



Barella
mobile shower trolley

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1. GENERAL INFORMATION

This manual contains information for practical, correct and safe use of the device and is intended for reading by specialised personnel and the user of the product. It is recommended that you read the entire manual carefully before using the product.

If you have any doubts or need clarification, please contact your dealer who will be able to advise you correctly.

The importance of reading and understanding the user manual is highlighted on the product by the following symbol:



The manufacturer declines any responsibility for damage to persons or property resulting from improper use of the device or in any case other than that provided for in this manual.

The manufacturer reserves the right to make changes to the product and the manual without prior notice in order to improve its characteristics and performance.

1.1 CONTACT WEALDEN REHAB

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<https://wealdenrehab.com>

hello@wealdenrehab.com

2. PRODUCT DESCRIPTION AND INFORMATION

2.1 DESCRIPTION

Shower trolleys ideal for hygiene care to recumbent patients, in environments such as medical facilities, care homes, rehabilitation and geriatric units.

They must always be used under the supervision of an attendant who has read and understood the entire content of this manual.

The whole frame was treated with a special anti-corrosion process, the patient platform is made of ABS plastic; side rails and fasteners are in stainless steel, and castors are washable.

In some versions the platform can be tilted up to 5° by means of a gas spring to allow water to run off easily and up to 12° head side to allow Trendelenburg function. They are equipped with folding safety side rails and a comfortable mattress upholstered in waterproof fabric. Some models have a large backrest end that can be adjusted using a servo-assisted gas spring system. The platform height can be adjusted using an electric actuator powered by rechargeable battery using an handset, or a foot pedal-operated hydraulic actuator.

2.2 INTENDED USE

Trolleys for Hygienic operations over patients.

The use of the device for purposes other than those defined in this manual is prohibited.

2.3 USERS

Nurses, professional caregivers, clinical operators, doctors, physiotherapists, and therapists.



It is up to the specialist to judge the physical fitness of the patient for whom the product is intended to be used.

Use under operator supervision is always mandatory.

2.4 GROUPS OF PATIENTS AND CLINICAL CONDITIONS

There are no particular categories of patients that can be excluded if not patients who show evident conditions of impossibility of personal hygiene operations (shower, preparing).

2.5 APPLIED PARTS

The applied parts of the device are: the mattress, the side rails, the ABS platform and the frame that supports the platform and the mattress. Usually the contact of the patients with the mattress is daily and up to 45 minutes per session, with more than 10% of the body surface and more than 10% of the head, and patients can be children, so choose carefully the water temperature to use and below 40°C.

2.6 ENVIRONMENT OF USE

Clinical/hospital environment. Use on flat, stable and obstacle-free surfaces. Not for outdoor use.

Application environment of type 5: outpatient care administered in hospital or other medical centre under medical supervision, in which the EM devices are provided for the needs of sick people who have suffered injuries or are carriers of disability, for the treatment, diagnosis and monitoring.

Ambient Temperature	Relative Humidity Range	Atmospheric Pressure
5°C ~ 70°C	20%~80%	700hPa~1060hPa altitude ≤ 3000 m



When the patient is on the trolley, the mattress temperature shall not exceed 40°C

2.7 STORING

Store in a dry place at room temperature. Avoid excessive pressure and contact with discolouring materials. Avoid excessive exposure to direct sunlight.



Ambient Temperature	Relative Humidity Range	Atmospheric Pressure
5°C ~ 70°C	25%~85% @30°C without condensing	700hPa~1060hPa altitude ≤ 3000 m

2.8 MANUFACTURER'S DECLARATIONS

The manufacturer declares that:



- the device is not a measuring instrument
- the device is not intended for clinical investigation
- the device is not sterile and is not for single use
- for a correct functioning and for the safety of the user, it is necessary that the ordinary maintenance operations are carried out as described in the relevant paragraph.
- the device cannot be used for purposes other than those stated in this manual

3. WARNINGS AND USE RESTRICTIONS

Always refer to this manual for proper use of the device.

- Store the device in an environment that complies with the labels on the packaging and the specifications in this manual.
- The useful life of the product is 10 years in accordance with the correct execution of the ordinary maintenance operations provided for in this manual. It is strictly forbidden to use the device beyond its stated useful life. At the end of its useful life, it is possible to proceed as described in the relevant paragraph
- The manufacturer shall not be liable, to the fullest extent permitted by applicable law, for any direct or indirect, special, incidental or consequential damages caused by:
 - o Wrong use of the device
 - o Improper use of the device and outside of its intended use
 - o Use of the device beyond the stated service life in this manual
 - o Using the device in environments not covered by this manual
 - o Use with unsuitable patients
 - o The distraction of operators or incorrect application of commands and adjustments
 - o Use without checking the status of the device as described in the relevant paragraph
 - o Incorrect maintenance or lack of maintenance
 - o Use with parts or accessories that are not compatible or not approved by the manufacturer
 - o Incorrect disposal or disposal is other than as described in this manual.

The device is equipped with labels to draw attention to particular dangers such as:













	Hand crushing hazard		Foot crushing hazard
	General Warning		Electric shock hazard




3.1 SERIOUS ACCIDENTS




In the event of serious accidents involving the device, the user is required to promptly notify the manufacturer and the competent authority of the member state in which the device is installed.

3.2 SYMBOLS ON LABELS AND DEVICES






	Follow the instructions for use
	Applied part type B
	CE certified
	Dispose of properly
	Manufacturer
	Manufacturing date
	Indoor use only
	Electrical safety class 2
	CAUTION / WARNING The warning messages inform the user of the risk of accidents or hazards if, during operation or maintenance operations, the procedures and conditions indicated are not carefully observed.
	ELECTRIC LIFTING OF PATIENT PLATFORM (AC0039). This symbol is present on the hand control. Keeping the button pressed, the patient platform is electrically lifted.
	ELECTRIC LOWERING OF PATIENT PLATFORM (AC0039) This symbol is present on the hand control. Keeping the button pressed, the patient platform is electrically lowered.
	LOW BATTERY (AC0039) This symbol is present on the hand control. When it lights orange, accompanied by a sound, it indicates that the battery is running low.

	ELECTRIC LIFTING OF PATIENT PLATFORM (AC0083) This symbol is present on the multipurpose control. Keeping the pedal pressed in correspondence to this symbol the patient platform is electrically lifted.
	ELECTRIC LOWERING OF PATIENT PLATFORM (AC0083) This symbol is present on the multipurpose control. Keeping the pedal pressed in correspondence to this symbol the patient platform is electrically lowered.
	BATTERY CHARGE LEVEL The battery charge level is indicated on the control unit, each rectangle corresponds to 25% of the charge. When you arrive at less than 25% it is recommended to recharge the battery, while when you approach 0% STOP label will be shown


3.3 SYMBOLS IN THE MANUAL

	Warning!
--	----------

3.4 SYMBOLS ON THE PACKAGING

	Fragile
	Recyclable
	Keep dry
	Keep this side at the top
	Do not use sharp blades to open

3.5 SPECIAL WARNINGS

	<p>Don't use device when the working load exceeds the stated capacity.</p> <p>Don't use with the patient unattended and/or with side rails down.</p> <p>Don't use when the Patient and/or equipment are not stable enough.</p> <p>Don't use full of water. The drain plug must be closed only to not to drip water during transfers.</p> <p>Don't use if castors are not locked when transferring the patient from/to the trolley or during hygiene care.</p>
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Don't use if the original product has been modified or tampered with.

