felgains

MultiFLOW®

By felgains

MultiFlow Ultra-Low Electric Height-Adjustable Stretcher

Instructions for use & maintenance

CE

TABLE OF REVISIONS		
Review	**Data**	**Note**
1	08/01/2025	Edition

SUMMARY

felgains

EU Declaration of Conformity

The manufacturer:

Company: Pam Mobility s.r.l.

Address: Via Verdi, 39 - 42043 Gattatico (RE) - Italy

SRN: IT-MF-000027951

Declares, under its own and exclusive responsibility, that the device(s)

Code	Model	ID BD/RDM	BASIC UDI-DI
7285RT70	Electric height-adjustable stretcher, 2 sections, 1 joint	2417683/R	8055774207285RT70YJ
7285RT71	Electric height-adjustable stretcher, 4 sections, 3 joints	2417686/R	8055774207285RT71YL
7285RL71	"Lowest" Electric height-adjustable stretcher	2489694/R	8055774207285RL71XC
7285RT91	Electric height-adjustable stretcher, 4 sections, 3 joints	2417688/R	8055774207285RT91YS
7285RT84	Electric height-adjustable stretcher with x-ray plane	2723703/R	8055774207285RT84YV

Intended use: The device is intended to be used exclusively as a stretcher for the transportation, diagnosis, treatment and monitoring of patients under the close supervision and surveillance of medical personnel.
The device cannot be used for inpatient purposes
Environment of use: within healthcare and health facilities.
The device cannot be used in a potentially explosive or flammable atmosphere.
Personnel intended for use of the product: specialist operators and doctors.

Risk class: Class I (in accordance with Rule 13, Annex VIII of Regulation (EU) 2017/745) It

complies with the following European Union legislative acts:

(EU) 2017/745 Regulation (EU) 2017/745 of the European Parliament and of the Council of 5 April 2017 on medical devices, amending Directive 2001/83/EC, Regulation (EC) no. 178/2002 and Regulation (EC) no 1223/2009 and repealing Council Directives 90/385/EEC and 93/42/EEC

2006/42/EC Directive 2006/42/EC of the european Parliament and of the Council, of 17 May 2006 on machinery, and amending Directive 95/16/EC

2014/35/EU Directive 2014/35/EU of the european Parliament and of the Council, of 26 February 2014 on the harmonisation of the laws of the Member States relating to the making available on the market of electrical equipment designed for use within certain voltage limits

2014/30/EU Directive 2014/30/EU of the european Parliament and of the Council, of 17 May 2006 on the harmonisation of the laws of the Member States relating to electromagnetic compatibility

2011/65/EU Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment with modification by the delegated Directive (EU) 2015/863 of 31 March 2015

Complies with the following technical/harmonised standards and/or common specifications:

CEI EN 60601-1:2007 + EC:2010 + A11:2012 + A1:2014 + A12:2015 + A2:2022 - Apparecchi elettromedicali Parte 1: Prescrizioni generali relative alla sicurezza fondamentale e alle prestazioni essenziali

The device is subject to the conformity assessment procedure provided for in article 52, section 7 of Regulation (EU) 2017/745

Gattatico,
January 09, 2025

Managing Director
Andrea Muzzini

PAM MOBILITY SRL
Via Verdi, 39
42043 GATTATICO (RE)
P.IVA 02429390350 - Tel. 0522 473859
e-mail: info@pammobility.com

1. GENERAL PROVISIONS

1.1 Presentation of the manual

This manual is intended to provide the user with all the necessary information so that, in addition to a proper use of the device, it is able to manage the same in the most autonomous and safe way possible.
It includes information on technical aspects, operation, device shutdown, maintenance, spare parts and safety.
Read the warnings and instructions in this manual carefully as they provide important information regarding SAFE USE AND MAINTENANCE.

Before any operation on the device, operators and qualified technicians should read carefully the instructions contained in this publication.
If you have any doubts about the correct interpretation of the instructions, contact our office to obtain the necessary clarifications.

The descriptions and illustrations given in this publication are without commitment. Pam Mobility reserves the right to make such modifications as it deems appropriate for the purpose of improvement, without undertaking to update this documentation.

The illustrations and images in this manual are intended only as examples and may differ from practical situations.

The content of this manual is in accordance with Regulation (EU) 2017/745 of the European Parliament and of the Council, of 5 April 2017, on medical devices, amending Directive 2001/83/EC, Regulation (EC) No. 178/2002 and Regulation (EC) n. 1223/2009 and repealing Council Directives 90/385/EEC and 93/42/EEC.

No person shall disclose, modify or use this manual for their own purposes.

The safety of the operator and patient and the smooth operation depend on the observance and exact observance of the instructions described here.

1.2 Customer service

Customer Service and product support are important aspects of the company structure of Pam Mobility SRL.
The Customer Service is available for further information on the use, maintenance and support of this product.

1.3 Conventions

The following graphic symbols have been adopted in this manual:

Be careful! It is placed before certain procedures. Failure to do so may result in damage to the article.

WARNING! It is placed before certain procedures. Failure to comply with this may cause damage to the operator or patient and the article.

2. GENERAL REQUIREMENTS

2.1 Manufacturer

The article described in this manual is produced by:

Pam Mobility s.r.l.
Via Verdi 39 – 42043 Gattatico (RE) - Italy Tel 0522 473859 - Fax 0522 1548244
E-mail: info@pammobility.com
http:www.pammobility.com

2.2 Intended use

Type of device: electric stretcher.

- The device is intended for use in diagnosis, treatment and monitoring of an adult patient* under close supervision by medical staff.
- Environment: hospitals and medical clinics in application areas 2 or 3. The installation room must be equipped with electrical equipment in accordance with current standards.
- Personnel used to use the product: specialised operators and medical staff.
- Supervision and responsibility: the stretcher must be used under the supervision of a doctor.
- Warning: the stretcher may not be used in potentially explosive or flammable atmosphere.
- Limits of use the stretcher can be used only as described in this manual.
- An adult means a person of 40 kg or more, height of 146 cm or more and body mass index (BMI) of 17 or more.

2.3 Essential performance of the stretcher

- The essential services of the medical stretcher are:
- trendelenburg position: the trendelenburg position is reached in all conditions by a push button within 30 s;
- horizontal grid plane: the grid plane can be brought into a horizontal position in any condition by means of a push-button within 30 s;
- horizontal backrest: it is possible to bring the back section in horizontal position in all conditions thanks to the mechanical lever CPR in a time less than 30 s.

2.4 Environmental limits for use

WARNING! The stretcher may not be used in potentially explosive or flammable atmosphere.

The working environment of the stretcher must follow the following indications:

- Temperature: 0°C +40°C
- Humidity: 10% 70% (not condensed).

The device must be placed in a completely dry environment.
Environmental conditions other than those indicated may cause serious damage to the stretcher. The placement of the stretcher in environments not corresponding to what is indicated, causes the warranty to lapse.

2.5 Expected life

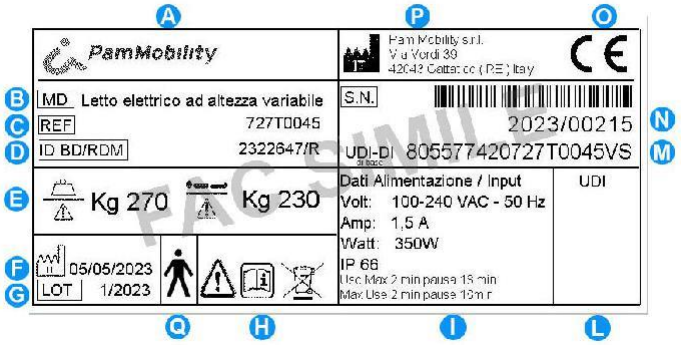
The stretcher has been designed and constructed to operate without risk to people and things under normal conditions of use as defined in this manual for 10 years. This duration can only be reached by complying with the requirements of this manual and contacting the assistance of Pam Mobility s.r.l. whenever a failure occurs on the stretcher. After 10 years of use, it is recommended to replace the interobarella.

