



Solutions Start Here...



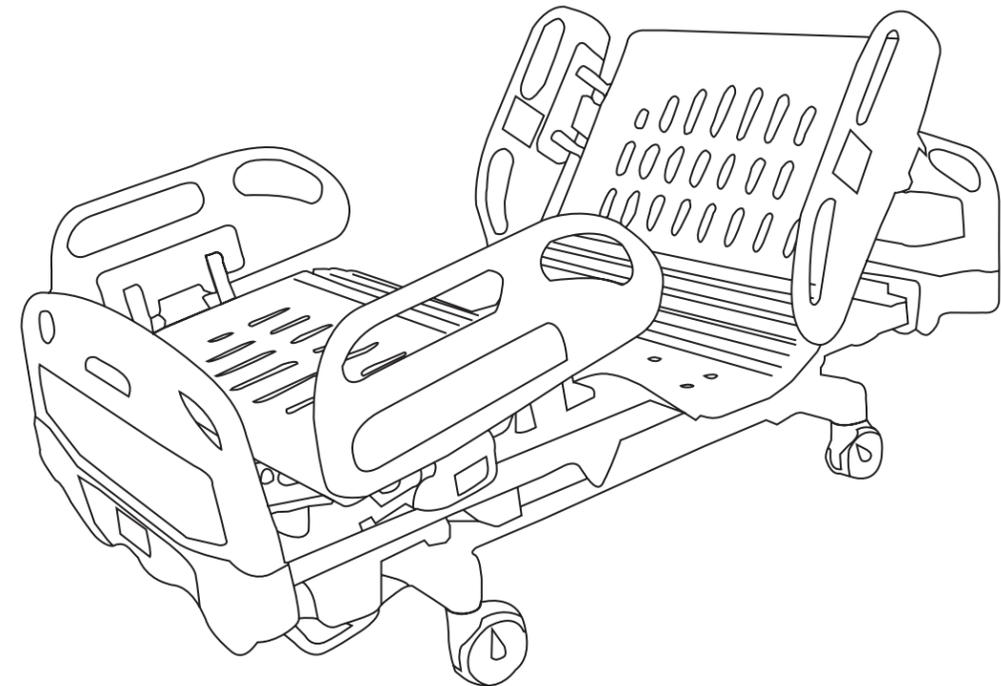
Solutions Start Here

www.smpcanada.com

SMP Canada

10 Sims Crescent, Richmond Hill
Ontario, L4B-1K9 Canada
Tel: (905) 764-7767 Fax: 1-866-627-9798
support@smpcanada.com

SMP 525EL



USER & MAINTENANCE MANUAL



USER MANUAL

GENERAL PATIENT ROOM BED SMP 525EL

About Us

We are a company that draws on innovation and excellence to provide solutions that enhance the ability for caregivers to effectively fulfill their duties. Our goal is to build a high-performing medical technology company that gives healthcare providers the tools they need to achieve better outcomes.

We are committed to helping our customers deliver safer, more efficient, technologically advanced equipment to the market place. Caregivers throughout the world look to us for solutions because we strive for excellence and adhere to their suggestions for improvement. We bring the passion, dedication, innovation and the drive in developing solutions that matter in making a difference in the lives we help save.

At SMP, we believe results speak louder than words. Our company is one that sets high standards with an emphasis on paying attention to details. We are passionate about raising the bar and regularly surpass our own ambitious goals.

Our products comply with and conform to world renowned healthcare standards such as NFPA, HTM, CSA, CE, FDA, IEC, UL and ISO 13485. We continually strive to achieve superior clinical results. We push the frontiers of medical research while maintaining uncompromising clinical integrity.

Our strategic relationship extends out to over 30 partners globally. Our partners rely on us regularly to provide quality turn-key solutions to better serve the health care industry.

We take great pride in providing accredited products that meet and exceed industry requirements.

