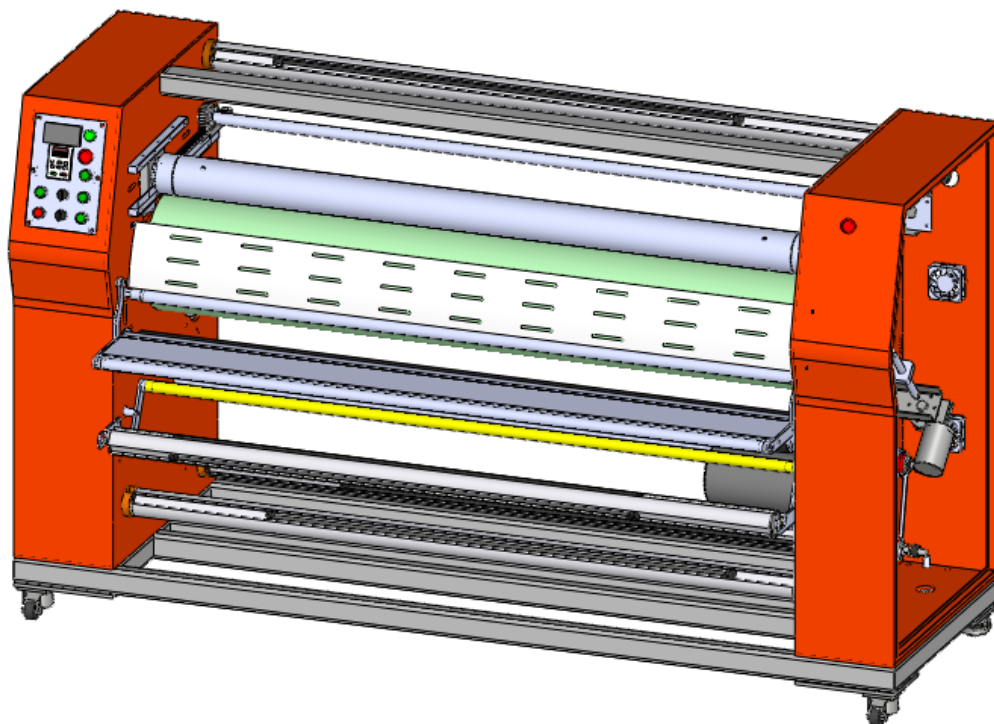




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# Heat Transfer Equipment



## User Manual

BU1700TTM

Beijing Fulei Industrial & Commercial Co., Ltd.

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## **1. Company Profile**

Thank you for choosing our products. BU1700TTM is the new type of heat transfer equipment, and it is independently developed by our company in 2009. It fully represents the advantage of the speed and good effect in transfer printing. It adopts the oil heating mode to control the temperature, achieving speed in warming and good effect in the heat preservation, as well as improving the productivity. In addition, it has functions such as automatic blanket off, automatic lifting off backing paper and automatic rolling picture etc. The equipment, through a series of human-based innovation design, makes your work safer and easier.

In order to achieve the optimum quality when using heat transfer, as well as to achieve the machine service life extension, please read the instructions pertaining to the installation, operation and maintenance in the manual. At the same time, please fill the warranty bill, and send to our company by fax or courier so as to be enjoyed better after-sale service from our company. The contact information is shown in the last page.



## **2. Safety Instruction**

Before the operation, please read the safety instruction carefully to fully understand the machine's primary structure, function, and operation method. If conditions permit, the training to the operators is required, and the operators, passing the examination, are allowed to operate and maintain. During the operation and maintenance, please pay attention to the warning signs, pasted to the equipment, and improve the safety awareness to prevent the accidents and to guarantee operator's personnel safety.

### **2.1 Safety Components**

#### **2.1.1 Emergency switch**

There are three red Emergency switches on the equipment. Press the switch to power off the machine immediately; when clockwise rotating, the Emergency switch will rise automatically; restart the power switch on the main control panel to resume the equipment operation. Please press the switch immediately in the case of emergence. Attention: Because the Emergency switch is the important safety component, please regularly check its function if in sound condition.

