

# Operating manual

## Electric Operating table



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# Introduction

## About this operating manual

This operating manual includes introduction about the symbols and safety instructions. You can see the description , instruction and maintenance about our product in the followed pages. And some technical data and information about the product.

In case of any question ,we therefore kindly ask you to contact after-sales service personnel or distributor.

This operating manual is to be read and observed by any person using or handle this operating table.

In addition to some accident, we obtest users to be familiar with the usage and the points of attention.

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## Symbols used in the text



### **Danger!**

This symbol will appear whenever safety instructions are designed to protect people from physical harm. The symbol stands for imminent danger of death or of serious injury.



### **Caution!**

This symbol will appear where situations are described which might be dangerous, and which might inflict slight injuries.



### **Attention!**

This symbol will appear in front of such hints which shall prevent the table or other equipment from being damaged.



### **Advice!**

This symbol will appear in front of additional helpful pieces of advice.

- **A dot in front of the text means:**

Please pay attention and you have to do.

---

## Summary of the instructions



### **Danger!**

Patients may be exposed to danger by electrostatic tension. By means of the potential equalization device electrostatic tension are conducted to earth. Always connect the potential equalization device of the operating table to earth before use.



### **Danger!**

The patient may get hurt if the operating table is displaced while he or she is lying on the top in the knee-elbow-position. Do not displace the table with the patient in knee-elbow-position.



### **Danger!**

The patient may get hurt if the operating table is displaced with an attached extension device, due to its reduced stability against tilting. Do not displace the operating table with an attached extension device when a patient is lying on the top.



### **Danger!**

Do not press two buttons at the same time!



### **Attention!**

never press one button over 2min!



### **Attention!**

The cushion will deform if exposed to heat. The operating table, including its cushion, must not be sterilized by super heated steam.



### **Attention!**

Agents for disinfection of the patient's skin may cause discolorations on the cushions. Remove such disinfecting agents from the cushion in order to avoid such discolorations.

**Attention!**

Disinfecting sprays may cause corrosion on mechanical parts, or create explosive mixtures inside the table components. For this reason, do not use disinfecting sprays!



**advice:** The position of the castors will influence the stability of the operating table.

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# Description

## Use and brief introduction

The product belongs to class I, type B. Non AP or APG device, continuous device. And possesses application part.

Engineered for increasingly complex surgical scenes, NEW comes with intelligent automatic control system satisfying various demands of general surgeries.

- Longitudinal slide up to 350 mm for free access to C-arm.
- Extreme weight load capacity of 250 kg with highest safety and stability.
- Memory pad with antistatic, waterproof design.
- Standard override panel control makes the control safer.

The operating table is widely used, easy to operate and adjust with reliable performance, which is a ideal table for different hospital.

## General content

### Basic data

The technical data should look at Form 1

<b>Form 1: basic data</b>				unit:mm
basic data Model	length	Width	lowest height of tabletop	Distance of elevation
	L	B	h min	S
	≥2060	550	700±10	≥300

### Gross weight、 net weight、 volume

Gross weight:270kg, net weight:220kg, Volume (long×width×height) 1360mm×860mm×880mm.

### Safe working load

The safe working load of the table is 250kg.

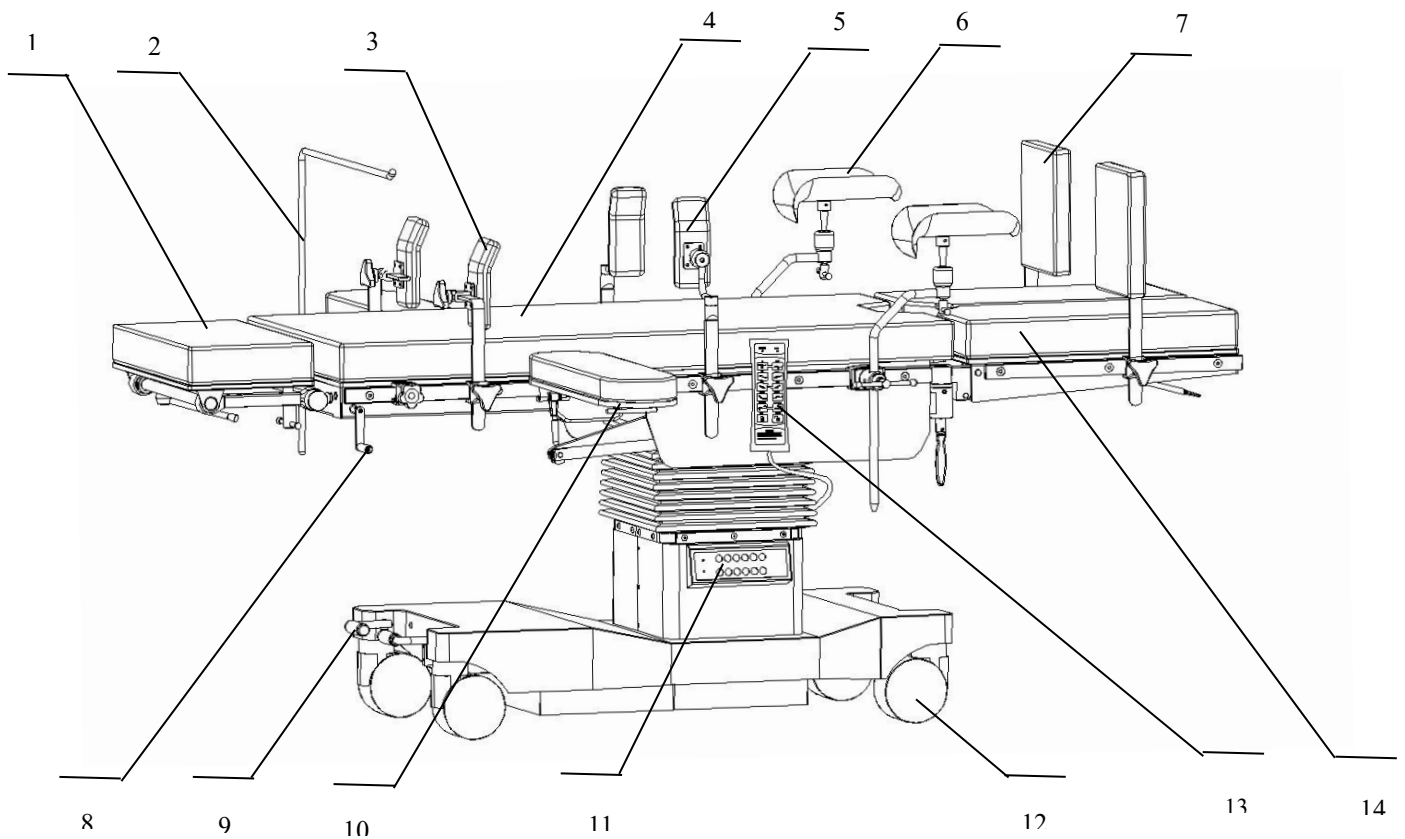
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## Product information and feature