2.6 Identification

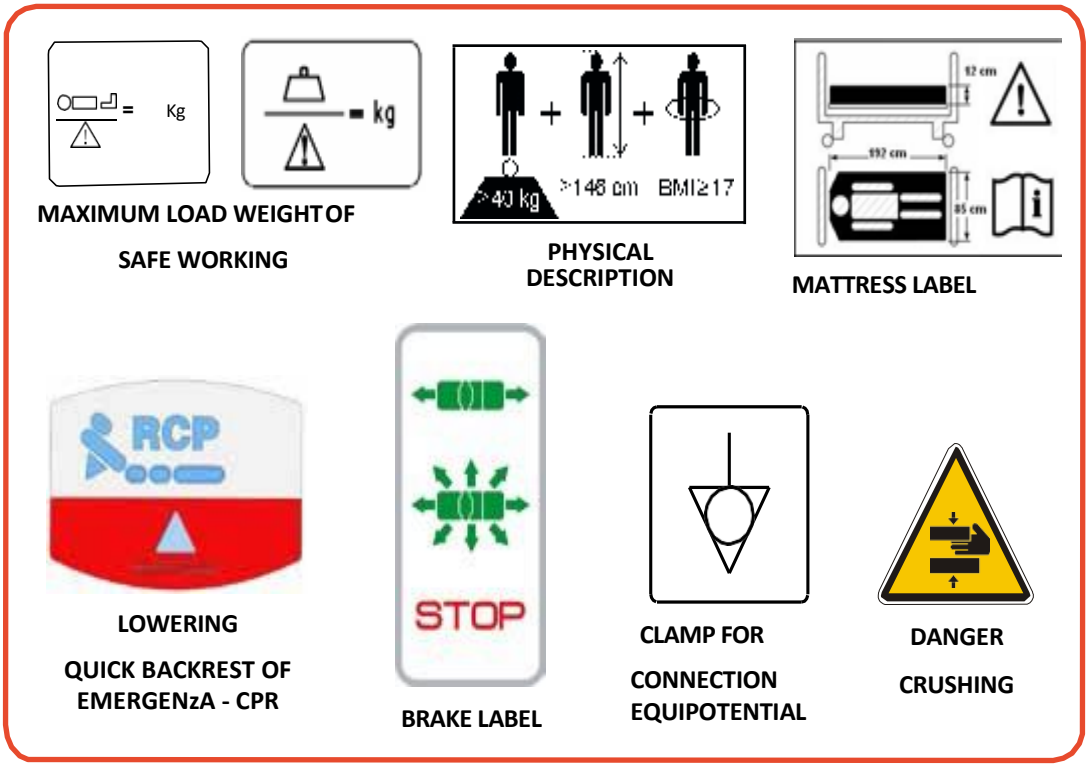
Be careful! You may not remove the label from the device for any reason.

The article is identifiable by a plate on the base bearing the following data:

A. Company logo;
B. Description of the device;
C. Article code;
D. Registration number of the device at the Ministry
E. Safe working load;
F. Date of production;
G. Data on manufacture
H. Caution: Read the installation and use instuctions.
I. Electrical data;
L. UDI carrier (not present)
M. Basic UDI-DI number;
N. Serial number
O. CE mark
P. Name and address of manufacturer
Q. Type B applied part



2.7 Identification of controls



3. SAFETY

3.1 Safety rules

3.1.1 Definitions

In this manual, the following terms shall be used in relation to safety:

Operator:the person responsible for installing, operating, regularly performing maintenance, cleaning, repairing, and transporting the device.

TecnicoPam mobility: qualified technician made available by Pam Mobility s.r.l. or its agent to carry out complex operations, installation and implementation.

Safety components: specially designed by the manufacturer and marketed separately from the device to perform safety functions; It can therefore be defined as a safety component when the failure of the component itself affects the safety of exposed persons.

3.2 General provisions

WARNING! Improper use and maintenance can cause damage to people and things.

WARNING! BLOOD DISEASE WARNING: To reduce the risk of exposure during use of the stretcher, follow the maintenance instructions in this manual, In addition to the requirements for the safety of personnel prepared by the Emergency Medical Service Manager.

Operators should read this manual carefully, follow the instructions contained therein and familiarize themselves with the correct procedures for using and maintaining the stretcher. Use and maintain the article only as prescribed in this manual and use exclusively spare parts and service Pam Mobility s.r.l. Do not use the stretcher for any purpose other than that for which it was manufactured and designed.
Always advise the patient before making any adjustments to the stretcher. Always lock the stretcher with the brakes when you stop. Never leave the stretcher unattended when the patient is on it.
Keep this manual for reference and to support personnel training.
Transfer it with the product in case of sale or transition to new users.

WARNING! Report any major accident that has occurred in relation to the device to the manufacturer and the competent authority of the Member State where the user and/or patient is established.

4.0 GENERAL DESCRIPTION

4.1 Description of the stretcher

Height adjustable stretcher with Trendelenburg 3 joints 4 sections, electrically adjustable, HPL top, plastic laminate
The stretcher is designed for use in specialist or semi-intensive care units. For the purposes of the Directive, a stretcher is to be understood as an active non-therapeutic device (class I).

Names of the principal parties

1. Push button box;
2. I.V.pole;
3. Handles head side;
4. Control panel;
5. 5th wheel;
6. Side Rails;
7. Handle Poles;
8. Mattress;
9. Back section;
10. Basin section;
11. Upper leg section;
12. Lower leg section;
13. Brake;
14. Wheel;
15. Handle for release side rails;
16. Lever quick release section back;
17. Bumpers;
18. Equipotential earth node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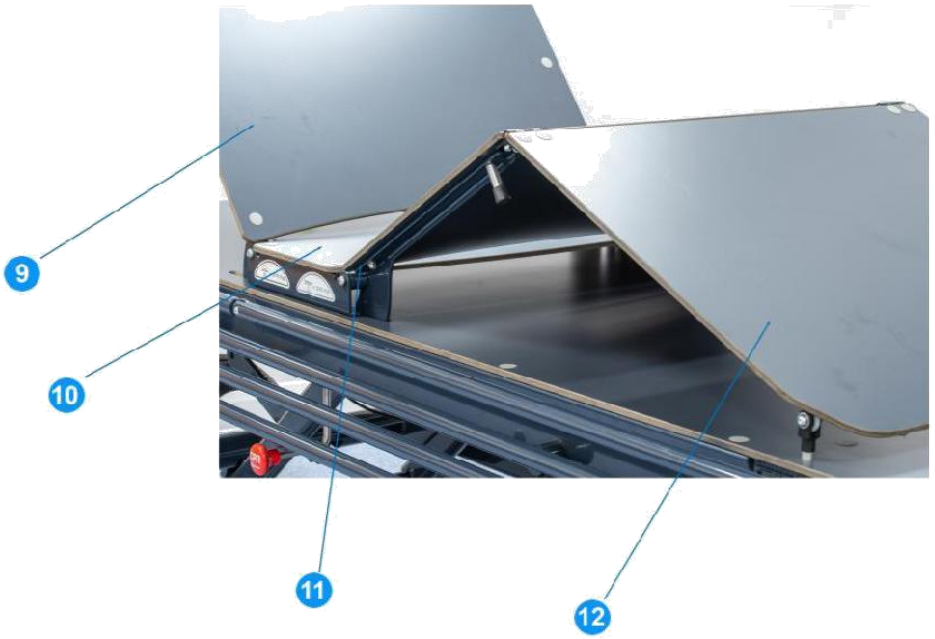
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1. **Free hand control**
Push-button for patient use and/or operator with sustained action with the possibility of disables controls.

2. **The Tube Holder;**
Height adjustable, collapsible tube.

3. **Pull-down push handle on patient head Side** Pull-down push handle.

