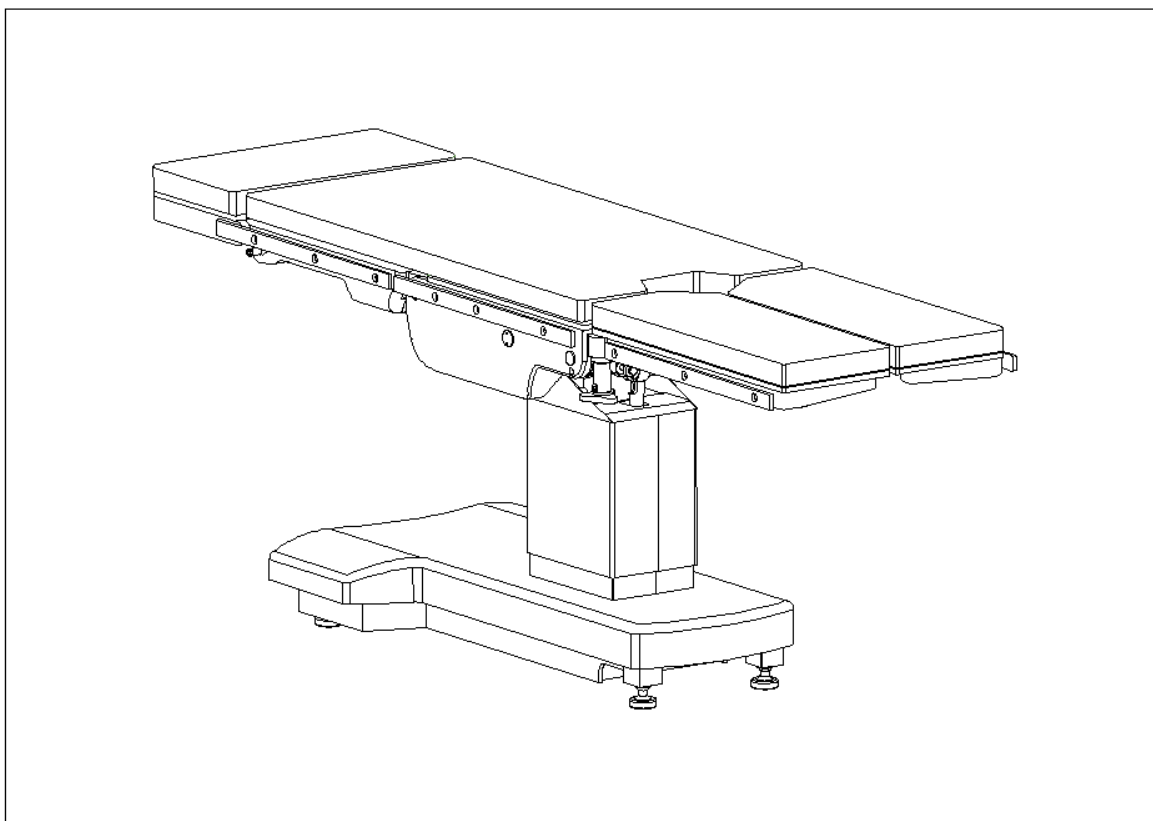


Operating manual

HFEOT99C 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 following pages. And some technical data and information about the product.

In case of any question, please contact after-sales service personnel or distributor.

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

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

Symbols used in the text



Danger!

This symbol will appear whenever safety instruction 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 time!

**Attention!**

never press one button over 2min!

**Attention!**

All the electric elements, hydraulic elements and oil pump are in the base of the table. When you repair them, you should open the cover of the base firstly, make sure you have cut off the electricity and power before doing this;

**Attention!**

Method of open the base: adjust the tabletop to the highest position, screw off the screw, and then take it apart from the table;

**Attention!**

When you open the cover, Please remove the collect of line pipe firstly;

**Attention!**

Screw off the 4 screws, take t, adjust the tabletop to a little higher, and lock the base, then you can start repairing.

**Attention!**

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

Description

Use and brief introduction

The product belongs to class I, type B. Non AP or APG device , IPX4 device, continuous device. And possesses application part.

HFEOT99C operating table is widely used in various surgical operations, which is fit for C-arm and X-Raying photographing.