### Product information

The operating is formed by head plate and back plate, waist plate, buttocks plate and leg plate

Please look at the Picture 2



1-Head Plate; 2-Anesthetic Screen; 3-Shoulder support; 4-Back Plate; 5-Body support ;6-Leg support; 7-Foot Plate; 8-Kidney Bridge Handle; 9-Castor brake; 10-Arm Board; 11- Optional Control Panel; 12-castors; 13-Hand Remote; 14- Leg Plate;

**Picture 2 Diagram of structure Electric operating table**

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## Feature

- You can adjust the height of the table as you wish (look at picture 2) , convenient for doctors.
- you can take the cushion apart from the table for clean up.

# Commissioning

## keeping

Inside its original packing the operating table may be exposed for a period of 15 weeks to environmental conditions within the limits of :

Ambient temperature	-30°C~55°C
atmospheric humidify	≤95%
Atmospheric pressure	500 hPa~1060 hPa

- The table should be kept in a clean place, never put in the places where influenced by atmospheric pressure, temperature, humidity, aeration, sunshine, or dust and sulfur.
- Please pay attention to the supply frequency 、 electric tension and normal impedance.
- The table should be kept separately from chemicals.
- stock in a ventilated place.

## Transportation

Upon leaving the factory, the operating table are positioned fit for transportation. In case of further transportation at a later date, we recommend to adjust the operating table into the same position.

- In order to transport the operating table,adjust seat and back section in to horizontal position.
- Remove the head and leg plates,and detach other accessories.
- Adjust the table-top into minimum height.

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## Unpacking

Carry the operating table, if possible, inside its original packing to its final site of use. Check the condition of the operating table.

Any possible damage occurred during transportation should be reported immediately to Karen Wu . You will find their address and telephone no. On the last page of this operating manual.

## Power requirements

supply voltage	~220V±10%
supply frequency	50Hz±2%
Power capacity	≥1kw

## using

Ambient temperature	10°C~40°C
atmospheric humidify	≤80%
Atmospheric pressure	760 hPa~1060 hPa

- Please pay attention to supply frequency、 electric tension and normal impedance.
- Should choose anti-static cushion.
- Please check the operating table all the times.
- Once found it out of work ,please stop using.
- Make sure that the patient won't touch the table.
- Please don't take them down when they are out of work, contact the serviceman in time.
- When change the fuse, you should turn off the power.
- It should be separated from the magnetic field when using.

---

## Attention before using

- please read the instruction before using, people who doesn't know the operating method is forbidden to use.
- Please Check the switch, and be sure they can work.
- Please confirm all the power line are connected right and safely.
- When it work with high frequency surgical equipment, the equipment should comply with GB9706.1.

## Attention after using

- To return to the former condition, and turn it off, cut off the electricity supply.
- Put the controller in the right place.
- Clean the table after operations.

# Method of using operation table

## Preparation before using

- electric tension:220V、 frequency :50Hz;
- No objects exist that affect the operations;
- Confirm if all the power lines are connected well, the switch is in “O” condition;
- Move the table to the right place you need;
- Connect the controller with the table;
- Please check the power supply before turning it on;
- Lock the base of the table;
- Fix up the head plate, leg plate and accessories according to the picture.
- The table adopts short-time work, attention: never press one button over 2min.



### **Danger!**

Patients may be exposed to danger by electrostatic tension. By means of the potential equalization device electrostatic tension are conducted to earth. Always connect the potential equalization device of the operating table to earth before use.

**Attention!**

never press one button over 2min!

## Displacement

### Moving and locking the operating table

**Danger!**

The patient may get hurt if the operating table is displaced with an attached extension device, due to its reduced stability against tilting. Do not displace the operating table with an attached extension device when a patient is lying on the top.

**Danger!**

Remember lock the brake when the patient is on the operating table. The patient will be easily hurt if the operating table suddenly move by itself.

## Using adjust

### Head plate



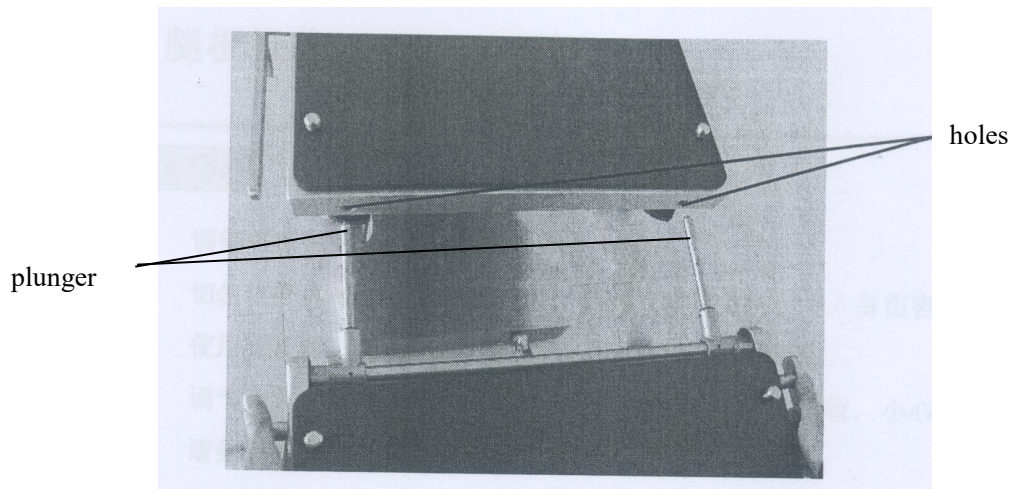
- When removing or mounting the head plate, make sure hands clenched the head plate to avoid it falling and cause equipment damage or personal injury.
- When attaching / detaching the head plate, carefully clip hand.



- Do not install arm support, anesthesia screen and infusion stand on the head plate side rail, in order to avoid the occurrence of unintended equipment damage or personal injury.
- When using the head plate, be sure to spread the head plate drapes to avoid infection.
- Be sure to use the appropriate mattress of head plate, in order to keep the patient from the damage during the process of movement.

### Install the head plate (picture 2)

- 1) Two hands grasp the head plate, mounting the head plate plunger into the holes on the back plate.
- 2) One hand catch the head plate, the other hand tighten the two locking screws .
- 3) Make sure the installation is safe and reliable.



