

User manual and technical description



PURA

Multifunctional chair

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PURA Multifunctional chair

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Related links: <http://www.linnet.com/cs/borcad-medical>

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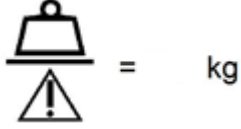
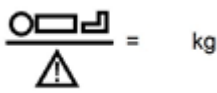

1 Introduction













Please read carefully the whole instruction manual, which is designed to familiarize you with the correct use and the parameters of your new birthing chair. Please always follow the instructions contained in this manual and use the chair only in accordance with these instructions.









Please keep these instructions near the chair throughout its operation. Every person operating the chair PURA must read and understand the contents of these instructions.

Very important information is marked throughout the manual by the following symbols:

| Logo | Meaning |
|---|---|
|  | <p>Product certification of compliance with EU rules</p> |
|  | <p>Symbol of the certifying body for quality management systems</p> |
|  | <p>The padding fulfills requirements for resistance to ignition as of the BS 7176, hazard category medium (Medium hazard)</p> <p>The padding has respected the requirements set out in EN 1021-1, BS EN 1021-2, BS 5852 – resistance to ignition source 5</p> |

| Pictogram | Meaning |
|---|--|
|  | Danger |
|  | Danger: Hazardous voltage |
|  | This symbol refers to all information that may help you to avoid operational complications |
|  | Applied parts B |
|  | Applied parts BF |
| SN | Production number |
| int x/y | Mark for intermittent functioning, this means that if the product is used without interruptions for an "x" period, then it should not be used for the "y" period. For example, int 10 / 20 means that after 10 minutes of use / continuous positioning the product should not be used / positioned for a period of 20 minutes. |
| IP X # | Structural protection against water infiltration, dangerous contact and resistance to extraneous objects |
|  | Safe operating load |
|  | Safe patient weight |
|  | Full weight of the product |

| | |
|---|---|
|  | <p>Producer</p> |
|  | <p>Date of production</p> |
|  | <p>Follow the instructions manual</p> |
|  | <p>Equipotentiality</p> |
|  | <p>Symbol of the packaging material: "Store in a dry place"</p> |
|  | <p>Symbol of the packaging material: "Attention! Fragile"</p> |
|  | <p>Symbol of the packaging material: "Hold in upright position"</p> |
|  | <p>Temperature limit</p> |
|  | <p>Symbol for transport Symbol for "relative humidity of the air".</p> |
|  | <p>Symbol for transport Symbol for "air pressure".</p> |
|  | <p>Symbol according to the Directive 2002/96/EC (Directive on waste electrical and electronic equipment). Symbol for "Do not dispose of this product in the municipal collection points for waste electrical and electronic equipment".</p> |
|  | <p>GO BUTTON</p> |

| | |
|--|---|
|  | <p>STOP BUTTON</p> |
|  | <p>Warning: Don't place items in this space</p> |
| <p>MAX 45 kg </p> | <p>Warning: Maximum load of the leg-support part</p> |
| <p>MAX 30 kg </p> | <p>Warning: Maximum load of the back part</p> |
|  | <p>Warning: Don't place items onto this cover Risk of hand injuries</p> |
|  | <p>Warning: Risk of hand injuries</p> |
|  | <p>Warning: Do not push or pull infusion stand</p> |
|  | <p>Cardiopulmonary resuscitation (CPR)</p> |
|  | <p>Warning: The power cable shall always be clamped on the selected place of the chair using a plastic hook as is recommended on picture! Follow the instructions manual!</p> |

Warning stickers location



| Abbreviation | Meaning |
|---------------------|---|
| LED | Light emitting diodes |
| VA | Power intake unit |
| VGA | Computer standard for computer imaging technology |
| USB | Universal serial bus |
| LCD | Liquid crystal display |
| IT | Information technology |
| PC | Personal computer |
| dB | Sound intensity unit |
| hPa | Pressure unit |
| Hz | Frequency unit in the SI system |
| EMC | Electromagnetic compatibility |
| HF | High frequency |
| ME | Medical equipment |
| CISPR | International Special Committee on Radio Interference |

Please address any potential queries to the authorized representative or directly to the producer BORCAD Medical a.s.

2 Safety and Dangers


2.1 Safety instructions

- ❖ Follow the instructions carefully.
- ❖ Any non-observance of this manual may lead to injuries or material damage.
- ❖ Exclusively use the chair if it is in perfect working order.
- ❖ If necessary, check the chair functions daily or at each shift change.
- ❖ Use the chair exclusively in its original condition.
- ❖ Use the chair exclusively with the correct mains supply.
- ❖ Ensure that the chair is exclusively operated by qualified personnel.
- ❖ Ensure that the patient (health permitting) has been informed about the operation of the chair and all applicable safety instructions.
- ❖ Move the chair 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.
- ❖ Do not apply excess weight or loads to the chair according to SWL (safe working load).
- ❖ During peak loads or unavoidable excess loads (CPR), place mattress platform in the lowest position.
- ❖ Ensure that only one adult patient uses the chair 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 chair.
- ❖ Ensure that castors are braked when the chair not being moved, regardless of whether the chair is occupied or empty
- ❖ Keep the mattress platform in the lowest position at any time when the healthcare personnel are not treating the patient in order to prevent the patient from falling or injuries.
- ❖ Ensure that siderails are operated exclusively by healthcare personnel.
- ❖ Never use the chair in areas where there is a hazard of explosion.
- ❖ Enable or disable functions on the handset using the supervisor panel as appropriate for the patient's physical and mental state. Verify that the function is actually disabled.
- ❖ Never handle the mains plug with wet hands.
- ❖ Unplug the mains cable exclusively by pulling on the plug.
- ❖ Attachment plug is the only means of disconnecting chair from the mains. It must remain accessible.
- ❖ Position the mains cable so that there are no loops or bends 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 chair.
- ❖ Ensure that the stipulated duty cycle (on-time) is not exceeded (see INT. on product label).
- ❖ Ensure that the moving parts of the chair 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 while the patient is unattended.
- ❖ Do not exceed maximum load of 200 kg for mattress platform extension.
- ❖ Ensure that the chair and its components are exclusively modified with the manufacturer's approval.
- ❖ Ensure there is no risk of crushing or otherwise injuring the patient's limbs (e.g. between siderails and mattress platform, between movable parts etc.) before positioning the chair or folding down the siderails.
- ❖ Do not put any objects (e.g. accessories, infusions, cables) between or on siderails/armrests and movable parts.
- ❖ Use exclusively siderails for confused or disoriented patients.

- ❖ Before setting the lowest position, ensure there is no risk of any parts of the chair colliding with servers, accessories or body parts.
- ❖ Ensure there is no risk of damaging the cables of supervisor panel or handset when they are stored on siderails or chair ends.
- ❖ To prevent collisions, do not put oxygen bottle holders directly under mattress platform.
- ❖ Always set mattress platform to its lowest position and single parts of mattress platform to horizontal position in case the patient is left on the chair without supervision of personnel and if his health and mental status may indicate increase risk of falling out of the chair or entrapment.
- ❖ Personnel must consider overall adjustment of the chair and locking all of the positioning functions in accordance to health and mental status of patient, especially if the patient is left without supervision (even for short period of time) of the personnel.
- ❖ Pay attention to the correct fastening and positioning of the accessories.
- ❖ Do not carry out unqualified disassembly and repairs of the motors, the control panel etc.
- ❖ The chair should not be used in explosive environments.
- ❖ Structural modifications reserved!
- ❖ In order to prevent fires related to flammable substances and anesthetics during minor surgical procedures using high frequency (HF) equipment it is necessary to put the chair in equipotential connection with other medical devices.
- ❖ Never use accessories which are not original. Every original accessory is marked by an original label containing the name and trademark of the manufacturer, the product marking and the code barring other information: (production number or the ID of the batch, data of production).

Manual positioning of parts of the chair which are designed for electronic positioning (e.g. back rest) is forbidden. Otherwise there is a risk of damaging and dysfunction of the back rest actuator or unprompted fall of the back rest.

Fire Extinguishing Information

| | |
|---|-------------------------|
|  | Warning: Note |
|---|-------------------------|

Danger of frostbite by contact of CO₂ with human skin!
Do not use halotron extinguisher in closed rooms without ventilation – danger to your health!

The medical product is categorised as energised electric installation, hence, fire can be extinguished by the following types of extinguishers.

| Use | Do not use |
|------------------------------|--------------------|
| Powder extinguisher | Foam extinguisher |
| CO ₂ extinguisher | Water extinguisher |
| Halotron extinguisher | |

3 Un-packing Manual

Shipment inspection after delivery

Do not unpack and/or accept the shipment if the package is clearly damaged! If that is the case, file a complaint.

Personnel qualification

Persons authorised to install the product and put it into operation, i.e. persons trained by BORCAD Medical a.s.

Personnel required for unpacking and installation

At least two persons.

Time estimation

Unpacking is estimated to take 20 minutes; installation is estimated to take 20 minutes.

Tools and materials needed

Scissors / knife.

Required workspace

When unpacking, pay attention to the overall dimensions of the chair. Recycle used packing material. We recommend unpacking and installation at the goods receipt point. When unpacking, leave at least 0.8 m of space on both sides of the pallet and at least 2.6 m (minimum unpacking space is 2.8 x 5.2 m).

Instructions

Cut the safety tape.



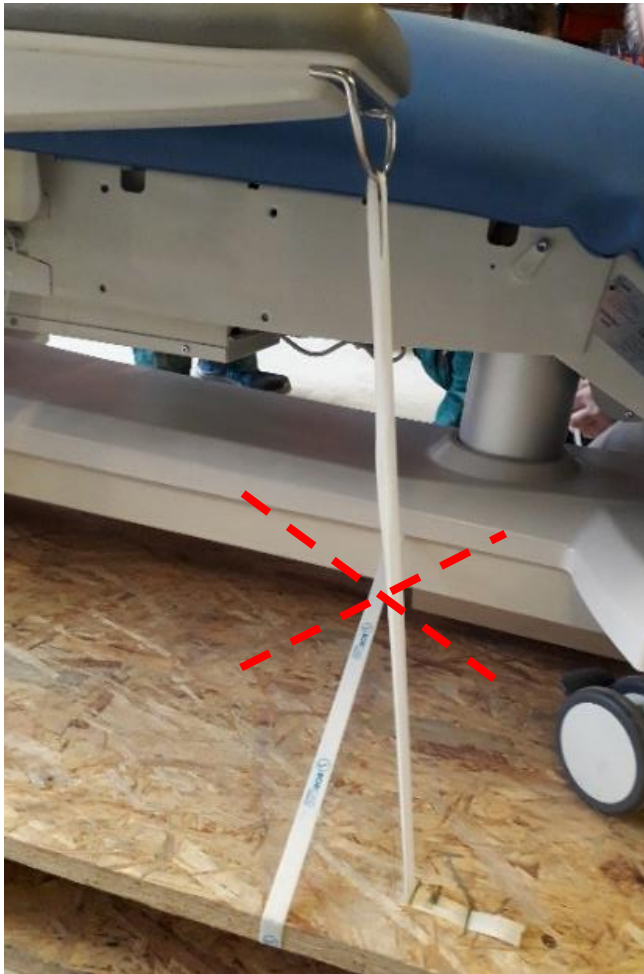
Remove the top of the packaging and the corner of the box. Cut off the corners of the outer reinforcement or crush them with your foot so that you can pull the chair out of the pallet easily. Carefully cut through the plastic packaging.



Version with side rails: the side rails are in a down position. Cut the tightening straps and remove the mirelon tubes.

