressure peaks to the patient's body.

Alternating pressure can be used for pressure injury prevention as part of an overall program of care.

Automatic Pressure Setting with the Easy Smart System

At the press of a button, the mattress will automatically and continuously adjust to the patient's individual size, weight and position. Manual pressure adjustment is available to suit patient comfort.

Patient is Positioned in Bed

Patient is positioned in bed.

Mattress control panel

The system individually evaluates the pressure for the patient.

Mattress

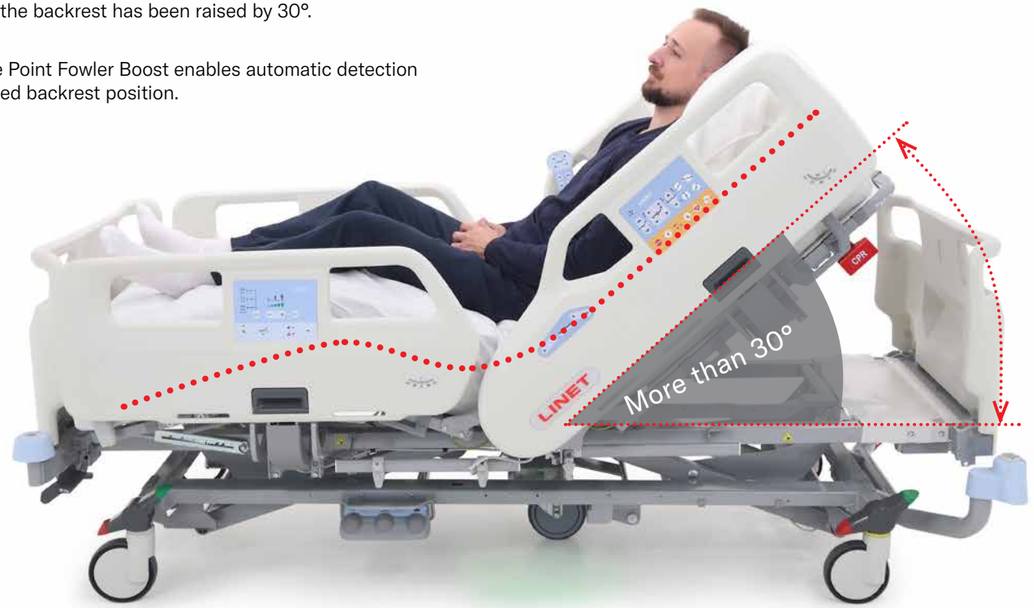
The pressure in the mattress corresponds to the patient's individual parameters.

Fowler Boost

Minimized risk of bottoming while sitting

The Air2Care mattress starts to increase air inflation when it detects the backrest has been raised by 30°.

The Single Point Fowler Boost enables automatic detection of the raised backrest position.



Discover more about our full mattresses range

Learn more about our passive mattresses range

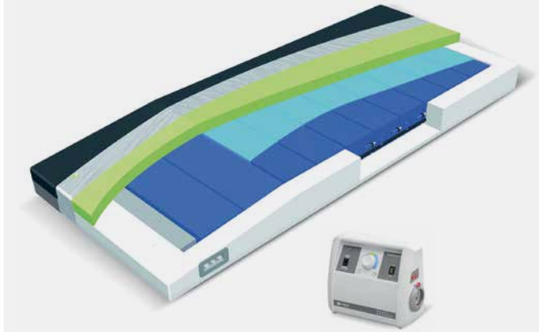
Wide range of mattresses for Essenza

To provide high patient comfort and prevention of pressure injuries, LINET offers a wide choice of mattress replacements for Essenza according to the needs of patients with different risk levels of pressure injury development.

Hybrid Mattress

CliniCare 100 HF

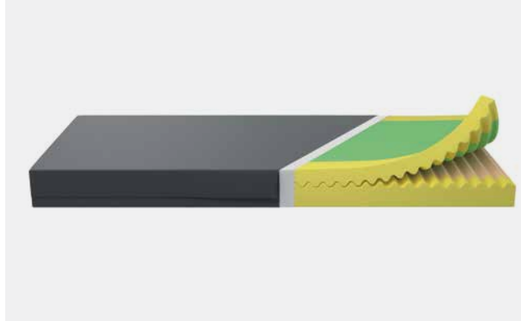
- The CliniCare 100 HF hybrid mattress is comfortable and highly efficient for the prevention of pressure injuries.
- It uses a combination of an active (air) system and a passive (foam) mattress to provide many benefits across the spectrum of hospital care.



Passive Mattresses

ViskoMatt, MediMatt

- The Passive mattresses portfolio is designed to improve pressure redistribution through the mechanisms of immersion and envelopment. Within the range are mattresses with combination of viscoelastic, cold and Polyuretan foams.
- ViskoMatt with viscoelastic foam ("memory foam") allows the body to sink into the mattress slightly, providing optimal support and adjustment to the body's contours.



FALLS PREVENTION

CHALLENGE

— Falls are one of the most commonly reported patient safety incidents in the hospital setting [19]

— 84.8% of falls happen unwitnessed [20]

— 27% of falls happen when a patient tries to leave the bed [21]

11.5 days
Longer hospital stays due to IHF*, [22]

£2,600
for patient fall [23]

* in hospital falls

Read the full report: The Power of Prevention

SOLUTION

Brake alarm, low height & monitoring of patient by SafeSense 3 help to prevent patients' falls.

Safe position indicator

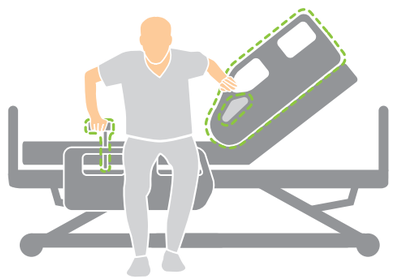
With a low height of 25.5 cm, Essenza 300 is a premium solution for any patient who may be at higher risk of falls. Green light indicates safe position.

Brake alarm

The bed automatically emits an audible signal when when it is left unbraked while the main power cable is connected.

Bed exit alarm by SafeSense 3

Staff is notified whenever patient leaves the bed. Continuous monitoring of the motion in combination with bed exit notifications can be helpful in prevention and quick reaction to any such event.



Mobi-Controls

Mobi-Lift®, Mobi-Pad & Mobi-Grips empower patients and help with their faster mobilization which can prevent patients' falls when exiting the bed.

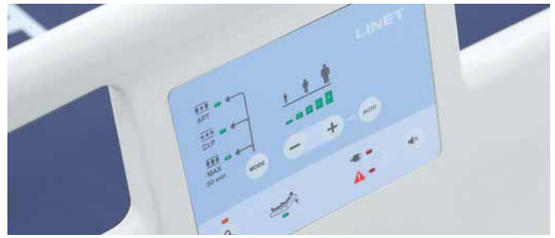
IMPROVE PATIENT EXPERIENCE

CHALLENGE

— Stressful environment and patient discomfort [24]
— Painful movements
— Patients sleep quality is disturbed by the surrounding noise [25]

SOLUTION

Bed features increasing patients comfort during hospital stay lead to better satisfaction and health outcomes.



Integrated mattress

Integrated compressor Air2Care with reduced vibration by more than 50% [26], which provides patients with better comfort.

USB integration

The integrated USB port allows smart devices to be utilized safely from the bed and enables socialization.

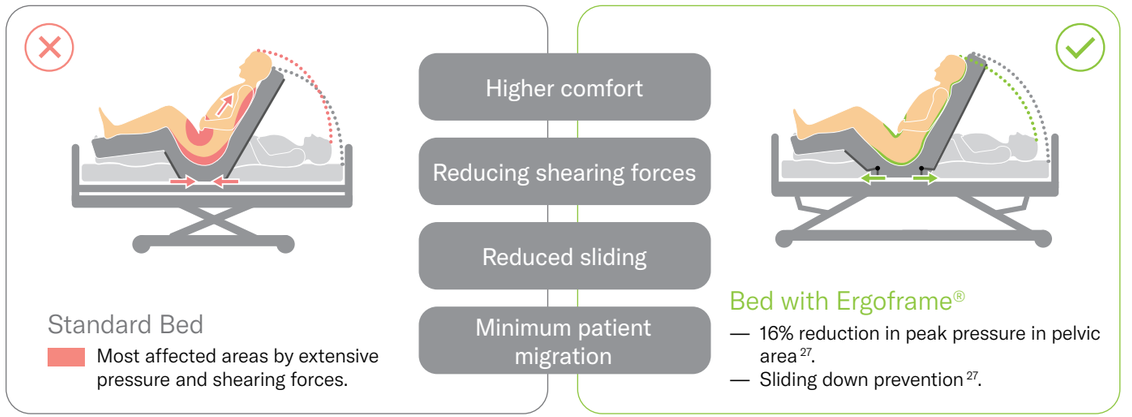
Compatibility with bedside cabinets

Self-service bedside cabinets influence the comfort of patients with reduced mobility.

Night light

Undercarriage light helps the patient with orientation in the room at night.

The Positive Effects of Ergoframe®



Standard Bed

Most affected areas by extensive pressure and shearing forces.

Bed with Ergoframe®

— 16% reduction in peak pressure in pelvic area [27].
— Sliding down prevention [27].

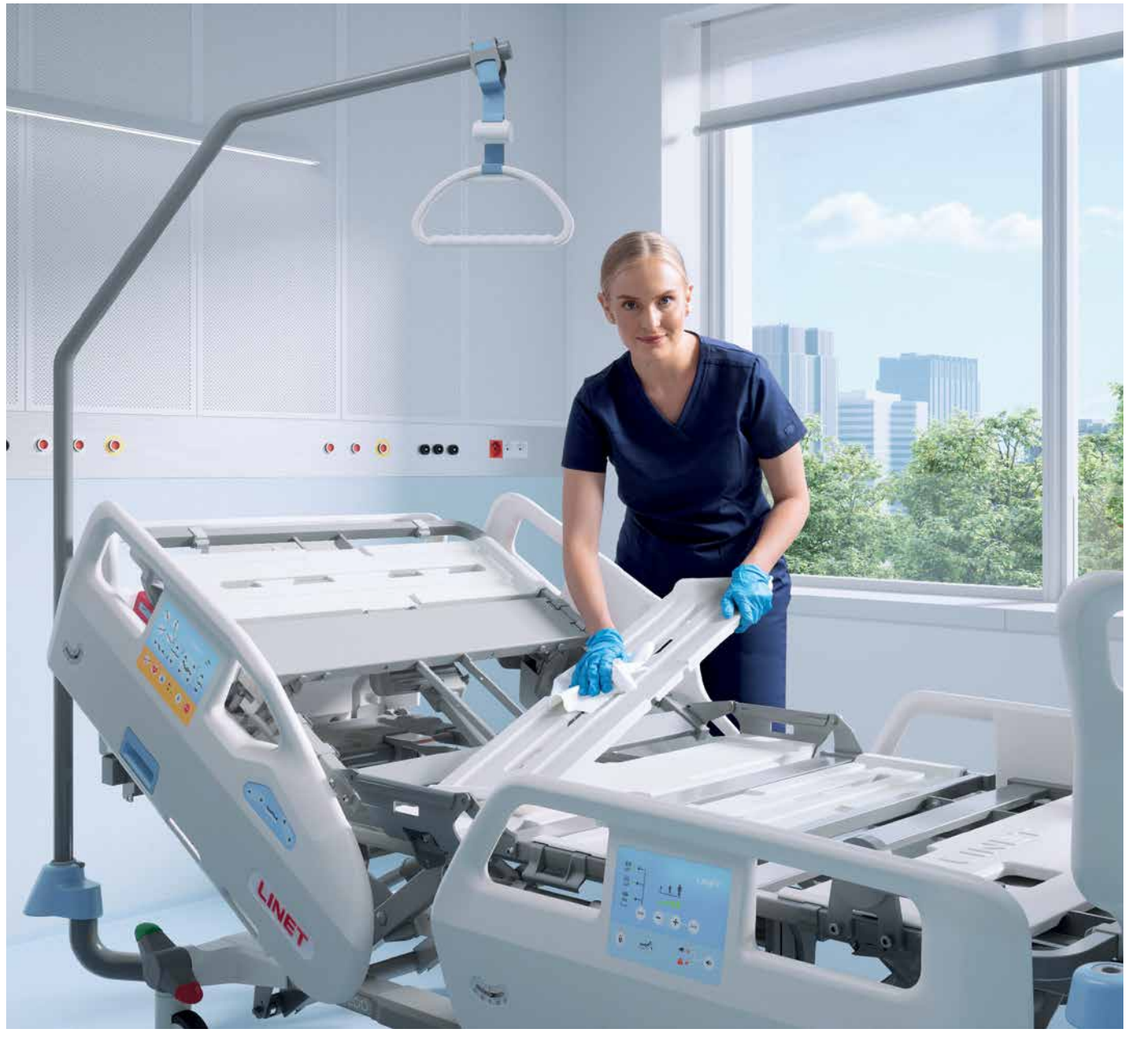
HOSPITAL OPERATIONS EFFICIENCY

CHALLENGE

— The need for fast and effective cleanability of the equipment and prevention of infection

— Nurses can spend 27% of their shift dealing with administrative tasks [34]

— 25% of injuries in hospital are related to slip, trip and fall [35]



SOLUTION

Advanced technologies allow easier patient moving, handling and monitoring.

Active Mattress Integration

Air2Care integrated helps to save space due to the absence of the external compressor and reduces the risk of cable damage while transporting.

Single platform

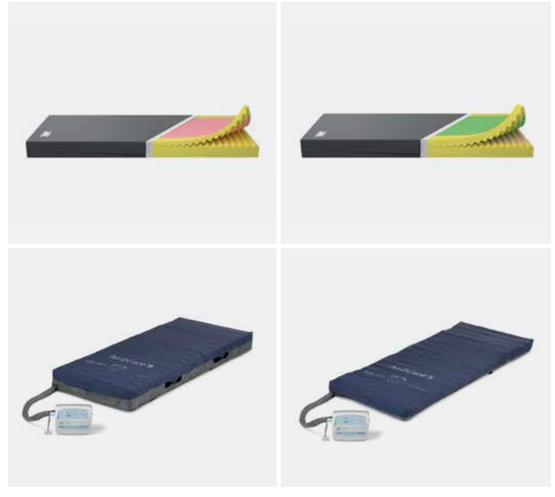
Platform solution means only one user-friendly interface, simpler training for nurses, and standardized cleaning procedures.

Convenient cells maintenance

Individual cells of Air2Care Integrated are removable and can be easily cleaned, decontaminated or replaced.

Open Mattress Architecture

Any type of mattress can be placed on the bed and follow hospital standards for pressure prevention.



KEY FEATURES OVERVIEW

Lateral tilt delivers premium ergonomics to caregivers and effective patients' mobilization.

Mobi-Lift® handle provides support during bed exit.

EasyDrive® enables patient transportation by only one caregiver.

SoftBrake castor makes operation of the brake levers easier with less physical strain.

Integrated Air2Care mattress increases patient comfort and ease of caregiver use while minimizing physical strain.

Mobi-Grips provide support for self-mobilization.

Mobi-Pad adjusts the height of the bed.

Ergoframe® makes patient positioning more comfortable.

SIDERAILS OVERVIEW

Safe&Free siderails

for nursing homes add a home look to the bed, can be adjusted to different heights and assist patients whilst standing up.

Safe&Free full split siderails

in combination with mobilization features support patients during ingress and egress out of the bed and help with early patient mobilization.

Single collapsible siderails

contribute effectively to fall prevention and thanks to the simple release mechanism are easy to use by staff.

SmartInk

Apple green

Beige grey

Coral red

Garnet red

Ochre yellow

Jade green

Light blue

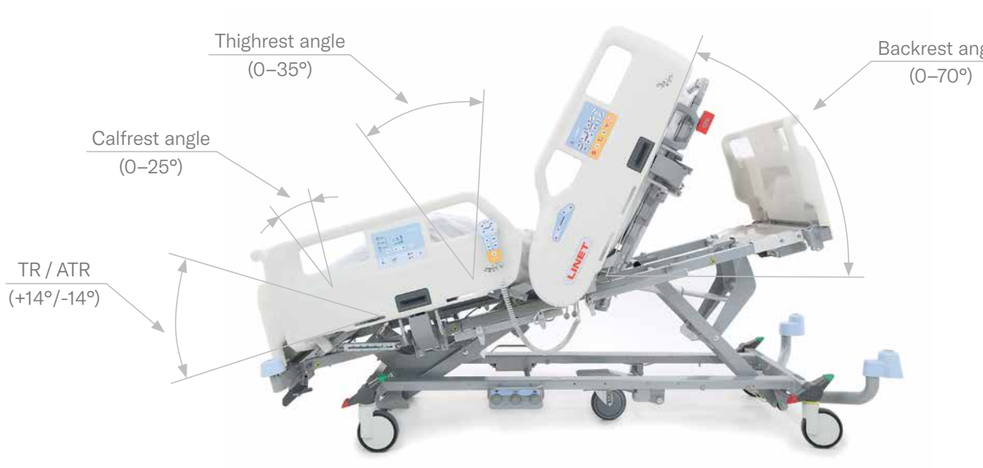
Paris blue

Royal blue

Olive green

** Please note actual shade of color may vary.*

TECHNICAL SPECIFICATIONS



BED HEIGHT SPECIFICATION*

CASTOR TYPE	300 MIN	300 MAX	300LT MIN	300LT MAX
Tente Linea 125 mm	25.5 cm	75.9 cm	39.4 cm	89.8 cm
Tente Linea 150 mm	28 cm	78.4 cm	41.9 cm	92.3 cm
Tente Integral 150 mm	31.3 cm	81.7 cm	45.2 cm	95.6 cm
Tente Integral Soft Brake 150 mm	30.8 cm	81.2 cm	44.7 cm	95.1 cm

The SafePosition is elevated by 11,9 cm from its lowest position.