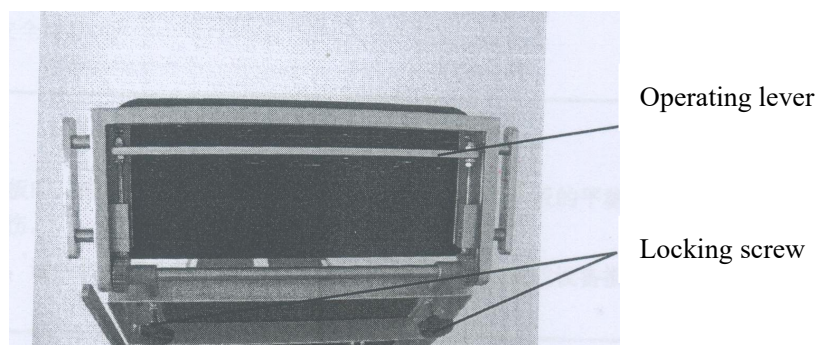
**Picture 2 Head plate installation diagram**

**Adjust the head plate**

- 1) One hand hold the head plate ,the other hand pull out the operating lever.
- 2) Down fold the head plate to the appropriate place ,loosen the operating lever. If you want to up fold the head plate ,just pull the head plate to the proper position.
- 3) Loosen operating lever and head plate.
- 4) Check the safety of head plate.

**Take off the head plate**

- 1) One hand hold the head plate ,the other hand loosen the locking screws.
- 2) Two hands grasp the head plate ,pull out the head plate from the operating table.



**Picture 3 Head plate demolition diagram**



- Carefully and slowly downward the head plate,keep the steady of head plate in the process, in order to avoid the patient from the injury.
- After install the head plate, make sure the head plate is safe and reliable.

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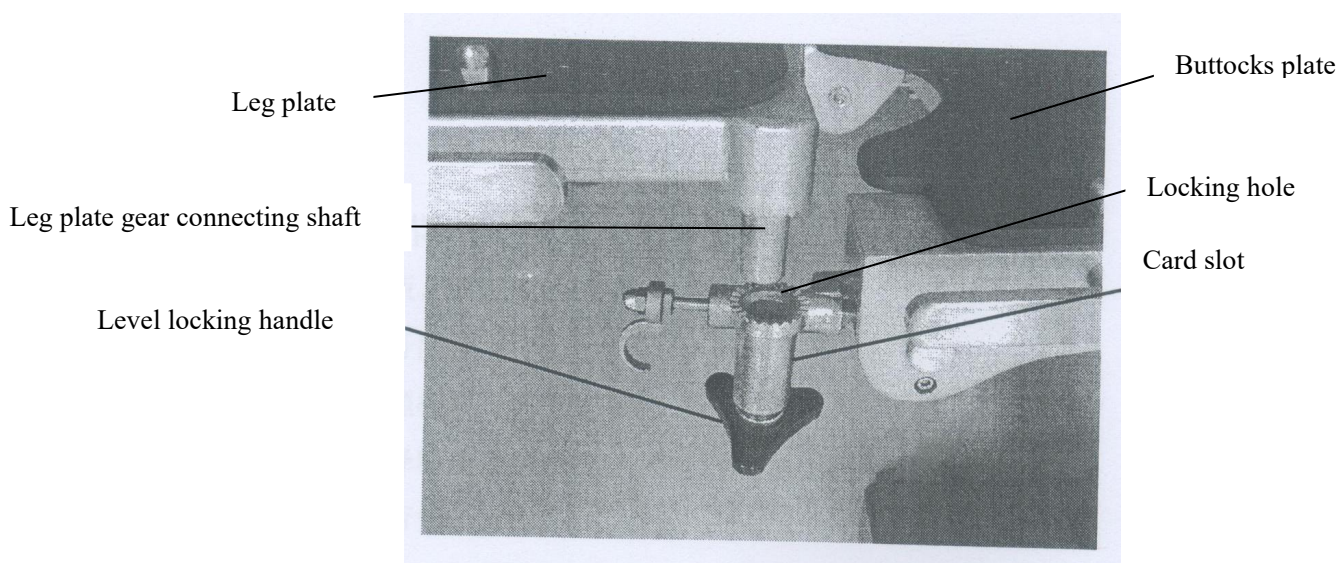
## Leg plate



- When adjusting the leg plate, carefully clip hand.
- Do not place the upper part of patient on the leg plate, so as to avoid the damage of equipment and the injury of person .
- When using the leg plate, make sure the leg plate had covered with sterile drape to avoid infection.
- When adjusting the patient position, do not touch the bottom or moving parts of the operating table tops, carefully pinching.
- Be sure to check the leg plate pad is intact, if it is damaged, replace it.
- Be sure to use the appropriate mattress of head plate, in order to keep the patient from the damage during the process of movement.

### Install the leg plate

- 1) Adjust the tabletop into the proper position.
- 2) Loosen the level locking handle of the leg plate.
- 3) Pull the leg plate plunger into the locking hole on the buttocks plate. (picture 4)

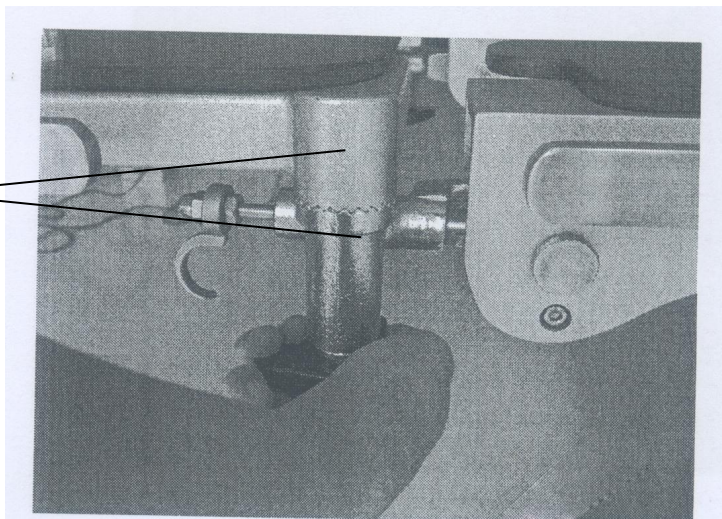


**Picture 4 Leg plate installation diagram**

- 4) One hand hold the leg plate, the other hand tighten the level locking handle, locking the disengaging gear (picture 5) .
- 5) Check the safety of leg plate.