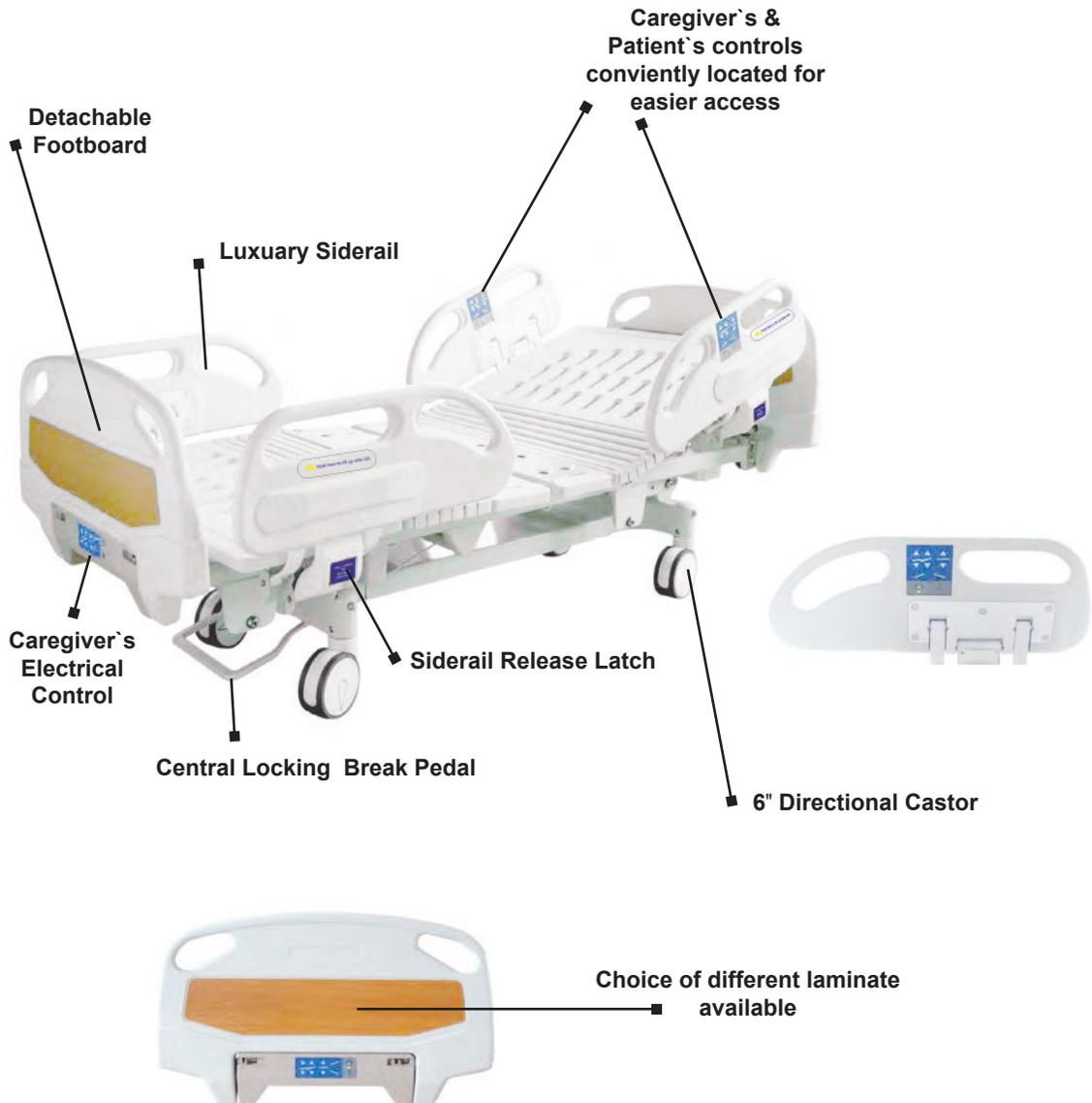
At SMP, we don't just make promises, we deliver results!





USER MANUAL

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USER MANUAL

GENERAL PATIENT ROOM BED **SMP 525EL**

General Remarks - User Manual

We congratulate you on your choice of an SMP five function electric hospital bed and would like to thank you for your confidence in our company and its products.

You have purchased an SMP-525EL electric hospital bed developed and manufactured in accordance with the currently available technical knowledge.

SMP Canada's electric hospital beds fully meet all safety and operational requirements. They are tested in accordance with international standards and carry the CE seal. This confirms that they fulfill the safety requirements relating to medical products.

This user manual is intended to give you and your staff practical information and tips on the safe and correct use of the SMP five function electric hospital bed.