4. **Control panel**
Operator control panel with the possibility of inhibiting the controls for each individual movement of the stretcher. All functions can be activated by the buttons of consent to the movement with action maintained. There are also emergency hotkeys and comfort positions.

5. **Fifth wheel**
Fifth single directional wheel

6. **The compass side rails**
Pair of side rails with compass movement.

7. **Patient side rods handle**

Pair of Removable rods handle

8. **Mattress**
Mattress in polyurethane foam with cover water proof.

9. **Back section**
Part of the support surface supporting the patient’s head and back.

10. **Section of the basin**
Central part of the support surface supporting the pelvis. It’s not moving.

11. **Upper leg section**
Part of the net which allows the lifting of the upper leg section.

12. **Lower leg section**
Part of the network that allows the lifting of the lower section of the legs by electric actuator or 6-position "Rastomat" trigger.

13. **Brake**
Pedal that allows to lock or unlock the wheels and set their directional lock.

14. **Wheels**
Connected to the base, they allow the movement of the stretcher.

15. **Handle for release**
If there are the semisubsists in technopolymer, it allows the lowering and raising of the same.

16. **Lever quick release section back (CPR)**
Lever that allows the quick release of the back section in case of emergency.

17. **Bumper (optional)**
Plastic wheels which absorb any shocks during the movement of the stretcher.

18. **Equipotential ground node.**
Equipotential node for connecting the stretcher to the ground.

4.1.1 Dimensional data

ELECTRIC VARIABLE HEIGHT STRETCHER		727T5RL71	7285RT84
Sections	-	4	4
Surface dimensions	mm	2000 x 700	2000 x 700
Height	mm	349÷ 750	428÷835
Overall dimensions	mm	2215X826	2215X826
Backrest section	mm	720	720
Fixed section	mm	300	300
Upper leg section (pelvis)	mm	412	412
Lower leg section (footboard)	mm	568	568
Adjusting the backrest	deg	0÷83	0÷80
X-Ray Windows	mm	610x610	1980x610
Upper leg section adjustment(pelvis)	deg	0÷32	0÷32
Adjustmentlower leg section	deg	0÷25	0÷25
Trendelenburg adjustment	deg	0÷-15	0÷-15°
Countertrendelenburg adjustment	deg	0÷15	0÷15°
Space between siderail bars (lowered):	mm	92 (27)	92 (27)
Safe working load	kg	260	260
Patient weight	kg	220	220
Standard wheel diameter	mm	150	150
Suggested mattress size	mm	1975 x 680 x 100 h	1975 x 680 x 100 h
Weight	kg	110	120

4.1.2 Electrical data

BARELLA ALTEZZA VARIABILE ELETTRICA		727T5RL71	7275RT84
Supply voltage	V	100-240V-50Hz	100-240V-50Hz
Network Frequency	Hz	50	50
Operating voltage	Vcc	24	24
Max current absorbed	A	1.5	1.5
Sound power level emitted under load	dB	<60	<60
Electrical protection class	-	I	I
Applied parts	-	Tipo B	Tipo B
Electrical protection rating	-	IP66	IP66
Intermittent operation	min/ora	2' work - 18' Pause	2' work 18' Pause
Battery capacity	Ah	1,2	1,2
Battery charging time	h	10-12	10-12
Reference standards		CEIUNI EN 60601-2-52	CEIUNI EN 60601-2-52

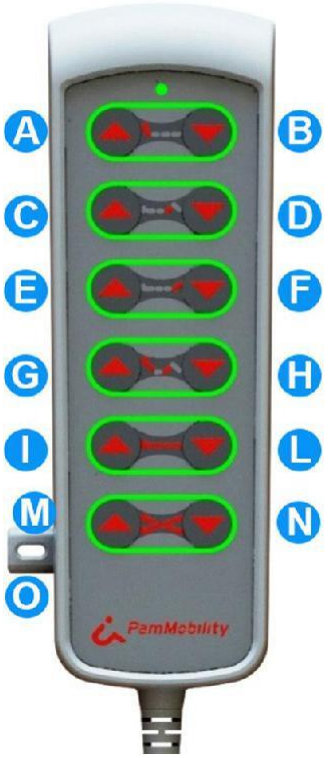
5.1 Free hand control

The stretcher supports a free 12-key and 6-function push button.

Be careful! Before any movement, consult the section on the maneuvers to be carried out.

The movements carried out by means of a push-button are as follows:

- Raise the seat back;**A**
- Lower the backrest**;B**
- Raise the upper section of the **legs;**
- Lower the upper leg section;**D**
- Raise the lower leg;**E**
- Lower the lower leg;**F**
- Raise simultaneous back section and upper leg section **G**
- Simultaneously lower the back section and the upper section of the legs **H**
- Raise the stretcher; **I**
- Lower the stretcher;**L**
- Controtrendelenburg;M
- Trendelenburg; N
- Led power on lighting;
- Key that allows the lock and unlock of the trendelenburg. **Or**



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5.3 Control inhibitor

The electric stretchers can support a Control Box inhibition console, which allows operators to inhibit the free push-button functions.

Inhibition of commands

The console controls should be as follows:
Press the Tastoe **Awith the** lock symbol closed and holding it the A key press also the button of the movement that you want to exclude for example:
to exclude the movement of the back you will have to press the A+ button **the green led Dil** button on the board button turns off

Inhibition of commands

To block console controls proceed as follows
Press the **Ain button** with **the lock symbol closed and holding down the Advance button** also the movement button you want to unlock for example:
to exclude the movement of the back you will have to press the A+ button **the green led Dil** button on the key board is on

5.4 Bilateral pedal

The electric stretchers can support a bilateral pedal, which allows operators to raise and lower the stretcher.

Be careful! Before any movement, consult the section on the manoeuvre to be carried out.

The movements that can be carried out by means of a bilateral pedal are as follows:

- Raise the stretcher;
- Lower the stretcher.

5.5 Control Panel

The beds may be equipped with a control system which allows the operator to control, activate and inhibit the functions of the free hand switch.
There are also emergency hotkeys for CPR, comfort position, Trendelenburg. and patient descent position

*Be careful! Make sure that the **PSIA key** is inserted. Before any movement, consult the section on the manoeuvre to be carried out.*

Description:
- Lock inhibition/ unlocking movements **A**
- Movement control B
- Movement control C
- Handling of the upper section of the D-back
- Movement of the upper leg section;**And**
- Movement of the lower leg section (if present) **F**
- Handling of the G-stretcher for lifting/lowering
- Trendelenburg/ controtrendelenburg handling; H
- Simultaneous movement of the backrest and upper leg section;**I**
- Button for comfort position (armchair);**L**
- Total reset CPR button;**N**
- Button for the position of Trendelenburg emergency M
- Control console inhibition magnetic key. **P**
- Indicator led battery status/ presence network 230V **O**

6.0 INSTALLATION

The handling activities described in this chapter shall be carried out only by qualified personnel who are specially trained to carry out loading operations in complete safety; Unloading and handling of packages by means of lifting equipment such as cranes or forklifts. Local staff should be familiar with accident prevention rules.

Be careful! Ensure that the vehicles and logistics facilities used are in accordance with the permitted use and in perfect condition; Keep a distance from suspended loads, make sure that the lifting ropes and belts are in perfect condition and properly inserted into the appropriate hooks.

6.1 Transport and delivery

Transport may be carried out by the following means of communication: road, rail,sea, air.
The weight of the article is deductible from the technical characteristics and packaging. The handling of the individual article shall be carried out using means suitable for such as self-propelled forklift or hand lift. The safety precautions remain valid.
The device is delivered assembled wrapped in a bumper film.

Be careful! Upon receipt of the device, check with the carrier that the material is intact, has not been damaged during transport or was not opened voluntarily to remove parts from the inside. Check that the delivery corresponds to the specifications of the order and verify with the shipping documents that the delivery is complete.

