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# BettaPack Portable Pallet Strapping System 3-BP-888



User's Manual

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# Content

- 1. Technical Data** -----2
  - 1.1 Mobile strapping unit-----2
  - 1.2 Sealing head -----3
  - 1.3 Battery -----3
  - 1.4 Charger unit-----3
- 2. General** -----4
  - 2.1 Notes on environmental protection-----4
  - 2.2 Products features-----5
- 3. Safety regulations**-----6
  - 3.1 Notes on environmental protection-----6
  - 3.2 Safety regulations-----6
  - 3.3 Warning-----7
  - 3.4 Safety regulations for battery and charger-----10
- 4. Description** -----11
  - 4.1 Equipment structure-----11
  - 4.2 Operating panel control unit-----12
  - 4.3 Touch screen function-----13
- 5. Commissioning**-----14
  - 5.1 Battery charger -----14
  - 5.2 Charging the battery-----14
- 6. Operation** -----15
  - 6.1 Threading in the strap -----15
  - 6.2 Strapping -----21
  - 6.3 Tensioning and sealing-----26
- 7. Secure Movement and Parking** -----29
  - 7.1 Moving the strapping machine system-----29
  - 7.2 Parking the system-----29
- 8. Servicing and repair**-----30
  - 8.1 Cleaning the ChainLance -----30
  - 8.2 Replacing the Upper ChainLance -----31
  - 8.3 Replacing the Lowerer ChainLance -----35
  - 8.4 Replacing individual chain links -----36
  - 8.5 Replacing the reversing sledge -----37
  - 8.6 Replacing the sealing head -----40
  - 8.7 Replace the battery-----41
- 9. Main spare parts introduction**-----42
  - 9.1 Reversing sledge-----42
  - 9.2 Drawing Head-----44
  - 9.3 Tool-lift-----45
  - 9.4 Chainlance link unit-----46
- 10. Service and warranty matters**-----47
- 11. Declaration about sealing heads**-----50
- 12. Application of Pallet strapping system** -----51

## 1. Technical Data

### 1.1 Mobile pallet strapping system unit

- \* Weight : BP-888 105k (with sealing head)  
JD-008S 112kg (without sealing head)
- \* Dimensions ( all types ) : L95cm\*W75cm\*H125cm
- \* Maximum chain speeds:
  - Under standard mode
  - Moving out horizontally :40m / min
  - Moving out vertically:60 m / min
  - Moving in vertically:44 m / min
  - Moving in horizontally:54 m / min
- Under chain/pass mode:
  - Moving out:20 m / min
  - Moving In:16 m / min
- \* Max chain thrust :320 N
- \* Noise emission level:79 dB ( A )

**Note:**

*If the width of the strap is 19mm, two points need to keep in mind:*

- 1. Please use the sealing head, which can be available for 19mm width straps.*
- 2. The cargo height shall be under 1.5 meters and it is better to confirm the feasibility with the supplier or original manufacturer.*

- \* Suitable for packaging volume: width below 2000MM ,  
height below3000MM
- \* Applicable straps : PP strap or PET strap
- \* Applicable straps specification:
  - PP strap : roll core diameter 200mm roll core height : 180MM;
  - PET strap : roll core diameter 406mm roll core height : 150MM;
  - Strap thickness : 0 . 6mm-1 3mm;Strap width : 12mm-16mm
- \* Minimum pallet height : 75mm
- \* Minimum pallet width : 200mm
- \* Two versions: one version is designed for PP strap roll(fig 1),another version is designed for PET strap(fig2)

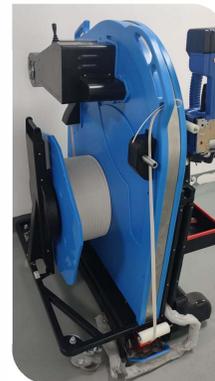


Fig1

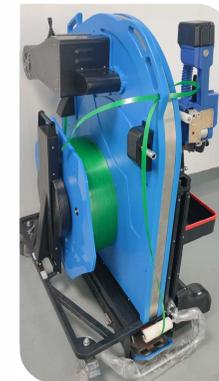


Fig2

## 1. Technical Data

### 1.2 Sealing head

Sealing heads for BP-888 are optional. Please see page 40 & page 50 for details

### 1.3 Battery

- \* Type: 33V lithium battery
- \* Rating : 29.2V-33.3V / 31.2Ah-32Ah/911.04 Wh
- \* Maximum discharging current : 45A
- \* Charging time : approx 3.5 hours
- \* Number of strapping : 200-400 per charge , depending on pallet size , tension , welding time and age of battery.

- \* Weight : 8.3kg
- \* Maximum charging current : 10A
- \* Battery life : up to 2000 charges



Fig3

### 1.4 Charger unit

- \* Type: dual 3-step charger
- \* Working humidity : 90 % ( 4 °C ± 2°C)
- \* Atmosphere pressure : ( 70-106 ) Kpa
- \* Output voltage : DC33.6V
- \* MTBE : ≥50000H
- \* Working temperature : 5°C-45°C
- \* Storage temperature : ( -40°C ~70°C)
- \* Input voltage : AC100-240V;50HZ-60HZ
- \* Output current : 10A



Fig4

## **2.General**

These operating instructions will help you to understand the system and how to use it according to regulations. The operating instructions contain important notes about how to use the system safely, properly and economically. Adhering to the notes helps you to avoid dangers, repairs, and also increases the reliability and life span of the system. The operating instructions must be available where the system is used and it has to be read, understood and used by everybody who works with the system. These works include operation, maintenance, and repair. In addition to the operating instructions and the rules in the country and place of use for the prevention of accidents, the recognized special rules for working safely and according to proper and professional standards also have to be respected.

### **2.1 Notes on environmental protection**

1. Physical or chemical materials dangerous to health have not been used for manufacturing the system.
2. Concerning waste disposal, valid national rules and regulations have to be considered. Take care of disposing of packaging, the product itself and parts accordingly.
3. Special dealers offer disposal according to proper environmental protection.

Do not open the battery.

Do not throw the used battery into the domestic waste bin, into fire or into water.

## 2.General

### 2.2 Products features

- The mobile pallet strapping system comes with innovative chain-pass rolling technology. The chainlance carries a strap through under the pallet and up again in the rear and over the pallet, then the straps will be sent to the operator. The operator only needs to grasp the strap and put it into the sealing head. The strap will be tightened and welded by the sealing head.
- This system is designed based on ergonomics, without bending, reducing operator fatigue, single operation, and saving labor.
- Patented design, fast threading the straps, The average time to thread the straps is less than 10 seconds ( depending on the size of cargo) , central integrated lithium battery power supply, 3 -step charger with a short charging time and long duration ( the battery can be packed for 200-400 times continuously when fully charged ).
- Man-machine interaction, and intelligent touch screen can make packaging parameters set more conveniently and fast.

### **3.Safety regulations**

#### **3.1 Notes on environmental protection**

1. Physical or chemical materials dangerous to health have not been used for manufacturing the system.
2. Concerning waste disposal, valid national rules and regulations have to be considered. Take care of disposing of packaging, the product itself and parts accordingly.
3. Special dealers offer disposal according to proper environmental protection.

Do not open the battery.

Do not throw the used battery into the domestic waste bin, into fire or Into water.