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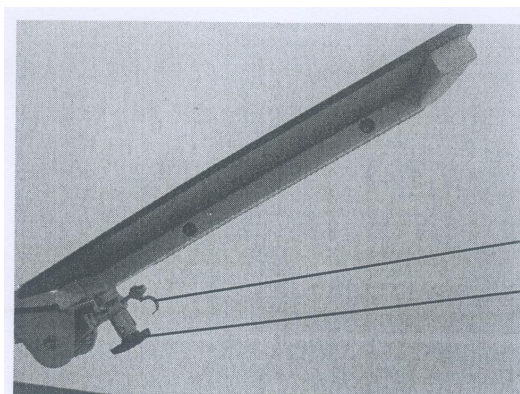
Disengaging gear



**Picture 5 Diagram of locking the leg plate**

### **Adjust the leg plate**

- 1) The longitudinal adjustment of leg plate (Picture 6)
  - a) One hand hold the leg plate and upward the leg plate slightly.
  - b) Another hand pull out the lift release lever of the leg plate.
  - c) Downward the leg plate to the proper place.
  - d) Loosen the lift release lever and the leg plate.
  - e) Up fold the leg plate can upward the leg plate easily. (Picture 6)
  - f) Check the safety of the leg plate .

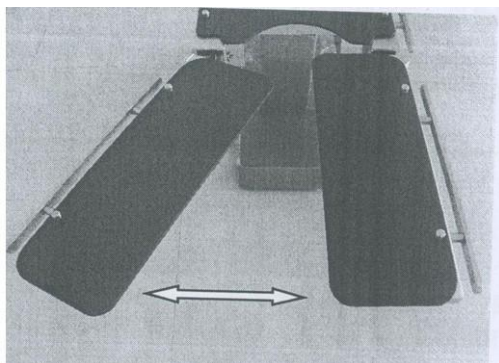


Lift release lever

Level locking handle

**Picture 6 Leg plate up down adjust diagram**

- 2) The horizontal adjustment of leg plate
  - a) Loosen the level locking handle and the disengaging gear.
  - b) Leftward and rightward adjust the leg plate to a proper place.
  - c) Screw the level locking handle.close the disengaging gear.(picture 7)
  - d) Check the safety of the leg plate.



**Picture 7 Leg plate horizontal adjustment diagram**

### **Take down the leg plate**

- 1) Adjust the leg plate in to a horizontal position.
- 2) Adjust the operating table into a proper position.
- 3) One hand hold the leg plate, another hand loosen the level locking handle.
- 4) Pull out the leg plate .

### **Install the accessories**

The guide rails on the both side of operating table is for install the accessories. Insert the accessories into the fixing clamps ,tighten the screw .



- Please install the accessories after read this operating manual.
- Install the accessories refer to this manual,make sure there are safe.
- The accessories is just use for operating table ,do not use for other occasions.
- Be sure to put this manual near the operating table ,easy for query.
- The accessory is limited to our company's fixing clamps and operating table, do not use for other manufacturers operating table, or may cause damage or injury.
- Use this accessory in operation, make sure the weight of accessories and patient is less than 135 kg.



- Prevent the accessories (such as leg support, etc.) from the collision with the wall when adjust the operating table.
- Make sure the accessories and sheet will not stuck in the operating table moving parts, in order to protect the equipment.
- When adjust the operating table or patient position, do not touch the accessories, in order to avoid personal injury.
- When adjust the operating table or patient position, do not touch the bottom of the table between the operating table or moving parts.

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## Anesthesia screen

### 1) check before using

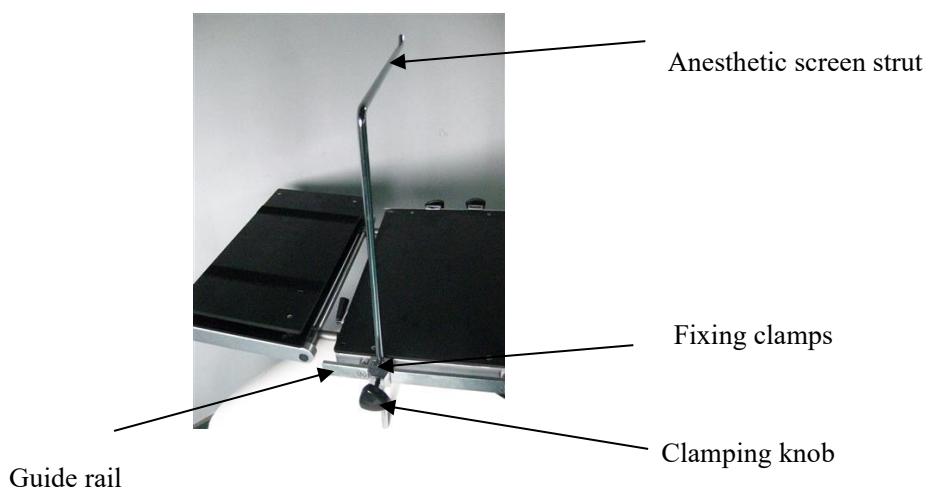
Anesthesia screen don't need special maintenance ,but after prolonged use and the normal aging may affect accessorize,. Please make sure the accessories is safe before use.If there have the phenomenon of aging or damage, please stop to use the accessories, and contact with after-sales man to change the accessories.



- Make sure the accessories is safe before use, if there any problem remember t contact with the after -service man.

### 2) Install the anesthesia screen

- Adjust the tabletop to a appropriate height, keep the table level.
- Insert the anesthesia screen into the fixing clamp on the guide rail, tighten the camping knob to fix the anesthesia screen.
- Put the anesthesia drape on the strut.
- Make sure the anesthesia screen is safe.



**Picture 8 diagram of install the anesthesia screen**



- The anesthesia screen can only with our company's fixing clamp.
- When installing the fixing clamps, make sure it is completely stuck on the guide rails on the operating table, there is no tilt, and the anesthesia screen will not slip or fall during use, causing personal injury or equipment damage.
- After install or adjust the fixing clamp, make sure the clamping knob tightened, otherwise anesthesia screen may slip or fall during use, cause personal injury or equipment damage.

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## Arm support

a) This Arm support can only equipped with our company's operating table ,use for place and tighten the arm of patients.



