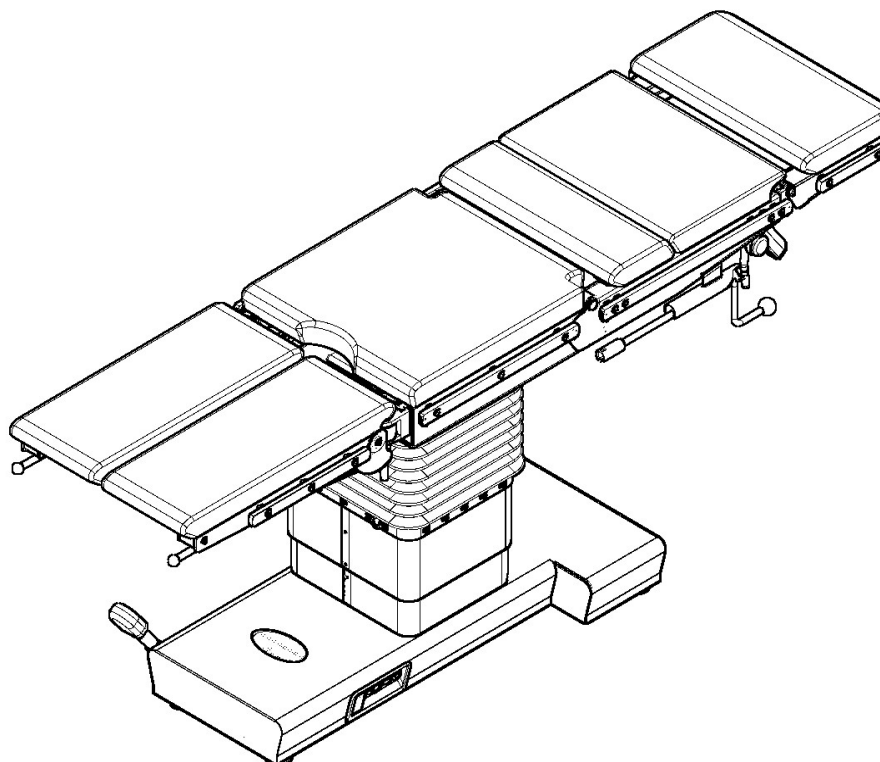


USER MANUAL



Operating table SU-03 Alternative name SU-03 PRIME

Factory no:

.....

Version 39.00

Issuance date: 17.07.2023



FAMED ŻYWIEC Spółka z o.o.

Appendixes: 2, 3, List of Spare Parts.

As provided in the regulation of the European Parliament and the Council (EU) 2017/745 of 5 April 2017 on medical devices, it is a class I device.

The producer declares that the product meets general safety and performance requirements specified in Appendix 1 of the regulation. The Conformity assessment was carried out on the basis of the technical documentation in accordance with Appendix II and III of the regulation.



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*Dear Clients,
Congratulations on choosing the right product, we wish you would find a lot of satisfaction while operating it.*

Please read this manual very carefully as it includes all the vital information and notes from the producer concerning proper installation and maintenance of the product as well as its service.

FAMED ŻYWIEC Sp. z o.o.

General notes

- *The use, maintenance as well as servicing of this product performed in other ways than those, which have been stated in this manual is forbidden and may result in damages, which will encumber the user and which will not be a matter of producer's responsibility.*
- *When the operation and parameters of the product do not match the description in item 'Operation' in this manual, the use of the product is not allowed and any defects have to be reported to the producer or the supplier.*
- *Every repair of the product must be done by a factory or an authorized service and recorded on the list of repairs, which is supplied with the guarantee certificate. Disregarding this requirement will cause the guarantee for the product to be invalid.*
- *Before starting any repairs the table must be disconnected from mains.*

Notes concerning safety

The sign shown below says: "Warning! - Follow the instructions for safe use".



A label showing this sign is placed on any parts or mechanisms, which may prove to be harmful to the patient or the personnel if their operation does not comply with the descriptions found in this Operating Manual.

- *The table should not be in the place which obstructs its disconnection from the mains!*
- *Operation table has been designed for a patient of no more than 200kg of weight.*
- *During conducting surgeries and other operations, the table's wheels should be blocked.*
- *When you replace the headrest with footrests (exchanging setup A to setup B), it is essential to make a change in orientation of the tabletop on the wired remote .*
- *Do not lay patient's torso on the footrest segment.*
- *During carrying out angle adjustments or lowering operation table's height, any obstacles must be removed from below the table's surface.*
- *Do not shift operation table's position with installed orthopedic attachment, proctology attachment, installed gynecological segment or installed shoulder operation attachment due to danger of capsizing the table.*

- **Lock operation table in given position before transporting a patient.**
- **When using the table close to medical equipment working on high frequencies and defibrillators one should closely follow operating instruction for that equipment. Improper operation may become a source of dangerous accidents. There is a danger of serious burning of the patient through the contact with metal parts of the table or its equipment.**
- **Throughout surgical procedures the table must be connected to the installation of potential equalization in the operations room.**
- **You must make sure, that accessories are properly fixed to the tabletop.**
- **When changing operation table's position you must avoid any collisions between the table and accessories.**
- **Not original accessories may be applied only after consulting with Famed Żywiec company about their use.**
- **Operation table's electrical conductivity must be checked once a year. The check should be carried out by trained service personnel.**
- **Avoid endangering patient's respiratory system, neural pathways and circulatory system by ensuring the patient is in proper position and by observing his/her condition.**
- **When the chosen position of the footrest is being locked, toothed bars shall mesh correctly.**
- **When performing longitudinal (Trendelenburg or reverse Trendelenburg) and lateral tilting, patient should be secured against uncontrolled sliding down from the operating table. Use shoulder supports, supporting rollers, side supports, belts and grips as securing elements.**

Notes concerning start-up, operation and use

- **The table, during use, should not be in the place which obstructs its disconnection from the mains!**
- **Longitudinal shift function should not be used with longitudinal tilt (Trendelenburg, anti-Trendelenburg) of more than $\pm 6^\circ$.**
- **When lowering the backrest when the longitudinal travel of the table is set up in the direction of the legs may occur collision between backrest and column.**
- **During execution of longitudinal tilt (Trendelenburg, anti-Trendelenburg) back rest should be in zero position or tilted above level position.**
- **When anti-trendelenburg function is performed, footrests may collide with the basis.**
- **Using force by an operator is required to change the angular position of backrest.**
- **Table should be roll in at least for 2 people.**
- **Do not roll the table with the load (patient) after the ramps.**
- **Trundle table is the minimum amount. Avoid collisions during table movement. The floor for moving the table must be free from obstacles.**
- **Do not roll the table over electric cables.**
- **The table has to be connected to mains in consistence with its name plate.**
- **Do not use the cable when it is damaged or its insulation is worn out.**
- **Do not connect the table to mains in places where there is a danger of an explosion.**
- **Do not store a table with flat batteries (a red diode is illuminated on a controlling device during any movement).**

- *When batteries need to be exchanged, do always exchange a set of two batteries, exchange of a single battery causes limitation to operating time of a table and quick wear of a new battery.*
- *Hand support should be fixed on table strip with a multi-position grip which makes angular movement of the support possible.*
- *If it is necessary to replace oil or a battery (dangerous waste), one should follow existing environmental protection regulations.*
- *Hand controller is obligatory accessories for surgical tables.*
- *Hand controller must be placed in coverage of stuff of serviceman, in order to use it in case of accident of wireless hand controller (it don't have to be connected all the time if the table include wireless hand controller or control panel).*

Notes concerning disinfecting

- *Before disinfection, power cable must be disconnected!*
- *The product must not be disinfected in disinfection chambers!*
- *Remote controls (both wired and wireless) must not be submerged in disinfectants. After disinfection, remote controls must be carefully dried in a way described in Washing and Disinfection Section.*
- *Corrosive bleaches (containing active chlorine or oxygen) must not be used.*
- *Agents containing alcohol must not be used on parts made of polyurethane (mattresses)!*
- *Elements made of plastic must not be treated with any agents that contain ingredients, which destroy their link structure (organic solvents)!*
- *During cleaning and disinfection of the operating table and floor of the operating / treatment room, the table should be unlocked (so that the feet do not come into contact with the floor).*
- *The disinfected and drained operating table should be locked on the disinfected and dry floor.*

Notes referring cleaning and disinfection

The product must be cleaned and disinfected in accordance with point 6.2 of this user manual.

Failure to comply with the above requirements concerning washing and disinfection will result in loss of product warranty!

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1 Proper use and application

1.1 Use

Operating table SU-03 is designed for supporting the patient during carrying out treatments and operations. The table together with the proper accessories can be used for treatments and operations in the range of general surgery, vascular surgery, cardio surgery, neurosurgery, urology, proctology, gynaecology, laryngology, ophthalmology, endoscopy, laparoscopy, traumatic, oncology, dental, plastic surgery and others. Table top segments are X-ray permeable.

1.2 General requirements

The product is intended to be used indoors. Required climatic conditions: temperature from +10 to +40°C, acceptable change of surrounding temperature during 8 hours should not exceed 20°C, relative humidity of the air should range from 30 to 80%, atmospheric pressure from 700 to 1060 hPa. The product should be used, maintained and serviced according to the instructions contained in this manual.



ATTENTION!

Using, maintaining and servicing the product in other way than indicated in this manual is not permitted and may lead to damages for which the user is to blame and for which the producer is not responsible.

Installation of other accessories than those offered by the producer for the product is allowed only on the basis of a written acceptance of the producer.

1.3 Duties of the user

User: any individual or corporate body who uses the product as its owner, lessee, pledge or who has a different right to the product as well as an entity who uses the product on its own or on whose behalf it is used.

The user must ensure that the product shall be used exclusively in conformity with its destination and that it is used in appropriate conditions and in consistence with this manual. The user is also obliged to take all necessary precautions in order to prevent all life and health hazards concerning the user, patients and any third party. Only authorised persons who underwent special training and are acquainted with this manual may operate the product. The user must also ensure that all persons who operate the product have read, understood and apply instructions contained in this manual.

1.4 Description of product

The operating table consist of table base and table top.

In standard version the table has a mobile base (standard or Supermobile – with large wheel), equipped with central blockade, which is released with a foot lever.

The table-top consists of segments, and their number and configuration is deliver according to a customer order. Segments of table top are X-ray permeable. The table top is provided with polyurethane mattresses. On both sides of the top there are side strips which allow installing accessories.

Change of the angle of table top segments as well as movement of the column are adjusted by mechanic, electric, electro-hydraulic and hydraulic systems. Optionally the table can be equipped with emergency alternative hydraulic drive which enables table steering while the main driving system is broken. In standard version the table can be controlled by wire-connected controller, optionally by wireless controller, foot controller, side control panel or remote control or foot operated panel.

Thanks to the wide range of offered accessories the table can be used for different types of operations according to client wish. List of accessories you can find in Paragraph 4 - *Installation and operation of accessories*.

In order to disconnect the table from the mains, unplug the power cord.

The producer reserves the right to introduce in the product structural modifications resulting from technical progress which are not covered in this user manual.

The producer reserve that all parameters and accessories can be modified or change, especially construction, technology and materials, not lowering accepted parameter technically - user and safeties of products.