If the packages are damaged externally, open them in the presence of the carrier and check that the stretcher has not been damaged.
Note any damage on the shipping documents and inform immediately the company Pam Mobility s.r.l..
If the packaging does not have any anomalies, check the stretcher outside within 24 hours of delivery.
In case of visible damage due to transport, inform the carrier and the insurer immediately, as well as the company Pam Mobility s.r.l..

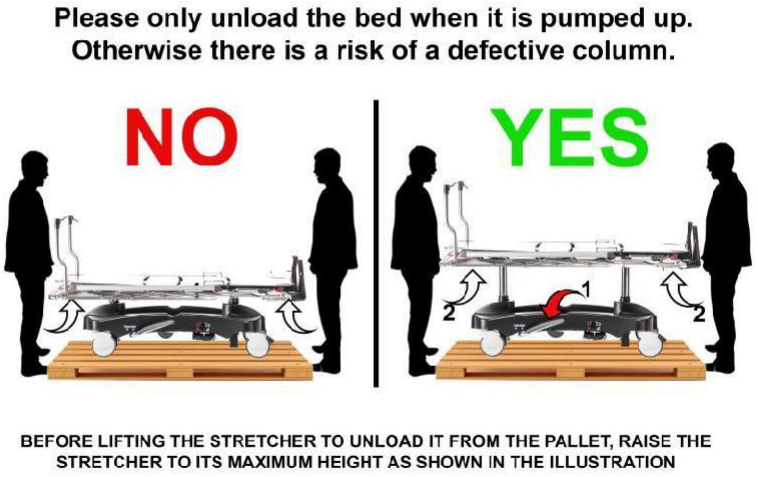
6.2 Lifting

WARNING! Lifting and handling operations must be carried out by personnel trained in this type of operation.

Be careful! When lifting, slowly strain the bands and check that no components are affected which are not predisposed to support the weight of the group

In order to ensure the safe handling of the stretcher, strictly follow the following instructions:
Ensure that the lifting equipment is appropriate to the weight of the stretcher. Use only flat lifting bands.
Place the lifting bands near the bogie frame and not the net frame. If you are using a forklift, place the stretcher on a suitable platform by locking the four wheels.
Lift the stretcher as little as possible.

Be careful! During the manoeuvre, check that no part of the stretcher is pressed against the lifting medium.



BEFORE LIFTING THE STRETCHER TO UNLOAD IT FROM THE PALLET, RAISE THE STRETCHER TO ITS MAXIMUM HEIGHT AS SHOWN IN THE ILLUSTRATION

6.3 Storage

If long-term storage is required, leave the stretcher in a dry place away from rain and wind.

Protect particularly well the electrical parts and all the parts very sensitive to humidity and low temperatures.

The storage of the stretcher can be done in dry rooms with a temperature between -10° C and +50° C; and relative humidity 20% 90% without condensation.

6.4 Installation

Installation is carried out under the direction and responsibility of a qualified technician from Pam Mobility s.r.l.

ATTENTION: it is absolutely forbidden to assemble and install the stretcher without the support of a qualified technician from Pam Mobility s.r.l. It is also absolutely forbidden to disassemble the stretcher for a subsequent reinstallation without the support of a qualified technician from Pam Mobility s.r.l.

- Check that there is a power outlet near the installation area.
- Check that the installation surface is sufficient considering the additional space required for mounting.
- Make sure that the space left next to the stretcher is sufficient for a person to pass.
- Make sure that the specific load of the floor is sufficient to support the weight of the stretcher.

6.4.1 Preparation of the installation area

The installation site must: have a flat, horizontal, rigid floor.

6.5 Verification of the ordered

The package contains:

- Electric stretcher (ordered version);
- Additional accessories ordered;
- the user manual.

6.6 Assembly

Be careful! The assembly area must be cleaned and cleared; shall be at least 4x3 m to allow assembly operations.

The assembly site shall have the following characteristics:
flat, non-yielding floor;
lighting 400 lux;
have an electrical power distribution socket suitable for the characteristics of the article (see identification plate) made in accordance with CEI standards.

6.7 Electrical connection

WARNING! Electric beds may not be used in potentially explosive or flammable atmospheres (hyperbaric chamber type).

Be careful! Danger of Electrocution. Cables shall be positioned so that they are not crushed, trapped, stretched, stepped on, bent, wet or obstructed from moving parts.

WARNING! The power cord shall not be attached to the operator.

WARNING! Check that the mains voltage and frequency correspond to the one for which the article has been designed (see identification plate).

- Provide a SCHUKO-type socket;
- Connect the plug to the mains;
- Wait 6/8 hours for the battery to recharge.

6.8 Functional test

Be careful! The following check should be repeated periodically to verify the product's performance.

Before using the article:

- Carry out the "periodic inspection" provided for in the maintenance chapter;
- if the check is positive the item is ready to be put into regular service, otherwise contact Pam Mobility Customer Service immediately.

7.0 OPERATION AND USE

7.1 Warnings

Electric stretchers may not be used in potentially explosive or flammable atmospheres (hyperbaric chamber type).

Before moving the stretcher, make sure that the power cord is disconnected and hooked to the stretcher.

Sanitize the stretcher as described in SANITIZATION.

It is the responsibility of the care staff to authorize the patient to use the stretcher functions.

The electrical part is designed for continuous use of 2 minutes with an interval of 18 minutes between uses as shown on the identification plate placed on the control unit. Using the stretcher without respecting these restrictions does not pose any danger to the patient or operator but may damage the device.

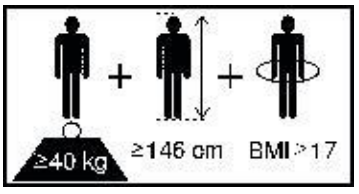
Warn the patient whenever adjustments are made to the stretcher.

Always lift the safety rails of the stretcher when a patient is on it. Always lock the stretcher by applying the brakes.

When the PATIENT's condition (such as disorientation due to medication or special clinical conditions) may lead to a PATIENT ENTRAPMENT with SHOULDERS/SHOULDER, the MATTRESS SUPPORT PLATFORM must be left in a secure position with horizontal net plane and lowered when the patient is left alone (except when otherwise required by medical personnel for special or special circumstances).

Do not use the stretcher for purposes other than those for which it was intended and designed.

Beds should only be used with patients who meet the following parameters: weight greater than or equal to 40 kg, height greater than or equal to 146 cm and body mass index greater than or equal to 17 (see label below).



7.2 Safe position

The stretcher is in a secure position when the net deck is in a horizontal position at its lowest position with the sides raised, the push-button controls disabled, the stretcher (if available) closed and the brake engaged.

7.3 Emergency positions

The stretcher can reach two emergency positions, depending on the type of emergency in which the patient is:

1. The stretcher is in emergency position when the net plane is horizontal at its lowest position (total reset), with the sides lowered.
2. The stretcher is in emergency position when all sections of the stretcher are reset and the net plane moves to trendelenburg position with the sides lowered.

To bring the stretcher into the EMERGENCY STATION 1proceed as follows:

FROM A FREE-RANGE HAND SET CONTROL

- Press the key on the keypad to clear the stretcher sections;
- press the key on the keypad to lower the stretcher;
- Lower the sides (see reference paragraph).

BY CONTROL PANEL

- press the button of the control panel **N (**cpr) until reaching the desired position: the command resets the network plane and brings you to minimum height;
- Lower the sides (see reference paragraph).

To bring the stretcher into the EMERGENCY STATION 2proceed as follows:

FROM A FREE-RANGE HAND SET CONTROL

Press the control button to reset the
Sections of the stretcher;
Press the button on the control panel to bring in the stretcher
In the trendelenburg position;
Lower the sides (see reference paragraph).

BY CONTROL PANEL

press the button of the **Muntil complete reaching the position: the command resets the network plane and takes you to the trendelenburg position. Lower the sides (see reference paragraph).**

7.4 Moving the stretcher

WARNING! Before moving the stretcher, warn the patient.

