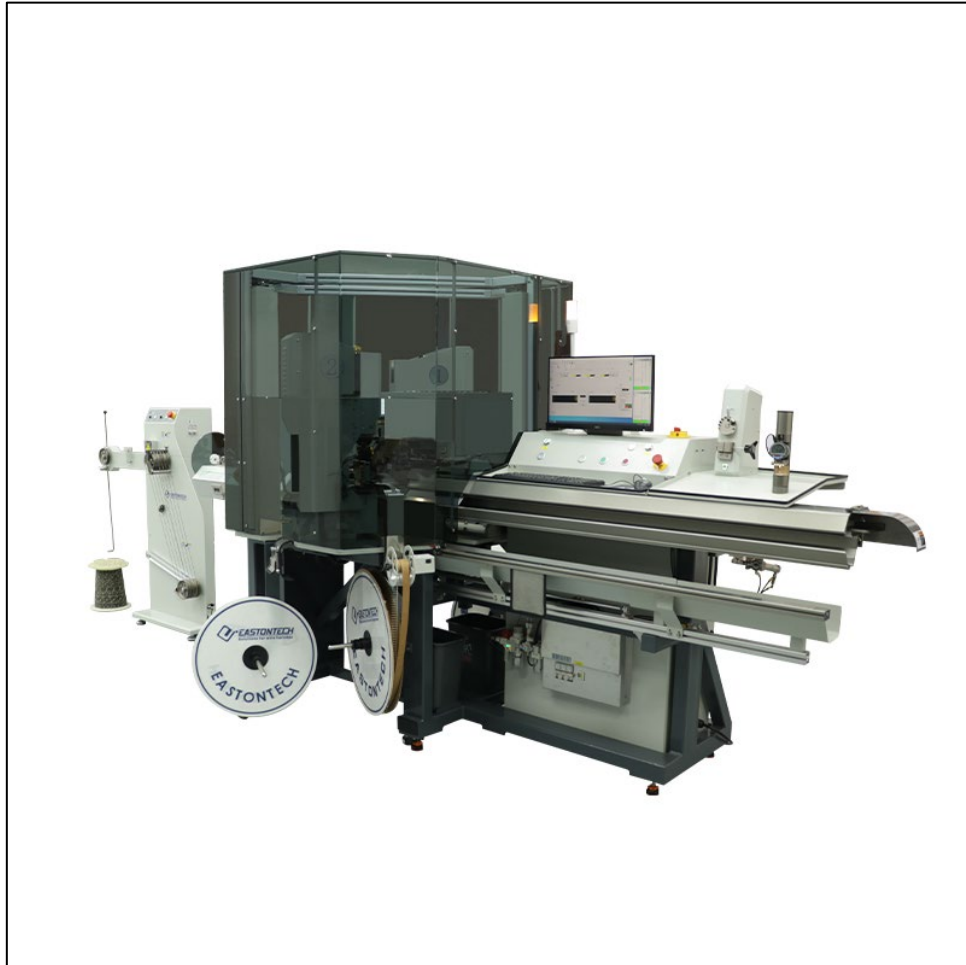


# **Automatic crimping machine**

## **Operation Manual**

### **(FOR EW-8075)**



# Catalog

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# 1. Preface

Dear users:

First of all, thank you for using this equipment. You use this 3.0 series automatic terminal crimping machine, which will enable your enterprise to obtain modern, efficient and reliable production process.

Before using this device, please read this manual carefully to improve your company's production efficiency and reduce unnecessary risks.

The installation and operation of the equipment shall be carried out by qualified personnel who are familiar with and comply with the contents of this manual.

If you find any problems or deficiencies with the device while reading and using it, please report them to us. We appreciate your criticism and suggestions on this aspect.

For this reason, we provide you with the operation instructions in print form and PDF version, if you have any questions, please call us at any time.

## 2. Product overview

### 1.1 product description :

This equipment has high level of processing capacity and processing accuracy excellent products, using unique drive system, high speed control technology and high rigidity drive structure, to meet a variety of processing needs of the automotive, electronic harness industry.

Product features:

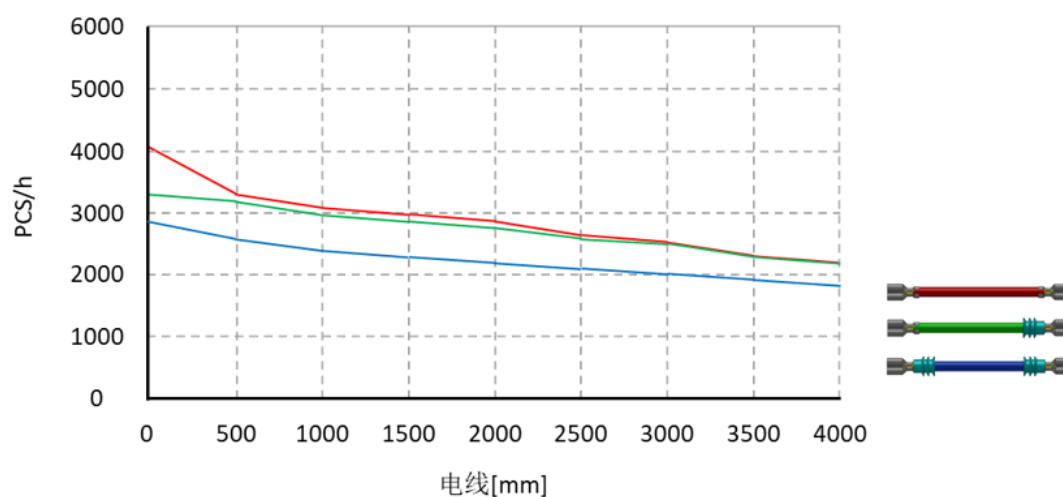
1. International personalized appearance design, the overall structure is firm, simple and generous.
2. The operating system of the industrial control computer is adopted, the operation interface is simple and reasonable, the operation of the machine can be quickly mastered, all parameters can be easily set and stored, the operation instruction is displayed with images, intuitive and simple.
3. The powerful EtherCAT technology ensures the best process, high accuracy, fast response and real-time monitoring.
4. The crimping machine adopts imported high precision servo motor, with high crimping accuracy and strong stability.
5. All pneumatic components are imported SMC, which is efficient, stable and has a long service life.
6. Fully automatic adjustment of mold crimping height to complete the realization of automatic operation.
7. The full closed-loop wire feeding system is adopted, and the synchronous belt wire feeding device ensures the surface damage of wire and improves the wire feeding accuracy.
8. Optional QR code gun and QR code printer for data management and storage.

## technical parameter

| order number | Parameter items         | explain                                        |
|--------------|-------------------------|------------------------------------------------|
| 1            | conductor cross-section | 0.22-6 mm <sup>2</sup> (special customization) |
| 2            | shearing length         | 60-20000mm (special customization)             |
| 3            | Length accuracy         | $\pm (0.2\%*L+1)$ mm                           |
| 4            | Peeling length          | 0.1-18mm                                       |
| 5            | Wire feeding speed      | Maximum 10.0 m/s                               |
| 6            | Cable management system | 2M,4M,6M,8M (special customization)            |
| 7            | Pressing power          | 25KN                                           |
| 8            | source                  | 220V 50HZ                                      |
| 9            | air supply              | 0.5-0.7Mpa                                     |
| 10           | weight                  | 1100KG                                         |
| 11           | outline dimension       | 3730×1650×2090 (2M cable)                      |
| 12           | Use the mold range      | 30mm, 40mm stroke mold optional.               |