#### **3.2 Safety regulations**

1. Before usage, the manual has to be read and understood. Service and maintenance have to be done by trained staff only .
2. Wear a safety helmet when strapping pallets ,which height is over 1.20 meters.
3. Wear eye and hand protection (cut-proof gloves ) and also safety shoes.
4. Do not place hands or other body parts between the strap and the packaged goods during the strapping process. Ensure that there are no other persons in the hazardous zone. For an emergency stop in the case of danger.
5. After welding, cut the strap with a suitable tool ( strap cutter).

## 3.Safety regulations

### 3.3 Warning

Keep below warnings in mind to avoid causing serious injuries:

- The operating instructions have to be read carefully and understood before using the device. The device may only be operated ,serviced and maintained by well trained personnel.
- When strap being tensioned, the strap may tear and rip. Do not stand in line with the strap and please wear eye protection .
- When its welding the strap,do not move away the sealing head unless it finishes the welding process completely.
- When cutting the strap, hold the upper portion of the strap and stand aside. Do not stand in line or too close with the strap. Eye protection is necessary.
- Power injury risk . Before maintenance or replacement work,please turn the power switch to " OFF " and unplug the cable from the battery.
- When the Chain lance on the opposite side of the pallet moves upwards, its own weight causes it to fall across the pallet in the direction towards the operator.In case of inattention the ChainLance might fall on the operator´s head and cause injuries. Wear protecting helmet when strapping pallets with a height exceeding 1,20m.
- When replacing strap roll weight over 20kg , it is necessary to transport and place it by two persons, to avoid the strap roll falling and damaging the strapping system unit.
- Strapping of pallets should take place, whenever possible, only on plane and horizontal surfaces. When strapping on inclined surfaces,the casters brake at the strap disc side should be locked to prevent equipment from sliding to cause damage to strapping system unit and the worker.

### 3.Safety regulations

- ① Discarded strap is at risk of tripping, Please clean up the discarded straps in time.
- ② The system is only available for plastic straps( polypropylene and polyester ) tension and sealing. Strapping with steel straps is not possible with this system.
- ③ This system is designed for strapping pallets cargoes. The system has been developed and constructed for safe and efficient operation when strapping. Please check the packing environment and packing requirements carefully when packaging.The system is not designed to strap cargoes that are not well packaged
- ④ The system does not consider any risk to damage goods or their packages during strapping.So the tension force of seal head should be adjusted to be correspond to the packages requirement before strapping.
- ⑤ Before using the system for the first time, visual inspection must be done to check if there are any exterior damages.
- ⑥ Before each strapping operation, make sure that no one is in the operation area or can enter the operation area (especially in the area where ChainLance operates), which particularly applies to the area opposite the pallet where the operator's vision is limited and poor.
- ⑦ Work area safety
  - \* Keep the working area clean and well lit. Disordered or dark areas can cause accidents.
  - \* Do not operate strapping tools in explosive environment, such as flammable liquid, gas or dust. the strapping tool might produce sparks, which probably ignite dust or smoke
  - \* Keep children and bystanders away when operating pallet strapping machine. Distraction and carelessness will cause the operator to lose control of the equipment

### 3.Safety regulations

#### Ⓜ Electrical safety

- \* The plug of the strapping system must match the socket. Do not modify the plug in any way. Do not use any adapter plugs with the strapping system. The original plug and matched socket will reduce the risk of electric shock.
- \* Do not expose the pallet system to rain or damp conditions. Water entering the pallet system will increase the risk of electric shock.
- \* Do not abuse the power cord. Do not drag or pull the power cord. Keep wires away from heat, oil, sharp edges, or moving parts. Damaged or twisted wires will increase the risk of electric shock.
- \* When operating electric tools outdoors, use wires suitable for outdoor use. The use of wires suitable for outdoor use can reduce the risk of electric shock.
- \* Please do not operate pallet system in a damp environment

#### Ⓜ Personal safety

- \* Keep alert, pay attention to what you are doing, and use common sense when operating the pallet system. Do not operate the pallet system when you are tired or under the influence of drugs, alcohol, or drugs. A moment of neglect in the operation may cause personal injury.
- \* Use personal protective equipment. Always wear goggles. Personal injury can be reduced by using protective equipment such as anti-skid safety shoes, hard hats, or hearing protection devices under appropriate conditions.
- \* Prevent accidental startup. Make sure the switch is in the OFF position before connecting to the power supply and/or battery pack.

### **3.Safety regulations**

- \* Remove any wrenches or foreign objects before operating the pallet system. Any foreign objects left on rotating parts of the pallet system may cause personal injury.
- \* Dress correctly. Do not wear loose clothing or jewelry. Keep hair, clothing, and gloves away from moving parts. Loose clothing, jewelry, or long hair may be caught by moving parts.

#### **3.4 Safety regulations for battery and charger**

1. Check the plug and the cable before usage each time and if they are damaged, please have them replaced by a well trained technician
2. Do not use any batteries from other manufacturers, use original ones as the replacement only.
3. Keep the connection plug to the battery away from non-related objects and dirt.
4. Protect the charger from moisture and operate it in dry rooms only.
5. Do not open the battery and protect it from shock, heat, and fire. The danger of explosion.
6. Store batteries in a dry frost-proof place. The ambient temperature must not exceed 50°C and must not fall below -5°C.
7. Damaged batteries may not be reused.

