

Q-400 Exam Table

User manual



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1 Summary

1.1 Products name,Model,specification and the meaning

1.1.1 Product name: Electric mechanical obstetric chair

1.1.2 Model、 Specification and the meaning

Model :Q-400

1.1.3 EMC Specification

Except Harmonic current emissions, Voltage Fluctuation and Flicker,the other items as below are all Inspection qualified by certifying authority.

1.1.3.1 conducted emission

1.1.3.2 radiated emission

1.1.3.3 Harmonic current emissions

1.1.3.4 Voltage Fluctuation and Flicker

1.1.3.5 ElectroStatic Discharge

1.1.3.6 Radiofrequency electromagnetic field radiation immunity

1.1.3.7 Electrical fast transient pulse group disturbance immunity

1.1.3.8 Surge (impact) immunity

1.1.3.9 Rf field - induced conductivity disturbance immunity

1.1.3.10 Power frequency magnetic field immunity

1.1.3.11 Voltage sag, short interruption and voltage change immunity

1.2 The scope of products

Electric mechanical obstetric chair (hereinafter referred to as the obstetric chair) applies to the support to the patient body during the operation.

Q-400 is belong to the gynecological table.

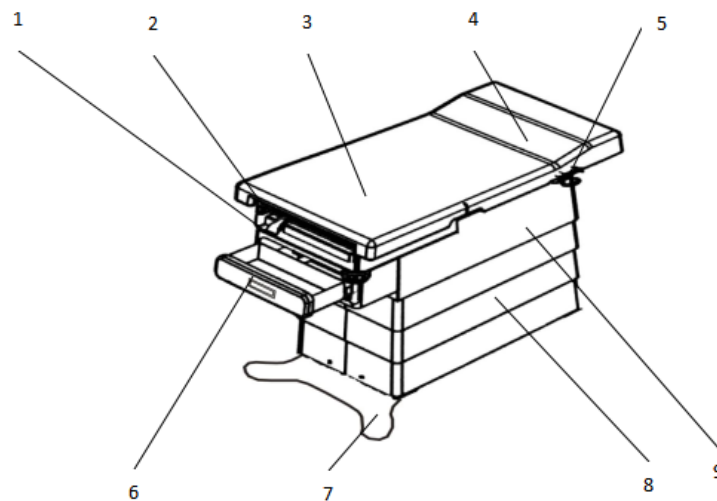
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1.3 Product performance, the main structure and composition

1.3.1 Product main structure and composition

The product belongs to class I ,type B and IPX4 device. The obstetric chair is composed of table body(include support parts 、 drive parts and control parts)and accessories.

Q-400 is formed by tabletop(back plate,seat plate ,table body,assistance plate ,drawer and foot pedal),elevation column, base, linear actuator, drive parts, foot switch and accessories (waste basin).



Picture 1 Q-400 electric mechanical obstetric chair diagram

1-Assistance plate; 2-foot pedal ;3-seat plate; 4-back plate;5-gas spring wrench;
6-drawer; 7-base; 8-elevation column; 9-table body;

1.3.2 The material of the support part

Q-400 tabletop:Q235 frame;Polyurethane foam(assistance plate is soft mattress);table body:Q235 steel sheet material ; elevation column:Q235 rectangular tube, steel coating cover; Base:Q235 steel sheet material;

1.3.3 Product performance

Q-400 adopts electric motor control system,the movement of the table can controlled by

the hand remote, can meet kinds of requirement of operation position.

1.3.3.1 Basic dimension

The technical dimension should look at from 1.

Form 1 basic data				Unit: mm
basic data Model	Length	Width	Lowest height of tabletop	Distance of elevation
	L	B	h min	s
Q-400	≥ 1400	720 ± 20	460 ± 50	390

1.3.3.2 Basic data

The technical data should look at from 2.

Form 2 basic data	
Basic data Item	Model Q-400
Seat plate up	7°
Back plate up	70°
Assistance plate	$\geq 410\text{mm}$
Foot pedal movement range	350mm
Foot pedal up	105°
Foot pedal angle	45°






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2 Words, signs and symbol


2.1 The words and symbols on the name board of the obstetric chair








Form 3 The statement of the word and symbols

Words and symbols	meaning
	Attention! Please check the attached documents.
IPX4	Splash proof, The column is unaffected by the water.
Type I	Rely on basic insulation and protective equipment grounding conductor may be additional safety precautions accessible parts connected devices.
Type B or 	Type B applied part
	Refer to the operating manual
	EC mark of safety certification
	When you need discard the products, please send to proper place, so the products can be recycling.

2.2 shipping marks



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Form 4 The statement of the shipping marks

symbols	meaning
	Should keep the temperature in the limits during the keeping and transportation period.