WARNING! Make sure that the power cord is disconnected from the mains socket and properly secured so as not to hinder movement before moving the stretcher.

WARNING! Handling should only be carried out on rigid flat surfaces with raised sides. Always lock the stretcher at the end of the handling.

To move the stretcher proceed as follows:

- Ensure that the sides are raised;
- Remove the power plug and wrap the cord;
- Release the brakes;
- Push or pull the trestle by grasping it by the headboard or footboard;
- The end of the journey to block the stretcher.
- Make sure that the control console has the **Pinserita key card**

7.5 Brake and unbrake the stretcher

The stretcher is equipped with four rotating wheels braking of which one with directional lock.

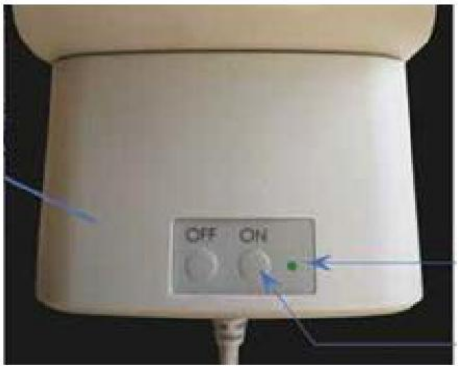
The control positions are:

Location A: the wheels are free, and the fifth steering wheel is activated
Location B: the wheels are free and rotating
Position C: the wheels are locked BRAKING

Position the pedal with one foot to achieve the desired function.

7.6 Battery

The stretcher is equipped with a removable rechargeable battery placed in the patient feet part as shown below circled by a red circle. Allows adjustments even when no connection to the mains power supply is required.
The battery capacity ensures a range of about 20 complete cycles.
The charging time is about 10-12 hours at completely empty battery.
The remaining charge level is indicated by the indicator light **(E).**
The battery can be activated and deactivated by means of two buttons, **ON and OFF**, placed on the battery housing. The LED located next to the buttons indicates the battery status: if GREEN the battery is charged, if ORANGE the battery is empty. NOTE: If the battery is low, it will sound an alarm whenever sections are moved.
To charge the battery, simply connect the power cord to the mains or use the battery charger (accessory cod. 7M009042).
NOTE: Leaving the power cord connected for long periods will not damage the battery in any way. The control unit is equipped with a software that manages the load optimally.
Even in the case of completely empty battery you can still use the stretcher. In this case it will not be possible to adjust the height of the sleeping surface.



To mount the battery, proceed as follows:

- Standing on the side of the stretcher;
- Insert the battery into the battery housing
- Do not release the battery before you hear the "click" of locking;
- Connect the power plug of the stretcher to the power outlet: the battery will start charging and the battery and console led (E) will start flashing **ORANGE**; When the battery has completed charging the LED will turn **GREEN.**

To remove the battery, proceed as follows:

- Press the battery release lever (image above) while carefully holding it properly

7.7 Raise and lower the stretcher

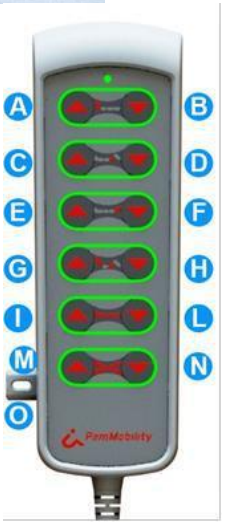
WARNING! Always advise the patient before adjusting the height of the stretcher.

The height of the stretcher is adjusted by two electric actuators controlled by a free control panel, by a control panel, by a pedal, by internal and external control panels for the platforms.

To adjust the height of the stretcher, it is necessary that the dedicated control is enabled (see paragraphs dedicated in the chapter "PUSHBUTTONS").

WARNING! Do not place your hands or objects between the base and the movable part. Do not manually operate on moving parts and follow the instructions.

To adjust the height of the stretcher proceed as follows:



FROM A FREE HAND CONTROL

- Press the Hyperlift button **on the stretcher**;
- Press the Lower **Stretcher** button.

BY CONTROL PANEL

press the B button **(** up **arrow) +** Gperalzarela stretcher; press the

C(down **arrow) + Gfor lowering** the stretcher.

7.8 Raise and lower the back section

WARNING! Always advise the patient before adjusting the back of the stretcher.

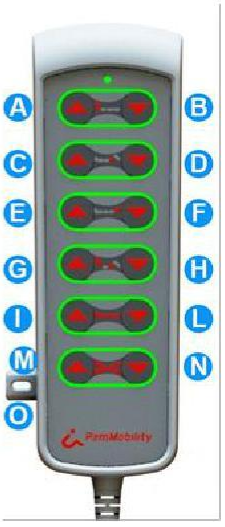
The regulation of the back section of the stretcher is achieved by an electric actuator controlled by a free-hand control panel, and internal and external control panels for the sides.

To adjust the backrest section, it is necessary that the dedicated control is enabled (see paragraphs dedicated in the chapter "PUSHBUTTONS").

WARNING! Do not place your hands or objects between the backrest and the frame of the network table.

Do not manually operate on moving parts and follow the instructions.

To adjust the back section proceed as follows:



FROM A FREE HAND CONTROL

- press the Open button to push **the backrest section** ;
- press the Bfor **lower back section**

BY CONTROL PANEL

press the B button **(** up **arrow) +** Press the backrest; press the **C(** up arrow) + Dto lower the backrest section.

7.9 Raise and lower the upper leg section

WARNING! Always alert the patient before adjusting the upper leg section.

The upper section of the stretcher legs is controlled by an electric actuator operated by a free-hand control panel, and internal and external control panels for the sides.

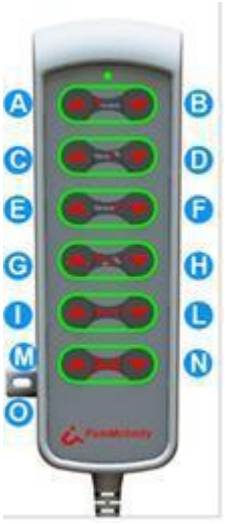
To adjust the upper leg section, it is necessary that the dedicated control is enabled (see paragraphs dedicated in the chapter "PULSANTIERE").

WARNING! Do not place your hands or objects between the upper section of the legs and the frame of the net top. Do not manually operate on moving parts and follow the instructions.

To adjust the upper leg section proceed as follows:

FROM A FREE HAND CONTROL

- press the Cpress button **on the** upper leg section ;
- press the Dpour **lower button** on the upper leg section



BY CONTROL PANEL

press the B button **(** up **arrow) +** Raise the upper leg section**; Press the** C(up arrow) + Lower the upper leg section.

7.10 Simultaneously raise and lower the back section and upper leg section (Autocontour)

WARNING! Always alert the patient before adjusting the sections.

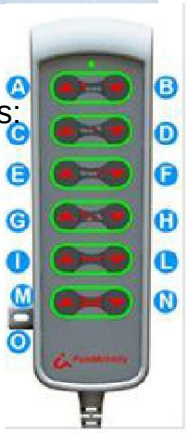
The simultaneous adjustment of the back section and the upper section of the stretcher legs is achieved by means of two electric actuators controlled by a free push-button, control panel and internal and external control panels for the sides.

To adjust the autocontour position, it is necessary that the dedicated command is enabled (see paragraphs dedicated in chapter "control panel ").

WARNING! Do not place your hands or objects between the sections and the frame of the network table.

Do not manually operate on moving parts and follow the instructions.

To adjust the autocontour position, proceed as follows:



FROM A FREE HAND CONTROL

- press the Gperalzaresimparallelly **the** back section and the upper leg section;
- Press the Hperlower button **simultaneously** on the back section and upper leg section.