#### **2.1.2 Automatic Off-blanket Switch**

The switch is on the main control panel. When the heat transfer finishes its working, the equipment stops heating. Following pressing the switch, the blanket belt is separated automatically from the heating roller to prevent the blanket from being damaged by roller's high temperature. Then press the safety pin in the upper end of the protective covering to make the felt belt leave the heating roller, so as to avoid the incident due to the high temperature.

#### **2.1.3 Heating Roller**

Following heating, the surface temperature of the heating roller could be up to over 240 °C. The warning device will alarm when the temperature exceeds 260 °C. When heating, please don't touch the roller surface with any part of the body to avoid



crushing or burning. When the machine is heating and operating, the operators shall be present to avoid the roller damages or the fire due to the overheating.

## 2.2 Warning Sign

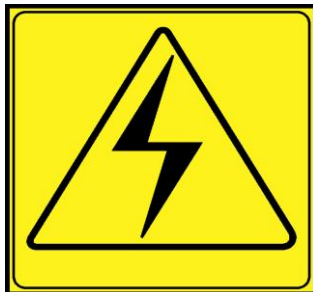
**Please pay attention to the following warning signs. The cases shown in the signs are likely to cause machine damages or injuries of the operators.**



### Anti-grinding sign

This sign is shown at the junction of the upper and lower drive rollers, respectively at the both sides of the machine front.

The rubber roller in operation is relative dangerous. Please don't let your hand, clothes, hair or other parts of your body touch it to avoid incident.



### High Voltage Sign

This sign is shown at the inner flank of the box.

High Voltage! Don't touch to avoid electric shock.



### Chain Sign

This sign is shown at the inner flank of the left box.

Please don't let your hand, clothes, hair or other parts of your body touch the chain in operation to avoid injury.



### Burning Prevention Sign

This sign is shown at the heating roller of the box.



Heating roller is the heating component, so don't touch it. When the power is off, upper rubber roller requires enough time for heat output. Don't touch it immediately to avoid burning incident.

## **2.3 Safety Tips**

- 1) The electrical power source, used for the equipment must be in line with the type, designated by the nameplate. The earthing must be accurate and reliable (equipment with three-terminal polarized plus plug not allowed to change the function of the earth electrode freely).
- 2) When the equipment is operating normally, the surface temperature of the heating roller is very high, and please don't touch it with you hand.
- 3) When open the box to exam and fix of the equipment, the power must be shut off to avoid electric shock or mechanical wounding incidents. When the transfer work has been finished the power should be cut off too.
- 4) Don't place the power lead on the walkway or pile up good on the lead. Strictly prevent the power lead from rolling depression by the vehicles.
- 5) Mounting card and transducer in the box should be kept clean to avoid metallic conduction material such as dust falling into. Don't open the protective covering to avoid the electric shock.
- 6) The working place should be dry and well ventilated. Please stay away from the water or the damp place when use the equipment. Don't pile up the inflammable or explosive materials near to the equipment.
- 7) Don't put tools or other sundries, such as screwdriver, screw nail and nut etc. at the worktable, upper surface of the right box and other parts of the machine, to avoid falling into the rotating rollers, causing damages to the machine.

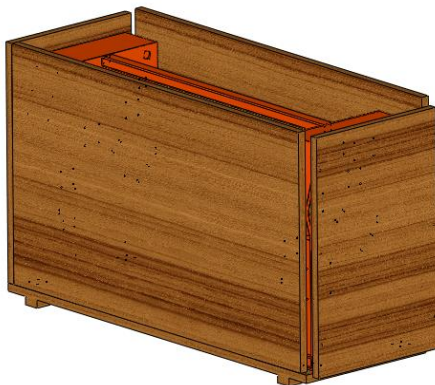
Don't wash the machine with water to avoid the short circuit, electric shock and the equipment corrosion.