	Should keep the humidity in the limits during the keeping and transportation period.
	Should keep the atmospheric pressure in the limits during the keeping and transportation period.
	Should not staked more than n cases in one place during the keeping and transportation period.
	Fragile goods ,handle with care.
	Should be vertical transport during the transportation period.
	Keep the water away.
	Do not roll the package during the transportation period.

2.3 symbols in the manual

Form 5 the statement of the symbols in the manual

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

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3 obstetric chair gross weight ,net weight and volume

Q-400 gross weight,net weight and volume please refer to the form 6.

Form 6 The G.W.,N.W and Volume of the table

Model	Gross weight(kg)	Net weight (kg)	Volume (mm)
Q-400	230	180	1490×810×720

4 Maximum working load

The Maximum working load of the table is 220KG.

5 Using attentions

For Q-400,it need special precaution for the EMC part,please install and use the obstetric chair according to the information in this manual.

Portable and mobile type Radio frequency communication equipment may influence the obstetric chair .

Please use the cable and accessories equipped with obstetric chair.Please refer to the form 7.

Form 7 cable information

Cable	Model	Length
Power line (10A)	/	3 meter
Hand remote signal line	/	3 meter

5.1 Attention

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- The table should be kept in a clean place, never put it in the places where influenced by atmospheric pressure, temperature, humidity, aeration, sunshine , or dust and sulfur.
- Be careful when you transport the table.
- The table should be kept separately from chemicals.

- d) Please pay attention to the supply frequency、electric tension and nominal impedance.
- e) Should choose anti-static cushion.
- f) Except the back up transducer and cable from the equipment manufacturer.The spare parts ,transducer and cable from other manufacturer may result in the increase of emission of the equipment and the reduce of noise immunity.
- g) Do not put other device on the chair when use and please pay attention to the chair when other device near it.
- h) Basic performance.
Please refer to form 8.

Form 8 basic performance


Name	details
Elevation	Tabletop elevation,back plate up and down.

- i) Statement from manufacturer,please refer to form 9.

Form 9 Guidelines and manufacturer statements

Guide and manufacturer statement——electromagnetic emission			
The equipment excepted use in the electromagnetic environment as below,the buyer or user should ensure Exam Table use in this electromagnetic environment.			
Emission test	Conformance	Electromagnetic emission-Guide	
Radio-frequency emission GB4824 (CISPR 11)	Group 1	he equipment only use the radio-frequency for the interna function, therefore, it's radio-frequency emission is very low,and have small probability of interference to the nearby electronic.	
Radio-frequency emission GB 4824 (CISPR 11)	Type A	The equipment can be used in the device non-household and household and not directly connect public low-voltage supply net work	
Harmonic emission GB17625.1	Comply		
Voltage fluctuation/scintillation GB 17625.2 (IEC 61000-3-3)	Comply		
Guide and manufacturer statement——Electromagnetic Immunity			
The equipment excepted use in the electromagnetic environment as below,the buyer or user should ensure Exam Table use in this electromagnetic environment.			
Electromagnetic Immunity test	IEC60601 The test level	The conform level	Electromagnetic environment-guide
Electrostatic discharge (ESD) GB/T17626.2 (IEC61000-4-2)	±6kV Contact discharge ±8kVair discharge	±6kV contact ±8kV air	The ground should be wood, concrete or ceramic tile,If the ground covered with synthetic material, than the relative humidity should reduce 30%.
Electrical fast	±2kV pair power line	±2kV pair power line	Net power supply should reach the

transient burst GB/T 17626.4 (IEC61000-4-4)	±1kV pair input/output line	Not comply	quality requirement that can be used in the typical commercial or hospital environment.
Surge GB/T 17626.5 (IEC61000-4-5)	±1kV line to line ±2kV line to ground	±1kV ±2kV	Net power supply should reach the quality requirement that can be used in the typical commercial or hospital environment.
The restarting control, short interruption and change of the voltage on the power supply input line. GB/T 17626.11 (IEC61000-4-11)	< 5%UT lasting 0.5 period (on UT, the restarting control > 95%) 40%UT lasting 5 period (on UT, the restarting control > 60%) 70%UT lasting 25 period (on UT, the restarting control > 30%) < 5%UT lasting 5s (on UT, the restarting control > 95%)	< 5%UT lasting 0.5 period (on UT, the restarting control > 95%) 40%UT lasting 5 period (on UT, the restarting control > 60%) 70%UT lasting 25 period (on UT, the restarting control > 30%) < 5%UT lasting 5s (on UT, the restarting control > 95%)	Net power supply should reach the quality requirement that can be used in the commercial or hospital environment. If the equipment should be continuous operation during the power interruption period, then recommend the equipment should with Uninterruptible power supply or battery.
power frequency magnetic field (50/60Hz) GB/T 17626.8 (IEC 61000-4-8)	3 A/m	3 A/m	Power frequency magnetic field should have the power frequency magnetic field level features in the typical commercial or hospital environment.
Note: UT is the ac power grid voltage before the test voltage.			
radio frequency transmission GB/T 17626.6 (IEC61000-4-6) radio-frequency conduction GB/T 17626.3 (IEC61000-4-3)	3 V (virtual value) 150kHz - 80MHz 3 V/m 80MHz - 2.5GHz	3 V (virtual value) 3 V/m	Portable and mobile type radio frequency communication equipment should not too close with the equipment than the isolation distance, include the cable. This isolation distance is calculate by the the corresponding formula and the transmitter frequency. $d = 1.2\sqrt{P}$ 150kHz-80MHz $d = 1.2\sqrt{P}$ 80MHz-800MHz $d = 2.3\sqrt{P}$ 800MHz-2.5GHz In the formula: P--Refer to the maximum rated power output of the transmitter

