



CONTINUOUS SEALING MACHINE

MANUAL NO. 11799



1. PRODUCT INTRODUCTION

1.1 Products' application

This sealer is suitable for sealing all kinds of plastic films, which is widely used in fields of food, medicine, chemicals, commodities and agriculture, etc. It is ideal sealing equipment for packing batch products in factories and shops.

1.2 Products' feature

This sealer is ideal for sealing small packages, which adopts constant temperature control system and stepless speed adjusting transmission mechanism.

It has the advantages of high efficiency for continuous sealing, reliable sealing quality, superior structure and simple operation, etc.

The sealing direction of standard machine is from right to left. It can also be designed to seal from left to right according to customers' requirement.

1.3 Operation principles

After power supply is connected, electrothermal elements start to produce heat, which leads to rapid temperature rise of both upper and bottom heating blocks. Adjust temperature controller and speed-adjusting knob to get the required temperature and speed respectively. The sealing area of plastic packing bag is conveyed

to the position between two sealing belts by conveyor belt first, then clamped by two sealing belts and delivered to the heating area. The plastic film is heated and softened. Under the pressure from pinch roller, the film binds. After this, the sealing part will be conveyed to the cooling area for cooling and forming, and then pressed by embossing roller for making stripe or grid pattern, and print the needed colored labels.

The running of transmission part of the sealer and printer is started by motor, which drives sealing belts, guiding belts and conveyor belt through gears to run synchronously, and intermittently drive the printing mechanism to work synchronously.

1.4 Parameters of products

Power supply: 110V

Power: 700 W

Sealing speed: 0 ~ 24m/min (adjustable)

Sealing width: 10mm

Temp. range: 0 ~ 300°C (adjustable)

Single Layer Maximum Film Thickness: ≤ 0.1 mm

Conveyor Table Maximum Load: ≤ 3 kgs

No. of printing words: 13

2. SAFETY, PREPARATION AND EXAMINATION

2.1 Preparation for use

This instruction is a detailed description of the Movement, Storage, Installation, Startup, Operation condition, Maintenance, troubles & solutions and Repairing. The installation of machine is suggested to be operated by trained person.

Pls follow the maintenance instructions:

Before operating the machine, pls be sure to read the operation manual carefully and fully understand it.

If there is any question, pls contact the supplier.

2.2 Precautions on safety

Please confirm the machine voltage, frequency to prevent the accident.

This machine is in power system of single-phase three-wire, and the yellow and green wire is protective earth wire which should be grounding and could not be removed.

The power cord should be protected from pressing, pulling, and should be winded when it is not used.

Do not touch the electrical devices inside the machine after the power is turned on.

Do not touch any driving parts to avoid injury when the machine is in operation.

Do not open the machine hull, protection cover etc. when machine is on so as to avoid pinching, scalding or electric shock.

Do not touch the heating blocks to prevent from burns.

When the machine is repaired, please proceed when the heating blocks are fully cool to avoid burns.

Do not use the machine in corrosive and dusty environments.

Keep the inside and outside of the machine clean and remove the surface adhesive materials from the Teflon belt in time.

When the machine is not in use, the power supply and air supply should be switched off.

Keep this manual properly for easy reference in the future.

This machine is produced as per the latest technology and security standard. There may be danger or damage under improper operation. Please notice the keywords “DANGEROUS”, “WARNING”, “TAKE CARE”.