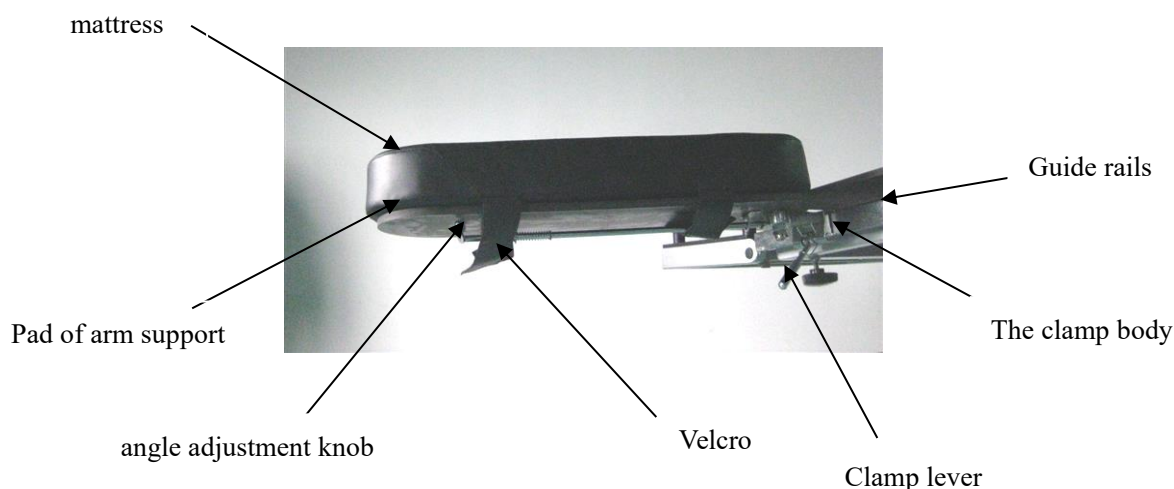
- Please install the arm supports after read this operating manual,make sure there are safe.
- The arm supports are just use for operating table ,do not use for other occasions.

b) check before using

Arm support don't need special maintenance ,but after prolonged use and the normal aging may affect accessorize,. Please make sure the arm supports are safe before use.If there have the phenomenon of aging or damage, please stop to use the arm supports, and contact with after-sales man to change the arm supports.

c) Install the arm support

1. Adjust the tabletop to a appropriate height, keep the table level.
2. One hand hold the pad of arm support ,another hand raise the clamp lever.
3. Tighten the clamp lever ,put it on the guide rails ,then loosen the clamp lever.
4. Pull back the angle adjustment knob, adjust the arm support to the appropriate place.
5. Place the mattress on the support plate, adjust the position after stick the Velcro.
6. Make sure the arm supports are safe.



**Picture 9 diagram of install the arm support**

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### Shoulder support

a) This shoulder support can only with our company's operating table ,use for support the shoulder of the patient.

b) Check before using

Shoulder support don't need special maintenance ,but after prolonged use and the normal aging may affect accessorize,. Please make sure the shoulder supports are safe before use. If there have the phenomenon of aging or damage, please stop to use the shoulder support, and contact with after-sales man to change the shoulder supports.

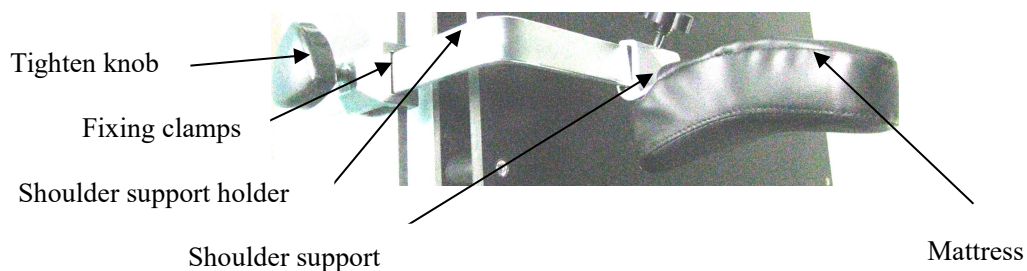
c) Install the shoulder support

1. Adjust the tabletop to a appropriate height, keep the table level.

2. One hand hold the shoulder support holder and insert it into the fixing clamp ,another hand tighten knob.

3. Install the mattress on the shoulder support.

4. Make sure the shoulder supports are safe.



**Picture 10 Diagram of install the shoulder support**

### Body support

a) This body support can only with our company's operating table ,use for support the body of the patient

b) Check before using Body support don't need special maintenance ,but after prolonged use and the normal aging may affect accessorize,. Please make sure the body supports are safe before use. If there have the phenomenon of aging or damage, please stop to use the body support, and contact with after-sales man to change the body supports.