			<p>offered by the transmitter manufacturers, use watt(W) as the unit.</p> <p>d—as the recommend distance, use meter (m) as the unit.</p> <p>The field strength of the stationary type RF transmitter confirm by the Electromagnetic site survey a,in each frequency range all should lower than the coincident level b.</p> 
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Note 1: on the 80MHz and 800MHz frequency,Using high frequency formula.

Note 2: These guideline may not fit for all the situation, electromagnetic propagation is influenced by buildings,object and the reflective and absorption human body.

a The field strength of the stationary transmitter ,such as radio telephone(Cellular/cordless) and the ground mobile radio base station,Amateur radio,FM radio and television broadcasting all can not be predict accurately.In order to pacify stationary RF transmitter electromagnetic environment ,should consider the Electromagnetic site survey. If the measured field strength of the equipment is higher than the applicable radio frequency (RF) level,then should observe the equipment to verify its normal operation.If it is show abnormal performance,then the supplement measure is necessary,such as adjust the direction or place of the equipment.

B During the 150kHz-80MHz frequency range, the field strength should lower than 3V/m.

The recommended isolation distance between the portable and mobile type radio frequency communication equipment and the equipment.

If the equipment Expected use in the electromagnetic environment that the radio frequency radiation harassment is be controlled,according to the maximum rated output power of the communications equipment ,the buyer and user can adopt the recommended minimum distance between the easily portable and mobile radio communication equipment (transmitter) with the equipment as below to prevent electromagnetic interference.

Transmitter maximum rated output power (W)	isolation distancefor different frequency of the transmitter /m		
	150kHz - 80MHz $d = 1.2\sqrt{(P)}$	80MHz - 800MHz $d = 1.2\sqrt{(P)}$	800MHz - 2.5GHz $d = 2.3\sqrt{(P)}$
0.01	0.12	0.12	0.23
0.1	0.38	0.38	0.73
1	1.2	1.2	2.3
10	3.8	3.8	7.3
100	12	12	23

For the Transmitter maximum rated output power listed in the form,the recommended isolation distance d,use meter(m) as the unit,can be determined by the corresponding formula of transmitter frequency field.The P is the maximum rated power output of the transmitter offered by the manufacturer,use watt(W) as the unit.

Note 1: on the 80MHz and 800MHz frequency,Using high frequency formula.

Note 2: These guideline may not fit for all the situation, electromagnetic propagation is influenced by buildings,object and the reflective and absorption human body.

5.2 Attentions before using

- a) Please read the instruction before using. People who doesn't know the operating method is forbidden to use.
- b) Check the switch , and be sure they can work.
- c) Please confirm all the power line are connected aright, safely.
- d) If the external conductors have problems during installation, the device must be run by the internal power supply.
- e) When it work with high frequency surgical equipment, the equipment should comply with GB9706.1.
- f) Please operate all the function before use ,if the table stored a long time.

5.3 Using attention

- a) Please check the obstetric chair from time to time;
- b) Once found it is out of work, Exam Table is equipped with emergency button;Press emergency button table will be stopped;when you need restore the table,rotate clockwise the button 45° then release, the pressed part will spring up;
- c) Make sure that the patient won't touch the table.
- d) Please don't take them down when they are out of work, and contact the serviceman in time .
- e) When change the fuse, you should turn off the power;
- f) It should be separated from the magnetic field when using.
- g) Make sure the obstetric chair tops and accessories can not be contact with the patient and the user' s skin directly.

5.4 Attention after using

- a) To return to the former condition, and turn it off, cut off the electricity supply;
- b) Put the hand remote in the right place;
- c) Clean the table after operations.

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5.5 Contraindication: not have

6 Clean out, disinfection and sterilization

6.1 Clean out

- a) Turn off the power and unplug the 3-wire power cord before cleaning.
- b) The mattress should be cleaned by a moist rag which contains a few cleanser, then dry by a clean rag.

