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# QOMOLANGMA® BRAND FULL-AUTO WIDE FORMAT COLD LAMINATOR, WITH HEAT ASSISTED



## FMJ-LITE-170E User Manual

Please read this manual carefully before operation

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## I. Technical Parameter

Specification	
Max. Working Width	1700mm(67in)
Variable Working Speed	0-20m/ min (0- 65.6ft)
Max. Nip Opening	35mm(1.38in)
Working Temp	40°C (104°F)(Default max temp.)
Alarm Temp	60°C (140°F)
Roller Diameter	120mm(4.72in)
Top Roller Material	Silicon rubber
Bottom Roller Material	Silicon rubber
Drive Motor	DC110V /120W
Heating Power	1300W
Rated Power	1520W
Power Requirement	AC110V/50-60Hz ;AC230V/50 60Hz
lit up system	Eletrie type
Forward/Reverne	Yes
Foot Pedal	Yes
Auto Rewind Liner Pickup	Yes
After Laminating Pickup	Yes
Emergency Stops	Yes
Machine Size	2120mm * 625mm * 1350mm (83.5in * 24.6in * 53in)
Net Weight	240kg(529lb)

## II. Installation

### 2.1 installation precautions

- 1 Before unpacking, carefully check if there is damage for the packing and machine during transportation.
- 2 After unpacking, check if the service parts are correct as the packing list.
- 3 The installing place should be provided enough space for operat ing and free of dust, no vapor, no corrosive gas, no combust ible or explosive substance around. Keep the machine away from wind blowing place, otherwise will affect the roller temperature which might bring the laminat ingquality.
- 4 After installation, adjust each caster to reach level ground. The casters only be used on



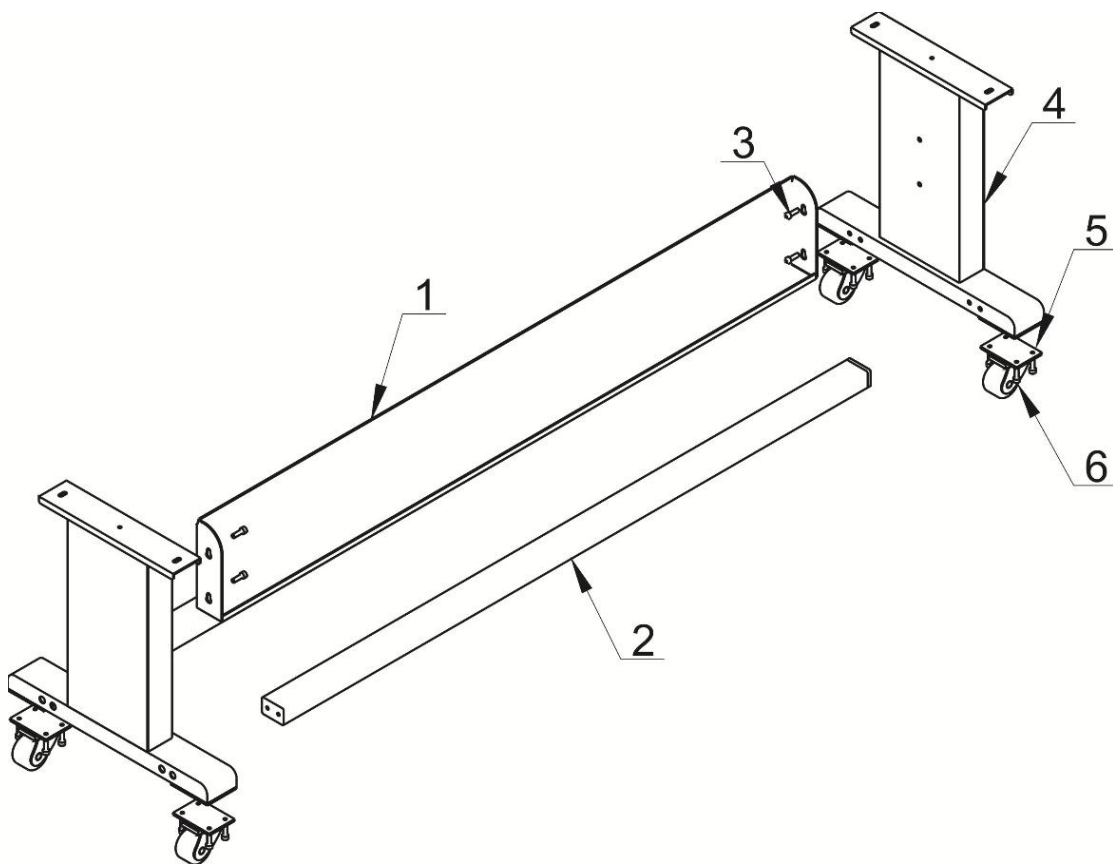


even ground for short distance movement.

Not ice: Please move carefully since it is heavy equipment.

## 2.2 The stand floor rack assembly

- 1) Take out the parts from the packing.
- 2) Assembling two legs and all shafts according to the picture.
- 3) Install the casters to the left and right leg. (two caster w/ brake and two w/o brake were installed in a diagonal).



1. Left and right leg    2. Two caster w/ brake, two w/o brake.    3. Top shaft.

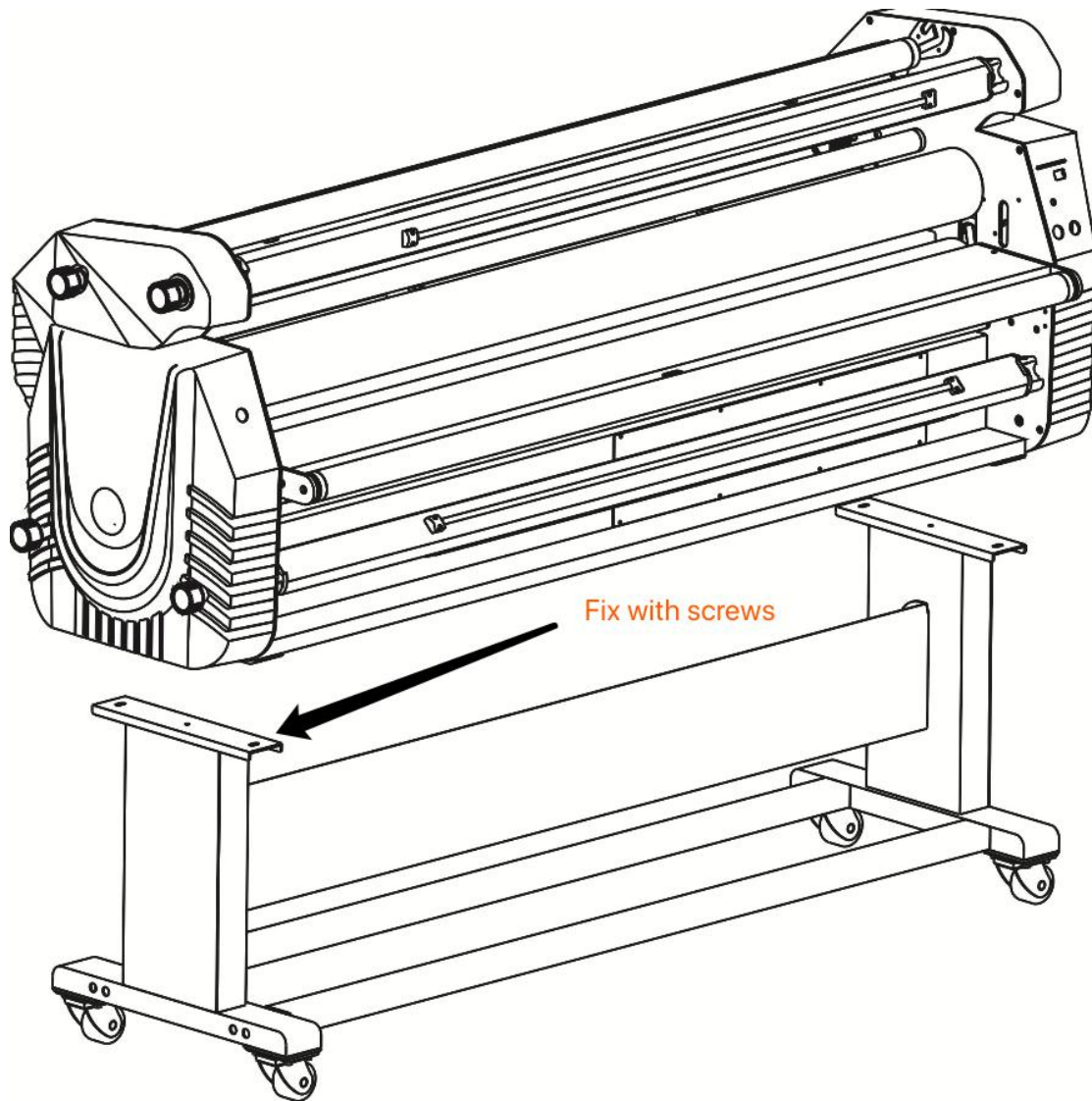
4. Left and right leg 5. Two casters w/ brake, two w/o brake. 6. M8x16 outer hex screws