2.3 Operational environment

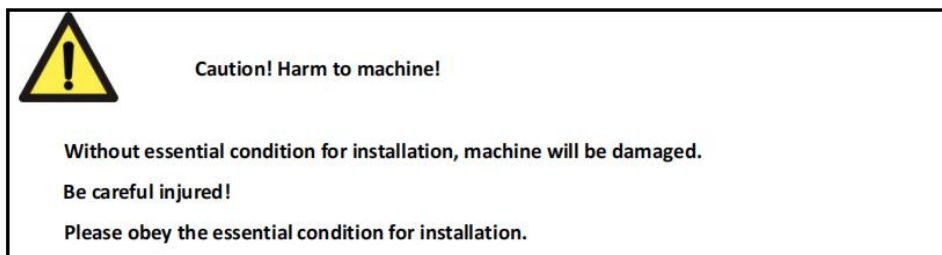
This product is designed to run under room temperature. If the environment is in bad condition (such as corrosive atmosphere, high temperature or temperature in frequent changes), please contact the manufacturer .

3. INSTALLATION

Before installation and operation, please read this manual carefully.

You can get the information of the installation, starting, maintenance and operation of the machine. Supplier is not responsible for the problem caused by the operation against this manual.

3.1 Necessary conditions for installation



3.2 Installation environment

No inflammable and explosive gas is allowed.

Environment temperature: 5-30°C. If need operation under other temperature, please confirm with supplier first.

Environment pressure, standard atmospheric pressure

Assure power environment satisfy requirements (refer to nameplate).

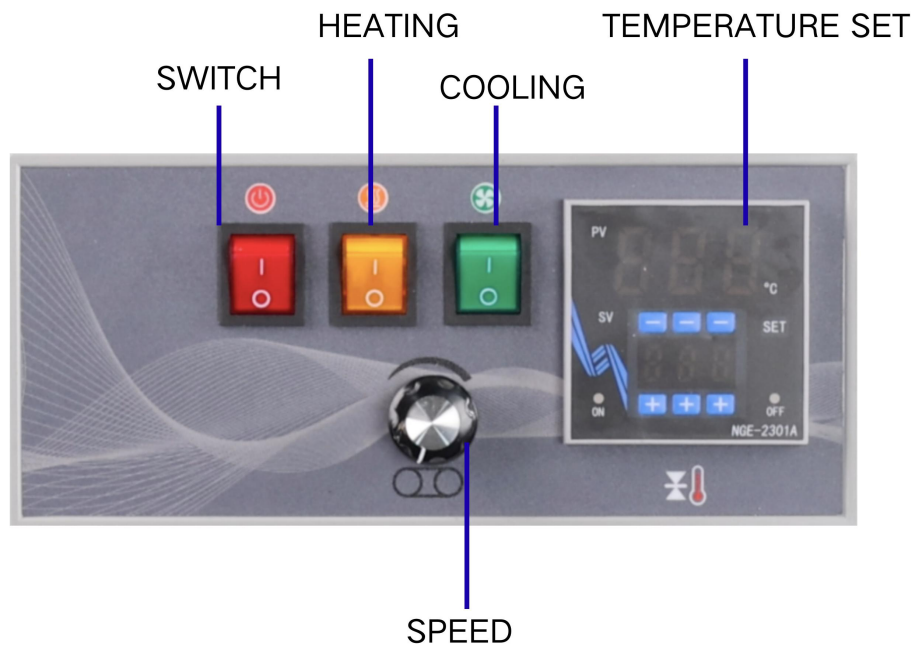
Leave enough space to assure good ventilation for heat dissipation. At least 10cm interspace.

Machine cannot be exposed to heat source and steam device directly. (such as steamer, dish-washing machine or stove)

Assure enough space to replace the easy worn spare parts.