When putting the bed into service for the first time, or when performing operations and maintenance, it is highly recommended to read this manual and strictly abide by and enforce the safety procedures in this user manual.

To avoid faulty handling and to ensure the trouble free operations, it is highly advised to have this document available to caregivers and/or patients at all times.

Secondary Medical Products Canada Inc.

SMP Canada

10 Sims Cres

Richmond Hill, Ontario, L4B 1K9

Canada

Tel.: ++1 905-764-7767

Fax: ++1 866-627-9798

E-Mail: info@smpcanada.com

Website: www.smpcanada.com



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1.) Performance Characteristics

1.1) Moveable headboard and footboard for easier access to the patient

SMP's ergonomic design allows caregivers to have access to the patient's head or feet by instantly removing the headboard and the footboard.

1.2) 5 Function Electrical Features

SMP-525EL bed allows you to adjust the bed in 5 different positions i.e.

- a) Automatic adjustment of height
- b) Automatic adjustment of upper leg
- c) Automatic adjustment of the back section
- d) Trendelenburg
- e) Reverse Trendelenburg.

1.3) Automatic lifting side rails

It makes a world of a difference to have the luxury of retracting side rails installed on a bed. It can be used as an added safety measure to limit the patient from rolling out of the bed or simply have it as a support for the patient to get in and out of the bed.

1.4) 2 section IV pole with 4 hooks made from stainless steel

Our engineers have designed the bed in a way that the IV pole can be installed in all four corners of the bed. The installation takes only a few moments so that the caregivers can spend more time caring for patients.

1.5) Central locking brake system

SMP-525EL is ergonomically designed with caregivers and patients in mind. This is why we have developed a central brake system which can be engaged and released by a centrally located foot pedal.

1.6) Back and foot adjustment allows for an anatomically correct sleep surface

There are times when the patient needs to sleep in an anatomically correct sleep surface. SMP-525EL allows you to adjust the back section 0-65° and the foot section 0-45°.

1.7) Trendelenburg Position

To allow better access to the pelvic organs SMP engineers introduced 0-10° trendelenburg capability in the SMP-525EL. This is a standard position used in abdominal and gynecological surgery.



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1.8) Reverse Trendelenburg Position

This position is a common surgical position. SMP-525EL allows maximum angle of 0-10° for this position.

1.9) 6” castors for easier maneuverability

SMP-525EL is ergonomically designed for the safety of the caregivers and the patients. We understand that continued strenuous activity can take a toll on the caregivers' body. This is why we have designed and installed 6” castors on our beds, so that caregivers can have a lot less strain on their bodies while pushing the bed. Our castors have passed the load bearing test of the European council directive 2002/95/EC & 2005/618/EC.

1.10) Side bumpers

In emergency situations, when you are pushing the bed from patient room to surgical room the last thought on your mind is to protect the bed from scrapes and scratches. That is why we have specially designed light weight bumpers and installed them on all four corners of the bed.

1.11) Caregivers supervisory control panel

The caregiver's supervisory control has been conveniently placed at the footboard of the SMP-525EL. The functionalities can be locked by a touch of a button on the footboard which prevents access to the functions on the side rails.



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2.) Technical Data

Bed Length with Standard sleep deck.....	(228.6 cm)/(2286.0 mm)
Width (with side rails up).....	(110.9 cm)/(1109.0 mm)
Width (with side rails down).....	(93.0 cm)/(930 mm)
Height of Sleep Deck (in low position).....	(51 cm)/(510 mm)
Height of Sleep Deck (in high position).....	(70 cm)/(700 mm)
Under bed Clearance.....	(13.9 cm)/(139.0 mm)
Head Section Articulation.....	0 through 65°
Knee Section Articulation.....	0 through 45°
Castor Size.....	(15.0 cm)/(150 mm)
Safe Working Load.....	551 lbs. (250 kg)
Operable Temperature Range*.....	+10° C to +40° C
Operable Relative Humidity Range**.....	30% to 95% non-condensing

* Product withstands storage/transportation in temperature range of -40° C to +70° C

** Product withstands storage/transportation in relative humidity range of 10% to 95%



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3.) Warranty and liability

We accept liability for possible errors and omissions within the terms of warranty laid down in the main contract. Claims for damages – from whatever legal grounds they may be held to derive – are expressly excluded.

We reserve the right to make technical changes to the hospital beds described in this user manual in accordance with technical developments.