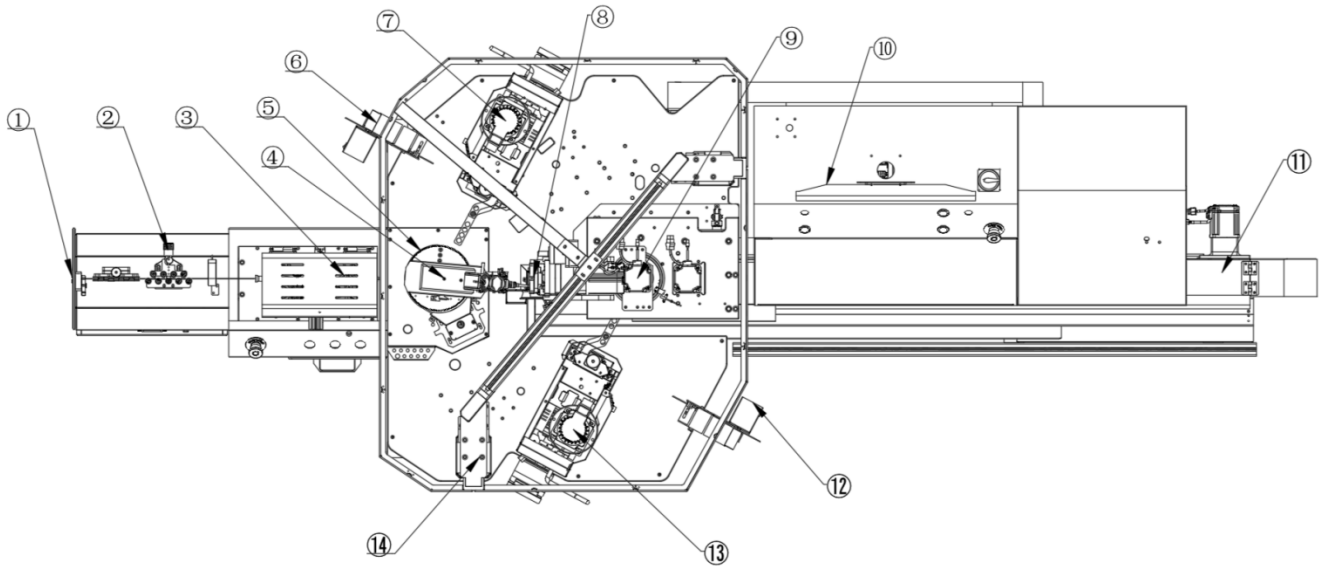
## 1.2 Equipment capacity description:

Production capacity chart (standard equipment configuration data).



## 3.General mechanical drawing and function introduction

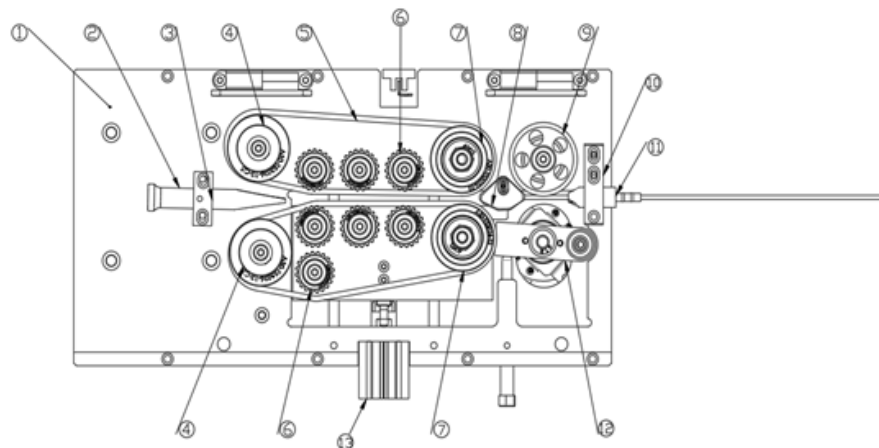
### 3.1 General drawing and general drawing description:



| order number | name                       | order number | name                                                         |
|--------------|----------------------------|--------------|--------------------------------------------------------------|
| 1            | entrance hole              | 8            | The cutting part                                             |
| 2            | aligner                    | 9            | The second zone is peeled and rotated to press the structure |
| 3            | Wire delivery structure    | 10           | Operation of the equipment display                           |
| 4            | One zone peeling structure | 11           | take-up                                                      |

|   |                                                                 |    |                                                                        |
|---|-----------------------------------------------------------------|----|------------------------------------------------------------------------|
| 5 | One area rotary crimping structure                              | 12 | Two horizontal terminal baffle plates and paper collector in section 2 |
| 6 | One horizontal terminal baffle and paper collector in section 1 | 13 | Two zone crimping machine                                              |
| 7 | One zone crimping machine                                       | 14 | Cover lifting cylinder                                                 |

### 3.2 Pulley wire feeding device:



| order number | name                                                  | order number | name                              |
|--------------|-------------------------------------------------------|--------------|-----------------------------------|
| 1            | Send line structure motherboard                       | 8            | Wire guide seat                   |
| 2            | Inlet conduit                                         | 9            | Send the encoder driving wheel    |
| 3            | Inlet conduit fixing seat                             | 10           | Outgoing conduit seat             |
| 4            | The wire feeding device actively feeds the wire wheel | 11           | Lead-out conduit                  |
| 5            | Send the belt                                         | 12           | Send wire encoder fixed structure |

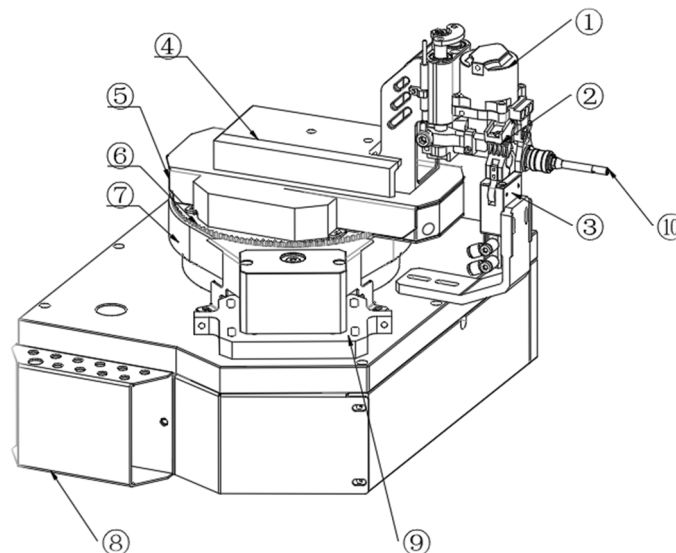
|   |                                                          |    |                                       |
|---|----------------------------------------------------------|----|---------------------------------------|
| 6 | The wire feeding device has a passive pressure wheel     | 13 | The conveyor belt pushes the cylinder |
| 7 | The wire feeding device has a passive wire feeding wheel | 14 |                                       |

Function of belt feeding device:

Maximum wire speed 10M/S;

The wire introduction device transmits the wire and measures its exact length. An AC servo motor and a length measurement encoder are installed inside the wire feeding device. The value of the internal encoder of the servo motor is compared with that of the length measurement encoder to ensure the accuracy of the wire feeding length.