4.STARTUP AND COMMISSIONING

4.1 Introduction to the controlling panel



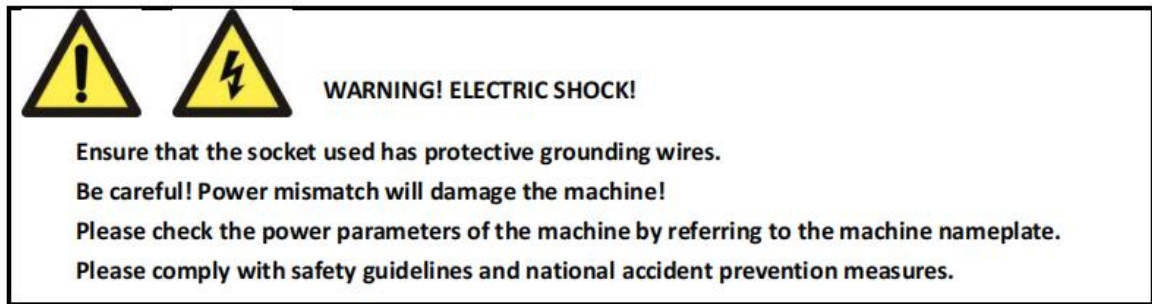
4.2 Power on



Via rotating the power switch to start the machine.

After the connection with the power supply, the indicator light will be on. And the touch display will show the home page, which means the machine is now in the state of standby, and the machine is ready to be operated.

4.2.1 Starting power supply



★ Power/Ground:

- Check whether the power supply voltage is consistent with the voltage in the machine's nameplate.
- Ensure the machine is properly connected to a grounded receptacle, so as to avoid the fire or electric shock (grounding line is the yellow green double color line).
- The cable must be free to move to avoid extrusion.
- Once the cable is damaged, please replace immediately.
- When there is machine malfunction or when the machine needs maintenance, please cut off power supply.

4.2.2 Startup procedure

- Connect the power , the indicator lights up, adjust the heating speed knob, then the transmission parts run synchronously.
- Turn on the heater switch, then the green light of temperature controller lights up. According to the material and thickness of the packing bag, adjust the temperature controller to the

desired temperature. When the heating block begins to warm up, the machine shall be turned on at the same time.

- That whether it is necessary to turn on the fan for cooling depends on the material and thickness of packing bag.
- Flatten and align sealing opening, then feed the bag by aligning the bag opening with the feed opening. When the bag opening is gripped by the sealing belts, which makes the bag moving forward automatically, at that moment, please do not push it in or pull it out by force, otherwise there will be irregular sealing or breakdown.
- If it is found that there is dirt attached to the sealing belt or the heating block, stop the sealer and clear it. Do not clear the dirt with hands when the temperature is high.

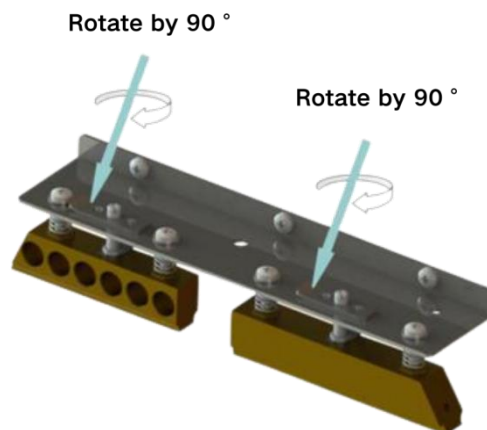
4.2.3 Stop operation

In order to prolong the service life of the sealer, before turning off the machine, please return the temperature-regulating knob to position 0 firstly, and turn on the fan. At the same time, the indicating temperature begins to fall and the sealing belt should still be in state of running. After several minutes later, when the temperature drops below 100℃, it is allowed to turn off the fan and main power switch.

4.3 Commissioning

4.3.1 Replacement and adjustment of the sealing belt

Remove the safety cover, after the heating block cooling, rotate retaining washer by 90 ° on both upper heating block and upper cooling block to lift both two blocks, then loosen the springs on both embossing roller and pinch roller, meanwhile, remove the guiding belt, so as to make it ready for removing sealing belts (as below figure).