1.5 Description of elements

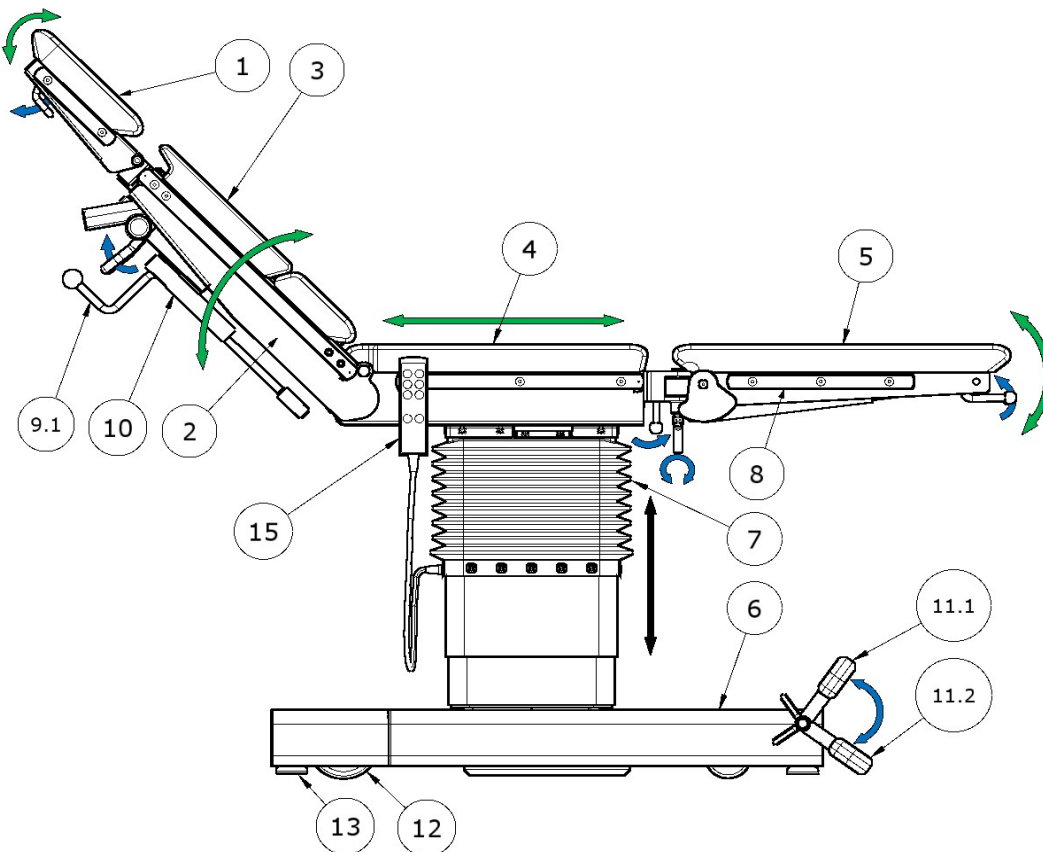


Fig 1.1 Operating table SU-03 with standard version

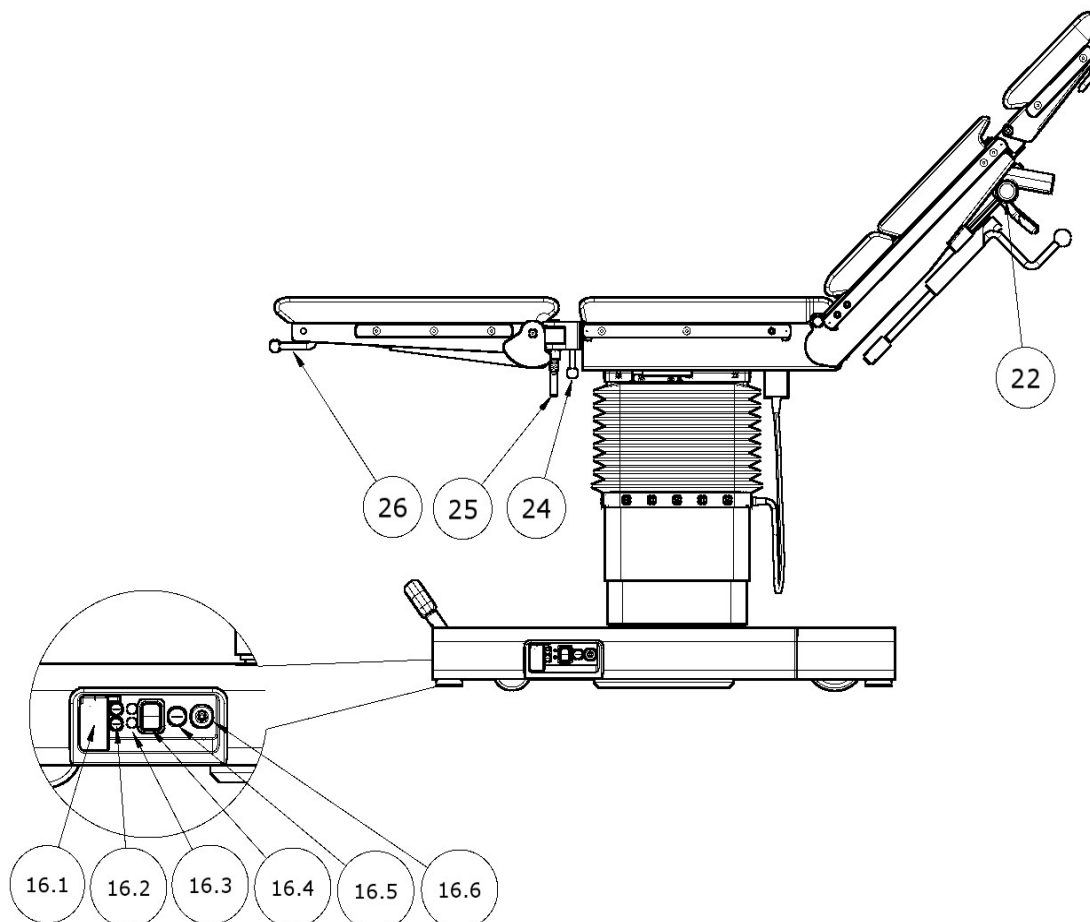


Fig. 1.2 Operation table SU-03 in standard version

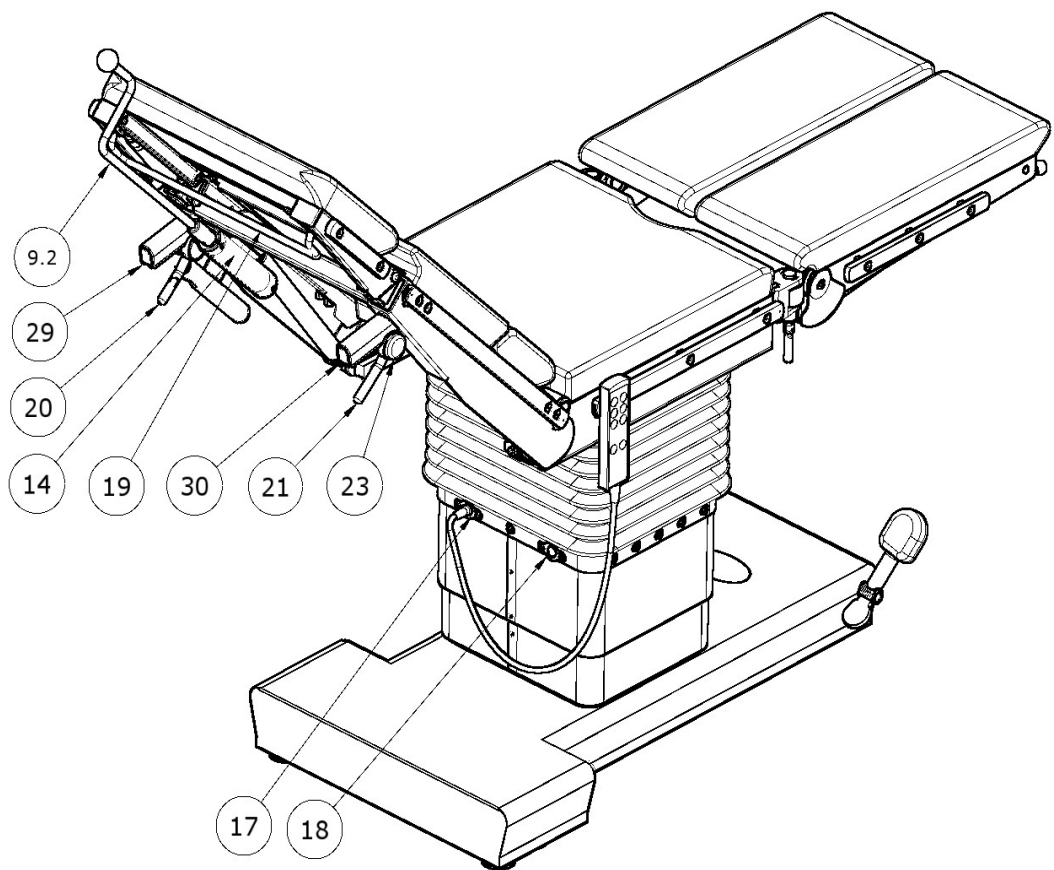


Fig. 1.3 Operation table SU-03 in standard version

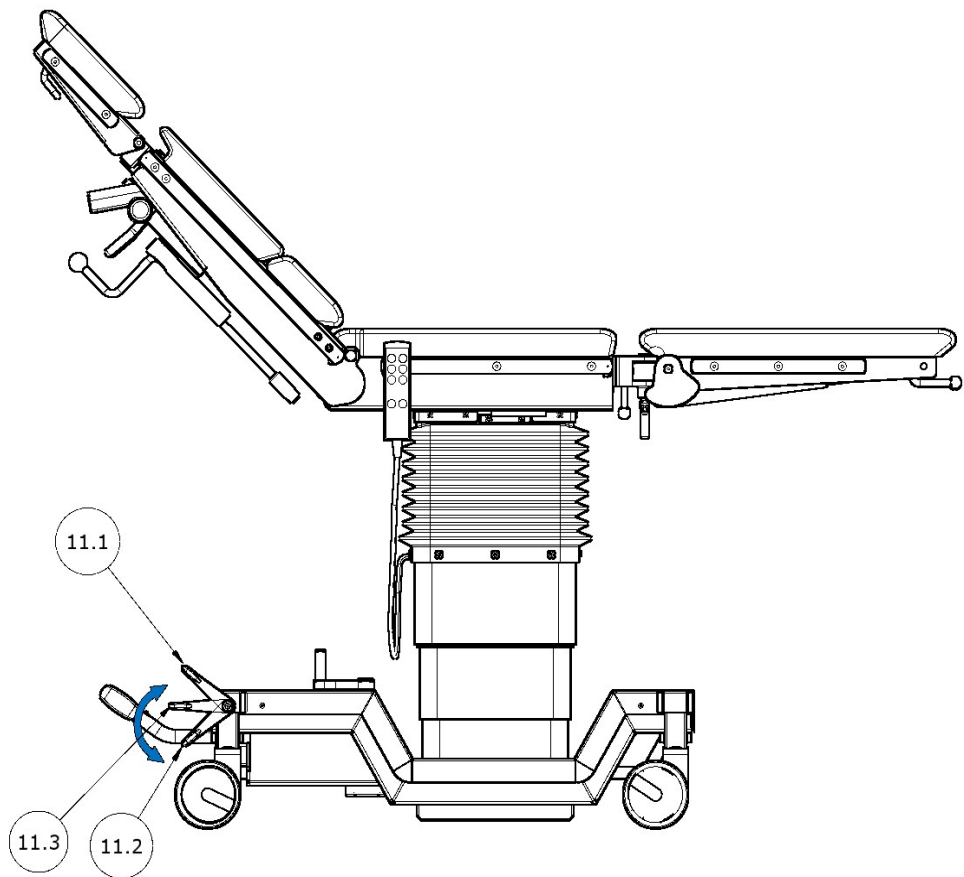


Fig. 2.1 Operation table SU-03 in super mobile version

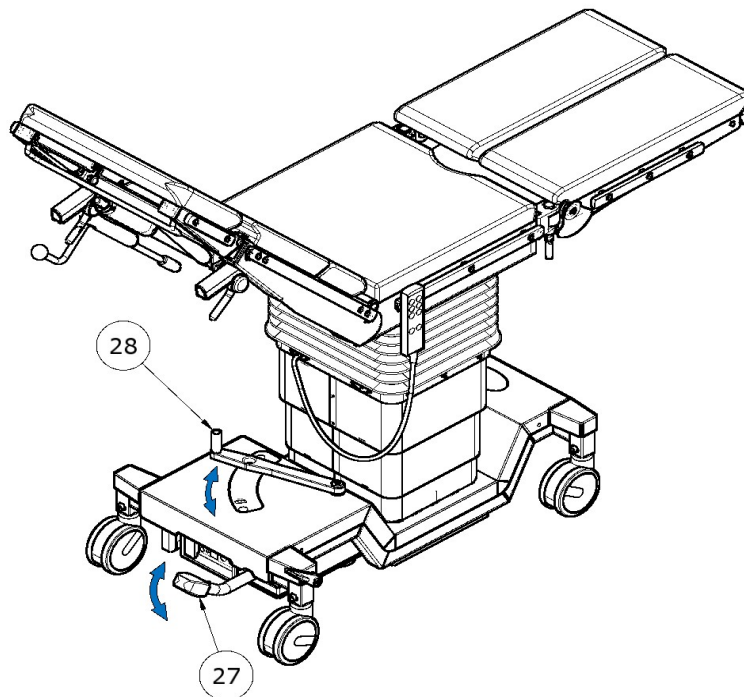


Fig. 2.2 Operation table SU-03 in super mobile version

item on drawin g 1-2	Description
1	Headrest
2	Backrest segment
3	Kidney bench
4	Seat segment
5	Footrest segment
6	Base
7	Column
8	Side strips
9	Kidney elavator adjustment crank (kidney support)
9.1	crank storage position
9.1	of the crank during kidney support adjustment
10	kidney elevator crank handle
11	Pedal of central wheel locking system/ locking feet ejection
11.1	wheels unlocked position/ locking feet elevated
11.2	wheels locked position/locking feet lowered
11.3	directional wheel movement lock
12	Wheels
13	Base locking feet
14	screw machanism of the kidney elevator (kidney support)
15	Cable remote
16	Attachment panel
16.1	Power socket
16.2	Fuses
16.3	LED indicators
16.4	Main switch
16.5	Internal power supply fuse
16.6	Equipotential clamp

17	Wired remote control socket
18	Infrared sensor
19	Lever of headrest segment angle adjustment
20	Lever of longitudinal table top shift adjustment
21	Lever of backrest segment angle adjustment
22	Blockade of the longitudinal table top shift adjustment lever
23	Blockade of the backrest segment angle adjustment lever
24	<i>Headrest wedge release button</i>
25	<i>Footrest spread angle locking lever</i>
26	Lever of leg rest support segment angle adjustment
27	Lever of alternative drive pump (option)
28	Lever of change of alternative drive function (option)
29	Left handle
30	Right handle

1.6 Technical Data

- total table top length (four and five segments) 2060 [mm]
- total table top length (six segments) 2160 [mm]
- Tabletop width 500 [mm]
- total table top width 550 [mm]
- minimum table height without mattress 680 [mm]
- maximum table height without mattress 1080 [mm]
- lifting angle of back-rest 85°
- lowering angle of back-rest 40°
- Raised kidney bench height 150 [mm]
- lifting angle of leg segment 30° (table top four- and five sectional)
- lifting angle of leg segment 45° (+45°) (table top six sectional)
- lowering angle of foot-support 90°
- spreading angle of foot-supports 180°
- angle of lateral tilt ± 30°
- head section lifting angle up 55°
- head section lifting angle down 50°
- table top longitudinal shift 340 [mm]
- Trendelenburg 40°
- Reverse Trendelenburg 40°
- table weight 250 [kg]
- Allowable dynamic load Variant „A“ 200 [kg]. Variant „B“ 135 [kg]
- Allowable static load Variant „A“ 350 [kg]. Variant „B“ 200 [kg]
- power supply 24 [V]
- battery charging time < 12 [h]
- working time without recharging batteries about 80 cycles
- battery charger built-in
- battery charger power supply 220/230 [V]~50/60 [Hz] (110[V]~, 127[V]~ option)
- electric power
 - standard version 350 [VA]
 - Supermobil version 350 [VA]
 - Alternative drive version 350 [VA]
- class of protection before electric paralysis I
- type of the part application B
- degree of protection before influence of environment IP-X4
- Duty intermittent (2 min of duty/ 18 min of interruption)
- usage time 10 years

*** Two-section headrest parameters:

- headrest uplift angle 50°

- headrest lowering angle $50^{\circ} \pm 3^{\circ}$
- section II uplift angle $0^{\circ} - 70^{\circ} \pm 3^{\circ}$

For the special client request it is possible to produce the product with change parameters, not lowering its safety

1.7 Use parameters

The drawing below presents the main use parameters of the table.