### 3.3 Rotating pull-off device of Zone I:



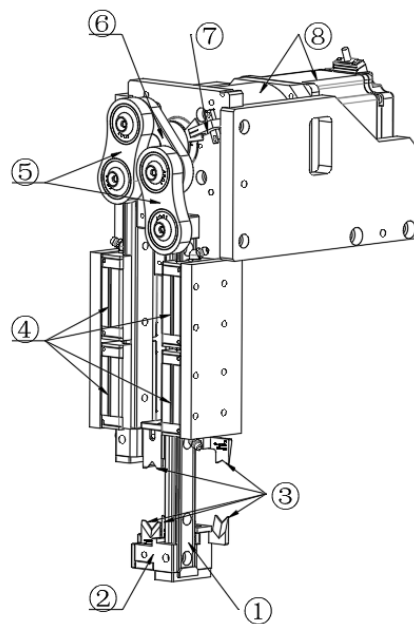
| order | name | order | name |
|-------|------|-------|------|
|-------|------|-------|------|

| number |                                  | number |                                            |
|--------|----------------------------------|--------|--------------------------------------------|
| 1      | Clamping cylinder in zone 1      | 6      | One area rotary mechanism                  |
| 2      | One zone clamps                  | 7      | One zone rotating belt                     |
| 3      | Auxiliary wire clamps for zone 1 | 8      | Conduit placement rack                     |
| 4      | The first area has a fixed seat  | 9      | Adjustment seat of rotating belt in zone 1 |
| 5      | One district, a Lado institution | 10     | Wire conduit in section 1                  |

Function of the rotating pull-off device in Zone 1:

1. The taping device is controlled by the servo motor to control the peeling length and processing position of one area through linear motion.
2. The rotary device is used to send the wire to the next process for reciprocating processing by rotating through the servo motor after the peeling action is completed.

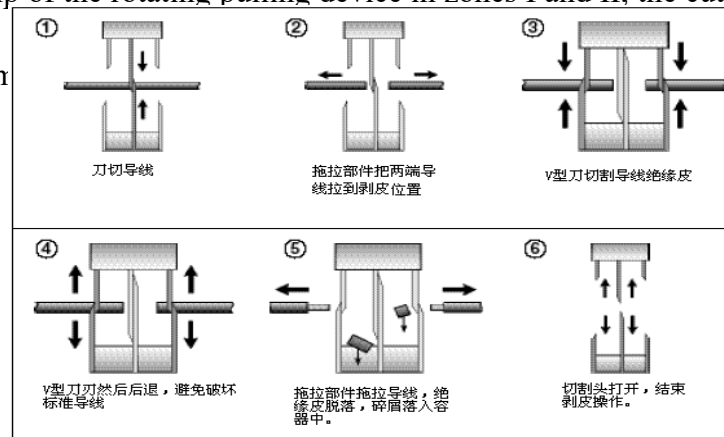
### 3.4 Cutting and peeling device



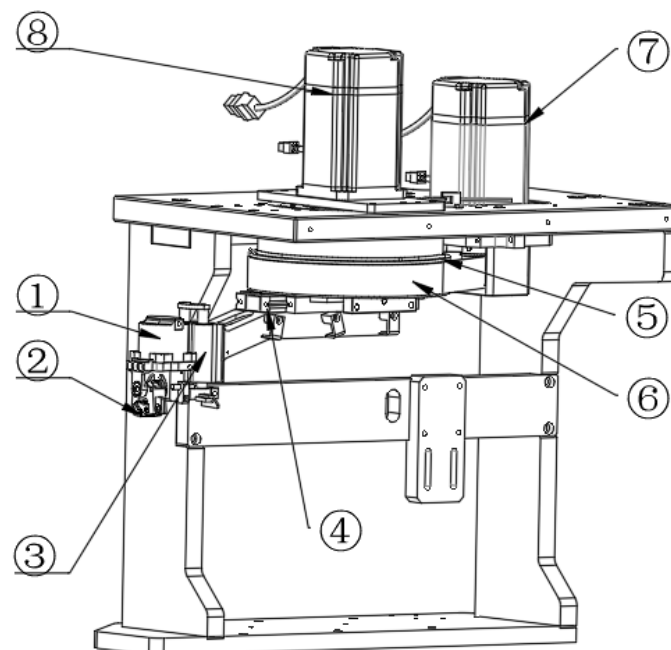
| order number | name                           | order number | name                                               |
|--------------|--------------------------------|--------------|----------------------------------------------------|
| 1            | Up and down moving guide rails | 5            | The knife holder is connected to the movable plate |
| 2            | Wire stripping knife seat      | 6            | The knife holder is connected to the spindle       |
| 3            | Cut and peel the blade         | 7            | Close to the sensor                                |
| 4            | Guide slider                   | 8            | Reducer and cutting blade servo motor              |

Cutting and peeling device function:

With the help of the rotating pulling device in zones I and II, the cutting knife cuts the wire and removes the insulation.



### 3.5 Two-zone rotary pull-off device:



| order number | name                       | order number | name               |
|--------------|----------------------------|--------------|--------------------|
| 1            | Clamping cylinder for zone | 5            | Second zone rotary |
| 2            |                            |              | mechanism          |

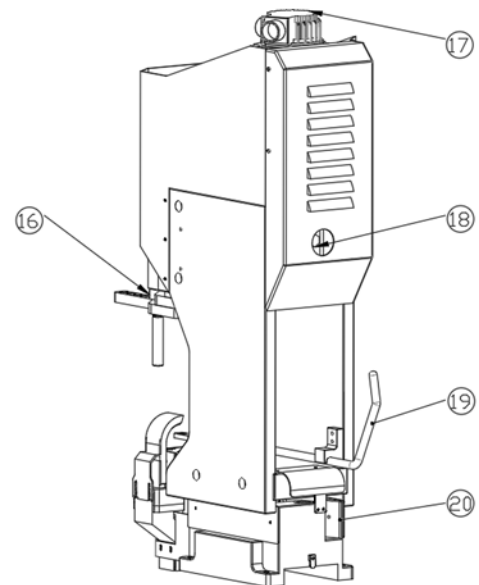
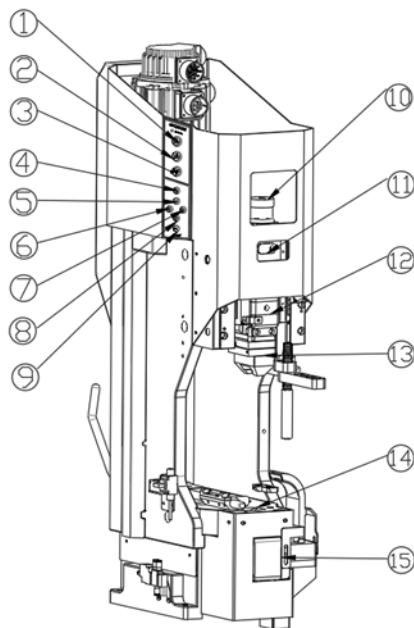
|   |                                             |   |                             |
|---|---------------------------------------------|---|-----------------------------|
| 2 | Clamping jaws in zone 2                     | 6 | Second zone rotary belt     |
| 3 | The second zone handle is fixed to the seat | 7 | Two zone rotary servo motor |
| 4 | District 2 detachment                       | 8 | Two zone Lado servo motor   |

Two-zone rotary pull-off device:

1. The peeling and pulling device of the second zone also controls the peeling length and processing position of the second zone by linear motion through a servo motor.

The rotary device in zone 2 rotates the wire to the next process after the stripping of the wire is completed, and the wire is placed together with the conveyor belt after the processing of the wire is completed.

### 3.6 Vias 1 and 2 crimping machine devices:



| order number | name                                                        | order number | name                                   |
|--------------|-------------------------------------------------------------|--------------|----------------------------------------|
| 1            | Single pressing action of crimping machine                  | 11           | Adjust the control rod with screws     |
| 2            | The crimping machine moves upward                           | 12           | Adjust the pressure block fixing plate |
| 3            | The crimping machine moves down                             | 13           | Mold head                              |
| 4            | Positioning of crimping positions in zone 1 (zone 2)        | 14           | Mold bottom plate                      |
| 5            | Move the first (second) zone pulling device forward         | 15           | Terminal scrap tape cutting device     |
| 6            | The rotating device of area 1 (area 2) is moved to the left | 16           | Lower the guide rod                    |
| 7            | Move the pull-off device in area 1 (area 2) backward        | 17           | Vibration welding machine servo motor  |
| 8            | The rotary device of area 1                                 | 18           | Manually adjust the hand               |

|    |                                |    |                                         |
|----|--------------------------------|----|-----------------------------------------|
|    | (area 2) moves to the right    |    | crank socket                            |
| 9  | Confirm key                    | 19 | Lock the mold handle                    |
| 10 | Adjust the crimping height rod | 20 | Pressing machine lifting adjustment rod |

Functions of crimping machine:

Terminal crimping machines also using servo motors can be equipped with 30/40 stroke mechanical molds and pneumatic molds.