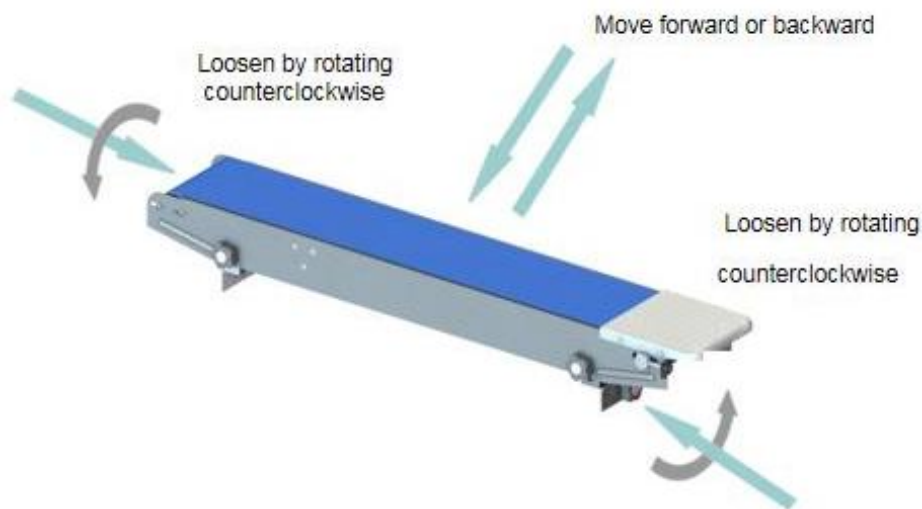
- Move the driven wheel seat (adjusting block) towards heating block, and remove the sealing belt.
- Replace it with a new sealing belt and install the guiding belt back.
- Adjust the driven wheel, heating blocks, cooling blocks, and pinch roller etc. to the original position.
- Connect the power supply to test the machine.
- Install the protection cover. When the temperature reaches the

setting temperature, the machine is ready for work.

4.3.2 Forward-and-backward adjustment of conveyor table

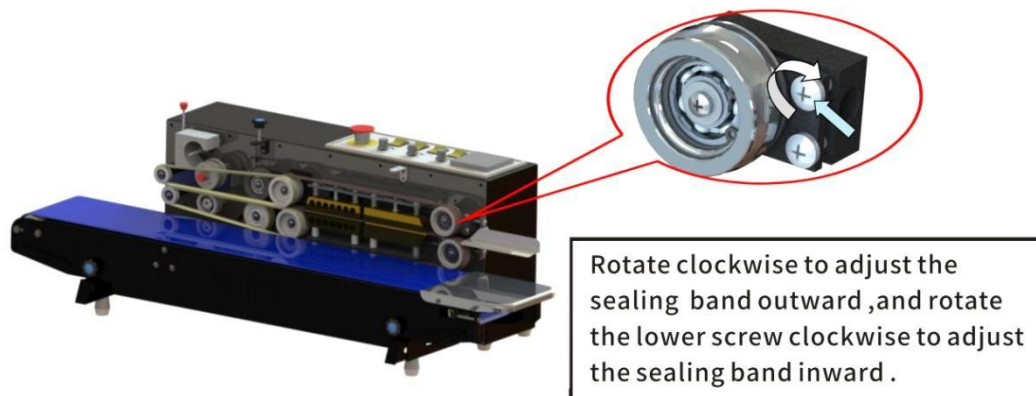
Loosen the adjusting knobs on both sides first, and then move the conveyor table forward or backward in the long slot along the feet.

Tighten the knobs on both sides after finishing the adjustment.



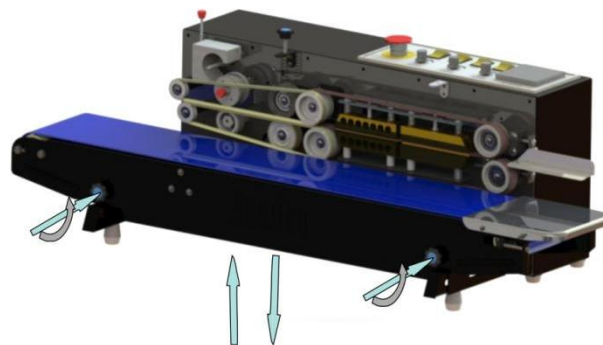
4.3.3 Adjustment of sealing belt deviation

If the sealing belt deviates, the sealing belt can be adjusted by adjusting the screws in the driven wheel seat (adjusting block) (as below figure).