Table functions operated by the remote control

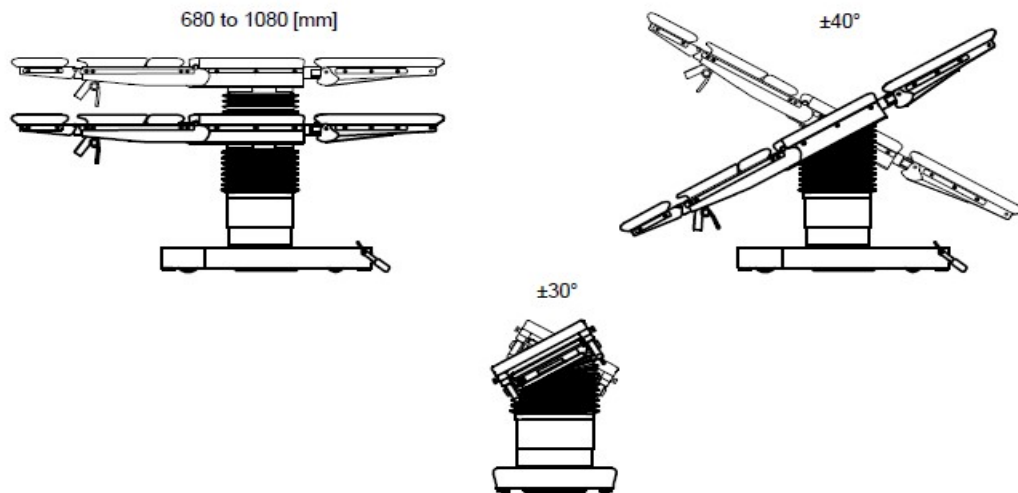


Table functions operated manually

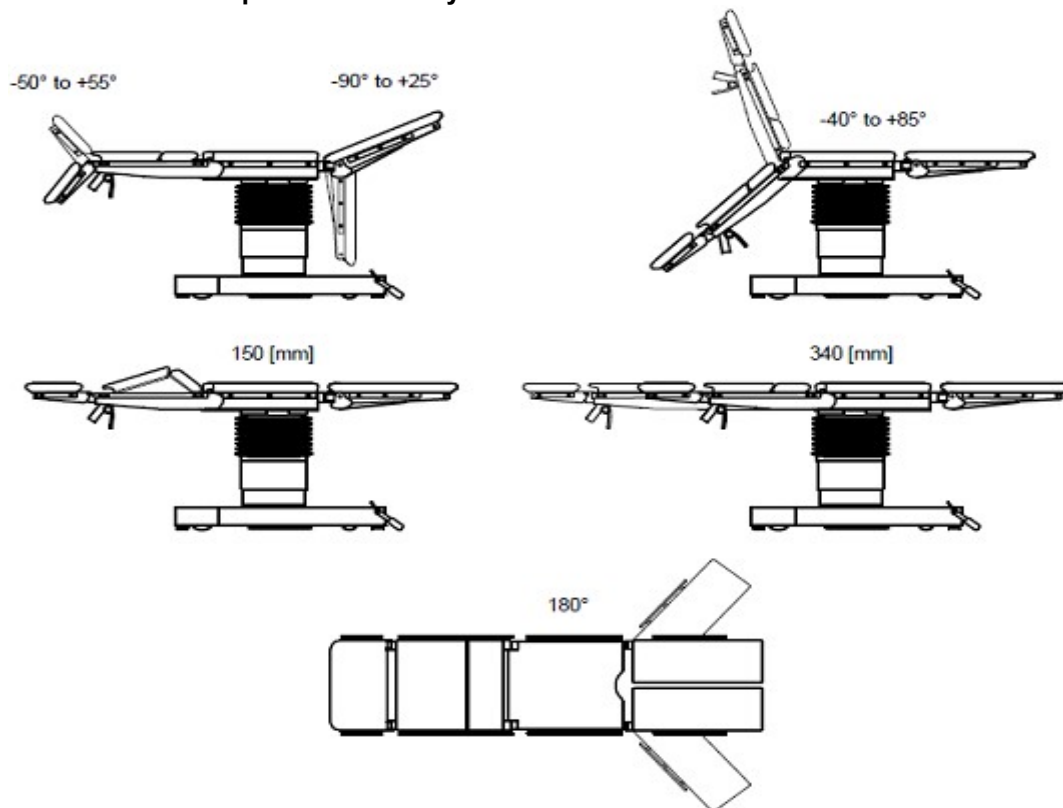


Fig.3 Use parameters

1.8 Safety

The structure of the table assures its safe operation and use if the rules provided in this manual are followed.

The sign shown below says: "Warning! - Follow the instructions for safe use".



A label showing this sign is placed on any parts or mechanisms, which may prove to be harmful to the patient or the personnel if their operation does not comply with the descriptions found in this Operating Manual.

When operating the table one should pay attention to elements and mechanisms with this label.

- Throughout surgical procedures table wheels should be blocked.
- When using the table close to medical equipment working on high frequencies and defibrillators one should closely follow operating instruction for that equipment. Improper operation may become a source of dangerous accidents. There is a danger of serious burning of the patient through the contact with metal parts of the table or its equipment.
- Throughout surgical procedures the table must be connected to the installation of potential equalization in the operations room.
- When the table is loaded with weight bigger than 135 kg is possible to do only functions which are supported with electro-hydraulic systems. But the special attention have to be paid.
- When locking a set position of the footrest, pay attention that the toothed bars are correctly meshed.
- When performing longitudinal (Trendelenburg or reverse Trendelenburg) and lateral tilting, patient should be secured against uncontrolled sliding down from the operating table. Use shoulder supports, supporting rollers, side supports, belts and grips as securing elements.

1.9 Critical parameters (fig.4)

Maximum allowed load for individual segments 200 kg – Setup A:

-head rest	16 kg
-back rest segment	76 kg
-seat segment	68 kg
- foot rest (simple)	20 kg
- foots rests (both load at the same time)	40 kg

Maximum allowed load for individual segments 135 kg – Setup B:

-head rest	10 kg
-back rest segment	60 kg
-seat segment	50 kg
- foot rest (simple)	7.5kg
- foots rests (both load at the same time)	15 kg

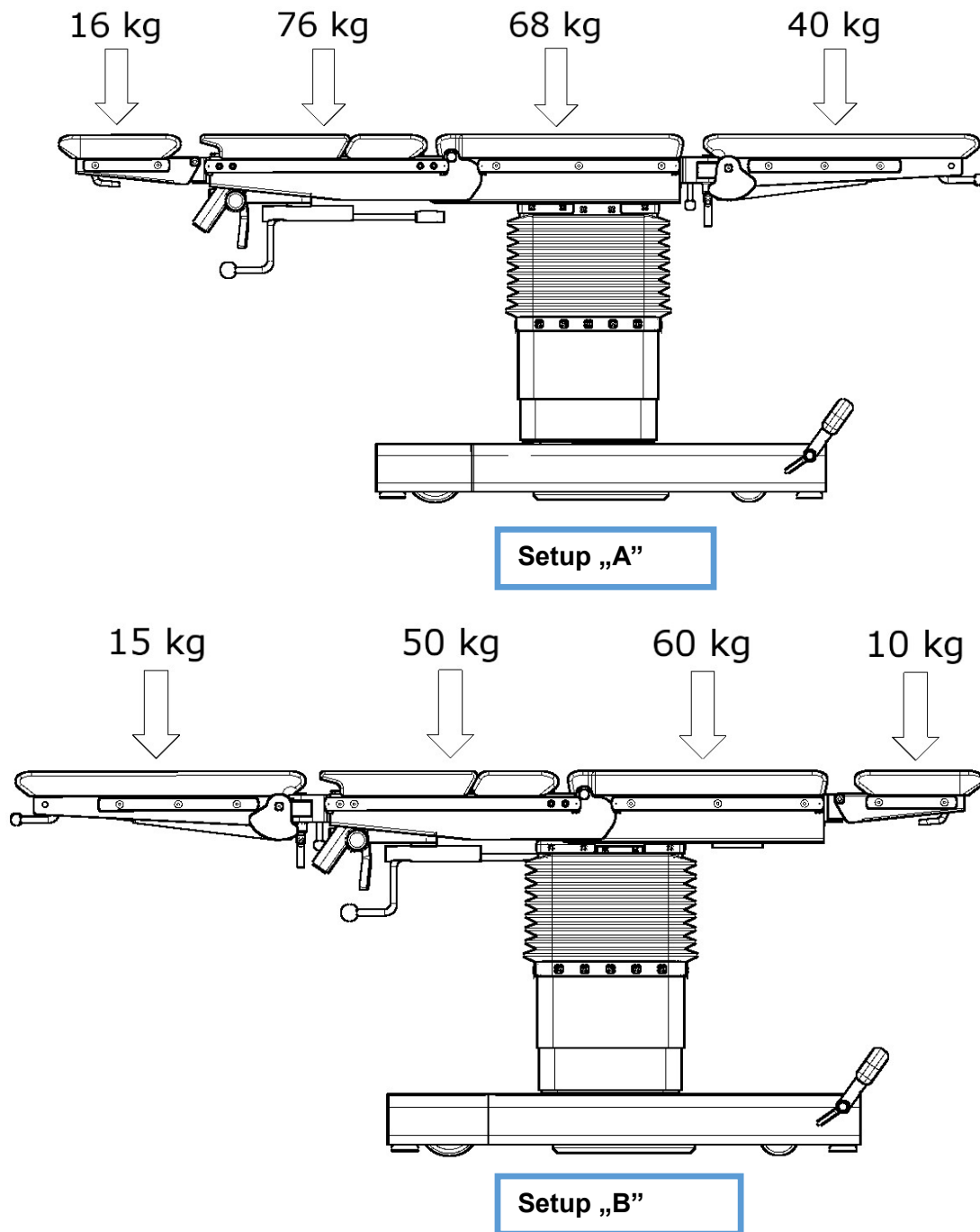


Fig. 4 Critical parameters

1.10 Electromagnetic compatibility

Medical device **the table SU-03** is an electric appliance. Electric appliances are a source of electromagnetic radiation and themselves are under its influence. Therefore, use of an electric appliance requires some safety precautions connected with electromagnetic compatibility.

In tables: item 7 Characteristics of electromagnetic environment – electromagnetic environment in which medical device **the table SU-03** should be used. Recommendations and warnings which should be followed by the users were also presented.

**ATTENTION!**

Use of different accessories, additional equipment, cables, spare parts than those offered and/ or recommended by the producer may cause an increase of emission and/ or decrease of bed's resistance to all electromagnetic phenomena.

Recommended distances between portable radio-transmitters and the product

Rated maximum output power of transmitter W	150 kHz to 80 MHz $d = 1,2\sqrt{P}$ distance in meters	150 kHz to 800 MHz $d = 1,2\sqrt{P}$ distance in meters	800 MHz to 2.5 GHz $d = 2,3\sqrt{P}$ distance in meters
0.01	0.1	0.1	0.2
0.1	0.4	0.4	0.7
1	1.2	1.2	2.3
10	4	4	7
100	12	12	23

For transmitters, the maximum output power of which is not specified above, the separation distance should be calculated according to the formulas provided. P is a power in watts (W) according to the declaration of the transmitter manufacturer.

NOTE The above guidelines may not be applicable to all cases. Propagated electromagnetic waves are absorbed and reflected from buildings, objects and people.

2 Transport and first use

2.1 Transport

There is a possibility to transport the product by any covered transport means.

The transport conditions are as follows:

- temperature: from -10°C to 60°C ,
- relative humidity: from 20% to 80%.

Operating table must be set in transportation position during carrying table by locomotion means without using table movable system (truck, trolley). Table base and tabletop should be transported in separate package. Transportation position means that table base is on minimum height and tabletop in horizontal position with leg segments and head rest. Transportation position is shown on the label situated on table base and table top. Product should be secured against humidity and stable. In case of lack of original packaging, the product should be properly secured in order to prevent its damage, preferably by experienced transport company.

While product transporting, storage and unpacking, the temperature gradient should be less than 10°C per hour. It is strongly recommended to unpack the product after reaching room temperature.

After transporting a product into a building where it is to be installed, a product should be left for at least 12 hours. Only after this time you can set a product in operation.

Laminar storage is permissible in accordance with the packaging marking. In the absence of the marking, storied storage is prohibited.

In case of the specific transport conditions (particularly: low temperature transport), it is necessary to negotiate the way of transport and product packaging with the product manufacturer in order to ensure safe transport.

A label which indicates product position during transport

A label for the Polish and for foreign countries.

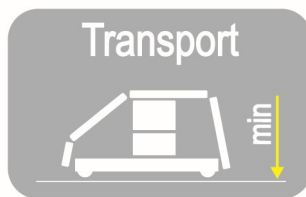


Fig. 5 Label "Transport position"

2.2 Unpacking and first use



If the product is installed by an service of FAMED ŻYWIEC Spółka z o.o., the user is released from the obligation to perform the activities described in this item.

ATTENTION!

The table is shipped by the producer in an assembled form in a wooden, open-work chest or in a cardboard box with the following dimensions L:1340 x W:700 x H:890 mm and weight 250 kg. The table should be unpacked indoors in order to be protected from damages.

To prepare the table for operation after its transport or delivery one should:

- read product operating manual carefully,
- take off the fastening tapes,
- remove the package,
- remove the materials protecting the table during its transportation,



ATTENTION!

Proceeding with the package waste should comply with the law requirements from the area of environment protection obligatory in place of introducing the product in package.

Package waste is recyclable and should be properly segregated and deliver according to local law requirements to the disposal point of waste separately collected.

Returnable packaging should be returned to the producer of the medical product.

Package may be marked with following signs:



- multiuse package



- package for recycling



low-density polyethylene packaging

LDPE

- take out equipment,
- remove elements which block the table base,
- place the footrests horizontally (*items 3.10 Change of angular position of the footrests and 3.11 Change of angular position of separated footrests*),
- release the central blockade (*item 3.15 Table mobility*),
- With a help of another person carefully take the table from the palette and stop it,
- add the headrest (*item 3.12 Installation and operation of the headrest*),
- connect the wire controller to the socket on the table column,
- place the product in its destination which meets the requirements described in this manual (*item 1.2 General requirements*),
- Connect to the electric mains by connecting of the wire to the socket and charge the batteries,

- on the basis of information given in item 3 *Operation* check whether the table works as described in item 5 *Criteria on whose basis it is assessed whether product operation is correct or not.*



ATTENTION!

If the product is not fully functional, i.e. the output parameters differ from the description contained in this manual, the bed must not be used. This situation should be reported to the producer or supplier. The use of an improperly functioning product may result in damages, which will encumber the user and which will not be a matter of producer's responsibility.