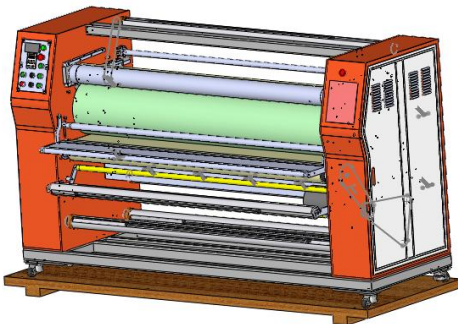
### 3. Stripping



Step 1: Tear down the wooden top  
(12/13/14 wrench is required)



Step 2: Take apart the four sides of  
the box in turn (12/13/14 wrench is  
required)



Step 3: Loose the bolt, linking  
together the bottom board and the  
machine (17 wrench is required), and  
remove the machine by fork truck.

Instruction: The picture is the schematic diagram, and the bolt amount shall be subject to the size of the packing container.

Attention: When removing the machine by the fork truck, please be sure to put the beam of the machine bottom, at the fork truck, and at the same time someone should hold both sides firmly. Please be careful in the transportation process to avoid the damage by drop of the machine.





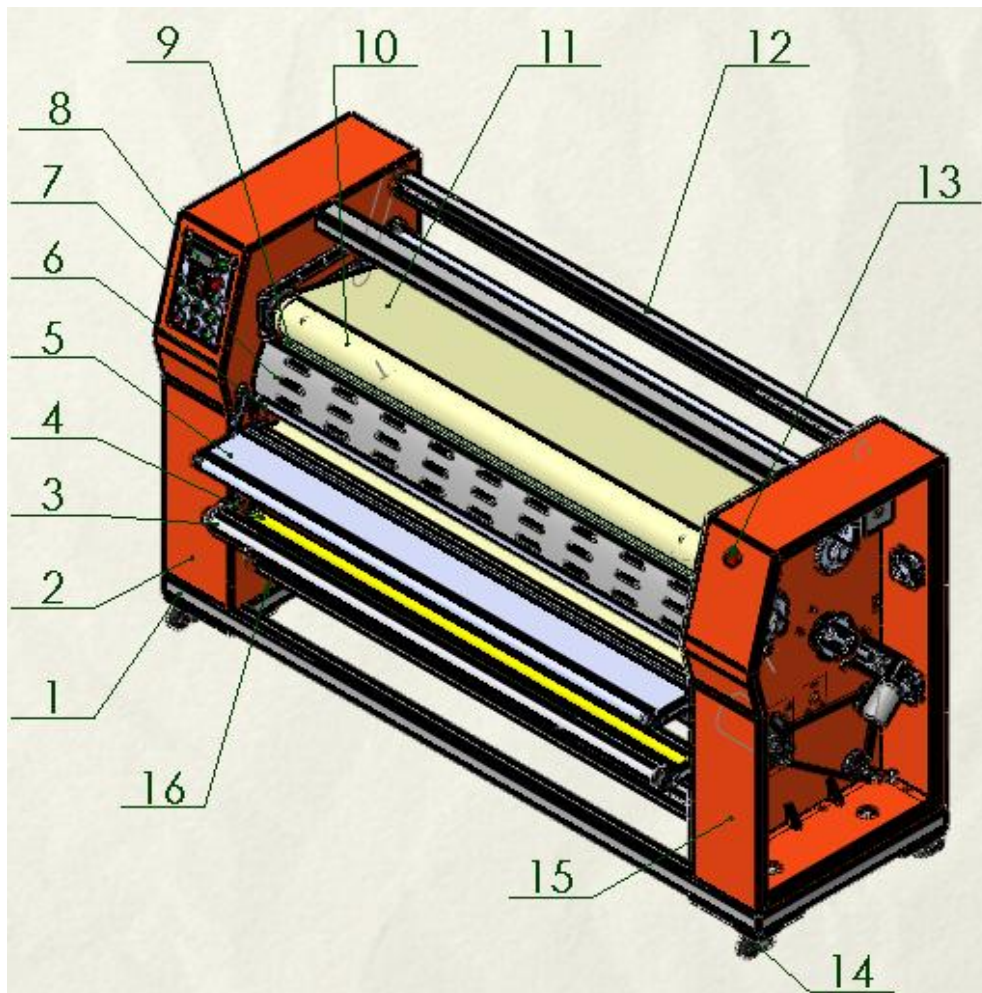
## 4. Technical Specification and Relevant Parameters