## 4.Description

### 4.1 Equipment structure

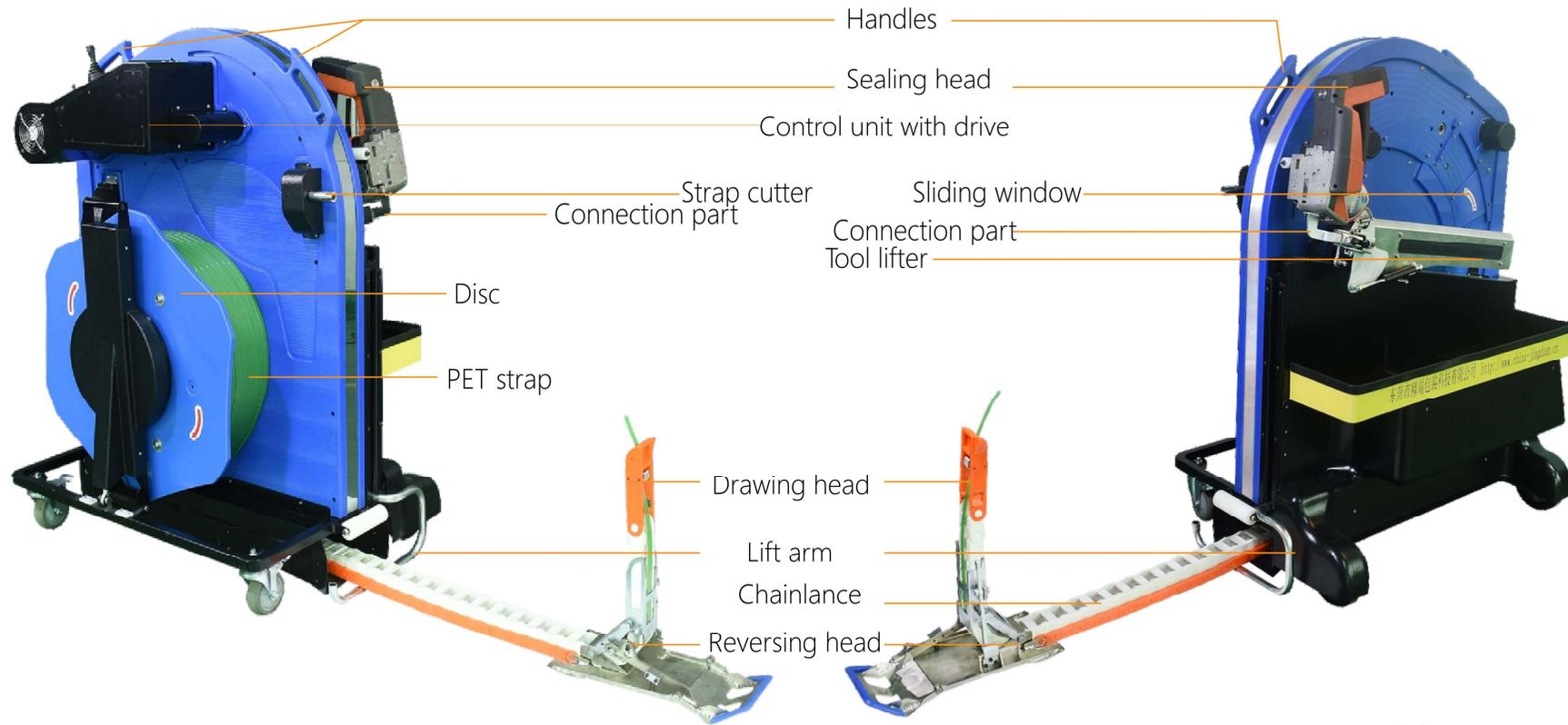


Fig5

## 4.Description

### 4.2 Operating panel control unit

The operation panel control unit comes up of a touch screen to set parameter,a joystick to move chainlance backwards and forwards,a power switch, a power indicator, a mode switch, three indicators (when standard mode,green light is on;when chain/pass mode,blue light is on; when fault or sliding window is open,the red light is on).



Fig6 (1)

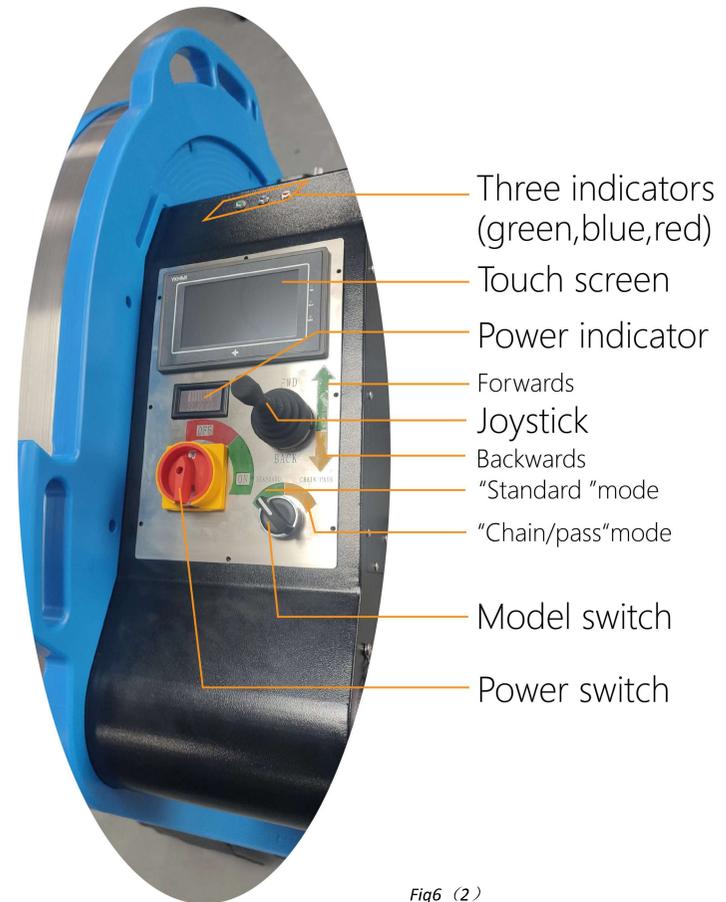


Fig6 (2)

## 4.Description

### 4.3 Touch screen function

1. The pallet width can be selected at: 0.7,1.0,1.2,1.4, 1.6,1.8,2.0 (meters).Users can also click the relevant button (circle it in red)and the numeric soft keyboard will automatically comes up on the screen page,which you can set the data as you need, then click " OK " to save parameters and exit.

2. After clicking the "alarm" on screen, this page will automatically appears, as shown in the picture below, this page will record all the faults of the machine after starting up and running, please be careful to clear it.

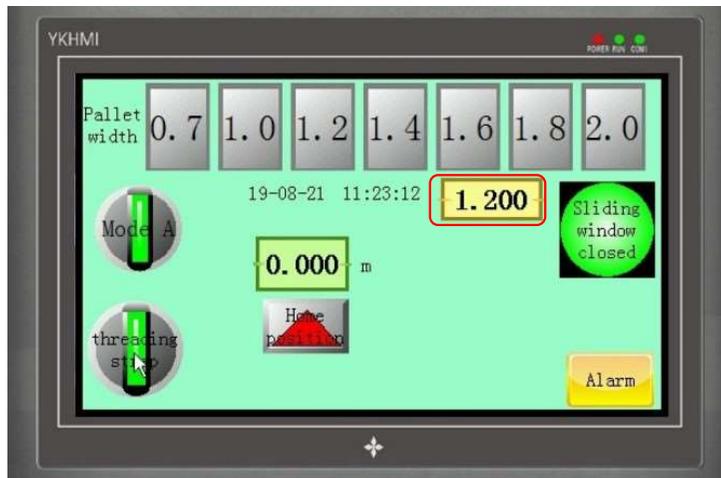


Fig7

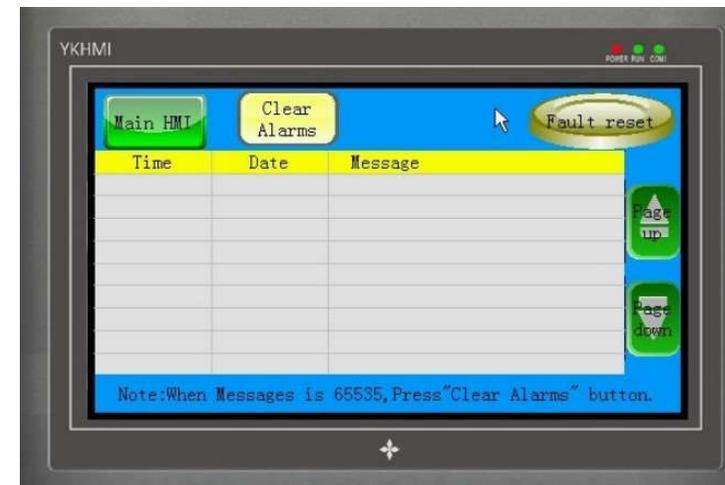


Fig8

## 5. Commissioning

### 5.1 Battery charger

The main voltage must comply with the details on the nameplate. The charger is only suitable for charging the delivered 33V lithium battery.

### 5.2 Charging the battery

1. Remove the charger and connect it to the electrical outlet.
2. Insert the male end of the charging port into the female end of the charging port. It can lock automatically.
3. The charger indicator turns on a red during charging, the red light goes off and the green light goes on when the charging is finished. The charging time is about 2.5h.
4. During charging, do not start the device, and keep the charging port clean and no foreign objects. Dry compressed air should be used to clean the charging port sometimes.
5. If fingers or other conductors contact the charging female end by mistake will have a risk of discharge short circuit, please be careful to operate.