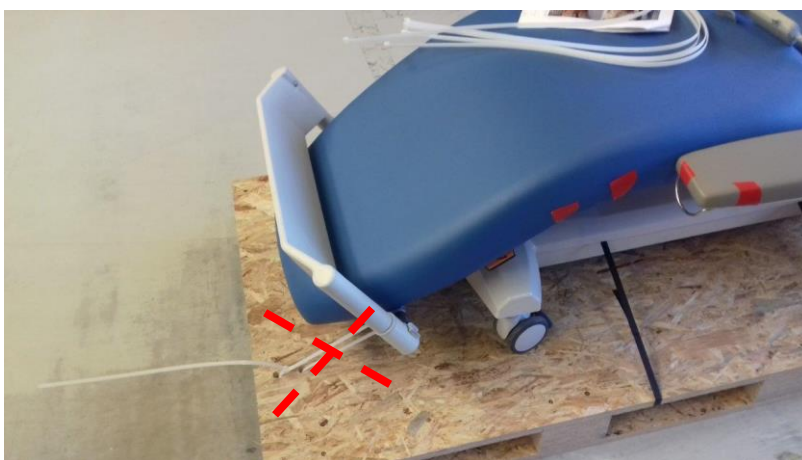


Version with armrests: the armrests are placed horizontally, they do not touch the chair. Cut the strap to release them. Gradually pull all accessories out of the packaging and cut-outs, remove the empty packaging from the pallet and dispose of it.



Cut off the tightening straps from the hand control and the power cable and remove the mirelon tubes at the bottom frame.

Cut off the tightening straps from the footrest.



Cut off the tightening straps at the back part and remove the mirelon tube.

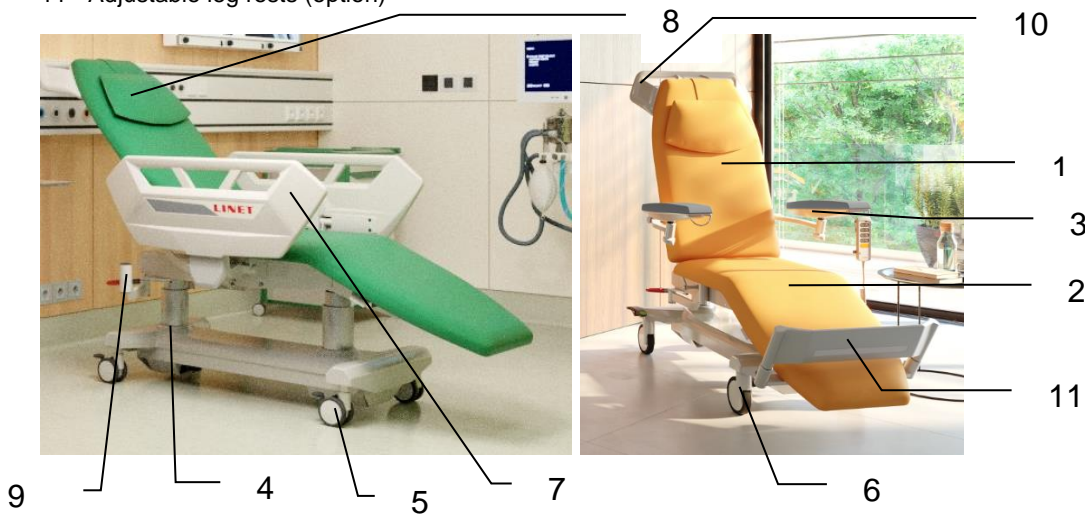


Cut off the tightening straps holding the chair's chassis together with the pallet and release the brake of the wheels. Then the chair can be carried by two persons from the pallet and placed on the ground.



4 Overview of basic parts

1. Back section with non removable upholstery
2. Seat section / leg section with non removable upholstery
3. Adjustable armrests
4. Base of the chair with lifting column
5. Lockable castors – 100 mm diameter
6. Castors with central brake – 150 mm diameter
7. Adjustable siderails
8. Pillow (option)
9. IV pole holder (option)
10. Head bumper, transport handle
11. Adjustable leg rests (option)



4.1 Overview of basic versions

| | |
|--------|------------|
| ODA-AX | basic type |
|--------|------------|

4.2 Overview of colour versions

Substituted by the letter "X".

| | |
|------------|------------|
| A – Purple | M – Yellow |
| B – Blue | P - Orange |
| F – Green | |

4.3 Safety

Standards

The product meets the requirements of valid standards EN 60601-1 ed. 2 and IEC 60601-1-2 ed. 3. According to the current text of the Directive on Medical Instrumentation 93/42/EEC, the chair is classified as class I medical device, non-sterile, without measuring function.


The chair complies with the following standards and directives:

- EN 60601-1:2006/A1:2013
- EN 60601-1-2:2015
- EN 60601-1-6:2010
- ISO 10993-5:2009
- ISO 10993-10:2010

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

- ISO 9001
- ISO 14001
- ISO 13485

Function

| | |
|---|----------------------------|
|  | Warning: Caution |
| The essential functions are lying, sitting and supporting the patient during procedure. Additionally, it is the CPR position. | |

The use of the chair is allowed only on the premises that comply with the conditions of the applicable regulations for electrical installations in premises for medical purposes. In accordance with the provisions of the law on medical devices, the product can be used only by appropriately qualified users.

For service assistance: the authorized service centre of BORCAD Medical a.s. can responsibly evaluate technical and safety properties only if the use, repairs, changes etc. have been carried out in centres approved by the manufacturer and the product is used in a manner fully compliant with this manual

Intended Use

The chair complies with the demands for chair before and after the day surgery operation (patient admission, transport, recovery after surgery) and for non-invasive procedures such as Colonoscopy/ Gastroscopy endoscopic examination, Operation of Hallux Valgus deformities, Surgical Treatment of small burns.

The chair complies with the demands of treatment processes in terms of dialysis/oncology/blood donation.

The essential functions are lying, sitting and supporting the patient. The chair serves for several-hour-rest of a patient during a treatment process. The chair is equipped with adequate accessories and offers the patient the opportunity to rest in optimal – comfortable position during the procedure. The practitioner and the staff have maxim support for their work.

Contra-indications

Absolute contra-indication is the use of the chair for planned day surgery invasive operations, when it is possible to perform the surgery in a standard operation room with adequate equipment.

The chair does not replace a stretcher.

Interaction

When using the chair as part of the medical system, certain elements (medical devices) may interact. Before this application it is necessary to follow recommendations provided in the user manual of the chair.

General instructions

Chair is intended for use in the Application Environment 5 (acc. to IEC 60601-2-52).

Application environment 5

Outpatient (ambulatory) care, which is provided in a hospital or other medical facility, under medical supervision and me equipment, is provided for the need of persons with illness, injury or disability for treatment, diagnosis or monitoring.

Electrical safety



Warning:
Dangerous electric voltage

The arm-chair mustn't be used in medical premises with potential danger of fire or explosion caused by air, environment with enriched oxygen, or with monoxide nitrogen in combination with anesthetic or cleaning agents.

Since the unit is powered from the network, it may cause interference with sensitive equipment due to generation of electromagnetic field. In order to reduce the influence of undesired electromagnetic effects, the chair was designed in compliance with AAMI/ANSI/IEC 60601-1-2. To prevent the occurrence of these problems the chair must be used in compliance with this manual.

To avoid risk of electric shock, this chair must be connected to power main with protective earthing.

The chair must be positioned in such a way so that it could be immediately disconnected from the power main if necessary.

If there is a fluctuation in the voltage range, then it is necessary to connect the product to voltage regulator. Otherwise the electronics can be damaged!

The chair may cause radio interference, which can affect function of nearby device. It may be necessary to take measures to reduce these effects, such as redirection, relocation or shielding of the device.

Portable and mobile HF communication equipment can influence chair functions.

Medical electrical equipment or medical electrical system should not be used in extremely short distances within the chair! In the case it is necessary to use medical electrical equipment in this extremely short distances within the chair observe this configuration regularly to verify the normal functions of the chair in this configuration.

Consult BORCAD Medical a.s. or local dealer before using medical electrical equipment where influence on the chair can be strong.

NOTE AAMI/ANSI/IEC certified medical electrical equipment used in ICU is not restricted.

NOTE It does not concern fixed installations of hospital communication systems and nets (DECT, pager, WiFi) and other mobile devices which are certified according to local telecommunication legislation

The chair must be installed and put into operation in compliance with information related to EMC provided in the accompanying documentation. Portable and mobile HF communication devices may influence the electrical medical device.



Warning:
Dangerous electric voltage

Do not wrap the power cable around the chair and its parts – front part, barriers, armrests, transport handles and others!

When lifting the chair or its back part, there is a risk of cable tear! Risk of electric shock or fire!

In case of visible damage to the cabling, do not tamper with the chair or the cable! It is always necessary to call service technicians!

The mains power cable must be always attached to a selected place on the chair with a plastic hook!



Electromagnetic compatibility

Chair 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.

Chair has defined no essential performance.

WARNING!

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

List of used cables:

1. **Mains cable**, maximum length 6 m

WARNING!

Use of the accessories, converters and other cables, than specified and provided by manufacturer of this chair could lead to increase of electromagnetic emission or lower the electromagnetic immunity of this chair 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 chair, including cables specified by manufacturer. Otherwise this could lead to deterioration of functionality of this chair.

WARNING!

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

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 |

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 % U_T ; 0,5 cycle At 0°, 45°, 90°, 135°, 180°, 225°, 270° a 315° 0 % U_T ; 1 cycle and 70 % U_T ; 25/30 cycle Single phase: at 0° 0 % U_T ; 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.

Mechanical safety



Warning: Caution

- No objects that may collide with the chair (furniture, stands etc.) may be located near it.
- Never put any extra objects under the mattress platform.
- No person are allowed to retain under the chair.
- Never enter the space under motor operated parts of chair (back, seat and leg rests).
- Before undertaking any resetting of the birthing chair check if no one is within reach of the moving parts.
- Before any resetting, check for kinked and/or tangled power cables.
- After setting the chair in place, all brakes must be engaged so as to prevent unwanted movement of the chair, e.g. during patient's occupancy. When setting the chair all four castors have to be in contact with the floor and the brakes engaged.

4.4 Setting the product

- Before the patient seat section on the multifunctional char the char has to be positioned-locked safely!
- The multifunctional chair cannot be transported in the Trendelenburg position.
- The multifunctional chair PURA is equipped with 4 castors with brakes that must all be blocked so that the chair can stay steady on the floor
- To brake all castors in the version you use the central brake.
- Nearby the armchair should not be placed any objects (furniture, easels etc.) that might collide with it.
- Never touch and never entry into the space under the engines parts of the supporting area (back section, seat section and leg rest).
- When fastening the multifunctional chair it is necessary to pay attention so that all 4 castors are in contact with the floor – are properly fixed.
- Before connecting please check the status of the power cable, there shall be no mechanical damage.
- Before connecting to the mains, check that the mains voltage corresponds to the data on the label of the multifunctional chair.
- Within a distance of 1.50 m within the patient space you can use only medical devices which comply with the requirements of EN 60601-1 or a medical device certified according to IEC.
- The power cable must not be connected through an extension but directly into the socket.
- The chair must be connected to the mains and left at least 10 hours connected to the mains so that the backup battery is loaded to its full capacity.

BORCAD Medical a.s. recomend to set up the chair in to Welcome position before every new patient:

- Straight "horizontal" position at the lowest possible height of the chair.
- The foot section is extended and set in the highest position, where it serves as a lying area.
- The chair is covered with government-issue sheets / disposable drapes.
- The side rails/armrests are in the active position, and they serve as a safety feature.
- The wheels are braked with a central brake.
- The staff always briefly instruct the patient on how to use the chair (control the basic functions, the chair's adjustment) and showing the warning labels.