Don't use with even only partly faulty or defective controls and/or components .

Don't use when incorrectly configured or when you think it may cause damage to the patient or user.

Do not allow any body parts to enter the areas with moving components and/or controls.

Remember that the Shower Trolley safe working load don't include any water that is retained within the mattress's splash sides. Each cm of water will result in about 10kg or more of weight in excess.

Do not use water hotter than 40° C.

Do not use pressurized water jets

For electric versions:

Do not use the equipment in oxygen rich environments: explosion or fire hazard

Do not use the appliance in the presence of flammable agents: fire hazard.

To recharge the batteries, connect them to an electrical system that complies with current Regulations.

Do not pour any liquids on the equipment's electrical components.

Do not damage electric wires: avoid squashing, do not disconnect the various plugs by pulling directly on the wire.

Perform frequent checks on the state of electric wires and ask for them to be replaced if in doubt.

Do not use the electrical controls continually, but perform the duty cycles as specified in the : "Technical Specifications" chapter.

Preserve battery life by disconnecting it when not used for a long time.

Remove the battery before performing any work on the equipment's circuits.

The device can be influenced by other devices in the same environment of use by electromagnetic interference. See par. 15 for more details

The device can influence the other devices present in the same environment of use by electromagnetic interference. See par. 15 for more details

3.6 CONTRAINDICATIONS AND SIDE EFFECTS

No particular side effects or contraindications are known.

Always read the warnings before use.

3.7 USE RESTRICTIONS

Always connect to a water drain when performing hygiene operations.

Foam rubber castors and plastic components may burn if they come in contact with naked flames.



Corrosive and/or abrasive detergents may damage the upholstery and paint.

Water with a chloride or sulphide content exceeding the amounts allowed by the law may result in increased corrosion. Always check the suitability of patients before use.





Always respect the Safe Working Load. Remember that safe working don't include water that is retained within the mattress's splash sides.



LD31xx MODELS

	MAX PATIENT WEIGHT 150 kg		SAFE WORKING LOAD 170 kg
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LD32xx MODELS

	MAX PATIENT WEIGHT 180 kg		SAFE WORKING LOAD 200 kg
---	--	---	---

LD33xx MODELS

	MAX PATIENT WEIGHT 225 kg		SAFE WORKING LOAD 245 kg
---	--	---	---

3.8 STOP/EMERGENCY FUNCTIONS (ELECTRIC VERSIONS)

Emergency stop: In case of problems, malfunctioning during electrical height adjustment or any other emergency, press the red button to arrest movement. After any hazard situation has been removed, rotate the red button to reactivate movement.



Electric emergency descent: In case the electric lifting stop to work for any reason, the platform can be lowered at any time by pressing the "EMERGENCY" ↓ button with a pointed object. The device only operates when the battery is charged and connected.



3.9 LIST OF FREQUENTLY USED FUNCTIONS

The functions of the shower trolleys used most often are listed below. Refer to the respective paragraphs where the functions are explained in detail:

- Adjustment of the patient platform. See par. 7.2.1 and 7.2.2 for the electric versions and 7.2.3 for the hydraulic versions
- Inclination of the patient platform for water drainage: See par. 7.2.4
- Inclination of the patient platform to reach the Trendelenburg position: See par. 7.2.4
- Battery removal and recharge: see par. 7.2.11
- Re-inserting the battery: See par. 7.2.11
- Adjustment of the side rails: see par. 7.2.5
- End rails adjustment: see par. 7.2.6
- Backrest adjustment: see par. 7.2.7
- Patient transfer: see par. 7.2.9
- Patient washing: see par. 7.2.10
- Transport and brakes: See par. 7.2.8

4. AVAILABLE CONFIGURATIONS

The product is available in various configurations that differ from each other in:

- Type of target patient
- Platform size and side rail type
- Height adjustments and workload
- Types of wheels

The product code, shown on the product label, is used to identify all the characteristics of the device configuration.

You can fill in the code below so as to have a quick reference regarding the configuration of the product purchased

L	D	3							
1	2	3	4	5	6	7	8	9	

POSITION 1-2-3

They indicate the family model of the trolley

LD3	Shower trolleys
-----	-----------------

POSITION 4

Series, based upon target patient anatomy

	SERIES	SWL [kg]
1	Paediatric use	170
2	Adult use	200
3	Bariatric use	245

POSITION 5

Indicates the type of control for height adjustment

	CONTROL
C	Hydraulic with double pedal
D	Electric with hand control
G	Electric with foot switch on its holder

POSITION 6

Patient platform inner width

	AVAILABLE INNER WIDTH
1	60cm
2	68cm
3	80cm

POSITION 7

Available platform length due to adjustable end rails (head and foot side)

	PLATFORM LENGTH	END RAILS
1	188cm	Fixed
2	203cm	Head partially folding (40°)
3	218cm	Both partially folding (40°)

POSITION 8

Adjustable backrest

	BACKREST
1	Fixed, non-folding
2	Folding

POSITION 9

Wheels type and braking system

1	Ø 12.5cm with individual brake system
2	Ø 15cm with centralized brake system

5. CONTENT OF THE PACKAGE AND PRODUCT DESCRIPTION

The product is delivered in a suitable cardboard packaging so that it can be received intact and functional.

5.1 UNBOXING

To open the package and remove its contents, pay attention to the warnings and symbols on the package itself. The shower trolley are supplied with the mattress upside down and the end rail (head and foot side) mounted at reverse; before use it is necessary to restore them in the position of use following the assembly and first use instructions.



The equipment is heavy: transport, unboxing and commissioning operations must be carried out by several people. Pay attention while remove protections with scissors, some of them could have elastic effect.

Remove the plastic protections and all cable ties that are used to secure the content so that it's not damaged during transport. Dispose of the packaging and the waste material in an appropriate manner and follow the instructions in the packaging and in this manual.

5.2 CONTENTS OF THE PACKAGE

The package contains

- This Instruction manual
- Product already assembled with mattress upside down and end rails reverse mounted
- Drain kit
- Wall battery charger (only for electric versions)
- End rail blocking clamp (for the tilting end rail versions)
- Screws and spanners (as needed)

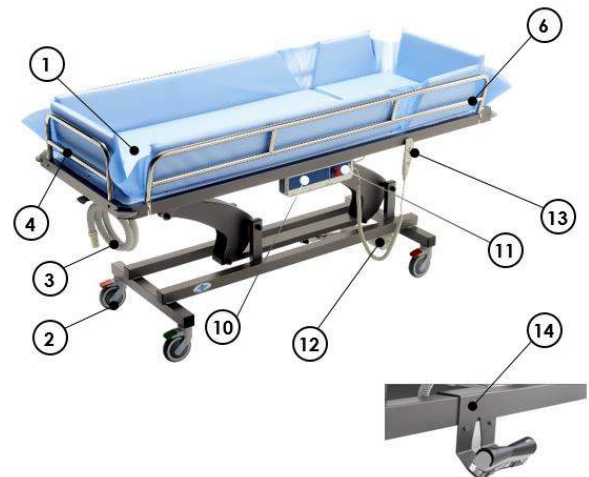
5.3 PRODUCT DESCRIPTION



1	Mattress	5	Backrest
2	Wheels with brake	6	Side rails
3	Drain Hose	7	Platform
4	End Rails		
FOR HYDRAULIC VERSIONS:			
8	Hydraulic piston	9	Pedals
FOR ELECTRIC VERSIONS:			
10	Battery	12	Electric actuator
11	Control box		

13 Hand control

14 Multipurpose ergonomic control



6. ASSEMBLY AND FIRST USE

6.1 ASSEMBLY

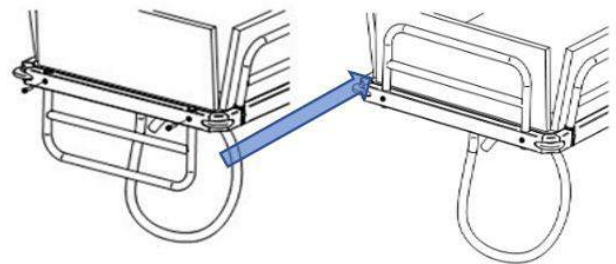
The device is delivered assembled. Pay attention to the mattress upside down and the end rail (head and foot side) mounted at reverse. Follow the instruction 6.1.1 and 6.1.2 before use.