The table adopts electric hydraulic pressure and telecontroller to finish all the actions.

High degree of automation and low noise, reliable, key parts are imported.

Be sure to read the instruction carefully before using, and keep it.

General content

Basic data

The technical data should look at Form 1

Form 1: basic data

unit:mm

basic data Model	length	Width	Height range	Distance of elevation
	L	B	h min	S
HFEOT9 9C	≥1960	500±20	690±50	≥400

Gross weight、net weight、 volume

Gross weight:340kg, net weight:290kg, Volume (long×width×height)
1400mm×750mm×960mm.

Safe work loading capacity of HFEOT99C

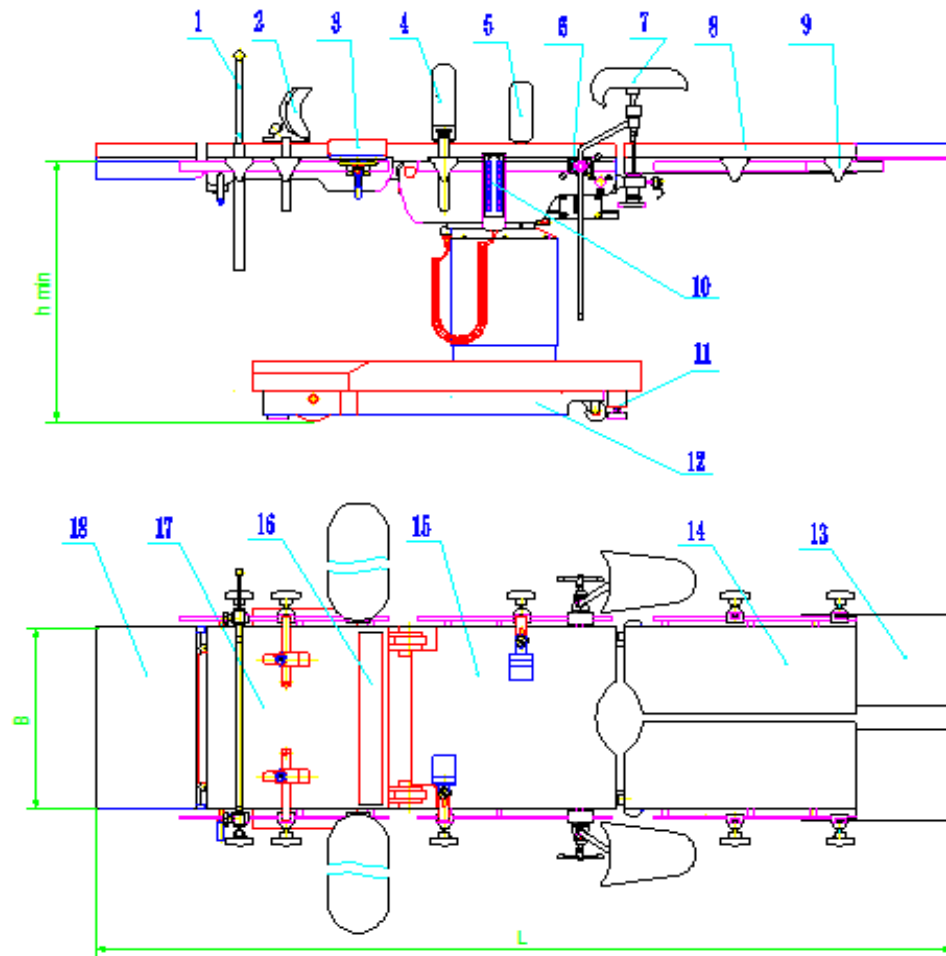
The safe working load of the table is 250kg

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-anesthesia screen ; 2-shoulder support ; 3-arm support ; 4-body support(long); 5-body support(short); 6-fixing clamp; 7-leg support; 8-cushion; 9-fixing clamp; 10-Hand remote; 11-Base Locking; 12-base; 13-foot plate; 14-leg plate; 15- buttocks plate; 16-waist plate; 17-back plate; 18-head plate

Picture 2 Diagram of structure HFEOT99C Electric operating table

Feature

- You can adjust the height of the table when needed (look at picture 2) , convenient position for operating personal.
- The tabletop and base adopt frame construction, the cushion won't move when the table works, and then 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℃~55℃
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.
- 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.