4.4.1 Transport, braking

The chair also allows for the transport of a patient. This is, however, subject to the following conditions:



Warning:
Caution

Transport the chair in its lowest position and make sure that it is not transported over areas with lateral inclination exceeding 6°. Always use the transport handles. In case of interrupting the transport (stopping the movement of the chair), always secure the chair with the central brake. Otherwise you can cause injury to persons or damage to the device.

The maximum threshold crossing height is 200mm.

The chair allows for the transport of a patient by pushing forward using the handle on the back section. Before transporting the patient, disconnect and store the power supply cables and equipotential and other connections properly, to prevent their tearing off. Use the handle on the back section only to transport the chair. Do not transport the patient if the chair is set in the chair position. If you do so, you can cause injury to persons or damage to the device. Before transporting the patient, the central brake must be released.

When transporting the patient, the locking pedal must be used to secure the front directional castor in a straight direction. Optional lamp must be turn off, charging of mobile phone should be switch off. Otherwise the patient has to be transported by two persons.

When transporting optional lamp must be turn off, charging of mobile phone should be switch off to keep battery back up fully charged for more important movements of chair (high adjustmet, tilting etc.)

When transporting the chair within hospital premises, make sure that the patient as well as all equipment, such as cables (including the power supply cable), hoses, tubes, etc., are safely placed in the area bounded by the circumference of the chair. Otherwise you can cause injury to persons or damage to the device.

During transport, check the stability of the infusion stand - it can hit doors or ceiling lights. Before transporting the patient, set the stands to the lowest position. Otherwise you can cause injury to persons or damage to the device.

After the transport, reconnect the power supply cable and secure the chair with the central brake. Otherwise you can cause injury to persons or damage to the device.

Do not expose the chair to prolonged extreme effects of external environment (snow, frost, rain, etc.). It could damage the device.

During transport, pay attention to the leg rests, siderails, foot section and hand grips to prevent hitting doors and other objects. Otherwise you can cause injury to persons or damage to the device.

Suitable floor:

- Floor tiles
- Hard linoleum
- Cast floor

Unsuitable floor:

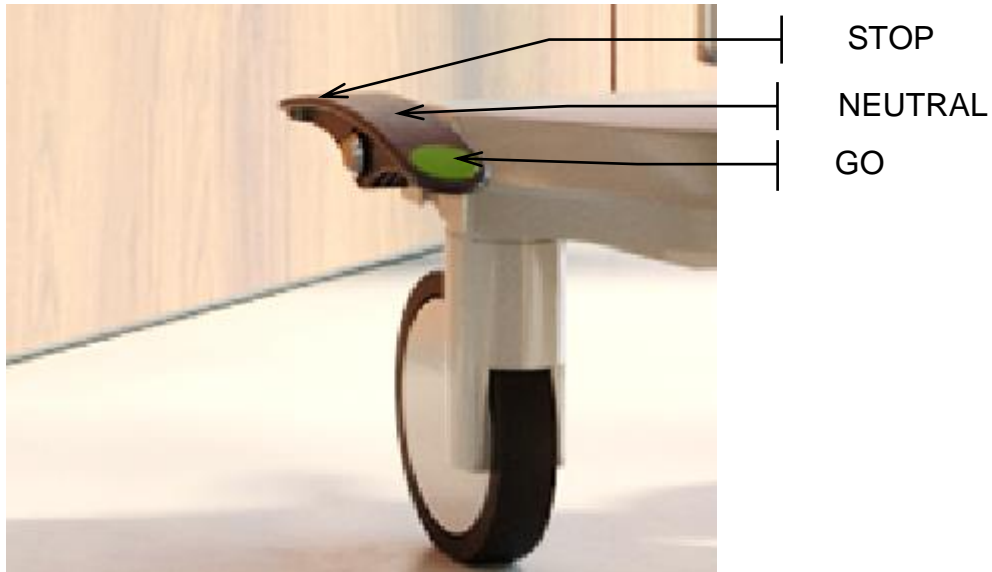
- Too soft, not sealed or defective flooring
- Soft wood floor
- Soft and porous artificial stone floors
- Carpets with lining
- Soft linoleum
- When transporting the chair at a distance, check the castor control is active (main control lever).
- Release the brake before transporting the chair.

The chair is fitted with four castors (150mm version) and it may be moved in all directions. Castor functions are controlled by pedal brakes.

Setting of the wheel pedal:

| | |
|--------------|--|
| Backward | All castors locked |
| Horizontally | All castors free, spinning around their axle |
| Forward | Left castor locked (patient on the chair view) in forward direction, other castors free, spinning around their axle. |

Symbols meaning of arrest control pedals:

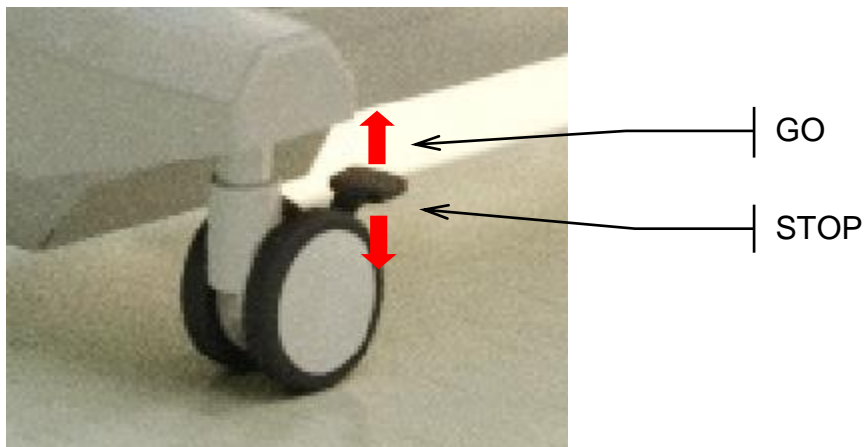


The chair is fitted with four castors (100mm version) and it may be moved in all directions. Castor can be blocked individually.

Setting of the wheel pedal:

| | |
|----------|--------------------|
| Upward | Castor is unlocked |
| Downward | Castor is locked |

Symbols meaning of arrest control pedals:



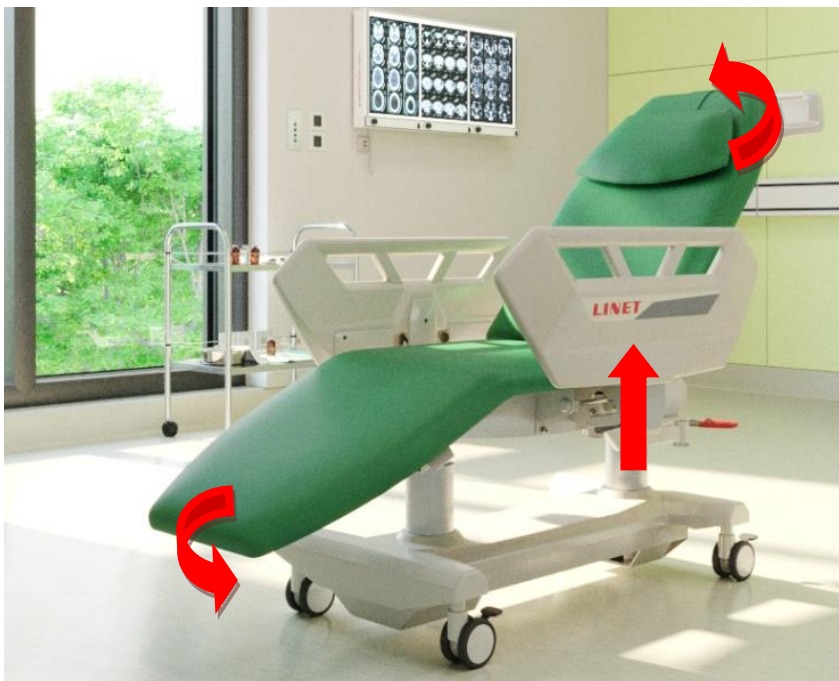
4.4.2 Transportation of the chair from one place to another

Follow the instruction below:

- Do not move the chair over cables.
- Power cable of the chair must always be fixed in the hook.
- Unlock the castors before travelling (see castor control and transportation).
- Do not move the chair on floors with unsuitable surfaces.

The chair can be transported from one hospital to another without the pallet and/or further transport aids.

1. Lift the back in an angle of approx. 30°
2. Fold down foot section.
3. Put the siderails/armrest to active position
4. Tilt infusion stand holder to parking position or if it is fixed carefully watch when transporting.
5. Load the chair to transport car, ramp
6. Brake the chair
7. Tie down the chair



5 Operating the chair



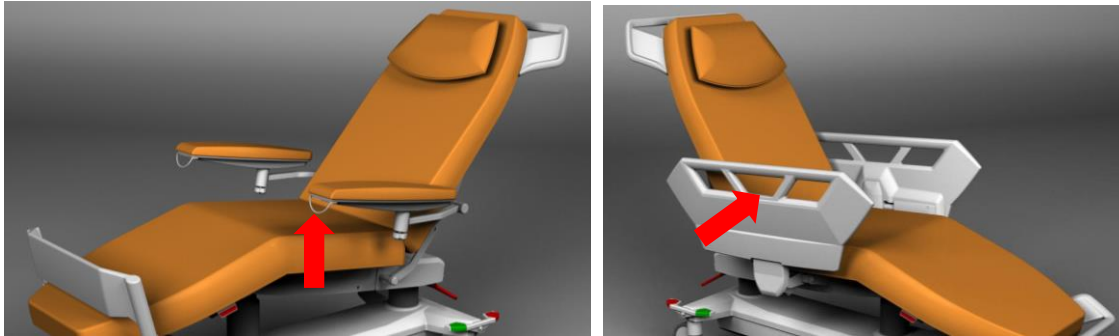
Warning:
Caution

- The multifunctional chair is not intended for continuous use - motors can withstand the maximum loads values reported on the label, or 2 minutes of continuous use (e.g. continuous positioning of the chair) and then 18 minutes of rest. In case of overload automatic shutdown of operation can occur. After that a service intervention is required.
- If multifunctional chair includes the backup battery, than fully battery (properly charged) allowed using the chair for about 1 minute. The battery is automatically powered by the control unit and does not require any particular maintenance regime, except in cases where the chair is not connected to the mains for over a week and it is necessary to disconnect the battery connector from the CB (Control box).
- The product components do not have any particular fire extinguishing property. For this reason, be careful in case of open flames near the product. Otherwise, the product may catch fire.
- Before any movement of the multifunctional chair make sure that other people are not within reach of the moving components.
- Before any movement of the multifunctional chair check that the power cables are not pressed.
- Before movement with back section, please check if the back section is not in collision with a wall, furniture or other collisions.
- In the event of failure of the hand controller (button continuously pressed or cable damage) it is possible to stop powering by pressing the button for reverse operation, after that it is necessary to disconnect the power cable and the batteries and contact the service centre.
- When you manipulate the product pay particular attention to the protection of the power cable so that there is no mechanical damage to the insulation.
- In case of replacing the fuses, check the correct position of the fuse. To replace a fuse you don't need necessarily a service centre of BORCAD Medical a.s. the operation can also be performed by a specialist in the electricity sector.
- Never hang the not connected power cable to the moving parts of the chair. Work on the backup battery may cause damage!
- The power cable must not pass over the chair nor over the patient (customer).
- Beware of the free movement of tubes, cannulas and other loose mobile parts (if used for example for the IV) so that they are not pressed in the moving parts of the product (armrests or folding parts of the product might be point of possible collision).
- Collisions with surrounding objects may occur during positioning. It is recommended to keep a safe distance from other objects so as to avoid collisions between them.
- The backup battery is intended only for the operation of emergency in case of a power failure, not for current operation.
- Both armrests contain eyelets to attach the hand controller. Putting the hand controller in this position when not in use you can avoid situations of mishandling that may cause damage to the hand controller.