	<b>Metric System</b>	<b>British System</b>
<b>Width of the Heat Transfer</b>	1700mm	66.9in
<b>Transfer Speed</b>	0-4m/min	0-157in/min
<b>Size of the Blanket Belt</b>	Φ2530X1800Xδ6	100x71x0.2in
<b>Heating Method</b>	heating conducting by oil	
<b>Heating Temperature</b>	0-240℃	
<b>Heating Power</b>	13.5KW	
<b>Supply Voltage</b>	380V AC 50Hz	
<b>Rated Power Capability</b>	30A	
<b>Main Electric Motor Power</b>	750W	
<b>Dimension</b>	2480mm(L)×780mm(W)×1435mm(H)	98×31×56(in)
<b>Scram Switch</b>	3	
<b>Weight</b>	1100Kg	



## 5. Name of Each Part of the Machine

### 5.1 Front Elevation



- 1.Framework 2.Left Box 3.Extracting Roller for Transfer Paper 4.Tension Rod  
5.Worktable 6.Pressure Bar for Picture 7.Protective Covering  
8.Control Panel 9.Heating Roller 10.Blanket Off Roller 11.Blanket Belt  
12.Receiving Roller for Transfer Paper 13.Emergency switch  
14.Truckle 15.Right Box 16.Extracting Roller for Picture

### 5.1.1 Commentary

#### Heating Roller

As the heating roller is the core component of the machine, its maintenance shall be conducted well. Before the use, the equipment surface shall be kept clean. The roller surface was processed by special technics, therefore please don't clean with



corrosive liquid to avoid the scratch by dropping of the hard object.

At its left side, there are temperature-controlled components, such as the slip ring and temperature probe. The slip ring is equipped with protective covering, and don't open the protective covering to avoid the electric shock.

In the factory, the heat transfer oil has been injected into the heating roller. During the trial operation in the equipment installation, the heating roller is required the warm-up through rotating. Stop the machine upon up to the approximate 100°C roller surface temperature. At that time, put the drain oil hole, which is at the right side of the heating roller, at the top end, loose slowly the screw of the drain oil hole with the wrench to release the gas in the roller till there is no gas releasing, and then tighten the screw. Rotate continuously to heat up to approximate 120°C, and repeat the aforementioned gas releasing operation for three times, following which the equipment will be used safely.

### **Function Roller**

The machine has five functional rollers, which are extracting roller for transfer paper, extracting roller for picture, receiving roller for transfer paper, receiving roller for picture and receiving roller for lining paper. Inside of the right box, there are four small black handwheels, which are the adjusting handwheels for the damping (friction) of the functional rollers. Clockwise rotation will increase the damping, while counterclockwise will decrease the damping. Please adjust the damping in accordance with the effect of the heat transfer to ensure the quality.