Fig9

**Note:**

1. Before using the machine for the first time, a visual inspection for exterior damages has to be done.
2. Charge the battery only with the original 3-step charger.
3. Rotate the blue ring counterclockwise while pulling out the male end of the charging port

## 6. Operation

### 6.1 Threading in the packaging strap

1. Turn on the power switch on the control unit
2. Rotate the mode switch from the "STANDARD " mode to the" CHAIN/PASS" mode

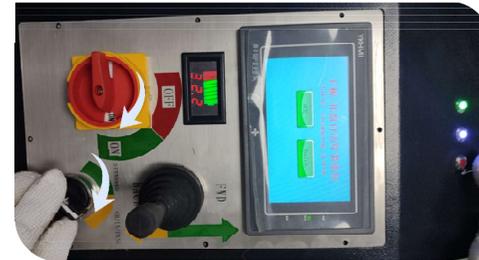


Fig10

### 3. Placing strap

Step:

- 1)Fold down the disc arm downwards until it stop.

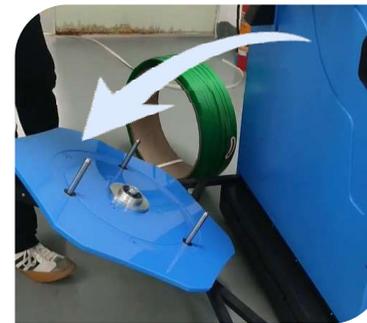


Fig11

#### **Note:**

*JD-008 has two versions. one is for PP strap roll,another version is for PET strap roll.Please use the correct strap roll accordingly when installing the strap( PP strap : roll core diameter 200mm roll core height : 180mm;PET Strap : roll core diameter 406mm roll core height 150mm ).*

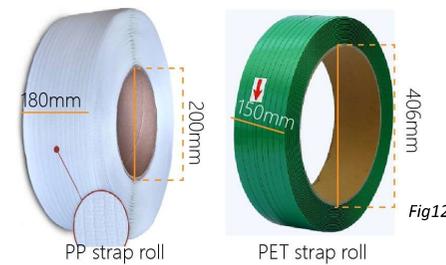


Fig12

## 6. Operation

3) Place a new roll of strap onto the disc with care so that the strap unwinds in the counter-clockwise direction when looking down on the roll.

4) You can remove adhesive strips of the tapes now which secure the strap on the roll ( do not cut the strips which fix the strap on the roll before step 3).

5) Fold up the disc arm with the strap roll again in its vertical position as shown in the picture .

6) Open the cover of the white roll for the strap threading, thread the strap through the U-shaped. and over the white roll to the inside. Then close the cover back again.

**Note:**

**Keep the straps in the correct direction and cannot be twisted during threading.**



Fig13



Fig14



Fig15



Fig16



Fig17



Fig18

## 6. Operation

7) Open the sliding window, press the clamp lock inside the chainlance with your left hand . And then thread the strap from the right to the left through the slot in the clamp lock.



Fig19



Fig20



Fig21

8) Close the sliding window, make sure that the sliding window is fully closed.



Fig22



Fig23



Fig24

**Note:**  
when the sliding window is not closed fully, the red light on the control unit flashes and prompts " please close the sliding window " on the central control screen. When the sliding window is closed. the red light goes off.

## 6. Operation

9) Put the joystick forward in the " move out " direction until the reversing head moves upwards by 10cm-20cm . Hold the draing head with the left hand while you still continue to push the joystick forward in the move forward the direction.



Fig25



Fig26

10) Extend the chainlance as far as shown on the picture , then put the chainlance on the device as shown.



Fig27



Fig28

## 6. Operation

11) Remove the strap from the clamp in the chainlance and hold it straight up as shown.

At the same time , move the chainlance back by pulling the joystick backward until the chainlance is approx 20-30cm lower (shorter) than the strap you are holding in your hand.

12) Press the eccentric latch by pushing it inwards with the finger as shown , then hold the strap vertically so that the strap and the chainlance are straight .



Fig29



Fig30



Fig31



Fig32



Fig33

## 6. Operation

13) Move the chainlance completely backwards by pulling the joystick backwards again in the " move-in direction.

**Note:**

*Make sure the chainlance is backwards completely to avoid the lift arm falling on the reversing sledge (reversing head).*

14) Place the overlapping strap as shown with a loop through the small slot underneath the left handle.

15) Turn the mode switch from " chain/pass" mode to "standard " mode.



Fig34



Fig35



Fig36



Fig37

## 6. Operation

### 6.2 Strapping

1.Roll the strapping system in front of the pallet at a distance of approx 30cm( about a length of an adult foot,Marked as" A" )

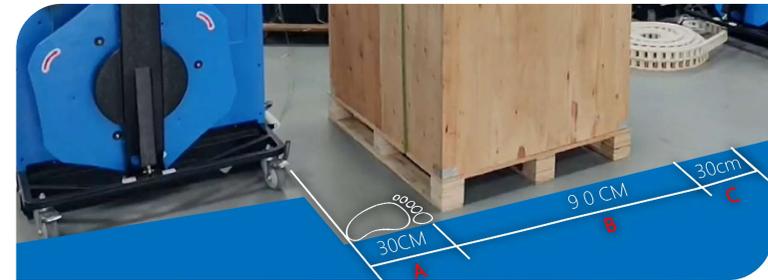


Fig38

2.Turn on the power.



Fig39

**Note:**  
**\*Make sure the mode is at "standard" mode.**

## 6. Operation

3. Pull the joystick backwards/forwards to reset the chainlance back to the origin position ("zero" position) and be in standby state .



Fig40



Fig41

**Note:**  
*\*Whenever you turn on the power switch ,pull the joystick backwards/forwards to reset the chainlance back to the origin position ("zero" position) and be in standby state . please first and make sure strap lift arm back to its lowest position.*

4. Set the relevant parameters of pallet in the touch screen according to the width of pallet . If the pallet width is 0.9 meter (marked as "B" ) , then click the 1.2m (A+B=30cm+90cm=1.2m) icon on the touch screen ( or input 1.2M in the parameters and click " OK ).

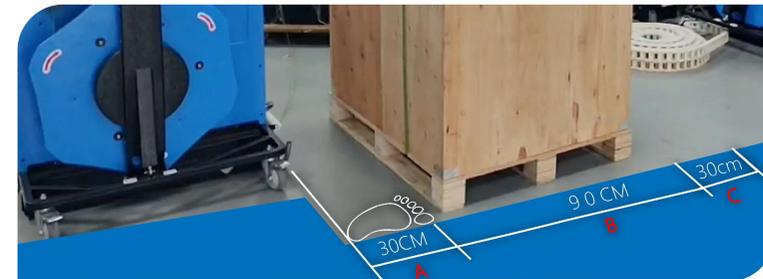


Fig42

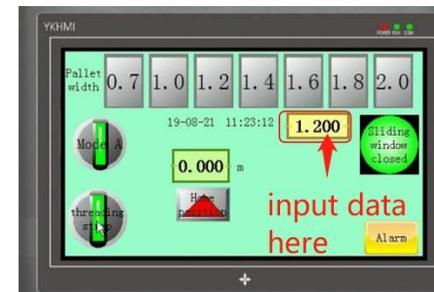


Fig43

## 6. Operation

4. Move the chainlance by pushing the joystick forwards in the " move out direction ".The reversing sledge leads the strap through and under the pallet and back up again in the rear and over the pallet .