TECHNICAL SPECIFICATIONS

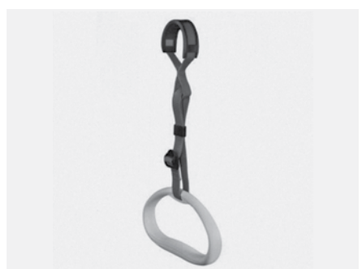
ESSENZA	300	300LT
SWL	300 kg	270 kg
Max. patient weight (application environment 1,2)	235 kg	205 kg
Max. patient weight (application environment 3,5)	265 kg	235 kg

Accessories

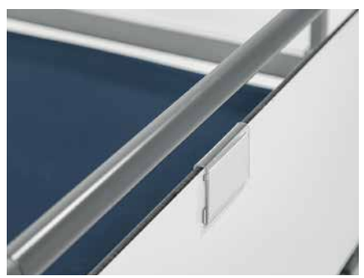
Telescopic IV pole

Lifting pole handle

Handset holder horizontal



Grey plastic triangular holder

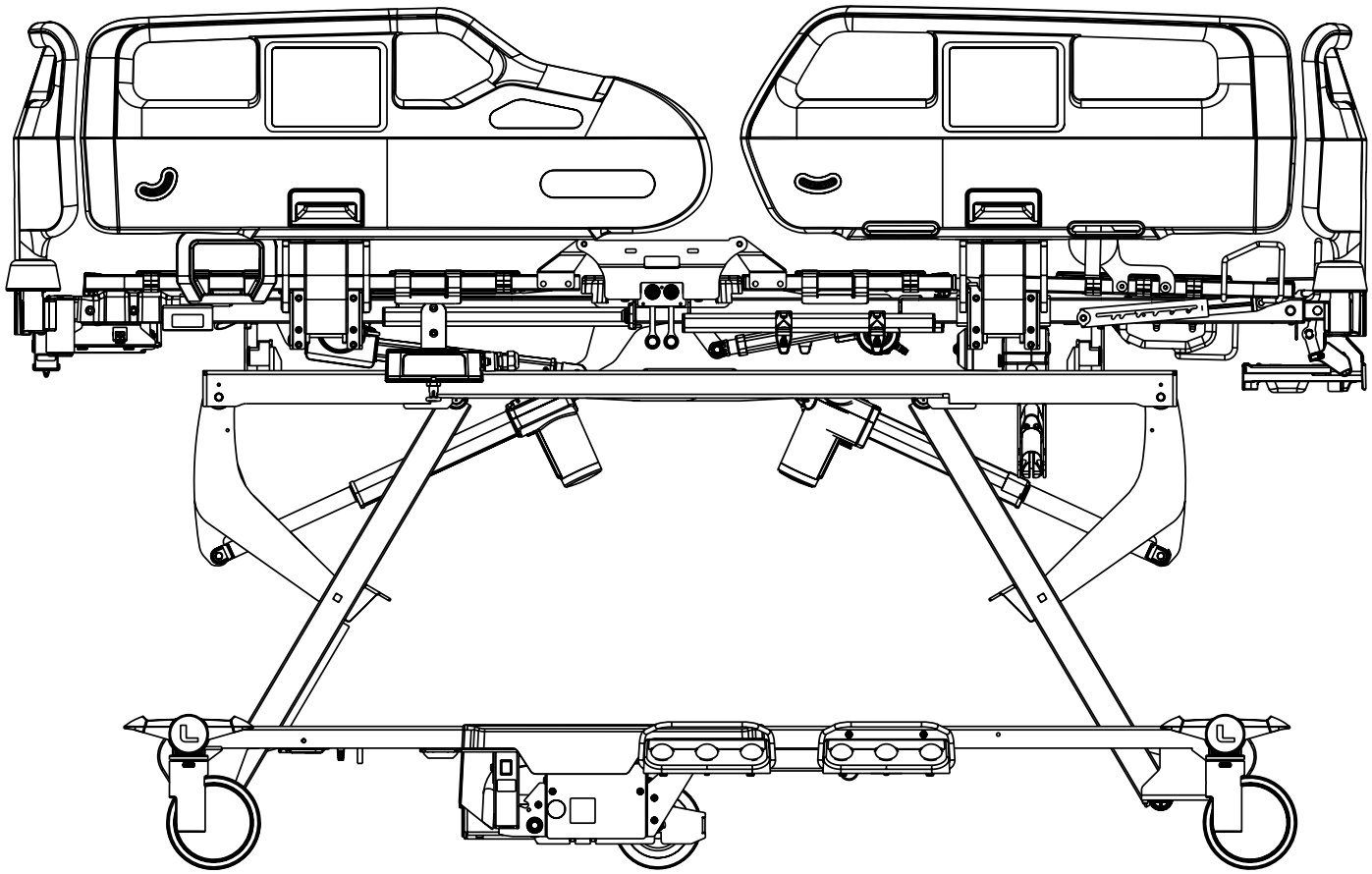


Name holder

Positioning cushion

LINET

Instructions for Use and Technical Description



Essenza® 300

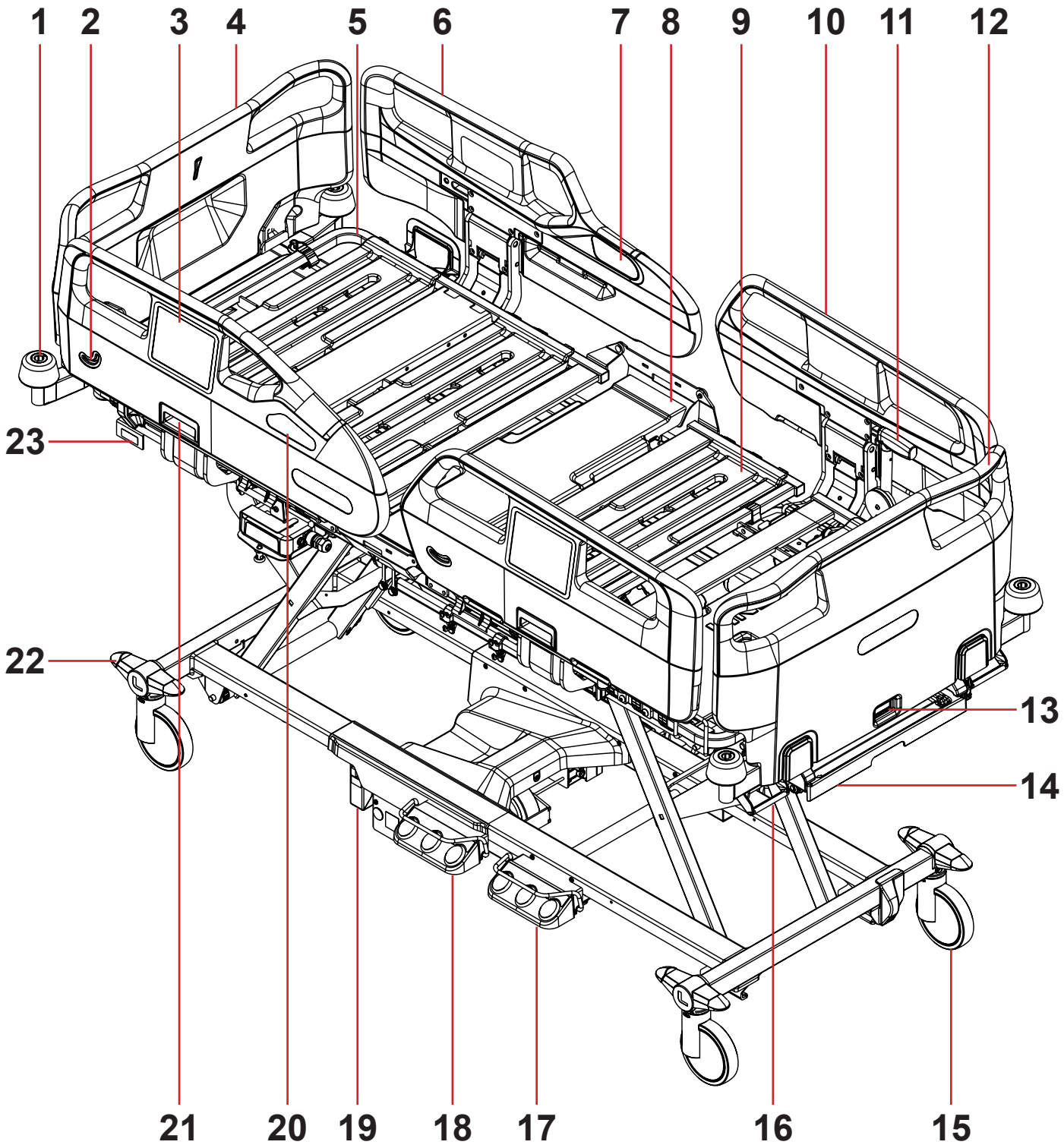
Medical Bed for Acute Care and Long-term Care with or without EasyDrive®

D9U001EZ3-0101

Version: 03

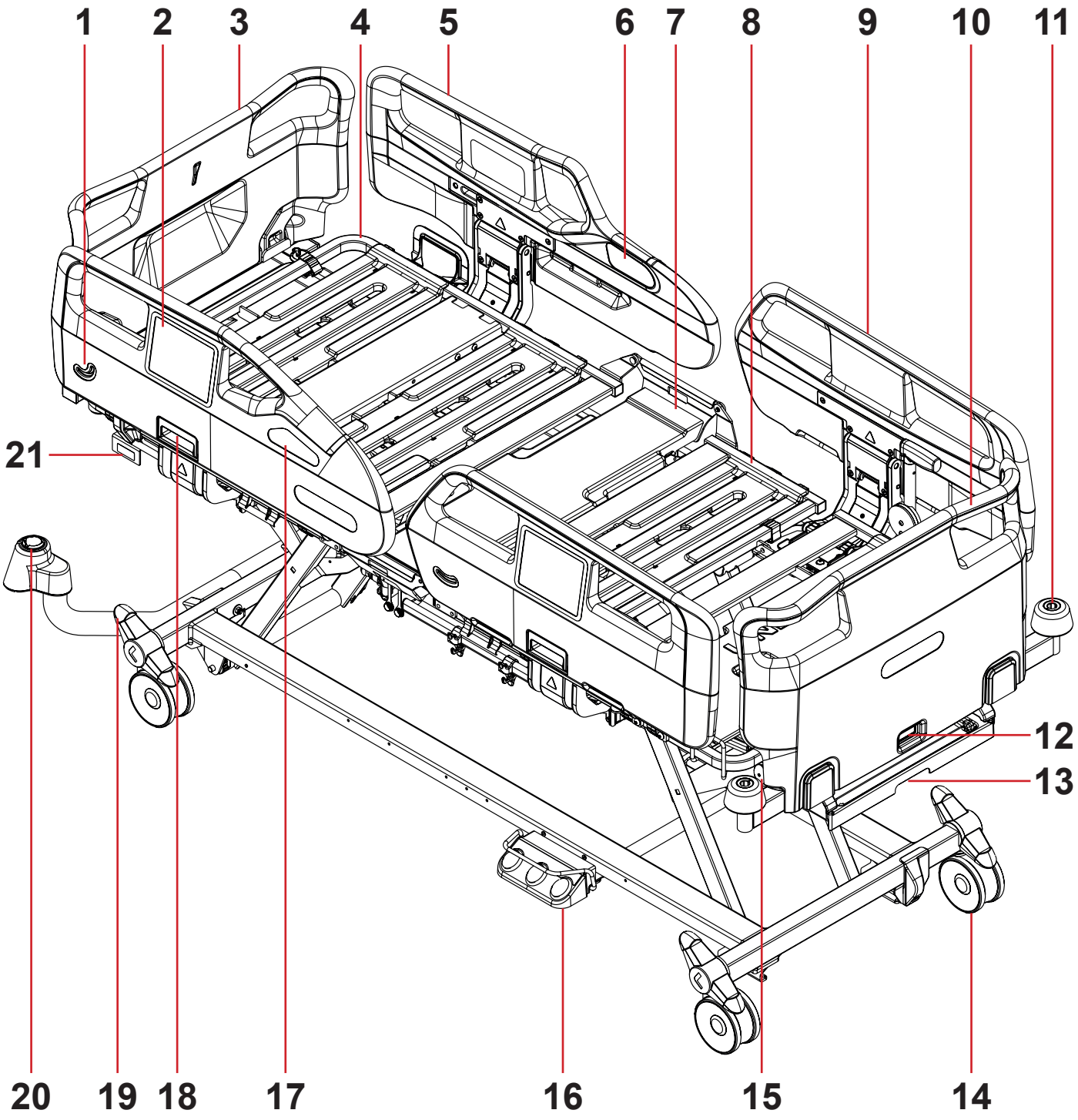
Publication Date: 2023-11

4.1 Essenza 300 with Lateral Tilt with plastic siderails



1. Corner Bumper with accessory bushing
2. Angle Indicator
3. Siderail Control Panel
4. Head Board
5. Backrest
6. Head Plastic Siderail
7. Patient Control Panel
8. Seat Section
9. Thighrest
10. Foot Plastic Siderail
11. Mobi-Lift Handle
12. Foot Board
13. Foot Board Safety Lock
14. Plastic Linen Shelf (also for Attendant Control Panel)
15. Castor
16. Bed Extension Handle (Advanced Bed Extension)
17. Bed Height Foot Control
18. Lateral Tilt Foot Control
19. EasyDrive
20. Mobi Pad
21. Siderail Release Mechanism
22. Castor Control Lever
23. CPR Lever for Emergency Backrest Release

4.4 Essenza 300 with plastic siderails



1. Angle Indicator
2. Siderail Control Panel
3. Head Board
4. Backrest
5. Head Plastic Siderail
6. Patient Control Panel
7. Seat Section
8. Thighrest
9. Foot Plastic Siderail
10. Foot Board
11. Corner Bumper with accessory bushing
12. Foot Board Safety Lock
13. Plastic Linen Shelf (also for Attendant Control Panel)
14. Castor
15. Bed Extension Safety Catch (Simple Bed Extension)
16. Bed Height Foot Control
17. Mobi Pad
18. Siderail Release Mechanism
19. Castor Control Lever
20. Accessory Adaptor with 2 Bushings for Lifting Pole
21. CPR Lever for Emergency Backrest Release

5.2.2 Mechanical Specifications of the Essenza 300 with Lateral Tilt

Parameter	Value
External Bed Length	219 cm (221 cm for bed with Accessory Adaptor with 2 Bushings for Lifting Pole at bed head end)
External Bed Width	99,5 cm
Maximum Siderail Height above Mattress Support Platform: with plastic siderails with telescopic siderails with collapsible siderails	 42 cm 43 cm 38 cm
Siderail Dimensions (length x height): plastic siderails (head siderail; foot siderail) telescopic siderails (head siderail; foot siderail) collapsible siderails	 101,3 cm; 88,5 cm x 43,5 cm 100 cm; 100 cm x 43 cm 162 cm x 38 cm
Maximum Mattress Dimensions (length x width)	200 cm x 90 cm
Maximum Mattress Height: with plastic siderails with telescopic siderails with collapsible siderails	 20 cm 20 cm 16 cm
Bed Extension	0 cm / 20 cm / 30 cm
Calfrest Extension	0 cm – 20 cm
Castor Diameter: 125 Tente Linea double castor 150 Tente Linea double castor 150 Tente Integral simple castor 150 Tente Integral Soft Brake simple castor	 12,5 cm 15 cm 15 cm 15 cm
Minimum — Middle — Maximum Mattress Support Platform Height above floor (without mattress): Essenza 300 with 125 Tente Linea double castors Essenza 300 with 150 Tente Linea double castors Essenza 300 with 150 Tente Integral simple castors Essenza 300 with 150 Tente Integral Soft Brake simple castors	 39,4 cm – 51,3 cm – 89,8 cm 41,9 cm – 53,8 cm – 92,3 cm 45,2 cm – 57,1 cm – 95,6 cm 44,7 cm – 56,6 cm – 95,1 cm
Maximum Clearance under the Undercarriage in Standard Position (with 125 Tente Linea double castors)	14,1 cm
Maximum Clearance under the Undercarriage in Standard Position (with 150 Tente Linea double castors)	16,6 cm
Maximum Clearance under the Undercarriage in Standard Position (with 150 Tente Integral simple castors)	19,9 cm
Maximum Clearance under the Undercarriage in Standard Position (with 150 Tente Integral Soft Brake simple castors)	19,4 cm
Maximum Backrest Angle	70°
Maximum Thighrest Angle	35°
Maximum Calfrest Angle	25°
Maximum Lateral Tilt Angle	15°
Maximum Angle between Calfrest and Thighrest	300°
Ergoframe Distances (Backrest Distance / Thighrest Distance)	5 cm / 3 cm
Maximum Trendelenburg Tilt Angle	14°
Maximum Reverse-Trendelenburg Tilt Angle	14°
Average Bed Weight	180 kg
Maximum Lifting Pole Load	75 kg
Safe Working Load (SWL)	270 kg
Maximum Mass of Mobile Hospital Bed (Maximum Mass of Empty Bed + Safe Working Load)	470 kg
Maximum Patient Weight Application environment 1, 2 Application environment 3, 5	 205 kg 235 kg
Maximum Sound Pressure Level	53 dBA

5.3 Electrical Specifications

Parameter	Value
Input Voltage, Frequency: version without integrated mattress version 1 with integrated mattress version 2 with integrated mattress version 3 with integrated mattress version 4 with integrated mattress version 5 with integrated mattress	 100 — 240 V AC, 50/60 Hz 100 — 127 V AC, 60 Hz 220 — 240 V AC, 50 Hz 220 — 240 V AC, 60 Hz 100 V AC, 50 Hz 220 V AC, 60 Hz
Maximum Power Input	max. 480 VA
Ingress Protection according to EN 60529	IPX4
Electric Protection Class	Class I (with type B Applied Parts)
Duty Cycle	max. 2 minutes ON / 18 minutes OFF
Bed Accumulator	AKU Pb VRLA 2 x 12 V / 1,2 Ah / Fuse 15A
EasyDrive Accumulator	AKU Pb 24 V / 7 Ah
Control Unit Fuses: version without integrated mattress version with integrated mattress	 2x T4A L 250 V 2x T4A L 250 V, 2x T1A L 250 V