4.3.4 Adjustment of conveyor table height

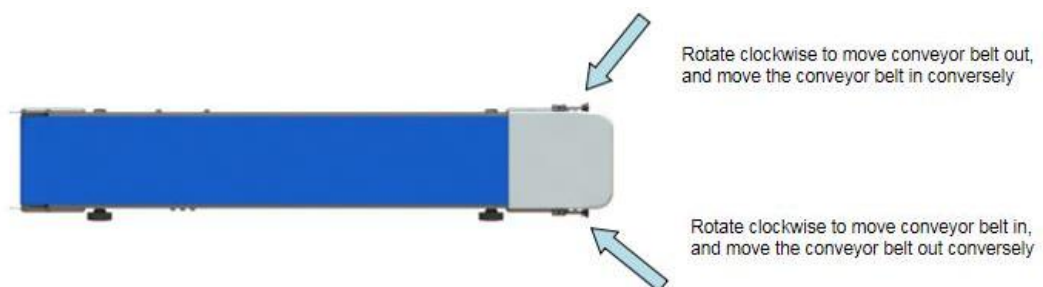
According to different materials, if it is needed to adjust the height of the conveying table, adjust the conveying table height by the adjusting knob in front of the conveyor table (as below figure), and tighten it after adjustment.



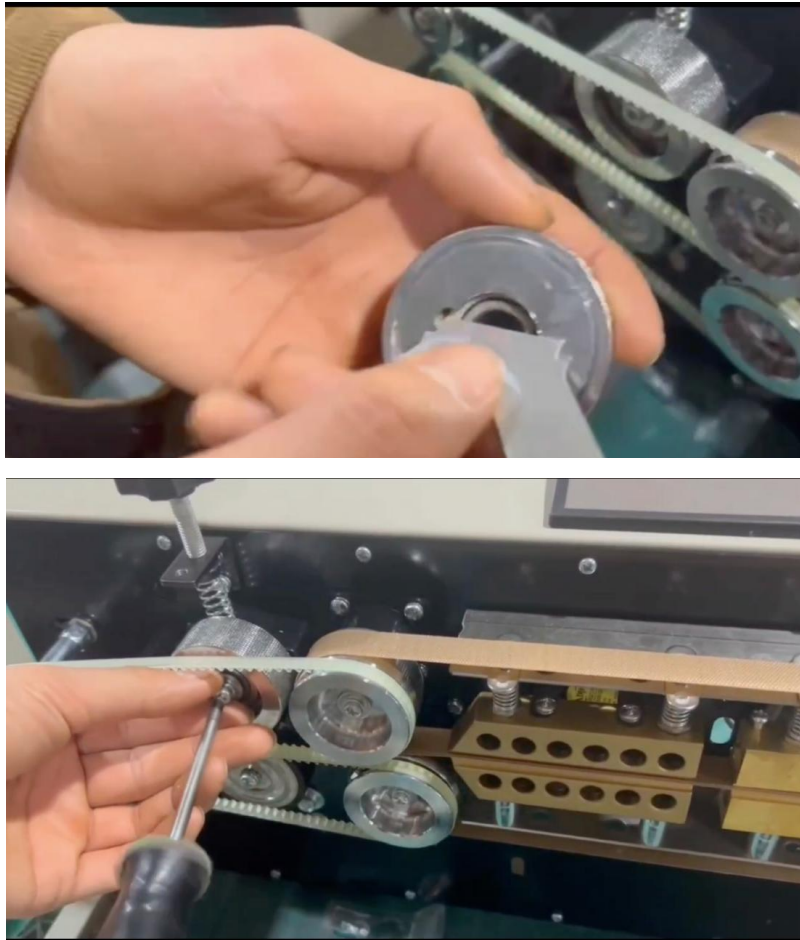
Rotate counterclockwise to loosen ,which can make the conveyor table lift up and down as needed .

