

Product Features

Angoan Brand has been approved by International P. Certificate, ISO9001:2008 quality system certification, in line with CE/TTV/3 standards. By using European technology, Data Company and 100% design with the concept of humanity, the brand carries on modern world production. Single-layer, double-layer, rotating-LDPE material, U.V. medical-sterilization are the latest advanced production series; light weight, disposable, safe with high strength special aluminum alloy and

MEDICAL TOOLS HOLDER

MODEL: AG-40H ; AG-40H-2

MANUAL



Hoàng Văn Bào

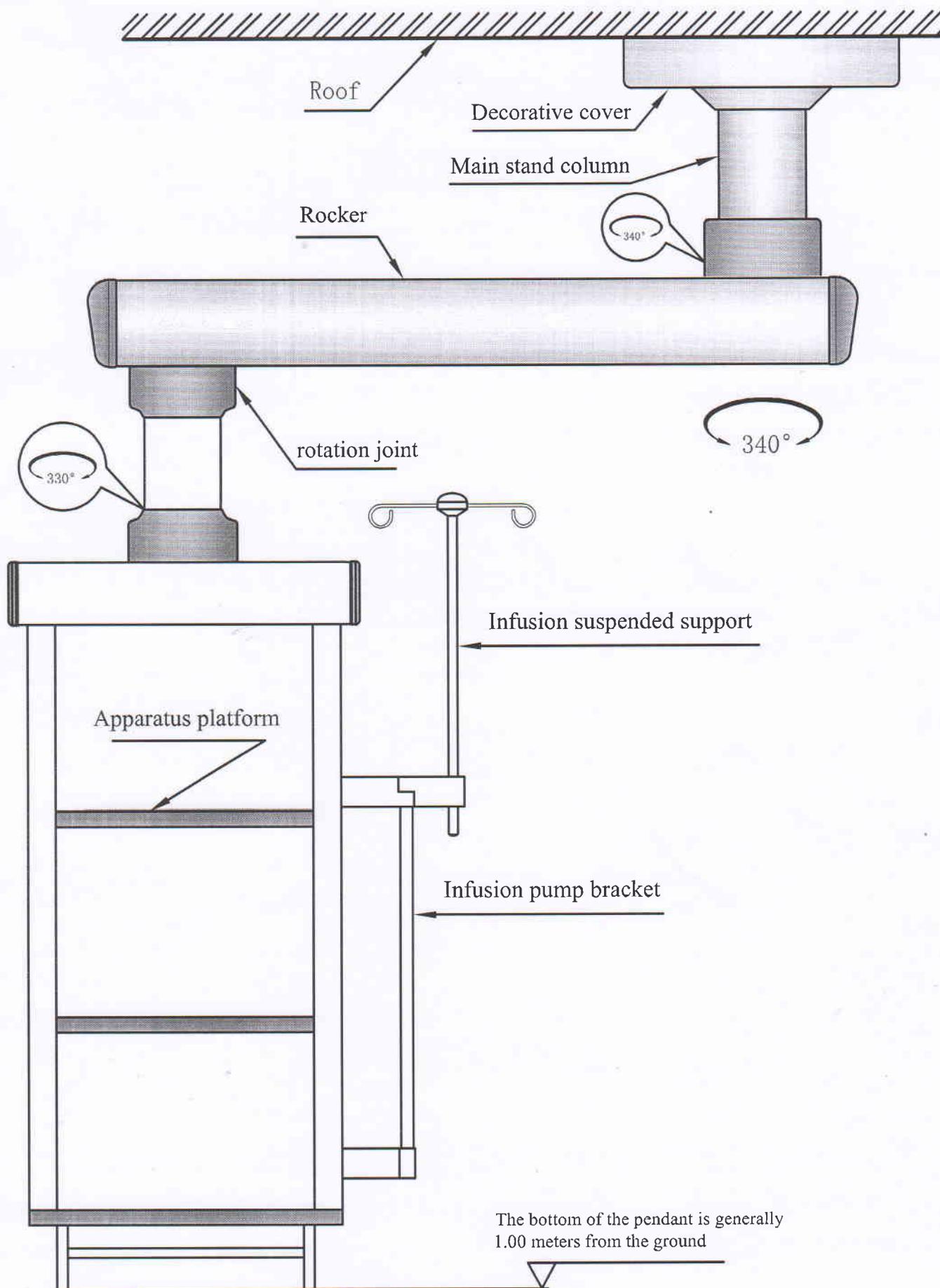
Product Features

Aegean Brand has been approved by International EC Certificate, ISO9001: 2008 quality system certification, in line with Q/FTFY01-2009 standards. By using Draeger technology from Germany and the digital 3D design with the concept of humanity, the brand carries on entire mold production. Single-rocker, double rocker rotating crane tower and ICU medical suspension are the latest released products series; the overall use of disposable materials with high-strength special aluminum alloy and stainless steel, and the use of imported raw powder on the appearance makes the product UV free and ozone free. The color will not change in electrostatic spraying and high-temperature baking; and it has the following features listed as high-performance, multi-function, light weight, versatility, easy installation and convenient operation.

Please read this manual carefully before installation.

400H lifting pendent is new and practical medical assistant equipment commonly seen in operating rooms. Its tight structure and reasonable design enable the electric lifting to rotate by 340° within a certain diameter. When lowered, it is convenient for medical workers to reach and when lifted, it will not stand in the way of normal operating. Necessary applicable gases, strong and weak electricity and network output terminals are concentrated on the functional box of the platform. The platform is able to bear medical instrument with certain weight, making it the ideal working station of medical gas, electricity power and instrument platform.

Product sketch map



Main technical parameters

1. Intake pressure of various gas: 0.4Mpa
2. Suction and aspiration: 300-550mmHg
3. Air source terminal performance: (inserting and drawing times are beyond 20,000 times;two-times sealing)