### 2.3 Machine assembly

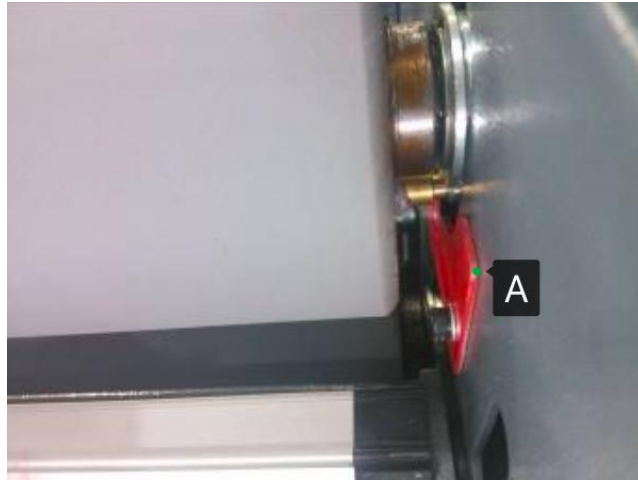
1) Take out the machine from crate; use 4 of 8x20 screw to connect the machine and shaft followed the picture, be attention the shaft direction.



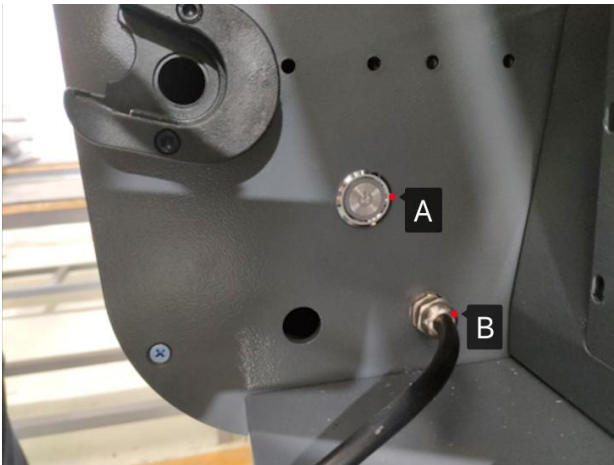
Notice: When moving, touch the bottom plate, don't move the hand wheel, friction wheel and other wheel position.

2) Take off the red supporting parts on both end of roller ( Refer to A).





3) Connect the foot pedal and wiring as following illustration.



A: Power switch  
B: Connection of foot pedal

4) Turn on the machine, roller is rotating. Make trial laminating if everything is well and check the lamination result.

### III. Safety Instructions

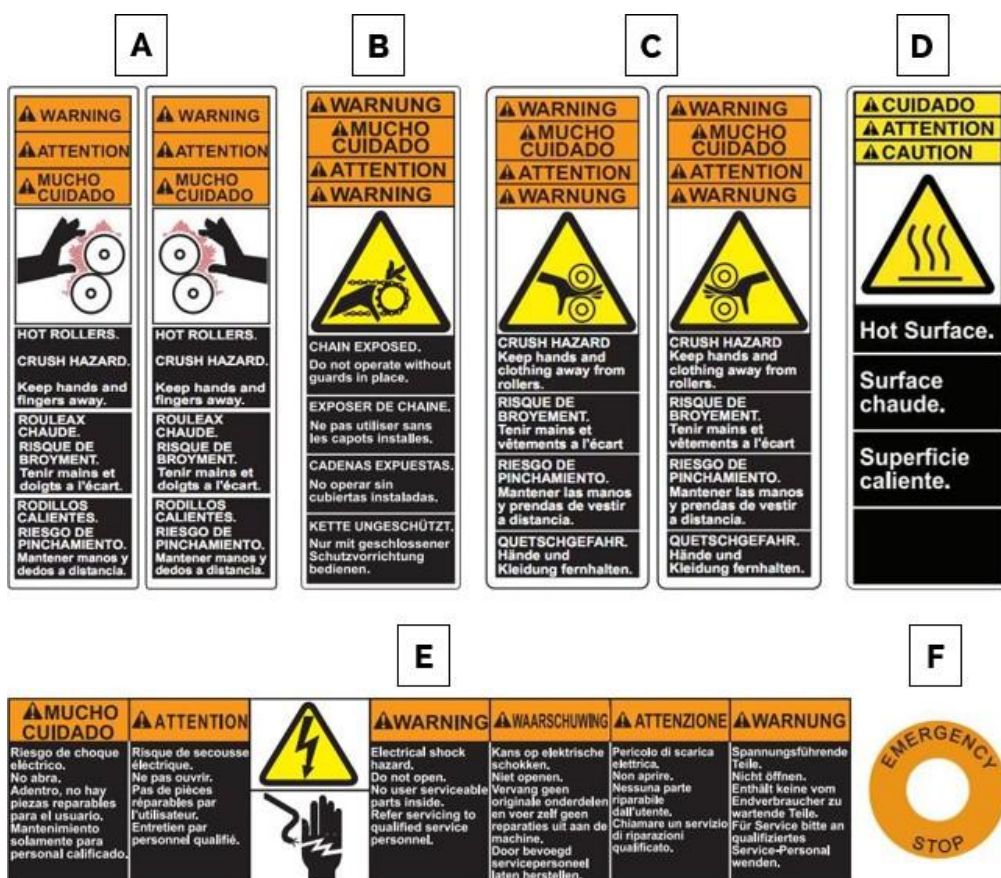
Read the safety instructions and familiarize yourself with the main structure, performance and operation measures before starting the machine. Training and examination is recommended when condition requires. In the operation and maintenance, please be aware of the warning symbols on the machine and proceed with caution to prevent hazards and ensure safety.