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 after-sales service personnel or distributor.

Power requirements

supply voltage	$\sim 110V \pm 10\%$
supply frequency	$60Hz \pm 2\%$
Power capacity	$\geq 1kw$

using

Ambient temperature	$10^{\circ}C \sim 40^{\circ}C$
atmospheric humidify	$\leq 80\%$
Atmospheric pressure	$760\text{ hPa} \sim 1060\text{ hPa}$

- Please pay attention to supply frequency、electric tension and normal impedance.
- 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 telecontroller in the right place.
- Clean the table after operations.

Method of using operation table

Preparation before using

- electric tension: 110V、frequency : 60Hz;
- No objects exist that affect the operations;
- Confirm if all the power lines are connected well, the switch is in “0” condition;
- Move the table to the right place you need;
- Connect the Hand remote 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 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!**

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

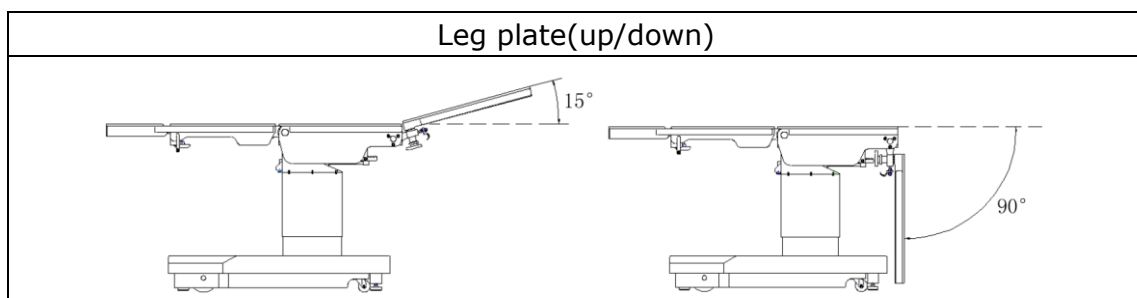
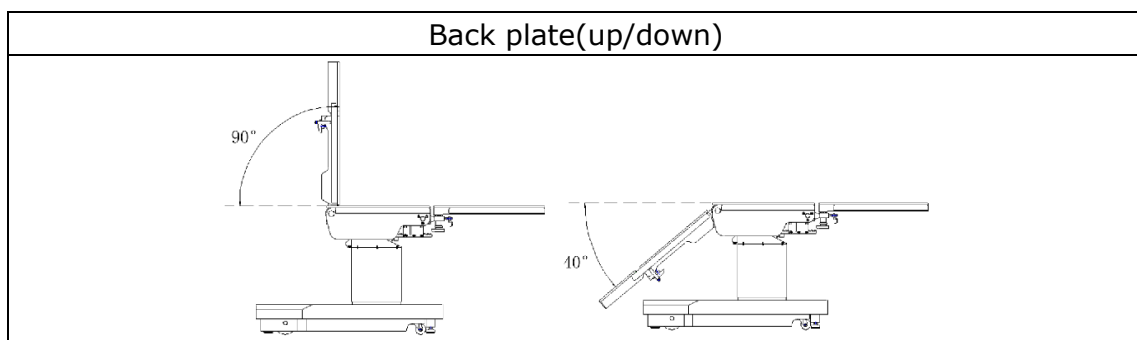
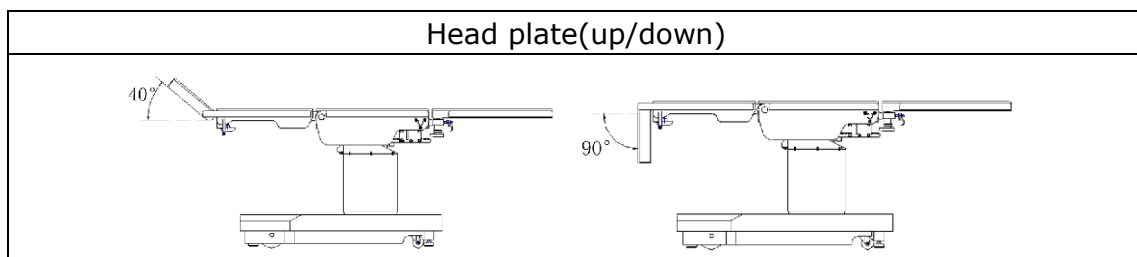
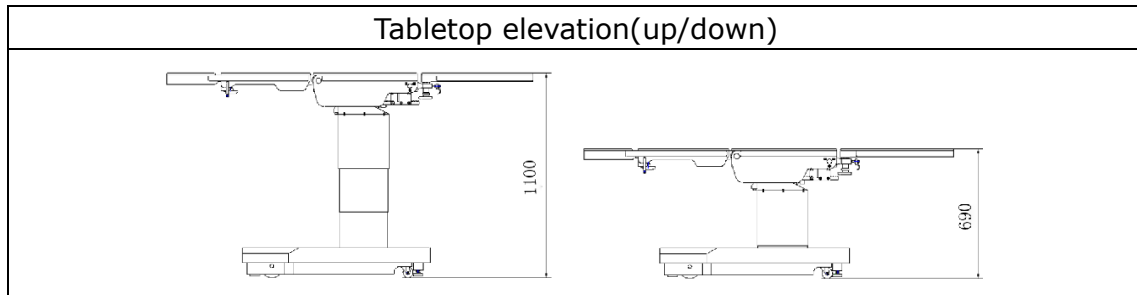
- Adjustment of leg plate