4.3.5 Adjustment of conveyor belt running deviation

If the conveyor belt run deviation, the conveyor belt can be adjusted by adjusting knob on the right side of conveyor table (as below photo). Keep the conveyor belt under tension state when adjusting, and it is not allowed to adjust when the conveyor belt under relaxed state.



4.3.7 How to Install the Alphabet Wheel



We have prepared a letter wheel for you in the accessory bag that can print numbers or letters on the bag. You can use the small steel plate we prepared for you to unscrew the letter wheel and put the letters you need into the letter wheel. Then open the casing of the machine, remove the blank letter wheel with a screwdriver, and install the letter wheel you set. (For specific operations, please refer to the video on our product details page or contact our customer service by email to obtain the operation video of machine and letter wheel installation)

4.3.8 Control panel removal method


- First, remove the back cover of the chassis;
- Second step, remove the emergency stop switch (by turning out the red knob on the emergency stop switch counterclockwise, and then turning out the silver clasp under the red knob counterclockwise), and remove the pins on the front and rear sides of the temperature controller;
- Third step, push the control panel into place in the direction of arrow A in the figure below (at this time the housing and control panel are loose), then take out the control panel as shown by arrow B.

5. STANDARD OPERATION & PARAMETER SETTING

5.1 Preparation, adjustment and inspection before operation

- This machine is equipped with a grounded three-hole socket. The power supply used should be well grounded to ensure safety in production.
- When in first time use or when there is too long time interval after use, the electric heating element will be affected with damp, it should be operated in normal operation after preheating in low temperature for a few minutes.

- According to the bag shape and size, adjust the conveying table height and forward-and-backward position.
- According to the shape and size of the sealing line to the mouth, adjust the position (inlet).
- According to thickness of the sealing material, adjust upper and lower heating blocks, and the clearance between upper and lower cooling blocks, adjust the pressing force of retaining washer to control the clearance between the two sealing tapes, adjust clockwise to lift (increase clearance) and counterclockwise to fall (narrow clearance). The clearance between two sealing belts is equal to about the thickness of one layer of packing bags, so that the sealing fastness and embossing sharpness of the bag can be ensured and the clearance between two ends of the seal are not too long.





TAKE CARE! INJURED!

Please refer to this manual to operate this machine. It is not allowed to discharge the necessary protection cover or hull.




TAKE CARE! CLAMPED!

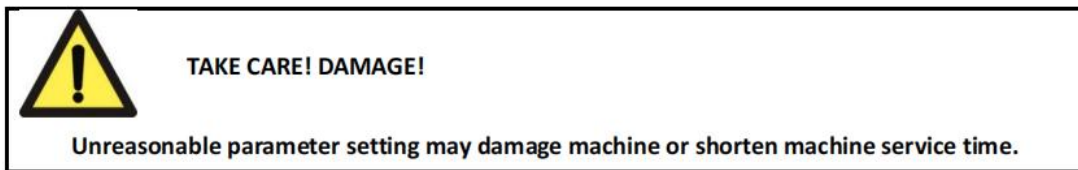
When the machine is running, it is forbidden to put hands into the driving wheel to avoid clamping hands!

TAKE CARE! SCALD!

When sealing, the temperature outside the surface of heating block can reach over 200°C. Even after cooling, it is still with high temperature.

5.2 Parameter setting



- Unreasonable parameter setting may damage the machine or shorten the service time.
- Unreasonable parameter setting may cause all procedures or sealing not to be completed correctly.
- If any question about machine's operation or function of the machine, please contact the manufacturer or distributor.