We accept no liability whatsoever for any damage and/or disruption caused by faulty handling and/or a failure to follow the instructions in this user manual.

4.) Safety regulations

The SMP-525EL may only be put into service, operated and used

- a) as intended by manufacturer,
- b) in accordance with the provisions of the medical products law (MPL) and its enacted statutory instruments
- c) with due regard to good technical practice
- d) in accordance with safety and accident-prevention regulations.

On no account may the bed be used in a faulty condition that could endanger patients, caregivers or others.

The hospital bed may only be operated by those able to guarantee its correct handling by virtue of their professional qualifications, knowledge and/or experience.

4.1) General safety instructions

CAUTION!

Refer to user manual!

Please read safety instructions!

WARNING! – Serious injury can be caused when moving powered parts of the bed. Make absolutely sure that there are no parts of the body protruding through the safety frames during electrical operation. Ensure without fail that there are no people, pets or objects beneath the bed.

WARNING! – Increased safety measures are necessary when the bed is being used...

1. ... by a child under 12 years of age,
2. ... by a person with reduced mental faculties,
3. ... for psychiatric purposes.



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WARNING! – In order to avoid falls, always return the bed to its lowest position after each use of the adjustment functions. Make absolutely sure that:

- a) The bed is in lowest position before getting into or out of it, and
- b) The brakes are applied.

WARNING! – Safety frames only mark the limits of the bed. Other appropriate measures must be used to restrain patients.

WARNING! – Children under 12 and people with reduced mental capacities may only occupy SMP beds when the safety frames are covered by protective covers as doing so can result in a serious risk of injury! Please refer to user manual.

WARNING!

Make sure that the cable does not get caught in moving parts.

WARNING!

- > Only use original spare parts for repairs.
- > Only repair bed when it is in lowest position.
- > Pull out power plug before repair or cleaning.

4.2) Checking the operational safety and condition of the bed

Before putting the bed into service, it is essential to make absolutely sure that it is in good working condition and safe to use. This test must not only be carried out before first use, but continuously throughout the service life of the bed. If necessary, the bed must be tested daily or after each shift to ensure that its use does not endanger anyone. To reduce maintenance to a necessary minimum, the bed should be cleaned, disinfected and tested as soon as possible after each use so that it can be used again without delay or risk.

In cases of malfunctioning, it may be necessary to transfer the patient to another bed.

4.3) Position of the hospital bed – Danger if falling out of bed

In the case of unsupervised patients, we recommend that the bed is put into its lowest position to minimize the risk of injury due to the patient falling out of the bed. In other cases, the bed should be put at a height proportionate to the size of the patient.



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4.4) Four-castor central braking system – Caution! Risk of accident

Unless in transport, the brakes must always be applied so that patients can use the bed as a support when accessing or exiting it. Serious falls can result through an un-braked bed rolling away. After applying the brakes, check that the bed is completely immobile, i.e. that the brakes are fully applied to all four castors.

4.5) Height adjustment – Risk of entrapment between bed-frame and chassis

When adjusting the bed, make absolutely sure that no limbs, bedding or other objects are situated between the bed frame.

4.6) Side Rails - Danger of entrapment

1. Side Rails may be operated **only** by caregivers instructed in their use.
2. Make sure side rails – or elements of them – are either fully raised and locked or fully lowered.
3. During the electrical adjustment of the mattress-frame, make sure that the patient is not touching the side rail. Also make absolutely sure that no limbs are poking through the frame.
4. We also recommend the use of safety frame covers. Failure by caregivers to obey these safety rules may cause hematoma or other injury to hands, knees, fingers, feet, shins and hips through entrapment.

4.7) Electrical Safety

The bed is fitted with a connection for a voltage compensator. It is supplied with electricity via the power cable and is isolated from the main circuit by a safety switch when not in use.

4.8) Operating interval

Automatic safety devices kick in if the maximum operating interval of 1 minute is repeatedly or noticeably exceeded, leading to the power drives cutting out. The bed must then be inspected and tested!

An integrated time-lag device hinders the accidental or brief operation of the keyboard and on sequent movement of the mattress-frame. This device requires that users consciously press and hold down the relevant key. Functions then kick in after a time-lag of ca. 0.5 seconds.