5.4 Environment Conditions

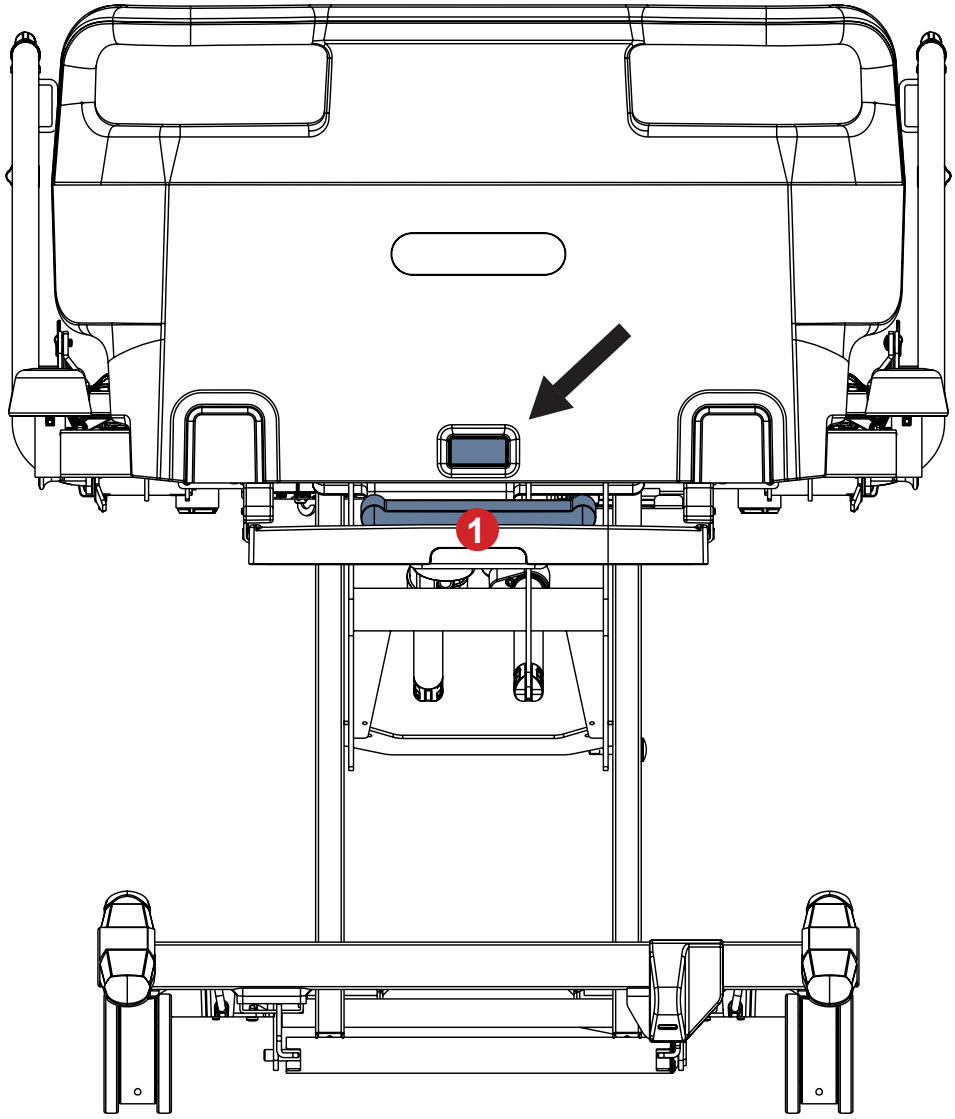
WARNING!
Risk of damaging the product due to incorrect environment conditions!
► Do not use the Essenza 300 bed under the environmental conditions outside of those specified in the Environment Conditions chapter!

CAUTION!
Risk of damaging the product if its packaging is exposed to environmental conditions outside of those specified in the Environment Conditions chapter!

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

8.2 Plastic Foot Board with one Safety Lock

There are 2 types of the Plastic Head Board and Foot Board depending on the compatibility of Head Board with additional 2 Bushings for Lifting Pole in the undercarriage at bed head end. Only the Narrow Head Board without side corner bumpers is compatible with the additional 2 Bushings for Lifting Pole. Standard Head Board and Foot Board are interchangeable in the case of the compatible configuration without the additional 2 Bushings for Lifting Pole. Narrow Head Board and Foot Board are interchangeable in the case of the compatible configuration with the additional 2 Bushings for Lifting Pole. Bed Head Board and Bed Foot Board must always be of the same type.



1. Attendant Control Panel in the Plastic Linen Shelf

Fig. Standard Plastic Foot Board

Dismount the Foot Board as follows:

► Unlock Foot Board Safety Lock.
► Pull Foot Board from sleeve fittings.

Install the Foot Board as follows:

► Unlock Foot Board Safety Lock.
► Slide Foot Board into sleeve fittings.
► Lock Foot Board Safety Lock.

11.1.1 Description of the Plastic Siderails

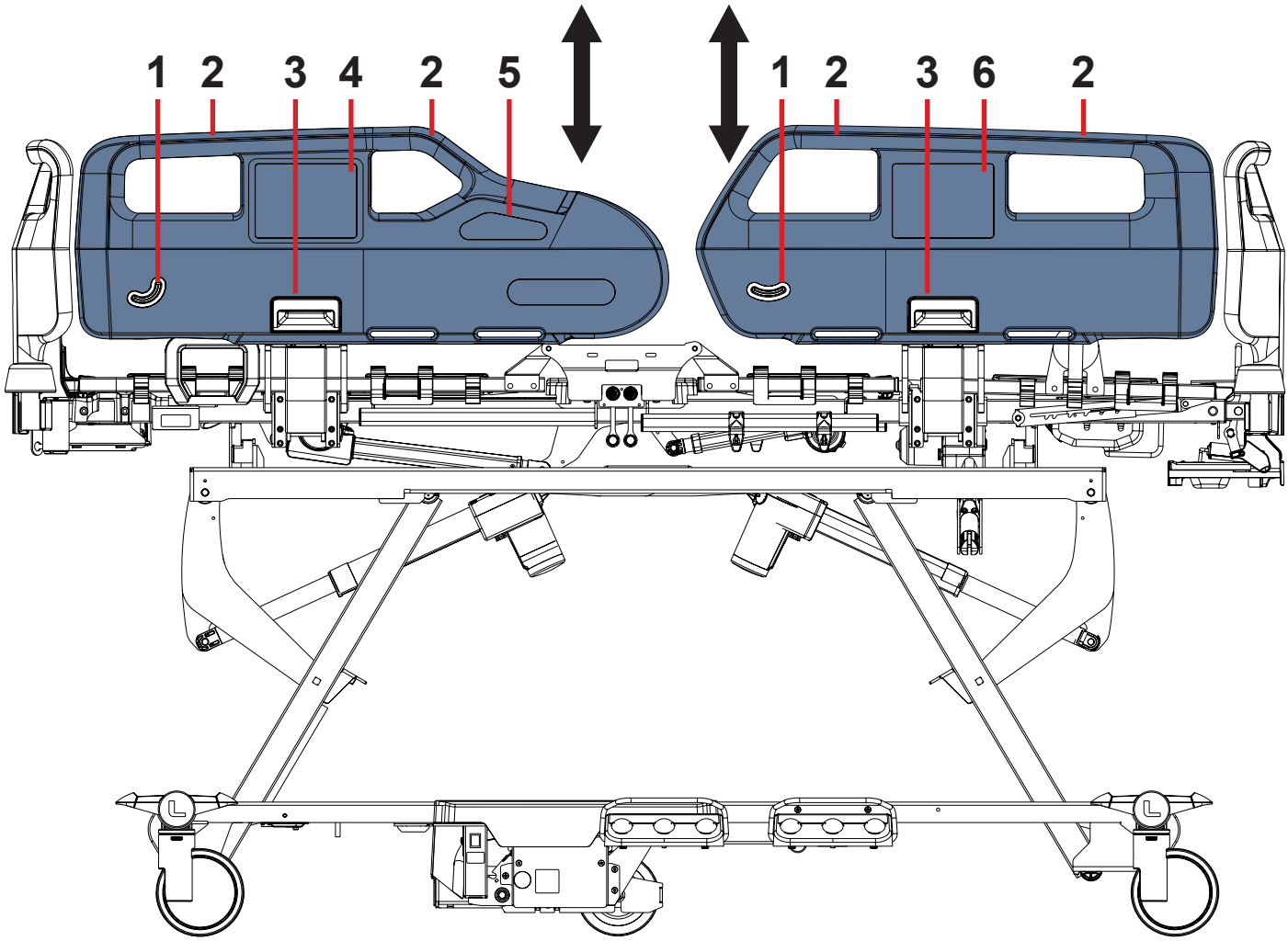


Fig. Manipulation with Plastic Siderails

1. Angle Indicator
2. Siderail Handle
3. Siderail Release Mechanism with Siderail Release Handle
4. Siderail Control Panel
5. Mobi Pad
6. Control Panel of the Integrated Mattress (Air2Care IN)

MANIPULATION

To raise siderail up:

- ► Grab siderail by Siderail Handle (**2**).
- ► Pull siderail up until it latches. You will hear audible „click“.
- ► Push the siderail forward and backward to ensure the siderail is fixed in the upper position!

To release siderail down:

- ► Grab siderail by Siderail Handle (**2**).
- ► Unlock siderail by pulling Siderail Release Handle (**3**) to yourself.
- ► Fold down siderail slowly.

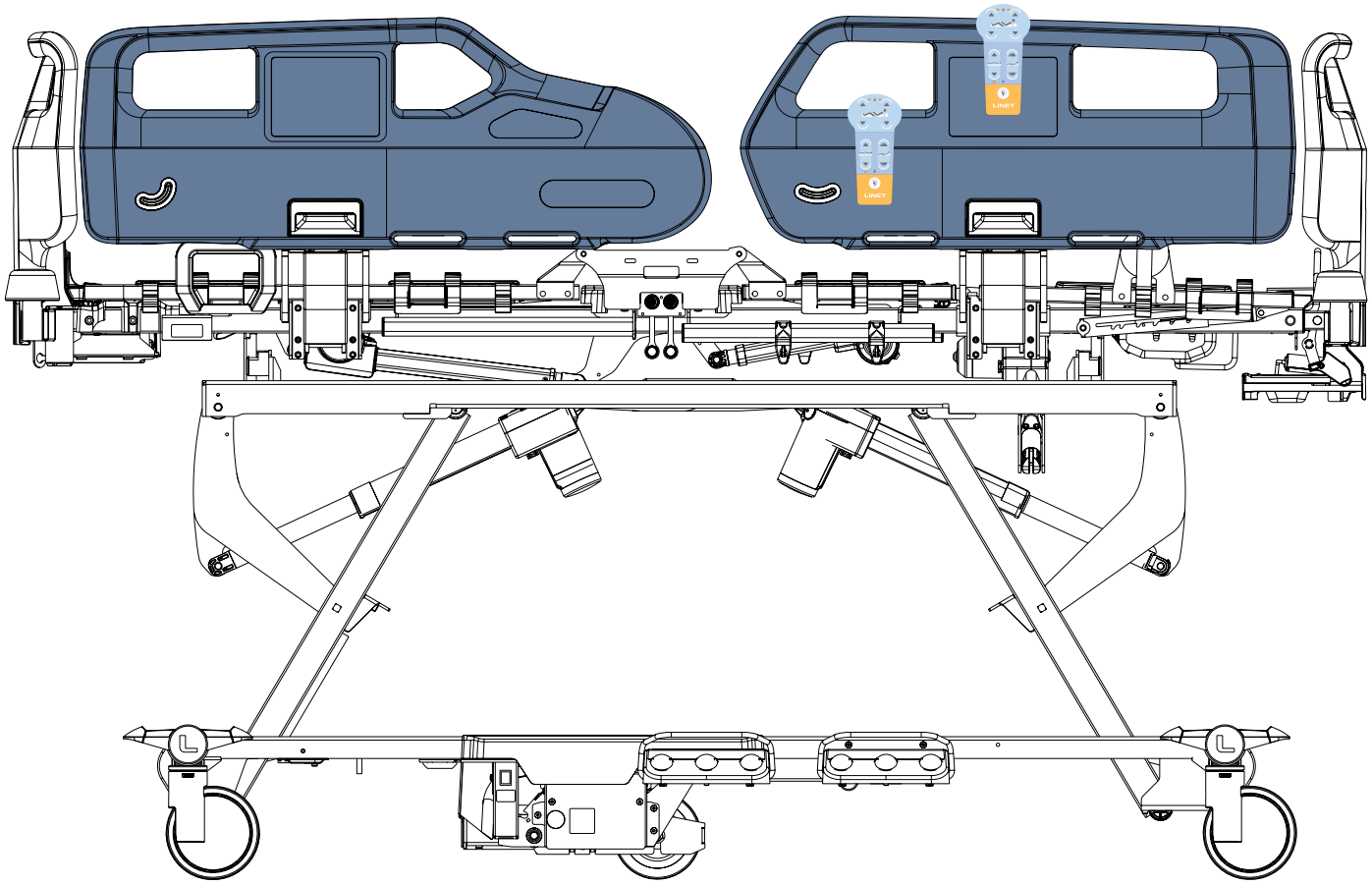


Fig. Correct positions of the Handset Control Panel on the Plastic Siderails

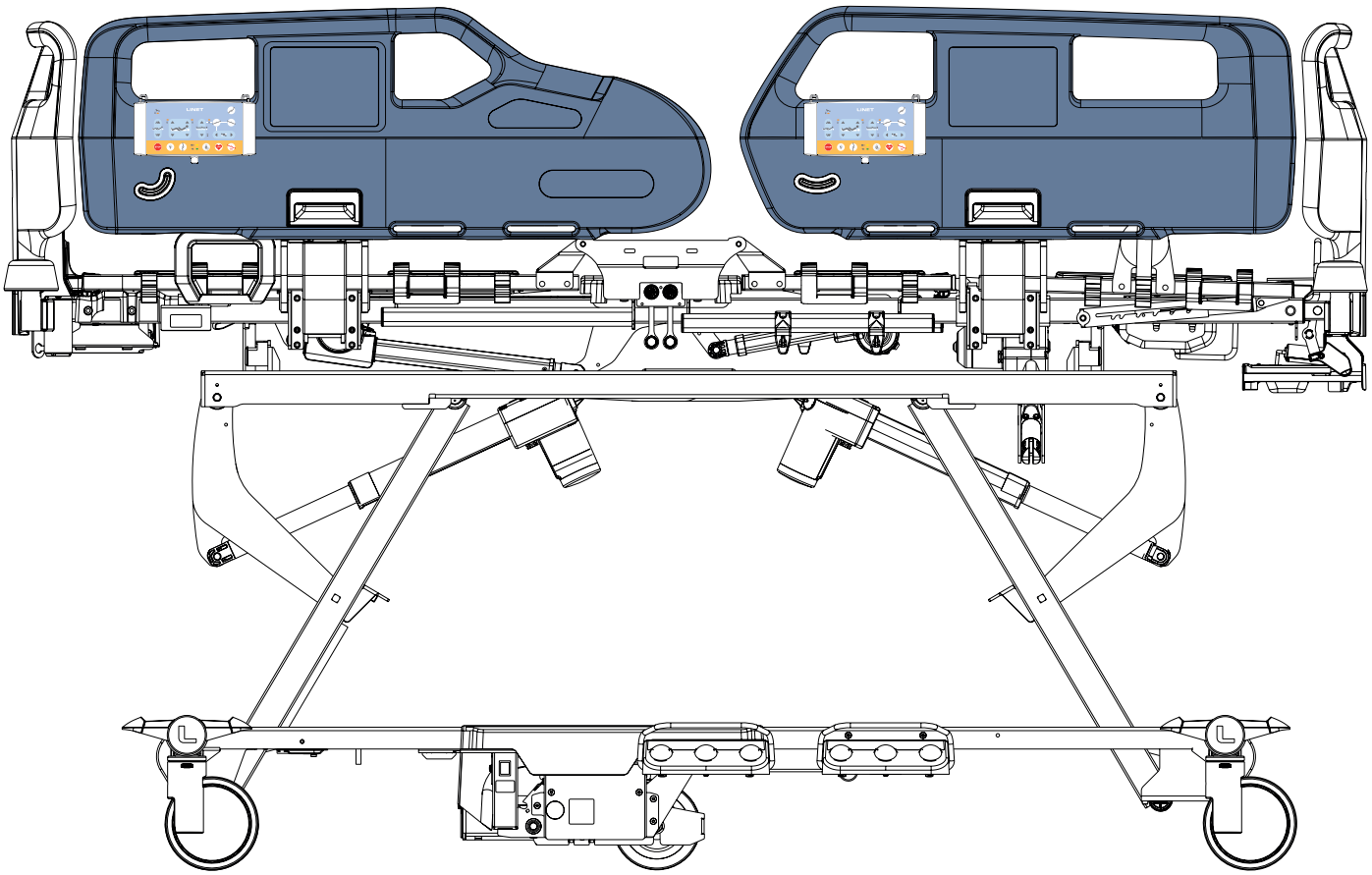


Fig. Correct positions of the Attendant Control Panel on the Plastic Siderails

12.1 Attendant Control Panel for Essenza 300 with Lateral Tilt

Ensure that exclusively trained nursing staff operates the Attendant Control Panel for Essenza 300 with Lateral Tilt.
The use of the Attendant Control Panel for Essenza 300 with Lateral Tilt is described in the chapter Bed Positioning (see „13 Bed Positioning“ on the page 81).