#### 3.1. Warning Symbols

Please be aware of the warning symbols below to prevent possible hazards!

---





- A Hand Anti-hot: The surface of roller could scald your hand or finger, keep away from heat ingroller.
- B Anti-chain Prick: Keep your hand away from chain and gear. Your long hair and clothing would be caught in the rollers.
- C Anti-hand trapped: this safety notice means that your fingers and hands could be trapped and crushed in the rollers, clothing and long hair could be caught in the rollers and pull you into them.
- D Warning: Be attention of high temperature.
- E Anti-electric shock: This safety notice means it is high voltage, should be turned off before adjustment.
- F EMERGENCY SWITCH: In case of emergency, press the red button to shut off the electric



### 3.2. Safety Parts

#### Emergency Stop Switch



The machine has one Emergency stop button. When activated the power supply will be cut off immediately. When turned clockwise, the button will disengage automatically and the machine will be restarted. The motor controller will be restarted after turn on the power button on the control panel. Press the Emergency button immediately when the needed. Caution: Emergency button is one of the essential safety parts. Please check its performance regularly.

**Note:** Please press the switch immediately when you encounter an emergency in the operation.

#### Photocell Safety Switch



The machine has an optical safety device at the input side of the nip at the main rollers on the right cabinet. When the signal is interrupted (e.g. by foreign object or hand), the device will be activated and the motor will stop so as to prevent hazards caused by interruption of foreign objects. When the motor controller is disabled by the optical safety device, it will not be activated even the interrupted objects are removed, unless the motor-on button on the control panel is pressed.

**Caution:** The optical device is inactivated when the pedal switch is pressed.

Optical safety device is one of the essential safety parts. Please check its optical sensitivity to ensure safe operation.



### 3.3. CAUTION

- 1) The mains supply must match the type indicated on the machine identification label (use three-pole plug device. The earth pole may not be altered randomly).
- 2) Cut the power supply before opening the cabinet in maintenance to prevent electricity shock or injury. Turn off the power supply after the operation.
- 3) Make sure the power supply cable and/or the extension cable is not blocking your way around the machine, placing under any stuff or driven across by any vehicles.
- 4) Install the machine in a dry and well ventilated environment. Make sure the ground is free of water or moisture. Keep the machine from any inflammable and explosive objects.
- 5) Do not place any tool or other stuff on the in-feed and out-feed table, such as: screwdriver, screw, nail, nut, ect. They may fall into the rolling rollers and cause damage to the machine.
- 6) Do not wash the machine with water. This can damage the electrical circuits, cause electrical shock or corrosion.
- 7) Cleaning by rotating the roller. To prevent from partial damage for the roller, don't clean at single point.
- 8) Check to see if the power supply cable and the foot pedal connection cable are broken on a regular basis to avoid electric shock.



## IV. Parts Identification

### 4.1 Front Views

1. Foot wheel
2. Print Rolls
3. Left cabinet
4. Emergency Stop Switch
5. In-feed table
6. Panel for covering the picture
7. Top roller
8. Liner paper roller
9. Control panel
10. Right cabinet



### 4.2 Back Views



- 1 Support bar
- 2 Film unwind
- 3 Trimmer Cutting Strut
- 4 Media take up roller



### 4.3 Annotation

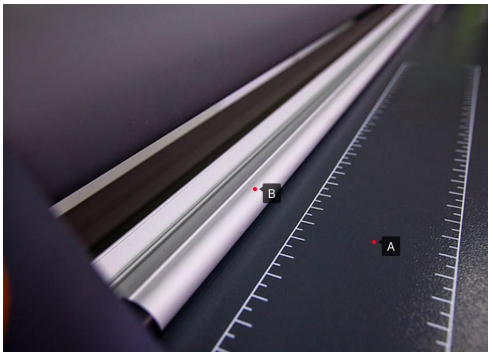
#### ■ Safety foot pedal switch



Foot pedal is another way to control the start and stop roller rotating. Step on the foot pedal, press the direction button to adjust the speed, then the roller runs, roller stops when loose.

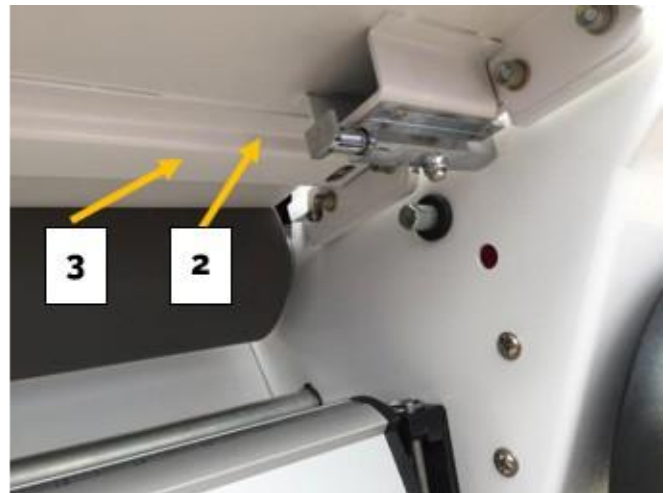
**NOTE:** The protect sensor can't be used with foot pedal together. Please pay more attention to protect your hand during foot pedal operation. Working table and Pressure board.

#### ■ Working table and Pressure board



Working table (A) and pressure board (B) are used to put tension on media and parallel with film edge. A and B are moveable. Take off the working table when install/uninstall the media or clean the roller. Take off pressure board when preparing the laminating, put it back when preparation is ready.

#### ■ Take down working table



1. Press the button to open the plug.
2. Hold the middle and lift.
3. Hold the middle and pull out.



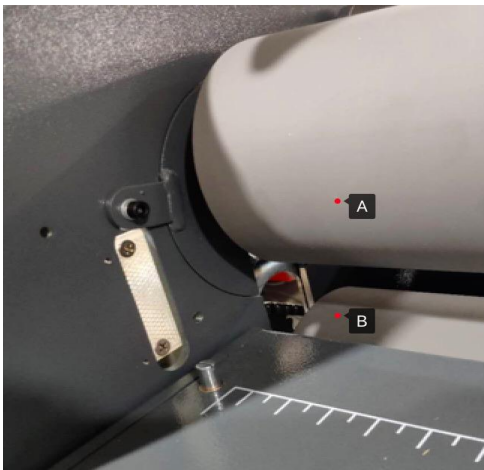
## Assemble the front turntable (Refer to 1.3 section)

### ■ Pressure board



Lift and take off the pressure board. Insert screw in the holes of pressure board to put on back.

### ■ Top and Bottom Roller



Top and bottom rollers are the key component of the laminator and they directly affects the quality of laminating and titled image. Both top and bottom is silicon roller for this machine. The advantage is good heating and acid and alkali resistance, prevent adhesion from cold laminating film. The bottom roller is controlled by motor, the top roller rotated by friction.