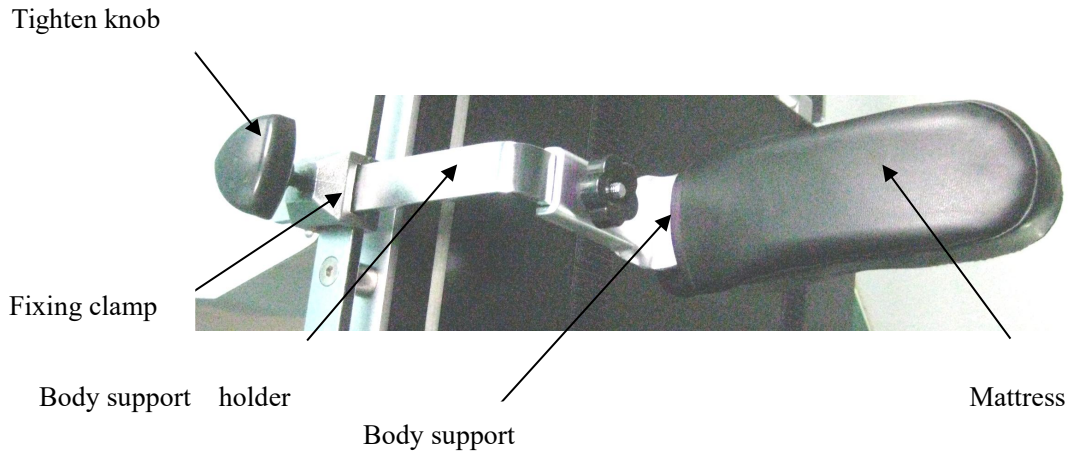
c) Install the body support

1. Adjust the tabletop to a appropriate height,keep the table level.

2. One hand hold the body support holder and insert it into the fixing clamp ,another hand tighten tighten knob.

3. Install the mattress on the body support.

4. Make sure the shoulder supports are safe.



**Picture 11 Diagram of install the body support**

### **Leg support**

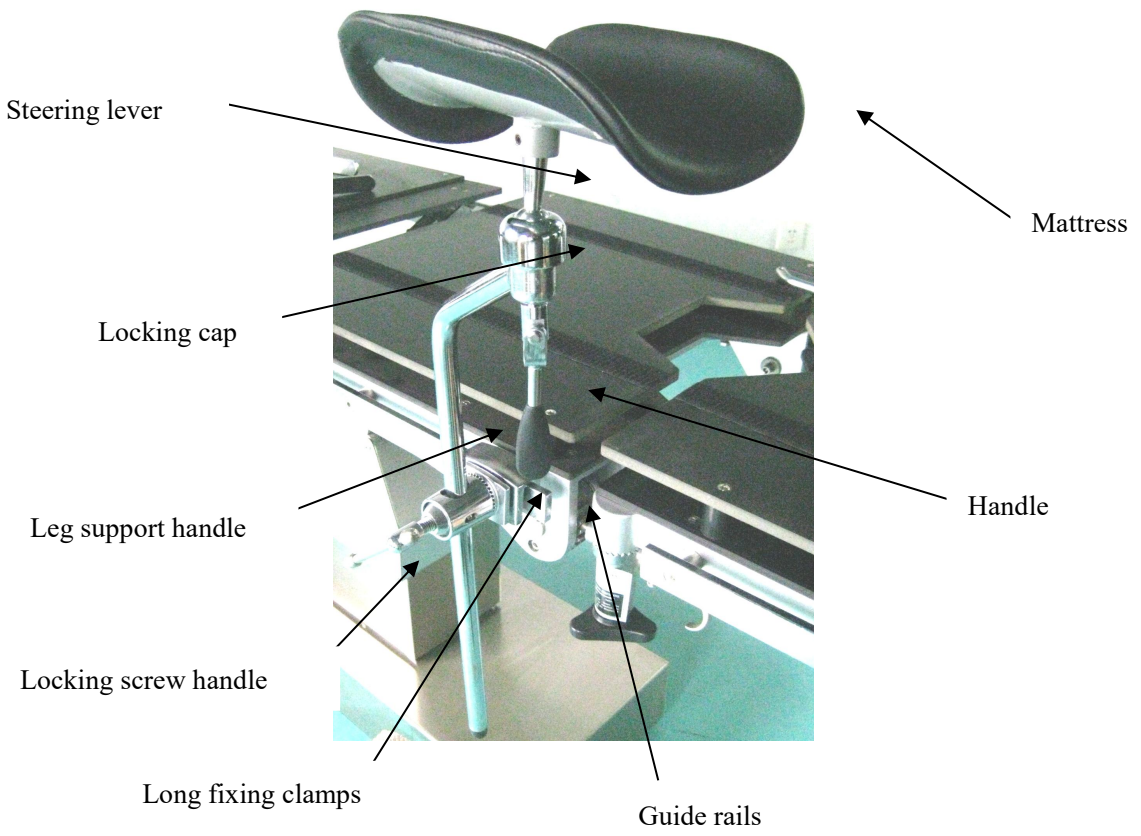
a) This leg support can only with our company's operating table ,use for support the leg of the patient.

b) Check before using

Leg support don't need special maintenance ,but after prolonged use and the normal aging may affect accessorize. Please make sure the leg supports are safe before use. If there have the phenomenon of aging or damage, please stop to use the leg support, and contact with after-sales man to change the leg supports.

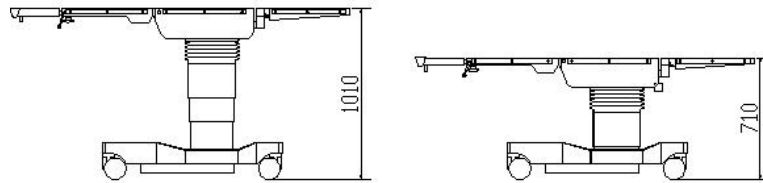
c) Install the body support

- 1) Adjust the tabletop to a appropriate height, keep the table level.
- 2) Install the long fixing clamps on the guider rails(The long slot inside the long fixing clamps should be card in the guide rail's screw washer).
- 3) One hand hold the leg support holder and insert it into the long fixing clamp and adjust to a proper height, another hand tighten locking screw handle..
- 4) Screw the locking cap into the external screw thread on the upper of the leg support, adjust the leg support to a proper height., then screw the hand shank .
- 5) Make sure the shoulder supports are safe.

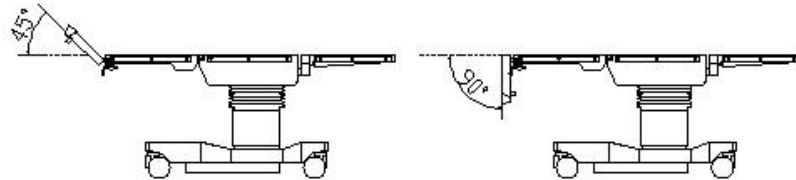


**Picture 12 Leg support installation diagram**

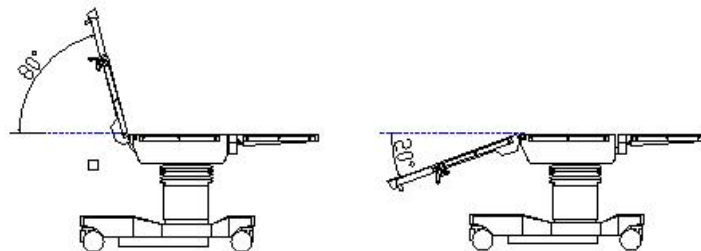
Tabletop elevation(up/down)



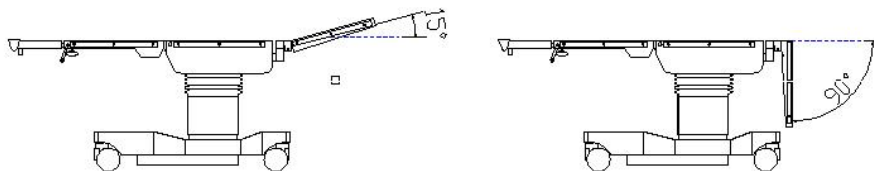
Head plate(up/down)



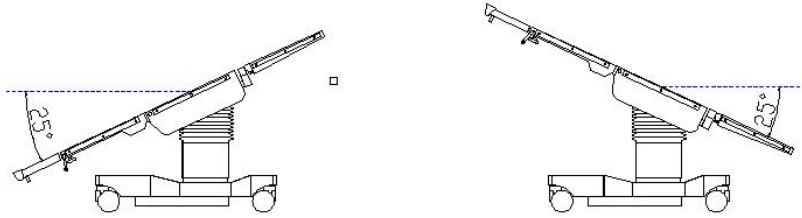
Back plate(up/down)



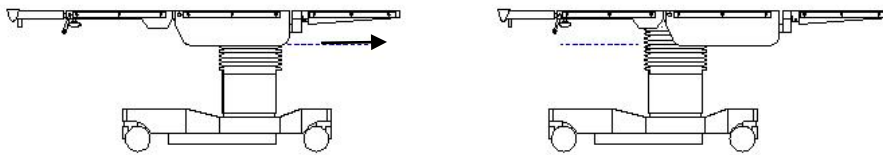
Leg plate(up/down)