★ Speed Parameter Setting

- There is a speed adjusting knob in the control panel to adjust the sealing speed, clockwise rotation is to increase the sealing speed, counterclockwise rotation is to reduce the sealing speed.

★ Optimal Parameter

- The distance between bag sealing center to the edge of the bag is 10 ~ 20 mm.
- Bag sealing quality is determined by the three elements of heat sealing temperature, sealing speed and pressure.
- Temperature setting should be adjusted slowly from low to high

according to the thickness of the bag.

- Speed setting should be adjusted slowly from slow to fast according to the sealing effect.

The sealing pressure is adjusted to appropriate pressure before the machine leaving factory, and it is suitable for most product bags. If after adjusting temperature and speed, the bags cannot get the ideal sealing effect, please adjust the belt-pressing wheel to make pressure change from low to high slowly so that to get the expected sealing effect.

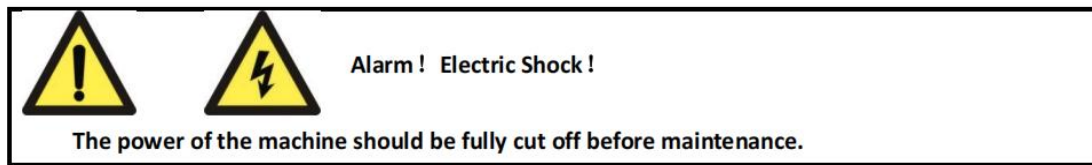
★ Common material heat-sealing temperature reference table

Material Name	Thickness (u m)	Recommended temperature setting (°C)	Heat-sealing speed (m/min)
LDPE	30~160	105~150	6~10
MDPE	40~120	115~120	7.2~10.2
HDPE	40~90	125~150	7.2~10.2
PP	40~60	135~160	7.2~10.2

★ **OPERATION SUGGESTIONS:**

- 1.The faster the speed, the higher the temperature may need to be adjusted. The slower the speed, the temperature may need to be adjusted lower. Try to adjust one setting at a time, either speed or temperature. It is best not to adjust speed and temperature simultaneously.
- 2.If the bag is found to be broken or melted by welding, it means that the temperature needs to be lowered or the speed needs to be increased. If the bag is found not to be sealed or can be torn open after sealing, it means that the temperature needs to be increased or the speed needs to be slowed down.
- 3.If the items to be sealed are slightly heavy, in order to prevent the bag from shifting, it is best to hold it slightly with your hands when sealing.

6. MAINTENANCE



Daily maintenance to the machine is necessary to lengthen the service life of the machine and to achieve best packing effect. If the machine is frequently used (more than four hours per day), it is suggested to do professional maintenance every three month. If the machine is used less than four hours per day, it is advisable to do comprehensive maintenance very six month (according to place, environment and product). However, some users could do simple following maintenance to the machine according to their Practical needs.

6.1 Attention for maintenance

- The power of the machine should be fully cut off, the power cord should be pulled out from the socket in the wall.
- If the machine runs incorrectly or there is some abnormal noise during operation, please immediately turn off the power and contact manufacturer.
- Please do not wash the machine with high pressure washer which will do much damage to the electronic components and

other spare parts in the machine.

- Please do not let the water flow into the control panel, or it will do damage to the electric circuit.
- If the operator's maintenance to the machine is not according to this manual, the manufacturer will not take responsibility for any failure or damage of the machine.