5.1 Motor setting

The hand controller is very intuitive, ergonomic design and standard feature. It contains basic positions of chair sections (back section, foot section, and foot support), up/down and chair inclination. It also offers functions such as lock position, GO button, Trendelenburg, indication of the battery status, indication of connection to mains, STOP button and memory functions (horizontal and access position).

Storage location for handcontrol see picture, any other location is not allowed!








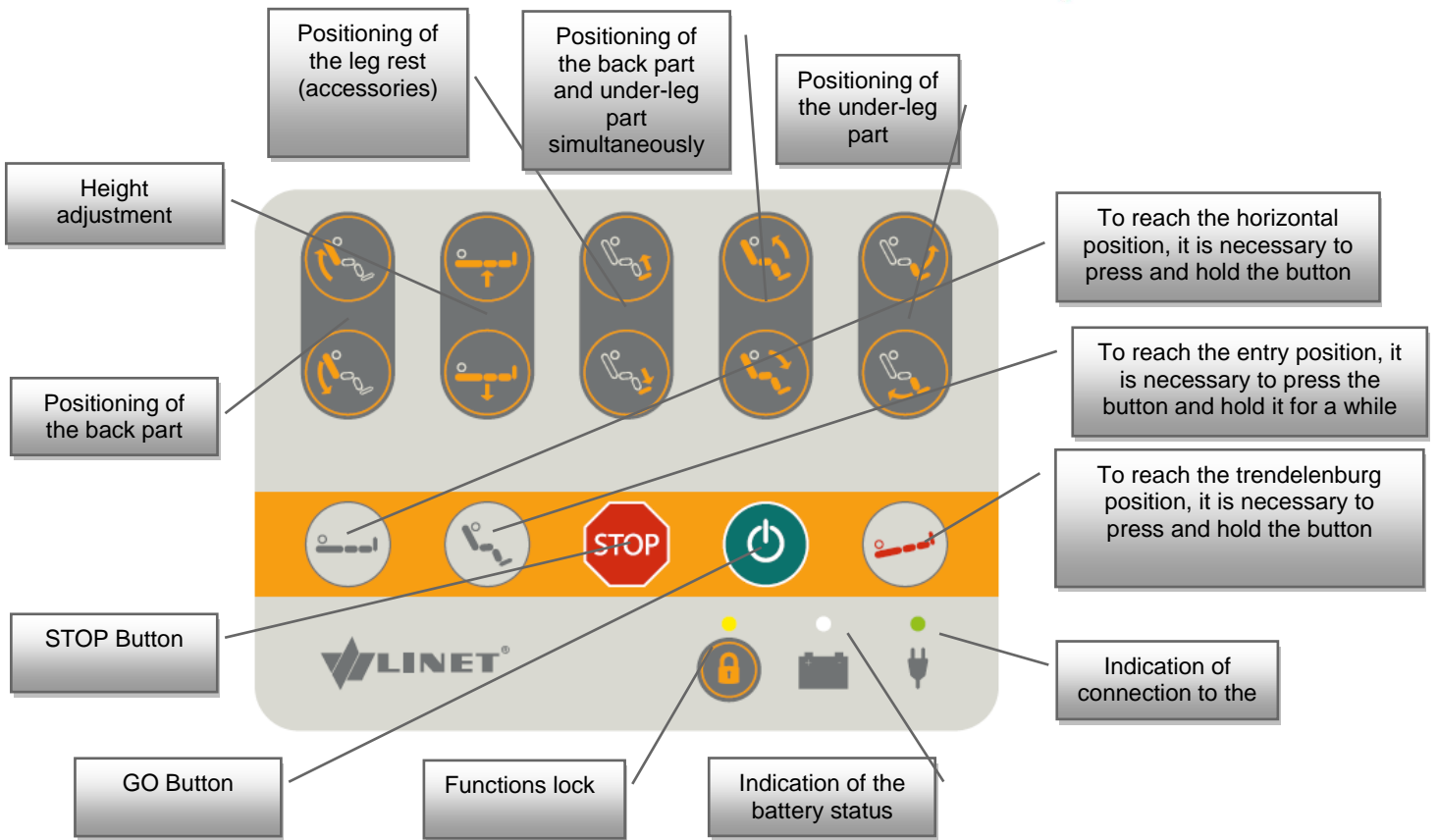
Explanation of LED diodes

| Power On – green control light on the hand controller | |
|---|---|
| Turned off | Chair not connected to the electricity |
| Always on | Chair connected to the mains, battery charged ready for use |

Explanation of acoustic signals

| Beep sound during operation |
|--|
| The battery is almost completely discharged (less than 30%), in few moment the chair will stop working. Connect immediately the chair to the mains |

| | |
|---|---|
|  | <p>GO button</p> <p>The GO button is used to turn on the time interval in which other functions on the control can be used. The GO interval ends 3 minutes after the control was used the last time.</p> <p>Next to the GO button, there is a LED indicator of the active GO periods (the time interval in which the control functions can be used). This is the LED next to the GO button which is on during the active GO period; light is off outside the GO period; when the GO period is not on and the button of the blocked GO function is pressed, the indicator flashes while pressed. It is impossible to set the chair into positions at this moment!</p> |
|  | <p>STOP button</p> <p>Pressing the button stops all chair movements. After pressing another function button, the chair then moves to the desired position again.</p> |
|  | <p>Battery status indication</p> <p>Off – the battery is charged Flashing (light is on briefly, not for long) – battery charging in progress Flashing (light is on longer, not briefly) – battery voltage very low Flashing fast – battery voltage drops Light continuously on – the battery is not detected (missing battery, disrupted supply, defective fuse)</p> |
|  | <p>Network connection indication</p> <p>The LED light is on when the chair is plugged into the mains. The LED light is off when the chair is not plugged into the mains.</p> |
|  | <p>LOCK button</p> <p>To lock all chair movements, press the button on the hand control. The corresponding LED on the hand control switches on. To unlock all chair movements, press the button on the hand control and hold it down. The corresponding LED on the hand control is turned off.</p> |



5.2 Armrests

5.2.1 Basic armrests

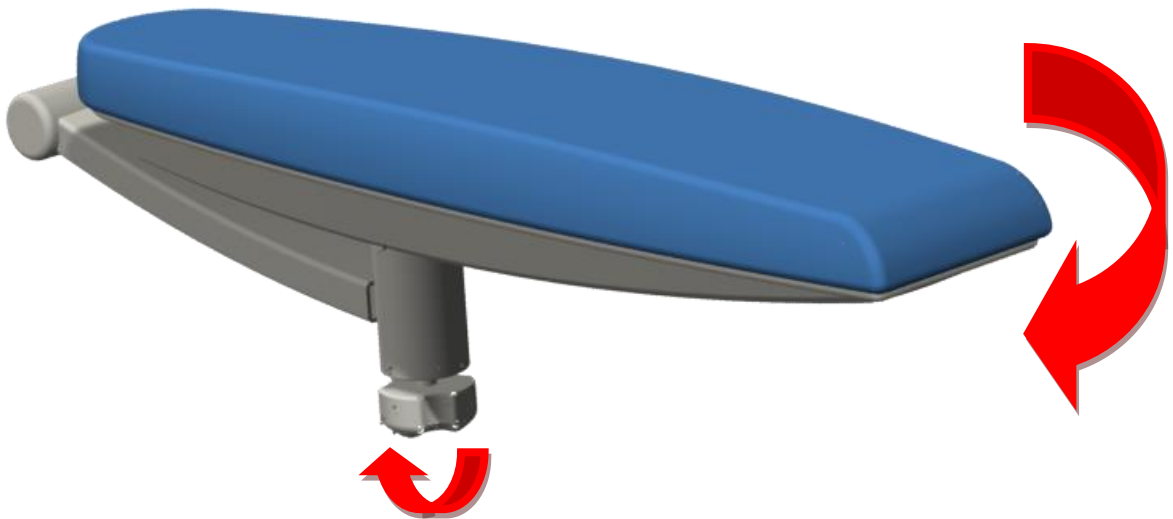


Warning:
Caution

The armrests are adapted for a maximum load – see Technical parameters. In case of overload (such as when sitting on the armrests) this component may lose their functionality. We strongly recommend that you respect the maximum load of the armrest.

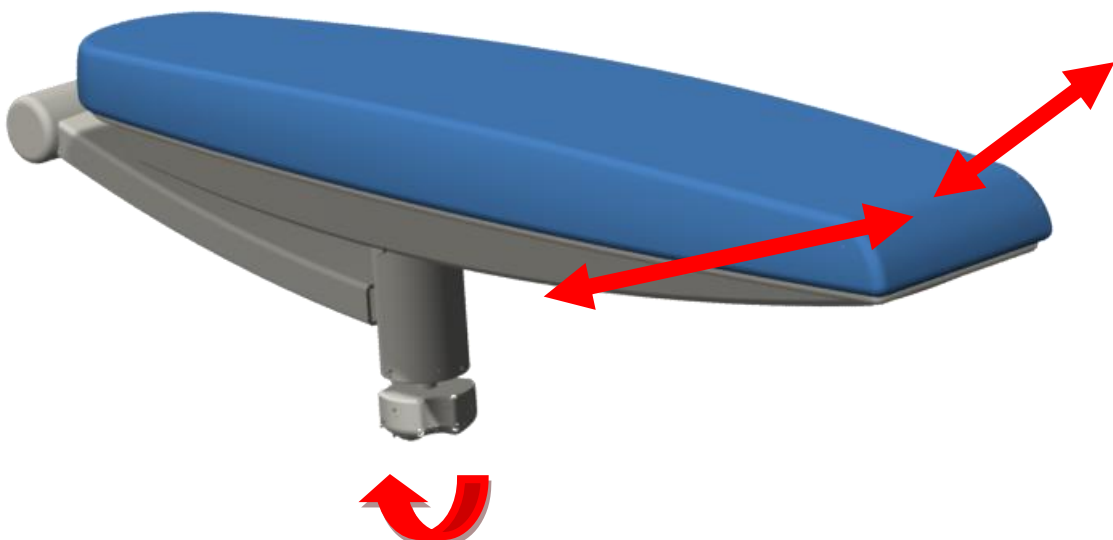
Vertical positioning

By pressing the adjusting lever located on the front of the armrest while pressing at the same time on the armrest you can set the armrest to the lower position. With the reverse movement (control lever always pressed on the front of the armrest) – by pulling we can set the armrest until the horizontal position.



Horizontal positioning

Each armrest can be adjusted horizontally to the side just by lifting the armrest and then rotating it until the desired position. In this way, we can adjust the armrest in a total of 5 preset positions.



5.3 Siderails



Warning:
Caution

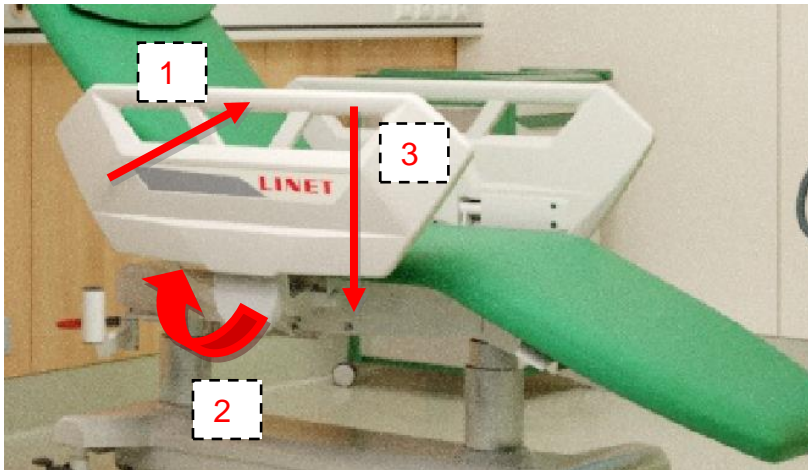
Risk of injury due to patient falling out of chair!