### 3.7 Conveyor belt device:



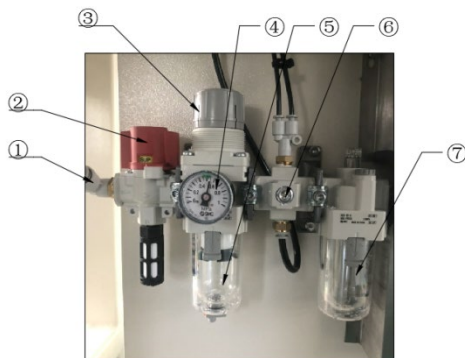
| order number | name                               | order number | name                  |
|--------------|------------------------------------|--------------|-----------------------|
| 1            | From the driven transmission wheel | 5            | Active transfer wheel |
| 2            | Transport belt                     | 6            | Conveyor belt motor   |
| 3            | Cable trough working cylinder      | 7            | The outlet tray       |
| 4            | Cable trough                       |              |                       |

Function of the winding device:

The processed wire is put into the flipping groove through the conveyor belt. When this batch of processing is completed, the flipping groove will pour these wires into the secondary wire groove, and the secondary wire groove will push out the wires so that the wires can be safely removed.

### 3.8 Pneumatic component:

#### 3.4.1 Intake treatment:



| order number | name                      | order number | name                     |
|--------------|---------------------------|--------------|--------------------------|
| 1            | Air source interface      | 5            | Water separator cup      |
| 2            | General gas source switch | 6            | Air separation connector |
| 3            | Centralized pressure      | 7            | grease cup               |
| 4            | Total pressure gauge      |              |                          |

#### 3.4.2 Bronchial regulation:



| order number | name                                           |
|--------------|------------------------------------------------|
| 1            | Pressure adjustment of the wire feeding device |
| 2            | Adjust the air pressure of the clamp in area 1 |
| 3            | Air pressure adjustment of clamps              |

### 3.9 Storage place of maintenance tools and waste material treatment:

#### 3.9.1 Tool storage:



Tool storage:  
Can be used for storage of maintenance tools and catheters.

#### 3.9.2 Waste box:



Waste box:  
Used for storing waste insulation skin.

## **4.Safety tips**

### **4.1 General Provisions:**

All personnel who operate this equipment or may come into contact with this equipment must understand the relevant contents of this manual. This chapter (Safety Tips) is very important.

### **4.2 Neglect of safety tips:**

Each unit will be inspected and finally tested before shipment to ensure its normal machine performance. Our company will not be liable for any damage caused by non-compliance with safety instructions. In particular, damage caused by the following reasons:

- Abnormal use and operation or use beyond the technical scope.
- Failure to comply with safety instructions given in the operating manual.
- Improper or no regular maintenance.

### **4.3 Technical transformation:**

Without the written permission of the company, no expansion or modification of the equipment shall be made, nor shall it be used for purposes beyond the technical scope.

## 4.4 Signs and symbols:

In the operation manual, you will find two different symbols used to indicate hazards and important safety information.

### 4.4.1 Hazard signs in the operation manual



Warning! This sign warns you of a danger that may immediately result in death, serious injury, permanent mental impairment or significant financial loss.

Warning! This sign reminds you of possible immediate moderate or minor injury, psychological

#### 4.4.2 Equipment safety devices and safety marks:



①

②

③

④



⑤

⑥

⑦

⑧

- ① Power switch: can cut off the power supply of the equipment.
- ② Emergency stop button: press the emergency stop switch, all movements of the equipment stop.
- ③ Confirmation key: During the setting process, press the confirmation key to move the terminal machine in area 1 (area 2).
- ④ Batch confirmation: When a batch of production is completed, you need to click batch confirmation to proceed to the next batch production.
- ⑤ Be careful! Be careful that fingers or hands are caught in the machine.
- ⑥ There may be a risk of being cut by the blade near the blade.
- ⑦ Watch out for electric shock!
- ⑧ Do not turn the gear with your hand, otherwise it will cause damage to the motor.

## 5.Lifting and handling

### 5.1 Lifting and handling:

- Please use appropriate lifting equipment to transport the 3.0 automatic terminal crimping machine (as shown in Figure 1)
- After receiving the equipment, please check whether the equipment is damaged.
- Use suitable equipment to lift/move the equipment.



(Figure 1)

## 6. Equipment operation instructions

### 6.1 Boot process:

- Rotate the main power supply of the device to the right (as shown in Figure 2) and power on the device.



( graph 2)

- Press the switch button of the industrial control computer. (as shown in Figure 3)



( graph 3)

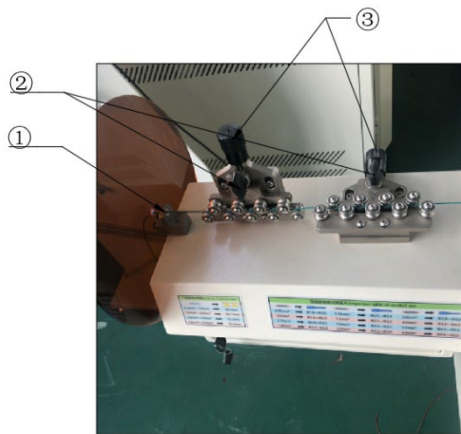
### 6.2 Shut down process:

First close the software and click X to exit the system, and then shut down the computer according to the normal shutdown process. After the computer is shut down, turn the power switch to the left to turn off the power supply. (Note: Do not cut off the power directly before the computer is shut down)

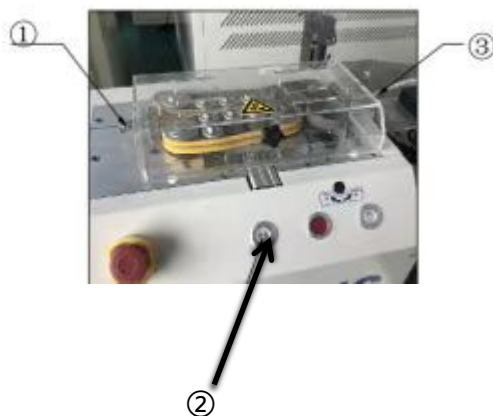
## 6.3 Wire insertion and straightening:

If the wire is fed in a direction perpendicular to the straightening wheel, choose a hole with a slot. If the wire is fed in a horizontal direction relative to the winding system, select a closed hole. Ensure that the wire is neither too tight nor too loose after passing through the hole. Adjust the straightening roller to match the wire's diameter to achieve optimal straightening results. After adjustment, pass it through the ring sensor to ensure real-time monitoring of the wire.

The adjustment steps are as follows:



graph 5

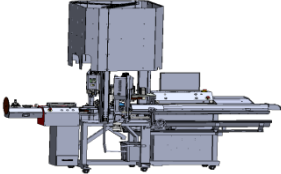


Insert the wire through hole ① in the diagram, pass it through the straightener, and rotate the straightener knob to the left to open it. After opening, thread the wire through the center and close the straightener (the straightener knob is indicated by ② in the diagram).