3 Operation and use

3.1 Controlling elements

3.1.1 Wired Remote Control

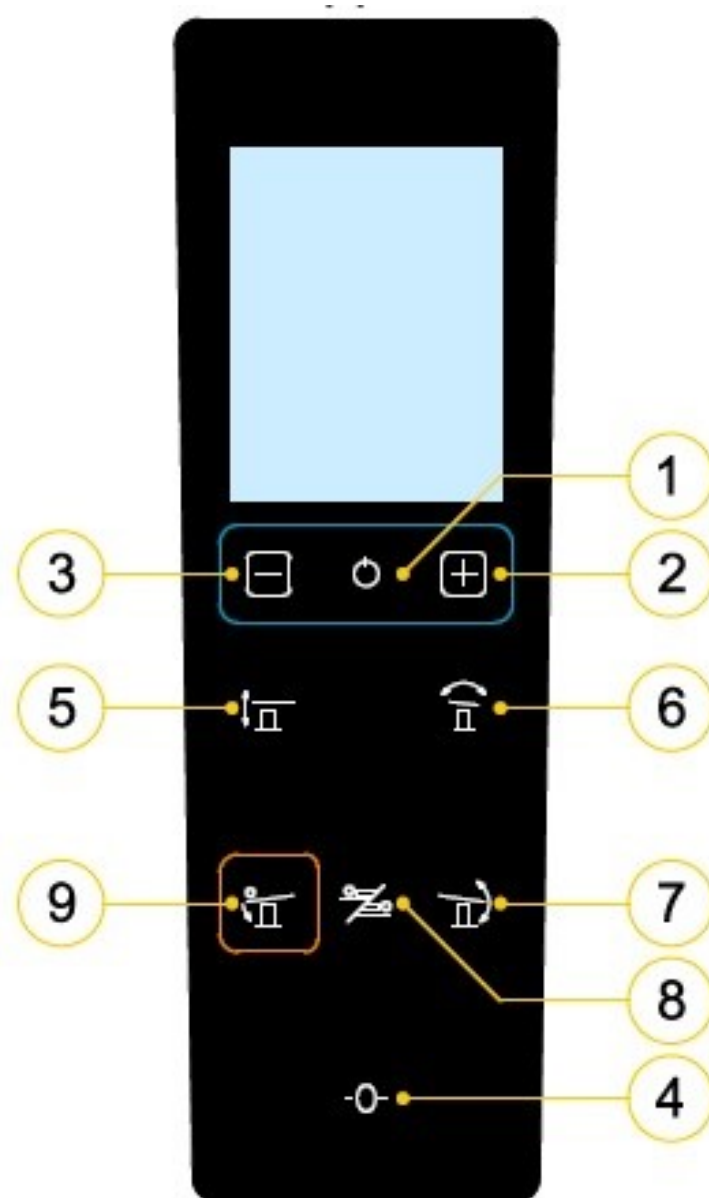


Fig. 6 Wired controller

- 1 "ON" button
- 2,3 Action button
- 4 "0" position
- 5 Table height adjustment
- 6 Lateral tilt
- 7 Longitudinal tilt
- 8 Adjustment of table top orientation
- 9 Trendelenburg tilt

To turn on the table, shortly press "ON" [1] on the controller. The table activation will be confirmed on LCD. Press and hold a function control button to actuate the respective motion. The motion continues until an action button [2] is pressed or until the button is released [3]. The button "-0-" [4] is for levelling the segments of the table. The LCD shows information about the function being performed, battery status, table position, errors and faults.

The table automatically goes into standby in ten-odd seconds after the last button was pressed. To reactivate the table, press [1] again.



ATTENTION!

Wired remote control is the mandatory accessory for operation tables.

Wired remote control must be within the reach of staff members, to be used in case of wireless remote control malfunction (though it doesn't have to be connected permanently if the table is fitted with wireless remote control or control panel).

3.1.2 Wireless remote control (optional)

The wireless remote controller enables controlling the operating table functions via Bluetooth.

The layout and view of the remote control buttons is identical to the wired remote version. The wireless remote control is operated in the same way, except for the following:

- The battery level icon on the display refers to the remote controller's batteries.

The wireless remote control includes a battery charging station, which keeps the batteries charged. When the remote control is not in use, keep it stowed in the battery charger, which is connected to electrical mains.

The table automatically goes into standby in ten-odd seconds after the last button was pressed. To reactivate the table, press [1] again.



ATTENTION!

When using the wireless remote control, verify the battery power by operating the wired remote control.

When the remote control is not in use, keep it stowed in the battery charging station.

3.1.3 Side control panel (optional)

The surgery table can optionally be equipped with a side panel, located on the table column, enabling control of the functions of the surgery table.

The side panel has a two-step activation. The first pressing of the "ON" button [1] on the panel activates the table, which is confirmed by the backlight of the [1] button in green.

To activate the panel, press the "ON" button again [1], the backlight [1] will change color to blue and the panel will backlight the function buttons.

When the panel is active, we can choose the functions of the table.

Functions: Position "0" [4], Trendelenburg position [9] works immediately after pressing the button until the moment of release or end of the sequence by the table. For other functions, the backlight of the selected button flashes and the action buttons [2] or [3] backlight. The movement is carried out as long as the action button is pressed.

The button "-0-" [4] is used for leveling the table segments.
The icon's backlight color [10] indicates the battery level of the table.

The [8] button is used to change the table orientation. To do this, hold down the [8] button until the table reacts with an audible signal. When you change the orientation from A to B, the backlight of the function buttons will also change from white to yellow. After changing from B to A, the backlight returns to white.

The panel automatically deactivates after a few seconds from the last pressing of any button on the panel. Then the table goes to the stand-by mode. To reactivate the table, press the [1] button.

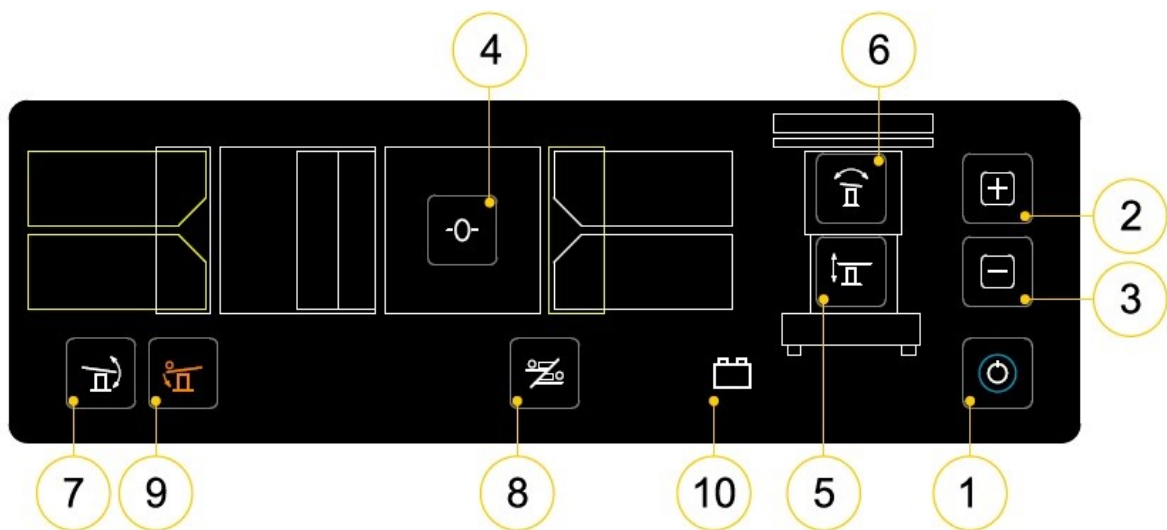


Fig. 7 Side control panel

- 1 "ON" button
- 2,3 Action button
- 4 "0" position
- 5 Changing the table height
- 6 Side inclinations
- 7 Longitudinal shift
- 8 Change the orientation of the top
- 9 Trendelenburg tilt
- 10 The state of charge of the table battery
 - green icon: charged battery
 - yellow icon: battery discharged about half
 - red icon: battery discharged

3.1.4 Alternative drive (option)

- 1,2 Height adjusting
- 3,4 Side inclination
- 5,6 Trendelenburg and revers Trendelenburg tilt
- 7 Zero position of the function selection lever
- 8 LED diodes indicating condition of alternative drive batteries
- 9 LED diode indicating charging of alternative drive batteries

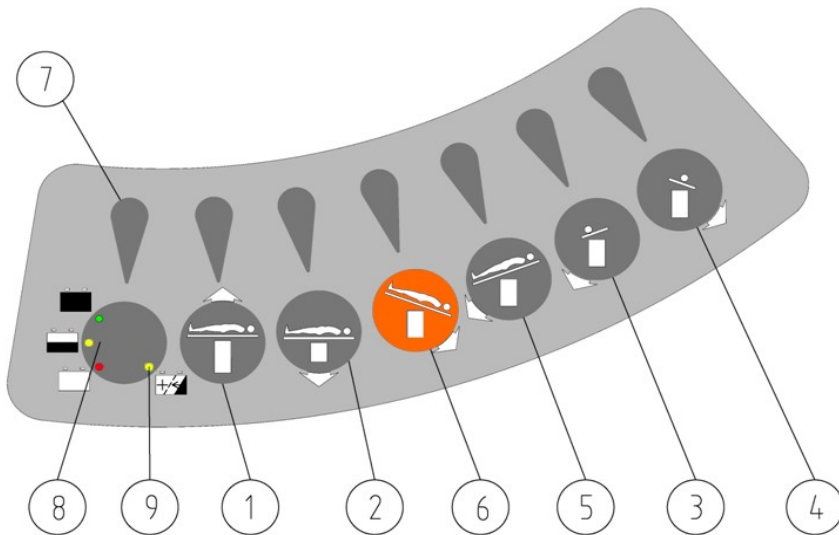


Fig. 8 alternative drive panel

The alternative drive is second (next to electrohydraulic drive) table drive. What is more both of drives are working independently. In order to change of table top height, angular table top position (longitudinal and side inclination) and adjustment of backrest segment should by means of foot adjust the lever of alternative drive selection functions (fig. 2.2, pos.28) in position [1] - [6] that is equal to required function, and next press on the pump foot lever (fig.2.2, pos.27) until receiving the required table top position).

The movement of table top take place during pressing the pump lever only .in this time and 5 sec after finishing of pumping, when the lever of selection functions is in other function than parking position [11] the controlling of table top functions by means of controller (wire- controller and remote controller) or side panel are not possible. After receiving the required table top position the lever of alternative drive selection functions should set in parking position [7].

The alternative drive system is equipped with diode rate of charging and alternative drive battery charging condition. Batteries are full charged when the green diode has shined. Shining of yellow diode mean that the batteries are partly discharged and it recommended to battery charging. When the red diode has shined- the battery is entirely discharged, do not use the alternative drive and definitely battery charging. The interrupted sound signal is accompanying to red diode shining. The table is equipped with buffer charger that enables the concurrent battery charging and using of table. Alternative drive discharged batteries has not any influence for using of table by means of wire-controller or side panel. The additional yellow diode [13] is signaling the battery charging. The battery charging has happen automatically after switching the table to electric network.



ATTENTION!

In order to prolog the battery life time one should charged it properly often (when yellow and red diode have shined).

When the alternative drive is not using one should definitely set the lever of selection functions (fig.2.2, pos.28) in parking position [7].

In order to using of alternative drive should not hold up the pressed foot pump lever. After finishing the dumping one should lower the foot pump lever.

When the alternative drive is not using, in order to avoid undesirable changing of table top position as the result of accidental pressing the foot pump lever, the rate of drive should move in extreme position that is marked with empty field.

3.2 Raising and leveling of table top

You can change the table top height within the range specified in the technical specification by pressing button [5] on the wired controller (also on the remote controller or a button on the side panel) and then by pressing action button [2] or [3] depending on the desired position. The movement continues until the button [2] or [3] is released. The table stops automatically after reaching limit position.



If the load of the table is more than 135kg you have to pay a special attention when doing this function.

ATTENTION!

3.3 Changing the longitudinal tilt of the table

You can change the longitudinal tilt of the table (select between Trendelenburg and anti-Trendelenburg positions) within the range specified in the technical specification by pressing button [7] on the wired controller (also on the remote controller or a button on the side panel) and then by pressing action button [2] or [3], depending on the desired position. The movement continues until the button [2] or [3] is released. The table stops automatically after reaching limit position.

Trendelenburg tilt function can be also activated by pressing and holding button [9]; you don't need to press the action buttons [2] or [3] then. The movement continues until the button is released.



ATTENTION!

If table's load is higher than 135 kg, this function should be executed with extra caution.

When executing Trendelenburg and Anti-Trendelenburg as well as lateral tilt function, patient should be secured against accidental slipping off the operational table. As security components, shoulder rests, semi-bolsters, side rests, straps and grips handle should be used.

When performing Trendelenburg, backrest should be in zero position or protruded above level position in order to avoid collision!

3.4 Table top side inclination

You can change the table's tilt angle within the range specified in the technical specification by pressing button [6] on the wired controller (also on the remote controller or a button on the side panel) and then by pressing action button [2] or [3], depending on the desired position. The movement continues until the button [2] or [3] is released. The table stops automatically after reaching limit position.



ATTENTION!

If the load of the table is more than 135kg you have to pay a special attention when doing this function.

When performing longitudinal and side tilting functions, patient should be secured against uncontrolled sliding down from the operating table. Use shoulder supports, supporting rollers, side supports, belts and grips as securing elements.

3.5 Zero position of table top

To set the "zero" position of the table (i.e. zero Trendelenburg angles and side tilt) press button [4] on the wired controller (also on the remote controller or side panel). Press and hold the button until reaching the zero position, i.e. until stopping the table movement. If you release the button before reaching the zero position, the table stops immediately.



ATTENTION!

If the load of the table is more than 135kg you have to pay a special attention when doing this function.

In case when achieved zero position is not horizontal, one should calibrate the inclination sensor of the table.

3.6 Table top longitudinal shift

In order to change the position of the table top, stand behind the back rest, grab with both hands the handles (pos. 29 and 30 in Figure 1.3), then using the side of the index finger of the left hand press the blockade button (Fig. 1.2, pos. 22) and pull the lever (Fig. 1.3, pos. 20) next place the table top in the desired position, within the range specified in the technical data, and release the lever. After releasing the lever the blocking mechanism is automatically locked and further adjustment is impossible/inaccessible. **Remember that during the repositioning of the table top, you must hold the top with both hands using handles (Fig. 1.3, pos. 29 and 30).** In addition, after releasing the lever the blockade should be automatically locked (Fig. 1.2, pos. 22) by pulling the lever again make

sure the mechanism works properly – pulling the lever shouldn't be possible without releasing the blockade.