6.2 Disinfection

- a) Please use the disinfectant without ethyl alcohol, the disinfectant with acetaldehyde is recommended.
- b) Before installing the mattress, please make sure the mattress and sticker are dry.



- Remember to adjust the obstetric chair to the lowest position before or after cleaning and disinfection.

6.3 Available cleanser/disinfectant

- a) Weak alkaline solution (soapy water)
- b) Ethyl alcohol
- c) Quaternary compounds
- d) Guardian compounds

6.4 Not available cleanser/disinfectant

- a) Alcohol-based cleanser/disinfectant
- b) Chlorine or can release chlorine gas cleanser/disinfectant



- Please remember to clean /disinfect by the way in this manual.
- Do not use the cleanser/disinfectant near the high frequency surgical equipment, to avoid the risk of fire.



- Do not use any mechanical cleaning / disinfecting process.
- Improper cleaning / disinfection methods may cause damage to the device.
- Take appropriate amount of detergent for cleaning, and cloth to remove excess with a dry cleaner.
- Do not spray the cleaning / disinfectant on joints or crevices directly.
- Do not use high-pressure cleaning / disinfection the units.
- Do not use polish or steel cleaning appliances,when Clean/ disinfect the stainless steel surface.

7 Method of operation

7.1 Preparations before using

- a) electric tension:220V、 frequency :50Hz;
- b) No objects exist that affect the operations;
- c) Confirm if all the power lines are connected well;
- d) Please insert the lead out plug socket of the hand remote on the rabbit;
- e) Please check the power supply before turning it on;
- f) Lock the base of the table;
- g) Fix up the accessories according to the picture.
- h) The table adopts short-time work, attention: never press one button over 2min.

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7.2 Operation method

7.2.1 Back plate adjustment


One hand hold the back plate and another one press the gas spring handle on the side of back plate. When the gas spring open, adjust the back plate in the position you want; When you release the gas spring handle, the back plate can not move and will be locked. Please pay attention that it need 2 hands when you adjust the angle of back plate.


7.2.2 Seat plate adjustment

When you need up the seat plate, one hand hold the seat plate and another one insert the support to the fixed fastening notches.

When you need lay flat the seat plate, hold the seat plate and put the support behind the seat plate. Then release the seat plate.

7.2.3 Table elevation

Press the button " " on the hand remote, the chair top will be elevated, release the

button when you want to stop the elevation; press button " ", chair top goes down, release the button when you want to stop .

7.2.4 Assistance plate

Hold the assistance plate, the assistance plate can be move out.

7.2.5 Foot pedal

Pull out the foot pedal, turn over the foot pedal . The foot pedal can be adjust into three angle in the horizontal direction.

7.2.6 Roll handle

The roll handle is in the behind of back plate. It can be take out and install the roll papers.

8 Inspection and maintenance

8.1 Inspection

Before use the obstetric chair you should check the the following items each time(at least once a day):

- 1) The cleaning/disinfection of the obstetric chair before using.
- 2) The lock system of the obstetric chair.
- 3) The completeness of the mattress.
- 4) The mattress fixed on the obstetric chair.
- 5) The security of the electrical and mechanical components.
- 6) All the function is working normally.

8.2 Maintenance

8.2.1

In order to prolong its service life and the flexible of the obstetric chair ,you need to pay attention to the daily maintenance of the obstetric chair and each of the movable portion should always be filled with oil.

8.2.2

After the surgery,do not clean the tabletop by cleanser and disinfection with highly corrosive.

8.2.3

After surgery,the tabletop must be in the minimum position when cleaning up or lay up.

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8.2.4

The useful life of equipment is 10 years, scrap parts of the device should according to the local environmental protection laws and regulations processing.

9 Environment requirement

9.1 Input power:250VA.

9.2 Working environment requirements:

- a) temperature: 10°C~40°C
- b) relative humidity: ≤80%
- c) atmospheric pressure: 760hPa~1060hPa

9.3 Power requirements:

- a) supply voltage :~110V±10%; ~220V±10%;
- b) supply frequency:50Hz±2%;
- c) Power capacity:≥1kw;

9.4 Transportation and storage requirement:

It could be stocked more than 15 weeks as follow conditions:

- a) temperature: -40~55°C
- b) relative humidity: ≤95%
- c) atmospheric pressure: 500~1060hPa
- d) stock in a ventilated place.

10 Common problems and solutions

10.1 Attention before repair

Please contact with the after sales department,if the chair have some problem.Please do not maintain the chair without authorization.

11 Packing list

Form 11 Accessories

NO.	Item	quantity	NO.	Item	Quantity
1	Roll handle	1 piece	2	Waste basin	1 piece
Other accessories are optional.					

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Exam Table





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