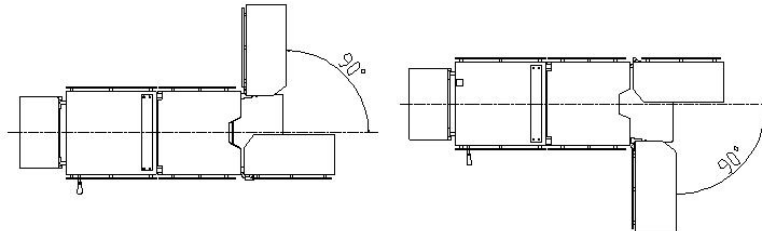
Trendelenburg/Anti-trendelenburg



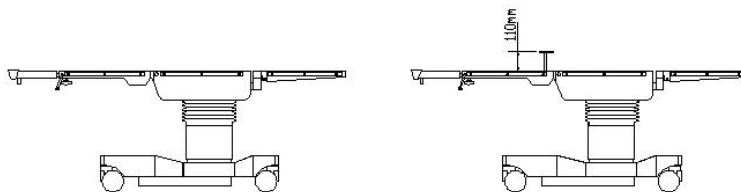
Horizontal sliding 350mm



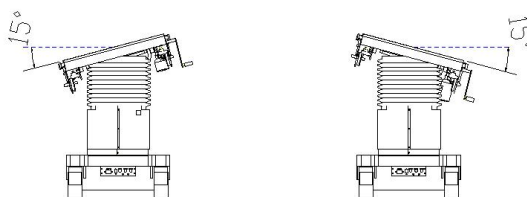
Leg plate outward



Kidney bridge(up/down)



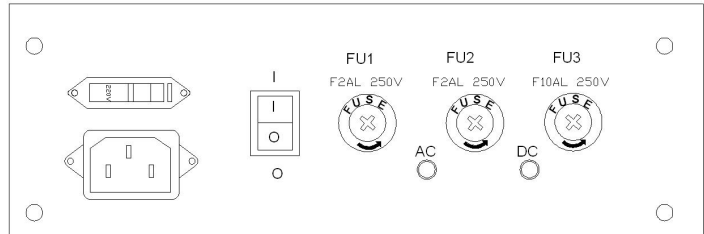
Lateral tilt(left/right)



## Picture of control panel

Please look at the picture 4:

- Power supply jack:100-240V IN AC socket;
- Switch “I” means “ON”  
“O” means “OFF”;
- Fuse :FU1 、FU2 、FU3 ;
- “C IN” means jack;



## Label on the table

This label in on the buttoners for the leg plate. It is used for introduce how to change the position of leg plates.

### 1.Normal leg plate

**VERTICAL POSITIONING**

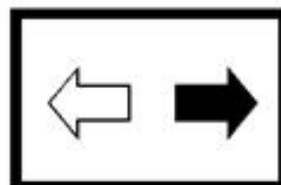
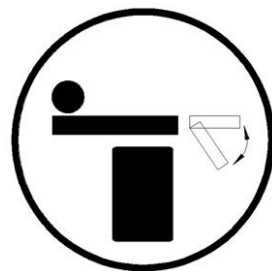
- Lift up slightly on the ending of leg plate.
- Pull the lock hook trigger outward longitudinally to reposition the plates.

**HORIZONTAL POSITION**

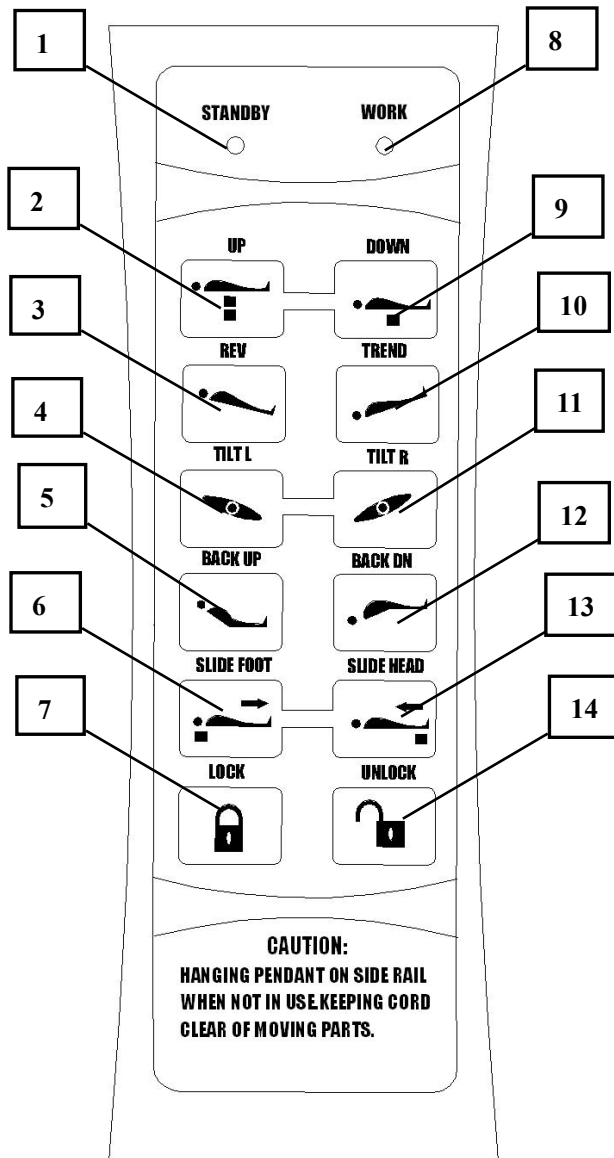
← loosen → fasten →

Loosen and fasten the turn button to reposition the leg plates as the direction of arrow shows