4. Gas tightness: blow 1Mp and no more than 0.296ml/min;
5. Gas connection ribbing: ϕ 8X1 pipe plug-in type
6. Input voltage: 220V/AC
7. Power supply output current: 10A/piece (multifunctional)
8. Suspended post rotary angle: 340 degrees
9. Electric lift height: 300mm
10. Platform specification: 350X420mm
11. Total load capacity: more than 280Kg
12. Appearance dimension:
13. Total weight: Kg \pm Kg

Product installation instruction

The installation of this product consists of installation of permanent seat, column rocker arm, terminal functional column, apparatus platform, infusion pump bracket and lifting infusion hanger (see product installation sketch map). Installation and debugging of this equipment must be conducted by professional staff.

1. Preconditions prior to equipment installation

- ① Equipment installation position is confirmed and anchor bolts of this equipment have been installed (anchor bolt cable refers to the drawing of suspended tower link span).
- ② Gas pipelines have been laid on the equipment installing position with reserved interfaces (equipped with service valves).
- ③ Three wires of power supply voltage have been in place (2X2.5mm²) and special ground wires have reserved (1X2.5mm²).
- ④ Indoor decoration has completed and is qualified for equipment installation conditions.

2. Following aspects shall be checked before installation

- ① Unpack and check the intactness condition of the equipment.
- ② Whether equipments listed in packing list are complete?
- ③ Check whether the distance between the undersurface of nether anchor bolt supporting frame and the bottom of suspended ceiling complies with requirement, normally between 60-80mm.

3. Equipment anchor bolt installation

- ① First, determine the centre point of installing position on the bottom of suspended ceiling. Use this point as the centre and drill a small hole on the bottom of the ceiling.
- ② The prefabricated centre on the undersurface of equipment anchor bolt supporting frame shall aim at the centre of round hole. Use expansion bolt to fasten upper anchor bolt supporting frame onto the undersurface of concrete floor soffit.
- ③ Check whether the distance between the undersurface of supporting frame and the bottom of suspended ceiling complies with requirement, normally between 60-80mm. Screw expansion bolts tight.