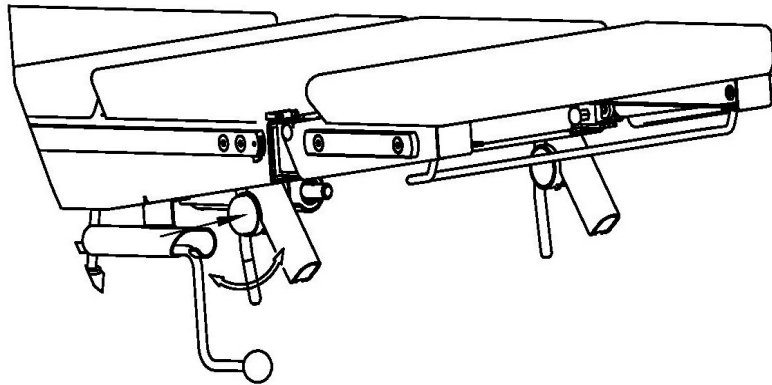


Fig. 9 Longitudinal shift control



ATTENTION!

It is not allowed to do that function when load of the table is more than 200kg. While effecting movements you should pay careful attention to risk of collision between table segments and surface or a table base!

3.7 Change of angular position of the backrest segment

Angular position change of the back rest segment (*drawing 1.1, position 2*) is performed by muscle force with the support of gas springs. In order to obtain the required position of the table top one should stand behind the back rest, put both hands on the handles (*drawing 1.3, pos.29 and 30*) then using an index finger side of right hand, press the blockade (*drawing 1.3, pos. 23*) and pull the lever (*drawing 1.3, position 21*) and set the back rest in the required position and release the lever. After releasing the lever, angle change mechanism of the back rest segment, is automatically blocked and further movement is impossible. It is important to remember to hold the back rest segment handles with both hands during the back rest segment change (*drawing 1.3, pos.29 and 30*). Additionally, after releasing the lever an automatic return of its blockade should follow (*drawing 1.3, pos.23*). One should make sure of this fact using another trial of pulling the lever. Without the blockade releasing, pulling the lever should be impossible for execution.

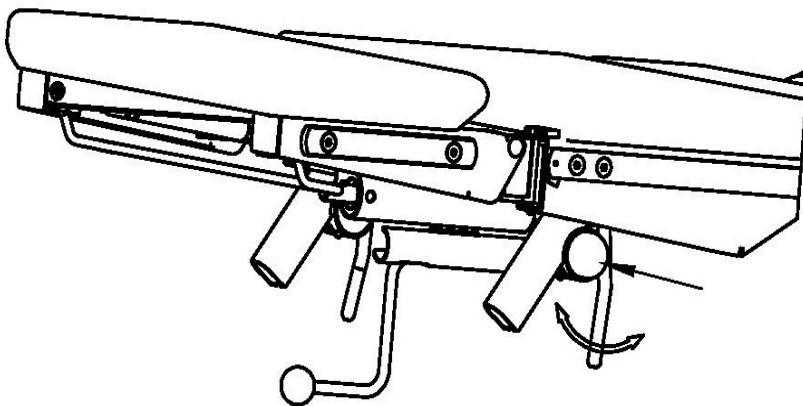


Fig. 10 Seat-section angle adjustment



ATTENTION!

If a patient is very heavy, over 90 kg, the angle of backrest segment should be changed with particular care; one should be prepared that it would be necessary to use considerable force to move it up and to cushion lowering at the moment of lever release (*drawing 1.3, item 21*).

Ensure that not-launched blockade of the back rest segment lever prevents it from pulling!

3.8 Change of angular position of kidney bench

Adjusting angle position of a kidney elevator (fig.1.1, item 3) is effected by means of a crank (fig.1.1, item 9.1), located in a sleeve (fig. 1.1, item 10) on the left side of a table top. To adjust position of a kidney elevator, put a crank (fig. 1.3, item 9.2) on an elevator mechanism's bolt. (fig. 1.3, item 14). Next, by turning a crank left or right, bring the elevator to a desired position. If a crank is not used, it should be stored in a sleeve (fig. 1.1, item 10) located on the left side of a table top.



ATTENTION!

It is not allowed to do that function when load of the table is more than 200kg.

3.9 Footrest installation and disassembly

A mechanism triggered by a push button (fig. 1.2, pos. 24) allows footrests (fig. 1.1, pos. 5) to be put on and taken off the seat. In order to take off the footrest, hold it from below and, with the button pushed in, lift it up until it is taken off the wedge spigot in the seat (fig. 1.1, pos. 4). The footrest is mounted by putting its wedge socket on the wedge spigot in the seat. In order to do that the button does not have to be pushed – the footrest will place itself in the correct position and lock itself on the spigot.

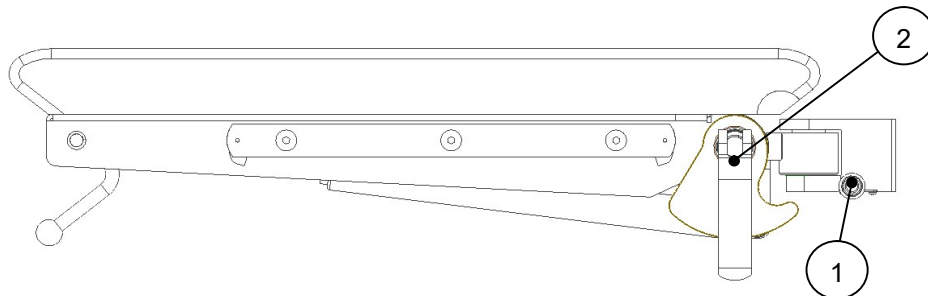


Fig. 11 Operating Table Footrest (1- Button, 2- Footrest Movement Lever)



ATTENTION!

Make sure that the footrest is installed correctly by trying to take it off when locked. A properly locked footrest cannot be removed from the seat.

While performing surgeries in the Anti-Trendelenburg or Trendelenburg position the footrest may collide with the base.

Make sure that the lever is set in the correct position.

3.10 Footrest Angular Position Adjustment

Angular position of the footrest is changed within the range defined in technical data by simultaneous levering of the lever (drawing 1 and 2, item 26) and raising or lowering of the footrest segment to the required level. When the pressure is removed from the lever, the mechanism is locked and the position of the footrest determined



ATTENTION!

When executing Anti-Trendelenburg there is a risk of collision between the footrest, that is lowered much below the horizontal level, and the table's base!

3.11 Changing the footrest rotary position

To change the spread angle of the footrest within the range specified in the parameters above, release – lift up – the lever (fig. 11, pos. 2). After having rotated the footrest to the desired angle (within the

range specified in the parameters), push the lever down towards the footrest frame until it reaches its lowest position (fig. 12).

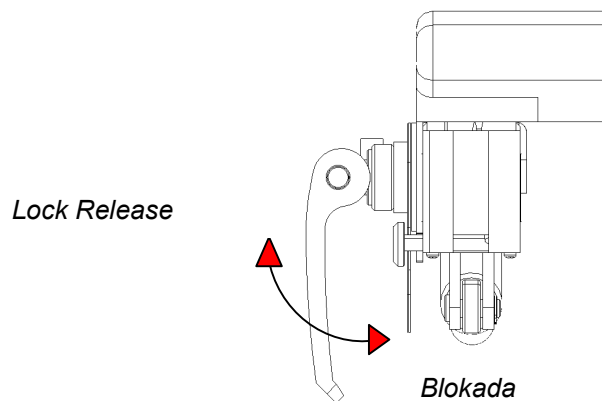


Fig. 12 Changing the footrest angular position



ATTENTION!

The handles must be properly locked to ensure that the footrest will not move!

In case of loosening of the handle clamp, adjust the clamping force using the handle nut – it will secure the lock (fig. 11, pos. 2).

Use caution when adjusting the spread angle of the footrests.

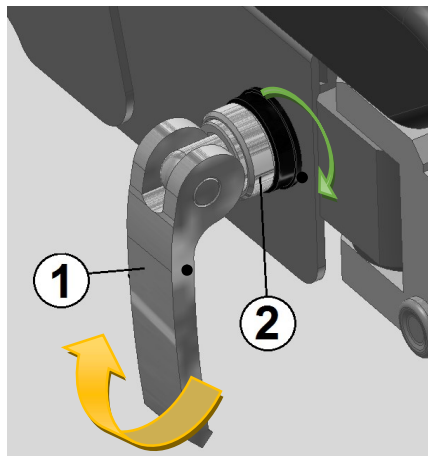


Fig. 13 Adjusting the clamping force of the handle

Using the footrest may result in loosening of the clamping lever that blocks the sideways movement of the footrest. Such loosening means that the footrest locking mechanism is not secure and poses potential danger when the operating table is in use. If a situation like this occurs, adjust the clamping force of the handle by following these steps: release the movement locking mechanism by lifting up the lever (fig. 13, pos. 1), set the clamping force by rotating the handle nut (fig. 13, pos. 2) and lock the handle by pushing its lever down towards the frame. The clamping force is set correctly when it is impossible to move the footrest with the handle closed.

3.12 Installing and changing the angular and rotary position of the divided footrests

A mechanism triggered by a push button (fig. 14, pos. 1) allows the divided footrests (fig. 14) to be put on and taken off the seat. In order to take off the footrest, hold it from below and, with the button pushed in, lift it up until it is taken off the wedge spigot in the seat (fig. 1.1, pos. 4). The footrest is mounted by placing the its wedge socket on the wedge spigot in the seat. In order to do that the button

does not have to be pushed – the footrest will place itself in the correct position and lock itself on the spigot.

In order to change angular and rotational deflexion of the short part (fig. 14, item 3) or the long part (fig. 14, item 5) of the divided footrest, grab the footrest segment from the bottom with one hand and push the blockade with the thumb of the other hand (fig. 14, item 6). Pushing the blockade enables opening the handle (fig. 14, item 2 or 4). Once the handle is open, place the selected footrest segment in desired position in relation to the two rotation axes and lock it with by closing the handle. After closing the handle lock should return to its initial position, preventing repeated opening of the handle.

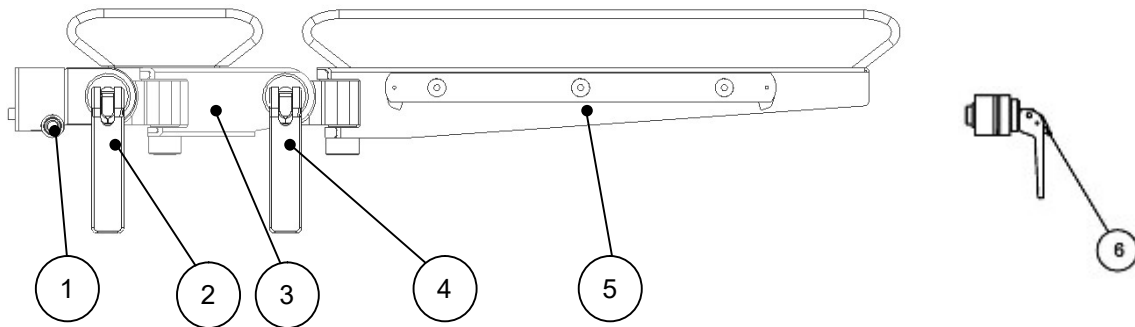


Fig. 14 Handling of the divided footrest



ATTENTION!

After establishing footrest position and closing the handle make sure that handle locks returned to initial position. Check it by trying to open the handles; it should be impossible.

It is prohibited to change position of footrests with the position of headrest in the case of divided footrests - configuration « B ».

3.13 Installing and operating the footrest plate

The footrest plate (fig. 15) is installed on the wedges found at the end of the seat. To install the footrest, put the footrest wedge socket on the wedge spigot in the seat. In order to do that the button does not have to be pushed (fig. 15, pos. 1) – the footrest will place itself in the correct position and lock itself on the spigot. It is advised to ask someone for help when disassembling the footrest. To take off the footrest, simultaneously push the two buttons on its sides and, with the buttons still pushed in, lift it up until it is taken off the wedge spigot in the seat. To change the angular position of the footrest, push the lever (fig. 15, pos. 2) triggering the gas spring mechanism. Releasing the lever locks the footrest in the set position.

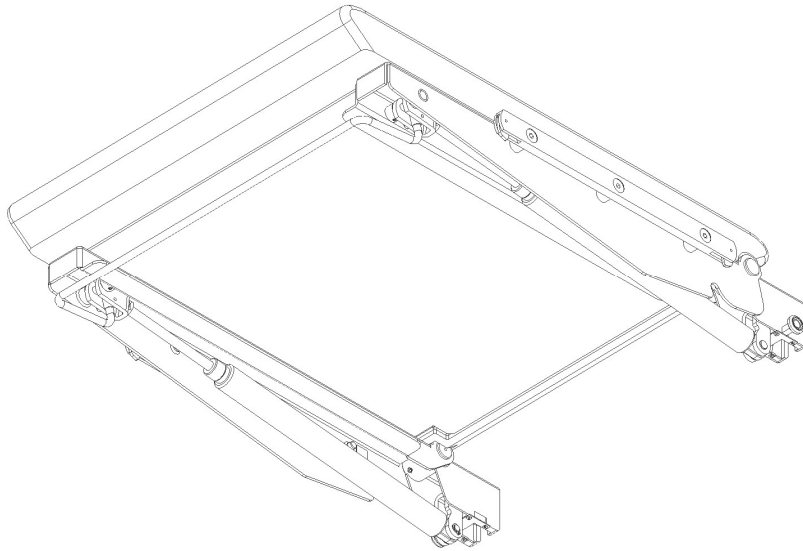


Fig. 15 Footrest plate



ATTENTION!

Make sure that the footrest is installed correctly by trying to take it off when locked. A properly locked footrest cannot be removed from the seat.

3.14 Installing and operating the headrest

The headrest (fig. 1.1, pos. 1) is installed on the headrest mounting wedges found at the end of the backrest with two push buttons on the sides of the headrest (fig. 16, pos. 1). To install the headrest, put its wedge sockets on the backrest wedge spigots until they lock themselves. To disassemble the headrest, simultaneously push the two buttons on its sides and take it off the wedge spigot in the backrest. To change the angular position of the footrest, push the lever (fig. 16, pos. 2) triggering the gas spring mechanism. Releasing the lever locks the headrest in the set position.