### **Supporting Truckle**

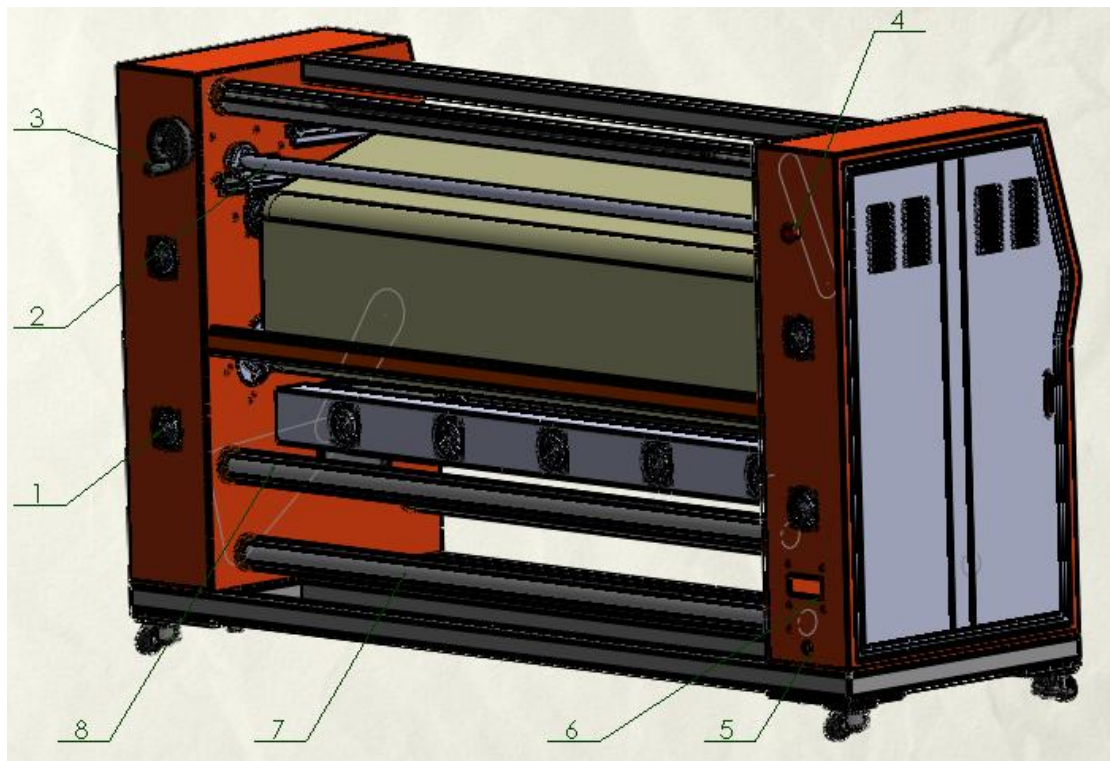
The truckles have supporting seat, and please take out the supporting seat to fix following the installation.

### **Emergency Stop Switch**

In the case of emergency, press the red button to cut off the power immediately and at the same the rubber roller will stop operation. When clockwise rotating, the red button will rise automatically. Restart the power switch on the control panel to resume the rubber roller operation



## 5.2 Back Elevation



1.Fan 2.Blanket Off Transmission Shaft 3.Handwheel 4.Emergency switch 5.Power Lead Interface

6.Air Switch 7.Receiving Roller for Lining Paper 8.Receiving Roller for Picture

### Commentary

#### Handwheel

In the case of power off during equipment normal operation, manually rotate the handwheel to separate the blanket belt from the heating roller to avoid the damage to the blanket due to the roller high temperature.