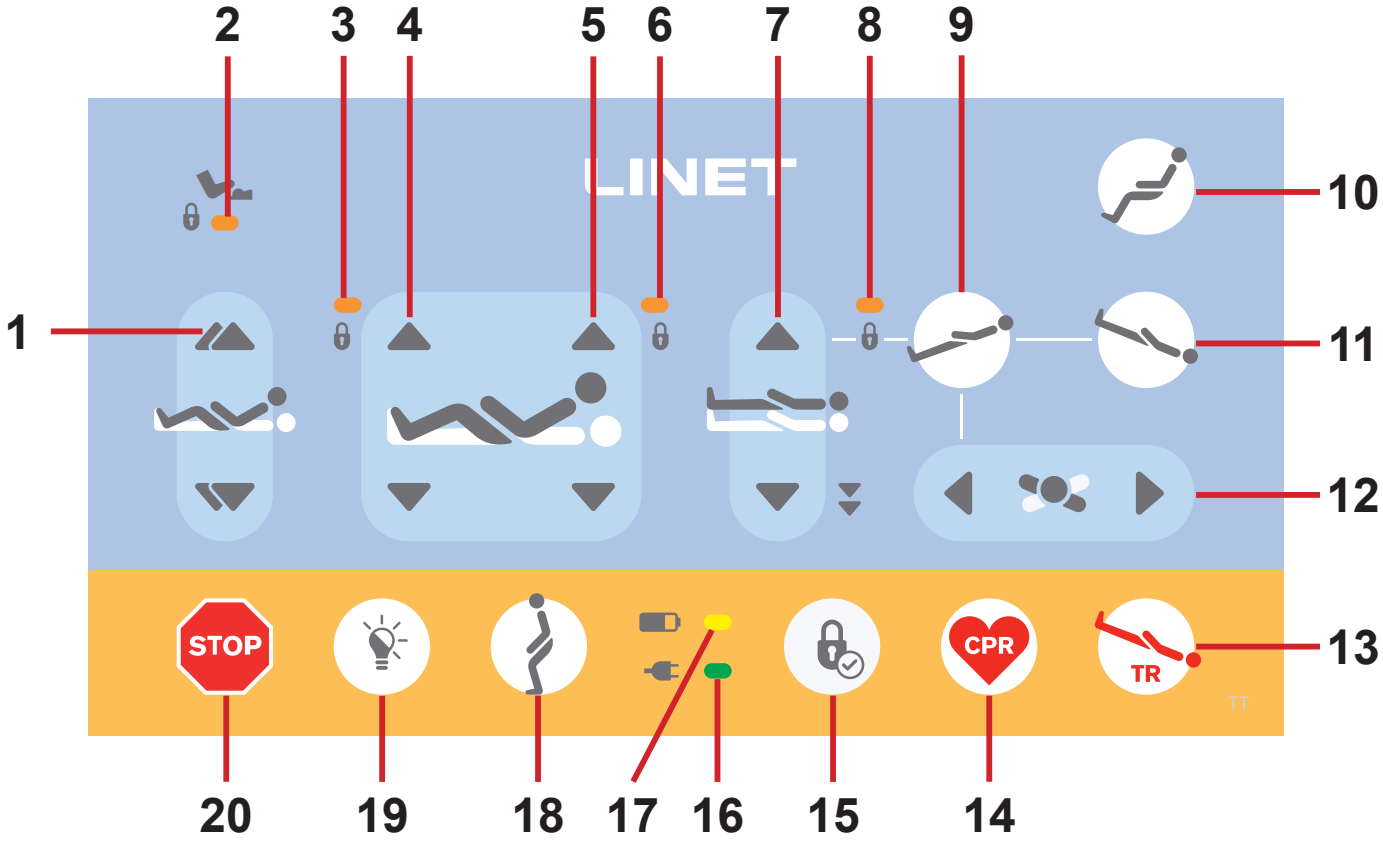


Fig. Attendant Control Panel for Essenza 300 with Lateral Tilt

1. **Autocontour Adjustment Buttons (up/down)**
2. **Foot Control Lock LED Indicator (ON - locked)**
3. **Thighrest Adjustment Lock LED Indicator (ON - locked)**
4. **Thighrest Adjustment Buttons (up/down)**
5. **Backrest Adjustment Buttons (up/down)**
6. **Backrest Adjustment Lock LED Indicator (ON - locked)**
7. **Bed Height Adjustment Buttons (up/down + Extra Low Position)**
8. **Bed Height Adjustment Lock LED Indicator / Lateral Tilt Lock LED Indicator / Trendelenburg Tilt Lock LED Indicator / Reverse-Trendelenburg Tilt Lock LED Indicator (ON - locked)**
9. **Reverse-Trendelenburg Tilt Button**
10. **Cardiac Chair Position Button**
11. **Trendelenburg Tilt Button**
12. **Lateral Tilt Buttons (right/left)**
13. **Emergency Trendelenburg Position Button**
14. **Emergency CPR Position Button**
15. **Lock Button**
16. **Mains Power LED Indicator**
17. **Accumulator Charge Status LED Indicator**
18. **Mobilization Position Button**
19. **Bed Illumination Control Button**
20. **Central STOP Button**

12.3 Siderail Control Panel for Essenza 300 with Lateral Tilt

Ensure that exclusively trained nursing staff operates the Siderail Control Panel for Essenza 300 with Lateral Tilt.
The use of the Siderail Control Panel for Essenza 300 with Lateral Tilt is described in the chapter Bed Positioning (see „13 Bed Positioning“ on the page 81).

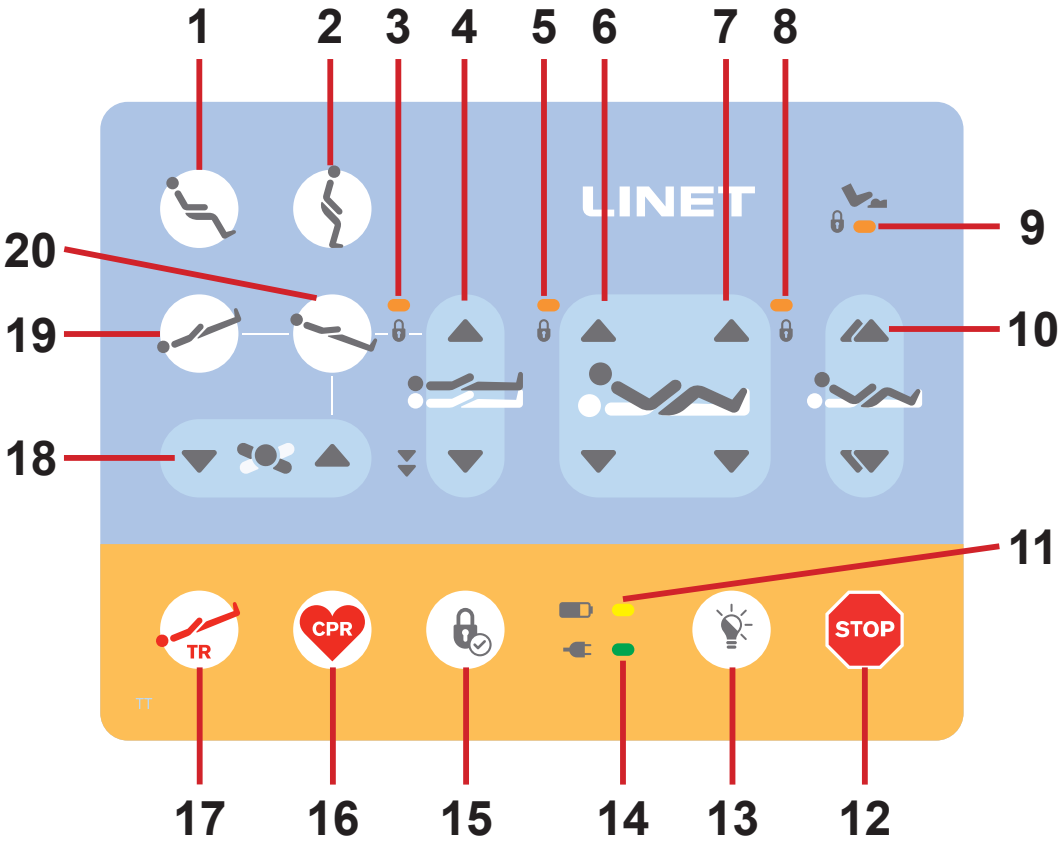


Fig. Siderail Control Panel for Essenza 300 with Lateral Tilt

1. Cardiac Chair Position Button
2. Mobilization Position Button
3. Bed Height Adjustment Lock LED Indicator / Lateral Tilt Lock LED Indicator / Trendelenburg Tilt Lock LED Indicator / Reverse-Trendelenburg Tilt Lock LED Indicator (ON - locked)
4. Bed Height Adjustment Buttons (up/down + Extra Low Position)
5. Backrest Adjustment Lock LED Indicator (ON - locked)
6. Backrest Adjustment Buttons (up/down)
7. Thighrest Adjustment Buttons (up/down)
8. Thighrest Adjustment Lock LED Indicator (ON - locked)
9. Foot Control Lock LED Indicator (ON - locked)
10. Autocontour Adjustment Buttons (up/down)
11. Accumulator Charge Status LED Indicator
12. Central STOP Button
13. Bed Illumination Control Button
14. Mains Power LED Indicator
15. Lock Button
16. Emergency CPR Position Button
17. Emergency Trendelenburg Position Button
18. Lateral Tilt Buttons (right/left)
19. Trendelenburg Tilt Button
20. Reverse-Trendelenburg Tilt Button

12.5 Handset Control Panel

Patient is allowed to use the Handset Control Panel only if hospital personnel had assessed that the patient´s physical and psychological state is in accordance with use of this control element and only if the hospital personnel had trained the patient in accordance with these instructions for use.
The use of the Handset Control Panel is described in the chapter Bed Positioning (see „13 Bed Positioning“ on the page 81).
Keyboard of the Handset Control Panel can optionally be illuminated.

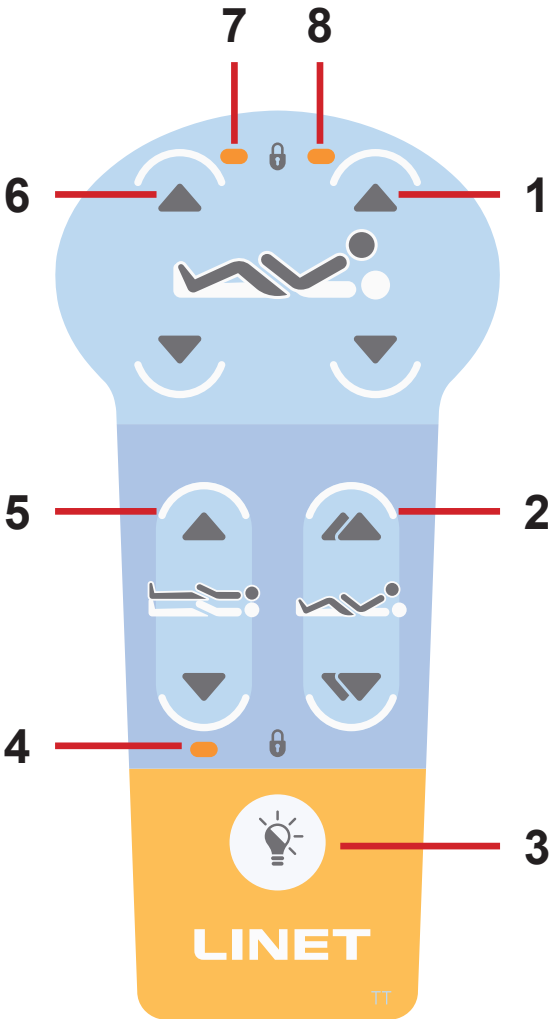


Fig. Handset Control Panel

1. Backrest Adjustment Buttons (up/down)
2. Autocontour Adjustment Buttons (up/down)
3. Flashlight Button
4. Bed Height Adjustment Lock LED Indicator (ON - locked)
5. Bed Height Adjustment Buttons (up/down + Extra Low Position for Essenza 300 with Lateral Tilt)
6. Thighrest Adjustment Buttons (up/down)
7. Thighrest Adjustment Lock LED Indicator (ON - locked)
8. Backrest Adjustment Lock LED Indicator (ON - locked)

To switch on the flashlight:
► Press and hold Flashlight button.
Flashlight emits light as long as the Flashlight button is pressed.

To disable bed positioning functions for patient, use:

► Attendant Control Panel for Essenza 300 with Lateral Tilt
► Attendant Control Panel for Essenza 300
► Siderail Control Panel for Essenza 300 with Lateral Tilt
► Siderail Control Panel for Essenza 300

12.6 Patient Control Panel

Patient is allowed to use the Patient Control Panel only if hospital personnel had assessed that the patient´s physical and psychological state is in accordance with use of this control element and only if the hospital personnel had trained the patient in accordance with these instructions for use.
The use of the Patient Control Panel is described in the chapter Bed Positioning (see „13 Bed Positioning“ on the page 81).

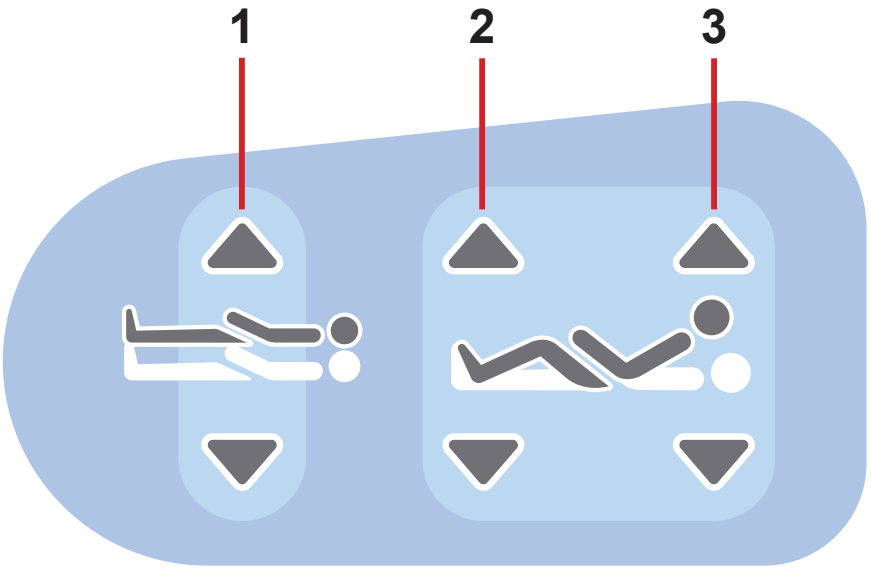


Fig. Patient Control Panel

1. Bed Height Adjustment Buttons (up/down + Extra Low Position for Essenza 300 with Lateral Tilt)
2. Thighrest Adjustment Buttons (up/down)
3. Backrest Adjustment Buttons (up/down)

To disable bed positioning functions for patient, use:

► Attendant Control Panel for Essenza 300 with Lateral Tilt
► Attendant Control Panel for Essenza 300
► Siderail Control Panel for Essenza 300 with Lateral Tilt
► Siderail Control Panel for Essenza 300

12.7 Bed Height Foot Control

The foot control is optional and allows setting the bed height with one’s feet.
Ensure that exclusively trained nursing staff operates the Bed Height Foot Control.
The use of Bed Height Foot Control is described in the chapter Bed Positioning (see „13 Bed Positioning“ on the page 81).

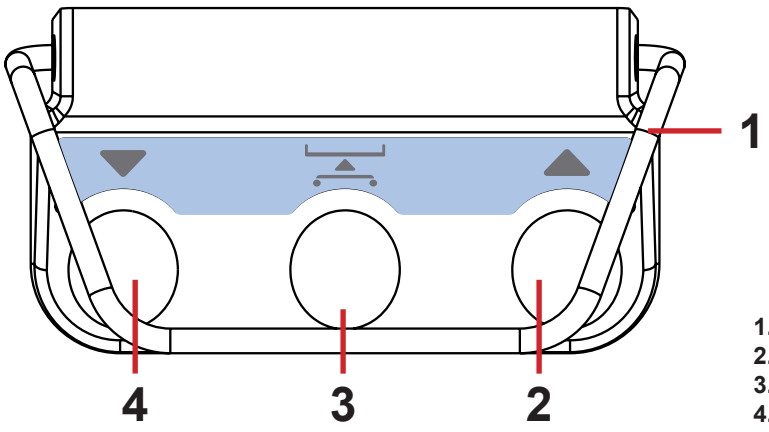


Fig. Bed Height Foot Control

Press the selected pedal twice in 2 seconds:
► Bed Height Foot Control is activated for 30s after this procedure.

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

12.8 Lateral Tilt Foot Control

The foot control is optional and allows setting the Lateral Tilt of the bed with one's feet.
Ensure that exclusively trained nursing staff operates the Lateral Tilt Foot Control.
The use of Lateral Tilt Foot Control is described in the chapter Bed Positioning (see „13 Bed Positioning“ on the page 81).

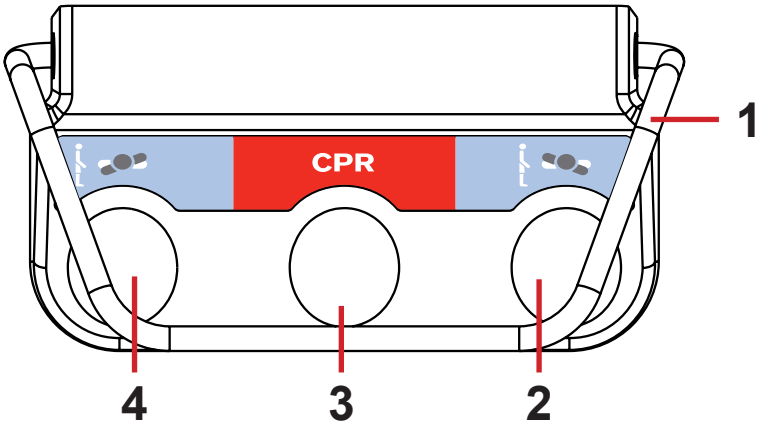


Fig. Lateral Tilt Foot Control

Press the selected pedal twice in 2 seconds:
► Lateral Tilt Foot Control is activated for 30s after this procedure.

1. **Protection Frame against Unwanted Activation**
2. **Tilt Right Pedal**
3. **Emergency CPR Position Pedal**
4. **Tilt Left Pedal**

12.9 Mobi Pad

Patient is allowed to use the Mobi Pad only if hospital personnel had assessed that the patient´s physical and psychological state is in accordance with use of this control element and only if the hospital personnel had trained the patient in accordance with these instructions for use.
The use of the Mobi Pad is described in the chapter Bed Positioning (see „13 Bed Positioning“ on the page 81).