### 2.Gas spring leg plate



## Function of telecontroller



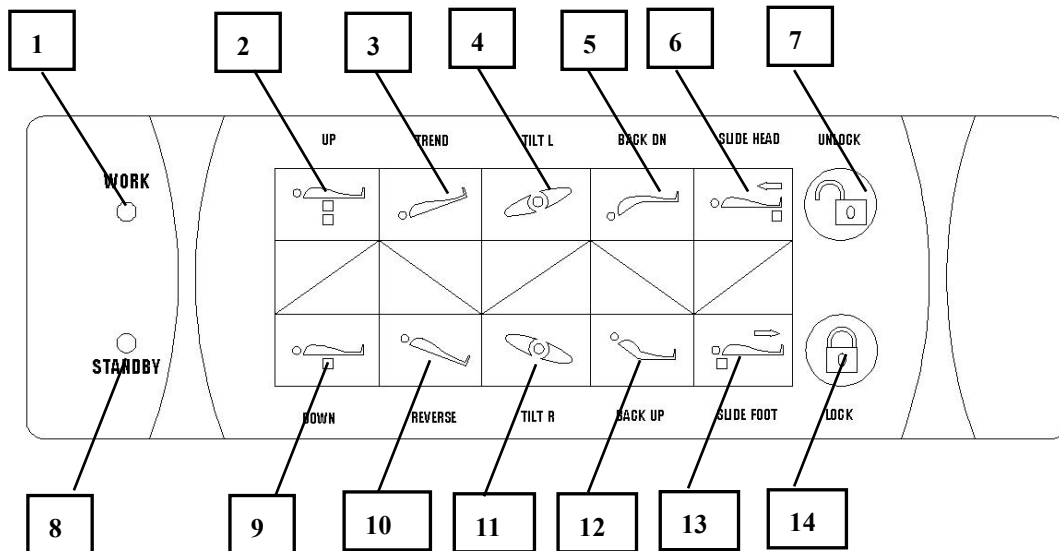
- 1 STANDBY**  
Operating table is in the ready mode.  
Green LED on.
- 2 UP**  
Raise the table top.
- 3 REVERSE**  
Reverse trendelenburg ( Foot down ).
- 4 TILT L**  
Tilt to the left.
- 5 BACK UP**  
Raise the back plate.
- 6 SLIDE FOOT**  
Move in the direction of the foot plate.
- 7 BRAKE LOCK**  
Can't move the operating table.
- 8 WORK**  
Operating table is in the work mode.  
White LED on.
- 9 DOWN**  
Lowers the table top.
- 10 TREND**  
Trendelenburg(Head down).
- 11 TILT R**  
Tilt to the right.
- 12 BACK DOWN**  
Lowers the back plate.
- 13 SLIDE HEAD**  
Move in the direction of the head plate.
- 14 BRAKE UNLOCK**  
Can move the operating table.



**Danger!**

Do not press two buttons at the same time!

## Optional control panel



### 1 WORK

Operating table is in the work mode.  
White LED on.

### 2 UP

Raise the table top.

### 3 TREND

Trendelenburg(Head down).

### 4 TILT R

Tilt to the right.

### 5 BACK DOWN

Lowers the back plate.

### 6 SLIDE HEAD

Move in the direction of the head plate.

### 7 BRAKE UNLOCK

Can move the operating table.

### 8 STAND BY

Operating table is in the ready mode.  
Green LED on.

### 9 DOWN

Lowers the table top.

### 10 REVERSE

Reverse trendelenburg ( Foot down ).

### 11 TILT L

Tilt to the left.

### 12 BACK UP

Raise the back plate.

### 13 SLIDE FOOT

Move in the direction of the foot plate.

### 14 BRAKE LOCK

Can't move the operating table.

## Clean out and disinfection

The cushion on the operating table are all removable .Head section and leg plates can be removed completely .This way they can easily be cleaned individually.

Stainless steel , sprain paint part and cushions of the operating table may only be cleaned using appropriate cleansing agents. The cushion should be cleaned twice by 75% alcohol and then use disinfectant and ultraviolet radiation for sterilization.

- Turn off the power after operations , raise the operating table to the minimum height and move seat and back section into horizontal position.
- If required,remove the cushion of the seat and back sections.



### **Attention!**

The cushion will deform if exposed to heat. The operating table, including its cushion ,must not be sterilized super heated steam.



### **Attention!**

Agents for disinfection of the patient's skin may cause discolorations on the cushions. Remove such disinfecting agents from the cushion in order to avoid such discolorations.



### **Attention!**

Disinfecting sprays may cause corrosion on mechanical parts,or create explosive mixtures inside the table components.For this reason,do not use disinfecting sprays!



### **Attention!**

Agents for disinfection of the patient's skin may cause discolorations on the cushion .Remove such disinfecting agents from the cushion in order to avoid discolorations.

# Maintenance

- Users should check the table and maintain it from time to time.
- When the table hasn't been used for long time, you need to check it before using.
- In order to prolong its using life and keep it in a good condition, you need to pay attention to the daily maintenance .
- You can not use caustic cleaner to clean the cushion after operations.
- Do not use industrial alcohol to clean the cushion, it will be react with the cushion.
- Please lower the lowest position after using.
- When it cannot work any more, the scrap of the equipment should comply with legal regulations.

# Common problems and solutions

## **Wrong operations**

problem: when you press only one button, but over one and wrong action worked

cause: the elements of the base become damp.

Solution: use gauze to dry it, and adopt 300V blow drier .

## **The table cannot work:**

cause1: disabled fuse .

cause2: the jack of controller has loosen.

solution1: replace fuse

solution 2 connect the power of controller with the table again

## **Some buttons cannot work:**

Cause 1: the button are out of work.

Cause 2: the jack didn't connect well.

Solution: you can replace the buttons or jack

# Main technical data

**Form 3: Main technical data**

Item		Basic Data
Trendelenburg	forward	$\geq 25^\circ$
	backward	$\geq 25^\circ$
Lateral tilt	Left	$\geq 15^\circ$
	Right	$\geq 15^\circ$
Head plate	Up	$\geq 45^\circ$
	down	$\geq 90^\circ$
Back plate	Up	$\geq 80^\circ$
	Down	$\geq 20^\circ$
Leg plate	Up	$\geq 15^\circ$
	Down	$\geq 90^\circ$
	Out	$\geq 90^\circ$
Kidney bridge		$\geq 110\text{mm}$
Translation		$\geq 350\text{mm}$

Input power:650VA

Product model	Accessories name and size				
	Anesthesia screen (diameter×length×width)	Shoulder support (length×width×thickness)	Arm support (length×width×thickness)	Body support (length×width×thickness)	Leg support (diameter×length)
Size	Φ12×600×526	185×185×6	550×155×9.5	138×126×6	Φ16×350

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# Packing list

## Form 4 packing list

NO.	Item	quantity	NO.	Item	Quantity
1	Anaesthesia screen	1 piece	7	leg plate (cushion)	2 piece
2	Shoulder support (cushion)	2 piece	8	cushion	1 piece
3	Body support (cushion)	2 piece	9	Foot plate (cushion)	2 piece
4	Arm support (cushion)	2 piece	10	Fixing clamp	2 piece
5	Leg support (wrapper)	2 piece	11	Controller	1 piece
6	Head plate (cushion)	1 piece	12	Power line	1 piece