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

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

To fold siderails down:

Take hold of the siderail handle and push siderail towards mattress platform 1.
Pull out locking mechanism 2 to unlock.
Fold siderail down 3.



To fold siderails up:

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

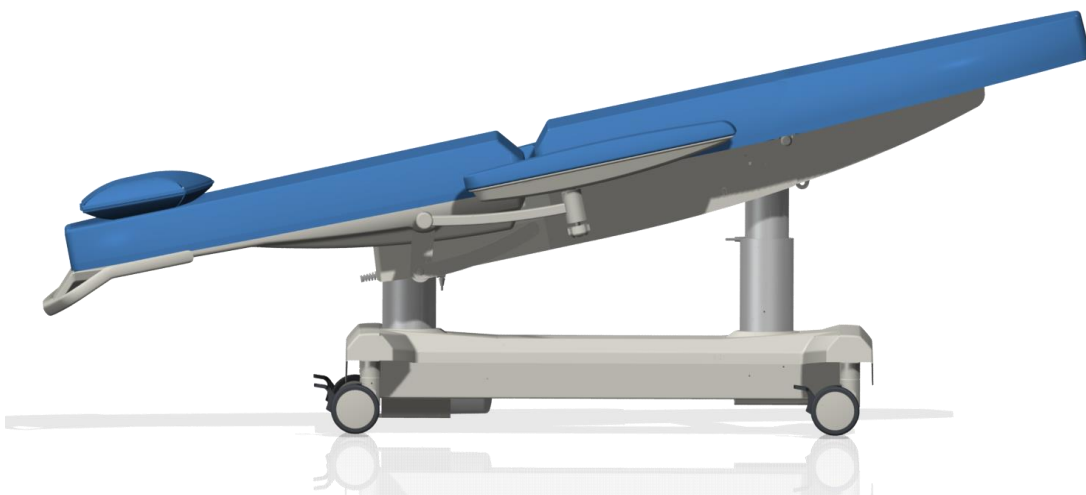
5.4 Electric setting of Trendelenburg



Warning:
Caution

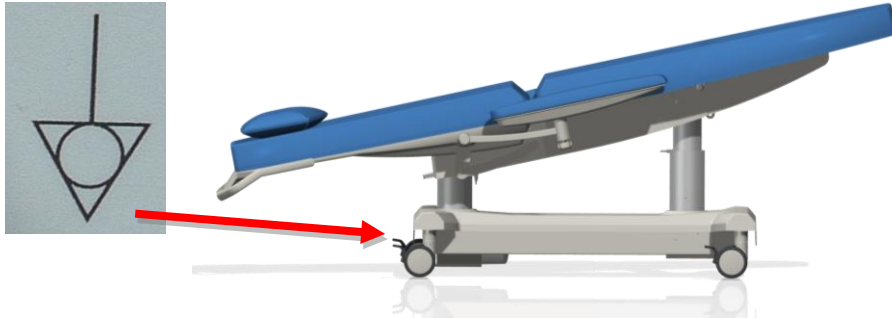
The optional equipment of the arm-chair contains a backup battery, which serves to set the chair into the anti-shock position in case of a power outage.

To set the Trendelenburg position press (and keep holding) the button on the remote control. In this way the anti-shock position can be set starting from any previous position of the chair. To reset the back section to its original position, use motoric positioning (activates via hand control).



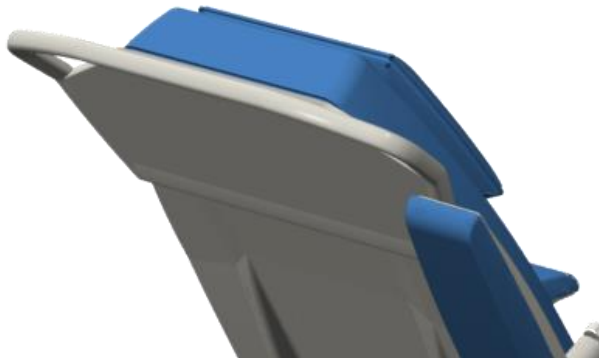
5.5 Equipotential bonding

The chair is fitted with a coupling for synchronizing the potential with other electrical medical equipment. The coupling is located behind the chair under the lying surface of the chair. The chair is interconnected to the other device by means of a cable (not supplied with the chair) that is connected easily by its end to the coupling.



5.6 Rear head bumper

Rear chair-head represents a safety element of the chair and can be used by personal during transport as the transport handle.



6 Accessories



Warning:
Caution

Never put removable accessories onto the arm-chair, onto its loading area, onto the bottom cover or over a patient. Otherwise you can cause injury to persons or damage to the device!

6.1 Rotary holder of the infusion stand



Warning:
Caution

The maximum loading is 10 kg!

The adjustable infusion holder is used for fixing the infusion stand. It offers two positions - "parking" and "active". To fix the holder in the "active" position, draw the holder toward you. To return the holder back to the "parking" position, repeat the procedure in the opposite order (it is only valid for the version with elbow-rests).



6.2 Firm holder of the infusion stand



Warning:
Caution

The maximum loading is 10 kg!

The inseparable infusion holder is used for fixing the infusion stand. It offers one "active" position (it is only valid for the version with barriers).



6.3 Pillow (flat)

A comfort height-adjustable head rest provides a support for a patient's head. A pillow with a leatherette band can be easily demounted.



6.4 Pillow (half-round)

A comfort height-adjustable head rest provides a support for a patient's head. A pillow with a leatherette band can be easily demounted.



6.5 Pillow (for lying on the side)

A comfort adjustable head rest provides a support for the patient's head which lays on the arm-chair on his/her side. The pillow is not fixed on the arm-chair, it is possible to take it off.



6.6 Pillow (for legs)

It serves for underlaying the patient's legs (under knees) lying in a horizontal position.



6.7 Pillow (between the back and seat parts)

The pillow increases patient's comfort in the area of his/her thighs, mainly in a horizontal position of the arm-chair. The pillow can be easily unfastened from the both sides of the arm-chair by unhooking from the pin.



6.8 Big plastic box for personal things



Warning:
Caution

The big plastic box cannot be combined with the oxygen bottle holder!

The maximum loading is 8 kg!

It serves for putting patient's personal things into it. The vessel volume is 20 l. Dimensions (length: 42 cm, height: 23 cm, width: 30 cm).



6.9 Small lockable box for personal things



Warning:
Caution

It is not possible to combine the lockable box and the holder for an urine bag on the same side of the arm-chair.

It is designed for locking small patient's personal things such as keys, telephone, wallet. The box includes keys for the lock.



6.10 DIN lath

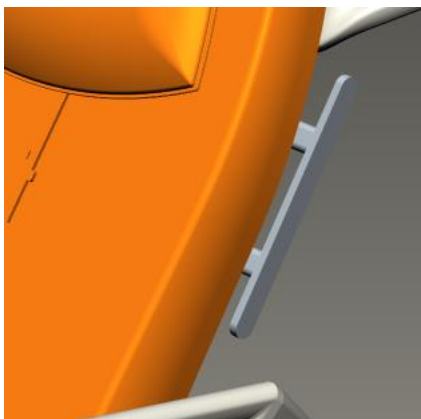


Warning:
Caution

While moving the arm-chair up and down, please make sure that ambient things are not in collision with or cannot be captured by this holder.

The maximum loading is 50 kg at the maximum outreach of 200 mm!

The holder is used for the placement of the certain accessories such as, for example, an additional rest, infusion stand and surgical trays.



6.11 Paper roll holder

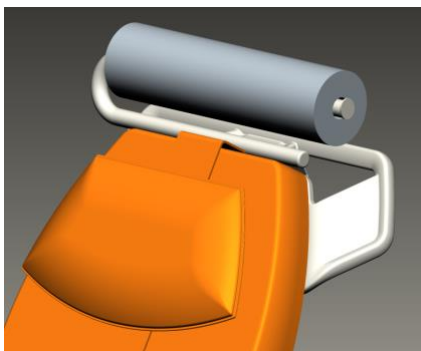


Warning:
Caution

It is only designed for a paper roll!

It serves neither for any manipulation with the arm-chair nor as a transport handle!

The paper roll holder (for the maximum roll with a length of 50 cm).



6.12 Lamp for reading



6.13 PVC cloth of elbow-rests (a pair)

6.14 PVC cloth of the leg rest

6.15 Tablet holder (L/R)



Warning:
Caution

The maximum loading is 8 kg!

While using a tablet in the holder, give a special attention to it. A tablet should be always safety laid in the holder to avoid its falling out and damaging.

The holder is designed for fixing a tablet with dimensions of 7 to 10 inches.

6.16 Oxygen bottle holder



Warning:
Caution

The maximum loading is 15 kg!

It is impossible to combine it with the big plastic box!

Please be especially careful during manipulation with an oxygen bottle with the holder. It is always necessary to fix the oxygen bottle with the holder with the help of an attached strap to prevent from its falling out. As far as you don't do so, it can cause an injury of persons or damage of the equipment.

It is designed for fixing the oxygen bottle with the maximum volume of 5 liters.



6.17 Urine bag holder



Warning:
Caution

The maximum loading is 4 kg!

It serves for the lodgment of the urine bag (maximally 2 l). It is not possible to combine the lockable box and the holder for an urine bag on the same side of the arm-chair.



6.18 Front buffer



Warning:
Caution

The maximum loading is 45 kg!

We recommend it in case of frequent transportation of the chair. Without these accessories, artificial leather can be damaged in case of a collision of the chair with an obstacle!

It serves as a protection of the arm-chair during frequent transportation of the arm-chair with/without a patient. An ergonomic design allows also for a function of a transport handle in the horizontal position of the arm-chair.



6.19 Infusion stand

The stand is made of stainless steel. It is possible to perform its telescopic adjustment.



Warning:
Caution

The maximum carrying capacity of one hook is 2 kg!

It serves neither for manipulation with the arm-chair nor as a handle for transportation with the arm-chair.



6.20 Eating table (version with barriers)



Warning: Caution

The maximum carrying capacity is 15 kg!

During installation of the table or during its extraction, it is always necessary to pay attention on a patient who seats in the arm-chair. It is necessary to avoid a collision with his/her head, body, fingers!

When the table is mounted, it is never allowed to tilt the barriers down.

The table is only allowed to take off when it is empty. In the event that it is not empty, its content can be overturned onto the patient (it could be refreshment, drinks, a notebook, and personal things)!

After having taken off, please save the table in a safe and dry place.



Installation and take-off procedure

While installing the table, firstly mount two fixtures of the table on the left barrier (when viewed from the patient's side seating on the arm-chair). Slightly pull out the table upward and rotate it to the horizontal plane. The fastener of the table has to clap on the other side; press the right barrier toward you and push this fastener down. The installed table can be (depending on patient's complexion) shifted in the barriers. Demounting of the table is performed in the opposite order.



6.21 Eating table (for the version with elbow-rests)



Warning: Caution

The maximum carrying capacity is 15 kg!

During installation of the table or during its extraction, it is always necessary to pay attention on the patient who seats in the arm-chair. It is necessary to avoid a collision with his/her head, body, fingers!

When the table is mounted, it is never allowed to position the elbow-rests.

The table is only allowed to take off when it is empty. In the event that it is not empty, its content can be overturned onto the patient (it could be refreshment, drinks, a notebook, personal things)!

After having taken off, please save the table in a safe and dry place.

Installation and take-off procedure

While installing the table, firstly mount two fixtures of the table on the left barrier (when viewed from the patient's side seating on the arm-chair). Slightly pull out the table upward and rotate it to the horizontal plane. The fastener of the table has to clap on the other side; press the right barrier toward you and push this fastener down. The installed table can be (depending on patient's complexion) shifted in the barriers. Demounting of the table is performed in the opposite order.