Slacken the handle between leg plate and buttocks plate, put it to a proper place and screw up the handle.

- Fixing of accessories

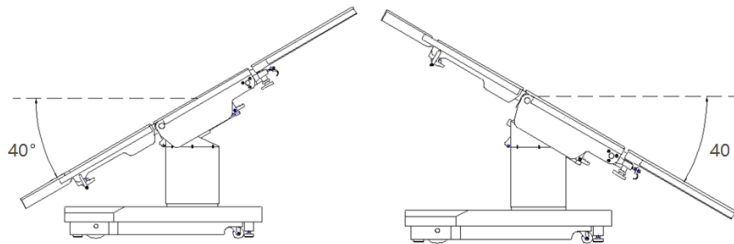
There is rail on the both side of the table, you can use the fixing clamp the set up all the accessories.

Movements diagram of HFEOT99C

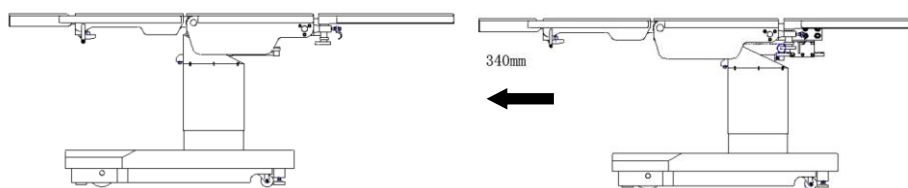


Movements diagram of HFEOT99C

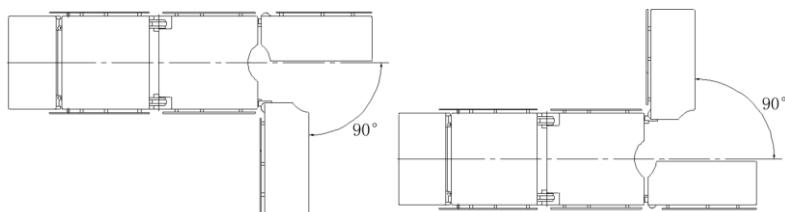
Trendelenburg/Anti-trendelenburg



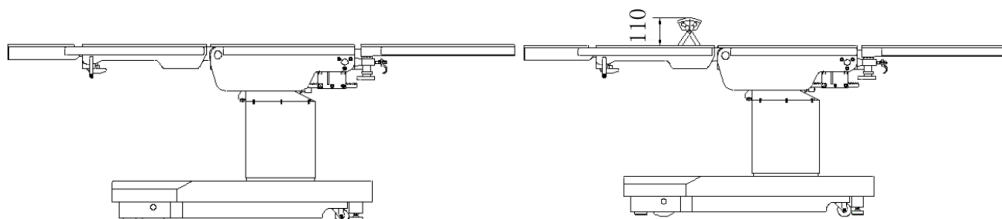
Horizontal sliding



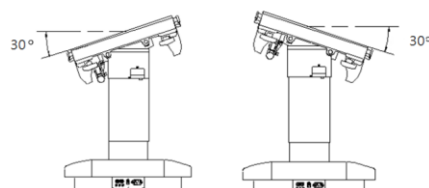
Leg plate outward



Kidney bridge(up/down)