The straightener's adjustment for  
After straightening, the wire is  
tight inserted into the inlet conduit  
ca (shown in ①), and the manual wire  
of sending button is pressed (shown in  
sti ② ). Pay attention to the wire

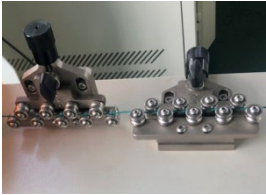
## 8.Maintenance and care

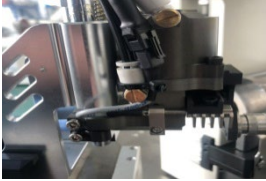
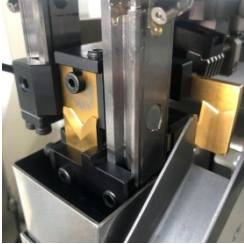
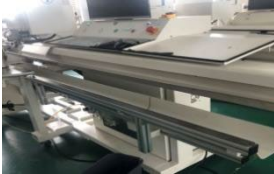
### 8.1 Maintenance overhaul

| position     | view                                                                              | Maintain content                                                                                                                                                                                                     |
|--------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| overall unit |  | <p>Remove insulation and wire residues in the machine.</p> <p>Check the pneumatic, mechanical and electrical components to see if they are normal.</p> <p>Use the crimping machine to empty the waste container.</p> |

### 8.2 Maintenance weekly

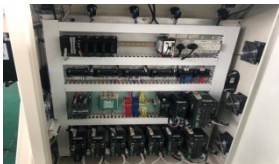
Weekly maintenance must be carried out on the basis of daily maintenance.

| position             | view                                                                                | Maintain content                                                                                                                                                          |
|----------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| pneumatics           |  | <p>Check the water separator level;</p> <p>Check the oil pressure surface of the pneumatic oil.</p>                                                                       |
| Straightening device |  | <p>Check whether the straightening roller works normally and runs smoothly, and check the basic Settings.</p>                                                             |
| Wire drive device    |  | <p>Check the wear and sediment of insulation materials, and clean them in time;</p> <p>Check the belt tightness and clean the encoder wheel with a soft copper brush.</p> |

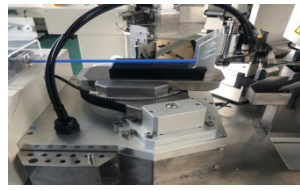
|                                        |                                                                                     |                                                                                                                     |
|----------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| Wire guide tube<br>Wire guide hose     |    | Check the degree of wear and dirt, clean it in time, remove the wire guide parts, and clean it with compressed air. |
| Rotation devices for zone 1 and zone 2 |    | Check the degree of wear and dirt of the clamp;<br>Check the flexibility of the clamp.                              |
| Cutting edge area                      |    | Check the blade wear                                                                                                |
| Batch separation by conveyor belt      |   | Check belt tightness;<br>Check whether the batch sorting machine is normal;<br>Check the lateral travel distance.   |
| coffin                                 |  | Empty the waste tank                                                                                                |

### 8.3 Monthly maintenance:

Monthly maintenance must be carried out on the basis of daily maintenance and weekly maintenance.

| position        | view                                                                                | Maintain content                                                                                                       |
|-----------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| control cabinet |  | Check whether it is running normally, clean the suction and blow outlet, and clean the interior of the control cabinet |

Rotation device for zone 1  
and zone 2



Lubricating pliers.  
Latte device:  
-Lubricating guide parts,  
teeth, etc.

## **8.4 Maintenance every six months:**

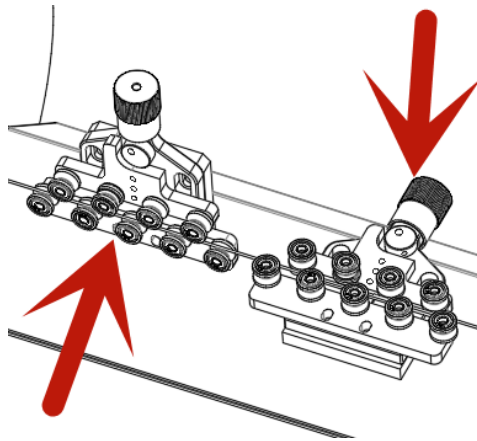
The semi-annual maintenance must be carried out on the basis of daily, weekly and monthly maintenance.

## **8.5 matters need attention :**

- Lubricating grease should be added every 50 working days.
- In order to ensure the normal operation of the crimping machine, it is necessary to clean the equipment with non-corrosive things on time.
- Every 50,000 operations should check whether the gap between the sensor and the cam is within the effective range. Every week, open the motor cover and use compressed air to clean the dust generated by the brake.
- The crimping machine should be shut down for inspection every 100,000 times of operation. The crimping machine and its accessories can be used under normal load. During the use process, the environment and materials should be appropriate, and overloading should not be used. Every 1000 hours of operation, the machine's vulnerable parts should be checked and replaced by qualified personnel.

## 8.6 Partial maintenance instructions:

### 8.6.1 Straightening part:



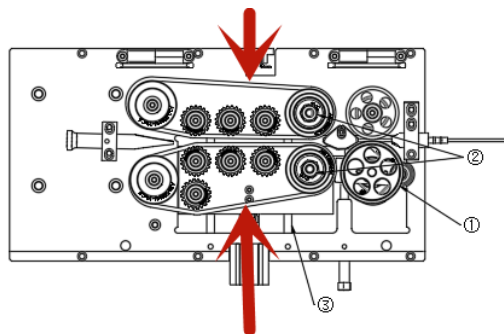
( graph 10)

The steps are as follows:

- Check that the roller is flexible.
- Remove the insulation waste from the roller.

(See Figure 10)

### 8.6.2 Wire drive device:

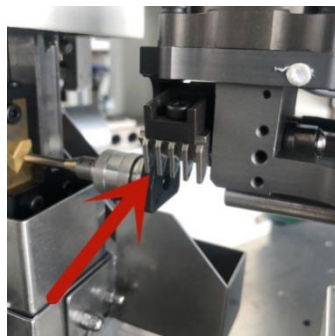


( graph 11)

The steps are as follows:

- Use a soft copper brush to clean the encoder wheel
- Check the belt tightness. To replace the wire feeding belt, cut off the power supply and air source of the equipment, remove the screw indicated by ② in the figure,

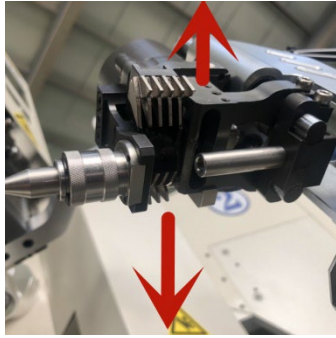
### 8.6.3 Swinging arm section:



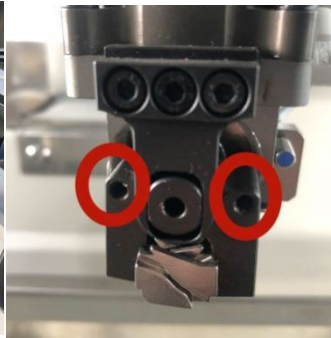
( graph 12)

The steps are as follows:

- Check the degree of wear and sediment of the jaw.
- Clean or replace the jaws. (See Figure 12)

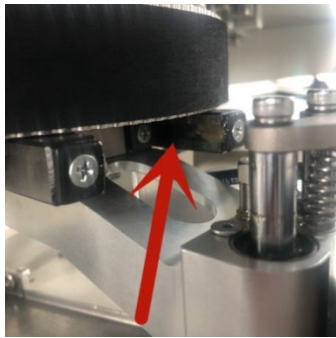


(Fig. 13) (Fig. 14)



(Fig. 13) (Fig. 14)

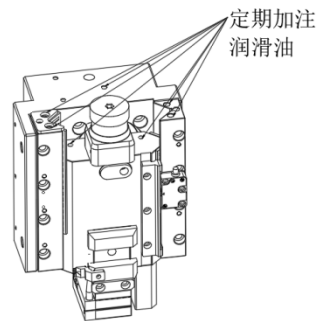
- Check that the gears are smooth with the activity gripper.
- If necessary, use a gun to fill the hole in Figure 16 with oil.



