

# Electric Patient Lift

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Operating manual\_



WY220

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# Important Safety Tips

Before using this product, please be sure to read this manual carefully and keep it properly.

If there is any problem in the use of the product, please contact the local distributor or the company in the first time, we will be dedicated to provide you with after-sales service and help.

## Product overview

The Electric Patient Lift is designed for easy folding and storage when not in use. It is a multi-functional mobile lifting device, not only electric lifting, and foot width adjustment. Some of the most commonly used situations are movement between bed and wheelchair, moving from bathroom to bathroom, standing up or squatting down from the ground.

## Product description

Consists of a frame, casters, base legs, boom, controller assembly, handrail and sling.

## Intended Use

Used for transporting and moving patients in medical institutions.

## Scope of application

This product can be used in home care, hospitals, disability rehabilitation centers and other places for people with disabilities, disabilities, critically ill patients and other to move short distance position movement, to reduce patients in the transfer process of injury.



## Precautions

1

According to the doctor's advice, the body should not bend at will, the movement of the body will cause more harm to the human body, the weight of the people is greater than the maximum load of the machine prohibited this product.

2

Please walk carefully when moving, pay attention to the changes.

3

Do not use or operate the product on uneven ground or in an environment where the temperature and humidity exceed normal levels.

## Basic parameter

Base length	1070mm	Overall width	630mm
Leg spread width	920mm	Lifting range	750mm-1750mm
Speed up and down	3-9mm/s	Maximum load	180kg
Net weight	45kg	Noise	Less than 65dB(A)
Input power	AC100-240V/50/60Hz	Motor	24V/8000N

# LIFT installation instructions

## Step1: Component inventory



Hook



Boom



Rotating handrail



Uprights



Base



Screw cap  
and  
Older screw



Wrench



Armrest cushion



Electric push rod



Power  
Line



Remote  
control



## Step2: Upright installation



- ① Place the base to a smooth ground.



- ② Step on the rear wheel brake to ensure the base is stable and unmovable.



- ③ Remove the screws at the joint of the post.

### Side view



- ④ Place the uprights on your shoulders.

- ⑤ Hold the post with your left hand, and align the screw holes where the column meets the base.

- ⑥ Insert and tighten the screws to ensure that the column is firmly connected to the base.

## Step3: Install the boom and the hook



- ① Put the boom on the shoulder so that the screw hole of the boom is aligned with the screw hole of upright.

- ② Insert and tighten the screws to ensure the strong connection between the column and the boom.



- Remove the central screw of the hook and connect it with the boom. At last, tighten it to ensure that the hook and boom are securely connected.



## Step4: Install the electric push rod



- ① Place the boom in reverse (take care it lightly to avoid damage the paint).



- ② Remove the middle screw of the column and place the push rod on the shoulder, connect the bottom of the push rod and column with screws and tighten the screws to make sure the connection is secure.

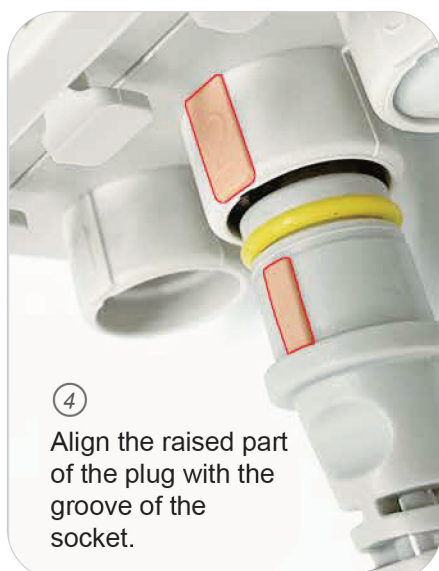


- ③ Turn the boom back to the forward.



- ④ Remove the central screw of the boom, connect the push rod and the boom with the screw and tighten it to ensure that the boom is firmly connected to the push rod.

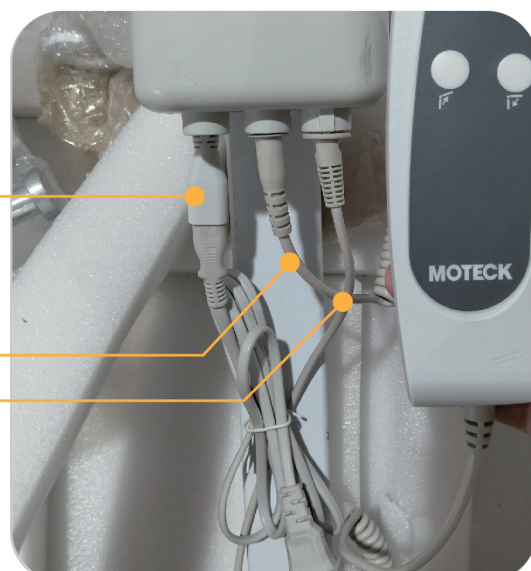
## Step5: Turn on the power



- ④ Align the raised part of the plug with the groove of the socket.