Fig44



Fig45



**Note :Make sure the drawing head is towards the middle of the pallet hole**

5. Release the joystick when the chainlance moves over the package to the operators left hand side when the package is low . If the goods are high and over 1.5 meters , when pushing the joystick in the forward direction , the operator should always be ready to catch the drawing head with his left hand to prevent the drawing head from falling and injuring or damaging the touch screen. Shown as picture 46 . Do not let the chainlance drop onto the package !



Fig46

**Note :As soon as you have caught the chain trace , please release the joystick and get ready to hold the strap**



Fig47

## 6. Operation

6. Hold the front of strap with the left hand as shown, move the chainlance completely backwards by pulling the joystick backwards in the " move-in " direction with the right hand .

**Note :** Always keep the strap slightly under tension when moving the ChainLance backwards so that no loops can be formed or pushed into the device as this can lead to faults.

**Note:** You have to hold the strap loosely in your hand when the strap lift arm rises. The strap lift arm can be raised up again by repeatedly pushing the joystick in the "move in direction".



Fig48



Fig49



Fig50

## 6. Operation

7.The strap lift arm comes up automatically after the reversing sledge moves back into the machine.At the same time,you have to let the strap slide through your left hand,otherwise, the strap lift arm will not be able to rise.

The strap lift arm will give you the strap up to the working height so that you can take it into your hand without a bend-over.

**Note:**

*Keep pushing the joystick until the strap lift arm is completely in its top position.The strap lift arm automatically moves down again after 2 seconds. (The strap lift arm will not go down automatically after 2 seconds if the upper position has not been reached successfully)*



Fig51



Fig52

## 6. Operation

### 6.3 Strapping and sealing

#### Step1

Stack the straps and make sure the end of the strap lies underneath.

**Note:**

*Make sure the chainlance is backwards completely to avoid the lift arm falling on the reversing sledge (reversing head).*



Fig53

#### Step2

Then hold both straps as shown with the right hand.

**Note :** *Using the Hegu ( space between thumb and forefinger) restrict the strap ,shown as picture, will make it much easier to put the straps into sealing head.*



Fig54

## 6. Operation

### Step3

Push the sealing tool on the tool lifer towards the pallet with the left hand and tilt it forward at the same time so that the sealing head is parallel to the package surface.



Fig55

### Step5

Pull the rocker lever (or called lift handle )of sealing head with the left hand and then feed the strap from the top to the bottom through the slot in the sealing head.



Fig56

## 6. Operation

### Step6

Now let go of the rocker lever and tension , seal the strap

### Step7

Then pull the rocker lever to move back the sealing head.

**Note :** More details about sealing head operation, please reference the sealing heads manual accordingly



Fig57



Fig58

## 7. Secure Movement and Parking

### 7.1 Moving the strapping machine system

The system can be pushed in an upright position with the two hand grips at the head of the frame plate(machine). For pushing it you must release the brakes of the two guide wheels at the disc side

### 7.2 Parking the system

After rolling machine system in position, you have to lock up the brakes of the two guide wheels to avoid that machine moving away accidentally, especially, when the ground is not plane . Furthermore , you have to make sure that the chain trace is completely drawn back in and that the power switch is off and no access for unauthorized persons.



Fig59

## 8.Servicing and repair

### 8.1 Cleaning the ChainLance

Clean the ChainLance with acetone or petroleum or banana oil if it has become dirty.

- \* Do not place the ChainLance in the cleaner.
- \* Never use other lubricants such as fat or oil, etc

Step:

1.Turn on power

2.Turn "standard mode " to "Chain/pass " mode.  
Move the chainlance out by pushing the joystick forward.

3.Use a clear dishcloth with clearer (banana oil) to sweep the dirty on the chain lance link unit one by one.



Fig60

## 8.Servicing and repair

### 8.2 Replacing the Upper ChainLance

Step:

1.Turn on the palletsystem , then pull the joystick backwards/forwards to reset chainlance back at the original point , Switch it on the "standard" mode.

2. Cut the straps ,if there is PET straps roll threading in the system and then pull the straps out of the system.



Fig61



Fig62

## 8.Servicing and repair

3.Set the pallet width parameter at its max 2.0meter.



Fig63

4.Then push the joystick in the forward direction to pull the reversing sledge out about 2.0 meters and keep pusing joystick forward until the upper chainlance comes out at several meters long(if there is another worker,he can roll the upper chailance at the same time)



Fig64



Fig65



Fig66

5.Pull out the chainlance out of the system as shown.

## 8.Servicing and repair

4.Fold down the disc arm downwards.And loose the screws and open the metal cover at the bottom as picture shown. *Fig67*



*Fig67*

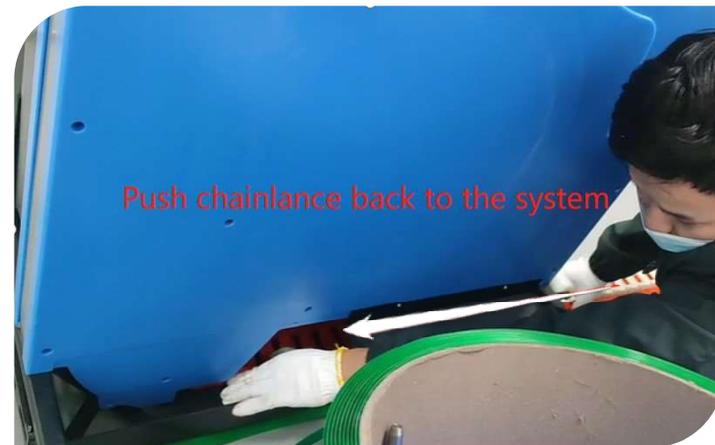


*Fig68*

5.Push the new chain in the opposite direction . When pushing about two meters , you feel clearly that the chainlance is occluded with the main machine gear.



*Fig70*



*Fig69*

**Note :**

**\*Make sure the new chainlance is made up of 210 pcs chainlance link unit (total length about:9.05m).**

**\*If it can't be pushed, open the sliding window and check here. It may be stuck**

## 8.Servicing and repair

6.Then switch on the power and adjust the pallet system working mode to " chain/pass" mode .

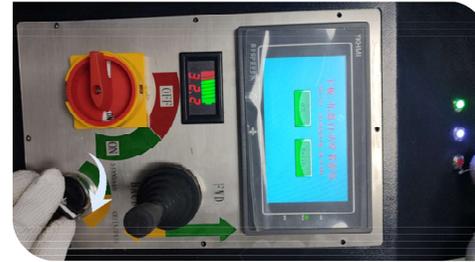


Fig80

7.Then pull/push the joystick in the backwards direction until the chainlance is fully retracted into the machine



Fig89

## 8.Servicing and repair

### 8.3 Replacing the Lower ChainLance

Please reference 8.2



Fig90

## 8.Servicing and repair

### 8.4Replacing individual chain links

Use a screwdriver to push between the sides of the upper chain links and carefully turn the Screwdriver to twist the sides apart until both chain links can be completely separated from each other.

Assemble chain links as shown *Fig92*



*Fig91*



*Fig92*

## 8.Servicing and repair

### 8.5 Replacing the reversing sledge

#### Step

1. Turn on the pallet system. Pull the joystick backwards/forwards to reset the chainlance back to the origin position. And set the pallet width parameter at 1.2 meter (for example)

2. Pull the reversing sledge by about 1.2m out of the device, fold up the hinge at the reversing sledge and pull out approx 60cm of the chain upwards as illustrated.