(Figure 15)

- Check whether the Lashley structure guide rail runs smoothly.
- Add lubricating oil when

#### 8.6.4 Terminal machines of Zone 1 and Zone 2:



The steps are as follows:

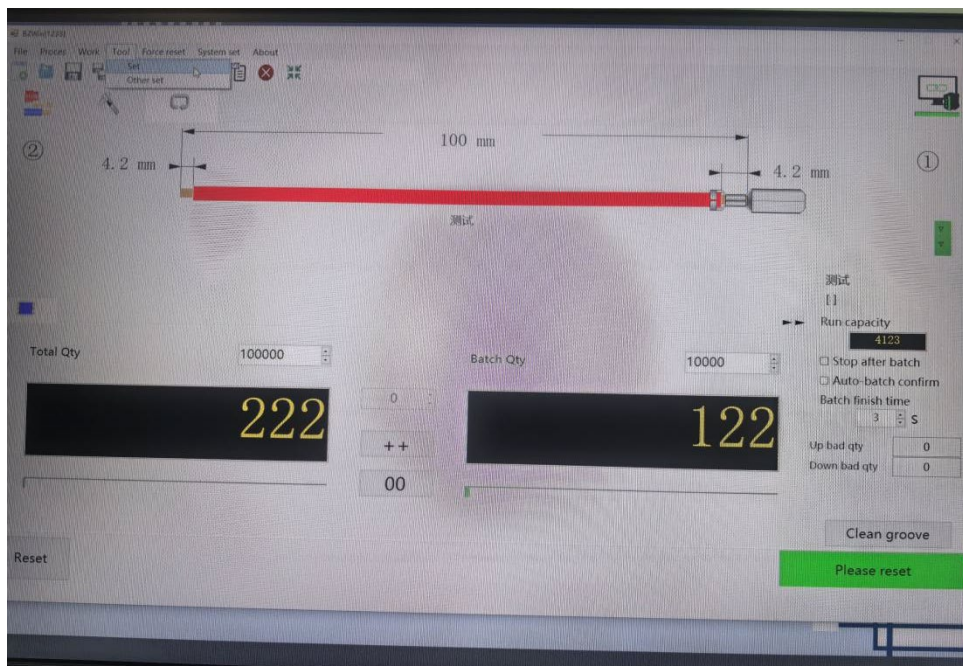
- Remove the terminal machine protective cover, and add lubricating oil to the moving parts regularly.

( graph 16)

## 8.7 Swing arm and tool setting origin:

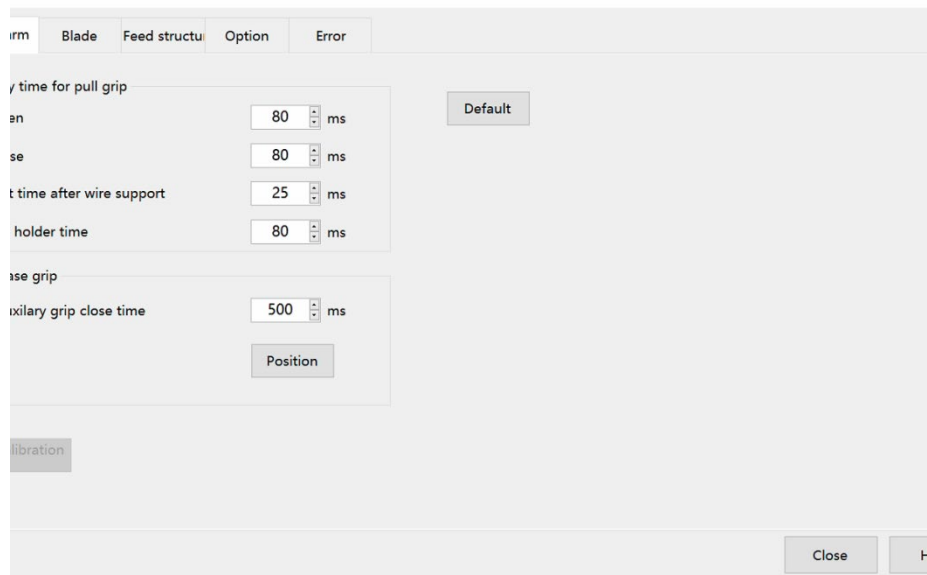
3.0 When you need to swing the arm and tool to calibrate the origin position, please follow the following steps:

- (1) Power on the device;
- (2) Double-click the desktop to open the software. (Note: After opening the software, do not reset the device.)
- (3) Click the icon Tool in the upper left corner, click Set, and enter the configuration interface. (As shown in Figure 17)

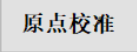


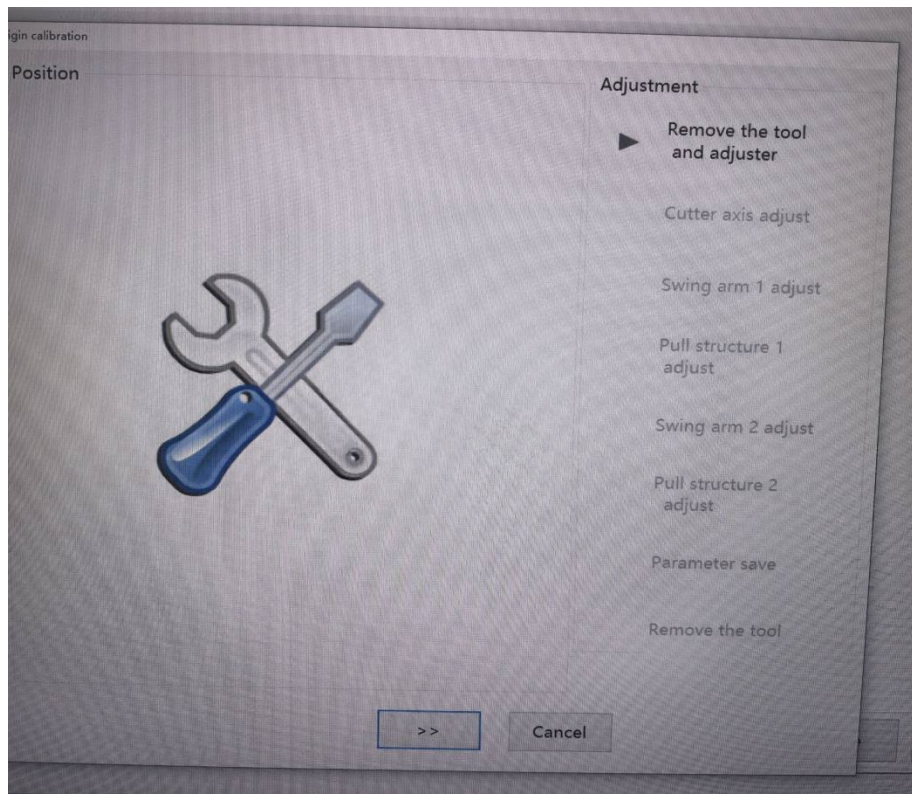
(Figure 17)

After the second step is completed, a configuration window pops up (as shown in Figure 18)



(graph 18)

- (4) Click to  enter the origin calibration interface (as shown in Figure 19)