- ⑤ Connect cables to the battery box.

Charging port  
Motor plug  
Hand controller plug



## Step6: Turn on the power

Turn the red switch to turn on the power supply.



Press the red switch to turn off the power.



06

## Confirm the project when the installation complete

1

Whether wheel braking is normal;

2

Whether all bolts and nuts of the whole machine are installed

3

Whether the command instruction of hand-held remote controller is consistent with the lifting operation;

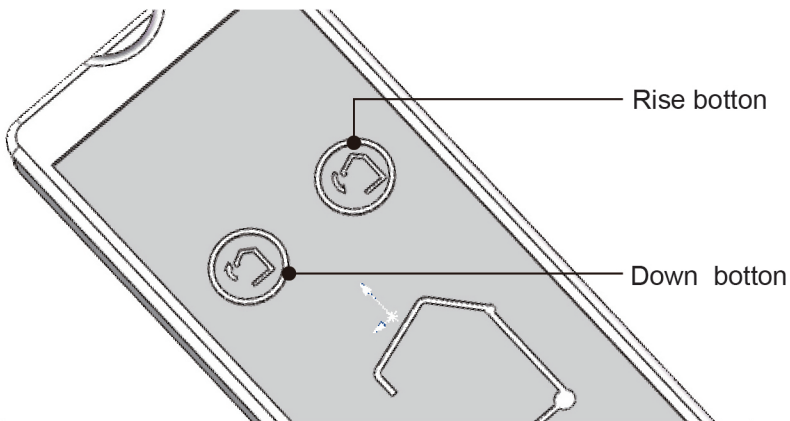
4

Make sure the electric push rod, the handheld controller and the power cord plug have been correctly inserted into the control box jack, and the fixed parts are tightened.

5

When connecting the power supply or charging, whether the power adapter indicator light is steady on;

## Electric emergency lift



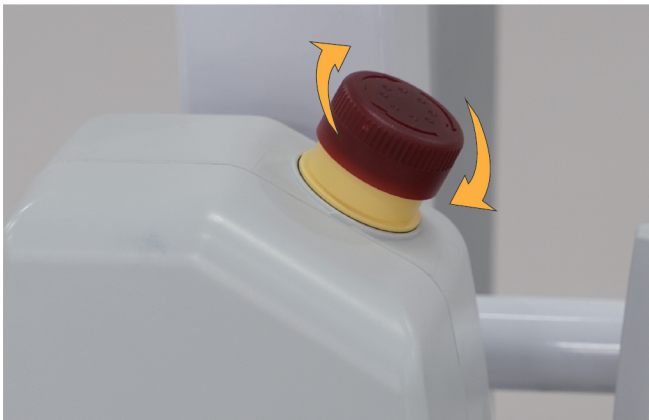
The lifting arm can be controlled by pressing the rise and fall button of the electric unit;

Do not press the keys with sharp objects.

## Emergency stop

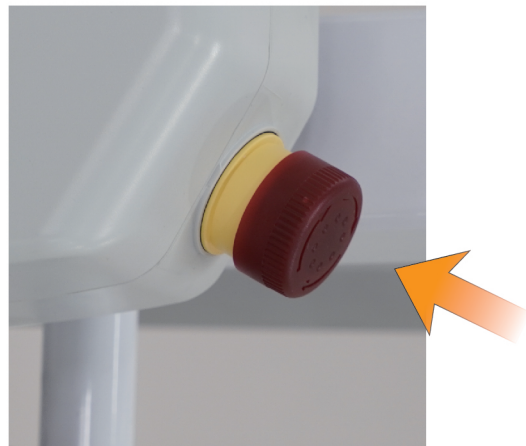
### Release/reset:

Turn the switch in the direction of the arrow.