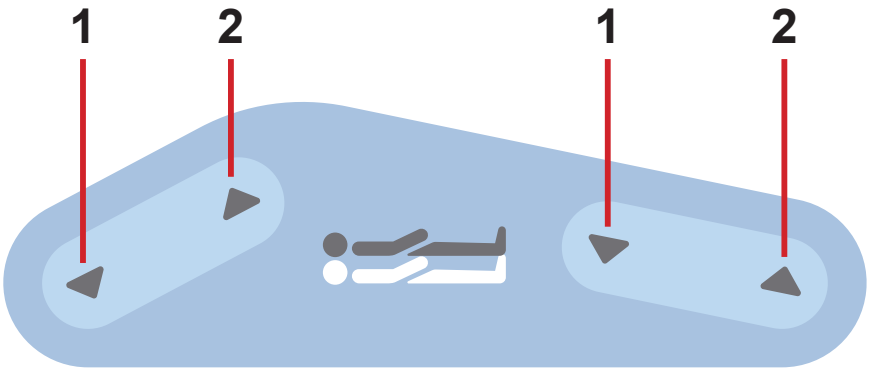


Fig. Mobi Pad

1. **Mattress Support Platform Down (+ Extra Low Position for Essenza 300 with Lateral Tilt)**
2. **Mattress Support Platform Up**

To disable bed positioning functions for patient, use:

► Attendant Control Panel for Essenza 300 with Lateral Tilt
► Attendant Control Panel for Essenza 300
► Siderail Control Panel for Essenza 300 with Lateral Tilt
► Siderail Control Panel for Essenza 300

15.2 Urinary Bag Holders in Plastic Siderails

CAUTION!
Risk of collision between Urinary Bags suspended from the Urinary Bag Holders and bed undercarriage or floor!
► Take extra care during lowering to the Extra Low Position if an Urinary Bag is suspended from an Urinary Bag Holder!

Eyelets in the Plastic Siderails are intended for hanging Urinary Bags.
Maximum Load of a compatible Urinary Bag is 3 kg.
A Plastic siderail should be lifted in up position if an Urinary Bag is suspeneded from an Urinary Bag Holder.

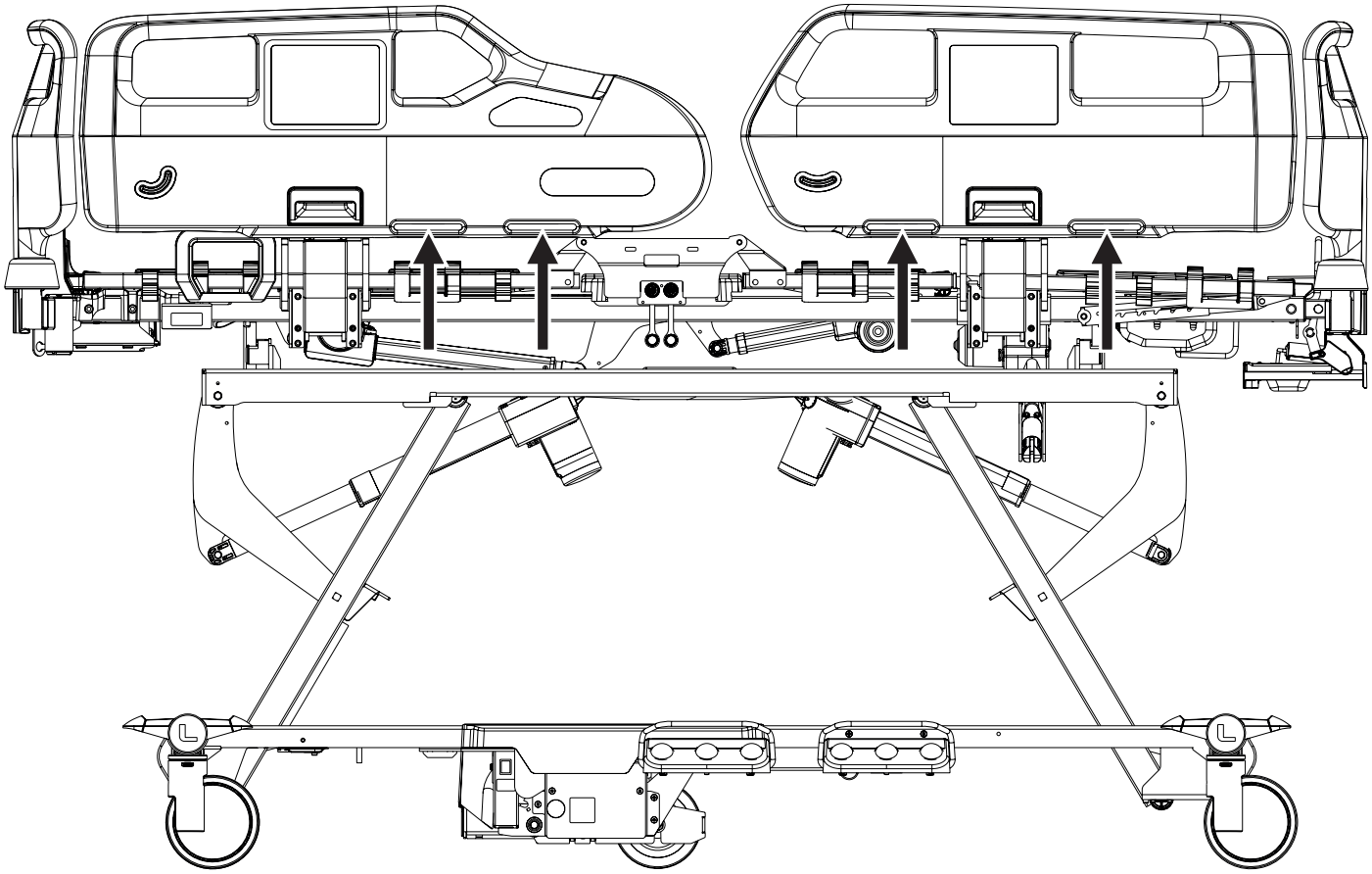


Fig. Urinary Bag Holders in Plastic Sideriails

15.4 Safe Height Visual Signalling

Green light emitted under the bed seat section is intended for the safe height visual signalling.
The green light cannot be activated when the bed is not connected to the mains power.
The green light is emitted during the lowering of the mattress support platform to the Extra Low Position after the stopping of the mattress support platform in the standard low bed position.

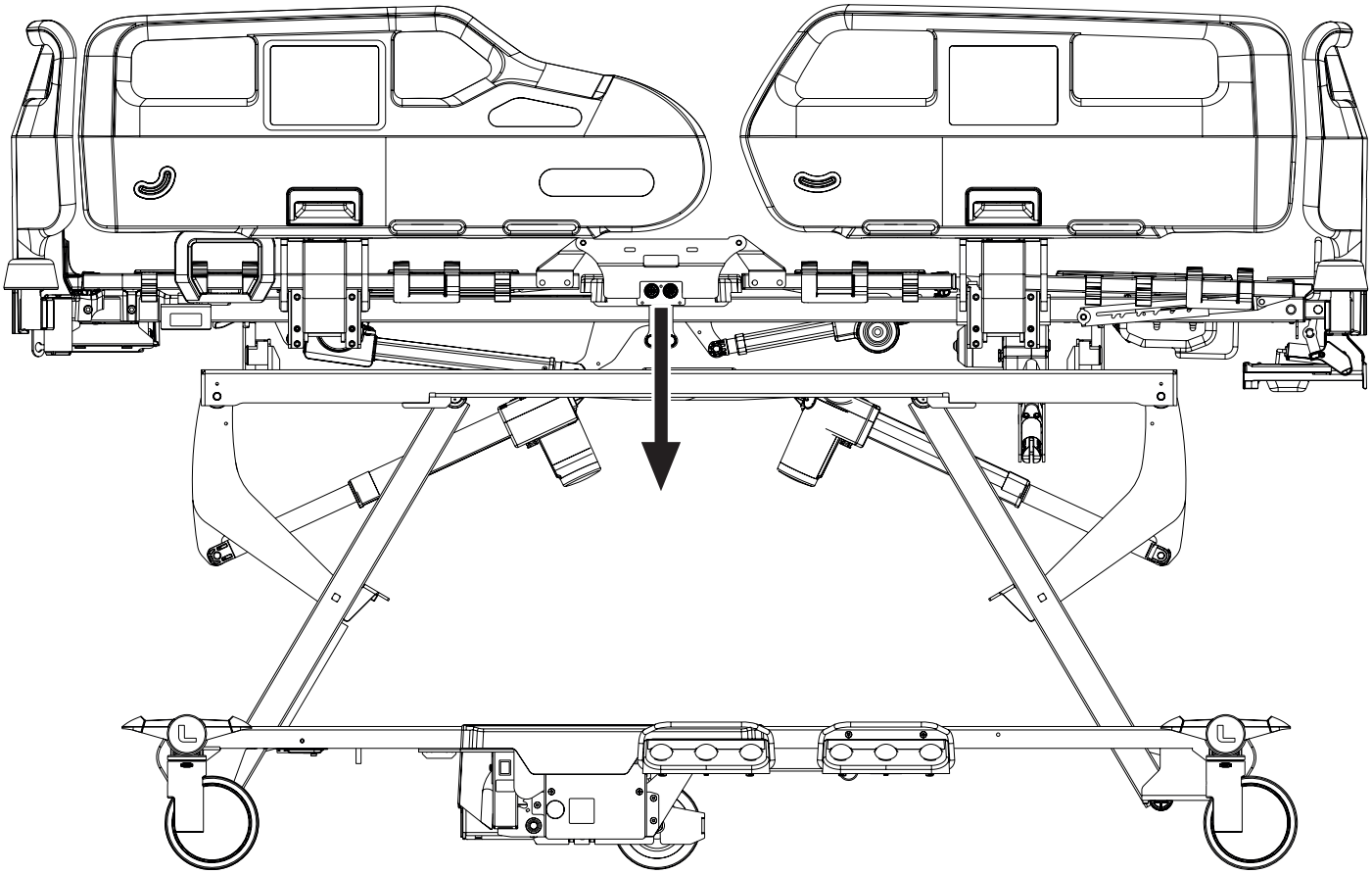


Fig. Green light source on the Essenza 300 medical bed

15.12.6 Visual Signalling

Status	Visual Signalling
Activated EasyDrive Control Panel	
Fully Charged Accumulator (100%)	
Charged Accumulator (75%)	
Half-charged Accumulator (50%)	
Discharged Accumulator (30%)	
Critically Discharged Accumulator (20%)	
Overheated System	
Multiple Press of Buttons during Charging	
Indication of Charging	

15.14 X-ray cassette Holder

WARNING!
Risk of x-ray image misinterpretation due to its deterioration!
► Ensure the distance between a lying patient and an inserted compatible x-ray cassette is not increased unnecessarily. A too much thick mattress or combination of mattresses could cause that undesirable state.
► Ensure there are no added x-ray contrast materials between patient and x-ray cassette. There are no x-ray contrast materials in the place of X-ray cassette Holder.
► Ensure a compatible x-ray cassette is secured correctly in the X-ray cassette Holder!
► Take x-ray images when the bed is braked and no part of the bed is forced to move or the mattress is not forced to move considerably!

CAUTION!
Risk of damaging a compatible x-ray cassette!
► Do not leave any x-ray cassette in the X-Ray Cassette Holder if x-ray examination should not be performed immediately.
► Maximum dimensions of any x-ray cassette intended for this adjustable X-Ray Cassette Holder are 44 cm x 47 cm x 2,3 cm!

CAUTION!
Risk of material damage or trapping due to collision!
► Avoid any collision of the protruding X-ray cassette Holder with Head Board during Backrest adjustment!
► Avoid risk of getting your hand trapped between Head Board and the blue handle of the X-ray cassette Holder!

X-ray cassette Holder is compatible only with X-ray ready Backrest of the Essenza 300 bed.
The X-ray cassette Holder is intended for a cassette needed for the x-ray examinations of patients while they are lying on a mattress.
The X-ray examination via this X-ray cassette Holder inserted correctly into the bed is intended for indicative results only. More accurate X-ray images must be taken by the other clinical means.
No touch to patient is needed for the X-ray examination via this X-ray cassette Holder.
The X-ray cassette Holder is accesible from the bed head end when the Head Board is removed.
The X-ray cassette Holder can be adjusted for the x-ray cassettes with length from 30 cm to 47 cm.

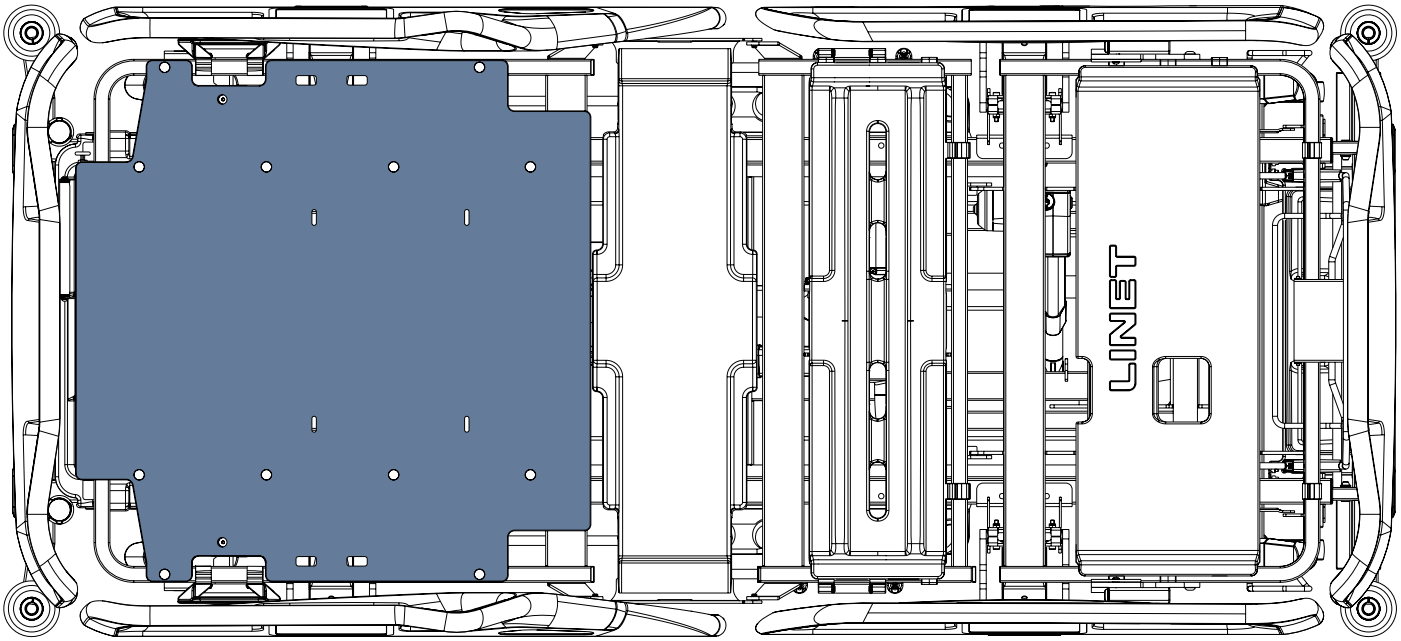


Fig. X-ray ready Backrest with HPL cover

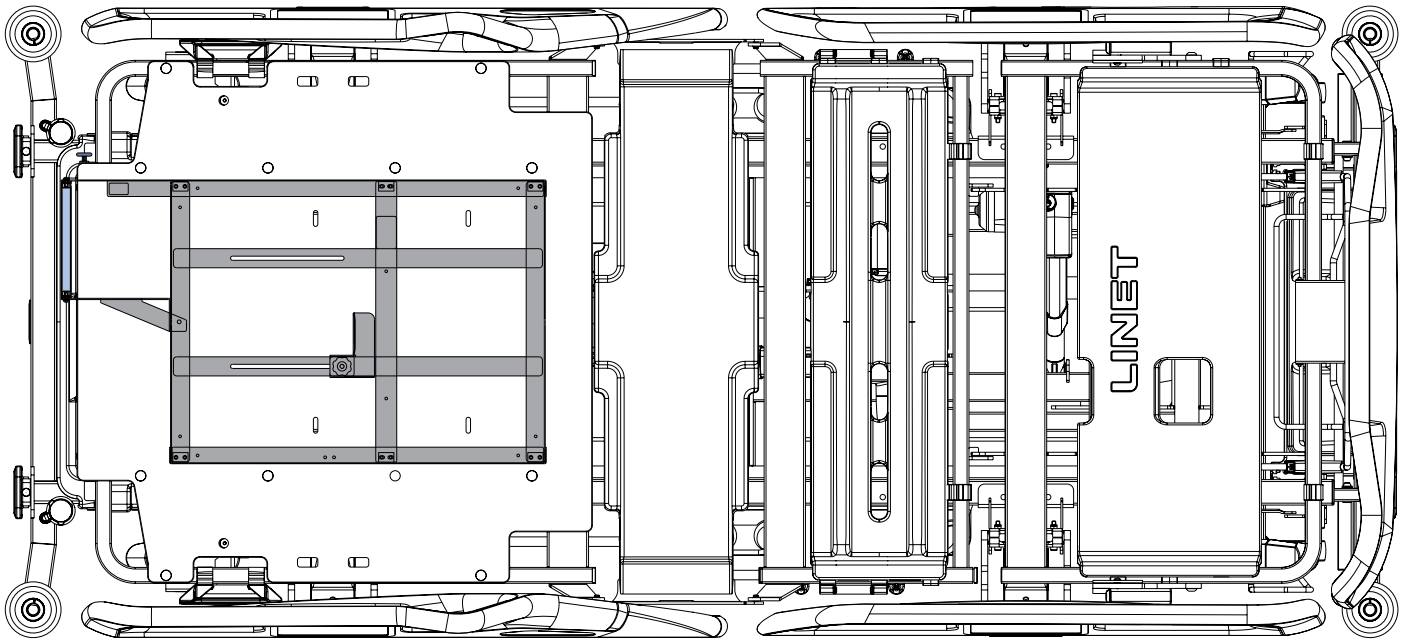
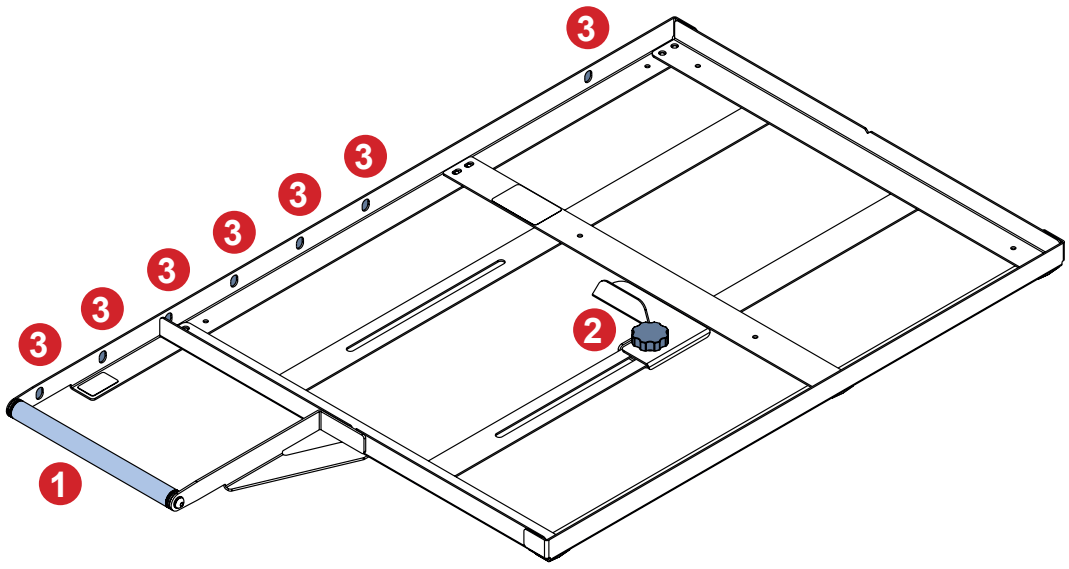


Fig. Position of the X-ray cassette Holder inserted to the Backrest

To take x-ray image of a patient by means of the X-ray cassette Holder:

1. Remove Head Board and leave it removed during whole time of taking an x-ray image.
2. Keep patient in supine position on the flat mattress support platform.
3. Ensure a compatible x-ray cassette in the X-ray cassette Holder can reach a body part to be x-rayed.
4. Follow the marks on the inner sides of Head Board and Foot Board to set a patient to the middle of the bed. If an x-ray image will be taken with lifted Backrest, place patient's hips between Backrest and Seat Section in accordance with the Ergoframe effect of the mattress support platform.
5. Pull out the X-ray cassette Holder at Backrest head end by blue handle.
6. Keep the X-ray cassette Holder fixed by safety pin to avoid falling of the holder.
7. Release the yellow fixative element with a rossette screw and place a compatible x-ray cassette into the X-ray cassette Holder.
8. Set the yellow fixative element to the size of the x-ray cassette and tight the rossette screw.
9. Insert the X-ray cassette Holder back to the Backrest. You can position the X-ray cassette Holder by the safety pin adjustment or slide it as a whole into the Backrest.
10. Lift Backrest if it is required by radiologist.
11. Perform the x-ray examination.
12. Only remove the x-ray cassette from the X-ray cassette Holder in the flat Backrest position (0°).
13. Place Head Board back into the bed after the taking of an x-ray image.