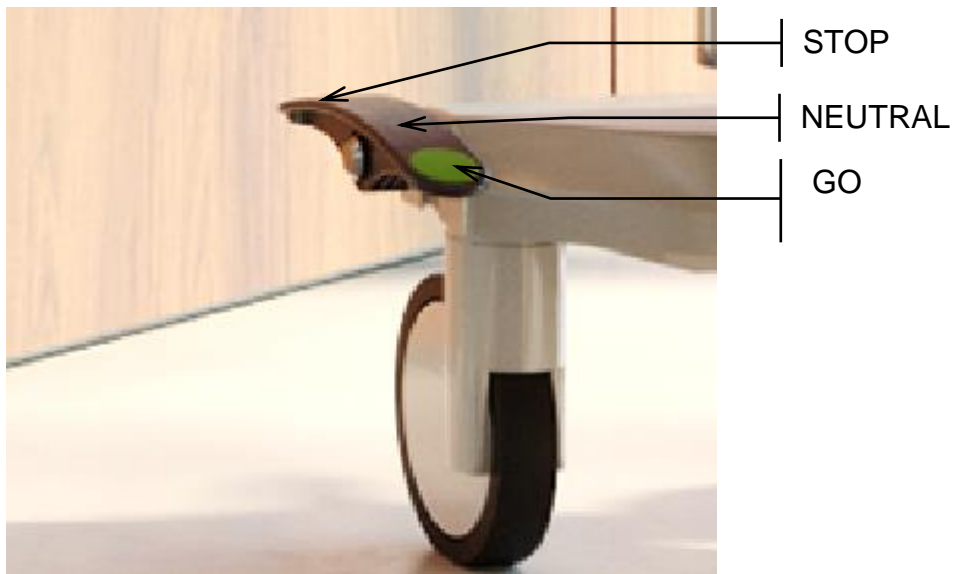


6.22 Front central brake (a pair)

The arm-chair is equipped with a front central brake only for the version with 150 mm wheels for an additional fee. The functions of the wheels are controlled by the brake pedals. Adjustment of the wheel pedal:

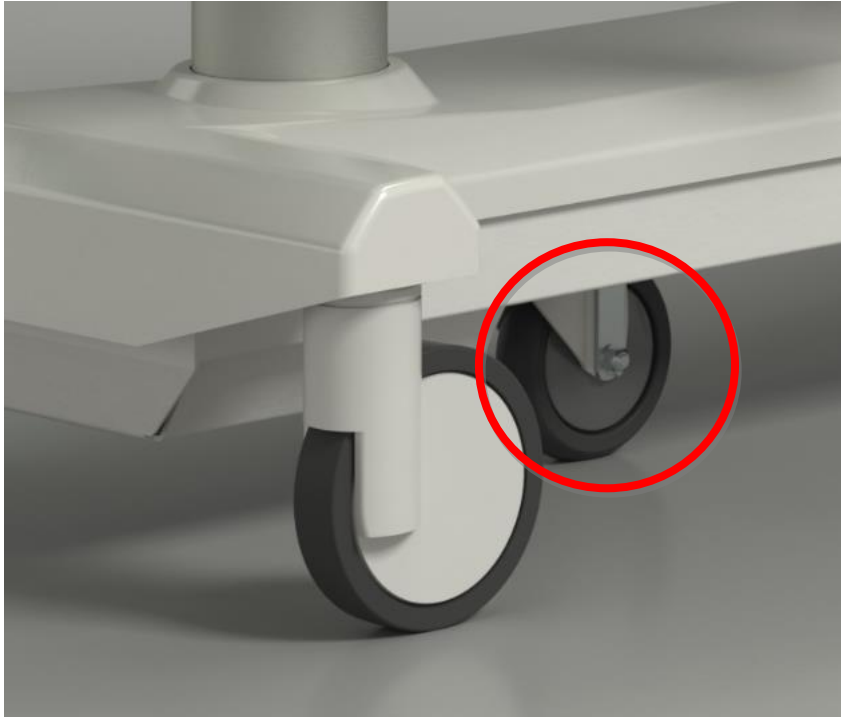
| | |
|---------|---|
| STOP | All wheels are blocked |
| NEUTRAL | All wheels are unblocked and rotate around their axes. |
| GO | Directional guidances with the help of the front or fifth wheel. The remaining wheels are free and rotatable on their axes. |

Meaning of symbols for braking the control pedals:



6.23 Fifth wheel

The arm-chair can be equipped with a fifth wheel placed in the center of the support frame. The fifth wheel allows you to run and navigate the arm-chair in long corridors and small rooms. The version is only with 150 mm wheels.



How to activate the fifth wheel:

1. Disconnect the arm-chair from the main connection.
2. Modify the control of the wheels so that the green lever was directed down (GO).



6.24 Electric leg rest



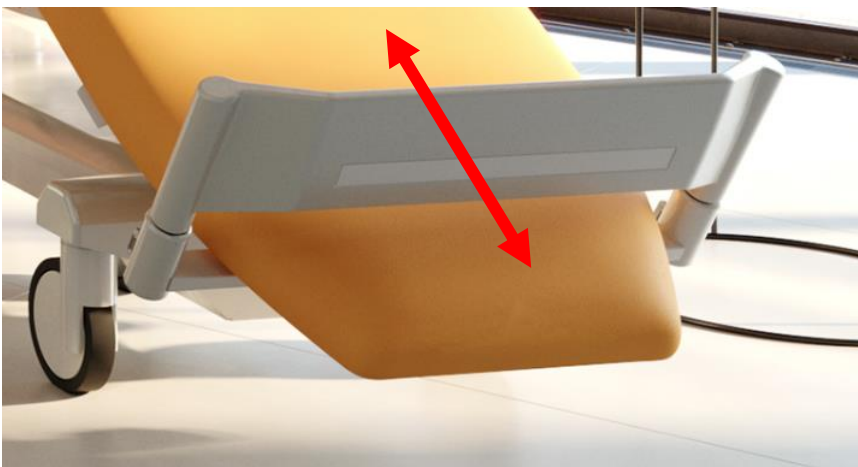
Warning: Caution

The leg rest doesn't protect the arm-chair against a stroke!

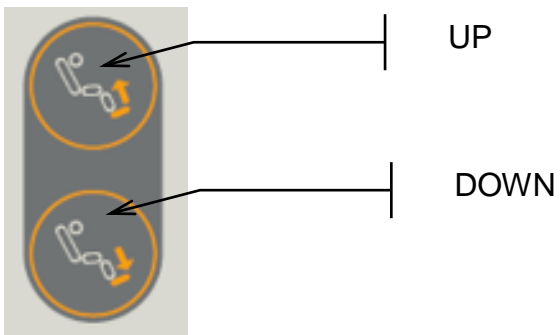
The electric leg rest can't be combined with the front buffer!

We don't recommend suspension of other accessories on the leg rest!

The maximum capacity is 45 kg vertically and 100 kg when squeezed!



Displacement is possible with the help of the manual controller by holding the push-buttons up and down.



6.25 USB cell-phone recharger

6.26 Patient fixation band



Warning: Caution


While positioning the arm-chair, always unbind the patient for his/her safety and comfort. It is especially valid for the movement of the back part and the seat part.

In the case of the use of the fixation band, it is recommended to place the arm-chair in the lowest position.

To ensure higher patient's safety, patients can be fixed on the arm-chair with the leatherette strap in the field of their belly and breast. The accessories is mainly used in a situation when there is a danger of falling down the patient from the arm-chair. The rear holder is designed for the fixation of the leatherette strap.



6.27 Front / rear transport handles

| | |
|---|----------------------------|
|  | Warning: Caution |
| The maximum capacity is 45 kg vertically and 100 kg when squeezed! | |

It serves mainly for easier transportation of the arm-chair with a patient in the horizontal position.



6.28 Height-adjustable elbow-rests

6.29 Elbow-rests with cavities for elbows



6.30 Mechanic CPR



Warning:
Caution

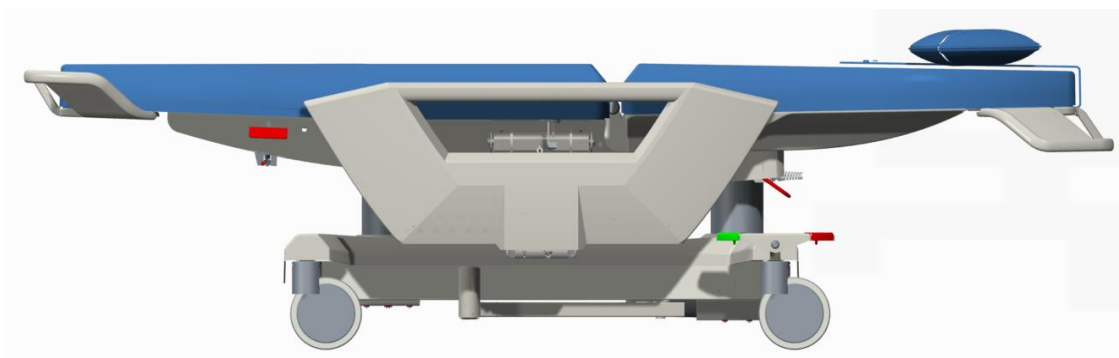
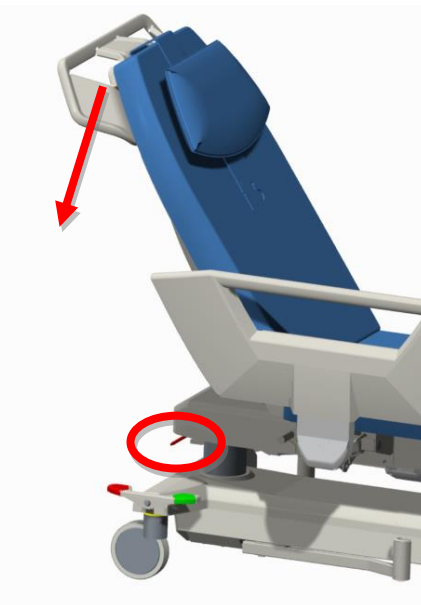
The CPR controller is marked by informative labels on the both sides under the rear section. The labels are marked by a CPR text.

The CPR doesn't serve for individual settings of the back part to different positions, neither for saving time by personnel. To position the back part, always use the function on the manual controller. With the help of the CPR position, it is always necessary to lower up to the lowest, it means straight, position.

The back support has to be loaded during movement (for example, by the patient's weight).

Its movement must be controlled by the personnel. To activate CPR, we recommend you to use one hand and to hold the back section by the second hand.

You can activate the function by pushing the red lever by one hand in the specified direction. Use the second hand to lower the back section with the help of the handle on the rear section. Permanently hold the lever during this movement. To return the back section to the original position, use the motorized positioning (activated by means of the manual control).



6.31 Patient card holder

6.32 Drinking vessel holder

It serves for fixing a can or a cup with drink. Before removing the hold, it is always necessary to take out its content. Afterwards rotate the holder by 90° downward and remove it from the barrier. In case of installing, please proceed in the opposite order.



6.33 Cell-phone pocket

6.34 Mattress with higher comfort (120mm)

6.35 Backup battery



Warning:
Caution

Only service personnel is entitled to replace the battery!
The battery replacement by insufficiently trained personnel is dangerous and can reduce functionality of the medical device!
The battery is charged automatically from the control unit and requires no special maintenance.
If there is a difference between the temperature of the chair and the ambient temperature (transportation/storage) in the place where you intend to install the chair, it is necessary to wait 24 hours until the chair temperature was stabilized to the room temperature. Then connect the power.
Use the battery only in crisis situations (for example, power outage, transport of a patient, etc.).
On the next connection of the chair to the power, charge the battery to its full capacity.
A defect battery can generate gas. Occasionally it can cause deformation of the battery box and the control unit. If it happens, the chair must be immediately put out of service and store in a well-ventilated room without sparking (neither electrics nor fire)! Inform immediately the service department of the producer!