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4.9) Built-in safety switch

The bed is fitted with a built-in electronic safety switch that hinders the overloading of the drives. In the event of overloading, the drives are automatically switched off.

5.) Intended use

SMP's electric hospital beds are intended to be used solely for the care of patients in patients' rooms in hospitals, clinics and/or nursing institutions.

Any use of SMP hospital beds that deviates in any way whatsoever from this intended use is expressly excluded from possible liability claims.

5.1) Incorrect use

The incorrect use of the bed can be a source of danger. Examples of incorrect use are:

- Incorrect operation of electrical functions and unsupervised positioning.
- Use of hospital bed with children under 12.
- Operation of hospital bed by patients without prior instruction.
- Simultaneous operation of electrical functions by different people.
- Constant operation of keyboard ('piano playing').
- Connecting electrical devices to the bed which are not suitable for the purpose intended (subject to management's discretion).
- Moving bed by pulling on cable.
- Disconnecting electric plugs by pulling on cable.
- Using bed on sloping surfaces with gradients in excess of 10° (bed brakes designed for a maximum gradient of 10°).
- Trying to move bed with brakes applied.
- Transporting patients by towing or pushing bed with a vehicle.
- Using bed with loads in excess of specified maximum safe working load.



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6.) Before using the bed for the first time

Before the bed is put into service for the first time, this user manual must be read carefully by all those responsible for nursing care.

Before the bed is put into service for the first time, it is absolutely essential to carry out a functional test.

Before using the bed for the first time, caregivers must receive detailed instructions in the operation of the bed. In addition, caregivers must fully be made aware of potential dangers that can arise in spite of the correct operation of the bed.

6.1) Functional test

A functional test **must** be carried out in the following circumstances:

1. When the bed is put into use for the first time.
2. When the bed is to be used by a new patient.
3. When the bed is put back into use after a period in storage.
4. When the bed is put back into use after cleaning and/or disinfection.
5. When it is necessary to identify incidents of malfunctioning or faults.
6. At least once a year.

6.2) Carrying out a functional test

1. Check all visible components for damage, distortion, breakages and broken cables.
2. Using caregiver's controls, move all mattress-frame sections into end position and ensure that end-stop switches turn motors off (no sound of motors, acoustic test).
3. Using caregivers' keyboard, raise and lower jack to upper and lower end stops. Check for parallel movement of mattress-frame relative to bed frame. When end stop is reached, ensure that motors switch off (no sound of motors, acoustic test). The **selected** function must move in the **correct** direction.
4. Operate trendelenburg function until it reaches its maximum angle. Return to the start position by operating the reverse trendelenburg function.
5. Using the handset, briefly move the back-rest, upper leg section and jack in both directions.
6. Check brake functions "apply brakes", "release brakes" and "release brake with directional setting" by operating brake bar.



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The bed is always operational!

In case of malfunctioning or faults, inform the responsible service agency!

Warning: Make sure all functions are working correctly. If a fault is found, the bed must be taken out of use immediately and not put back into use until the fault has been corrected!

7.) Cleaning and disinfection

Risks can arise through the incorrect cleaning and/or disinfection of the bed.

7.1) Cleaning and disinfection - Wipe and spray disinfection

The use of chemical solvents, abrasive cleaning agents of any kind and organic solvents such as halogenated or aromatic hydrocarbons and ketone is not permitted. The use of highly concentrated caustic soda is also **not** permitted.

Follow these instructions when using cleaning agents and/or disinfectants:

- Decontaminants in the prescribed concentrations may not exceed or fall below a pH value of 6-8.
- They may not contain any corrosive or caustic substances.
- They may not contain any substances that alter surface finishes or the adhesive properties of plastics.
- They may not affect the properties of lubricants.
- Water hardness may not exceed 0.9 mmol/l (to 5° d).

Fully desalinated water may not be used.

Chloride < 100 ppm
Silicate as SiO₂ < 15 ppm
Iron < 0,05 ppm
Manganese < 0.01 ppm
Copper < 0.05 ppm

We accept no liability for damage to surface finishes caused by the use of unsuitable cleaning agents and/or disinfectants, by the use of incorrect concentrations of such cleaning agents and/or disinfectants or by the incompetent or inappropriate cleaning of the bed.