4. Equipment installation

- ① Screw the four M16 connection studs on the undersurface of the supporting frame with 100mm left outside and fasten each stud with nuts; screw an adjusting nut onto each double-screw bolt.
- ② Check the dead-point position of equipment installation place and aim it at the interior room and make it close to the wall.
- ③ Aim at the four M16 connection studs on the undersurface of the supporting frame and put 4 equipment connecting flanges onto them on the basis of ϕ 18 hole and screw on with nuts.
- ④ Adjust nuts, place equipment cross arm and working platform to horizontal level and terminal functional column to vertical level. Then screw up and fasten nuts on each stud of equipment connecting flange.
- ⑤ Connection of medical gas pipeline: find corresponding medical gas pipeline according to identifications marked on medical gas pipeline. Connect and fasten them. Open gas service valves and use neutral soapy water to ensure there are no leakage and no bubbles.
- ⑥ Connect power lines to corresponding equipment link banks and conduct reliable operation on interfaces as per specification. (ensure power was cut off before connection)
- ⑦ Equipment ground wires must be stably connected to grounding bus lines.
- ⑧ Place equipment decorative cover against mounted ceiling.
- ⑨ Check whether medical gas interface, power interface and other interfaces are loosening, if any take timely measures.

Operation description

1. Rotation operation description

Hold the handle and press the brake button simultaneously, pull slightly, rotate the single-arm to required position and release the button to lock the rocker arm; rotate terminal functional column working platform and hold the handle or working platform and rotate randomly; medical apparatus could be placed partially on the apparatus platform as required.

2. Gas source terminal operation instruction:

Take off the shield of gas source terminal, aim at same gas plug and socket, insert gas source plug with force into socket holes and adjust gas volume according to usage demands. Use fingers to press and push gland on gas source terminal. Plug will pop out a little and press once again plug will completely separate from socket.

3. Power supply socket operation instruction

Plug equipment power supply plug, needed to be used, into corresponding power supply socket and switch on power breaker to connecting status and it can be used. In case of needs for using universal plug, it is a must to take off the universal protecting sheet. Plug in universal plug and it can work.

4. Grounding terminal operation instruction

This equipment has grounding terminal. Please connect relevant grounding lines of medical apparatus needed to be grounded to grounding terminals.

5. Lifting and rotating brake operation instruction

Keep pressing the lifting or descending button and release till platform reaching the required position. Keep pressing rotating brake button and cross arm could rotate. Release the button to lock rotating status.

Technical Support

No	Problems	Possible solutions
1	Do not lift up and down	Check whether the power is on Check whether the switch is working Check whether the control board is working Check whether the motor and the transmission structure are working
2	Little or no gas in the terminal of air source	Check whether the valve is completely open Check whether the air tube is connected Check whether the air source plug is fully plugged
3	Horizontal rocker drift cannot brake	Check whether the air pressure of the pneumatic tire valve supply is normal Check whether the brake of the pneumatic tire valve needs to be adjusted Check whether the solenoid valve and the power are in a normal condition Check whether the keys are broken
4	No power in the power terminal	Valve of the circuit breaker is turned off Check whether the power lines are connected
5	Arm horizontal rotation uneven, box columns are not vertical	Adjustment should be carried on toward supporting bracket and pendant bolts
6	The upper and lower layer of the instrument platforms need to be moved	Please release the supporting bolts on the instrument platform and then proceed the adjustment.
7	Not smooth in rocker rotation	Professional maintenance staff should be sent for in time.
8		
9		
10		

Attentions

This product has conducted test and is complied with restriction and conditions concerning medical electric apparatus (GB9706.15-2008) and corporate standards.

Ground wires used for this product are designated for medical use and shall be safe and reliable and shall be independently connected to and from grounding bus bar.

At the end of the medical gas pipeline provided for this equipment there shall be equipped with service valve.