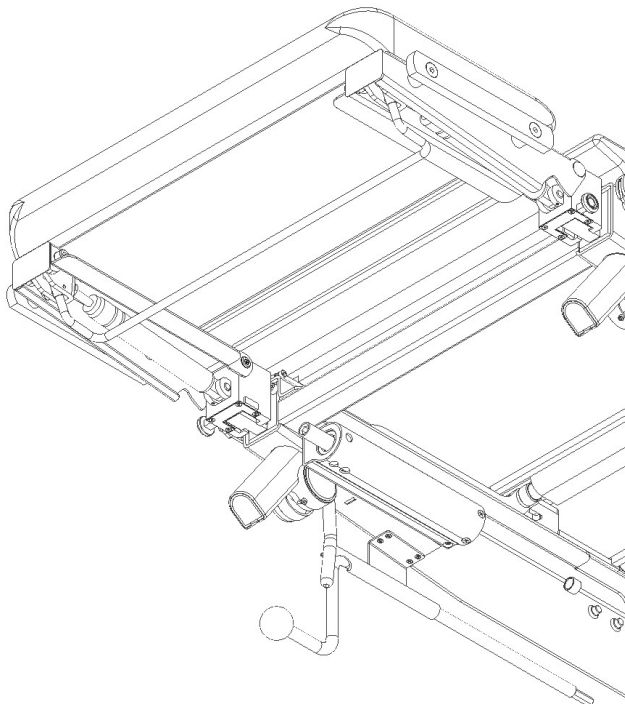


Fig. 16 Headrest

**ATTENTION!**

Make sure that the footrest is installed correctly by trying to take it off when locked.

Use caution when changing the angular position of the headrest.

3.15 Installing and operating the two-section headrest

The headrest (fig. 17) is installed on the headrest mounting wedges found at the end of the backrest with two locking mechanisms on the internal sides of headrest (fig. 17, pos. 2). Before mounting the headrest on the backrest, take out both headrest locking mechanisms and rotate them to an angle of approximately 90°. After having done so, place the headrest wedge socket on the backrest wedge spigot, set their position by turning the locking mechanisms until they lock themselves back in their starting position. To disassemble the headrest, take out both headrest locking mechanisms and rotate them to an angle of approximately 90° and take the headrest off the backrest wedge spigots. To change the angular position of the headrest in relation to the backrest, push the lever (fig. 17, pos. 3) triggering the gas spring mechanism. Releasing the lever locks the headrest in the set position. To change the angular position of the section II – the mattress (fig. 17, pos. 1) – in relation to the headrest set on the backrest wedges, pull the lever (fig. 17, pos. 4) triggering the gas spring mechanism. Adjusting the angular position of the section II should be supported by hand, especially when a patient's head is rested on it. Use caution when controlling the strength of the springs. The most ergonomic position is achieved when the mattress section (fig. 1.1, pos. 1) is set at an angle between 0° and 45°.

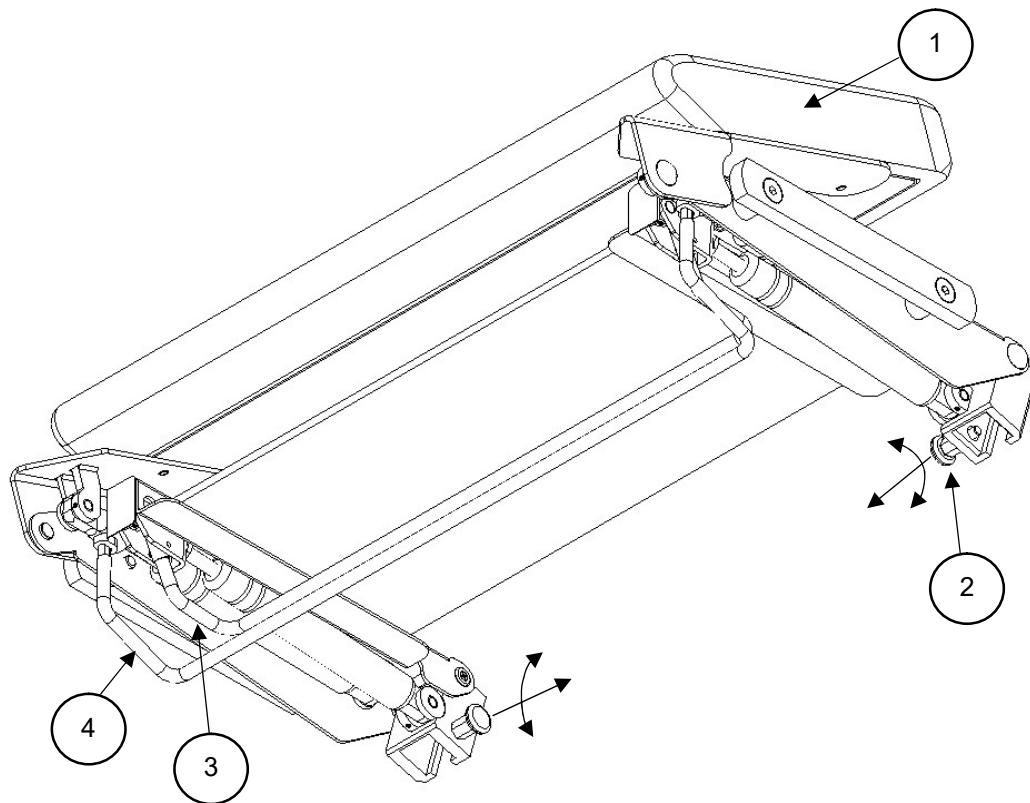


Fig. 17

**ATTENTION!**

Make sure that the headrest is installed correctly.

Use caution when adjusting the angular position of the mattress section.

3.16 Changing positions between the leg rest segments with the headrest segment

The table enables to change positions between leg rests and headrest by using configuration “A” or “B” (fig. 4). In reality, this involves installing the headrest on wedge journal of a seat segment and leg rests (a leg rest) are installed using wedge journals of the backrest segment. The installation or removal method for those segments is the same as for setting their positions: the headrest is installed from the backrest segment side, and the leg rest is to be installed from the seat segment — configured “A”.

For configuration “B”:

1. Function description labels for Trendelenburg and anti-Trendelenburg must be interpreted conversely. I.e. Trendelenburg means anti-Trendelenburg and the headrest label means seat segment.
2. Function symbols for Trendelenburg and anti-Trendelenburg positions on the alternative drive keyboard must be interpreted conversely. I.e. Trendelenburg becomes anti-Trendelenburg.

Every time the headrest and the footrest are repositioned, change the table orientation. To change table orientation, press and hold button [8] on the wired remote (also using remote controller or side control panel) until the sound is heard.

Caution: The 6-sectional table pallet has no feature of swapping the headrest and the footrest positions.

3.17 Installation and disassembly of mattresses

All mattresses can be removed without any tools. They are fixed on fixing pegs.

3.18 Table mobility

Wheels installed in the base of table make it possible to move it in every direction. The table is equipped with movement lock used during operations and treatments performed on the table.

Table SU-03 standard version

This version of a table is equipped with two feet (fig. 1.1. item 13), lowering of that causes loss of contact of two wheels with a surface, which prevents a table from shifting. Protrusion of feet may be adjusted by twisting them in or out. To lower feet, press a pedal towards floor (fig. 1.1, item 11.2) until resistance. To lift feet, lift a pedal to vertical position (fig.1.1, item 11.1).

Table SU-03 Supermobile version

In this version the table is equipped with central brake. The castors brake lever has three positions:

- upper - direction blockade (fig.2.1, pos. 11.3),
- middle (horizontal) - blockade released (fig. 2.1, pos. 11.1),
- lower - all castors blocked (fig.2.1, pos.11.2).

The direction blockade is used during the table movement on long, straight sections and make it easy to turn the table.

All castors brake causes a total bed immobilization



ATTENTION!

Throughout surgical procedures table wheels should be blocked.

Table should be roll in at least for 2 people.

Do not roll the table with the load (patient) after the ramps.

Trundle table is the minimum amount.

The floor under the table must be free from any obstacles!

When rolling the table avoid collisions!

Do not roll the table over electric cables!

During cleaning and disinfection of the operating table and floor of the operating / treatment room, the table should be unlocked (so that the feet do not come into contact with the floor).

The disinfected and drained operating table should be locked on the disinfected and dry floor.

3.19 Antistatic properties


A table structure allows for drainage of electrostatic charge through the following channels:

- By antistatic wheels to conducting floor,
- By potential equalisation clamp.

Operating table SU-03 should be used on antistatic floor. In case of lack of such floor, an electrostatic charge is drained through a potential equalization line. The potential equalising conductor is a standard table accessory.

Antistatic properties of the table shall be maintained if mattresses produced by FAMED ŻYWIEC Sp. z o.o. are used.

3.20 Potential equalising clamp

SU-03 operating table have inside system of potential equalization leading to the clamp (fig. 1.2, item 16.6) marked by symbol .



Throughout surgical procedures the table must be connected to the installation of potential equalization in the operations room.

ATTENTION!

The cable is provided in standard table accessories.

3.21 Collisions

In some extreme positions of the table, in particular, when accessories installed on side stripes are used, mechanical collisions may take place. Because of that, one should protect the table and accessories from damages.

3.22 Battery charging

A charger built-in in the table makes it possible to charge the batteries in the table.

In order to charge batteries, connect a power supply cord to a socket in a table and set a switch (fig.1.2, item 16.4) in position „I“. When power is on, it is indicated by a green LED diode on a connection panel (fig.1.2, item 16.3). Batteries are charged automatically. Charging process consists of two phases: first phase – indicated by a yellow LED diode on a connection panel – high-current charging, upon completion the diode goes out and a second phase begins – support charging. After high current charging, the batteries should be charged for about 4 hours. Total charging time is about 12 hours, charging time may be prolonged without any damage to the battery. When batteries are full, the supply cable should be disconnected.



If after 12 hours of charging both diodes on the connecting panel are still on it means that the table is damaged. This fact should be notified to an authorized service centre.

ATTENTION!

Nominal period of table operation is approx. 80 cycles with fully charged batteries. A cycle is defined as executing all electrically controlled movements in full extent.

The batteries may be charged when the battery level on the display is below 50%.

If the battery level display indication on the side panel (fig. 7, item 10) lit up in yellow, the batteries may be charged, and must be charged if the indication is red

If you charge batteries only after they become totally flat, every fifth charging cycle period should be twice the length.

Never store the table with flat batteries (when the batteries are flat the red indicator on the remote lights up during performing any movement).

This is why it is recommended to charge half-discharged batteries (the yellow diode is on).
Battery life time is 3 years.

**ATTENTION!**

Never store the table with flat batteries (when the batteries are flat the red indicator on the remote lights up during performing any movement).
If batteries need to be exchanged, do always exchange a set of two batteries.
Exchanging a single battery limits an operating time of a table and causes quick wear of a new battery.

4 Installation and service of equipment

The following extra accessories may be provided with the operating table SU-03:

Accessory		Symbol	Allowable max. load
1	Screen frame	WS-01.5	14 kg
2	Screen frame with regulation	WS-01.6	14 kg
3	Hand grip	WS-02.5	17 kg
4	Thigh grip	WS-03.5	23 kg
5	Shank grip	WS-04.5	23 kg
6	Knee support	WS-05.5	17 kg
7	Left and right arm support	WS-06.5	14 kg
8	Hand angular support	WS-07.5	14 kg
9	Big supporting bolster	WS-08.5	50 kg
10	X-ray tray	WS-11.7	10 kg
11	Trolley for accessories	WS-13.5	50 kg
12	Grip for anaesthesiologic pipes	WS-14.5	14 kg
13	Table for tools	WS-15.5	14 kg
14	Single position stripe	WS-16.5	100Nm
15	Multi position clamp mechanism	WS-17.6	100Nm
16	Multi position clamp mechanism	WS-17.7	100Nm
17	Tray for x-ray plate	WS-19.7	10 kg
18	Specialist headrest	WS-21.5	15 kg
19	Specialist headrest	WS-21.9	15 kg
20	Head rest for cervical kerb	WS-21.8	20 kg
21	Armrest	WS-22.5	20 kg
22	Waist strap	WS-23.0	125 kg
23	Gynecological attachment	WS-28.7	15 kg
24	Urological attachment	WS-29.7	15 kg
25	Proctologic attachment	WS-30.5	135 kg
26	Complete handrails	WS-32.5	23 kg
27	Side x-ray handle	WS-33.0	14 kg
28	Wrist grip	WS-34.5	14 kg
29	Attachment do arthroscopy	WS-39.5	17 kg
30	Attachment for meniscus operation	WS-40.5	17 kg
31	Belly belts	WS-41.0	125 kg
32	Footrest belts	WS-42.0	23 kg
33	Hand belt	WS-43.0	17 kg
34	Thigh belt	WS-44.0	23 kg
35	Specialist head bolster - narrow	WS-45.5	15 kg
36	Specialist head bolster - wide	WS-46.5	15 kg
37	Attachment for hand surgery	WS-47.5	20 kg
38	Support for hand surgery	WS-48.5	17 kg
39	Womb support	WS-49.5	40 kg
40	Side support	WS-50.5	40 kg
41	Side rest with lever	WS-50.6	40 kg

42	Chest support	WS-52.5	40 kg
43	Side-shoulder support	WS-59.5	14 kg
44	Lithotomic stirrups	WS-64.5	25 kg
45	Mattress for backbone	WS-65.0	80 kg
46	Semi-bolster	WS-66.0	20 kg
47	Bolster for neck	WS-68.0	10 kg
48	Head bolster	WS-69.0	10 kg
49	Support for shoulder operations	WS-87.5	14 kg
50	Roller lift	WS-88.5	15 kg
51	Sieve for urological bowl	WS-89.5	10 kg
52	Shoulder Surgery Attachment	WS-91.7	85 kg
53	Bags Holder	WS-92.5	3 kg
54	Hip Support	WS-93.5	40 kg
55	Leg Abduction Attachment	WS-96.5	20 kg
56	Plate legrest	SG-42.5	40 kg
57	Gynecological segment	SG-44.5	135 kg
58	Drip hanger	WK-01.5	10 kg
59	Orthopedic attachment	SO-12	135 kg
60	Headrest adapter	WS-84.7	15 kg
61	Gynecological attachment	STIRRUPS	17 kg
62	Neurosurgical attachment	DORO	15 kg
63	Arm support	PR-01.5	20 kg
64	Foot controller	WS-36.0	-
65	Wireless remote control	WS-37.0	-

When ordering table accessories, please give table's name and symbol.