1. Blue handle of the X-ray cassette Holder
2. Rossette screw with yellow fixative element
3. Seven positions where the X-ray cassette Holder can be fixed by safety pin

Fig. Adjustable X-ray cassette Holder

16.1 Passive Mattress

Compatible Passive Mattresses are equipped with straps intended for fixing mattress on the Mattress support platform.
Symbols on the mattress wash label serve as instructions for cleaning the mattress cover.

16.2 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.
► Fix mattress on the Mattress support platform with straps.

16.3 Integrated Mattress (Air2Care IN)

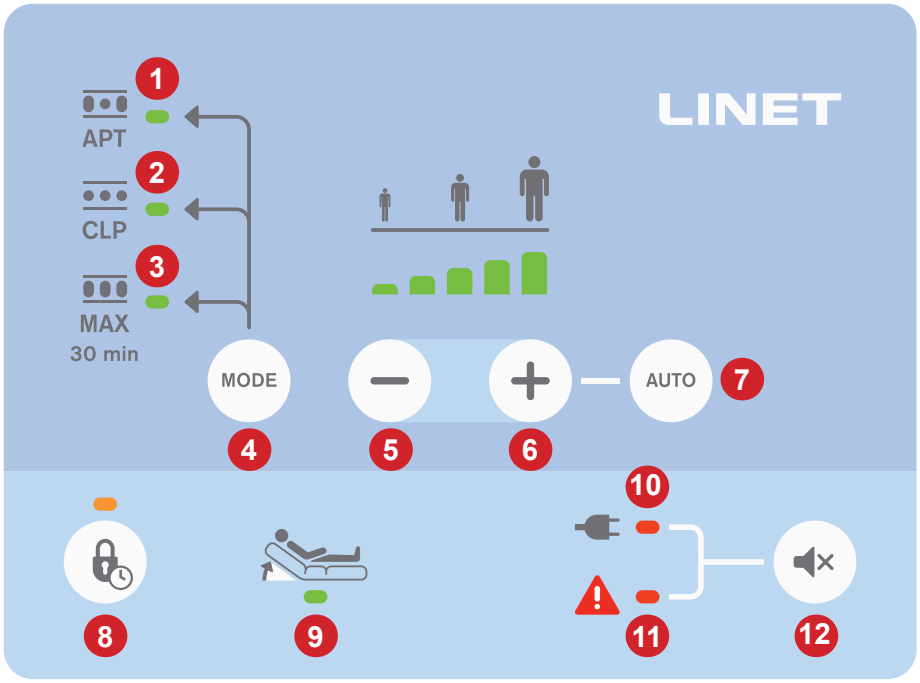
WARNING!
Risk of material damage due to incompatibility!
► Ensure the Air2Care IN compressor (integrated SCU) is compatible with local power supply each time the SCU was maintained or replaced.
Service technician is responsible for meeting this requirement.

WARNING!
Risk of injury due to incorrect use!
► Follow instructions for use of compatible integrated mattress system carefully!

WARNING!
Risk of injury due to incorrect use!
► When the Plastic Siderails are lowered, you may need to lift the mattress to access the CPR valve fully.

CAUTION!
Risk of material damage due to an incorrect fixation of compatible integrated 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!

CAUTION!
Material damage due to incorrect installation of SCU!
► If the SCU does not come factory-fitted, have it installed by a service engineer authorised by LINET ®.



1. APT Mode LED Indicator
2. CLP Mode LED Indicator
3. MAX Mode LED Indicator
4. MODE Button
5. Decrease Button (MINUS) for Manual Pressure Settings
6. Increase Button (PLUS) for Manual Pressure Settings
7. AUTO Pressure Setting Button
8. Control Panel Lock Button
9. Fowler Boost LED Indicator
10. Mains Power Fault LED Indicator
11. System Error LED Indicator
12. Mute Button

Fig. Control Panel of the Integrated Mattress (keyboard)

16.3.1 Installation of the 3 Air Hoses to the SCU

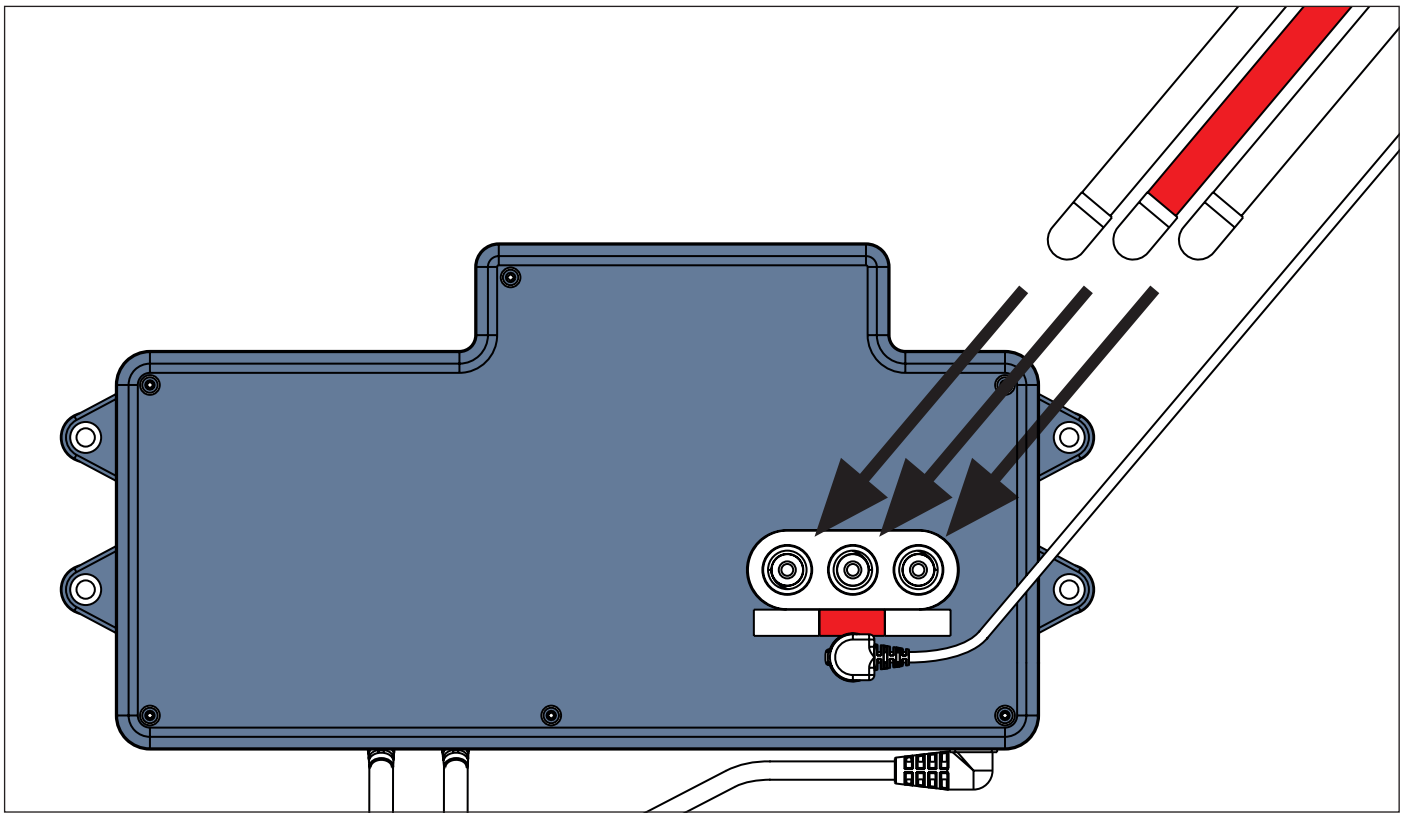


Fig. Installation of the 3 Air Hoses to the SCU

Connect 3 Air Pipes to SCU when observing colour code.
Red Air Hose must be connected between 2 white Air Hoses that are interchangeable.

16.4 Cleaning of Mattress

CAUTION!
Incorrect cleaning/disinfection can damage the mattress!
- ► 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 by qualified hygiene experts only.
- ► The surface of the mattress should not be exposed to liquids for a long time.

16.4.1 General Guidance

For safe and gentle cleaning:

- ► Do not use any strong acids or alkalines, (optimum pH range 6 – 8. Do not exceed pH of 9).
- ► Only use detergents that are suitable for cleaning medical equipment.
- ► Do not use abrasive powders, steel wool, or other material and cleaning agents that might damage the mattress. Do not scrub mattress surface.
- ► 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.).
- ► Use only hospital-approved cleaners and observe local directives concerning infection control.
- ► Always rinse with water after cleaning and dry thoroughly before use.
- ► Observe local directives concerning infection control.

Mattress parts to be cleaned	Recommended Cleaning Agents (General Cleaning
Top Cover, Bottom Cover, Protect Cover	Standard hospital detergents, Alcohol or Quaternary Ammonium based disinfectants, Chlorine based disinfectants containing up to 0,1% Chlorine, followed by rinsing with water and drying thoroughly before use.
	Decontamination: Blood spills/Clostridium difficile etc
	Chlorine based disinfectants containing up to 0,1% Chlorine. Dwell time on surface at 0,1% of 5 minutes, followed by rinsing with water and drying thoroughly before use.
Mattress Core	**Do not clean!**

Due to the variety of laundry equipment, chemicals and conditions in use, customers should satisfy themselves through pretesting. It is essential that cover be thoroughly rinsed and dried after all cleaning procedures and before storage or reuse. Wet or damp PU surfaces are more prone to mechanical damage than when dry.

As stated above, after application of a suitable cleaner, the surface must be rinsed with water and dried before use. (Even if the cleaner instructions say that this is not required). This prevents a build-up of chemicals on the mattress surface which could be reactivated during use and affect biocompatibility.

NOTE Continued use of high concentration, chlorine-based disinfectants may significantly reduce the performance and the working life of a coated material.

NOTE If disinfecting is not required, cleaning with soap and water should be enough to remove dirt stains.

NOTE Cleaning and disinfecting products based on solvent, bleach, abrasives or very high (over 70%) alcohol concentrations can damage this product.

Type of Cleaning	Parts to be cleaned
Routine Cleaning and Disinfection	external of mattress cover
Full Cleaning and Disinfection	external of mattress cover

16.4.2 Routine Cleaning and Disinfection

Cleaning the mattress:

► Check mattress cover top for any signs of damage or for liquid ingress.
► Replace or repair and completely disinfect mattress cover top if damaged. Also check if the mattress core is not contaminated. In case of core contamination, do not use the mattress and dispose the core ecologically.
► Leave mattress cover on mattress.
► Clean with water with cleaning detergent.
► Rinse mattress with cold water.
► Let mattress air dry or wipe dry.
► Wipe mattress with disinfectant and rinse mattress with cold water.
► Let mattress dry or wipe dry.

16.4.3 Complete Cleaning and Disinfection

Cleaning Top/Bottom Cover:

Use standard hospital detergents, Alcohol based cleaners or Quaternary Ammonium based disinfectants. Suitable Chlorine based cleaners can be used at a concentration of 0,05%. Stronger concentrations of chlorine can be used if required, (up to 0,1%), with a maximum dwell time of five minutes followed by rinsing with water and drying thoroughly before use.

After application of a suitable cleaner, the surface should be rinsed with water and dried before use. (Even if the cleaner instructions say that this is not required). This prevents a build up of chemicals on the mattress surface that could reactivate during use and affect biocompatibility.

Cleaning Protect Cover:

Use standard hospital detergents, Alcohol based cleaners or Quaternary Ammonium based disinfectants. Suitable Chlorine based cleaners can be used at a concentration of 0,05%. Stronger concentrations of chlorine can be used if required, (up to 0,1%), with a maximum dwell time of five minutes followed by rinsing with water and drying thoroughly before use.

After application of a suitable cleaner, the surface should be rinsed with water and dried before use. (Even if the cleaner instructions say that this is not required). This prevents a build up of chemicals under the Top/Bottom Cover that could reactivate during use and affect biocompatibility.

Cleaning the mattress:

► Check mattress cover top and base for any signs of damage.
► Replace or repair and completely disinfect mattress cover top and base if damaged. Also check if the mattress core is not contaminated. In case of core contamination, do not use the mattress and dispose the core ecologically.
► Leave mattress cover on mattress.
► Clean with water with cleaning detergent.
► Rinse mattress with cold water.
► Let mattress air dry or wipe dry.
► Wipe mattress with disinfectant.
► Rinse mattress with cold water.
► Let mattress air dry or wipe dry.

Machine washing of the top/base mattress covers:

► Remove cover.
► If machine washing mattress top/base covers, the temperature should be raised during the wash cycle, to 71°C/160° F, for 3 - 10 minutes, using hospital approved detergents and rinsing agents. The temperature could be raised to 95°C in the case of Air2Care IN mattresses.
► Dry cover in tumble dryer at low temperature.

NOTE Maximum wash temperature could be 75°C for mattresses other than Air2Care IN mattresses but such a temperature reduces lifetime period of the covers.

16.4.4 Mattress Core

The entire core of the mattress does not require any major cleaning. The core does not need disinfection. Once a month it is recommended to ventilate the mattress core (remove the mattress cover and leave the mattress core on ventilated area for 12 -24 hours). The mattress core cannot be washed by water or by disinfection.

18 Cleaning and Disinfection

WARNING!
Risk of injury due to incorrect preparation!
- ► **Ensure pedals will not be pressed accidentally during cleaning.**
- ► **Ensure the Essenza 300 is disconnected from the mains before cleaning the Essenza 300.**

CAUTION!
Material damage due to incorrect cleaning/disinfection!
- ► Do not use washing tunnels to clean the bed.
- ► 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.
- ► **Check if used cleaning agents and disinfectants are compatible with materials that the product consists of! For information see the following table.**

BED COMPONENTS THAT ARE INTENDED TO BE CLEANED **Do not clean what is not mentioned in this column!**	**MATERIALS (SURFACES OF THE MENTIONED BED COMPONENTS)** **Competent user is responsible for check if used cleaning agents and disinfectants are compatible with mentioned materials!**		
Head board and Foot board	**plastic version**: Polypropylene (PP)	**aluminium version with HPL board**: Oxidized aluminium alloy + Lacquered steel + Stainless steel + High Pressure Laminate (HPL) + Polyamide (PA)	
Plastic Head siderails and Foot siderails / Telescopic Head siderails and Foot siderails / Single collapsible siderails	**plastic siderails**: Polypropylene (PP) + Polyamide (PA) + Lacquered steel + Acrylonitrile butadiene styrene (ABS)	**telescopic siderails**: Oxidized aluminium alloy + Lacquered aluminium (Al) + Acrylonitrile butadiene styrene (ABS) + Polyamide (PA) + Polypropylene (PP) + Polyoxymethylene (POM) + Stainless steel	**collapsible siderails**: Lacquered steel + Polyamide (PA) + Polyoxymethylene (POM) + Acrylonitrile butadiene styrene (ABS) + Polyvinyl chloride (PVC)
Mattress support platform covers on Backrest, Thighrest and Calfrest	Polypropylene (PP)		
Seat section cover	Acrylonitrile butadiene styrene (ABS)		
Castors	Polyurethane (PUR) + Polyamide (PA) + Polypropylene (PP)		
Castor control levers	Polyamide (PA6)		
Frame of the mattress support platform	Polyamide (PA) + Lacquered steel		
Undercarriage	Lacquered steel		
Corner bumpers	Polypropylene (PP)		
Keyboards (Attendant Control Panel, Handset Control Panel, control elements integrated in the siderails)	Acrylonitrile butadiene styrene (ABS) + Polyoxymethylene (POM) + Polyethylene terephthalate (PET)		
CPR levers	Polyamide (PA6)		
Labels	Polyethylene terephthalate (PET)		
Accessory rails	Polyoxymethylene (POM) + Lacquered steel		
Actuator covers	Polyamide (PA6) + Aluminium (Al)		
Linen Shelf	**Plastic Linen Shelf**: Polypropylene (PP)	**Telescopic Linen Shelf**: Oxidized aluminium alloy + Zinc-coated steel + Stainless steel + Acrylonitrile butadiene styrene (ABS) + Polyamide (PA) + Polyoxymethylene (POM)	

22 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 included in the instructions for use.