3. Pull out the strap, if there is strap threading on the drawing head.

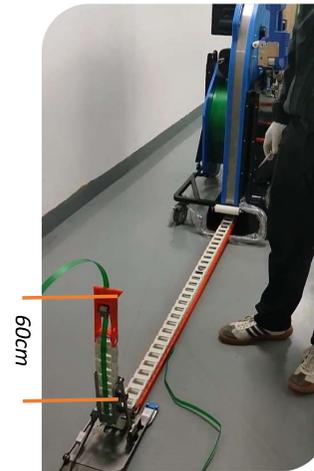


Fig93



Fig94

## 8. Servicing and repair

4. Use a screwdriver to push between the sides of the upper chain links and carefully turn the Screwdriver to twist the sides apart until both chain links can be completely separated from each other. And take down the drawing head and pull the reversing sledge to let the upper chain lance out.



Fig95



Fig96



Fig97



Fig98

5. Use a screwdriver to push between the sides of the lower chain links and carefully turn the Screwdriver to twist the sides apart until both chain links can be completely separated from each other. And take down the reversing sledge.

## 8.Servicing and repair

6.Install the new reversing sledge as shown



Fig99



Fig100

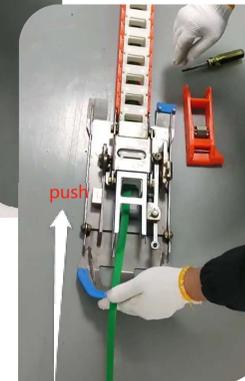


Fig101



Fig102

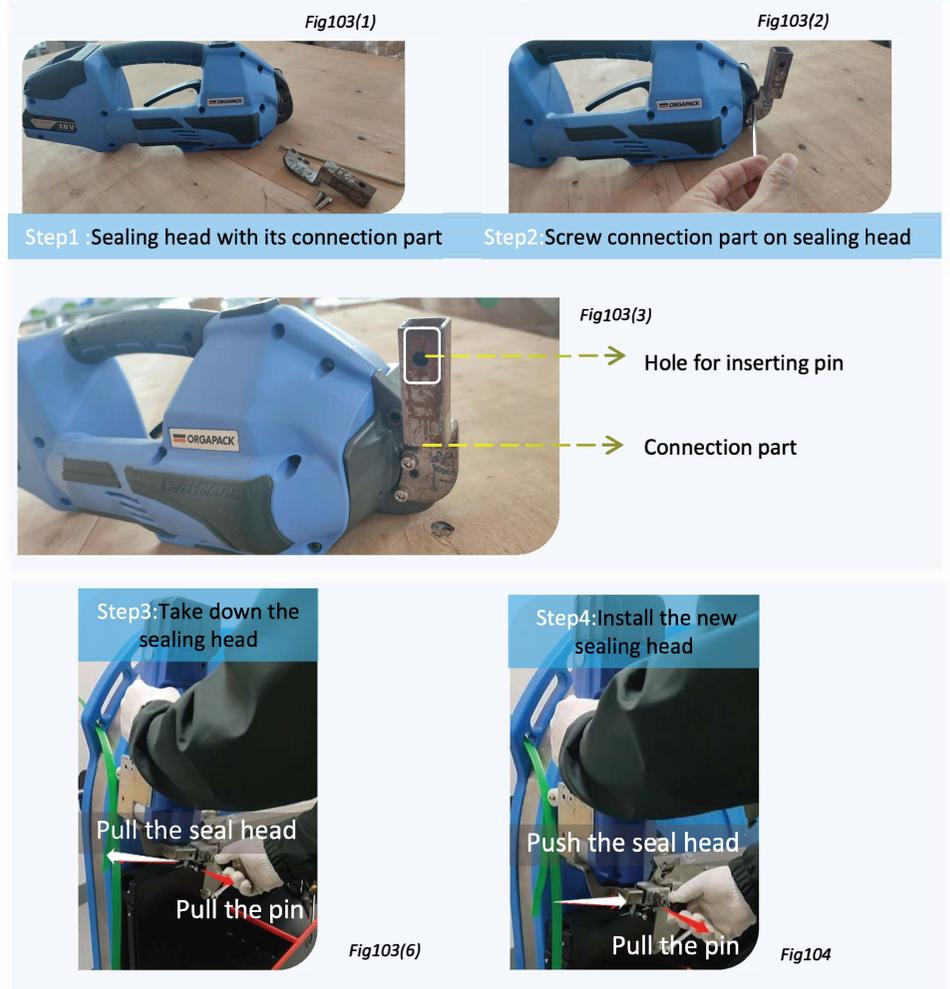
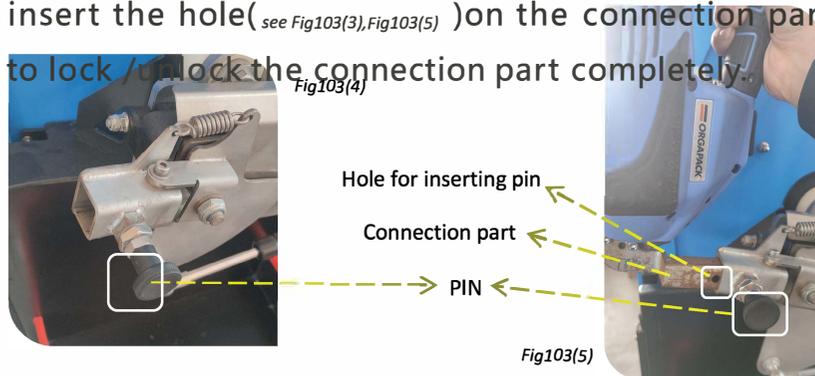
**Note :When assemble the drawing head back, please keep it at the correct side**

## 8. Servicing and repair

### 8.6 Replace the sealing head

Different sealing head with different connection part (see Page50) to installed on the BP-888 .The connection parts can be customized. Please choose the correct connection part accordingly. And then screw the connection part on the sealing head. Shown in the pictures (Fig103(1),Fig103(2),Fig103(3) )for details.

Then Just pull the pin to take down or install the sealing head ( see Fig103(6),Fig104 ). Make sure the pin insert the hole( see Fig103(3),Fig103(5) ) on the connection part to lock /unlock the connection part completely.



## 8.Servicing and repair

### 8.7 Replacing the battery

Loose the screws (total 6 ) shown in the picture and then open the black cover, take out the battery with care.