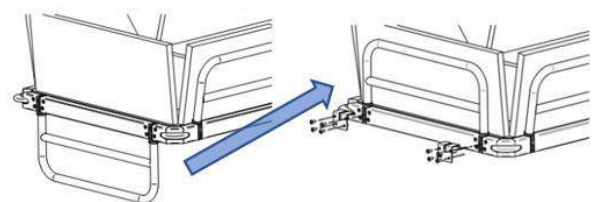
Do not use the device before all items are correctly installed and adjusted

6.1.1 END RAILS AND SIDE RAILS INSTALLATION

For the fixed end rails, unscrew with the provided spanner the two fastening screws that block the end rail, remove the latter from the bottom and insert it from the top, then tighten the screws again:



For the folding end rails, rotate the rail until in a vertical position, place the provided two blocking clamps and secure them using the screws.

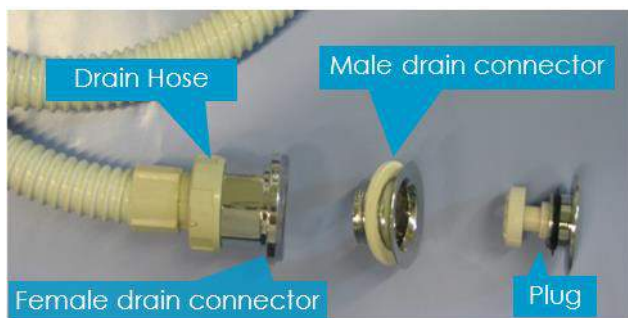


6.1.2 MATTRESS INSTALLATION

Please follow this step to correctly install the mattress.



Take the provided drain kit.



1. Couple the drain hose to the female drain connector. Two seals are provided to be inserted between the drain hose and the female drain connector. If one suffices on its own, keep the second as a spare part
2. Place the mattress so that the blocking clamps are at the bottom
3. Insert the male drain connector into the hole in the mattress from above, along with the thin white gasket and screw the drain hose on it from below after inserting the spacer gasket
4. Use the plastic spanner to tighten the female drain connector and subsequently insert the plug.



Centre the mattress on the trolley and check that the two clamps underneath the mattress fit into the slots in the plastic panel.

6.1.3 WALL BATTERY CHARGER INSTALLATION

The electric versions are also equipped with a wall battery charger.



The battery charger is equipped with a stainless steel metal bracket. Install it according to the environment and the wall where it is placed. If it is a concrete wall, use two 6mm

plastic raw plugs with a screw preferably made of stainless steel.



The battery charger must be installed in a position where a current socket is available in the range of the power cord and in a way that the power cord is easily disconnected in case of necessity.
Connect battery charger on a compliant electrical system
Plug only on mains that respect the voltage indicated on the battery charger

Use the following measures for positioning the holes (drawing not in scale):



Position the holes as vertically as possible using a plumb line. Once the raw plugs have been inserted, tighten the screws leaving a few millimetres before tightening completely and hook the bracket from above with sliding movement. Tighten the screws to lock the bracket. Insert the plug into the socket. Insert battery on the charger. The battery comes attached to the control unit.

Batteries must be fully recharged before use.

6.1.4 FOOT SWITCH CONTROL INSTALLATION

The electric versions equipped with foot switch control AC0083, have the possibility to position the pedal control in different places of the frame.

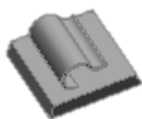
The foot switch must be fixed on its fixing flange AC0575 as shown in the following figure:



To install the fixing flange or move it to another point of the frame, unscrew the two screws on the front part until the back of the support is removed. Hook the support at any point on the frame, compatibly with the length of the cable and with the visibility of the control unit. Reposition the rear part of the support and tighten the front screws.

After choosing the position, twist the excess cable on the cable holder underneath the fixing flange. Then use the supplied data cable adhesive holders to guide the cable path to the control box so that the patient platform movement does not cause it to be crushed:





The control must be positioned in such way that the wiring isn't crushed by moving parts, using the supplied plastic supports to guide the cable route
The control must be positioned in such way that the operator has always at hand the red emergency button present on the control unit during the activation of the control.

6.1.5 BATTERY INSTALLATION

Make sure the battery is fully charged. Pick the battery from the charger pulling the release handle and sliding the battery. Use both hands to have better control since battery is quite heavy. Insert the battery by sliding it on the steel guide towards the control box on the shower trolley, make sure the handle clicks into position:



6.2 PRELIMINARY REGULATIONS

Place the shower trolley in the working position and check that it is on a stable surface. Use brakes to stop the trolley in a given position. **Make sure that battery is fully recharged before use.**

6.3 FIRST USE

Before proceeding with the first use, it is necessary to read this instruction manual.

Make sure that the product corresponds to what is described in this manual and that the contents of the package coincide with what is described in the relevant paragraph.

Before using the product for the first time:

- Make sure there are no more components of the device inside the packaging (screws, nuts, etc.)
- Make sure there are no obvious signs of damage or tampering
- Check the rotation and sliding of the wheels
- Make sure there are no obvious signs of loosening of the screws
- Fully charge the battery (only electric models)
- Insert the battery to the control unit and check its functionality by lifting the platform.

7. USE

7.1 WARNINGS BEFORE USE

Before each use make sure that:



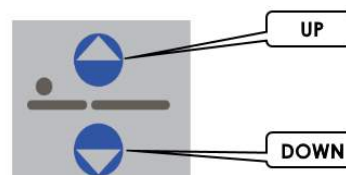
The product does not show any obvious signs of tampering or damage
The product has been sanitised in the parts in contact with the patient
The physical and clinical condition of the patient has been assessed and found to be appropriate for the use of the device.
The operating environment is in accordance with the provisions of this instruction manual. There are no particular hazards in the areas around the device (shelves, obstacles, flammable materials, etc. ...)
The battery is charged (only electric models)
The patient cannot operate the controls voluntarily or accidentally

7.2 USE OF THE DEVICE

7.2.1 ADJUST HEIGHT AND TILT USING THE HANDSET

For electric versions it is possible to adjust height with the hand control.

For the **LD31xx** and **LD32xx** model, there are only 2 buttons (soft membrane key):



Press continuously the **UP** button to lift the patient platform or press **DOWN** button to lower the platform. Releasing the buttons immediately stops the movement.