**Notice:** Don't put your hand or finger between top and bottom roller, in case, press E-stop.

### ■ The Idler bar



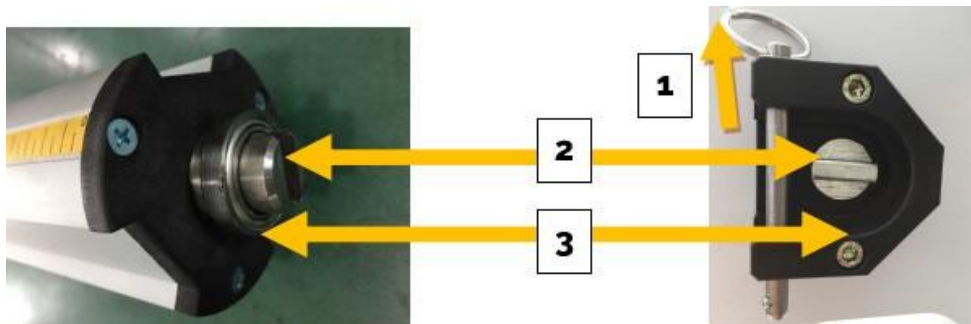
The idler bar is used to smooth the film when go through in 'S' direction, so the film is as flat as possible between the rollers.



## ■ Unwind/rewind shafts

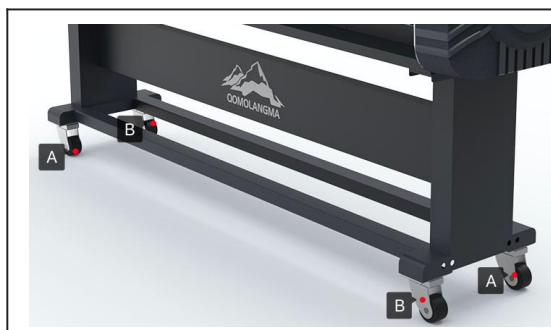


Four shafts for this machine, they are film liner revider (A), film unwind shaft (B), media revider (C), media unwind shaft (D), they are changeable to each other. It is motorized shaft for film liner revider and media revider, non-power for film unwind shaft and media unwind shaft. Take off the key from saddles then move out one side of shaft. For assembly, left side first, the driven end of each shaft is slotted to engage a key. Three rubber strips on the shaft to hold the paper tube.



The friction wheel is A, B, C, D. Clockwise rotating to increase the friction, anti-clockwise rotating to decrease the friction. Adjust the speed by friction wheel to get good laminating result.

## ■ Casters



Total four casters for this machine.

Two of casters (A) can be locked to prevent movement, two casters (B) without brakes.



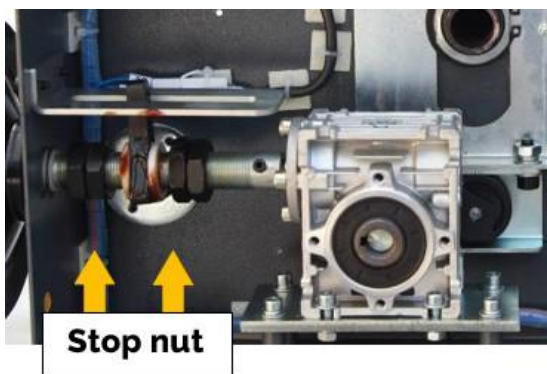


### ■ Temperature-measuring for Warm series only



The contact temperature detection only for Warm series. The contact material is brass. It is sensitive, small and durable.

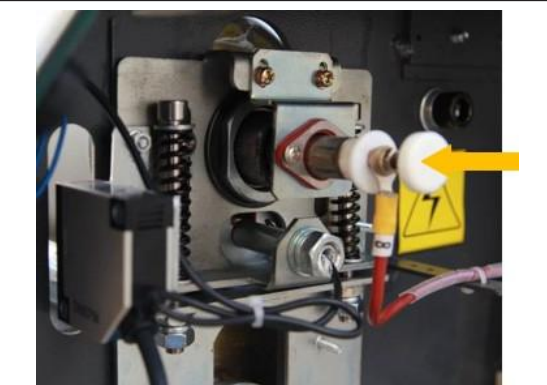
### ■ Pressure limit



This device limits the space of pressure plate. In order to protect speed controller, the hand crank is not able to use when reach the limit space which means max roller pressure.

Note: It is a default position, do not adjust

### ■ Heater for Warm series only



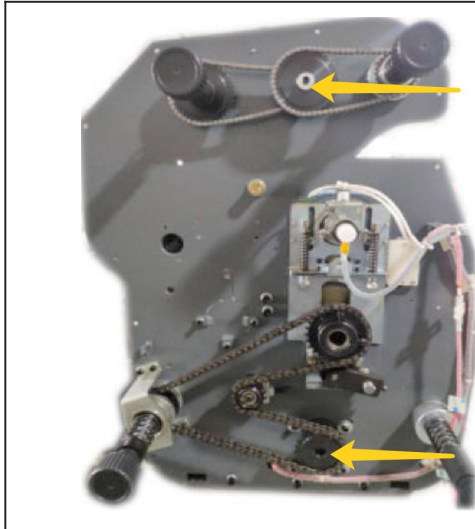
One 1300W stainless heater inside the roller, don't touch the connection end in case of electric shock.

NOTICE: Check the nuts periodically, if it is loose, fasten it in time to avoid the components broken. Power off when changing the heater.





## ■ Drive system

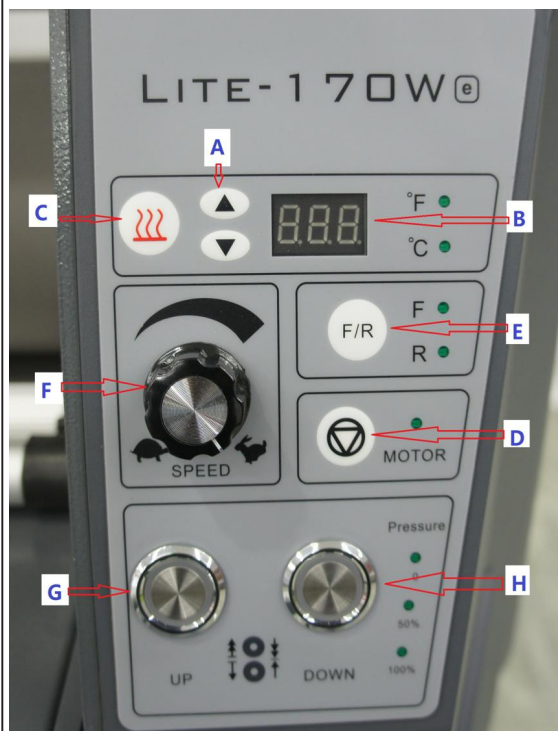


Film unwind drive liner take up through the sprocket wheel. The running speed is different because the number of teeth of the two sprockets is different, you can adjust the two-brake tension knob to change the speed ratio.

Motor drive roller and media take up through the sprocket wheel.