6.2 Maintenance schedule

Schedule	Contents of Maintenance
Daily	1.Use the brush to remove the substance attached to the appearance of the sealing belt and guiding belt. 2.Use wet cloth to clean the appearance of the conveyor belt. 3. There is no noise or abnormal noise during motor operation.
Monthly	1.Check whether the sealing belt is worn or not 2.Check whether the guiding belt is worn or not 3.Clean the carbon brush of the motor
Half a year	1.Check the worn situation of the carbon brush of the motor which is suggested to change once a year 2.Adding lubricating grease to the gears which are exposed without cover.
Year	1.General inspection shall be conducted according to the above items. 2.Check whether the rubber wheel is aging, and replace the rubber wheel if the aging is serious. 3.Check the temperature controller temperature rise time, temperature rise to the set value more than 10 minutes to consider replacement. 4.Check whether the switch, emergency stop, potentiometer, fan and other electrical components operate normally. 5.Check the gear, shaft, universal joint and coupling of the transmission part, add grease, and replace the parts with serious strain when necessary. 6.Clean the worm gear box and replace the lubricating oil (Great Wall brand 000# extreme pressure lithium grease lubricating oil).

7 TROUBLESHOOTING

7.1 Troubleshooting

Problem	Reason	Solution
The machine does not work	1. The power is not connected.	1. Check the electric outlet
	2. The fuse is broken or high resolution circuit breaker trips.	2. Replace the fuse and high resolution circuit breaker
	3. The emergency stop switch is pressed but there is no reset.	3. Reset the emergency stop switch.
Conveyor belt is off-tracking	1. The active axle is not parallel to the driven axle.	1. Adjust two adjusting screws of Driven Wheel Seat.
Sealing belt is easily broken	1. Too much tension on sealing belt.	1. Adjust the vertical adjusting screw on driven wheel seat, so as to make sealing belt neither too tight nor too loose
	2. Sealing belt is off tracking.	2. (see the point above).
	3. Crease on sealing belt.	3. No crease on sealing belt.
	4. Adhesive film or other dirt attached to sealing belt surface.	4. Clean the surface of sealing belt in time
	5. Sealing belt is easy to be scorched.	5. Clearance between two heating blocks is too small or temperature is too high.

Problem	Reason	Solution
Embossing is not clear	1. Embossing wheel is worn out.	1. Replace embossing wheel.
	2. Pressing spring on embossing wheel is not tightened enough.	2. Adjust the tightening spring of embossing wheel.
There is resistance when the sealing belt is conveying	The clearance between heating blocks or cooling blocks is too small, the friction is too much.	Adjust the clearance between sealing belts properly, which should be about thickness of packing bag in one layer, so as to ensure strong sealing and clear printing, but not make the two ends of sealing part extend too long.
There is block or fold phenomenon when the packing bag is conveyed to middle pressing wheel or embossing wheel	Too much pressure caused by pressing wheel or embossing wheel.	1. Adjust the pressing wheel or embossing wheel to proper pressure, so as to make the clearance between two sealing belts be about thickness of packing bag in one layer. So that not only ensure the strong sealing and clear printing, but not make the two ends of sealing part extend too long. 2. Adjust limiting screw after adjusting clearance.
Conveyor belt is off-tracking	The active roller shaft is not parallel to the driven roller shaft	1. Adjust the two adjusting screws of the driven roller shaft (rear axle).
Conveyor belt and sealing belt don't move synchronously	The conveyor belt is not tight	1. Tighten the chain of driving roller shaft (front shaft) and middle shaft properly. 2. Tighten the conveyor belt properly

7.2 Motor maintenance

(1) Stop and check the machine when any abnormal occurs to motor, do not use the machine until problem is solved.

(2) Dedust and clean motor regularly. Ethyl alcohol, gasoline and liquid with benzene chemicals should be avoided, otherwise it will affect the paint of motor cover.

(3) Carbon brush is designed to be used 2500 hours continuously and commutator 2500 hours. The toner on the internal of motor and surface of commutator should be cleaned every 120 hours after use. The commutator should be wiped by ethyl alcohol. Replace carbon brush and commutator immediately when they were worn out.

(4) The motor should be used indoors under normal atmospheric temperature to avoid friction, exposure to rain, and chemical corrosion, etc.. Please contact the supplier or manufacturer first if the motor is to be used in bad condition (such as exposure to Corrosive atmosphere, temperature higher than 30°C or lower than 5°C).

CONTACT:

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