Power Lead Interface

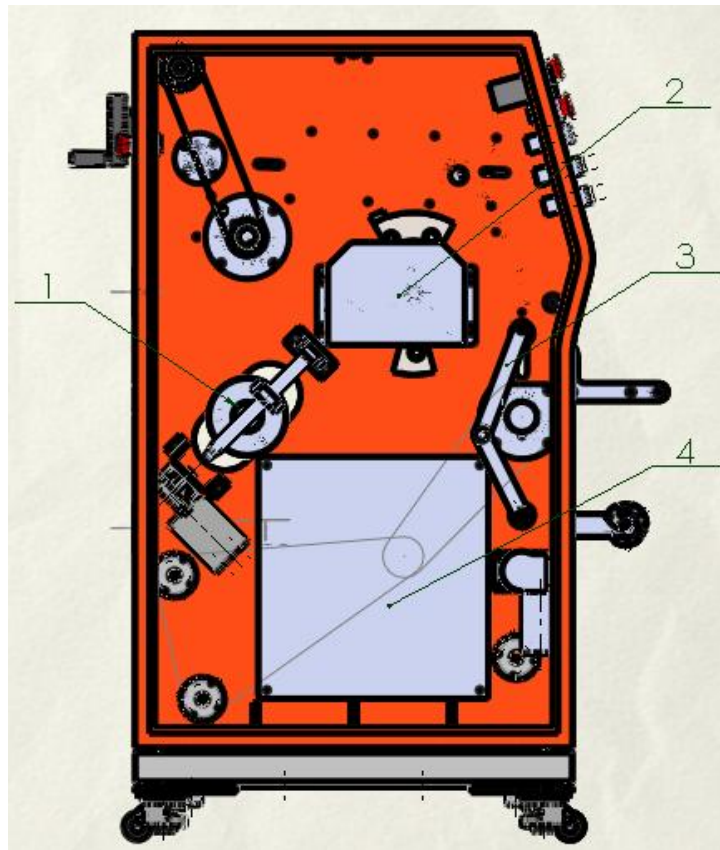
#### Power Lead Interface

Connect the power lead; close the back open space of the left box; reset the scram turn button. This moment the red indicator light of the stop button in the main control panel is lightened; if press the green start button to connect the control source, the indicator light of the green start button will be lightened and the red light will be put



out. The temperature controller and the speeder of the equipment start to run.

### 5.3 Structure of the Left Box



1.Shift Excursion Correction Component 2.Protective Covering 3.Tensioner Component 4.Switchboard

### Commentary

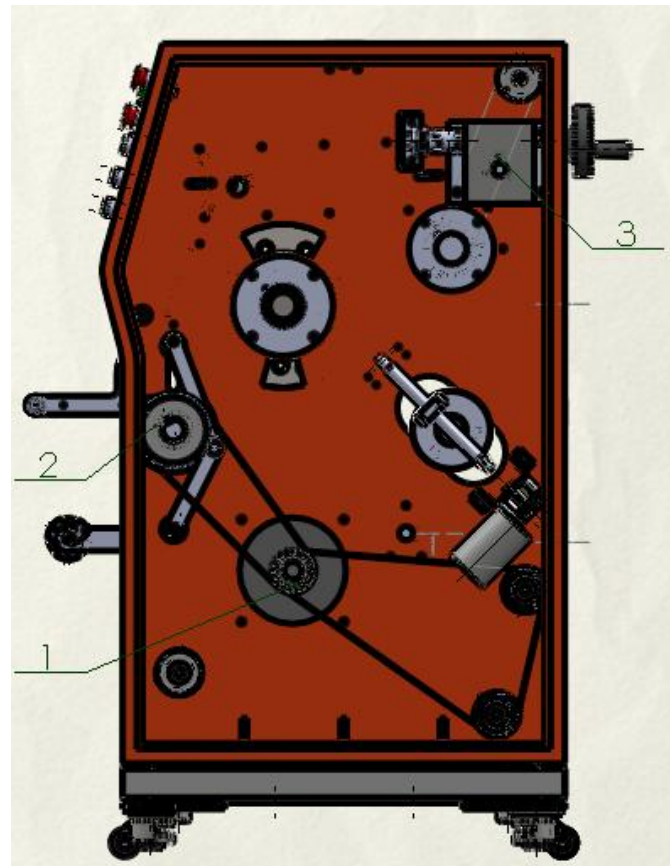
#### Shift Excursion Correction Component

When the equipment is working normally, there may be 3mm in shift excursion for the blanket belt, which belongs to normal phenomenon. This moment, the shift excursion shall be adjusted by the correction component. Blanket shift excursion to the left represents the left side is loose, and therefore press the white button at the left of the auxiliary control panel, and then the left side of the blanket belt will be tightened; blanket shift excursion to the right represents the right side is loose, and therefore press the green button at the right of the auxiliary control panel, and then the right side of the blanket belt will be tightened.