## ■ Control Panel

### 1) E series -Electric lift up type



**A-Up and Down Tab:** Used to adjust the setting temperature.

**B-Display Screen:** Indicate the current temperature and setting temperature.

**C-Start or stop the heating function.**

**D-Control motor start or stop**

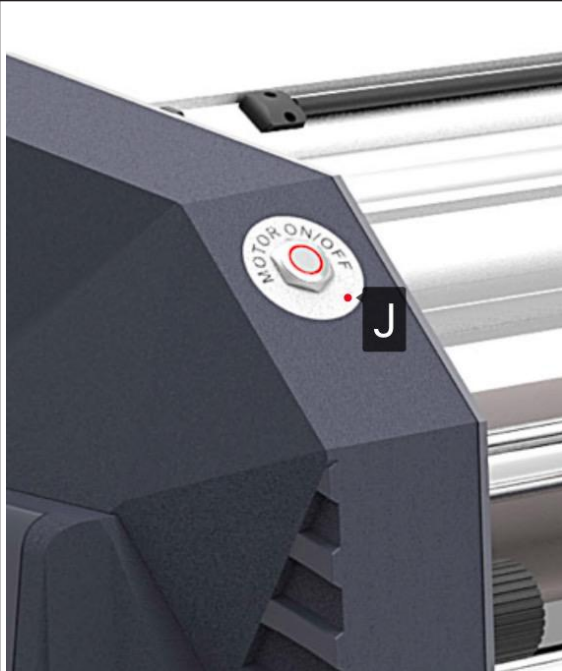
**E- Control the rotation direct ion of the motor.**

**F-Speed Control Button, Control the speed of the roller.**

**G- Used to control the rise of roller.**

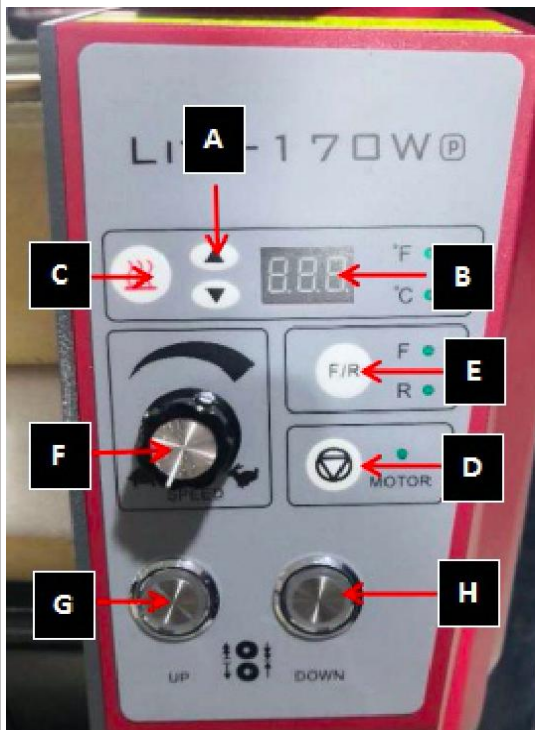
**H- Used to control the drop of roller.**





**J- Control motor start or stop**

2) P series -Pneumatic lift up type



**A-Up and Down Tab:** Used to adjust the setting temperature.

**B-Display Screen:** Indicate the current temperature and setting temperature.

**C-Start or stop the heating function.**

**D-Control motor start or stop**

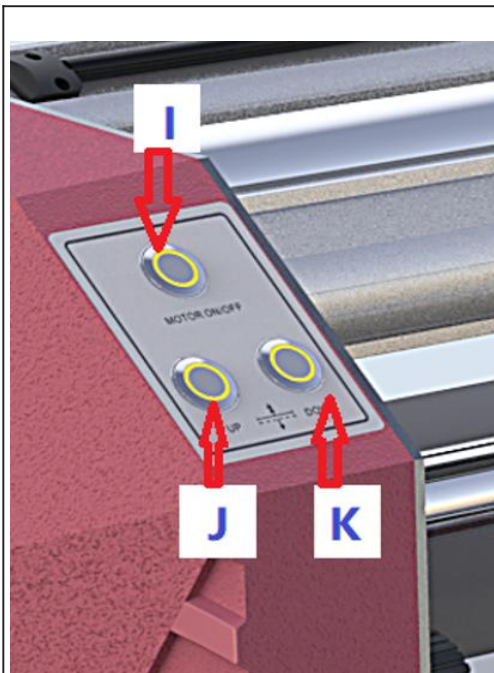
**E- Control the rotation direction of the motor.**

**F-Speed Control Button,** Control the speed of the roller.

**G- Used to control the rise of roller.**

**H- Used to control the drop of roller.**





**I- Control motor start or stop**

**J- Control side cutter idler to raise up**

**K- Control side cutter idler to lower down**

## ● TEMPERATURE SET

Press the temperature up/down key to fix setting temperature and it will show the actual temperature after 6 seconds setting.

## ● Parameter setting

Press and hold: “C” for 3 second to enter in the parameter setting. Press “C” to show D-1, D-2, D-3, D-4 in order, and it means finish once display END. Press up and down button to regulate the value of specification, if the buttons are not pressed in 1 minute, the specification setting state will be automatically ended.

Mode	Description	Range	Default
D-1	Temp calibration	-50-50°C	0°C
D-2	Max temp alarm	10-170°C	60°C
D-3	Max temp	10-150°C	40°C
D-4	Temp unit	0-Celsius、1-Fahrenheit	0
END	FINISH		

### Notes:

- The specifications are set when shipped from the factory. Do not change the specifications at random.



## V. USAGE OF MACHINE

### ■ Power Connection

- **Power cable:** It was installed the standard power supply plug, before plug in, please check your power supply voltage is same as the machine's rated operating voltage, also should verify the access to the socket is in requirements, and have a good grounding, and the capacity is large enough.
- **Main switch:** It is installed in the rear of machine (Cold series is the rocker switch, and Warm series is the air brake switch), the switch has two positions, up to open, down to close.

### ■ Foot pedal

Foot pedal is another way to control the start and stop roller rotating. Step on the foot pedal, press the direction button to adjust the speed, then the roller runs, roller stops when loose. Plug in and lock the screw before using

**Note: The protect sensor can't be used with foot pedal together.**

### ■ Emergency button

In case of emergency, press the red button to shut off the electric, roller stopped. Turn the button clockwise, the button will rise up automatically. Press "on" from control panel, the roller can start to rotate. The emergency stop button is an important safety features, check its function periodically.

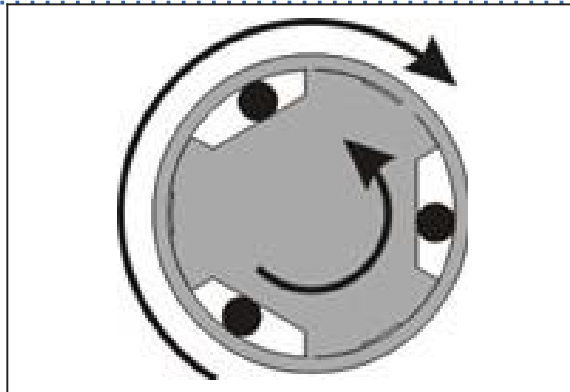
### ■ Roller Up/ Down

OE series -Electric lift up type: Power on motor, Press UP button to lift up top roller and press DOWN button to lower it.