To achieve declared service life of the lead batteries, it is recommended that the following actions be taken during storage:

1. Exclude their deep discharge (state of charge under 70%) and maintain them at least partly charged by means of regular charging.
2. Store them in a dry and cold place (from 10°C to 0°C).
3. Do not expose them to direct sunlight.

The battery supplied with the chair is not charged. The battery only serves as a backup power supply in case of power outage or for patient transportation.

- The chair must be only equipped with batteries approved by the manufacturer.
- The manufacturer gives 6-month warranty for the full functionality of the battery.
- These batteries maintain smooth functioning only for a certain period of time, which is given by general physical and chemical laws and by the method of application. The user has an obligation to monitor the state of charge of the accumulators and recharge them according to the service instructions. It is necessary to check the batteries by away specified in the service instructions at least once a month.
- The manufacturer recommends that the batteries should be replaced by a service organization after 2 (two) years. The assumed service life of the battery ends at the end of this period, and the manufacturer is not able to guarantee service life of the battery.
- After 5 (five) years, however, it is necessary to replace the battery by a new one approved or recommended by the manufacturer.
- The manufacturer has no responsibility for damage of the chair or the battery caused by: a failure to comply with the manufacturer's manual or the service instructions; the use of other battery for the chair; replacement of the battery by an unqualified service organization.

The battery is evaluated as defective in case that one of the following conditions is valid:

- permanent charge of the battery (longer than 12 hours)
- low battery voltage
- low battery charging current

The state of "fault battery" is:

- indicated by permanent lighting the battery indicator

The battery is evaluated as discharged under the following condition:

- defined voltage decline depending on the discharging current

The state of "discharged battery" is:

- indicated by quick flashing the battery indicator

Indication of the battery status

| Yellow LED diode | Battery status |
|--|--|
| No light | Battery capacity is sufficient (the battery is fully charged before the start of the use) |
| Short flashes (short flash, longer period without lighting) (1.8 sec. about) | Battery charging - continue charging until the indicator lamp goes out. In emergency cases, it is possible to use the battery as a backup power supply. If the indicator lamp continues flashing after 12 hours or terminates flashing but it is impossible to position the chair, it means that the battery is defective (please, contact the manufacturer). |
| Long flashes (long light, short period without lighting) (0.2 sec. about) | Low battery voltage - it isn't allowed to use it as a backup power supply, even for a short term; the battery is fully discharged or defective (in the case of long-term signalization of this type, it is necessary to replace the battery - it is a service operation). |
| It lights continually within a few hours (about 10 hours), in spite of the chair is connected to the mains | The absence or the failure state of the battery (the batter is incorrectly connected, there is an interrupted connection between the power supply and the battery, or there are defective fuses of the battery), in case of this signalization, please contact manufacturer service. |

Battery Activation if ordered as option



Warning:
Dangerous voltage

With regard to the possibility of unwanted switching on of PURA upon packaging, transport and unpacking, the battery is normally disconnected from the equipment.

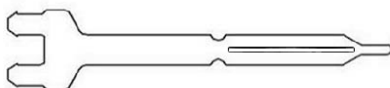
If isolating foil is damaged, contact the manufacturer's service department immediately.

The following pictures show how to connect the battery. Only service technician approved by manufacturer performs this procedure. To remove isolating foil:

1. Remove isolating foil from mains control box by pulling strap.



2. Check if isolating foil is complete and undamaged as shown in figure Detail of Isolating Foil.



7 Care

All BORCAD Medical a.s. products are designed for many years of service under the conditions of correct use. Please use your chair and its accessories carefully. Please follow these instructions and the herein described chair operation procedures. Avoid negligent handling. Do not, in case of a function failure, undertake any repairs and never use force!

7.1 Cleaning and disinfection



Warning: Caution

Do not use any automated cleaning or disinfection methods!

For basic cleaning use a soft cloth and only a mild solution of an alkali multi-purpose cleaner (soap water).

For disinfection, we recommend using standard preparations for disinfection of surfaces based on for example quaternary ammonia compounds, aldehyde preparations, peroxy-compounds and preparations containing active chlorine. The dilution ratio recommended by the producer of these products must be followed at all times!

Do not use any abrasive washing aids or ketone based solvents (such as Nitro, Acetone, etc.).

By using an inadequate amount of water you risk water leakage into the motor parts of the product, which may damage the electric wiring and render the product not functional.

In case of improperly performed cleaning and disinfection, there is a risk of nosocomial infection.

Put the upholstery on dry chair areas only.

When cleaning, place the footrest upholstery on the flat side.

This medical device with all its parts and accessories is not designed to undergo sterilization.

BORCAD Medical a.s. is not responsible for damage to the cushioning (e.g. cracking, paint flaking etc.), which would result from improper use of disinfectants. In such cases, warranty claim shall not apply.

In terms of the hygienic preparation process, that the corresponding dialysis centers or day surgery center room and all the furnishings and medical devices used, must be cleaned or disinfected directly and promptly after an occupancy in order to prepare the premises for a new occupancy. This means that such cleaning affects all parts of the chair. Due to a rapid change of patients in one place, there is an increased demand on the best possible balance between necessary and possible cleaning procedures. The procedure must be examined and reconciled with and / or supplemented in the hospital guidelines, recommendations for hygiene plans and implemented measures. After patients with a known infection, special cleansing and disinfecting measures must be used. Such procedures are subject to hospital directives as described above and must be clarified accordingly. For infection control, it is recommended to use prefabricated, protective covering drapes and / or covering fabrics which additionally cover the hygienically sensitive components of a chair - seat, back, and foot section to avoid the skin contact of the patient with the upholstery.

7.1.1 Cleaning the chair

1. Supporting area including the head pillow starting from the head section toward the lower section;
2. Hangers and hand grips;
3. Siderails/armrests;
4. Frame of the chair;
5. Lift the left chassis plastic cover and clean dirty areas.
6. Infusion stand and holder;
7. Casters and brake pedals.

7.1.2 Recommended disinfection (disinfectants for wiping)

| Disinfection material | Concentration | Chair |
|--------------------------------|---------------------------------|---------------------------------|
| Bacillol AF | 100% | √ (do not use for upholstery *) |
| Bacillocid Rasant | 100% | √ (do not use for upholstery*) |
| Dismozon Pur | 100% | √ |
| Incidin Plus | 100% | √ |
| Incidin Rapid | 100% | √ |
| Lysoformin 3000 | 100% | √ |
| Lysoform Special | 100% | √ |
| Mikrobac Forte | 100% | √ |
| Mikrozid AF liquid | 100% | √ |
| Perform | 100% | √ |
| terralin® protect | 100% | √ |
| thermosept® | 100% | √ |
| Glutaraldehyde | 2% | √ |
| Chlorine | 43% | √ |
| Iodine | 10mg active iodine/1ml solution | √ |
| Peracetic acid | 0,8% | √ |
| Hydrogen peroxide | 2% | √ |
| (Quaternary ammonium compound) | 0,5% | √ |
| Ethanol | 96% | √ |
| Isopropyl alcohol | 100% | √ |
| Carbethopendinium bromide | 8,3mg in 1ml | √ |
| Detergent | 100% | √ |
| H2O | 100% | √ |

| | | |
|--|------|---|
| Distilled water | | |
| H ₂ O ₂ | 3% | √ |
| NaCl | 10% | √ |
| Soapy solution | 1% | √ |
| Sodium bicarbonate (NaHCO ₃) | 20% | √ |
| Citric acid | 10% | √ |
| Sodium carbonate Na ₂ CO ₃ · 10H ₂ O | 20% | √ |
| Ammonia 25% NH ₃ | 5% | √ |
| Acetic Acid 80% C ₂ H ₄ O ₃ · | 10% | √ |
| Benzalkonium chloride 20,0 g Phenoxypropanol 35,0 g | 10% | √ |
| Novalon 2000 | 100% | √ |
| Desam OX | 100% | √ |
| Neodisher TS | 100% | √ |
| Neodisher Dekonta | 100% | √ |

**high alcohol content - can lead to drying-out of the artificial leather material*

8 Maintenance

Treads of fastening screws or the joins on the frame parts may get degreased by disinfectants. In these cases, timely lubrication prevents costly repairs.



Warning:
Dangerous electric voltage

Within the scope of annual regular revisions of a medical equipment, it is necessary to check the battery voltage (loadless). If the measured value is below 12V (24V in case of measuring two battery cells together), it is necessary to replace the battery immediately.

8.1 List of error, malfunction and generated messages

| Problem description | Likely cause | Action to be taken by the operator to solve the problem | Actions to be taken by the qualified service personnel |
|--|--|---|--|
| The chair does not react to commands. | Probably the chair is not plugged in and the battery is already fully discharged. | Connect the power cable to the mains and also to completely recharge the battery if fully discharged. | Verify that the mains are under current and that the socket is working. Use another socket. |
| The hand controller or one of the buttons of the hand controller does not react. | The hand controller is blocked, or the hand controller is not working. | Unlock the hand controller helping yourself with a magnet/special key. | Verify whether the chair works with another hand controller. If so, replace it. |
| The hand controller or one of the buttons of the hand controller does not react. | The cable connecting the hand controller with the chair is not properly plugged into the connector of the chair. | Make sure visually the cable connecting the hand controller is plugged into the chair. | Verify whether the chair works with another hand controller. If so, replace it. |
| One of the engines fails to react. | The cable that connects the engine with the chair is not inserted into the connector of the Chair. | Make sure visually the cable connecting the engine is plugged in to the chair. | Verify that the chair works with another engine. If so, replace it. |
| After back up battery is fully charged the chair is still not working on the battery | Life time of the battery is over | Make sure visually the cable connecting the hand controller is plugged into the chair Make sure visually the cable connecting the engine is plugged in to the chair. | Within the scope of annual regular revisions of a medical equipment, it is necessary to check the battery voltage (loadless). If the measured value is below 12V (24V in case of measuring two battery cells together), it is necessary to replace the battery immediately Verify whether the chair works with another hand controller. If so, replace it. Verify that the chair works with another engine. If so, replace it. |
| The chair cannot be set with the help of position push-buttons | The GO push-button wasn't pressed | Press the GO push-button | Contact service |
| The chair cannot be set with the help of position push-buttons | The Lock push-button wasn't pressed | Press the Lock push-button | Contact service |