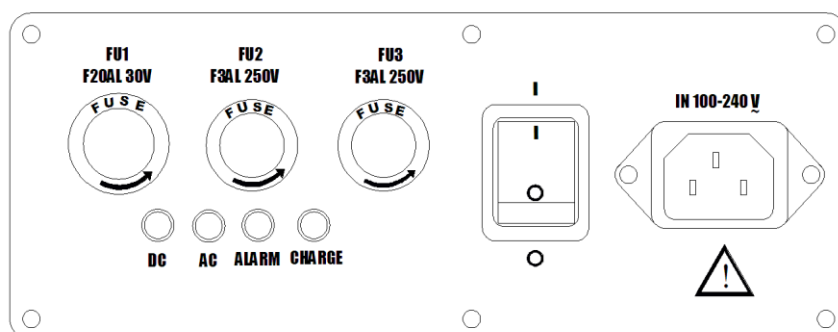
Lateral tilt(left/right)



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;
- "  "Attention.



Label on the table

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

VERTICAL POSITIONING

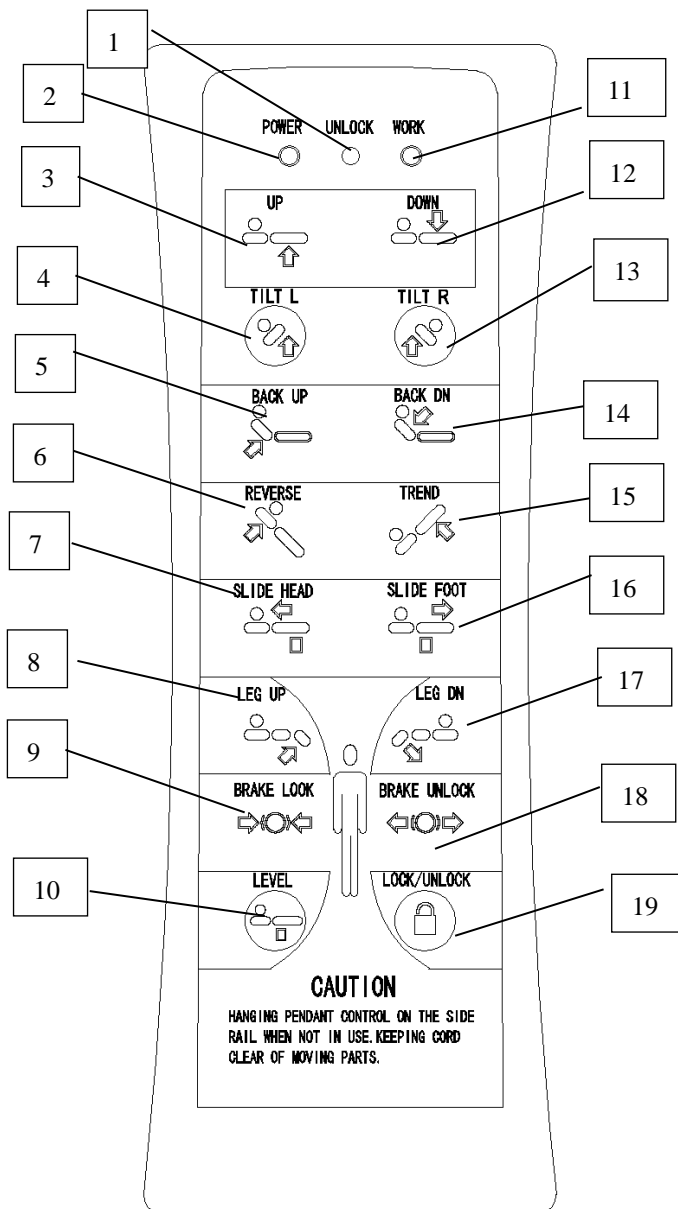
- Lift up slightly on the ending of leg plate.
- Pull the lock hook trigger outward longitudinally to reposition the plates.