P series -Pneumatic lift up type: Turn on the power supply and connect the air compressor, Press UP button to lift up top roller and press DOWN button to lower it.

### ■ Function shaft Installation and using





Easy install and dismantle shaft by aligning the "I" bracket (see 4.3). Three rubber straps on each shaft used to fasten the paper tube. Put 3" tube on the shaft, then rotate the paper tube to fix it on the shaft.

## ■ Friction pad checking and replacement

Check and replace the friction pad in period, it is consumable parts.

- **Friction system for media unwind:** it is combined by bracket, metal friction pad, fiber friction pad, spring, spring bracket and black handle. Adjust pressure on spring by rotating the handle. When the shaft rotating, the key connects fiber friction pad and bracket to create friction, the shaft rotating controlled by friction. The friction pad create friction, the friction pad will be wear and tear during using. Replace the friction pad when friction disappeared.
  - ✧ **Ways to replace:** take off the handle, spring, fiber friction pad, metal friction pad, then change a new metal friction pad.
- **Friction system of media rewind:** it is combined by bracket, metal friction pad, fiber friction pad, spring, spring bracket and black handle. Adjust pressure on spring by rotating the handle. When the shaft rotating, the key connects fiber friction pad and bracket to create friction, the shaft rotating controlled by friction. The rewind shaft controlled by motor, at the same time, rewind sprocket driven by friction rotation. When the shaft rotating, the key connects fiber friction pad and bracket to create friction, the shaft rotating controlled by friction. The friction pad create friction, the friction pad will be wear and tear during using. Replace the friction pad when friction disappeared.
  - ✧ Ways to replace: take off the handle, spring, fiber friction pad, metal friction pad, then change a new metal friction pad.
  - ✧ Friction system for film unwind: it is combined by bracket, metal friction pad, fiber friction pad, spring, spring bracket and black handle. Adjust pressure on spring by rotating the handle. When the shaft rotating, the key connects fiber friction pad





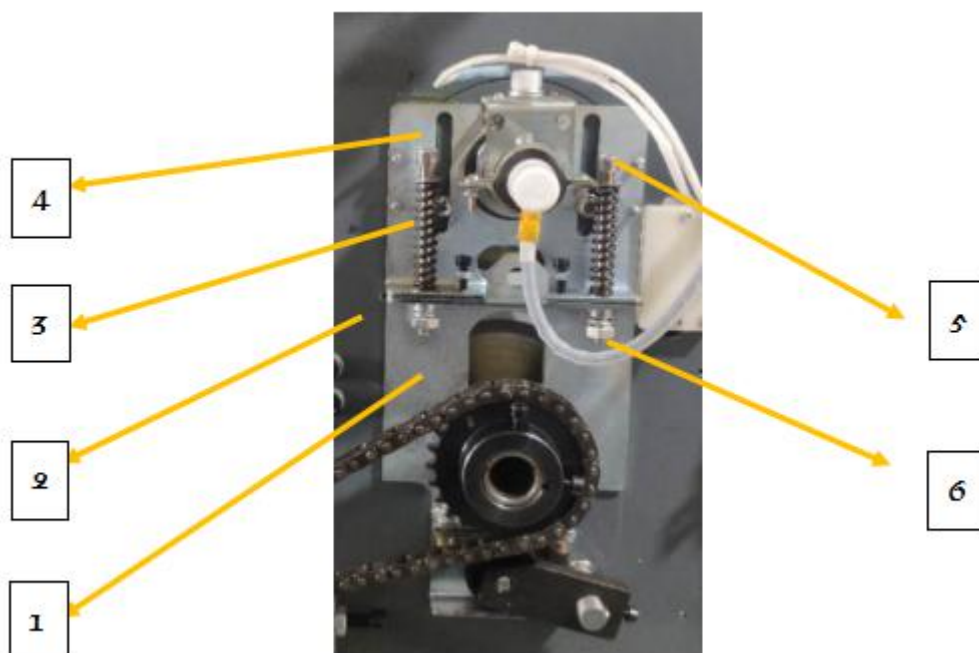
and bracket to create friction, the shaft rotating controlled by friction. The friction pad create friction, the friction pad will be wear and tear during using. Replace the friction pad when friction disappeared.

✧ Ways to replace: take off the handle, spring, fiber friction pad, metal friction pad, then change a new metal friction pad.

- **Friction system for liner rewind:** it is combined by bracket, metal friction pad, fiber friction pad, spring, spring bracket and black handle. Adjust pressure on spring by rotating the handle. When the shaft rotating, the key connects fiber friction pad and bracket to create friction, the shaft rotating controlled by friction. The friction pad create friction, the friction pad will be wear and tear during using. Replace the friction pad when friction disappeared.

- **Ways to replace:** take off the handle, spring, fiber friction pad, metal friction pad, then change a new metal friction pad.

➤ **Check and adjustment of parallel adjustment and pressure balance**



1.left pressure bracket  
4. top pressure bracket

2. left cabinet  
5. pressure bolt

3. Spring  
6. Screw

Top and bottom rollers are the key component of the laminator and they directly affect the



quality of laminating and titled image. The rollers are parallel before shipment. The roller will be unparallel due to the shaking in transportation. Following below step to adjust the roller parallelism.

➤ **Roller pressure adjustment**

The unbalance pressure for top and bottom roller may cause the tilted and wrinkling problem. The method of adjusting:

- 1) Take a record for the tilted side. Turn off the machine and take off the side cover.

**NOTES: The quantity of components in left side cover is less than right side cover. To avoid components damage by inappropriate operation, check the left side cover in priority.**

The bolts connect the left bracket and top bracket with spring and nuts on the top. The top nut is welded with top bracket, the bottom nuts can be adjustable.

- 2) When the image is tilted on left side, the left side pressure must be bigger than right side. Adjust the bolts to reduce the pressure. It should be possible to keep same adjustment for bolts on both side.

**NOTES: Measure the length for two springs and keep the same height.**

- 3) When the image is tilted on right side, the left side pressure must be smaller than right side. Adjust the bolts to increase the pressure.

**NOTES: Check the spring changes when put max pressure on the machine after adjustment. If no change, it will cause the spring damage during laminating. If no extra space to adjust on left side spring, please try to adjust on right side.**

- 4) After adjustment, fasten the nuts.
- 5) Put on the left side cover.

**Adjustment principle: if the image is off-tracking to the left side, the pressure of the left side is higher than the right side. Loosen the spring on the left side to reduce its deflection.**





### ➤ ROLLER PARALLELISM ADJUSTMENT

The gap is 1-2mm between bottom and top roller, if the gap isn't the same, take a record for the smaller gap side. Make the hand wheel feel loose, turn off the machine, open the left(right) side cover. Loosen the nuts, adjust the location of the bolts until the roller is parallel. At last, put on the left side cover.