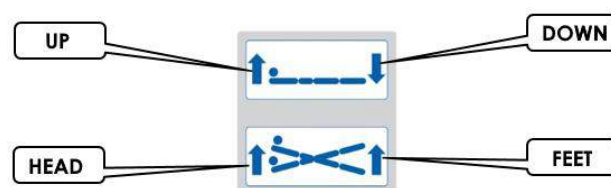


Keep the feet away from the points in which the central part of the mobile frame is inserted in the basic structure.



During electric height adjustment operations, the operator must be in the vicinity of the red emergency button that can be pressed in case of necessity

For the **LD33xx** model there are 4 buttons:



To adjust height press continuously the **UP** button to lift the patient platform or press **DOWN** button to lower the platform.

To adjust tilt press continuously the **HEAD** button to tilt the patient platform positively (head up) or press **FEET** button to tilt the platform negatively (feet up). When tilting the



platform, each time the platform is perfectly horizontal the control unit will beep for a second and the tilt movement pause for few seconds.

If the orange LED next to the battery symbol on the handset lights up during height adjustment, and an acoustic signal is heard at the same time, the battery is running low and it is advisable to recharge it.

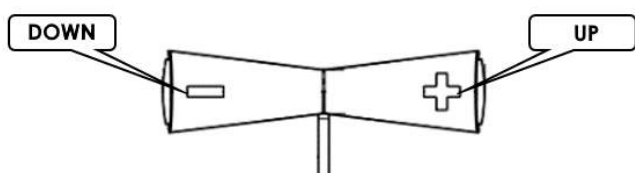


To get a clearer indication of the battery charge status, see the number of tracks present on the control unit display:



7.2.2 ADJUST HEIGHT WITH FOOT SWITCH COMMAND

The electric versions LD31 and LD32, except from the bariatric version LD33 with column lift, have the possibility to choose the foot switch control instead of the handset control. This command can be operated with the feet according to the point chosen during installation.



To adjust height press continuously the **UP** button to lift the patient platform or press **DOWN** button to lower the platform.



Keep the feet away from the points in which the central part of the mobile frame is inserted in the basic structure.



During electric height adjustment operations, the operator must be in the vicinity of the red emergency button that can be pressed in case of necessity

7.2.3 ADJUST HEIGHT IN HYDRAULIC VERSIONS

To adjust height on the hydraulic versions, pump the pedal lever down with the foot several times to lift the platform, until the desired height is reached.



To lower the platform, lift the lever with the foot until the desired height is reached.



Keep the feet away from the points in which the central part of the mobile frame is inserted in the basic structure.

7.2.4 ADJUST TILT MANUALLY

On LD31 and LD32 models, both electrical and hydraulic, it's possible to tilt the patient platform in order to reach Trendelenburg position (feet up) or water drain position (head up). To tilt patient platform hold the side rail or, in the versions with tilting end rails, the frame. Push the adjustment release lever upwards and tilt the platform.



Disengage the release lever once the desired inclination has been reached.



During tilt adjustments the patient must lie down
Make sure that during tilt adjustment the moving parts do not collide with adjacent masses
During transport and washing the shower trolley must be as planar as possible

7.2.5 OPEN SIDE RAILS

On all models the side rails can be opened in order to transfer the patient from the bed. To open the side rail, lift it with two hands and tilt it outwards. Accompanies the rail until is totally lowered.





To close the side rails repeat the operations at reverse, return it to the vertical position until it clicks into position. Check that the rail is well placed before leaving it.



Keep the side rails closed when the patient is on the mattress

7.2.6 FOLD END RAILS

On some models end rails are partially folding, about 40° tilt angle. To fold the end rail lift it with two hands and tilt it outwards, until the end position is reached.



To close the end rails repeat the operations at reverse, return it to the vertical position until it clicks into position. Check that is well placed before leaving the rails.

7.2.7 ADJUST THE BACKREST

The versions LD31 and LD32 with tilting backrest are fitted with a gas spring to adjust the tilt angle of the backrest up to +63°.

Pull the backrest adjustment lever upwards and with the other hand guide the platform into the desired position.



Keep hands away from the points in which the backrest crosses the side rails and from the point in which the backrest sit on the metal frame

7.2.8 TRANSPORT AND BRAKES

The shower trolley is equipped with pivoting wheels to allow manoeuvres in confined spaces; depending on the drive, the total brakes or the directional brakes are activated, which facilitates straight paths. During transport, the shower trolley must be positioned horizontally to avoid patient movement. The height of the platform is not relevant but it is preferable to keep a height that gives the operator comfort while pushing the stretcher but that does not affect the visibility of the path.



Parking brakes must be activated when transferring patient from the bed onto stretcher and when washing the patient

The directional lock does not act as a brake, to brake the trolley use the parking brake
Do not push the trolley sideways when the directional lock is on

7.2.8.1 CENTRALIZED BRAKES

On the models with centralized brakes, the castor brakes or the directional lock are applied simultaneously to the most near wheels. With the pedal in horizontal position, the brake is disengaged and the four castors can roll and swivel freely in all directions.



By pushing with the foot the pedal downwards on the outer side, pointed out by a red dot, the two most near castors lock simultaneously for all directions.



To lock all 4 wheels, it is necessary to act on the brake both on the foot side and on the head side of the shower trolley. By pushing downwards the pedal on the inner side, pointed out by a green dot, the wheels on that side is prepared to lock in the direction of travel.



By pushing the stretcher from the head side, the wheel is automatically positioned and locked on the straight



direction. With the inserted directional block, it is easier to proceed in a straight line. To disengage the brake or directional lock is necessary to put back the lever in horizontal position.

7.2.8.2 INDIVIDUAL BRAKES

On the models with individual brakes, each wheel has its own brake, except for one wheel that has the directional lock. To insert the brake, push downwards with the foot the red lever down on the outermost part. The same operation is valid for directional lock: push downward the green lever.



To disengage the brake push the red lever downwards on the innermost part. The same for the green lever to disengage the directional lock.



7.2.8.3 TRANSPORT

Move the trolley by holding the foot end rail or the head end rail after releasing all the brakes.

To go through 80 cm-wide doorways, pull the side rails inwards while passing through the door: they will go back to their original position when released.



Do not push the trolley sideways when the directional lock is on.
During patient transport the side rails must be closed and the patient must lie down. The platform must be as planar as possible.
Transport can be done only manually, DON'T use motor vehicles

7.2.9 TRANSFER THE PATIENT

To transfer the patient from bed to the trolley and vice versa, is possible to use a suitable harness or is possible to use the rolling technique. In the latter case, open one side rail of the bed and open one side rail of the shower trolley in order to get the head side of the trolley aligned with the

head side of the bed. Get as close as possible to that side of the bed with the open side of the shower trolley.



Adjust the trolley height so that the height of the platform is at the same level of the bed mattress. Help the patient to lay on the opposite side of the bed. Activate the brakes.



Help patient to roll onto the stretcher mattress.



Complete the transfer and unlock the wheels to step away from the bedside so you can close the side rail. Special transfer sheets that reduce friction between surfaces can be used to improve transfer comfort.

7.2.10 WASHING

When the washing location is reached, the park brake should be engaged as soon as possible.

7.2.10.1 PREPARE THE DRAINAGE

The hose attached to the mattress will drain the water during the patient washing, so before proceeding, make sure the hose is not obstructed. Place the hose end in the floor drain or toilet and open or remove completely the plug.



Remove completely or open the plug to avoid water accumulation and avoid the creation of an hazardous situation for the patient.