BY CONTROL PANEL

press the B button **(** up **arrow) +** Hyperlift the back section and upper leg section simultaneously;

Press the **C(** up **arrow) + Hyperlower** the back section and upper leg section simultaneously.

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7.11 Trendelenburg and Reverse trendelenburg

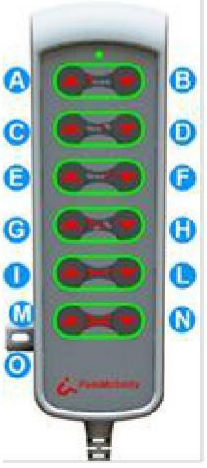
7.11.1 Trendelenburg

WARNING! Before making any regulation alert the patient.

The trendelenburg position is controlled by an electric actuator controlled by a free-range control panel, control box and external control panels for banks.

To adjust the position of trendelenburg it is necessary that the dedicated command is enabled (see paragraphs dedicated in chapter "PULSANTIERE").

To adjust the position of trendelenburg proceed as follows:



FROM A FREE HAND CONTROL
press the Muntil **you reach the** desired position

*CAUTION: Make sure that the key card **is present** and inserted properly.*

BY CONTROL PANEL
Press the B button **(** up **arrow) +** Huntil you reach the desired position.

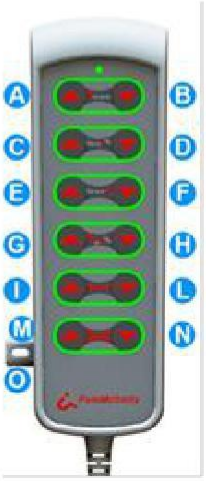
7.11.2 Reverse trendelenburg

WARNING! Before making any regulation alert the patient.

The controtrendelenburg position is controlled by an electric actuator controlled by a free-range control panel, a control box, a control panel and external control panels for the sides.

For the regulation of counter-movement of the Burgis necessary that the dedicated command be enabled (see paragraphs in chapter "PULSANTIERE").

To adjust the controtrendelenburg position proceed as follows:



FROM A FREE HAND CONTROL
press the Nuntil **you reach the** desired position

*CAUTION: Make sure that the **Osia key** is present and inserted*

BY CONTROL PANEL
Press the **C(** up **arrow) + Huntil** you reach the desired position.

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7.12 Comfort position (chair)

WARNING! Always advise the patient before adjusting the stretcher sections.

The comfort position (or chair) is obtained by combined movement of the back section, upper leg section and countertilt. It is achieved by three electric actuators controlled by a control panel and internal and external control panels for the banks.

WARNING! Do not place your hands or objects between the moving sections and the frame of the network table. Do not manually operate on moving parts and follow the instructions.

To adjust the comfort position proceed as follows:

BY CONTROL PANEL
press the Luntil key **to** reach the desired position;
To reset the position press the total reset button or lower each section individually by referring to the previous paragraphs.

7.13 CPR total position zeroing

The automatic total zeroing of positions allows to intervene in emergency operations, and is obtained by electric actuators controlled by control panel and external control panels for banks and for exclusive use of the operator.

WARNING! Do not place your hands or objects between the moving sections and the frame of the network table. Do not manually operate on moving parts and follow the instructions.

For automatic position zero, proceed as follows:

BY CONTROL PANEL
press the Nuntil **you reach the** desired position: the command resets the network plane and brings you to minimum height.

7.14 Trendelenburg emergency

The trendelenburg position adjustment with all sections lowered is achieved by an electric actuator controlled by control panel and external control panels for sides and for exclusive use of the operator.

Be careful! The emergency trendelenburg is ONLY activable if the control inhibition switch is in "unlock all controls" position.

To adjust the position of emergency trendelenburg proceed as follows: FROM CONTROL PANEL

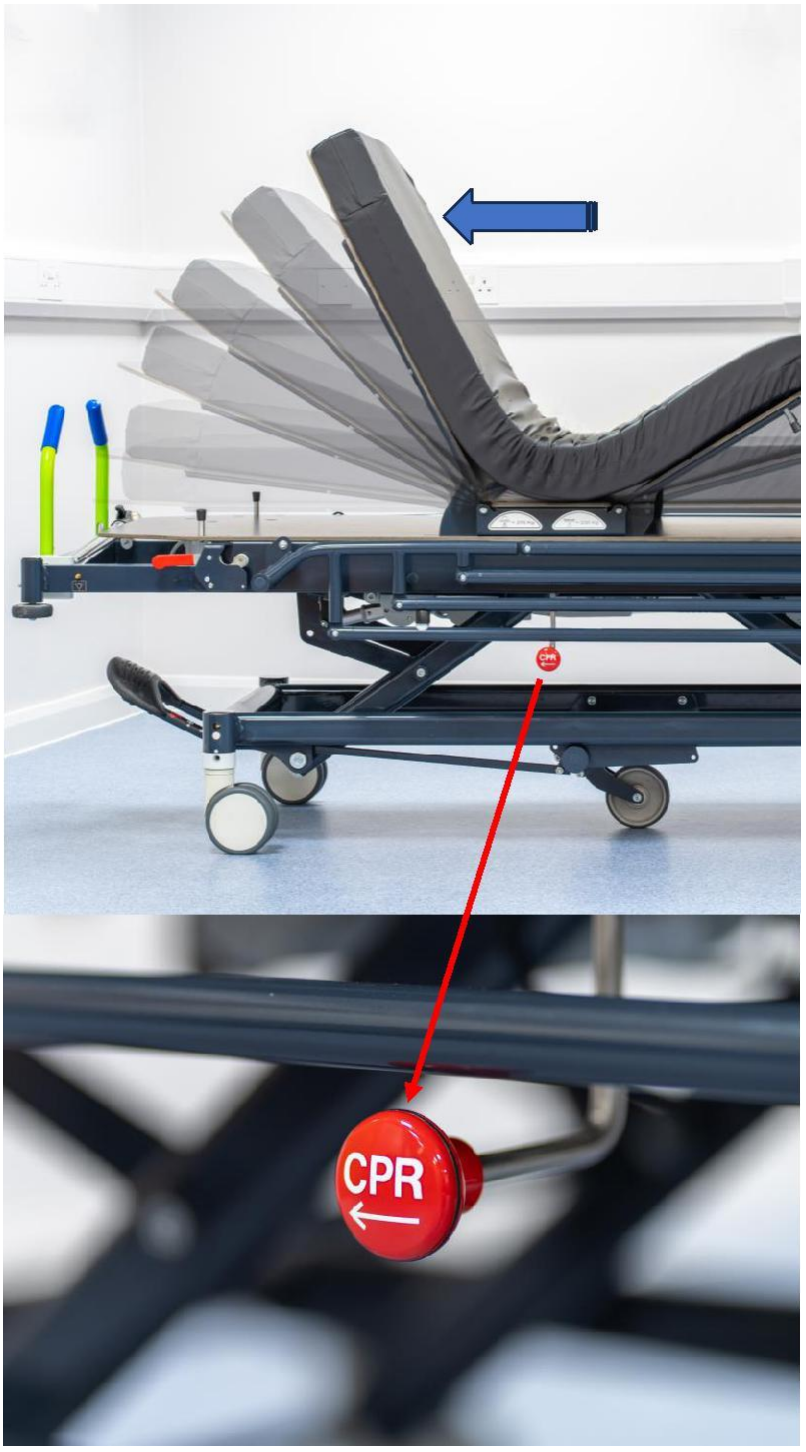
Press the Muntil **you reach the** desired position: the command resets the network plane and brings you to the trendelenburg position.

7.15 Emergency CPR back release device

The CPR back release device allows you to quickly lower the backrest in an emergency and is activated by a bilateral lever located under the network floor.

To lower the backrest proceed as follows:

- Unlocking the backrest by grasping it with one hand and acting on the CPR release handle by pulling it towards the side pointing to the arrow on the red knob;
- Lower the backrest while descending.