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

► Do not continue to use the Essenza 300 bed.

The warranty on this product and its conditions are dependent on the agreement between the buyer and the seller.

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.

23 Standards and Regulations

23.1 Essenza 300

Apllied norms are stated on Declaration of Conformity.

23.2 Manufacturer

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)**

AIR2CARE
Integrated

The compressor of the mattress is integrated into the Essenza bedframe, along with an easy to use control panel available on the bed siderails.

Integrated solution

Integrated compressor

Integrated mattress control panel

AIR2CARE
Mattress Replacement

Alternating Air2Care mattress replacement with an external compressor can be placed in any bed frames with compatible dimensions.

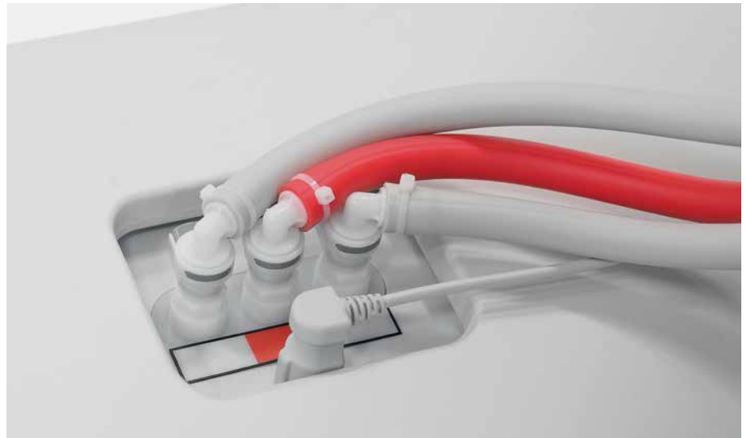
Mattress replacement

System Control Unit (external compressor)

SOLUTION

An integrated Air2Care compressor reduces vibration for better patient comfort.[11]

Integrated compressor



The compressor reduces vibration by more than 50% compared with mattress replacement.[11]

Integrated solution

Integrated compressor
meets the night noise requirements of WHO[12]

Support for Heavier Patients

The A2C mattresses range allows placing plus sized patients thanks to models with a high maximum patient weight of 250 kg and extended dimensions of the mattress.

Mattress replacement

NOTE: maximum patient weight up to the 250 kg limit with the size of 100 × 200 cm.

Cycle Time Options of 10/15/20/25 Minutes

Choice of appropriate cycle time based on the patient's condition and individual preference

Mattress replacement

Availability of Prone Mode

It is possible to prone patients on the Air2Care 6 and 8 mattresses due to the self-sealing valves that allow the individual cells to be deflated.

NOTE: Always check manually for bottoming out.

Minimized Errors with Safety Lock Button

- The Safety Lock Button protects against accidental setting changes.
- Activate or deactivate the functions control using the Safety Lock button, located at the control panel.

SIMPLIFY CAREGIVER PROCEDURES

CHALLENGE

— 41% of caregivers suffer from lack of time [13]

— 34% of the working time nurses need to multitask [14]

— Narrow corridors and small space elevators inside hospital beds limit patient transport on the bed

SOLUTION

Integrated mattress control panel, Easy Smart System, and Fast Access CPR features reduce complexity of daily caregiver's procedures.

Integrated mattress control panel

In the integrated Air2Care easy-of-use mattress control panel is available on the bed siderails.

Integrated solution

User-friendly interface

All functions and settings can be set with a well-arranged control panel for the System Control Unit (SCU). Easy access to MAX, Alternating and Constant Low Pressure Modes and to use Plug & Play system.

Automatic Pressure Setting with the Easy Smart System

At the press of a button, the mattress will automatically and continuously adjust to the patient's individual size, weight and position. Manual pressure adjustment is available to suit patient comfort.

Patient is Positioned in Bed

Patient is positioned in bed.

System Control Unit (SCU)

The system individually evaluates the pressure for the patient.

Mattress

The pressure in the mattress corresponds to the patient's individual parameters.

Fast Access to Immediate CPR

With the simple turning of a valve the mattress deflates providing a firm surface for chest compressions.

Easy Patient Transportation

Transport Mode can provide constant low pressure for 8 hours while disconnected from the power or System Control Unit (SCU).

HOSPITAL OPERATION EFFICIENCY

CHALLENGE

— Number of caregivers required to transfer patients on to a stand-alone mattress

— Sustainable and Cost-effective equipment maintenance

— Damaged mattresses are common in hospitals and potentially place patients at risk.

SOLUTION

Easy and safe maintenance of the Air2Care mattress brought by a complete integrated solution and cells construction.

Complete integrated solution

Easy and Cost-Effective Maintenance

Air2Care integrated helps to save space due to the absence of the external compressor and reduces the risk of cable damage while transporting.

The removable cells with self-sealing valves enable quick and easy replacement of damaged cells without even having to switch off the system.

PREVENTION OF HOSPITAL AQUIRED INFECTIONS

CHALLENGE

— HAIs are the most deadly and costly adverse event, representing up to 6% of public hospital budgets [15]

— Cleaning and checking mattress inside and cover on discharge or weekly [16]

3.1–4.6 milion people acquire a healthcare-associated infection (HAI) in acute care hospitals in Europe every year [15]

SOLUTION

The cell construction makes it possible to completely remove the individual cells for cleaning and decontamination.

Infection control

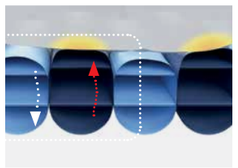
Self-sealing valves help maintain pressure so the mattress stays inflated even if a cell is removed for cleaning or repair.

Individual cells can be removed so that the entire mattress may be easily cleaned.

The mattress cover is vapor permeable and water resistant. The zipper is covered to prevent the ingress of dirt or fluids.

KEY FEATURES OVERVIEW

2-cell alternating system provides intermittent pressure reduction.



Integrated compressor provides easy and time-saving maintenance.

Fowler Boost minimizes the risk of bottoming out.

Easy Smart System enables automatic pressure setting.

Individually removable cells provide easy and cost-effective maintenance.

Transport mode supports easy patient transportation.

4 cycle time options offer a wide choice for patient comfort.

CPR solution with fast access.

Safety Lock Button helps to minimize errors.

Individual cells deflation enables Prone positioning and supports localized pressure offload.

Support for Heavier patients with a limit of up to 250 kg.

24-hour care supported by Air2Care sitting cushion.

TECHNICAL SPECIFICATION

MODELS	AIR2CARE 8	AIR2CARE 6	AIR2CARE 5	AIR2CARE 4
Mattress replacement				
Integrated solution				

FEATURES

Air Decks	Air+Air	Air+Air	Overlay	Overlay Seating Cushion
Modes	Alternate, Max, Constant Low Pressure	Alternate, Max, Constant Low Pressure	Alternate, Max, Constant Low Pressure	Alternate, Max, Constant Low Pressure
Transport mode	Yes	Yes	Yes	Yes
Cycle Time*	10, 15, 20, 25 min	10, 15, 20, 25 min	10, 15, 20, 25 min	10, 15, 20 min
Fowler Boost	Single point	Single point	Single point	—

MATTRESS DIMENSION

Mattress replacement (cm)	200 x 86 x 20	200 x 86 x 15	200 x 86 x 12,5	48 x 46 x 10
	200 x 100 x 20	200 x 90 x 15		
	200 x 120 x 20	210 x 86 x 15		
	200 x 140 x 20	210 x 90 x 15		
	210 x 86 x 20	220 x 86 x 15		
Integrated mattress (cm)	200 x 86 x 20	200 x 86 x 15		

ADDITIONAL PARAMETERS

Maximum patient weight (kg)	180/250*	160	140	130
Minimum patient weight (kg)	40	40	40	40
Cover	Waterproof and Vapor Permeable, Stretch Cover	Waterproof and Vapor Permeable, Stretch Cover	Waterproof and Vapor Permeable, Stretch Cover	Waterproof and Vapor Permeable, Stretch Cover
Zipper	360°	360°	360°	270°
Handles	Yes	Yes	Yes	—

* *Related to mattress replacement only*

3.3 Linear lifting units

The purpose of the lifting units **is to adjust the height of the bed platform.** The motors are equipped with **limit switches** to indicate the end position. For safety reasons, the upper end switch is doubled up. If the first upper end switch is damaged, the second one is activated to stop the motor.

Additionally, the motors are equipped with a switch for an "**EXTRA LOW**" position of the bed, i.e. when the bed is being lowered, it first stops in the maximum "extra low" position and only after another press of the button on the controller it starts moving to the lower "**EXTRA LOW**" position.

They are connected to the construction using two pins and secured with starlock washers.

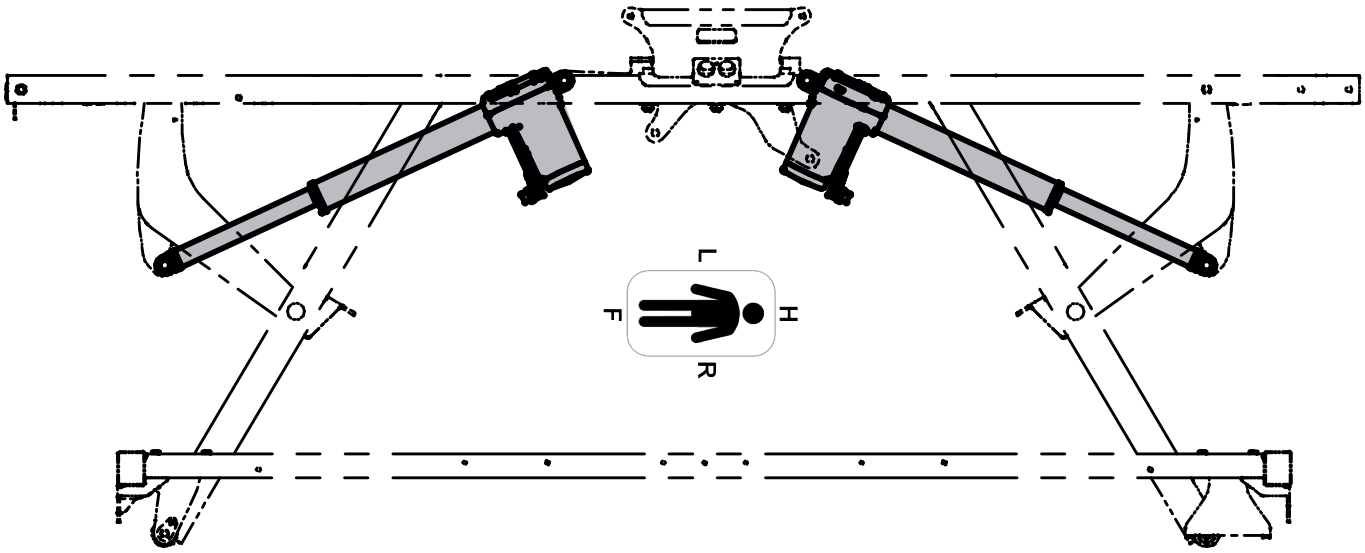


Fig. 7 *Position of linear lifting units*

The lifting units are connected to the control unit via a motor cable harness *(see chapter "3.5 Connecting lifting units and mattress platform actuators to the control unit")*

Technical parameters

Parameter	Values
Max. load (push)	6 kN
Max load (pull)	3 kN
Nominal voltage	24 V DC
Length	430 / 640 mm

3.4 Mattress platform linear actuators

ESSENZA 300 without lateral tilt

Essenza 300 is equipped with **2 types of linear actuators** for positioning the mattress platform.

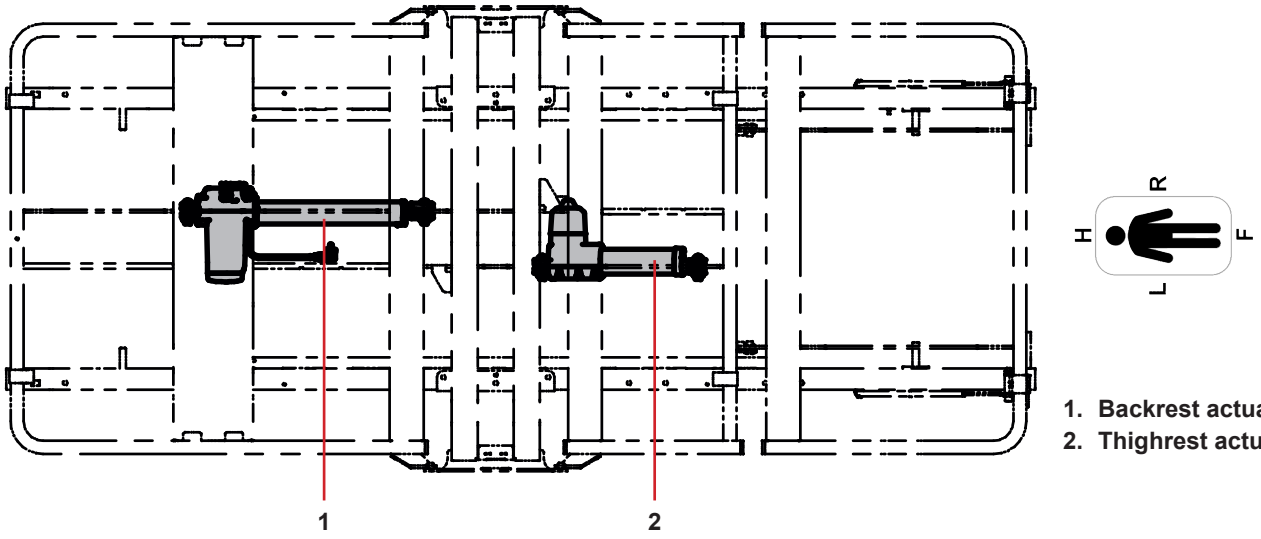


Fig. 8 *Linear actuators - Essenza 300 (bottom view)*

ESSENZA 300 with lateral tilt

Essenza 300 with lateral tilt is equipped with **3 types of linear actuators** for positioning the mattress platform.

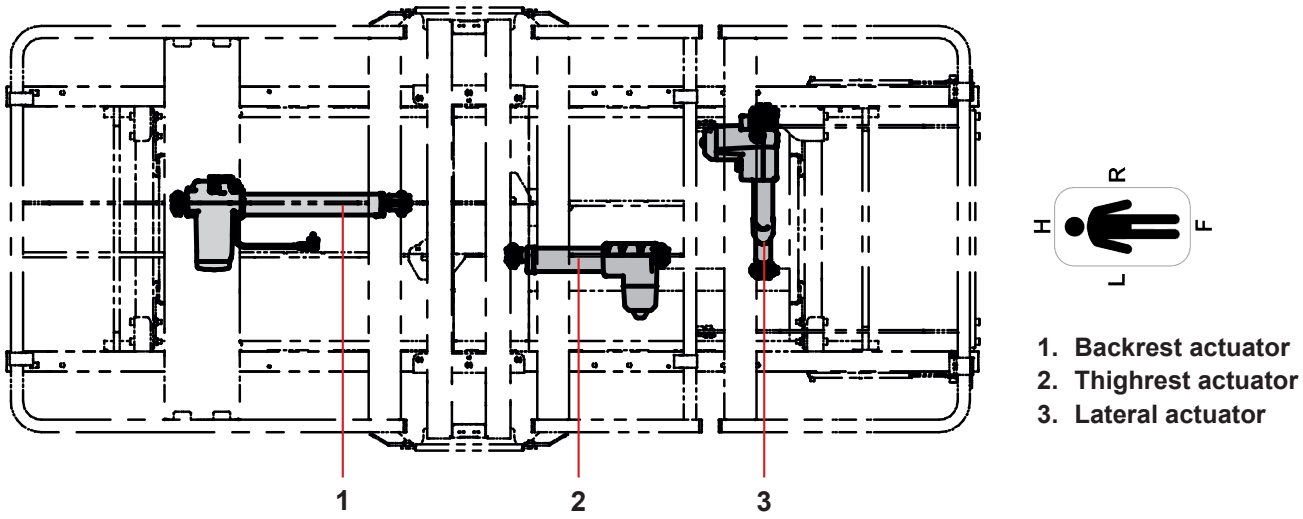
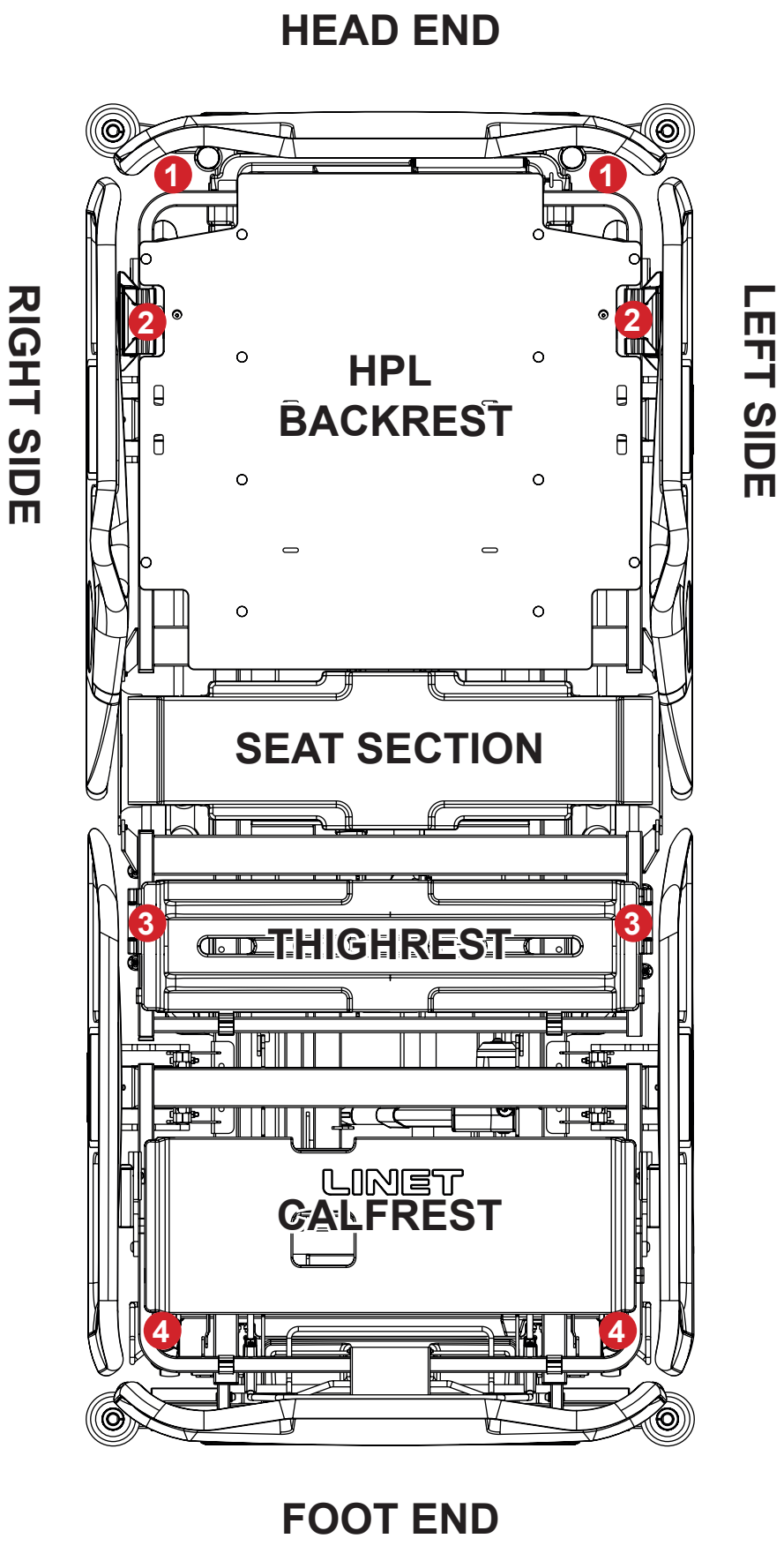