HORIZONTAL POSITION


loosen fasten

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

Function of Hand remote



1 UNLOCK

The hand remote is unlock, you can use hand remote when the light on.

2 POWER

The power is on.

3 UP

Raise the table top.

4 TILT L

Tilt to the left.

5 BACK UP

Raise the back plate.

6 REVERSE

Reverse trendelenburg (head down).

7 SLIDE HEAD

Move in the direction of the head plate.

8 LEG UP

Raise the electric leg plate part.

9 BRAKE LOCK

Can't move the operating table.

10 LEVEL

One button to the 0 position.

11 WORK

Operating table is in the work mode.

12 DOWN

Lowers the table top.

13 TILT R

Tilt to the right.

14 BACK DOWN

Lowers the back plate.

15 TREND

Trendelenburg(foot down).

16 SLIDE FOOT

Move in the direction of the foot plate.

17 LEG DN

Lower the electric leg plate part.

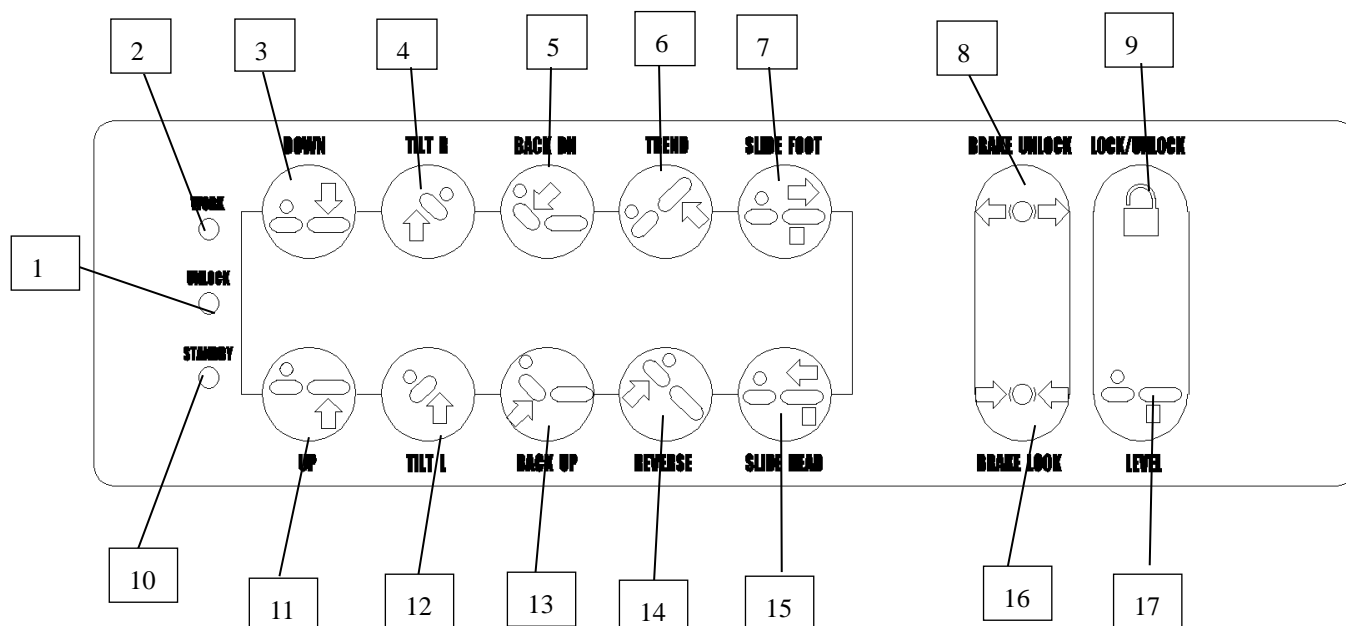
18 BRAKE UNLOCK

The operating table can move now.

19 LOCK/UNLOCK

Lock/unlock the hand remote, the operating table in the standby/work mode.

optional control panel on the elevation column



1 UNLOCK

Unlock the hand remote,the operating table can be control.

2 WORK

Operating table is in the work mode.

3 DOWN

Lowers the table top.

4 TILT R

Tilt to the right.

5 BACK DN

Lowers the back plate.

6 TREND

Trendelenburg (foot down).