The producer reserves the right to modify accessories according to client requirements and produce new accessories complains with norm of safety.

5 Criteria on whose basis it is assessed whether product operation is correct or not



Correctness of table operation shall be checked every day before the beginning of its operation.

ATTENTION!

The method of checking whether operation of the table is correct:

1. Check the work of the electro-hydraulic system by performance of all movements controlled by wire-connected control.
2. Check stability of the table when its feet are down by trying to move the table manually: pushing of the table in any direction should not cause tilting or moving.
3. Check mechanisms of adjustment of positions of the segments controlled by gas springs by a change of position and locking (see item 3 *Operation*). The mechanism should work without jamming, after locking the segment should not change its position (check by manual pressing of the segment).
4. Check if there are no mechanical plays by manually moving the top of the table.
5. Check the level of batteries on diodes which are on the control (see the item: Wire-connected control').

If the table underwent the above described tests with positive results and there were no disturbing sounds (squeaks and grinds), the table can be used safely.
Otherwise see item 6.6 '*Location and removal of defects*'.

**ATTENTION!**

If the product is not fully functional, i.e. the output parameters differ from the description contained in this manual, the bed must not be used. This situation should be reported to the producer or supplier (dealer). The use of an improperly functioning product may result in damages, which will encumber the user and which will not be a matter of producer's responsibility.

6 Table maintenance

6.1 Storage

If the product is not to be used for a longer period of time, it should be stored in the below mentioned climatic conditions:

- temperature: $25^{\circ} \pm 10^{\circ}\text{C}$,
- relative humidity: $50\% \pm 25\%$.

**ATTENTION!**

During storing, the operating table must be turned off. The switch (position 16.4, draft 1.2) must be in the "0" position.

If the table is stored for a longer period of time, it must be connected to the power supply for 24 hours each 6 months to charge the batteries.

The table may not be stored with batteries low (During any movement the red diode on the wire controller is lighting).

6.2 Cleaning and disinfecting

For cleaning and disinfecting, there should be used only the cleaners and disinfectants recommended by Famed Żywiec Sp. z o.o. listed in Annex 2 to this manual (allowed to turnover and use on the territory of the country, where they are used).

**ATTENTION!**

There is allowed to use decontamination device with 7-12% hydrogen peroxide dilution for products disinfection.

The power cable must be disconnected before disinfection!

During the washing and disinfection of the table and operating theatre's floor the table should be unlocked (so that the feet don't touch the floor).

The product /table must not be disinfected in disinfection chamber.

It is prohibited to apply caustic, corrosive and bleaching agents!

Disinfected agents containing active oxygen or chlorine in the concentration specified in annex 2 by Famed Sp. z o.o. , have no negative effects on products.

The use of agents containing active chlorine in their composition in concentrations of 500 – 1000 ppm for disinfection may cause a gradual loss of a product's aesthetic qualities in the form of:

- loss of sheen in varnish coatings,
- yellowing of white paint coatings, change of shade in colored varnish coatings ,
- yellowing of white plastics,
- yellowing of white upholstery materials and change of shade in coloured materials,
- formation of rusty raids in stainlees steel surface, requiring periodic cleaning and maintenance,

It does not however, cause a deterioration in technical parameters or in the safety of products.

After disinfection with aqueous preparations one should proceed according to the instructions issued by agent's manufacturer (prevent flooding internal and mobile table's parts, drying the surface).

It is recommended to clean and wash stainless steel operating tables always after daily work cycle finished.

It is recommended to carry out table and mattress periodic maintenance with steel preservatives agents, e.g. Neoblack / agent recommended in Annex 2/ or paraffin oil – at least once a week.

Inaccurate wash of steel products and elements, may cause dark brown stains on their surface, after the disinfection process. It is possible to remove them with chlorine-free cleaning agents available on the market, recommended by manufacturers of cleaning agents for stainless-steel. After having applied cleaning agent, products shall be thoroughly washed, dried and preserved.

Incomplete cleaning agent removal may also result in occurrence of discolouring and corrosion centers.

It is recommended to use alcohol-based preparations /alcohol wipes to disinfect external parts of electronic control systems /keyboard, remote control unit, wiring, electric actuators/. As soon as the disinfection process is complete, the above-listed elements should be precisely wiped to dry.

Painted metal surface and chrome can not be damaged. Disinfection of damaged varnish coating or chrome cause its degradation – corrosion product.

There must not be use disinfectants with intense colour to disinfect elements made of light colours foamed polyurethanes /white, cream-coloured, light grey/, since they may produce hard to remove stains.

For elements that are made of plastic /ABS casing, upholsterer's fabric, polyurethanes equipment/ there is not allowed to use any products, which components might destroy network structure (organic solvent, petrol, acetone, alcohols in concentration over 30%).

Dirty of imitation leather should be immediately removed by soap with water. There is not allowed to leave the dirt on the imitation leather, as the disinfection of dirty material preserves the dirt stains (making them impossible to remove).

The surfaces which are directly exposed to action of antiseptic agents with intense colour should be protected.

Wooden and woodenlike elements should be cleaned and preserved only with wood maintenance agents available on the market. During cleaning and preservation one should proceed according to the instructions issued by manufacturer. There is not allowed for contact of washing agents with this elements lasting longer than it is specified by the manufacturer. Agents permitted for use in closed areas without the need to use any extra ventilation should be used only. In case of highly soiled surface, cleaning by water with soap is allowed under the condition that they are carefully dried (careful wiping the surface by dry rubber) and conservation. Agents to quick disinfection should be used only.

Disinfected, cleaned, dried and preserved operating table should be locked on the disinfected and dried floor.

After washing and/or disinfection product must be precisely drained!!!

Failure to observe to above-listed requirements shall result in loss of warranty rights.

6.3 Damages and defects

Damages and defects found in the product or product accessories should be reported immediately to a person in charge of such issues. The bed which can not be safely operated (e.g. damaged electric or mechanical elements) must not be used till it is repaired.

6.4 Repairs and inspections

Repairs are done by the producer. The user can not carry out any repairs on his own unless he has undergone special training or has been authorised to do that. When the producer has given his written permission for repair of the product by client's technical staff, the producer shall provide the client with necessary charts, lists of spare parts, descriptions and information on repairs.

The producer allows only to use original spare parts. In order to provide safe and reliable operation of the product one should use only spare parts provided by the producer. Worn out parts shall be removed as provided in environmental protection regulations.



ATTENTION!

The product contains products which may be dangerous to the environment:

- oil (gas spring, hydraulic system),
- a gel battery

The rules of proceeding with used products which may be dangerous to the environment are defined in environmental regulations.

In the case of used batteries replacement can make the manufacturer or qualified technical personnel in accordance with the instructions from the manufacturer replacement.

Used batteries receives a medical device manufacturer or indicated by the authorized repairer or Third Party having required by environmental law decisions to conduct.

Repairs and maintenance must be performed only by qualified personnel. If a product is operated outside Poland, one should inform about a necessity of a repair a producer or the dealer from whom the product was purchased.

Every repair of the product should be recorded on the list of repairs enclosed to the guarantee card on pain guarantee loss!

6.5 Control of technical condition

In order to ensure safe and proper technical condition of the product, the product should undergo periodical technical inspections to be carried out by the producer or authorised and trained technical staff of the customer.



ATTENTION!

Periodic inspections of the table must be recorded in the Device Passport or the product's warranty card.

Only a positive result of product inspection can be the basis for its further operation.

After the whole life of the product, a permission for its further operation is granted after obtaining a positive result of technical inspection made by the authorized service. The permission is granted every for 12 months.

<i>Range of technical inspections</i>	<i>Frequency</i>
<ul style="list-style-type: none"> • IEC 62353 (Table 1) compliance check • General technical condition check (Table 2) • Checking safety and functions • – check of functioning of remote operated functionalities • – check of reset function — calibration of inclinometers • – checking collision limits • – checking antistatic parameters of mattresses. Resistance value shall be within the range from 10^4 to $10^6 Q$ • – Check of electric connections. • – Check of hydraulic connections. • – Check of base and column condition. • – Check of mechanical connections. • – Check of longitudinal movement function. • – Check of battery capacity. • – Check of play on the column. 	every 12 months

In order to ensure safe and proper operating and long life of the product every six months the following actions should be performed.

<i>Scope of inspection in line with IEC 62353</i>	
Visual inspection	<ul style="list-style-type: none"> • Checking all fuses accessible from the outside, and their conformity with documentation (fuse capacity, characteristics), • Checking if all markings and labels are in place and legible, • Checking if all mechanical parts are in place, • Checking for damages and checking the cleanliness of the device, • Checking accessories, • Checking product documentation and documentation of previous inspections.
Measurements	<ul style="list-style-type: none"> • Measurement of protective earthing resistance, • Measurement of leakage currents, • Measurement of insulation resistance.
Functional test	<ul style="list-style-type: none"> • The functional test must be carried out by a suitably experienced person and trained in operation of the device. • The functional test and the results of specific tests and measurements should be documented.

When to do the inspection:

- the device has been repaired;
- periodically (every 12 months) during technical inspection.

To ensure safe and correct operation of the device during the service life, the user must perform technical checks listed below every 6 months.

<i>Scope of technical condition check</i>
<ul style="list-style-type: none"> - Check of all mechanical functions by executing all movements in line with the technical specification parameters: – Checking the table movement capabilities. – Checking central brake system. – Checking the removal and installation of removable segments. – Checking the load bearing plates under mattresses. – Check all visible bolted connections without removing housing. – Check for mechanical play and if all locks work. – Check the condition of the power supply cable. – Check the insulation of wired controller cable. – Check the condition of columns cover.

- Check condition of mattresses.
- Check efficiency of the central wheel lock.

An inspection should involve a visual inspection and the noticed malfunctions should be handled as provided in item 6.6 *Location of defects and their removal*.

6.6 Location of defects and their removal

A list of repairs which may be carried out by the client on his own.

<i>Damage</i>	<i>Possible cause</i>	<i>Removal</i>
The table cannot be moved	locked wheels	Unlock blockade pedal
The table is not stable	Wrong adjustment of table feet	Unscrew or screw down feet with a wrench
Table does not move when the button on the control is pressed	Batteries down	Charge the batteries
	Control plug incorrectly plugged to the socket in the table	Plug in the plug correctly
The table is not stable	Wrong adjustment of feet	Unscrew or screw down feet with a wrench
Plays in screw joints	Plays appeared during product operation	Screw down with generally available wrenches
Table top in 0 position is not leveled	Change of "0" position setting	In case of small deviation angle set the table top in leveled position manually, and then press the ON and "0" buttons till the sound signal is heard. In case of larger deviation or if the above actions do not bring effects call service.
Loss of parameters values by electrically controlled functions of the table	Loss of the calibration parameters of the table controller	Carry out another calibration of the table controller by the trained service.

If the fault cannot be eliminated, put the product aside and call the repair department or FAMED ŻYWIEC Spółka z o.o. service.

6.7 Product liquidation

If the customer resign from further product exploitation, he is obliged to product liquidation according to rules of environment protection, detailed information is situated in annex no. 3.

7 Characteristics of electromagnetic environment


Electromagnetic emissions

Medical device operating table SU-03 is to be used in electromagnetic environment specified below. The customer or the user of medical device the SU-03 should assure that it is used in such an environment.		
Emission type	Classification	Electromagnetic environment – guidance
emission RF CISPR 11	Group 1	Medical device operating table SU-03 produces energy with radio frequency only for its internal function. Therefore, its RF emission are very low and are not likely to cause any interference in nearby electronic equipment..
emission RF CISPR 11	Class B	Medical device operating table SU-03 is suitable for use in all establishments, including domestic establishments and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.
Harmonic emission IEC 61000-3-2	Class A	
Voltage fluctuation, flickering IEC 61000-3-3	Complies	

Electromagnetic immunity

Medical device operating table SU-03 is to be used in electromagnetic environment specified below. The customer or the user of medical device the SU-03 should assure that it is used in such an environment.			
Immunity test	IEC 60601-1-2 Test level	Compliance level	Electromagnetic environment – guidance
Electrostatic discharge (ESD) IEC 61000-4-2	± 6 kV contact ± 8 kV air	± 6 kV contact ± 8 kV air	In the location of SU-03 use the floor should be wooden, concrete or covered with ceramic tiles. If the floor is covered with a synthetic material, the relative humidity should be at least 30%.
Surge IEC 61000-4-5	± 1 kV differential mode ± 2 kV common mode	± 1 kV differential mode ± 2 kV common mode	Mains power quality should be that of a typical commercial or hospital environment
Series of quick transitory stages IEC 61000-4-4	± 2 kV for power supply lines ± 1 kV for input/output lines	± 2 kV for power supply lines ± 1 kV for input/output lines	Mains power quality should be that of a typical commercial or hospital environment.
Voltage dips, short interruption and voltage variations on power supply input lines IEC 61000-4-11	< 5% U_T (>95% dip U_T) for 0.5 cycle 40% U_T (60% dip U_T) for 5 cycles 70% U_T (30% dip U_T) for 25 cycles < 5% U_T (>95% dip U_T) for 5 seconds	< 5% U_T (>95% dip U_T) for 0.5 cycle 40% U_T (60% dip U_T) for 5 cycles 70% U_T (30% dip U_T) for 25 cycles < 5% U_T (>95% dip U_T) for 5 seconds	Mains power quality should be that of a typical commercial or hospital environment. In normal use operating table SU-03 is battery operated. Connect to mains network only for battery charging.
NOTE U_T is the a.c. mains voltage prior to application of the test level			

Electromagnetic immunity

Medical device operating table SU-03 is to be used in electromagnetic environment specified below. The customer or the user of medical device the SU-03 should assure that it is used in such an environment.			
Immunity test	IEC 60601-1-2 Test level	Compliance level	Electromagnetic environment – guidance
Transmitted disturbances induced by fields with radio frequencies IEC 61000-4-6	3 Vrms 150 kHz to 80 MHz	3 Vrms	<p>Portable and mobile RF communications equipment should be not used not closer to any part of the operating tables SU-03, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the trasmitter.</p> <p>Recommended separating distance:</p> $d = 1,2\sqrt{P}$ $d = 1,2\sqrt{P} \quad 80 \text{ MHz to } 800 \text{ MHz}$ $d = 2,3\sqrt{P} \quad 800 \text{ MHz to } 2.5 \text{ GHz}$ <p>where P is the maximal output power of the transmitter in watts (W) according to the transmitter manufacturer and d is the recommended distance in meters (m).</p> <p>Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey, ^a should be less than the compliance in each frequency range. ^b</p> <p>Interference may occur in the vicinity of equipment marked with following symbol:</p> <div></div>
Electromagnetic field with radio frequency IEC 61000-4-3	3 V/m 80 MHz to 2.5 GHz	3 V/m	

a Field strength from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radio, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which medical device the operating table SU-03 is used exceeds the applicable RF compliance level above, the operating table SU-03 should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating medical device the operating table SU-03.

b Over the frequency range 150 kHz to 80 MHz, field strength should be less than 3 V/m.