8.2 Technical parameters

| | |
|---|------------------|
| Rest area | |
| Total rest area length | 2123 ± 3 mm |
| Back section length | 965 ± 2 mm |
| Seat section length | 528 ± 2 mm |
| Foot section length | 630 ± 2 mm |
| Back section width | 590 – 385 ± 10mm |
| Seat section width | 590 ± 10mm |
| Foot section width | 590 - 388 ± 10mm |
| Back section mattress thickness | 90 – 58 ± 5mm |
| Seat section mattress thickness | 100 ± 5mm |
| Foot section mattress thickness | 100 – 75 ± 5mm |
| Dimensions | |
| Minimum height – castors 100mm | 554 ± 3mm |
| Maximum height – castors 100mm | 934 ± 3mm |
| Minimum height – castors 150mm | 590 ± 3mm |
| Maximum height – castors 150mm | 970 ± 3mm |
| Vertical lift | 380 ± 3mm |
| Maximum height of the chair – sitting (lower) position – castors 100mm | 1417 ± 5mm |
| Maximum height of the chair – sitting (lower) position – castors 150mm | 1454 ± 5mm |
| Maximum length of the chair – lying position – back section with handle + foot section empty | 2203 ± 5 mm |
| Maximum length of the chair – lying position – back section with handle + foot section with handle / foot support | 2278 ± 5 mm |
| Maximum length of the chair – sitting position | 1715 ± mm |
| Chair width – side supports in upper position | 740 ± 5 mm |
| Chair width – side supports in lower position | 778 ± 5 mm |
| Chair width – armrests in basic position | 892 ± 5 mm |

| | |
|---|---|
| Castors | |
| Castor diameter / brake | 150 mm / central, total |
| Castor diameter / brake | 100 mm / without central, total |
| Adjustment angles: | |
| Back section adjustment angle | $0^{\circ} \pm 1^{\circ} / +70^{\circ} \pm 2^{\circ}$ |
| Seat section adjustment angle | $0^{\circ} \pm 1^{\circ} / -12^{\circ} \pm 1^{\circ}$ |
| Foot section adjustment angle | $0^{\circ} \pm 1^{\circ} / +33^{\circ} \pm 2^{\circ}$ |
| Trendelenburg position | $-12^{\circ} \pm 1^{\circ}$ |
| CPR position | $0^{\circ} \pm 1^{\circ}$ |
| Armrest adjustment angle - vertical | $+42^{\circ} \pm 3^{\circ} / -8.5 \pm 3^{\circ}$ |
| Armrest adjustment angle - horizontal | 360° |
| Swinging upwards – measured in the sitting position | swinging by 122° |
| Permissible load | |
| SWL (safe working load) | 205 kg |
| Patient weight | 190 kg |
| Product weight (with siderails) | 113 kg |
| Product weight (with armrests) | 104,5 kg |
| Back section permissible load (125 mm from the edge) | 30 kg |
| Foot section permissible load (125 mm from the edge) | 45 kg |
| Side rail permissible load – vertical force | 70 kg |
| Side rail permissible load – lateral and horizontal force | 50 kg |
| Armrest permissible load – vertical force at the end of the armrest | 30 kg |
| Permissible load of the infusion stand holder - vertical | 8 kg (2 kg each hook) |
| Permissible load of the infusion stand holder – horizontally, 1m above the holder | 10 kg |

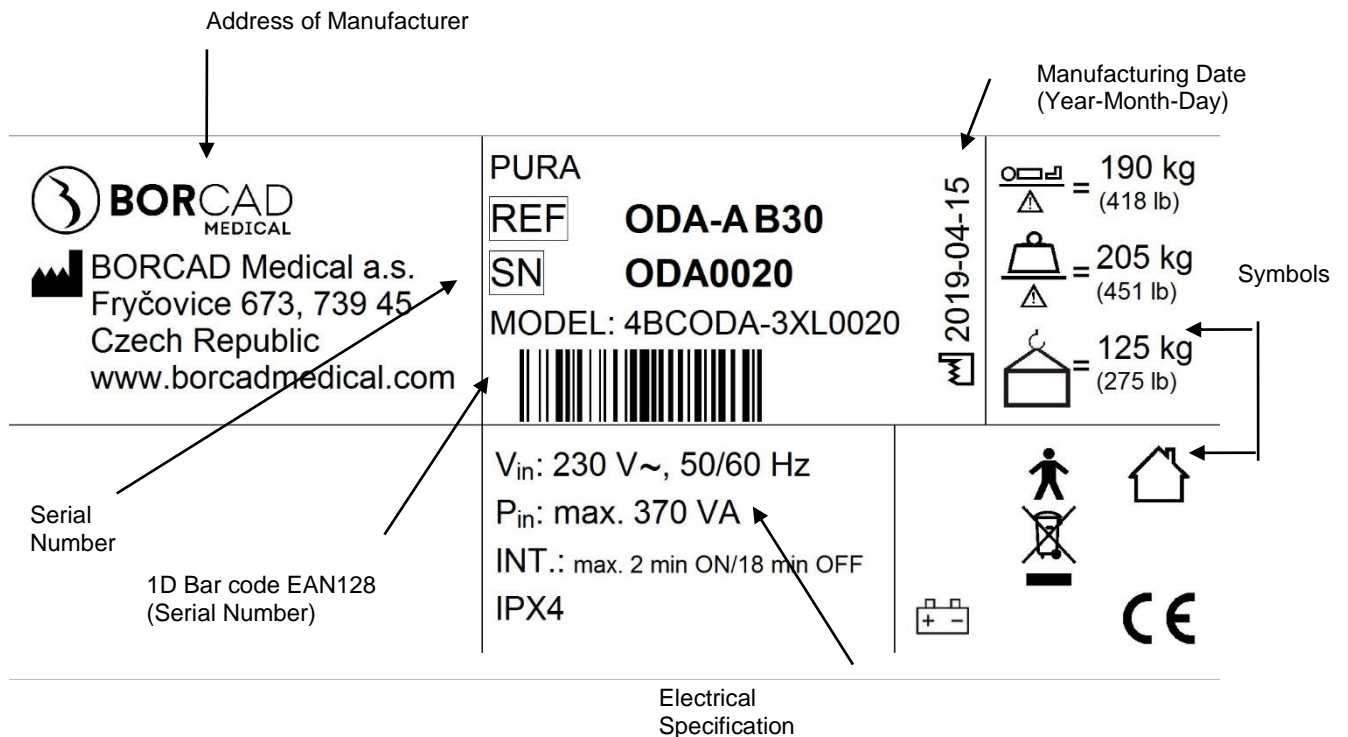
8.3 Electrical parameters

| | |
|--|--|
| Batteries – back-up | 24V/1,2 Ah |
| Voltage – input | 100 V |
| Voltage – input | 110 V |
| Voltage – input | 120 V |
| Voltage – input | 127 V |
| Voltage – input | 230 V |
| Frequency | 50/60 Hz |
| Motor voltage | 24 V |
| Ingress protection of the birthing chair | IPX4 |
| Device protection class | I. |
| Classification of applied parts | B |
| Maximum input | 370 VA |
| Chair fuses | 2x T1,6AL 250V |
| Battery | Pb AKU 2 x 12 V / 1,2 Ah / Fuse 15A |

8.4 Nameplate

Sample of a manufacturing nameplate

Illustrative picture



8.5 Storage instruction and transport

During storage and transport, no heavy objects should be placed on the chair. Putting extra object on chair during storage is not allowed. Chair must not come into direct contact with flames or other flammable materials.

Packed chair can be exposed for a period of 15 weeks to weather conditions with the following limit values

- ambient temperature (-20 up to +50°C)
- relative air humidity (from 10% up to 95%)
- air pressure in the area (500 hPa up to 1060 hPa)

8.6 Ambient conditions for operation

- ambient temperature (+10 up to +40°C)
- relative humidity (from 30% to 75%)
- air pressure in the area (795 hPa up to 1060 hPa)

8.7 Service and repairs



Warning: Caution

All service revisions, safety and technical inspections or service interventions must be executed only by a technician trained by BORCAD MEDICAL a.s. company.

Diagrams, lists of product parts, descriptions or other information intended to help the service personnel with the repair of product parts, repairable by the service personnel only as implied by the manufacturer, are available upon demand at the manufacturer.

The product is provided with the warranty period of 2 years on conditions that regular annual service inspections are carried out.

For all medical equipment produced by the BORCAD MEDICAL a.s. company, the operator must ensure regular technical safety inspections according to the producer's recommendation, thus the inspections must take place at least 1x per year or after the carrying out of any repair of the medical equipment or after any intervention regarding the electrical system of the medical equipment. The details about the scope, parameters and procedures of the technical safety inspection are specified in the service manual of the medical equipment.

The extended warranty does not cover:

- batteries (these are provided with the warranty of 6 months)

From practical testing results, the technical lifespan of the product is 15 years; lifespan of the battery is limited and must be replaced; gas springs need to be replaced every 12 years.

In case the product is not functioning, please contact the product dealer in your country. In case of any other problems, please contact (preferably in English) the manufacturer at:

For repairs, please use only the original BORCAD MEDICAL a.s. spare parts and the services of trained service technicians licensed to repair products of this type. Unprofessional repairs shall be considered as a substantial breach of the warranty terms and conditions and the manufacturer simultaneously does not bear any responsibility for any further possible damage to the product which might result from unprofessional intervention.

8.8 Applied parts

The applied parts of the product are of type B - providing a moderate degree of patient protection.

- padding / mattress
- armrests
- siderails

The applied parts of the product are of the BF type - providing a moderately high degree of patient protection.

- hand control



8.9 Declaration of conformity



Member of LINET Group

EC DECLARATION OF CONFORMITY

According to Council Directive 93/42/EEC, Annex VII

We,

BORCAD Medical a.s., based in Fryčovice 673, 739 45, Czech Republic,

ID company No.: 05342341

Incorporated in the Register of Companies by the Regional Court in Ostrava,

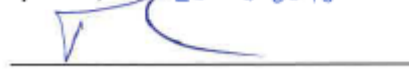
file number B 10855 as a producer of the medical device

| | |
|--|---|
| <u>Name:</u> | Multifunctional chair |
| <u>Type designation:</u> | PURA ODA (Models are specified in the technical documentation of the product) |
| <u>Specified purpose of use:</u> | Electronically position able standard care chair. The essential functions of this chair are lying, sitting and supporting the patient. |
| <u>Classification of the medical device:</u> | Class I nonsterile, without measuring function, according to Annex IX MDD 93/42/EEC – rule 12 |

declare herewith that properties of the product mentioned meet Essential requirements of the Medical Device Directive, 93/42/EEC as amended by European Parliament and Council 2007/47/EC. The product's characteristics comply with applicable specific requirements in regulation (EC) No 1907/2006 and in directives: 2006/42/EC, 2011/65/EU. Evaluation of conformity was carried out according to Annex VII of Council Directive 93/42/EEC as amended.

The product mentioned complies with the following harmonized standards, which were used for assessing of conformity: EN 60601-1 ed. 2:2007/A1:2014, EN 60601-1-2 ed. 3:2016, EN 60601-1-6 ed. 3:2010 + A1:2015, EN 62366:2007, ČSN EN ISO 13485:2016, ČSN EN ISO 14971:2012, ČSN EN ISO 10993-1:2010, ČSN EN ISO 10993-5:2010, ČSN EN ISO 10993-10:2014

In Fryčovice, date: 29.03.2019



Martin Těšitel, CEO



stamp



9 Disposal

9.1 Environmental Protection

BORCAD MEDICAL a.s. is aware of the important role that the protection of our environment plays for future generations.

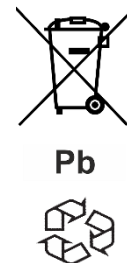
The materials of this product are environmentally compatible. It does not contain hazardous substances on the basis of cadmium, mercury, asbestos, PCB or CFC. Noise emissions and vibrations meet the directives for healthcare facilities. BORCAD MEDICAL a.s. has taken care to ensure all wood used in the production of its chair systems is responsibly source (Mahogany, Jacaranda, Ebony, Teak or wood from Amazonian / rainforests are not used). Packaging materials are produced according to the respective directives. Please ensure packaging materials are disposed of according to the symbols displayed and taken to an authorised disposal location. The product consists of recyclable steel, plastic and electronic components.

The device materials are reusable. By reusing, recycling, or otherwise using old equipment, you make a significant contribution to protecting the environment.

Accumulator / batteries

Can be handed to the local waste disposal system. Please dispose of the product in accordance with applicable local waste rules: (skilled personnel, user's duties), prior to disposal or repair the product must be cleaned and disinfected.

Respecting the proper disposal of this product you contribute to the conservation of precious natural resources and help prevent potential negative effects on the environment and human health which could be the result of improper disposal of waste. For more details please contact the authorities responsible for the protection of the environment, or the nearest collection point for segregated collection of waste.



9.2 Disposal

Dispose of the chair or its components in accordance with local laws and regulations:

- After using the chair
- Following maintenance and installation work
- Hire an approved waste disposal company for disposal.

10 Warranty

BORCAD MEDICAL a.s. will only be held responsible for the safety and reliability of products that are regularly serviced 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 chair.

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.

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