An excessive water volume would lead to aggravate the permitted load of the trolley and could drown the patient. Brake the wheels to avoid the movements of the stretch during the washing

7.2.10.2 WASH

Before washing, make sure that the plug is open or removed, that the wheels are braked. During washing, the shower trolley must be positioned horizontally to avoid patient movements or water accumulations. The height of the platform is not relevant but it is preferable to keep a height that gives the operator a comfort during the washing operations. The side rails must be closed and locked.



Do not use water hotter than 40° C.
Do not use pressurized water jets.
Do not direct any water jets at electrical parts
Remember that the Shower Trolley safe working load (SWL) don't include any water that is retained within the mattress's splash sides. Each cm of water will result in about 10kg or more of weight in excess.



Replace the battery preferably when the patient is not in the nearby.
Do not touch the contacts of the battery or battery chargers and the patient or any other accessible parts
Do not immerse the battery in liquids, do not invest the electrical parts with direct water jets

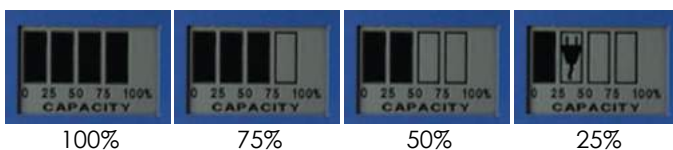
Put the battery on the provided wall battery charger and let battery to fully charge (about 8 hours).

7.2.10.3 END OF WASH AND EXCESS WATER DRAINAGE

At the end of the shower is possible to remove water excess. The shower trolleys has the tiltable platform so that water can easily run off. Refer to chapter 7.2.4 to activate platform tilt. Once all the water has come down from the drain hose is possible to proceed to replace the plug, close it, and put the tube in the transport position.

7.2.11 BATTERY REPLACING AND CHARGING

Battery charge status can be always monitored trough the battery indicator present on the control box. Each vertical rectangle is a charge level of 25%. So The charge level will go from 100% to 0% by passing 4 step:



When the charge level is 25%, a plug icon is showed to warn the user to charge battery. When charge level is 0%, a STOP text is showed and no more operation is possible.



To remove battery, pull the release handle and slide to left. Use both hands to remove the battery since is quite heavy.



When the orange led turn off, the battery is fully charged. Then remove battery and put it back on the control box. To ensure that the shower trolley is fully operational at all times, we recommend purchasing a spare battery.
The battery charger is designed to automatically adapt to voltage and frequencies between 100-240V~/ 50-60Hz and is provided with an automatic safety charge limiter. Batteries do not require any other maintenance.



8. ACCESSORIES

A wide range of accessories can be applied to Barella Shower Trolleys, contact Wealden Rehab <https://wealdenrehab.com/contact-us>



Use only official Barella accessories.

AC0071 - RECHARGEABLE BATTERY 24V

Spare battery



AC0318 - BATTERY CHARGER

Supplied on request with international cable. Used to recharge the battery by connecting it to the mains



AC0575 - SUPPORT FOR BUTTERFLY PEDAL

Can be applied on both sides of the base. Used to house accessory AC0083



AC0039 - HANDSET

Handset with magnet to be attached to any point of the frame



AC0083 - ADDITIONAL MULTIPURPOSE CONTROL

For use with hand or foot, with magnetic or with support (AC0575)



AC0892 - DRAIN KIT

Drain kit with female and male drain connector, plug and hose length 150cm



AC0574 – BACKREST EXTENSION

The device makes it possible to increase the length of the adjustable backrest. Only applicable for versions with adjustable backrest and partly folding head end



AC0578 – SAFETY DEVICE

Block any inappropriate use when the caregiver is away



AC1126 – SHOWER MATTRESS STRAPS

Set of straps for block the shower mattress to the side rails and to the end rails. The set is made of 2 short straps with clips for long sides and 2 long straps for short sides



AC0838 – IV POLE

The IV pole is provided with a supporting stand made of stainless Steel. This support can be adjusted as to its rotation and height. Pole dimensions: 110 x 23,5 cm. Support dimensions: 28 x 2 cm



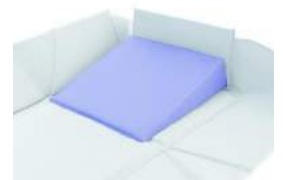
AC1237 – SOFT SEMI CYLINDRICAL CUSHION

Pillow with the same fabric of the soft mattress. Dimensions 55x15x7cm



AC1236 – SOFT WEDGE CUSHION

Pillow with the same fabric of the soft mattress. Dimensions 55x55x14cm with inclination of 15 °



SP0041 – SOFT SHOWER MATTRESS - S SP0035 – SOFT SHOWER MATTRESS - M SP0042 – SOFT SHOWER MATTRESS - L

Soft Shower Mattress inside dimensions:
S: 60x160cm
M: 68x188cm
L: 80x188cm



For accessories compatibility please follow this table

ACCESSORIES	LD31	LD32	LD33
FOR ELECTRIC VERSIONS			
AC0071 RECHARGEABLE BATTERY 24V	•	•	•
AC0318 WALL BATTERY CHARGER	•	•	•
AC0039 HANDSET	•	•	
AC0575 SUPPORT FOR BUTTERFLY PEDAL	•	•	
AC0083 ADDITIONAL FOOT CONTROL	•	•	
AC0578 SAFETY DEVICE	•	•	
FOR PATIENT COMFORT			
AC1236 SOFT WEDGE CUSHION	•	•	•
AC1237 SOFT SEMI CYLINDRICAL CUSHION	•	•	•
AC0574 BACKREST EXTENSION		•*	
OTHER ACCESSORIES			
AC0838 IV POLE	•	•	•
AC0892 DRAIN KIT	•	•	•
AC1126 SHOWER MATTRESS STRAPS	•	•	•
SP0041 SOFT SHOWER MATTRESS - S	•		
SP0035 SOFT SHOWER MATTRESS - M		•	•
SP0042 SOFT SHOWER MATTRESS - L		•	•

*Models LD32xx22

9. MAINTENANCE AND SERVICE LIFE

9.1 ROUTINE MAINTENANCE

Scheduled maintenance is required for proper operation of the device, proper use, patient and operator safety, and performance assurance of the device.

Check the equipment whenever it has undergone "rough treatment" (e.g.: fall, liquid spill, etc.) and whenever any doubts arise concerning its safety.

Ordinary maintenance work may be carried out by specialised operators or authorised technical personnel.

PERIODICITY	CATEGORY	VERIFICATION
6 months	Visual inspection of the device	The integrity of mattress, absence of holes and cuts
		Frame integrity and absence of cracked elements
		Check that nut and bolts are firmly tightened
		Integrity of the four wheels and of the braking system

		Presence of the hand control / foot control and integrity
		General cleaning of the device
		Absence of evident deformations on the frames
		No friction noise or abnormal vibration during adjustments
		Check that the connectors for the controls, control unit and actuators are fully inserted (electrical versions)
		Check the integrity of the electrical cable insulation (electrical versions)
	Functional verification	Checking that the height adjustment is working properly
		Verification of tightening
		Correct pivoting of the wheels
		Correct rolling of the wheels
		Check the stability of the head section frame
		Check the functionality of the braking system
12-24 month	Safety Tests	Executing a full load lifting cycle
		Safety tests IEC/EN62353 (electric models)

9.2 MALFUNCTIONS, EXTRAORDINARY MAINTENANCE AND REPAIRS

Extraordinary maintenance work may only be carried out by personnel authorised by the manufacturer. Otherwise any warranty conditions will be immediately terminated. The manufacturer is not responsible for any damage caused using this product.