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8.) Service and maintenance

The SMP-525EL bed requires very little maintenance. All moving parts of the lifting gear, mattress-frame drives and safety frames are permanently lubricated during manufacturing process. None of these parts need re-lubrication when the bed is correctly used and cleaned. The manufacturer assumes, however, that beds are regularly inspected and damages such as worn parts, loose screws or fractures are immediately put right.

8.1) Maintenance Instructions

In case of repairs and maintenance work carried out on the bed, SMP only accepts liability for its safety and functional efficiency when:

- Delivery, maintenance and repair were carried out by a SMP Canada service technician or by a person authorized to carry out such work by SMP Canada, and
- The bed is used in accordance with the instructions given in the user manual.

9.) Explanatory notes for caregivers

This documentation contains all information necessary for the normal operation of the SMP electric hospital beds.

SMP accepts no guarantee claims whatsoever for damage, injury or accidents caused by carelessness, inattentiveness or the incorrect use of the SMP electric hospital beds. In this connection, the question of liability is irrelevant.

If required by the customer, SMP or its representative is willing to give caregivers basic training in the operation of the bed.

The participation in such training sessions for caregivers must be confirmed with name, date and signature on a form specifically intended for this purpose, which must be counter-signed by SMP or its representative.

The safety regulations contained in this documentation must be strictly obeyed and adhered to at all times.



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The conscientious observance of the safety regulations, modes of behavior and instructions described in this manual guarantees the safety of caregivers and patients.

Please note that functional features marked as special equipment are only available in bed which comes equipped with them.

9.1) Mechanical initiation

Push the head- and footboards supplied into the corner connectors of the bedframe. Use a screwdriver to remove the cover over the connecting block. Apply brakes.

In some scenarios, the brakes are not applied when the bed is put into service for the first time or brought back into service after a period of non-use.

Press down the foot-operated brake bar to apply the brakes. When brake bar is at an angle of 45° to the floor, brakes are completely applied. Fit accessories.

9.2) Electrical initiation

Input plug into mains socket.

- Press Red button underneath the headboard to “ON” position
- Hold on to the lock button ( S10) on the function keypad till the light turns green.
- Carry out functional test

The bed is now ready for use.

Warning! The functions of the bed will only work if the light on the keypad is on. Once the light turns off the functions will automatically stop working.

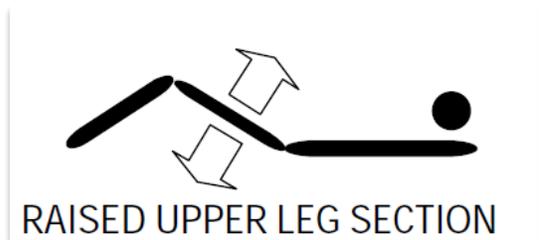
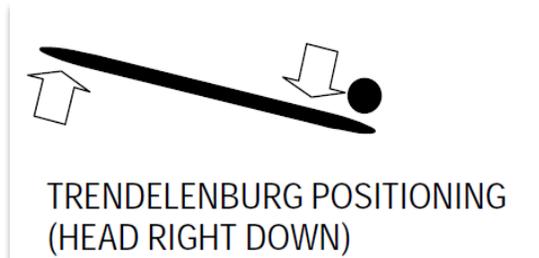
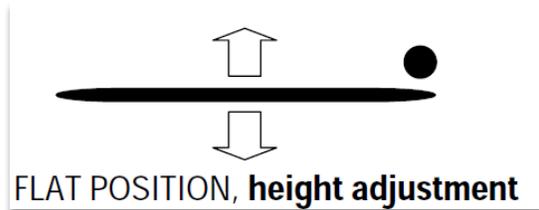
Operation with SMP electric keyboard



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10.) Types of patient positioning

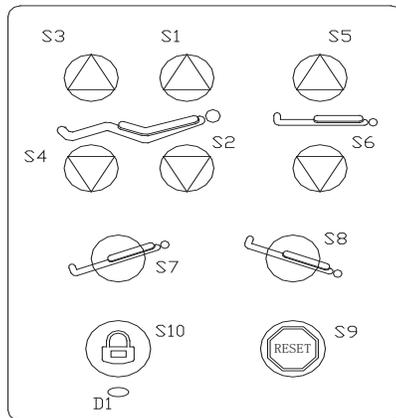




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11.) Operation Functions



Pic.1

The function of each press button is as below:

- S1---- raising the backrest;
- S2----lowering down the backrest;
- S3 ----raising the leg part;
- S4 ----lowering down the leg part;
- S5 -----uprising the whole bed;
- S6 ----lowering down the whole bed;
- S7 ---- trendelenburg
- S8 ----anti-trendelenburg
- S9 -----"Reset" button, to make the bed recover on flat and lowest position. On operating, please keep on pressing the button till the bed goes down to the lowest.
- S10--"Lock" system ; Lock and unlock.