**NOTE: The roller is parallel before shipment. The roller parallel can't be changed. Pressure should be adjusted first when have the tilted problem. Only adjust the bolt when the roller isn't parallel. Roller pressure should be adjusted accordingly after change the bolt.**



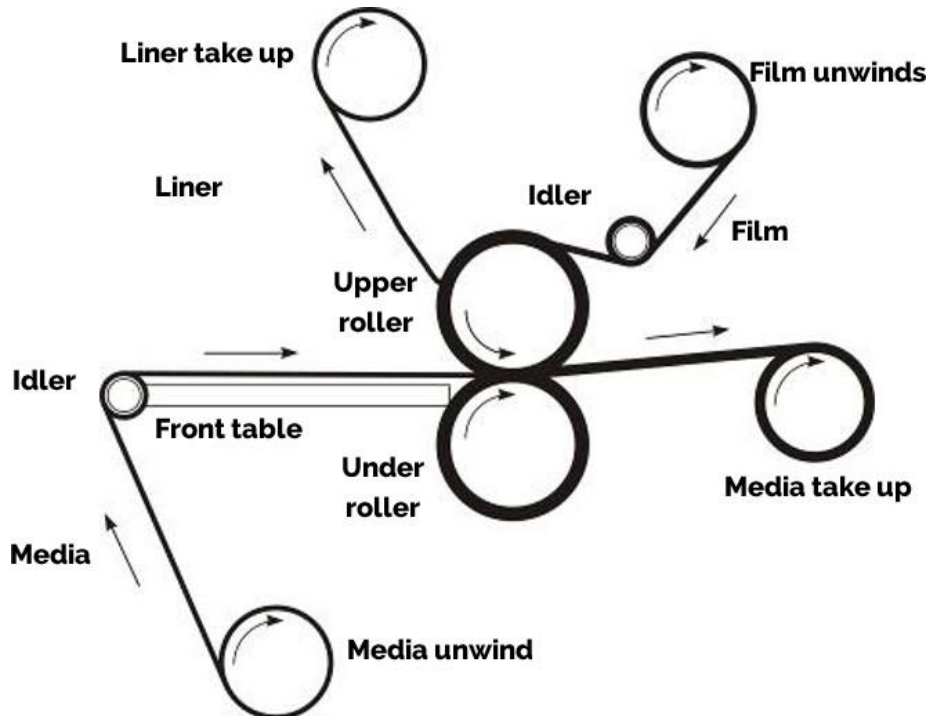
**Tools:** 5mm inner hexagon spanner, 8mm wrench.





## VI. Laminating Process

### 6.1 Lamination Principles



### 6.2 Operation

Lamination is an experienced and more technical work. Starters should be under guidance of an experienced technician. Following is lamination instruction.

1. Rise the top roller and take off the pressure board.
2. Turn on the machine, press running switch, speed at 1.
3. Turn on heating, the set up temperature is 40°C (104°F) for cold lamination film. Turn off the roller rotating when reach the temperature.
4. Put the film roll on the shaft, insert the shaft to side bracket. Pull out several meters by hand and make sure some tension on the shaft. Adjust the friction by side wheel if needed.
5. Wrap the film around roller and idler bar according to the diagram. Be careful that the film should be with tension on and even.
6. Slit the film to separate with liner at suitable place, and reveal the liner to put it on the film rewind shaft.

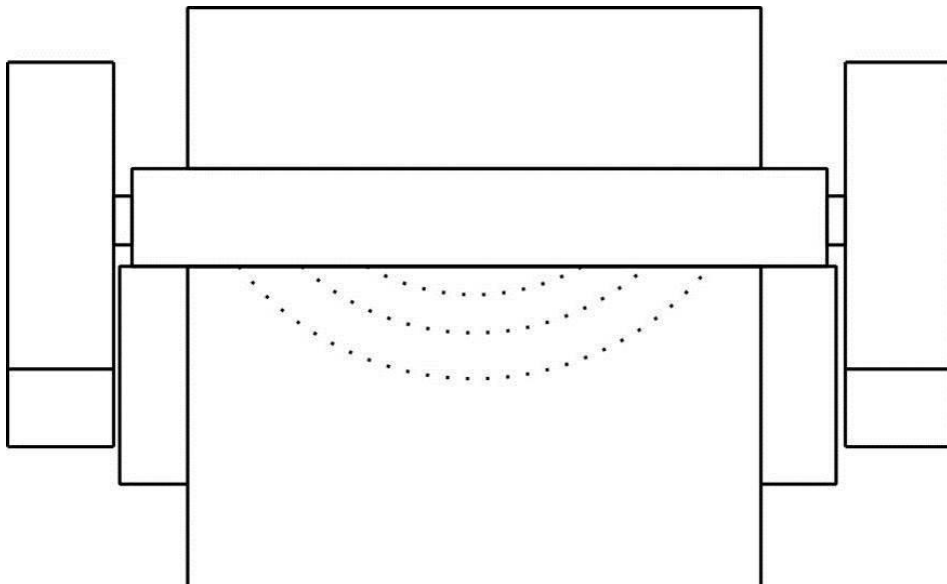


7. put the media on the shaft and adjust the friction. Insert the media in space between rollers. Be noted that the media should be even on the working table, media edge align with film edge to avoid walking deviation. (always operated by foot pedal).
8. Put the pressure plate in stable laminating process, put on the switch, put the laminated media on the shaft, adjust the friction to make automatically take up.

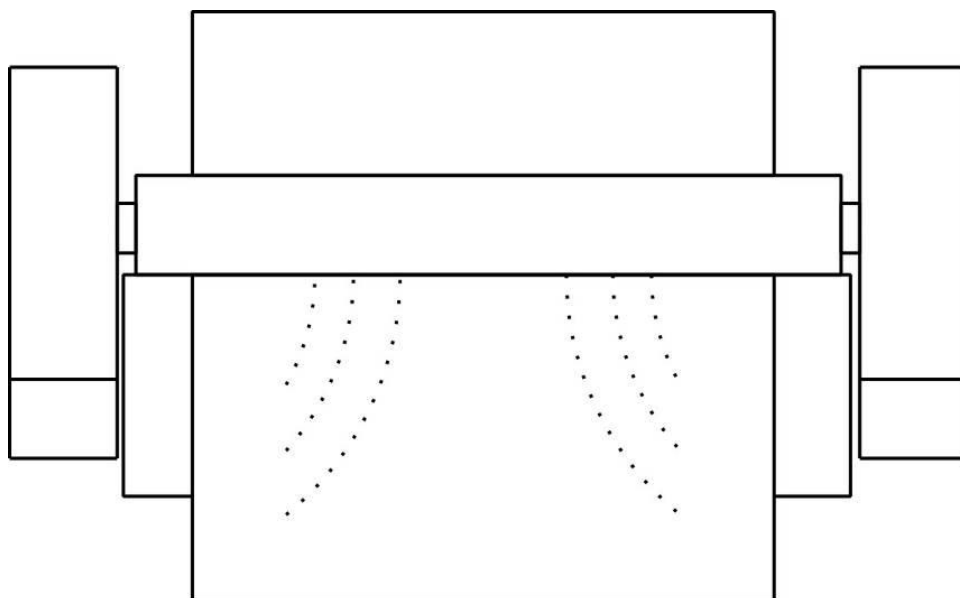
**Note: the laminating performance is related to the friction adjustment of all shaft.**

### 6.3 Notes for Operation

1. Place the laminator on a stable flat surface with good ventilation. Don't put much stuff around the machine to avoid the necessary problem.
2. The power cord not allow to put on ground nor with object on top.
3. Make sure suitable friction on all shafts. Adjust the friction of liner rewriter to separate the film.
4. Keep the edge flat of media and film roll.
5. don't run so fast at the beginning. Increase the speed when everything is running well.
6. make sure the media is dry to guarantee the laminating result.
7. The "U" shape reflects normal pressure, if the "U" is too big, decrease the pressure to get good laminating result.