Any malfunctions found by the user must be promptly reported to the distributor or directly to the manufacturer and inhibit the use of the device.

Repairs may only be carried out by technical personnel authorised by the manufacturer and may include the withdrawal of the device in order to carry out the necessary repairs.



Modifications to the device are not allowed

9.3 USEFUL LIFE

The service life of the device is defined at the beginning of this manual. (See warning and use restrictions)

At the end of its useful life, you can proceed in the following ways:

- 1) Dispose of the device as described in the paragraph "Disposal".
- 2) Require the manufacturer to recondition and recertify the device so that it can continue to be used

As stated in the paragraph "General warnings", the manufacturer declines all responsibility for the use of the device beyond the useful life established in this manual.



10. CLEANING AND DISINFECTION

It is necessary to clean the device at the end of each use if the device is intended for different users.

10.1 WASHING

After each use, the trolley must be cleaned, disinfected and dried. It is important to store it in a dry and well ventilated room to avoid mold and corrosion spots on metal parts. Be careful not to damage or disconnect the labels attached to the device. Non-aggressive detergents may be detergents with a content of less than 5% of non-ionic surfactants, anionic surfactants and ethyl alcohol. If possible use products with biodegradable surfactants.

10.1.1 FRAME

Clean with a cloth or sponge dipped in non-aggressive detergent and dry. The shower trolley can also be washed with water from 85°C to 95°C for at least 3 minutes. Avoid direct jets of water or other liquids onto mechanical parts and particularly onto electrical parts.

10.1.2 MATTRESS

Wash carefully with lukewarm water and neutral detergents. Dry before disinfecting with approved products. The mattress can be washed with water up to 60°C for at least 3 minutes. Avoid direct jets of water or other liquids onto mechanical parts and particularly onto electrical parts

10.2 DISINFECTION

In general, the mattress is highly resistant to most surface disinfectants currently in use. Autoclaving or sterilization is not allowed.

For disinfection of the product use disinfection with a low chlorine content, such as AMUCHINA® 10% or equivalent solutions with a concentration of 0.1% sodium hypochlorite and the following spectrum of action:

- bactericide in the presence of interfering substances according to EN 1276:1997;
- a fungicide in the presence of interfering substances according to EN 1650:1997;
- bactericidal surface test according to EN 13697:2001;
- fungicide surface test according to EN 13697:2001;
- active on Salmonella Typhimurium according to EN 13697:2001;
- active on: HIV, HAV - HBV, HCV;
- Virucidal according to EN14476:2005;
- active on H1N1 influenza virus according to EN14476:2005.

For safe use, refer to the instruction leaflet included in the product.

10.3 DRYING

Adequate drying is a crucial factor in the care and maintenance of the mattress. Dry naturally at a temperature of up to 60°. Do not press or mangle.

10.4 STORAGE

Store in a dry area, at room temperature. Avoid excessive pressure and contact with materials that quickly discolour. Do not expose the mattress to direct sunlight (UV-radiation).

11. DISPOSAL



The symbol on the label of the equipment indicates that the waste must be subject to "separate collection".

Therefore, the user must either hand over the waste to the separate waste collection centres set up by the local authorities or hand it over to the retailer against the purchase of new equipment of an equivalent type. Separate waste collection and subsequent treatment, recovery and disposal operations promote the production of equipment with recycled materials and limit any negative effects on the environment and health caused by improper waste management. Illegal disposal of the product by the user entails the application of the administrative sanctions referred to in Article 50 et seq. of Legislative Decree no. 22/1997.



12. TECHNICAL SPECIFICATION



Modifications to the device not allowed. The wall battery charger is equipped with certified power supply cable, do not replace it, constitutes the only means of which the charger can be isolated by the power supply through the plug disconnection

GMDN Code and Term

31092 - a manually-operated device designed as a stretcher that is specially designed for the purpose of washing a patient whilst the patient lies upon it. It will typically be used for patients who are incapable of supporting themselves and persons with a disability.

12.1 LABELLING

The following labels are present on the device and on the packaging. All symbols are explained in par. 3.1. On adult shower trolley (LD32xxx), electric models:



On pediatric shower trolley (LD31Cxx), hydraulic models:



On bariatric shower trolley (LD33xxx), electric models:



	LD31	LD32	LD33
Height adjustment system	Hydraulic / Electric with Battery		Electric with Battery
Duty Cycle	Temporary use 10% 2min use/18min pause		
IP protection	X5		
Power source	Batteries (24V / 2.7Ah 79x55x102h mm) Battery Charger 100-240V - 50/60 Hz MAX 400mA		
Electrical safety	Shower trolleys electrical versions: Internal power supply 24V Battery charger: Class II		
Maximum Patient Weight	150 Kg	180 Kg	225 Kg
Safe working load	170 Kg	200 Kg	245 Kg
Maximum patient height	160cm	188cm	188cm
Weight	80 Kg	106 Kg	
Castor diameter	12,5 cm Ø	12,5 – 15 cm Ø	15 cm Ø
Castor braking system	Individually on each castor	Individually on each castor or centralized	Centralized
Steering system	No	Only on centralized	Yes
Reduction space side rails	Yes		
Trendelenburg tilt	12°	12°	12°
Inclination for water draining		5°	12°
Length of drain hose	150 cm		
Reclining Backrest	Yes, some models maximum tilt 63°		No
Use temperature	5-40°C		
Use Humidity	20-80%		
Use atmospheric pressure	800-1060hPa (Maximum altitude 2000m)		
Transport and storage environment	temperature from +5°C to +70°C relative humidity from 25% to 85 % atmospheric pressure from 700hPa to 1060hPa		
Registration Number Italian Ministry of Health	1150561	1150565	1150567
CND (National Classification of Medical Devices - Italy)	V0899 - CLINICAL ACTIVITY EQUIPMENTS – OTHERS		



Packaging with indications of storage and transport:



13. TROUBLESHOOTING

Problem	Cause	Solution
ELECTRIC VERSIONS		
Height adjustment does not work.	Battery not installed	Make sure the battery is fitted and is properly connected to the control box.
	Battery low	Recharge the battery with the appropriate charger.
	Emergency button is activated	Reset by rotating the knob.
	Electric connectors are damaged or not properly inserted	Check connections and wiring.
	Overload stop	Do not exceed max load.
	Overheating stop	Wait until the system has cooled to normal operating temperature. Keep to operating times and intervals (duty cycle)
	Faulty handset	Replace
	Faulty control box	Contact Wealden Rehab
	Faulty lifting actuator	Contact Wealden Rehab
Battery not charging	Battery charger is not powered	Check mains connection/supply voltage present
	Emergency button is activated	Reset by rotating the knob.
	Faulty battery charger	Replace
	Battery completely flat	Replace