7.16 Safety position at night

The stretcher has a "night safety" position, which is a function that automatically brings the stretcher floor to a minimum height of 380 mm from the floor. This position is achieved by means of an electric actuator controlled by a push-button with magnetic key, by control panel and external control panels for the sides and for the exclusive use of the operator.

Be careful! The night safety position can be activated ONLY if the control panel is in "unlock all controls" position.

To bring the stretcher into the programmed "night safety" position proceed as follows:

FROM A FREE HAND CONTROL
The minimum night safety height cannot be reached with the open panel.

BY CONTROL PANEL
Press the **C + G** button : the stretcher will lower to the minimum standard height.**Press** the C + Guntil key again when the night position is reached.

7.17 Raise and lower the lower leg section

WARNING! Before adjusting the bedside bedside bedside, please warn the patient.

The lower leg section cannot be raised or lowered manually

WARNING! Do not place hands or objects between the lower leg section and the net top or sides.

7.17.1 Adjust the lower section of the legs

WARNING! Lower the lower leg section to check for obstructions.

To raise the lower leg section proceed as follows:
Hold and lift the lower leg to the desired position, manually hold the foot bar raised.

To lower the lower leg section proceed as follows:
Gently lower the table to its full support on the mesh frame.

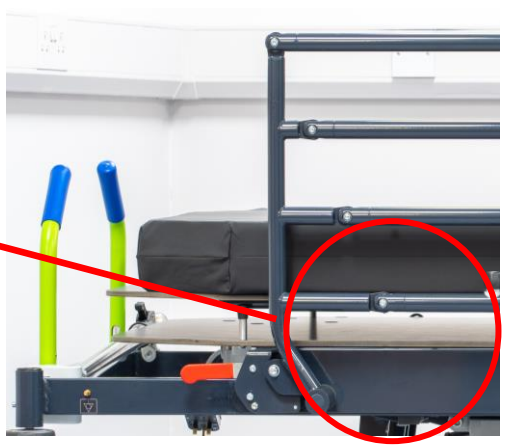
7.19 Handling of the SIDE RAILS

WARNING! Always advise the patient before any adjustment

For the movement of the compass SIDE RAILS on board the device proceed as follows:

RAISE AND BLOCK THE BANKS

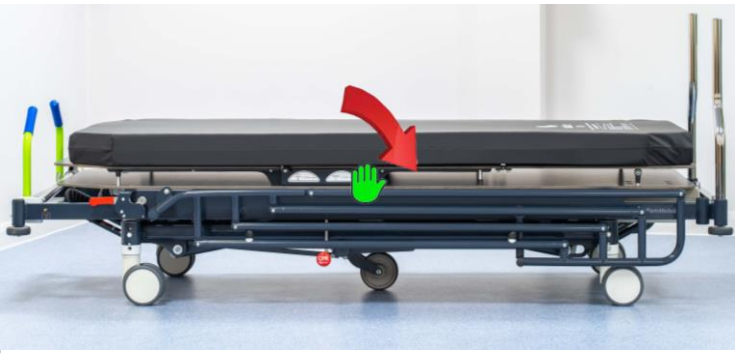
To raise the sides, lift the side of the bed with the first handle and lift it towards the patient head.



WARNING! Make sure the side is locked to its sed. The side once raised and locked must not go down and move downwards

LOWERING THE SIDE RAILS

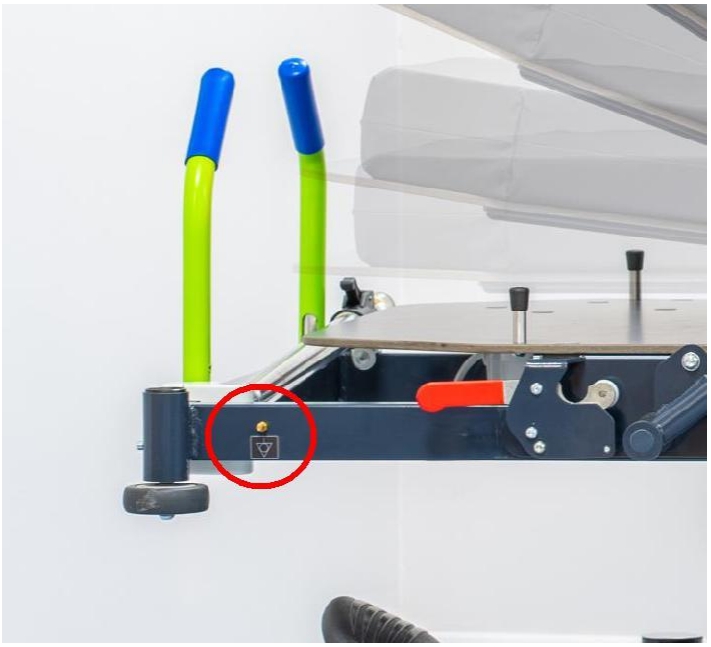
To lower the banks must unlock them by lifting the appropriate red lever as shown in the figure and accompany the bank downwards.



WARNING! Always advise the patient before making any adjustment. Make sure that the patient has no body parts between the sides of the bank before unlocking and lowering the bank.

7.20 Equipotential link

The electric beds are equipped with an equipotential connection clamp on the side of the stretcher head; The clamp is necessary for equalizing the electrical potentials of all unprotected metal parts.



WARNING! DANGER OF ELECTRIC SHOCK.

The equipotential connection cable must always be used if the patient is connected to intravascular or intracardiac equipment. The cable must be connected to the equipotential connection terminal on the stretcher; It is therefore necessary to connect the latter to an appropriate equipotential terminal.

8.0 SANITIZATION

8.1 Sanitizing products

Be careful! Sanitising agents are corrosive.

The best sanitising and disinfecting agents are those most commonly used in industry. Follow the manufacturer's instructions for use for your specific application. If possible, ask the manufacturer for guarantees on the degree of corrosiveness of the solutions used. Any modification of these features could damage the item.

It is very important to follow the specifications concerning concentration, temperature and reaction times. Any modification of these features may damage the device. During the sanitization phases, use only:

- cold mineral water;
- hot water max. 95°C;
- alkaline solutions max. 80°C;
- Acid solutions;
- Disinfectant solutions.

Do not use sulphuric acids or mineral acids such as HCl, H SO , HNO and H SO

8.2 Sanitization with products containing halogens

CAUTION: Do not use halogen-containing products during closed circuit sterilization, the stretcher may be damaged.

When used improperly these products can corrode steel especially if the pH is low.

Perform thorough checks before using these solutions.

If the device is to be sanitized using halogen-containing sanitizers (e.g. chlorine), the following requirements shall be followed:

- the pH must be above 10;
- the temperature must not exceed 40°C;
- the solution must not be in contact with the stretcher for more than 20 min.;
- Use a concentration of max. 50 ppm active chlorine;
- After sanitization, rinse thoroughly with water.

8.3 Intervals of sanitization

The sanitization intervals are defined by the user, according to the needs, taking into account the indications given in this manual and those given in the sanitizing products used.

8.4 Automatic sanitization

The automatic sanitization (autoclave) is defined by the customer, according to the needs, taking into account the indications given in this manual and those given by the sanitizing products used.

8.5 Manual sanitization

Manual sanification will be defined by the customer, according to the needs, taking into account the indications given in this manual, and those given by the sanitizing products used.

Be careful! Always check the safety data sheets of the materials used for sanitization. In case of contact/ inhalation and/or ingestion, follow the instructions given on the prescribed sheets.

9.0 MAINTENANCE

9.1 Periodic verification

The user staff shall inspect the article at least once a year; the inspection shall include a visual search for any damage that could compromise the integrity and proper functioning of the item. Which: The European Commission

- Integrity of power cables and plugs;
- Correct connection of the power cable;
- tightening screws;
- correct insertion and fixing of any accessories;
- Cleaning wheels and general product.

Be careful! If damage is found, immediately remove the product from service until repair or replacement has taken place.