Fig. 9 *Linear actuators - Essenza 300 with lateral tilt (bottom view)*

The mattress platform linear actuators are connected to the control unit via a cable harness (see chapter *"3.5 Connecting lifting units and mattress platform actuators to the control unit"*)



1. Bushings for Lifting Pole or Infusion Stand
2. Backrest Handles / Backrest Mattress Holders
3. Patient Restraint Points
4. Calfrest Handles / Calfrest Mattress Holders

Fig. 4-part Mattress Support Platform with Plastic Siderails and X-ray ready Backrest

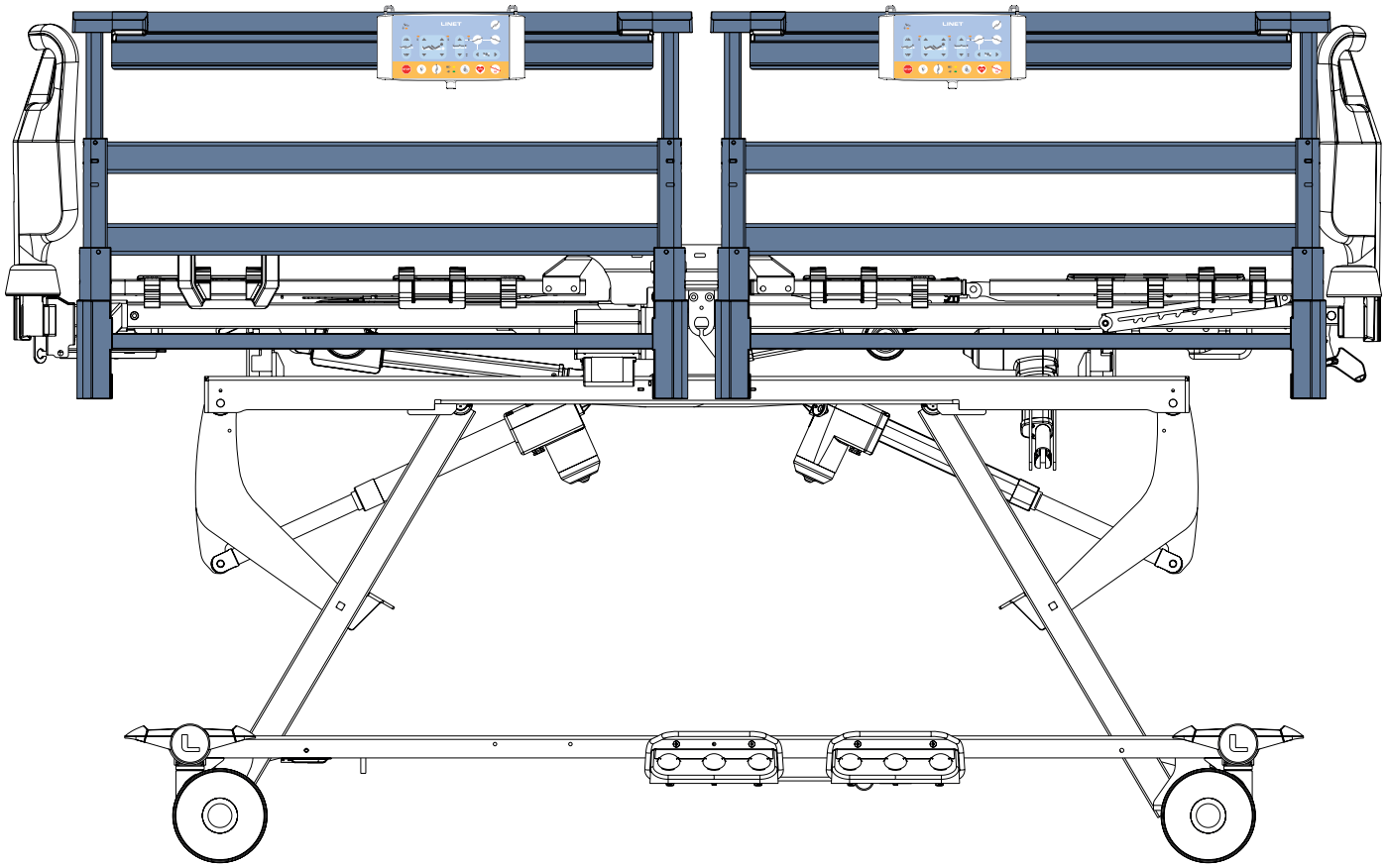


Fig. Correct positions of the Attendant Control Panel on the Telescopic Siderails

11.4 Castor Control

CAUTION!
Risk of material damage due to incorrect transport and involuntary movement!

- ► Prior to transport, ensure that the bed is disconnected from the mains.
- ► Hang the power supply cord on the transport hook on the Head Board before bed transport.
- ► Ensure the castors are braked prior to putting into service, removal from service and maintenance.
- ► Ensure the castors are braked when the bed is occupied.
- ► Ensure the castors are braked when the bed should not move.
- ► Ensure the castors are braked before bed positioning.
- ► Have the bed transported exclusively by nursing personnel.
- ► Observe the path for any obstacles and avoid collisions and possible damages to any bed parts on the undercarriage.

The bed is equipped with central castor control and brake system.
A directional castor can be situated at bed head end or bed foot end depending on bed configuration.
The castor control levers are located in the four corners of the undercarriage.

Castor Configurations of the Essenza 300 bed:

- □ 125 mm Tente Integral simple castors + Fifth castor
- □ 150 mm Tente Integral Soft Brake simple castors
- □ 150 mm Tente Integral Soft Brake simple castors + Fifth castor
- □ 150 mm Tente Integral Soft Brake simple castors + EasyDrive
- □ 150 mm Tente Linea double castors + Fifth castor
- □ 150 mm Tente Linea double castors
- □ 125 mm Tente Linea double castors + Fifth castor
- □ 125 mm Tente Linea double castors

Each castor control lever is equipped with green pedal and red pedal.
Red colour refers to braking and green colour refers to steering.
Each castor control lever has 3 control positions.
All castor control levers are interconnected such that all pedal functions belong to each pedal.
In following table the pedal functions are described.

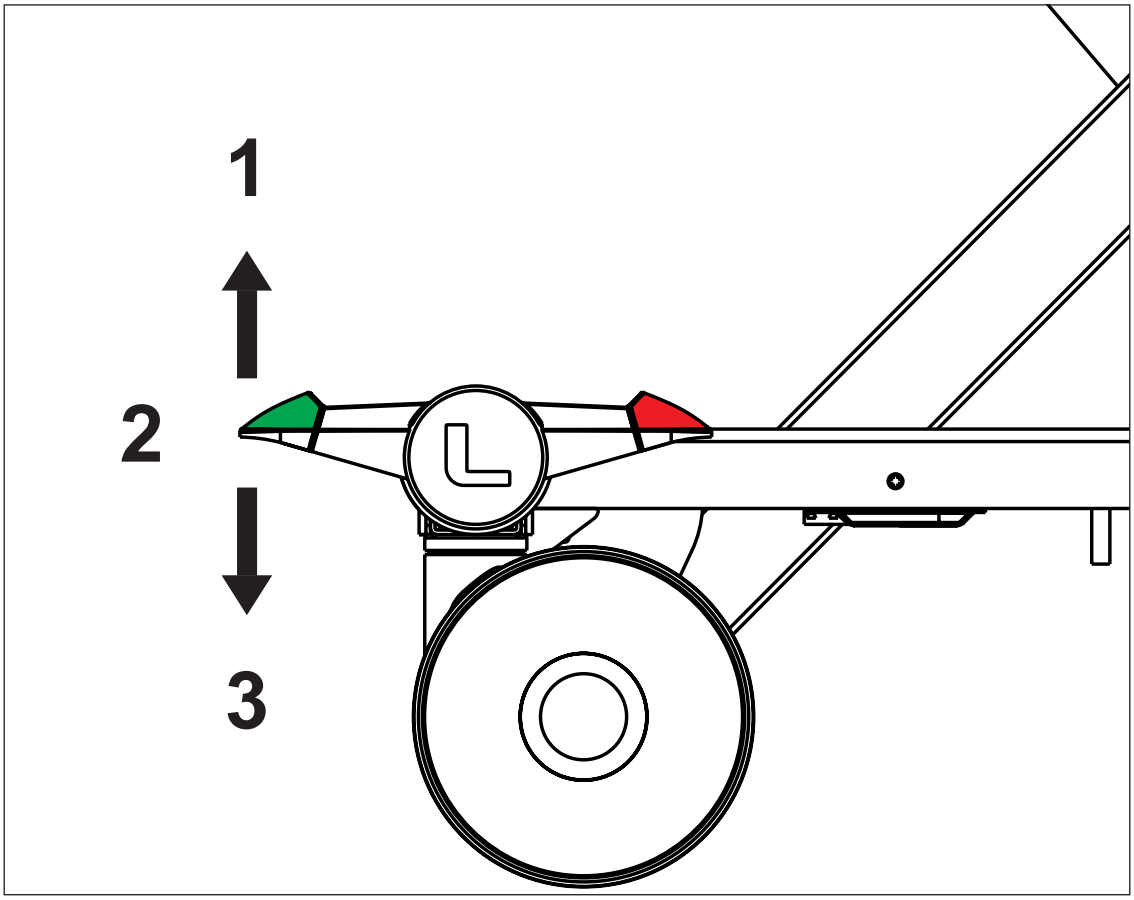


Fig. Three Positions of Castor Control Lever

Pedal Colour	Upper Position (1)	Middle Position (2)	Lower Position (3)
GREEN	BRAKED	UNRESTRICTED MOVEMENT	STEERING / FIFTH CASTOR / EasyDrive
RED	STEERING / FIFTH CASTOR / EasyDrive	UNRESTRICTED MOVEMENT	BRAKED

LINET

DECLARAŢIA DE CONFORMITATE UE	Număr:	DOCROEssenza300
	Versiune:	01

1. Tip/Model de produs - instrument:

Pat de spital acţionat electric – ***Essenza 300 / 1EZ3***

2. Numele şi adresa producătorului:

Nume comercial	**L I N E T spol. s r.o.**
Sediu social	Želevčice 5, 274 01 Slaný, Republica Cehă
Număr unic de înregistrare (SRN)	CZ-MF-000009320

3. Această declaraţie de conformitate este emisă sub răspunderea exclusivă a producătorului.

4. Obiectul declaraţiei:

Produsul:	**Essenza 300**
Descriere şi clasificare funcţională:	Pat de spital acţionat electric, destinat utilizării în secţiile standard de urgenţe. Această declaraţie de conformitate UE acoperă, de asemenea, toate accesoriile aplicabile.
Identificatorul unic de bază al dispozitivului, UDI-DI-ul de bază	**8592654348700CH**
Clasificarea produsului ca dispozitiv medical:	**Clasa I** nesteril, fără funcţie de măsurare, conform Anexei VIII a Regulamentului (UE) 2017/745 al Parlamentului European şi al Consiliului (MDR) - Regula 13

5. Obiectul declaraţiei descris mai sus este în conformitate cu legislaţia de armonizare relevantă a Uniunii:

- Regulamentul (UE) 2017/745 al Parlamentului European şi al Consiliului (MDR)
- Legea nr. 350/2011 Coll. privind substanţele şi amestecurile de substanţe chimice (Regulamentul [CE] nr. 1907/2006)
- Cerinţele aplicabile ale Hotărârii de Guvern nr. 176/2008 Coll. privind dispozitivele şi utilajele (Directiva 2006/42/CE)
- Hotărârea de Guvern nr. 481/2012 Coll privind restricțiile de utilizare a anumitor substanțe periculoase în echipamentele electrice și electronice (Directiva 2011/65/UE)

6. Referinţe la standardele armonizate aplicabile utilizate sau la alte specificaţii tehnice pe baza cărora este declarată conformitatea:

EN 60601-1:2006/A2:2021, EN 60601-1-2:2015/A1:2021, EN 60601-1-6:2010/A2:2021, EN 60601-2-52:2010/A1:2015, EN ISO 14971:2019, EN ISO 20417:2021, EN ISO 15223-1:2021, EN ISO 10993-5:2009, EN ISO 10993-10:2021

Locul şi data emiterii declaraţiei: Slaný, 15.2.2023

Semnat în numele L I N E T spol. s r.o.

.....
Ing. Tomáš Kolář, Director general

CE

LINET

EU DECLARATION OF CONFORMITY

Number:	DOCEssenza300
Version:	01

1. Product - instrument Type / Model:

Electrically operated hospital bed – ***Essenza 300 / 1EZ3***

2. Name and address of the manufacturer:

Commercial name	**L I N E T spol. s r.o.**
Registered address	Želevčice 5, 274 01 Slaný, Czech Republic
Single registration number (SRN)	CZ-MF-000009320

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

4. Object of declaration:

Product:	**Essenza 300**
Description and function designation:	Electrically operated hospital bed intended for use in standard and acute care. This EU conformity declaration also covers all applicable accessories approved by manufacturer.
Basic UDI-DI	**8592654348700CH**
Classification of the product as the medical device:	**Class I,** non sterile, without measuring function, according to Rule 13, annex VIII to Regulation (EU) 2017/745 of the European Parliament and of the Council (MDR)

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

- Regulation (EU) 2017/745 of the European Parliament and of the Council on medical devices (MDR)
- Act No. 350/2011 Coll., on chemical substances and mixtures (Regulation (EC) No 1907/2006)
- 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/A2:2021, EN 60601-1-2:2015/A1:2021, EN 60601-1-6:2010/A2:2021, EN 60601-2-52:2010/A1:2015, EN ISO 14971:2019, EN ISO 20417:2021, EN ISO 15223-1:2021, EN ISO 10993-5:2009, EN ISO 10993-10:2021

Place and date of declaration issue: Slaný, 15.2.2023

Signed for and on behalf of **L I N E T spol. s r.o.**

.....

Ing. Tomáš Kolář, Managing Director

CE

ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

DAkkS Deutsche Akkreditierungsstelle D-ZM-11321-01-00

Product Service

Certificate

No. Q5 067069 0038 Rev. 02

Holder of Certificate: **L I N E T spol. s r.o.**
Želevčice 5
274 01 Slaný
CZECH REPUBLIC

Certification Mark:

Scope of Certificate: **Design and development, manufacture, distribution, servicing and installation of hospital beds, nursing beds, birthing beds, ICT solutions, stretchers, anti-decubitus systems and mattresses and furniture for the areas of hospital care, gynaecology, social care and home care**

The Certification Body of TÜV SÜD Product Service GmbH certifies that the company mentioned above has established and is maintaining a quality management system, which meets the requirements of the listed standard(s). All applicable requirements of the testing and certification regulation of TÜV SÜD Group have to be complied with. For details and certificate validity see: www.tuvsud.com/ps-cert?q=cert:Q5 067069 0038 Rev. 02

Report No.: 713204634

Valid from: 2022-06-16
Valid until: 2024-07-22

Date, 2022-06-16

Christoph Dicks
Head of Certification/Notified Body

TÜV SÜD Product Service GmbH • Certification Body • Ridlerstraße 65 • 80339 Munich • Germany

DAkkS
Deutsche
Akkreditierungsstelle
D-ZM-11321-01-00

TÜV SÜD
Product Service

Certificate

No. Q5 067069 0038 Rev. 02

Applied Standard(s):

EN ISO 13485:2016
Medical devices - Quality management systems - Requirements for regulatory purposes
(ISO 13485:2016)
DIN EN ISO 13485:2016

Facility(ies):

L I N E T spol. s r.o.
Želevčice 5, 274 01 Slaný, CZECH REPUBLIC

Design and development, manufacture, distribution, servicing and installation of hospital beds, nursing beds, birthing beds, ICT solutions, stretchers, anti-decubitus systems and mattresses and furniture for the areas of hospital care, gynaecology, social care and home care

L I N E T spol. s r.o.
Politických vězňů 1969, 274 01 Slaný, CZECH REPUBLIC

Manufacturing of hospital beds and nursing beds for the areas of hospital care, gynaecology, social care and home care

TÜV SÜD Product Service GmbH • Certification Body • Ridlerstraße 65 • 80339 Munich • Germany

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