	Safety fuse is blown	Contact Wealden Rehab
HYDRAULIC VERSIONS		
Lifting does not work	Faulty hydraulic piston	Replace
The platform does not remain at set height	Faulty hydraulic piston	Replace
PLATFORM TILT ADJUSTMENT		
Platform adjustment does not work	Gas spring fault or calibration error	Contact the Service Centre
ALL VERSIONS		
Stains on the surface	Shower trolley stored in moist environment or not dried properly	Prevent corrosion by treating stains with abrasive polish of the type normally used for car bodies.
The wheels do not rotate	Presence of dirt	Remove dirt
Corrosion spots	Water and/or treatments with too much chloride or sulphide	Contact a professional to examine and evaluate any possible water treatment systems.
		Remove by sanding down to bare metal Clean with a degreasing solvent Apply a zinc phosphate anti-rust primer and wait for 4-24 hours depending on environmental conditions Apply two coats of synthetic enamel paint to finish

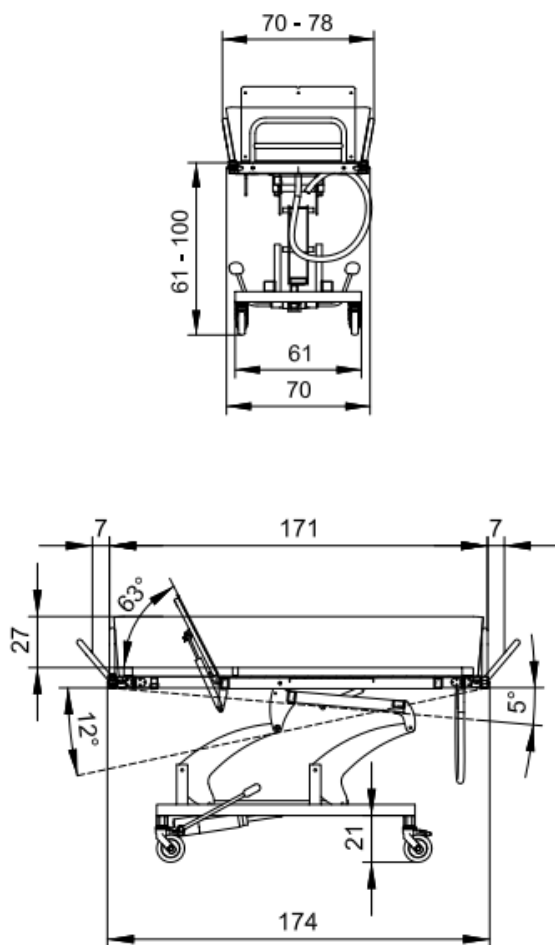
Please Note:

Before contacting our customer service, be sure to have the **SERIAL NUMBER** or alternatively the CODE and ITEM to hand: you can find it on the product label located on the equipment (number that start with symbol SN.), see labelling on par. 12.1, or the delivery note / invoice number. This identification number helps reduce waiting times and improves service quality.

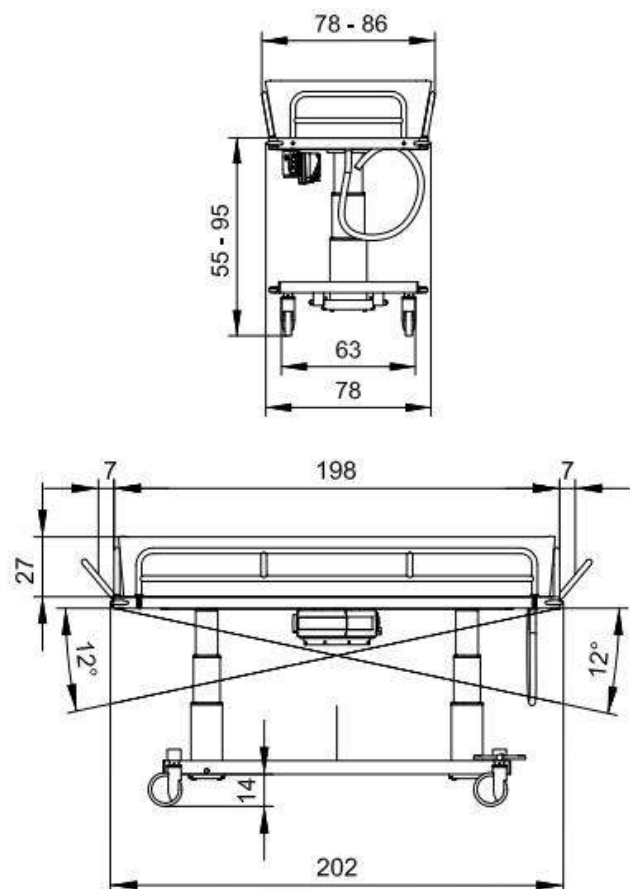


14.MAIN DIMENSIONS

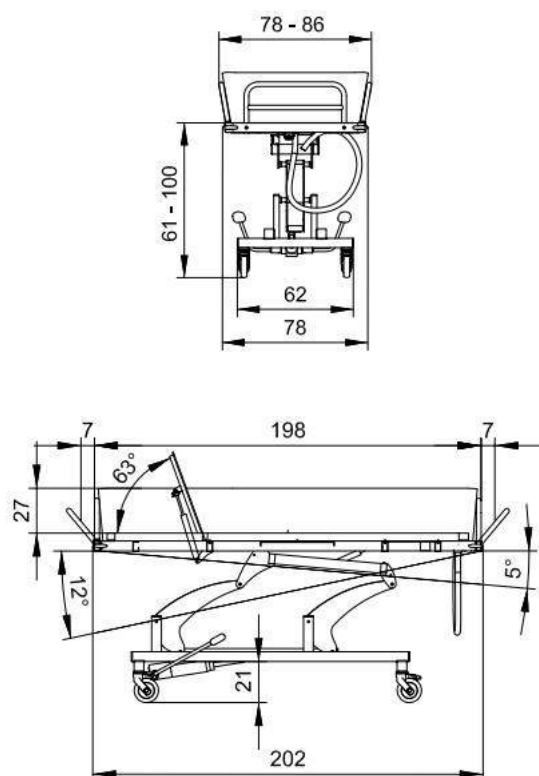
14.1 LD31xx



14.3 LD33xx



14.2 LD32xx



direction. With the inserted directional block, it is easier to proceed in a straight line. To disengage the brake or directional lock is necessary to put back the lever in horizontal position.

7.2.8.2 INDIVIDUAL BRAKES

On the models with individual brakes, each wheel has its own brake, except for one wheel that has the directional lock. To insert the brake, push downwards with the foot the red lever down on the outermost part. The same operation is valid for directional lock: push downward the green lever.



To disengage the brake push the red lever downwards on the innermost part. The same for the green lever to disengage the directional lock.



7.2.8.3 TRANSPORT

Move the trolley by holding the foot end rail or the head end rail after releasing all the brakes.

To go through 80 cm-wide doorways, pull the side rails inwards while passing through the door: they will go back to their original position when released.



Do not push the trolley sideways when the directional lock is on.
During patient transport the side rails must be closed and the patient must lie down. The platform must be as planar as possible.
Transport can be done only manually, DON'T use motor vehicles

7.2.9 TRANSFER THE PATIENT

To transfer the patient from bed to the trolley and vice versa, is possible to use a suitable harness or is possible to use the rolling technique. In the latter case, open one side rail of the bed and open one side rail of the shower trolley in order to get the head side of the trolley aligned with the

head side of the bed. Get as close as possible to that side of the bed with the open side of the shower trolley.



Adjust the trolley height so that the height of the platform is at the same level of the bed mattress. Help the patient to lay on the opposite side of the bed. Activate the brakes.



Help patient to roll onto the stretcher mattress.