7 SLIDE FOOT

Move in the direction of the foot plate.

8 BRAKE UNLOCK

The operating table can move now.

9 LOCK/UNLOCK

Lock/unlock the hand remote,the operating table in the standby/work mode.

10 STANBY

The power is on.Table standby.

11 UP

Raise the table top.

12 TILT L

Tilt to the left.

13 BACK UP

Raise the back plate.

14 REVERSE

Reverse trendelenburg (head down).

15 SLIDE HEAD

Move in the direction of the head plate.

16 BRAKE LOCK

Can't move the operating table.

17 LEVEL

One button to the 0 position.

**Danger!**

Do not press two buttons at the time !

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 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!

**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.
- There is enough oil in the oil pump when leave the factory. If you find the oil is not enough, you can add N46 oil.
- In order to prolong its using life and keep it in a good condition, you need to pay attention to the daily maintenance and add lubricant oil.
- 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 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 Hand remote has loosen.

solution1: replace fuse

solution 2 connect the power of Hand remote 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

Oil is not enough

Problem: the tabletop cannot rise to highest position.

solution: open the oilcan, add the oil to the 3/5 of the total volume

Main technical data

Form 3: Main technical data

Item		Basic Data
Trendelenburg	forward	40°
	backward	40°
Lateral tilt (left/right)		30°
Head plate	Up	≥60°
	down	≥85°
Back plate	Up	≥85°
	Down	≥40°
Leg plate	Up	15°
	Out	90°
	down	90°
Kidney bridge		100 mm
Horizontal sliding		≥340mm