Press on this button for more than 5 seconds, if indication light "D1" is off, then function button "S1" to "S9" is not available; if "D1" is on, "S1" to "S9" is available.

- D1----indication light; D1 is off, it is at "lock" status, D1 is on, it's at "unlock" status.

*** It is essential to pull out the main plug before transporting the bed!**



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*** If the bed is put into storage with disconnected charger, then self-discharge through leakage leads to the exhaustion of the batteries! Totally discharged batteries can be so badly damaged as to necessitate their premature replacement! In order to achieve a long service life, the correct treatment of both the batteries and the charger is absolutely essential!**

Summary of functions:

Back rest UP continuously raises back rest to enable patient to sit up.

Back rest DOWN continuously lowers back rest to enable patient to lie down.

Upper leg section UP continuously raises upper leg section so that the knees bend.

Upper leg section DOWN continuously lowers upper leg section into horizontal plane.

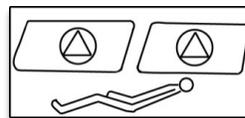
Height UP lifts whole mattress-frame to the required height.

Height DOWN lowers whole mattress-frame to the required level.

Important: To prevent the unauthorized use of the bed, the caregivers' keyboard is equipped with a deactivation device relating to certain functions.

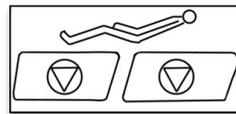
11.1) Electrical adjustment of back rest

Raise back rest by pressing the arrow
or the patient's control.



on the caregivers control

Lower back rest by pressing the
patient's control.



on the caregivers' control or

The mattress-frame back section can be raised to a maximum of 65 °.

While raising, the back rest shifts towards the headboard by a maximum of 150 mm (mattress displacement facility). This increases the patient's comfort by stopping him/her from sliding down the bed.

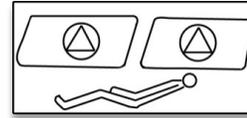


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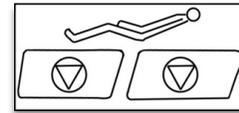
11.2) Electrical adjustment of upper leg section

Raise upper leg section by pressing the up arrow
caregivers' control or the patient's control.



on the

Lower upper leg section by pressing the down arrow
caregivers' control or patient's control.



on the

The mattress-frame back rest can be raised to a maximum of 65 °.

While raising, the back rest shifts towards the headboard by a maximum of 150 mm (mattress displacement facility). This increases the patient's comfort by stopping him/her from sliding down the bed.

Warning: When lifting the back section with raised safety frames, it is **absolutely essential** to make sure that the limbs of patients or others are not poking through or resting on the safety frames!

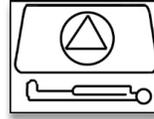


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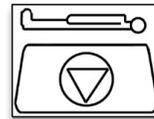
11.3) Height adjustment of bed

Raise the whole mattress-frame by pressing the or the patient's control.



key on the caregivers control

Lower the whole mattress-frame by pressing the control or the patient's control.



key on the caregivers

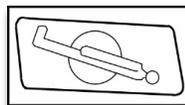
Warning: To avoid the risk of injury to patients, we recommend that the bed is fully lowered when in routine use!

Warning: Before lowering the bed, make sure that the space between the mattress-frame and the chassis is free of persons, limbs, bedding or any other objects. Ensure that brakes are fully applied before the patient's access or exit the bed!

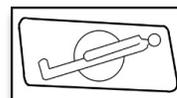
Warning: When lifting or lowering the mattress-frame with raised side rails, it is **absolutely essential** to make sure that the limbs of the patients or any other objects are not poking through or resting on the safety frames!