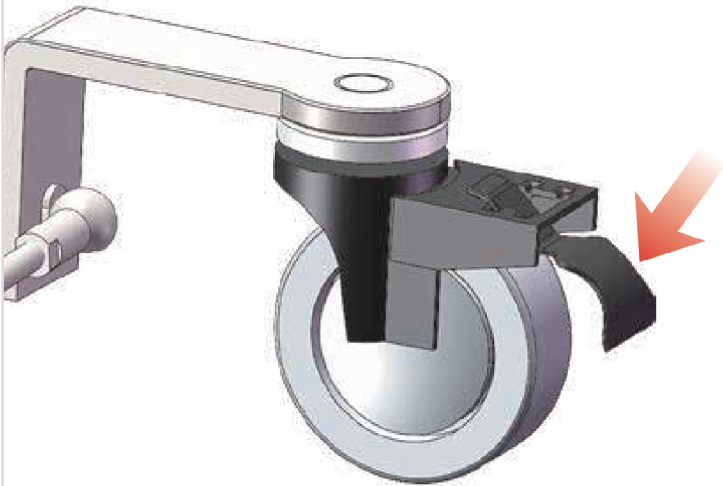


### Emergency stop:

Press the red emergency stop switch on the control box;



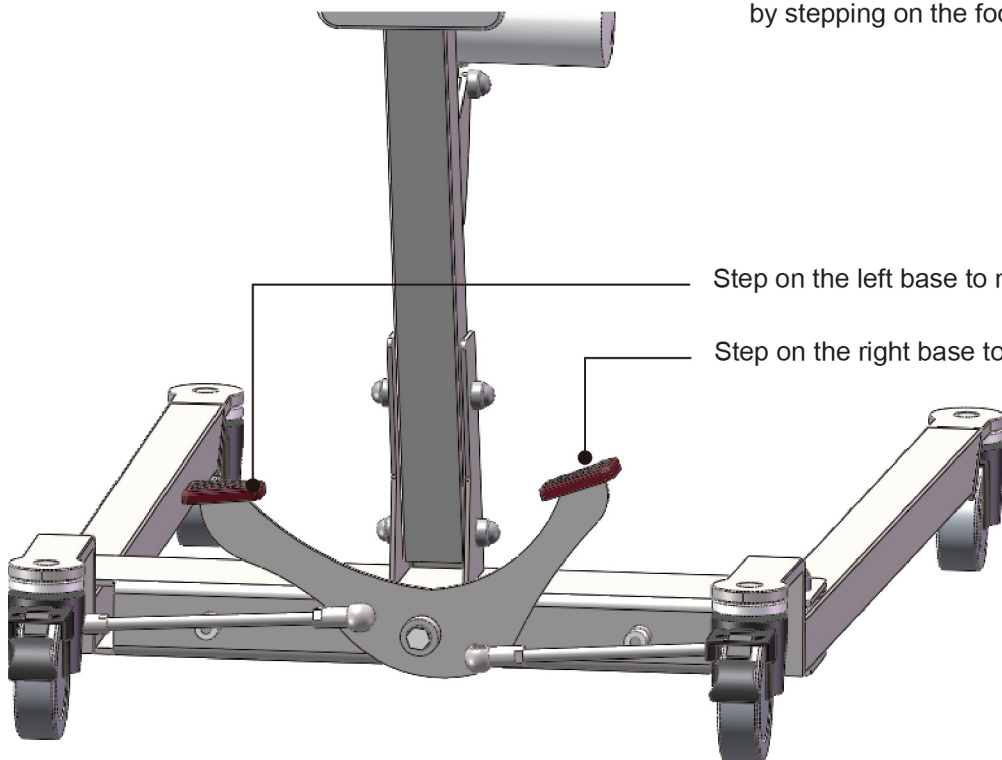
## Lock the wheel



Step on the small pedals behind the wheel and the wheel lock no longer turns and moves sideways.

In order to ensure better safety operation, we recommend that the wheel must be locked to prevent sliding when the load is lifted.

## Base width adjustment

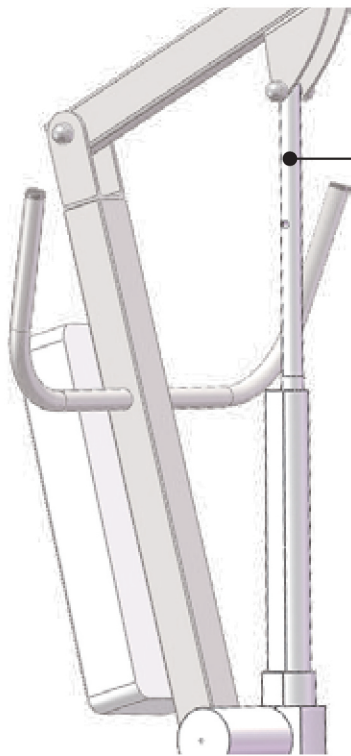


The width and narrowness of the opening Angle of the section base can be adjusted by stepping on the foot pedals.