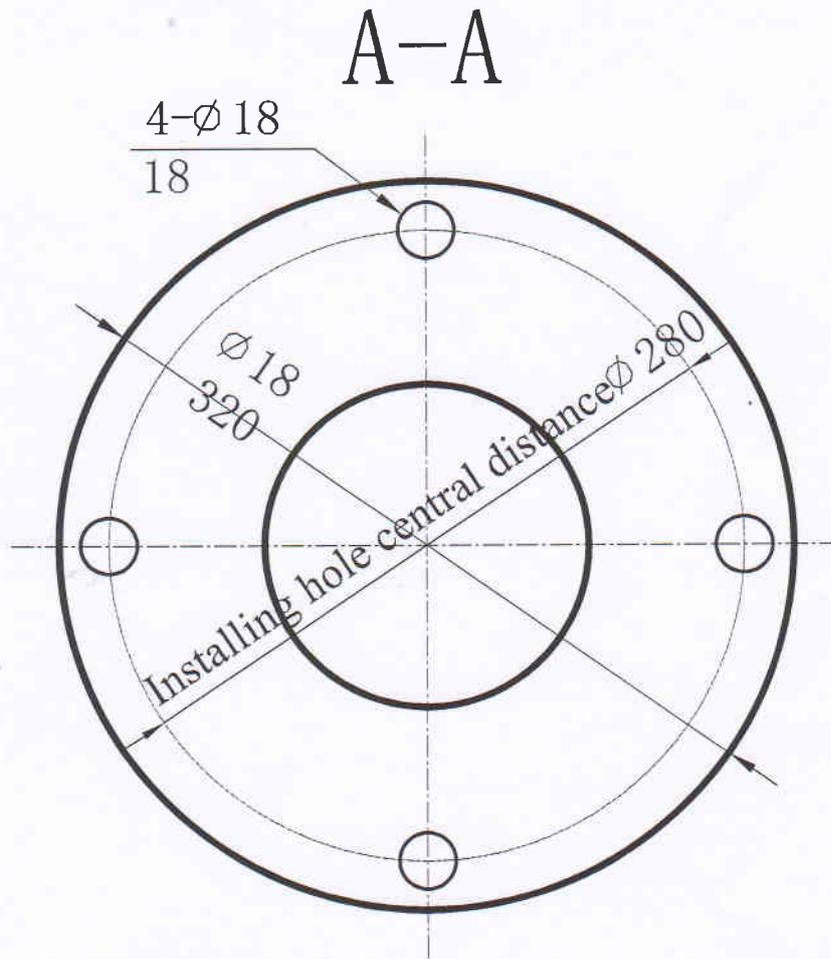
The limited block of this equipment is designed for limiting rotating object's 340 degrees rotation and can't be bumped violently.

The loading capacity of the working platform of this product is limited. Please place medical apparatus according to the loading capacity of technical parameters.

The painting of this product surface applies ultraviolet and ozone resistant imported plastic powder designed especially for medical apparatus. It is strictly prohibited to knock and strike with sharp object.

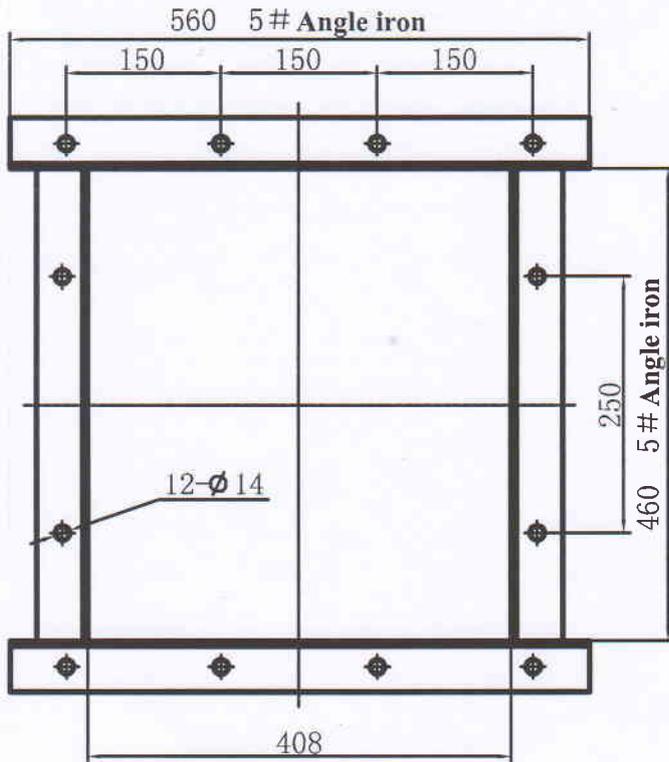
For the sake of safe operation, during the installing and fastening of equipment supporting frames onto ceiling. Please ensure expansion bolts are firmly fixed with anchor bolts. Bearing strength of supporting frame is required to be more than 200Kg; please ensure power voltage complied with design requirement.