11.4) Trendelenburg and reverse trendelenburg positioning

The SMP electric mattress-frame can be put into the trendelenburg and reverse trendelenburg position required by caregivers irrespective of the height of the bed.



For the trendelenburg position, press the key until the required angle of tilt has been reached. The pre-set maximum angle of tilt amounts to 10°.



For the reverse trendelenburg position press the key until the required angle of tilt has been reached.



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11.5) Use of Side Rails

11.5.1) Operation of side rails

The SMP-525EL comes equipped with split side rails on both sides. When not in use, the frames are pushed down. This gives unobstructed access to the accessories bar and facilitates the use of bed jacks, even when the bed is in lowest position.

When raised, the safety frames:

- protect patients against falling out of the bed
- support patients when accessing or exiting the bed

11.5.2) How to raise side rails

Pull side rails vertically till you hear a clicking noise. The latch locks the side rail to the frame.

11.5.2) How to lower the side rails

Pull the latch attached to the side rail and simultaneously push the side rail down to its lowest position. To protect patients, the side rails can be raised individually or together, as appropriate. Raising all four frames provides patients with complete protection.



The side rails can be used in four possible configurations on each side:

1. All 4 side rails fully lowered.
2. Head end side rail raised to top edge of mattress and foot end side rail lowered (aid for exiting the bed) allows caregivers to carry out procedures with raised safety frame.
3. Head end side rails fully raised and foot end side rails fully lowered (aid for exiting bed).
4. All 4 side rails fully raised.



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GENERAL PATIENT ROOM BED SMP 525EL

These four configurations make the SMP electric bed highly flexible to use:

1. With all side rails down, caregivers have unhindered access to the mattress-frame. The bed looks like a normal bed, hence contributing to a pleasant and unthreatening atmosphere.
2. With head-end side rails raised to the top edge of the mattress and foot-end side rails lowered, patients can use the side rail as an aid for getting into and out of the bed. In this position, the side rails clearly mark the limits of the mattress-frame, while at the same time allowing patients to come and go at will. Furthermore, care procedures can be carried out without first having to lower the side rails.
3. With head-end side rails raised and foot-end side rails lowered, patients can use the side rails as an aid for getting into and out of bed. In this position, the frames clearly mark the limits of the mattress-frame, while at the same time allowing patients to come and go at will.

Caution: Danger of entrapment when foot-end side rails are later raised!

4. When all four side rails are fully raised, patients enjoy the greatest possible protection against falling or rolling out of the bed.

11.6) Four Castor Central Locking Brake system

A brake-bar is fitted at the foot end of the chassis for operating the central braking system.

The brake-bar has 2 switch positions:

- pointing downwards towards floor – all brakes fully applied
- pointing upwards towards the footboard – all brakes fully released

Warning: The brake must always be applied when patients are accessing or exiting the bed! Make absolutely sure that the brakes are always applied when the bed is in use, unless if the bed is being moved to another location.



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GENERAL PATIENT ROOM BED **SMP 525EL**

11.7) Installation and Removal of headboard and footboard

The headboard and footboard can be pulled off or pushed onto their respective holders on the head-end or foot-end cross-members without the help of any tools. Review the pictures below before installing or removing the headboard and the footboard.

The back of the headboard and the footboard is equipped with two secured lock hinges. When installing the headboard and the footboard place the hinges on the holders (located in both corners of the frame) and press the headboard and the footboard down to lock the hinges.

To remove the headboard and the footboard release the lock on the top hinges of the headboard and the footboard and pull it.

12.) Storage & Environmental Conditions

12.1) Environmental Conditions for Transport and Storage

Condition	Range
Temperature	-40°C - + 70°C
Relative Humidity	95% non-condensing
Pressure	50kPa to 106 Kpa
Position for Transport	Must be in its lowest position, the mattress frame must be completely flat

12.2) Environment Conditions for Use

Condition	Range
Temperature	10°C - 30°C
Relative Humidity	20% to 85% non-condensing
Pressure	70 kPa to 106 kPa

The bed is authorized for use solely in dry rooms, not in wet rooms such as bathrooms. The bed is mobile without the need for auxiliary transport equipment. The bed may only be moved on firm surfaces. Moving the bed over obstacles greater than 2cm in height is prohibited. Slopes may not exceed an angle of 10°.

The bed is supplied complete and can be set up without first having to remove transport equipment.