8. For the issue in above picture indicates the pressure is too small, please increase pressure to improve



9. If the image is off-tracking on the left right of the machine, it indicates the pressure on the left side is higher than that on the right side, please decrease the pressure (see chapter 4).
10. No need heating for cold lamination film. If your working condition is lower than 10°C (50°F), please heat to 40°C (104°F) to get satisfied performance.

## VII. Problems and Solutions

First of all, please check if any destroy parts on your machine, if so, repair the broken part then run the machine.

Trouble	Reason	Solution
Although the main is plugged in and the power-on button is pressed, the LED does not light up.	The power plug is not well-connected.	Check the plug to ensure connect ion.
	The voltage of the main does not adaptable to the required voltage.	Check the voltage of the main to ensure its adapt ion to the machine.
	Emergency stop is not switched on.	Turn on the emergency stop.
	The fuse link beside the power cable is un-installed or damaged.	Check the fuse to ensure it is not damage.
The power is connected; air break is turned on but trip.	The heater in the top roller is damaged which leads to short circuit.	Check and replace a heater.



The motor can not be started.	The speed controller fails.	Replace a speed controller.
The motor runs fast and its speed can not be controlled.	Potent iometer fails.	Replace a potent iometer.
The rotat ion of the rollers stops from t ime to t ime.	The chains are too loose.	Tighten the chains.
The film peeling-off separat ion point is too high.	The damping of the liner paper roll is too much.	Reduce its damping by turning its tension control knob.
The film peeling-off separat ion point is too low.	The damping of the liner paper roll is too less.	Increase its damping by turning its tension control knob.
The cold laminat ion film separated from its liner paper has diagonal lines.	The pressure on the two sides of the film is imbalanced.	Smooth the film by hand.
The image on the in-feed table has U-shape lines.	The pressure between the rollers is too much.	Reduce the pressure and use top plate to press it.
The image on the in-feed table has splay lines.	The pressure between the rollers is too less.	Increase its pressure.
The image is off-tracking.	The pressure on the left and right side is imbalanced.	Refer to the Sect ion of Align the main rollers.

## VIII. Maintenance

1. Only experienced operator could open the cabinet, be noted following measures;
2. Don't use abrasive cleaner to clean the machine surface.
3. Check the rotation parts regularly and fill high-temperature grease to lubricate the two bearings of heat ing rollers.
4. Do not wash the machine with water. This can damage the electrical circuits, cause electrical shock or corrosion.
5. During maintenance, don't run the machine
6. During maintenance, don't change, move and dismantle the safety parts. Make sure the safety parts before using.
7. Cut the power supply before dismantling and assembly.

### 8.1 Maintenance of rollers

**The main rollers are the crucial parts of the machine. They directly relate to the output quality of lamination. Please make maintenance regularly.**

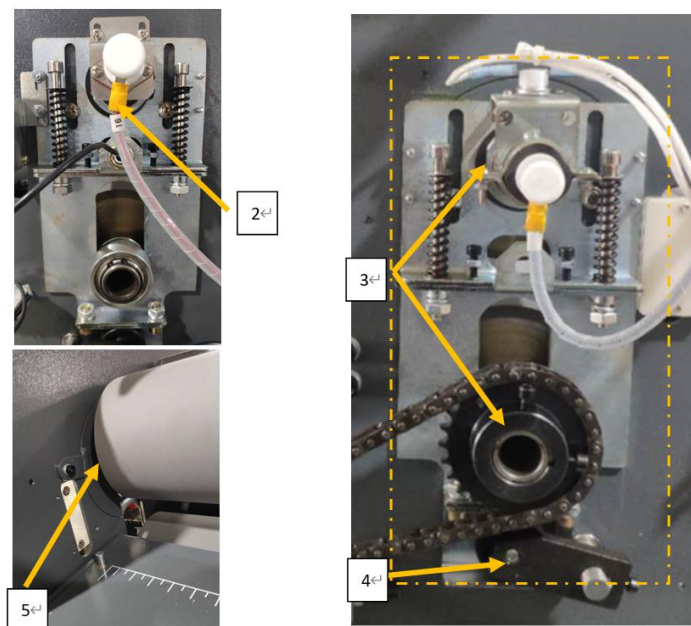
1. Lift the upper rollers after work to prevent deformation of rollers.
2. Make sure the knife or sharp items will not scratch the rollers. Lift the



- 3 To extend the lifetime of the rollers, please ensure the rollers are clean. please remove the adhesive residue by a piece of flannelette with alcohol, detergent or eraser.
- 4 Please remove the adhesive residue by a piece of flannelette with alcohol, detergent or eraser.
  - Stop heat ing when wiping rollers and be sure that temperature is less than 40°C (104°F).
  - Gently wipe the rotat ing rollers, and avoid concentrat ion of wiping one point to prevent part ialdamage roller surface.
  - Clean up the residual glue on the rollers, otherwise, it will affect the effect of laminating.

➤ **Roller replacement**

1. Open cabinet on both sides;
2. Remove the heater wiring, the machine should be power off first;
3. Remove the gear;
4. Remove the ent ire block bearing set and heater;
5. Remove the collars on left cabinet;
6. Take off the roller;
7. Install new roller;
8. Repeat the previous step to install machine.



## 8.2 Cleaning

- 1 To extend the lifetime of the machines, please ensure the machines are clean.
- 2 Make sure environment clean and keep away from obstacles.

## 8.3 Checking

In order to ensure your safety, please check the safety of the machine regularly. If you find failures in the check, please refer to the section of Troubleshooting and solution. If you need to reset the pressure, please refer to the section of Pressure setting.

### 8.3.1 Visual Checking

Visual checking prior to maintenance.

- 1 power supply cable undamaged.
- 2 Caster is stable.
- 3 Any damage on machine

### 8.3.2 Safety Parts Checking

- **Emergency switch**

- 1 Turn on machine
- 2 press the emergency switch, machine stop or not
- 3 Turn on machine when emergency switch is on
- 4 Release the emergency switch, turn on and start to run machine.

- **Photocell checking**

- 1 turn on the machine
- 2 roller rotating
- 3 hide the photocell, check roller rotating or not
- 4 move the obstacle, check roller rotating or not.

**Caution: When use the pedal switch, the optical switch does not work.**

### Attention!

Through poor conditions of the electrical MAINS, shortly voltage drops can appear when starting the EQUIPMENT. This can influence other equipment (eg. Blinking of a lamp). If the MAINS-IMPEDANCE  $Z_{max} < 0.300 \text{ OHM}$ , such disturbances are not expected. (In case of need, you may contact your local supply authority for further information.)





### WARRANTY CARD

MODEL		LOT #	
BUYER		DATE	
SELLER		TEL	

#### Notes

- The warranty card should be filled by seller and kept by buyer. Alterations are prohibited.
- The guarantee period is two years. The repair is free of charge within 6 months and will be charged with material and labor cost after 6 months.
- No free repair is available for any damages caused by the improper use.

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