Complete the transfer and unlock the wheels to step away from the bedside so you can close the side rail. Special transfer sheets that reduce friction between surfaces can be used to improve transfer comfort.

7.2.10 WASHING


When the washing location is reached, the park brake should be engaged as soon as possible.

7.2.10.1 PREPARE THE DRAINAGE

The hose attached to the mattress will drain the water during the patient washing, so before proceeding, make sure the hose is not obstructed. Place the hose end in the floor drain or toilet and open or remove completely the plug.



Remove completely or open the plug to avoid water accumulation and avoid the creation of an hazardous situation for the patient.

IEC/EN 61000-4-3 (battery charger)	Modul. AM 80% 1kHz 80 MHz – 2.7 GHz	Modul. AM 80% 1kHz 80 MHz – 2.7 GHz	<p>separation distance calculated from the equation applicable to the transmitter frequency.</p> <p>Recommended Separation Distance $d = 1.16 \sqrt{P}$ $d = 1.16 \sqrt{P}$ 80 MHz – 800 MHz $d = 2.33 \sqrt{P}$ 800 MHz – 2.7 GHz</p> <p>Where P is the estimate of the maximum output power of the transmitter in Watts (W) according to the manufacturer of the transmitter and d is the recommended separation distance in meters (m). The field of energy from fixed RF transmitters, as determined by an electromagnetic field study^a, must be below the conformance level in each frequency range^b. Interference may occur near the devices marked with the following symbol:</p> 
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NOTE 1 At 80 MHz and 800 MHz, the separation distance is applied for the highest frequency range.
NOTE 2 These guidelines cannot be applied in all situations. Electromagnetic propagation is subject to absorption and reflection by structures, objects and people.

- a) The field of energy from fixed transmitters, as base stations for mobile phones (cellular / cordless) and mobile cellular radio systems, amateur radio, AM and FM radio broadcasts and television cannot be predicted theoretically with precision. To estimate the electromagnetic environment due to fixed RF transmitters, it should be considered an electromagnetic field survey. If the energy field measured in the space where the shower trolleys is used exceeds the applicable RF compliance level, shower trolleys must be tested to check its normal operation. If an abnormal activity is found, additional measures may be required, such as reorientation or repositioning of the shower trolleys.
- b) Beyond the 150 KHz-80 MHz frequency range, the power range must be less than 3 V / m.

recommended below, depending on the maximum output power of the communication equipment.

Recommended separation distances between portable and mobile RF communications equipment and LD3x shower trolleys

The LD3x shower trolleys are designed for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or user of shower stretchers can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF transmitters and LD3x shower trolleys as recommended below, depending on the maximum output power of the communication equipment

Estimation of the maximum output power of the transmitter (W)	Separation distance according to the transmitter frequency (m)		
	150 kHz – 80 MHz $d = 1.16 \sqrt{P}$	80 MHz – 800 MHz $d = 1.16 \sqrt{P}$	800 MHz – 2.7 GHz $d = 2.33 \sqrt{P}$
0.01	0.116	0.116	0.233
0.1	0.368	0.366	0.737
1	1.166	1.166	2.333
10	3.689	3.689	7.378
100	11.666	11.666	23.333

For transmitters considered at maximum output power not indicated above, the recommended separation distance in meters (m) can be calculated using the equation applicable to the transmitter frequency, where P is the estimate of the maximum transmitter output power in Watts (W) according to the transmitter manufacturer.

- NOTE 1 At 80 MHz and 800 MHz, the separation distance is applied for the highest frequency range.
NOTE 2 These guidelines cannot be applied in all situations. Electromagnetic propagation is subject to absorption and reflection by structures, objects and people.

15.3 RECOMMENDED SEPARATION DISTANCES

The LD3x shower trolleys are designed for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or user of shower stretchers can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF transmitters and LD3x shower trolleys as

16. WARRANTY

16.1 GENERAL CONDITIONS

All Barella shower trolleys are warranted against defects in materials or workmanship for a period of 24 months from the date of sale of the product, except for any exclusions, limitations or conditions defined at the time of delivery of the product.

The warranty is not valid in case of improper use, tampering with the device, abuse or modification of the product or for any use or operation not explicitly mentioned in this manual.

The warranty is not valid if the device has not been correctly maintained and documented in accordance with this manual, or if the instructions regarding storage, cleaning and sanitation are not followed.

The manufacturer is not responsible for any damage or injury or any situation caused by incorrect installation or configuration of the device or using equipment that does not comply with the instructions in the installation, assembly and operating manuals.

The manufacturer does not guarantee its products against defects or damages in the presence of extraordinary conditions such as: natural disasters, unauthorised maintenance and repairs, improper power supply (where applicable), use of parts or components or accessories not original, shipping damage not directly managed by the manufacturer, lack of maintenance, obvious negligence on the part of the user or operator.

The warranty does not cover consumables, rechargeable batteries, and in general, all material subject to wear, failures caused by impacts, falls, misuse or improper, accidental events, damage caused by transport. If the equipment is tampered with, the warranty expires automatically.

16.2 REPAIRS UNDER WARRANTY

In the case of a report of defects in materials or workmanship, the manufacturer assesses whether the defect is covered by warranty.

Warranty repairs must be expressly requested and are to be understood in our laboratory, subject to authorisation and with the issue of the return number.

For products sent in their original packaging, the return shipment will be made freight free.

For warranty repairs, a fiscal document is required where the date of purchase is within the warranty period (sales note, purchase invoice, fiscal receipt).

Labour costs for warranty repair (when the warranty conditions are valid) are borne by the manufacturer.

Repairing or replacing a product does not renew or extend the terms and expiration dates of the warranty.

16.3 OUT-OF-WARRANTY REPAIRS

Non-warranty products can be repaired by the manufacturer by returning them after having been authorised by the technical assistance service. The costs of repair, including shipping, materials and labour, are to be understood as being borne by the customer or the retailer. The parts and components being repaired are considered to be covered by warranty for 24 months from the date of receipt of the repaired device.

16.4 NON-DEFECTIVE PRODUCTS

In the event that the manufacturer does not find any malfunction or defect in the returned products, it is concluded that the product is not to be considered as defective. Shipping and device management costs will be charged to the customer or distributor.

16.5 HOME REPAIRS

In case of repair at the customer's premises, a written request must be made indicating the complete details of the applicant, the type of machine and the fault.

The kilometric cost for the technician's transfer is to be agreed in relation to the customer's urgency.

In the event that the machine in question is under warranty, only the costs of the transfer will be charged.

The time is counted from the departure of the technician from our laboratory until his return, the time of return will be estimated on the basis of the time spent on the outward journey.

16.6 SPARE PARTS

Use only original spare parts. A list of common spare parts is available at Chapter 8. For the complete spare parts list contact the manufacturer. The consumable parts (mattress, draining kit, cushions) can be installed directly by the operators or by the technical assistance service that performs ordinary maintenance. Spare parts that require technical intervention on the electrical or structural parts of the stretcher must necessarily be replaced by the Wealden technical service as specified in the paragraph 9.2.

Spare parts are sold following a formal request for an offer to the technical assistance service. Processing times are related to the availability of the parts. Returns for spare parts are not accepted.

The payment will be cash on delivery unless otherwise agreed.



17.MAINTENANCE AND SERVICE RECORD SHEET

DEVICE	DATE OF INSTALLATION	SERIAL NUMBER
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DATE	SERVICE OPERATIONS	TECHNICIAN	SIGNATURE	NEXT CHECK



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