Input power:650VA

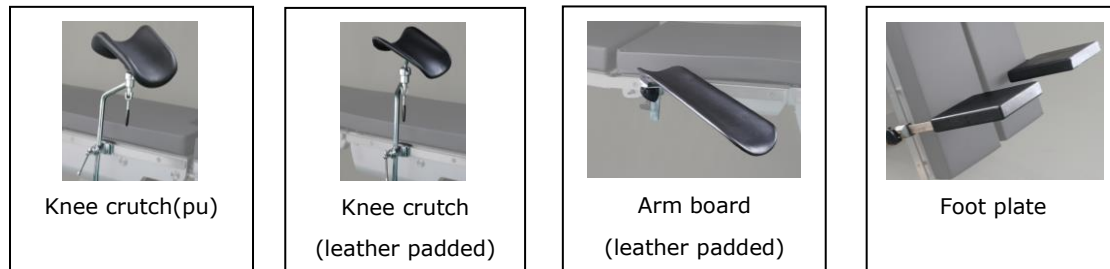
Packing list

Form 4 packing list

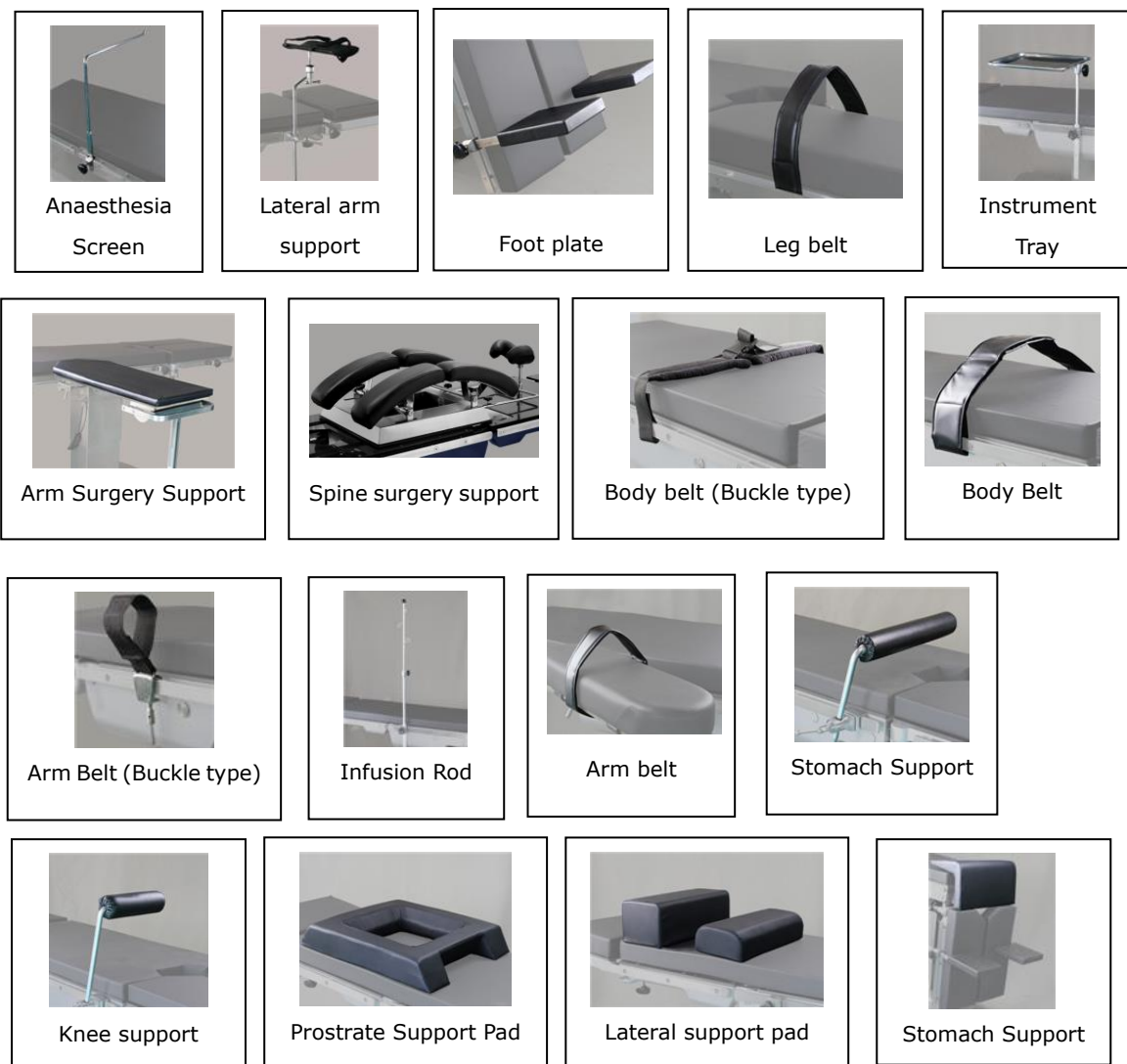
NO.	Item	quantity	NO.	Item	Quantity
1	Anaesthesia screen	1 piece	9	Foot plate	2 pieces
2	Shoulder support	2 pieces	10	Long Fixing clamp	2 pieces
3	Body support	2 pieces	11	Fixing clamp	7 pieces
4	Arm board	2 pieces	12	Hand Remote	1 piece
5	Leg support	2 pieces	13	Power line	1 piece
6	Head plate	1 piece	14	oilcan (with oil)	1 piece
7	leg plate	2 pieces	15	User Manual	1 piece
8	Mattress	1 Set	16		

Appendix I : Universal Accessories

			
Arm board (pad)	Shoulder support(pu)	Shoulder support	Body support
			
Body support	Body support	Universal Clamp	Universal Clamp
			
Universal Bar Clamp	Universal Bar Clamp	Standard Bar Clamp	Standard Bar Clamp



Appendix II : Optional Accessories



Appendix II : Optional Accessories



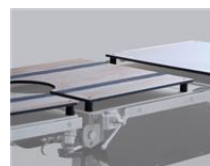
Head rest



Head ring



External kidney bridge



X-ray Board



Skull Clamp



Skull clamp 1004



Orthopedic Traction 1005



Orthopedic Traction 1006



Carbon fiber orthopedic



Pubis/sternum Support



Base unit and head rest



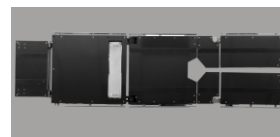
Rectal/Sacrum Surgery



High level arm board



High level Lateral support



Carbon Fiber tabletop



Arthroscopy knee immobilizer



Shoulder Surgery device

Appendix III : HFEOT99C unique Optional Accessories



Optional override panel with
reposition function



Optional powered leg
plate

HFEOT99C with all standard accessories



Appendix II : Optional Accessories

**Picture 3 : HFEOT99C with all standard accessories
(Double layer, Double control system is optional)**