Step on the left base to narrow

Step on the right base to widen





Electric push rod



## NO GRIPPING PUTTER

Do not touch the electric push rod with your hand during lifting and lowering. Beware of nip injuries.

## Use Precautions

1

Ensure that the sling has been properly installed according to the instructions, and ensure that the spreader is free from tearing, cutting and loose wires;

2

After connecting the power supply, the green light on the control box is steady on, and the hand-held remote controller can be used for lifting operation.

3

Please do not use in wet environment, beware of electric leakage, electric shock!

4

Equipment for other purposes beyond the design scope, which will cause damage to the equipment or may cause injury.

5

Ensure that the weight of the user does not exceed the maximum weight of the shifter;

6

Please carry out lifting operation on the flat ground to avoid the risk of toppling the lifting equipment;

## Normal working environment

Ambient temperature	5°C ~ 40°C	Relative humidity	20% ~ 90%
Atmospheric pressure	70kPa ~ 106kPa	Input power supply	AC220V/50Hz

## Storage and shipping conditions

Ambient temperature	5°C ~ 40°C	Relative humidity	20% ~ 90%
Atmospheric pressure	70kPa ~ 106kPa	Input power supply	AC220V/50Hz

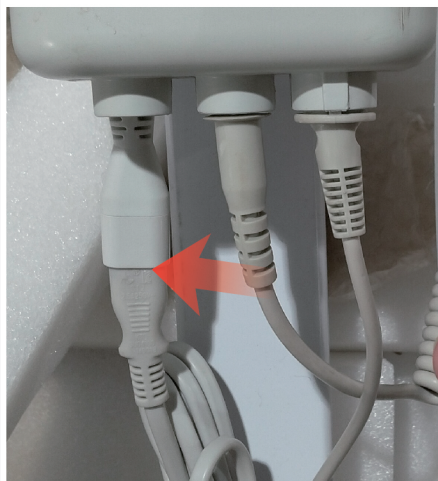
Equipment must be shipped in original packing boxes or other reasonable method specified to minimize vibration and turbulence (horizontal handling) and avoid damage.

## Charging instructions

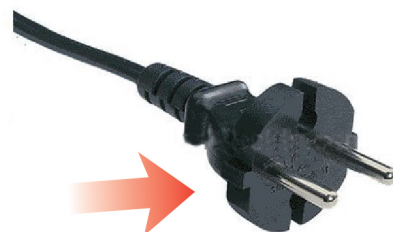
- 1** Rotate the emergency button so that it is unpressed.



- 2** Plug in the charger charging head Battery charging port;



- 3** The charger plugs into the home power electrical socket;



The yellow or red indicator light on the power adapter continues to light while charging, and turns green when charging is complete.

## Charging precautions

- Please do not charge in a humid environment, beware of leakage and electric shock!
- The yellow or red indicator light on the power adapter continues to light while charging, and turns green when charging is complete.
- It is recommended to press the emergency stop button when the device is not in use and open it when it is in use to effectively reduce battery energy loss.

## Periodic charge

If you do not use the device for a long time, charge the battery regularly  
(Every 10 days in autumn and winter, and every 15 days in spring and summer).

## Maintenance

- Water in the device's power plug can cause failure or even electrocution.
- Make sure to press the emergency stop button and remove the power when the equipment is being cleaned, preserved or maintained.
- The exposed metal parts will rust when exposed to water. Please wipe them with a dry and soft cloth.
- To remove stains or oil stains, use a cloth soaked in diluted neutral detergent in water, wring it out and wipe it down.