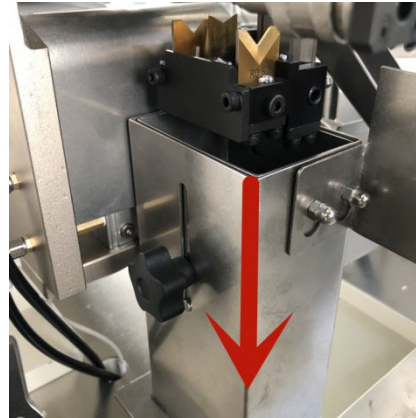


(Figure 19)

- (5) Check the lower ☒ 手动调校 left corner.
- (6) Rotate the nut counterclockwise to release the tool guard. (See Figure 20 and Figure 21)



(Fig. 20) (Fig. 21)

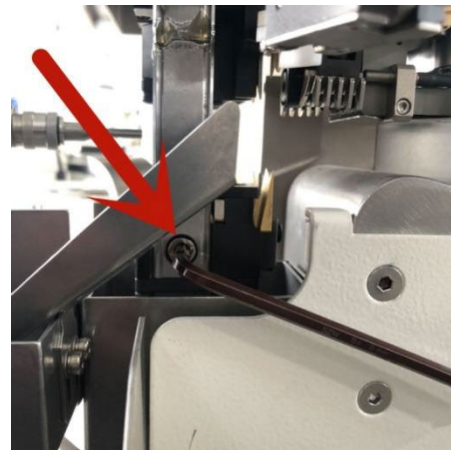


(Fig. 20) (Fig. 21)

- (7) Use a suitable hex key to remove the knife holder (see Figure 22 and Figure 23).



(Figures 22 and 23)



(Figures 22 and 23)

23)

Use the appropriate hex key to remove the upper knife holder and remove the upper knife holder air pipe. (See Figure 24 and Figure 25)



(Figures 24 and 25)



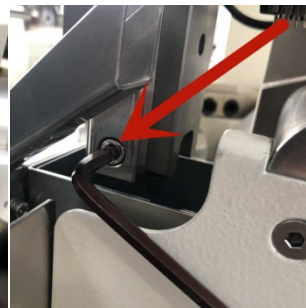
(Figures 24

and 25)

Take out the middle tool (as shown in Figure 26), aim at the two guide rails, plane up, cylindrical pin to the right, and tighten the left hex screw. (As shown in Figure 27 and Figure 28)



(Figures 26,27 and 28)



(Figures 26,27 and 28)

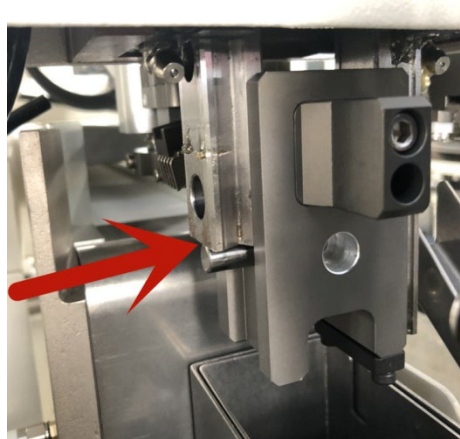
(Figures 26,27 and 28)

- (8) Push the centering device up and down to check whether the guide rail can slide smoothly into the guide slot (as shown in Figure 29).



(Figure 29)

- (9) Click the >> button to complete the removal of the tool installation centering device and 移至参考传感器 jump to the step of positioning the cutting tool shaft. Click again to slowly move the cutting tool part up and down to the sensor position and stop. Press the bottom end of the guide rail against the top end of the cylindrical pin (as shown in Figure 30).

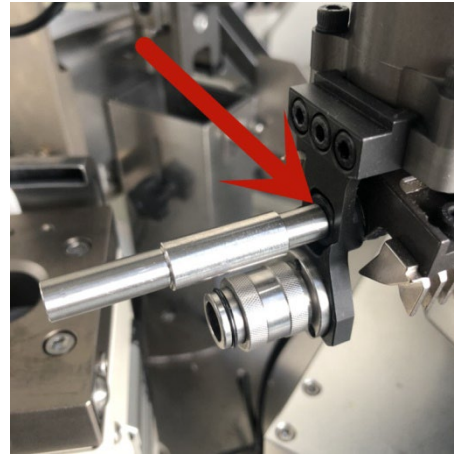


( graph 30)

- (10) Click the >> button to save the position of the cutting tool shaft and jump to 移至参考传感器 the centering of the rocker arm 1. Click the button to slow down the rocker arm in area 1 to the sensor position and stop.
- (11) Move the swing arm of Zone One to the appropriate area, remove the calibration rod from Zone One (as shown in Figure 31), and insert it into the round hole of the quick connector (as shown in Figure 32). Push the swing arm forward. If the height is not correct, use a wrench to loosen the nut first, then adjust the height of the swing arm. After making the adjustment, secure the nut tightly (as shown in Figure 33). Insert the front end of the calibration rod into the centering device's round hole and push it all the way down (as shown in Figure 34).



(Fig. 31) (Fig. 32)



(Fig. 31) (Fig. 32)



(Fig. 33) (Fig. 34)



(Fig. 33) (Fig.

34)

(12) After the adjustment  is completed, click the button. At this time, the swing arm 1 is saved for centering, and the swing  arm can not be moved left and right at the same time, and jump to the centering of the drawing mechanism 1. Click, at this time, the drawing mechanism in area 1 moves slowly to the sensor position and stops.

(13) Push the arm forward and insert the top of the calibration bar into the round hole of the centering device until it reaches the bottom. (See Figure 34)

(14) Click the  button. At this time, the drawing mechanism 1 is aligned  and saved, and then it jumps to the swinging arm 2 for alignment. Click the second swinging arm, move it slowly to the sensor position and stop.

(15) Move the swing arm of Zone 2 to the appropriate area, remove the calibration rod from Zone 2 (as shown in Figure 35), and insert it into the round hole below the clamping jaw (as shown in Figure 36). Push the swing arm forward. If the height is not correct, use a wrench to loosen the nut first, then adjust the height of the swing arm. After making the adjustment, secure the nut tightly (as shown in Figure 37). Insert the front end of the calibration rod into the centering device's round hole and push it all the way down (as shown in Figure 38).