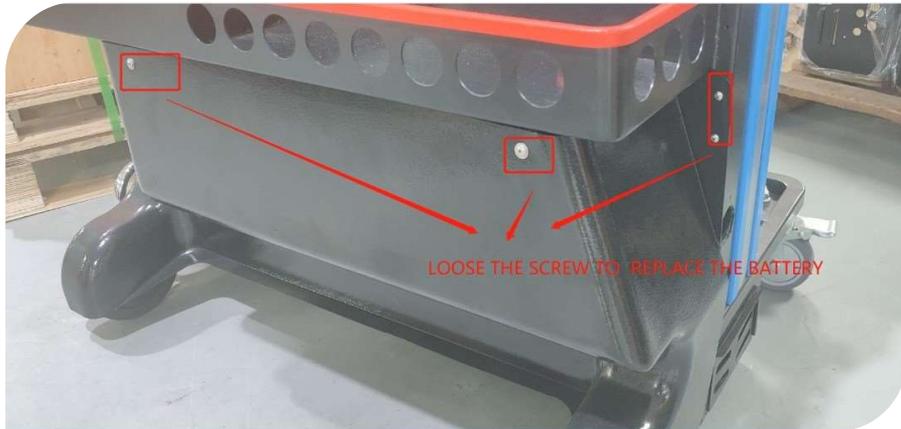


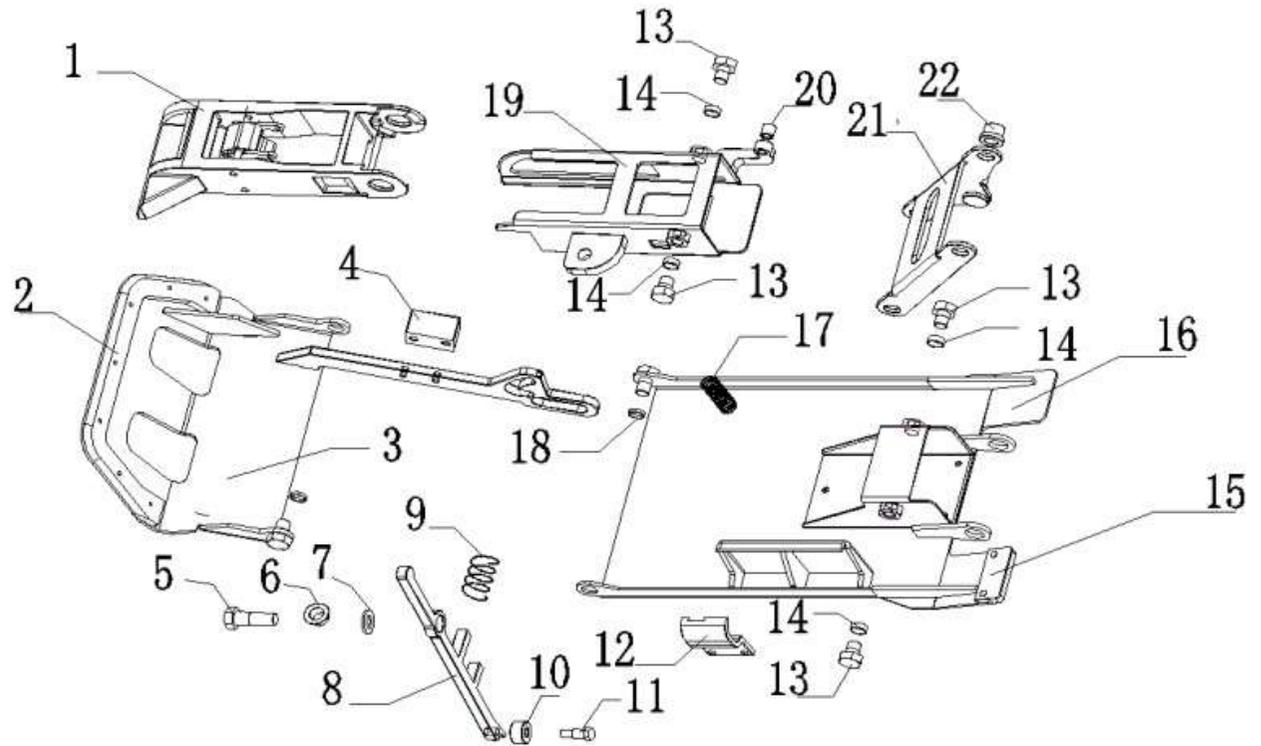
Fig105



Fig106

## 9.Main spare parts introduction

### 9.1 Reversing sledge



Reversing sledge exploded view

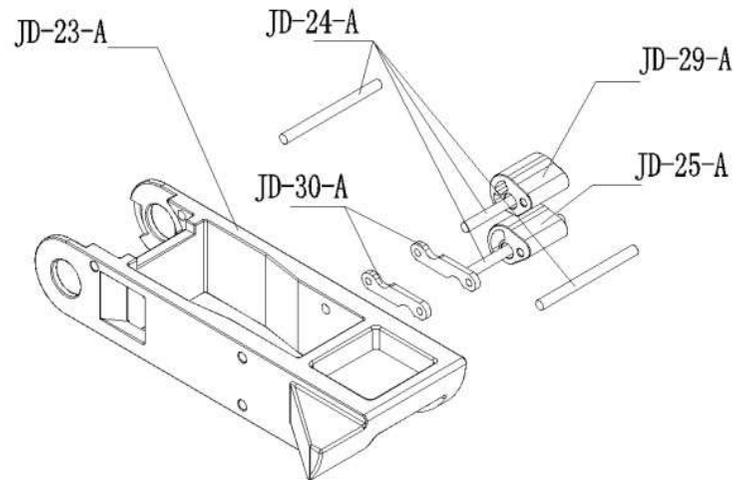
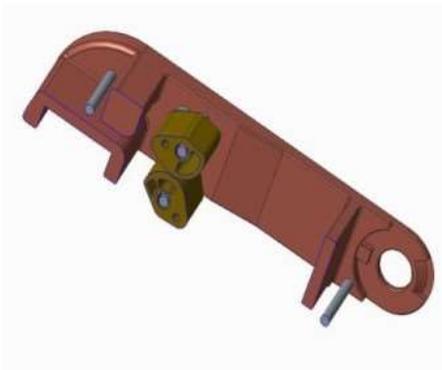
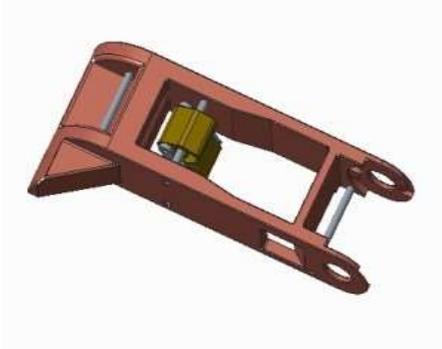
## 9.Main spare parts introduction

Serial No.	Parts No.	Description	QTY	Remark
1	JD-22-A	Drawing head	1	Assembling unit
2	JD-37-A	Front glue	1	Nylon parts
3	JD-32-A	Front guide board	1	Assembling unit
4	JD-38-A	Spring pocket	1	Nylon parts
5	JD-19-A	Stud bolt	1	
6	JD-16-A	Shaft copper bush	1	
7	JD-18-A	Rod Spacer	1	
8	JD-17-A	Shaft	1	
9	JD-44-A	Shaft spring	1	
10	JD-20-A	Shaft guide pulley	1	
11	JD-21-A	Rod regulating bolt	1	
12	0002-624	Rod guiding wheel limit sleeve	1	
13	JD-42-A	Fixed bolt	4	
14	JD-41-A	3.5mm lubrication bushing	4	
15	JD-40-A	Backside glue	1	Nylon Parts
16	JD-01-A	Body frame	1	Assembling unit
17	JD-45-A	Guide spring	1	
18	JD-39-A	2.5mm Lubrication Bushing	2	
19	JD-13-A	Drawing head support	1	Assembling unit
20	JD-902-A	Angel Limit sleeve	1	
21	JD-09-A	Flip Joint	1	Assembling unit
22	JD-43-A	Limit step cover	1	