## Troubleshooting

### Chargers do not charge

1. check whether the emergency stop button is pressed;
2. Use emergency descent device;
3. if the electric shifter does not work, please contact after-sales service;

### Electric push rod Stop in the raised position

1. Check that the charger is plugged into the socket;
2. Check whether the battery interface is faulty or damaged;
3. If the charger still cannot be charged, please contact after-sales service;

### The electric shifter does not work (Up or down)

1. Check whether the emergency stop button is pressed;
2. Check whether the interface of the hand control or electric push rod is connected correctly;
3. Check the battery charging level (see the display on the control box);
4. Check whether the battery interface is faulty or damaged;

## Electromagnetic compatibility accessories

- The equipment conforms to the relevant requirements of YY0505 standard electromagnetic compatibility;
- The user shall install and use the equipment according to the electromagnetic compatibility information provided by the random file;
- Portable and mobile RF communication equipment may affect the performance of the equipment, avoid strong electromagnetic interference when using, such as near the mobile phone, microwave oven, etc.;
- Guidelines and manufacturers' statements are detailed below;
- The equipment should not be used in close proximity to or stacked with other equipment, and if it must be used in close proximity or stacked, it should be observed to verify that it operates properly in the configuration it is used in;
- The use of accessories and cables other than those sold by the manufacturer of the equipment as spare parts for internal components may result in an increase in the emission of the equipment or a decrease in immunity.

**Table 1- Guidelines and Manufacturer's Statements  
- Electromagnetic Emission**


Guidelines and Manufacturer's Statements - Electromagnetic Emission		
Launch Tests	Compliance	Electromagnetic Environment - Guide
Radio-frequency emission GB 4824	1 set	The device uses RF energy solely for its internal function. As a result, its RF emission is low and there is little chance of interference with nearby electronics.
Rf emission GB 4824	Class B	The equipment is suitable for use in the household and in all facilities connected directly to the domestic public low-voltage supply network.
Harmonic emission GB 4824	Class A	
Voltage fluctuation /flash emission GB17625.2	Conformance	

## Table 2- Guidelines and Manufacturer's Statement - Electromagnetic Immunity

Guidelines and Manufacturer's Claims - Electromagnetic Immunity			
The equipment is intended to be used in the electromagnetic environment specified below, The purchaser or user shall ensure that it is used in such an electromagnetic environment:			
Immunity test	IEC 60601 Test level	Conformance level	Electromagnetic Environment - Guide
Electrostatic Discharge GB/T 17626.2	±6Kv contact discharge  ±8Kv air discharge	±6Kv contact discharge  ±8Kv air discharge	The floor should be wood, concrete or tile. If the floor is covered with synthetic material, the relative humidity should be at least 30%;
Electrical fast transient pulse group GB/T 17626.4	±2Kv to power cord  ±1Kv pair input / Output line	±2Kv pair of power cables	The net power supply should be of a quality typical for use in a commercial or hospital setting
Surge GB/T 17626.5	±1Kv wire to wire  ±2Kv wire to wire	±1Kv wire to wire  ±2Kv wire to wire	The net power supply should be of the quality typically used in a commercial or hospital environment
Voltage dips, short shutdown interruptions and voltage changes on the power input line GB/T 17626.11	<5% U lasting 0.5 cycles (>95% dip on U)  < 5% U, lasting 5 cycles (at U, a 60% dip on U)  70 % Ur, lasts 25 cycles (on U 30% dip)  <5%U lasts 5s(at U, on,>95% of the drop)	<5% U lasting 0.5 cycles (>95% dip on U)  < 5% U, lasting 5 cycles (at U, a 60% dip on U)  70 % Ur, lasts 25 cycles (on U 30% dip)  <5%U lasts 5s(>95% dip at U, up)	The net power supply should be of a quality typical of those used in a commercial or hospital setting.  If the user of the device requires continuous operation during a power outage, an uninterruptible power supply or battery power is recommended for the device.
Working field (50/60Hz) GB/T 17626.8	3A/m	3A/m	The power frequency magnetic field should have the power frequency magnetic field level characteristics of a typical site in a typical commercial or hospital environment.
Note: U, refers to the AC network voltage before the test voltage is applied			