Be careful! Cleaning and maintenance operations must be carried out with the stretcher disconnected from the mains supply.

WARNING! The technical staff must check the efficiency of the battery at least three times a year.

To check the efficiency of batteries proceed as follows:

- Disconnect the power plug from the electrical outlet;
- at least two handling cycles for each of the adjustments that can be made on the stretcher.

9.2 Technical assistance

Requests for assistance from the customer service department must be sent by e-mail to:

Pam Mobility s.r.l.
Via Verdi 39 - 42043 Gattatico (RE) - Italy
Tel 0522 473859 - Fax 0522 1548244
E-mail: info@pammobility.com
http: www.pammobility.com

Specifying: The

- Product code, serial number, production code, year of installation;
- Defects found;
- The exact address of the place where the stretcher is installed.

WARNING: all assistance must be carried out by Pam Mobility staff. Assistance by unauthorised persons may impair the operation of the stretcher and cause damage to people or property. Pam Mobility s.r.l. assumes no liability for damage to property or persons resulting from assistance interventions carried out by unauthorized personnel.

9.3 Provision

In case of long-term storage of the product, it is necessary to:

- Place it in a dry and sun-protected place;
- Protect it from dust by covering it with a nylon cloth;
- Grease the parts which could be oxidized or damaged if dried.

9.4 Demolition and disposal

The materials of which the stretcher is composed consist essentially of:

- Painted or galvanized ferric steel;
- plastic material in abs;
- elastomers;

Disassemble the stretcher separating the individual pieces according to the material with which they are made, it is mandatory to dispose of the different materials in accordance with the legislation of the country where the stretcher must be disposed. With regard to the disposal of consumer products, act as follows.

Products for the sanitization

- Products used for sanitisation shall not be discharged into urban drains.
- Ask the local authorities for information on disposal arrangements.

- The battery of the motor control unit should be regularly replaced by an electrician. Used batteries should not be disposed of with ordinary waste, but should be returned to the appropriate disposal centres.

9.5 Battery

The stretcher is equipped with a battery for operation in case it is not possible to connect to the mains.

The charging time is about 10-12 hours at completely empty battery.

It is advisable to ensure that the batteries do not discharge completely, but to recharge them frequently in order to obtain a longer life.

Batteries should be replaced after 3 years.

To optimize battery life, the control units should be connected to the network as much as possible. Batteries should be recharged at least every 3 months. Otherwise they damage and self-discharge.

When the stretcher is powered only by the additional battery, 20 complete movements can be performed.
When the battery reaches 50% of its charge, each movement will sound an alarm.

A performance test is recommended at least once a year.
Batteries should only be replaced with original models supplied by the manufacturer.

CAUTION: The battery has no capacity to ensure the operation of the stretcher for long periods but only serves as a buffer in case of temporary power failure. Reconnect the stretcher to the power outlet as soon as possible.

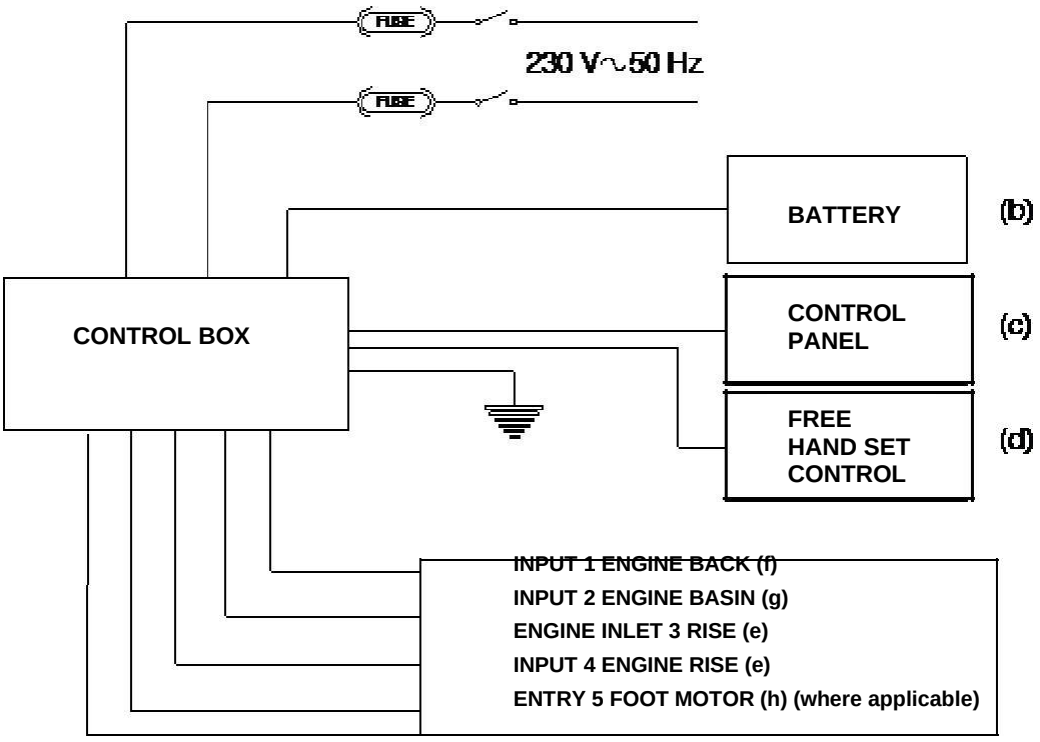
9.6 Problem solving

Defect	POSSIBLE CAUSE	Intervention
The power supply device does not turn on	Not connected to the power line.	Connect to the power supply line.
	Power cord defective.	If cable interchangeable replace with new. If cable fixed send to service center.
	Faulty control unit.	Send the control unit to repair.
The power supply device turns on but The actuator is not working. They can hear the click Control unit relay.	Actuator pin not well inserted in the socket on the control unit.	Insert the actuator pin firmly into the control unit.
	Actuator defective.	Replace the actuator.
	Control unit defective.	Replace the control unit
The power supply device turns on But the actuator does not work. Not to be heard Relay noises coming from the ECU control.	Control unit defective.	Send the control unit to repair.
	The pressure switch is defective.	Send the panel to repair.
The ECU battery is completely discharge and do not hear the relay	Battery is completely dead.	Recharge the battery.
	Defective battery.	Replace the battery.
One output of the control unit allows only one The direction of travel to the connected actuator.	The pressure switch is defective.	Send the panel to repair.
	Control unit defective.	Send the control unit to repair.
Actuator does not carry maximum load expected.	Damaged safety clutch (if LA 38)	Send the actuator to be repaired.
	The actuator is damaged.	
Noise from actuator but no movement.	The actuator is damaged.	Send the actuator to be repaired.
The engine is running but the quick release is noisy or it doesn't work.	The clutch disconnection arm has a rotation below 75°.	Adjust the control cable.
The actuator moves only inward and not towards the outside.	The safety screw has been put into operation	Send the actuator to be repaired.

10.0 Warranty

Throughout the warranty period, the manufacturer undertakes to eliminate any defects and/ or defects of the stretcher provided it has been used correctly in accordance with the instructions given in the user manual and maintenance.
The replacement of parts with other not conforming to the specifications Pam Mobility s.r.l. if commercial, or not provided by Pam Mobility s.r.l. if designed, make the warranty void, as well as improper use of the stretcher.

11.0 ELECTRICAL SYSTEM DIAGRAM



POS.	Description
a	Control unit MCLTC21care 4 outputs 230V IP 66 830.90.67209
b	Battery buffer TBB2-4398-001-0
c	ACO TNP6-4398-001
d	Push button TH12
e	TA23 New MCZ 4KN 6000 NW trolley lift 830.90.64553
f	Actuator back TA1
g	Actuator basin TA31
h	Foot actuator (where provided) TA31

Felgains, 33 Knightsdale Rd, Ipswich, IP1 4JJ
E: mail@felgains.com
T: 01473 741 144
W: www.felgains.com