*Reversing sledge parts list*

## 8.Servicing and repair

### 9.2 Drawing Head

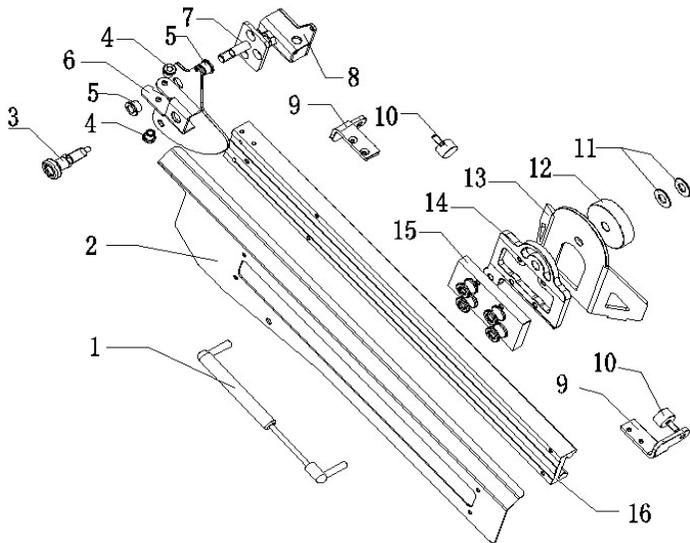
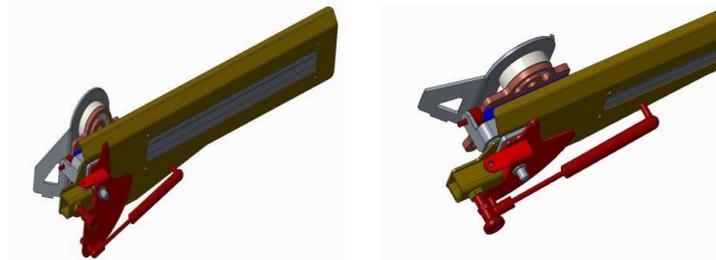


Drawing head parts no.	Description	Qty.	Remark
JD-23-A	Drawing head body frame	1	Injection molded
JD-24-A	Drawing head pin	4	
JD-25-A	Eccentric cam A	1	
JD-29-A	Eccentric can B	1	
JD-30-A	Eccentric can retainer ring	2	

*Drawing head Parts list*

## 8.Servicing and repair

### 9.3 Tool-lift



Serial No.	Parts No.	Description	QTY	Remark
1	C-16P	Pneumatic spring	1	Spring pressure at 90N
2	C-12	Head metal cover	1	SUS material
3	C-11	Quick Plug and pin	1	M12-06
4	C-10	Head frame vertical copper bush	2	
5	C-05C	Head frame horizontal copper bush	2	
6	C-07/C-08	Head frame vertical Rotate metal parts	1	Welded integral
7	C-06	M10 Fastener	1	
8	C-09	Head frame horizontal rotate metal part	1	Welded integral
9	C-02	Limit block bracket	2	
10	C-03	VE rubber damper	2	M6
11	C-19	Nylon sheet	2	
12	C-13	Nylon spacer	1	
13	C-18	Head frame mounting base	1	Same body with frame
14	CP-15	Slide mounting base	1	
15	C-22	Double axis slider	1	
16	C-21	Double axis guide rail	1	
17			1	

*Tool-lift parts list*

## 8.Servicing and repair

### 9.4 Chainlance link unit

The white is upper chainlance link unit,while the orange is lower chainlance link unit.Please refer to 8.4 about it assemble and diassemble.



Fig107

## 10. Service and warranty matters

10.1 Repair your power tools by qualified maintenance personnel using the same replacement parts . This will ensure that the safety of power tools is maintained.

10.2 The equipment shall be guaranteed for one year.

10.3 In case of any of the following circumstances during the use of the product , the company shall not assume warranty obligations

- \* Product damage caused by use in violation of the operating Instructions.
- \* Damage caused by improper installation or assemble.
- \* Damage caused by exceeding the operating environment .
- \* Damage caused by unauthorized demolition , modification and maintenance.
- \* Product damage caused by abnormal external force.
- \* Product damage caused by natural disasters or other force majeure.

10.4 For quality problems caused within the warranty scope , the company shall only be responsible for the product itself , and shall not assume extension responsibilities.

## 10. Service and warranty matters

### 10.5 Tool box packing list

Tool description	Picture	QTY	Remark
Screw Driver		2sets	
Open Spanner		5sets	
manual		1 pcs	
Allen Wrench		1sets	
Screw		6pcs	
Bolt		1set	
Chainlance link unit		3sets	

*Packing list for tool box*

## 11.Declaration about sealing heads

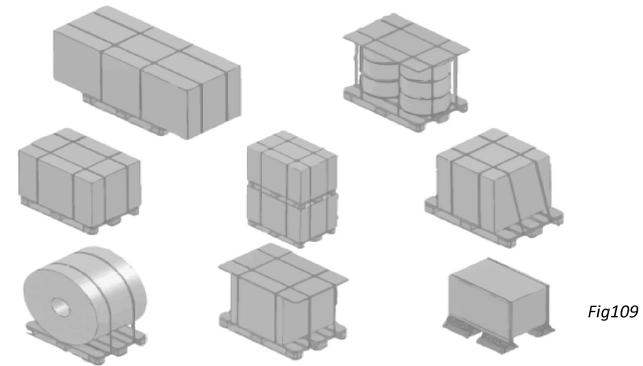
1. We hereby declare the BP-888 is designed for most sealing heads(or called strapping tools), which can be installed on BP-888 by their connection parts accordingly. So in this manual, you can see different sealing heads on BP-888. However, the BP-888 manual here does not introduce the operation of the sealing head in detail, please refer to the corresponding sealing head instructions separately for details

2. The recommended sealing heads and the connection parts are as below for information, if other kinds of sealing heads are required to install on BP-888, please confirm the feasibility verification with the manufacturer first.



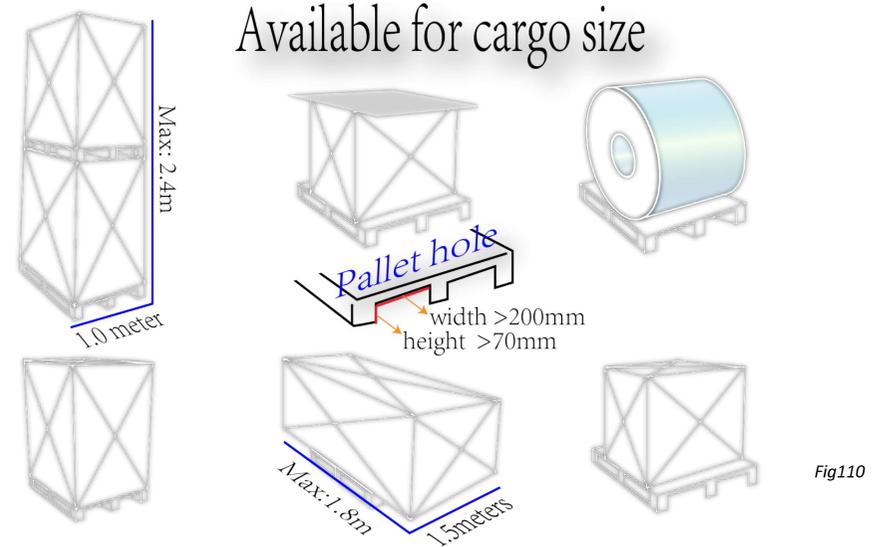
## 12.Applicaition of Pallet strapping system JD-008

1.Application for the pallet cargo as picture *Fig109*



2.Some requirements and recommendation for pallet and cargo sizes. Please see picture *Fig110*

**Note:**  
All pictures are just for reference only. And If JD-008 is used for special pallet cargoes strapping, the equipment demander and the equipment supplier shall fully communicate and verify.



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