Suspended tower connecting flange dimension



Suspended tower connecting flange

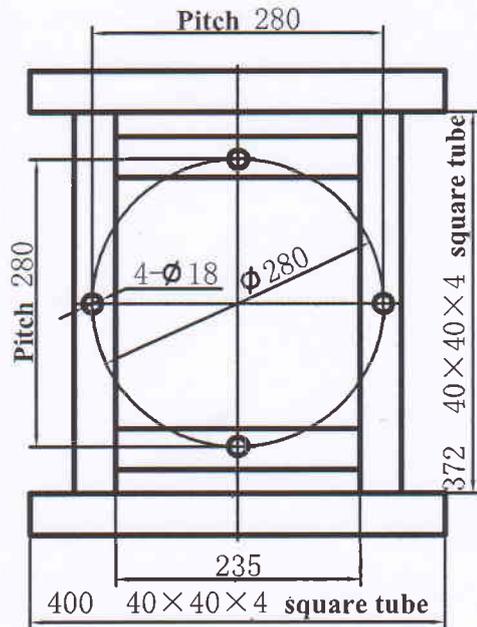
AG Series Hanging Tower Racks



The roof slab uses M12 expansion bolts upper frame

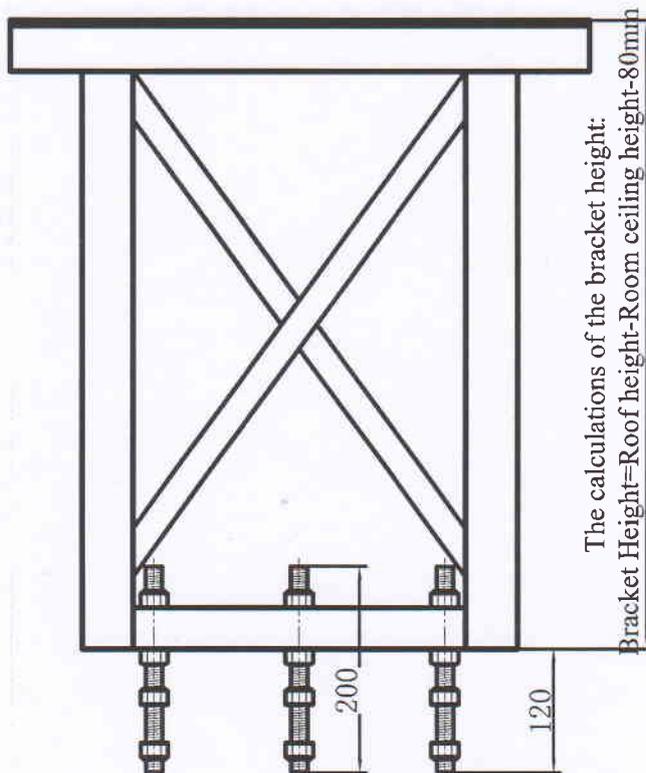
5#angle iron length mm*2 column upper outer frame
 5#angle iron length mm*2 column upper outer frame
 5#angle iron length mm*2 column bracket height

The calculations of the bracket height: Bracket Height
 =Roof height-Room ceiling height-80mm



Flange connection uses M16 crest hanging bolts lower frame

40*40*4 square tube length mm*2 column lower frame
 40*40*4 square tube length mm*2 column lower frame
 40*40*4 square tube length mm*2 column lower frame