## Table 3- Guidelines and Manufacturer's statements - Electromagnetic immunity

Guidelines and Manufacturer's Claims - Electromagnetic Immunity			
The purchaser or user shall guarantee that the equipment is intended to be used in the electromagnetic environment specified below:			
Immunity test	IEC 60601 Test level	Conformance level	Electromagnetic Environment - Guide
Radio-frequency conduction GB/T 17626.6	3V (valid value) 150kHz - 80MHz	3V (valid value)	<p>Portable and mobile RF communication devices should not be used closer to any part of the device than the recommended isolation distance, including cables. This distance should be calculated by a formula corresponding to the transmitter frequency. Recommended isolation distance:</p> <p><math>d = P^{0.1}</math></p> <p><math>d = P^{0.1}</math> P2.1 80 MHz-800 MHz <math>d = P^{0.1}</math> P3.2 800 MHz-2.5 GHz type In :P</p>
Radio-frequency radiation GB/T 17626.3	3V / m 80MHz - 2.5GHz	3A / m	<p>P - in watts (W) according to the maximum rated output of the transmitter provided by the transmitter manufacturer. d - the recommended isolation distance , the field strength of a stationary RF transmitter in meters (m) is determined by survey A of the electromagnetic site to be lower than the coincidence level at each frequency range b. In marking the following symbols Interference may occur near the equipment.</p> 
<p>Note 1: On 80MHz and 800MHz frequencies, the formula for higher bands is used.</p> <p>Note 2: These guidelines may not be suitable for all situations, electromagnetic propagation is affected by the absorption and reflection of buildings, objects and the human body.</p>			
<p>A. The field strength of stationary transmitters, such as wireless (cellular/cordless) telephone and ground mobile radio base stations, amateur radio, AM and FM radio broadcasting and television broadcasting, cannot be accurately predicted in theory. In order to assess the electromagnetic environment of stationary radio frequency transmitters, a survey of the electromagnetic site should be considered. If the field intensity measured at the site of the equipment is higher than the applicable RF coincidence level above, the equipment should be observed to verify normal operation. If abnormal performance is observed, supplementary measures may be necessary, such as reorienting or positioning the device.</p> <p>B. The field strength should be less than 3 V/m over the entire frequency range of 150kHz to 80MHz.</p>			

## Table 4- Isolation distances between portable and mobile RF universal devices

Recommended isolation distances between portable and mobile RF communication equipment and equipment			
The equipment is intended to be used in an electromagnetic environment where radio frequency radiation harassment is controlled. Depending on the maximum rated output of the communications equipment, purchasers or users can prevent electromagnetic interference by maintaining a minimum distance between portable and mobile radio frequency communications equipment (transmitters) and equipment as recommended below.			
Of a transmitter Rated maximum output power W	Isolation distance for different frequencies corresponding to the transmitter		
	150 kHz - 80 MHz $d = 1.2\sqrt{p}$	150 kHz - 800 MHz $d = 1.2\sqrt{p}$	150 kHz - 2.5 GHz $d = 2.3\sqrt{p}$
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
<p>For the maximum output rating of a transmitter not listed in the table above, the recommended isolation distance, d, in meters (m), can be determined by the formula in the corresponding transmitter frequency column, where P is the maximum output rating of the transmitter in watts (W) provided by the transmitter manufacturer.</p> <p>Note 1: At 80 MHz and 800 MHz frequencies, formulas for the higher frequency range are used.</p> <p>Note 2: These guidelines may not be suitable for all situations, electromagnetic propagation is affected by the absorption and reflection of buildings, objects, and human bodies.</p>			

## Table 5- Cable length

Cable length		
Cable name	Length (m)	Masking or not
Power cord	2.0	no
Hand controller connection cable	1.4	no
Push rod motor wire	1.0	no



## Warranty card

Product model: \_\_\_\_\_

Purchase date: \_\_\_\_\_

User Information: \_\_\_\_\_

Name: \_\_\_\_\_ Telephone: \_\_\_\_\_

Address: \_\_\_\_\_

Repair content: \_\_\_\_\_

Date: \_\_\_\_\_ The person in charge: \_\_\_\_\_

## Certificate of conformity

**This product has been approved  
for delivery after inspection**

Test conclusion: \_\_\_\_\_ Pass \_\_\_\_\_

Product model: \_\_\_\_\_ WY220 \_\_\_\_\_

Product number: \_\_\_\_\_

Production date: \_\_\_\_\_

Inspectors: \_\_\_\_\_

Inspection date: \_\_\_\_\_

## After sale service

- Please take good care of the equipment of the random data, in the company for the equipment problems warranty or maintenance, you need to cooperate to show the data.
- From the date of delivery of this product, if the fault or damage occurs due to correct installation and use in accordance with the instructions, the "Product Warranty card" will guarantee the battery for 3 months; 1 year warranty for push rod and control box; The frame is guaranteed to be used for 5 years (except casters, fragile products and human factors) and lifetime maintenance service. Once sold, the Sling device shall not be returned or replaced unless it is due to quality problems.
- During the warranty period due to improper use, self-disassembly, and unforeseeable natural disasters (such as: fire, flood, earthquake, etc.) caused by the damage will not be free warranty.
- Non-professional maintenance personnel are not allowed to disassemble, repair or modify the equipment by themselves, in order to avoid danger.