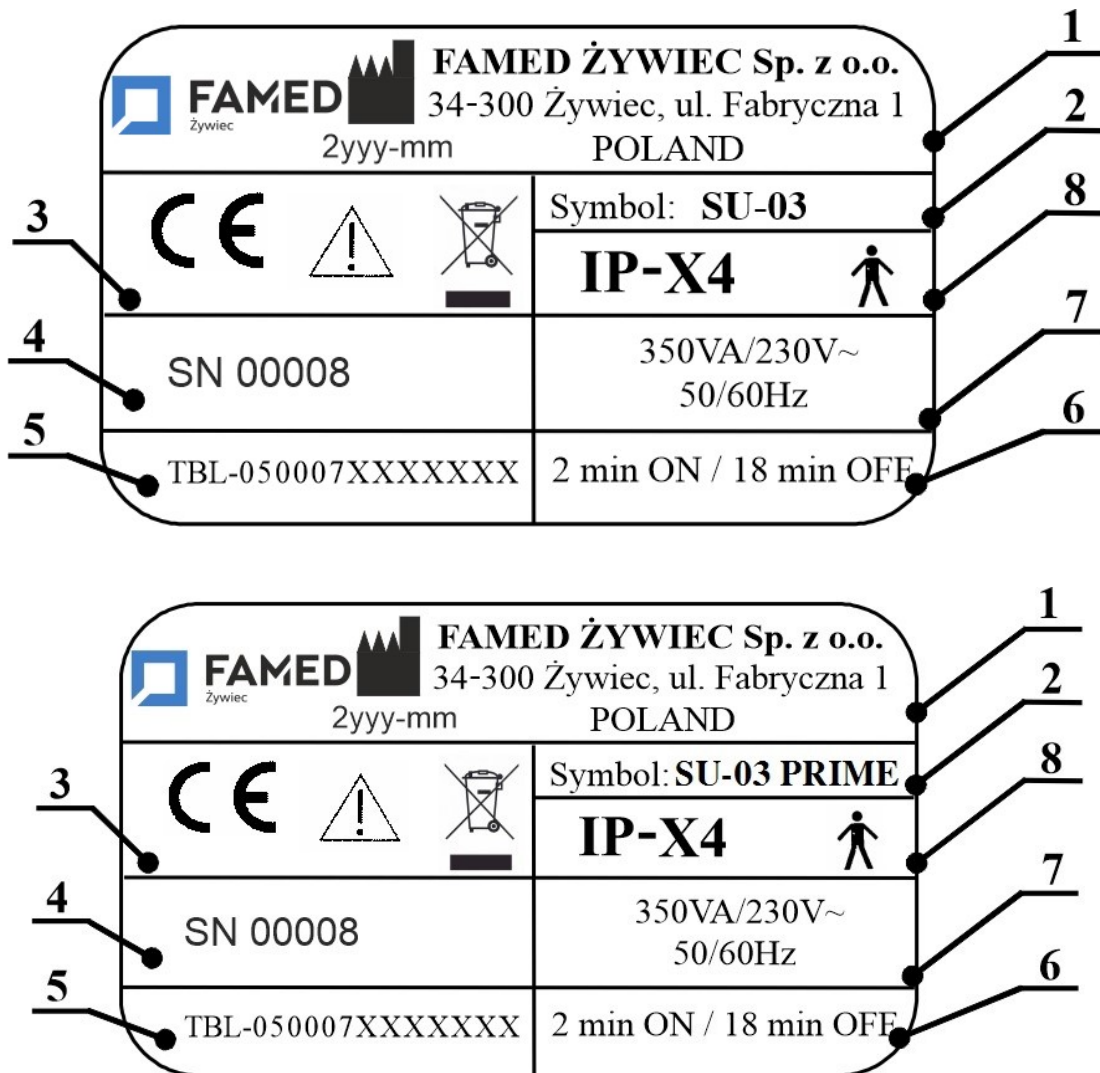
NOTES

These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

8 Table identification

For queries on the table, and procurement of spare parts, please give the serial number located on the table plate and on the warranty card.

8.1. Nameplate



Description of meanings of particular boxes of a name plate:

1 – Logo, symbol “manufacturer”, date of production, name and address of the Manufacturer,

2 – Product symbol,

3 – General markers:



CE mark,



Caution: Follow the safety precautions.



Caution! – During disposal of the product, one should act according to the Act concerning electrical and electronic equipment waste,

4 – Product trade number with untypical order number (if applicable),

5 – Index of the product,

6 – Class of duty,

7 – Power supply specification,

8 – Additional markings:

IP-X4 Degree of protection,



Application part B.

8.1 Labels

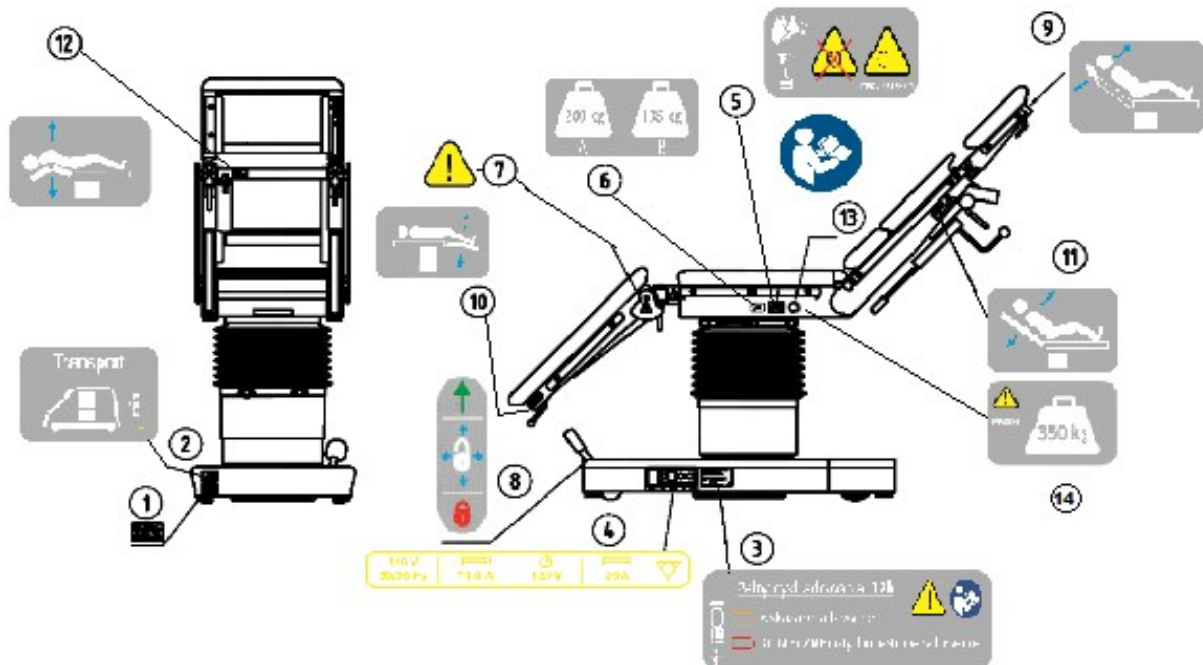



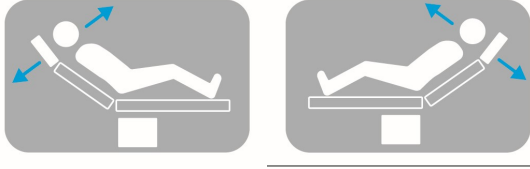
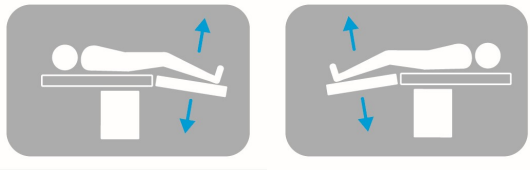
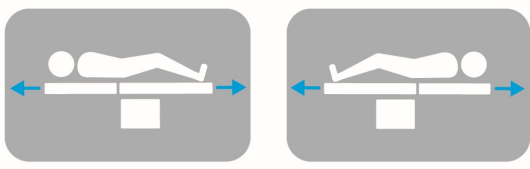
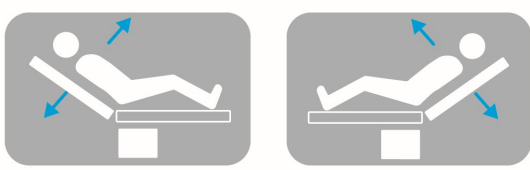
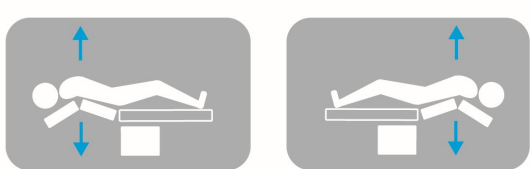



Fig. 14 Location of the labels

1	See point 8.1	Nameplate
2		Transport position of the table (see point 2.1)
3		The method of battery charging (see point 3.19)
4		Description of connecting panel in operating table
5		For cleaning and disinfection you should not use agents containing active oxygen and chlorine

6		<p>Maximum authorized workload 200 kg – configuration A</p> <p>Maximum authorized workload 135 kg – configuration B</p>
7		Caution: Follow the safety precautions
8		Central wheels blockade (mobile base)
9		Back rest adjustment
10		Leg rest adjustment
11a		Longitudinal shift
11b		Head rest adjustment
12		Kidney elevator adjustment
13		Follow the instructions

14		Maximum load
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Notice! *The producer reserves the right to introduce in the product structural modifications resulting from technical progress which are not covered in this operating manual.*


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Item: **SU-03**
Edition: **September 2016**

Spare Parts List			SJW-4-01-02		
Basic spare parts					
No	Name	Qt.	Code number	Category	Supplier
1	Battery	2	S11112000012120	3	Famed Żywiec Sp.z o.o.
2	Battery (SU-03.14)	2	S11112000000485	3	Famed Żywiec Sp.z o.o.
3	Control system of table SU-03.9	1	R60050-SU0300000	1	Famed Żywiec Sp.z o.o.
4	Control system of table SU-03.14	1	R60050-SU0314000	1	Famed Żywiec Sp.z o.o.
5	Control unit of one way pump .	1	S11155000044180	1	Famed Żywiec Sp.z o.o.
6	Standard, antistatic wheels ϕ 125	2	S06549041250XSX	1	Famed Żywiec Sp.z o.o.
7	Koła zwykłe antystatyczne ϕ 80	1	S06549040803470	1	Famed Żywiec Sp.z o.o.
8	Standard, antistatic wheels ϕ 125 (SU-03.14)	1set.	R60012-125-10000	1	Famed Żywiec Sp.z o.o.
9	Footer set	4	C047301060000/A01/	2	Famed Żywiec Sp.z o.o.
10	Blockade pedal	1	C212201030000/-02/	1	Famed Żywiec Sp.z o.o.
11	Spring	2	C047301000008/A00/	1	Famed Żywiec Sp.z o.o.
12	Block of electric valves TLC3	1	S091660010BZ030	1	Famed Żywiec Sp.z o.o.
13	Micro-set	1	S091660010MA030	1	Famed Żywiec Sp.z o.o.
14	Harmonic like protection	1	S137321330000034	3	Famed Żywiec Sp.z o.o.
15	Infrared sensor	2	C00TF125	1	Famed Żywiec Sp.z o.o.
16	Attachable panel	1	C218801110000	2	Famed Żywiec Sp.z o.o.
17	Servo-motor “top-bottom”	1	S091660010SHGD3	1	Famed Żywiec Sp.z o.o.
18	Servo-motor for Trendelenburg	1	S091660010SHT03	1	Famed Żywiec Sp.z o.o.
19	Servo-motor of heel side	1	S091660010SHPB3	1	Famed Żywiec Sp.z o.o.
20	Hydraulic rope l=390	1	C213322010100/-01/W1	1	Famed Żywiec Sp.z o.o.
21	Hydraulic rope l=490	2	C213322010100/-01/W2	1	Famed Żywiec Sp.z o.o.
22	Hydraulic rope l=450	1	C213322010100/-01/W3	1	Famed Żywiec Sp.z o.o.
23	Hydraulic rope l=430	1	C213322010100/-01/W4	1	Famed Żywiec Sp.z o.o.
24	Hydraulic rope l=410	1	C213322010100/-01/W5	1	Famed Żywiec Sp.z o.o.
25	Hydraulic rope l=280	2	C213322010200W01	1	Famed Żywiec Sp.z o.o.
26	Grommet seal L+P	2	C191906000000L/-01/	1	Famed Żywiec Sp.z o.o.
27	Motive system of back rest	1	C216304000000/-01/	1	Famed Żywiec Sp.z o.o.
28	Seat mattress	1	C216500000012	3	Famed Żywiec Sp.z o.o.

29	Back rest mattress	1	C080203000000/-02/	3	Famed Żywiec Sp.z o.o.
30	Mattress set I	1	C080300000042/-01/	3	Famed Żywiec Sp.z o.o.
31	Mattress set II	1	C080300000043/A01/	3	Famed Żywiec Sp.z o.o.
32	Crank set	1	C067204000000/A00/	2	Famed Żywiec Sp.z o.o.
33	Driving unit of foot stool	1	C191903000000	1	Famed Żywiec Sp.z o.o.
34	Mattress of footrest	1	C080805000000L/-01/	3	Famed Żywiec Sp.z o.o.
35	Driving unit of head rest	2	C216103000000	1	Famed Żywiec Sp.z o.o.
36	Mattress of head rest section	1	C080105000000/-01/	3	Famed Żywiec Sp.z o.o.

Legend:

Markers in column „Category”

- 1 - The elements endanger fast wear out
- 2 - The elements not endanger fast wear out
- 3 - The elements wear out depended of condition of exploitation