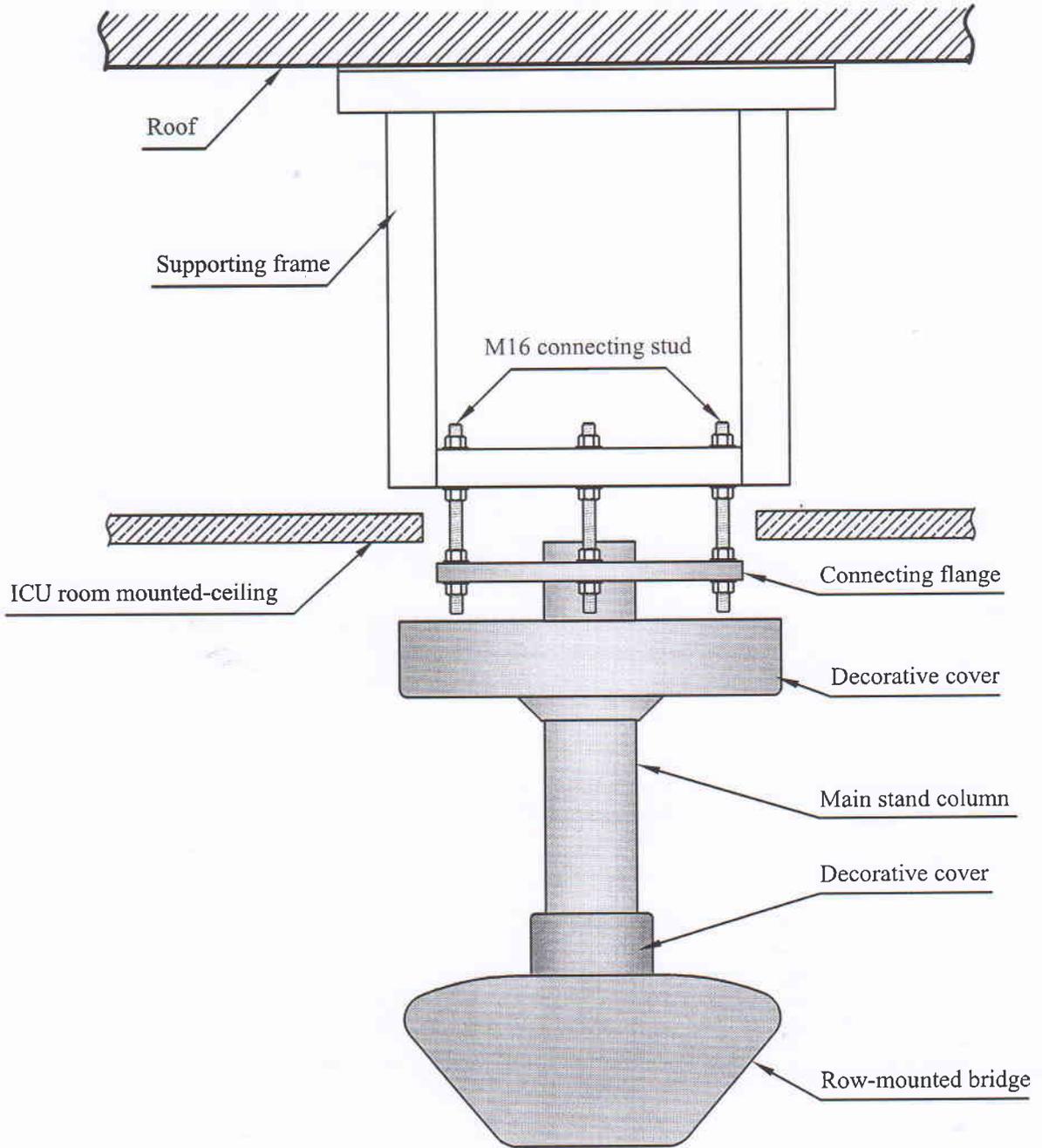


Manufacture and installation of bracket:

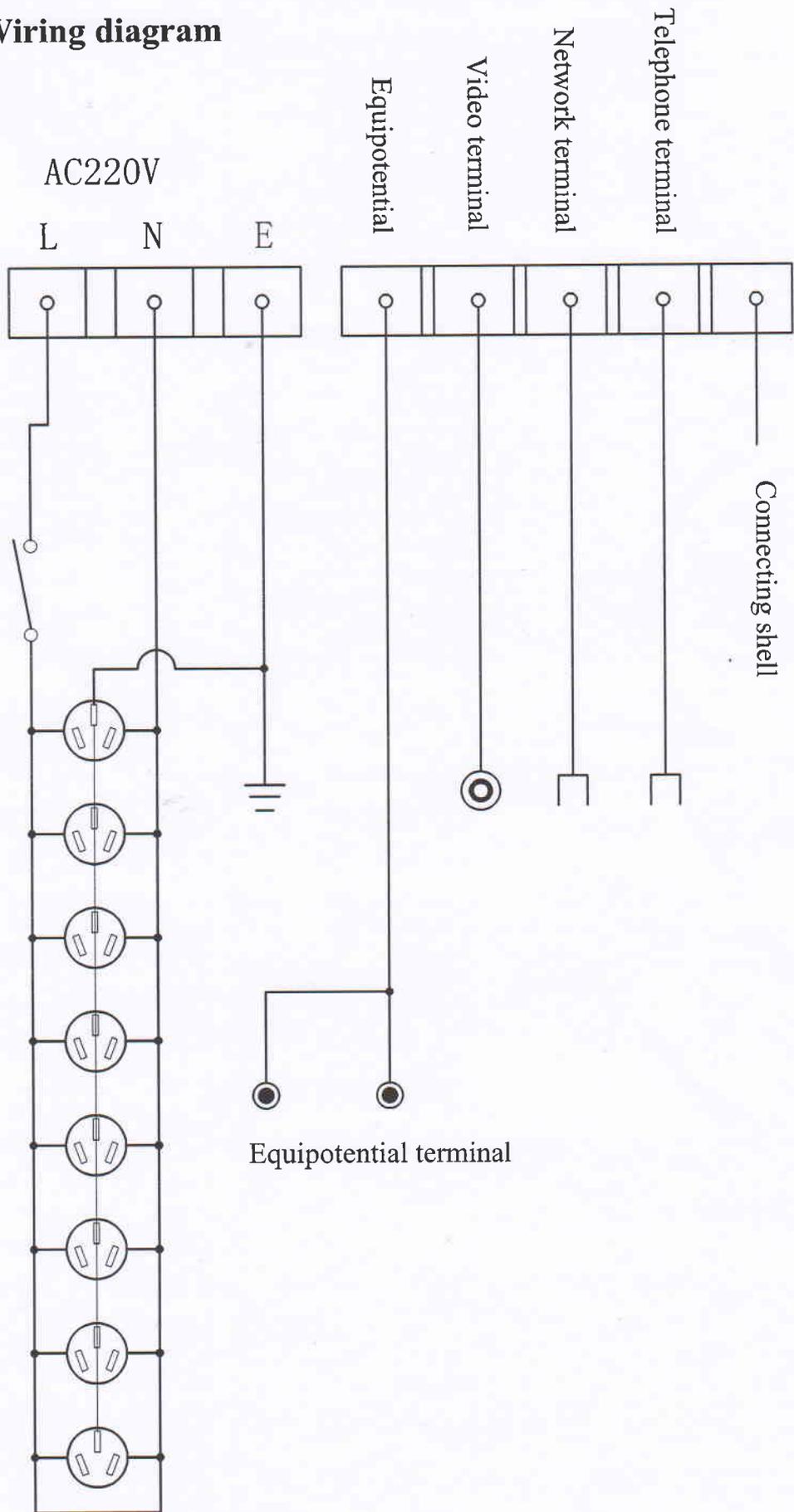
- 1.The material uses 50 * 50 angle iron, and 40 * 40 square tube is made by arc welding. The height of the bracket depends on ceiling height.
- 2.In the bracket installation, a printing board should be made in symmetry with the 12 holes of the bracket, then print the print board onto the ceiling and start digging holes. Fix the prefabricated board and the print board with 12 expansion bolts in M12 and the installation place should be in accordance with the requirements. (Generally, it is installed on the top side of the head of the operation bed, keeping a 400mm distance from the head 1000mm on the right. The installation place is only for references)
 Conditions permits, pre-management of the basis of the bracket should be carried on.
- 3.For brackets taller than 600mm, the column should make use of crossed strengthened materials to enhance the durability.
- 4.After the installation of bracket, it should be connected with the bearing pendant and the bearing tower should be in vertical and balance. The balance should be adjusted with 4 connectors in M16.

The bracket is produced by the installation party, and is for reference only.

Installation sketch map



Wiring diagram



Packing list

Inside the packing cases there are following objects:

No.	Name	Specification	model	Quantity
1	单臂腔镜塔	AG-400H	台	1
2	Manual		Piece	1
3	Qualification certificate		Piece	1
4	Warranty Card		Piece	1
5	Tube connectors	6YC ball, cap	Couple	
6	Infusion pump and infusion rack shelf	Y25-19	Set	
7	Instrument platform	350mm*420mm	Piece	
8	Drawer		Piece	
9	Connecting bolt	M16*200	Set	4
10	Nut	M16	Piece	16
11	Working light		Piece	
12	Various gas source plug			
	Oxygen, attract, air, nitrogen, carbon gas, nitrous oxide, exhaust gas, argon		Piece	Apiece
13	Oxygen wet device		Set	
14	Aspirator		Set	
15				
16				
17				
18				
19				