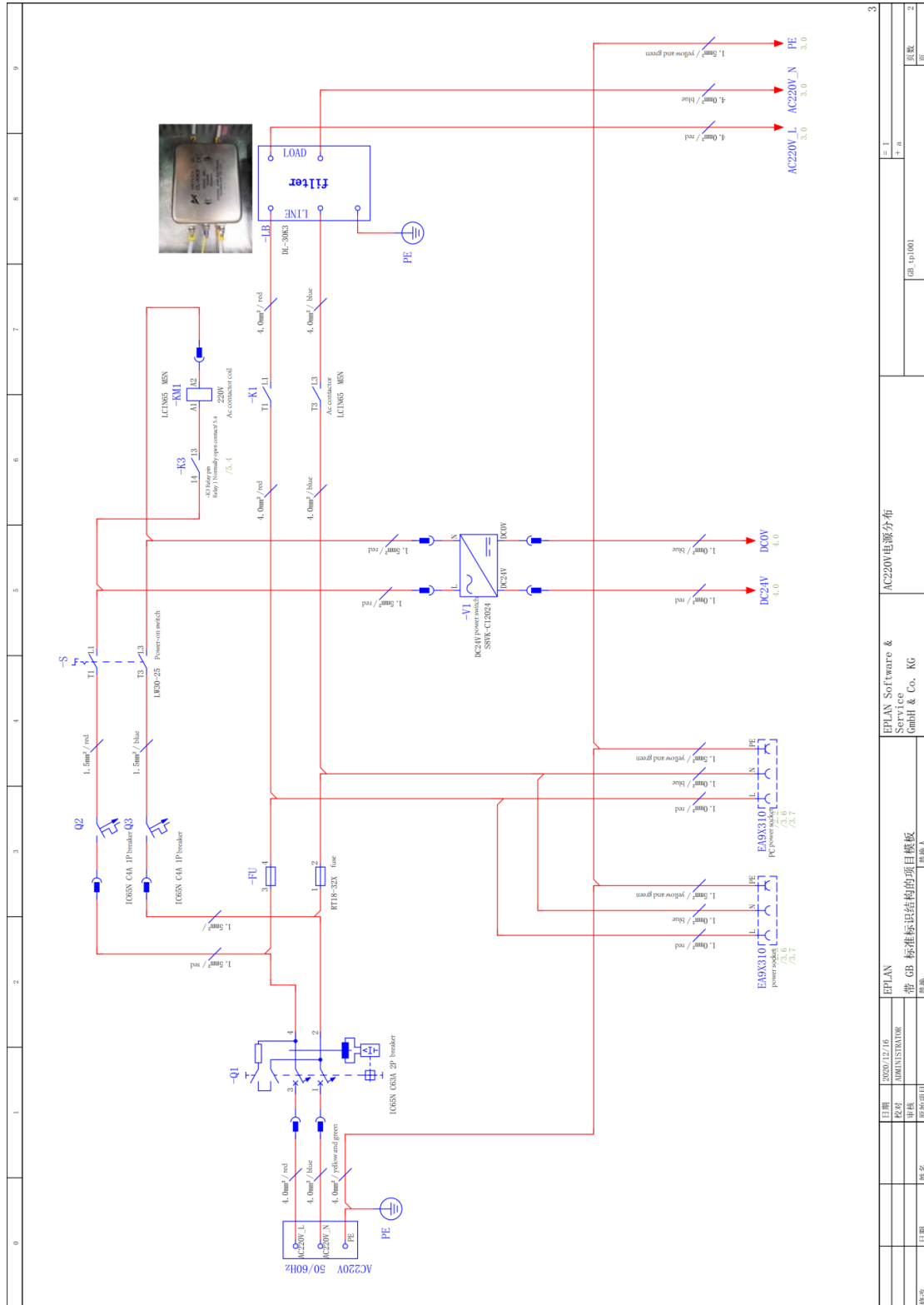


(Fig. 35) (Fig. 36)

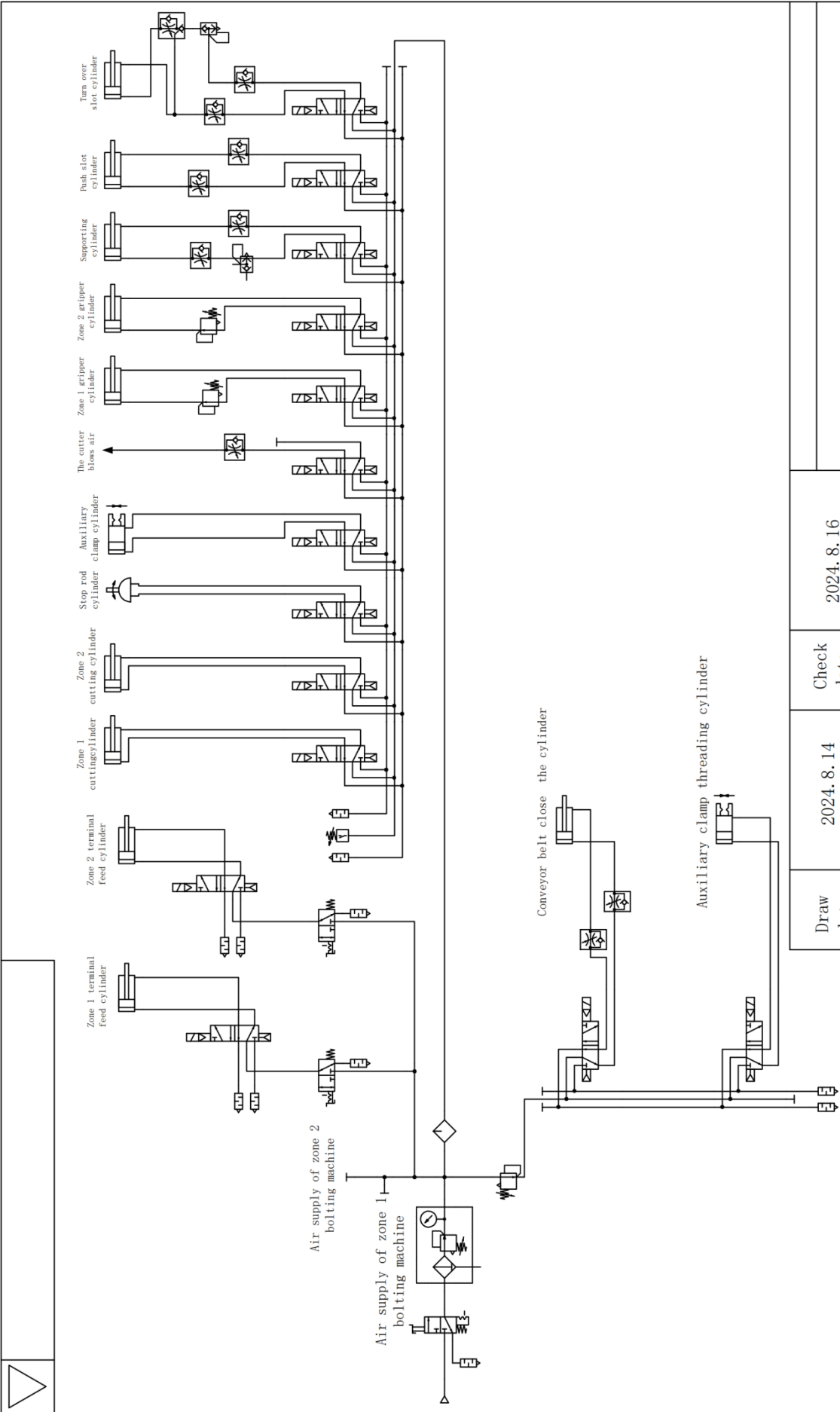


(Fig. 35) (Fig.

**diagram**







|             |             |               |             |                                                                                                                       |
|-------------|-------------|---------------|-------------|-----------------------------------------------------------------------------------------------------------------------|
| Draw date   | 2024. 8. 14 | Check date    | 2024. 8. 16 | <div>Gas diagram</div> <div></div> |
| Design date | 2016. 5. 12 | Approval date | 2024. 8. 16 |                                                                                                                       |

## container loading list

| name                        | quantity                                       | remarks                           |
|-----------------------------|------------------------------------------------|-----------------------------------|
| Main body of the host       | 1                                              | short for Taizhou                 |
| power line                  | 1                                              | Three meters                      |
| Send the belt               | 2                                              | twig                              |
| Grab sensor                 | 2                                              | Zone 1, Zone 2                    |
| catheter                    | According to<br>customer's<br>product matching |                                   |
| fuse                        | 2                                              | 32A                               |
| air tube                    | 1                                              | Φ 10 3 meters                     |
| inner hexagon spanner       | 1                                              | 1.5-10mm                          |
| A set of quick wrenches     | 1                                              | Two inches                        |
| One 17mm sleeve             | 1                                              |                                   |
| 8-10mm open wrench          | 1                                              |                                   |
| 12-14mm open wrench         | 1                                              |                                   |
| 22-24mm open wrench         | 1                                              |                                   |
| grease gun                  | 1                                              | handful                           |
| Cutting tools               | 1                                              | 8 pieces<br>(including<br>screws) |
| Equipment origin calibrator | 1                                              | cover                             |

|                       |     |            |
|-----------------------|-----|------------|
| Black zip ties        | 1   | grasp      |
| Terminal waste bucket | 1/2 | individual |
| Special mouse pad     | 1   | fix        |