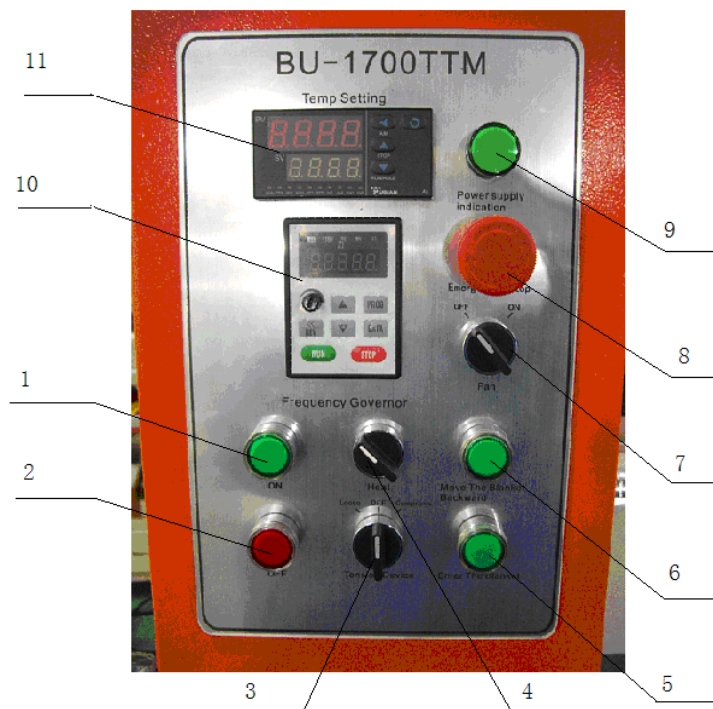


## 5.4 Structure of the Right Box



1.Chain Wheel of Electric Motor 2.Chain Wheel of Drive Roll 3.Speed Reducer

## 5.5 Main Control Panel





1. **Main Power Switch (ON):** as the main power switch to energize the equipment. After pressing the button to power on the equipment with a signal of the indicator light on, you can start the heat transfer work.
2. **Main Power Switch (OFF):** when press the button to turn off the main power of the equipment, the equipment will stop heat transfer work, and the blanket belt will disconnect with the heating roller automatically to prevent the blanket from being damaged by the high temperature of the roller.
3. **Lifting Pressure Lever Switch (Tension Device):** switch it on to start heat transfer, the pressure lever will drop automatically and the tension stand will pave the heat transfer material smoothly to bring out the best transfer quality.
4. **Heating Switch (Heat):** it is the main power of the heating roller for heating. Twist the knob onto the heating gear, and the heating roller starts heating.
5. **On-blanket Switch (Enter The Blanket):** long press of the button will start the blanket belt to enter the blanket. Use the Limit Switch to stop the blanket belt at the target place. The button is an interlock to the Off-blanket Switch.
6. **Off-blanket Switch (Move The Blanket Backward):** short press of the button will separate the blanket belt from the heating roller. Use the Limit Switch to stop the blanket belt at the target place. Pay attention to the blanket and avoid it from being damaged by the high temperature of the roller without delay. The button is an interlock to the On-blanket Switch.
7. **Fan Switch (Fan):** press the button to cool the automatic retracting of the transfer painting and prevent it from secondary transfer caused by the high temperature.
8. **Emergency Stop Switch (Emergency Stop):** in case of emergency, press the red button to cut off the power promptly and the driving roller will stop working. The red button will lift up automatically when rotate it in clockwise direction. But for recovery operation of the driving roller, you must press the power switch on the control panel.
9. **Power Instructions (Power supply indication):** when green indicator light of the power is on, it means the main power of the equipment is switched on.
10. **Speed Governor (Frequency Governor):** it is used for regulating the running



speed of the equipment in a good condition. Its setting range is 0-5 m/min. In order to obtain a better transfer result, it is proposed to set the operating speed at 0.5 m/min.

**11. Temperature Controller (Temp Setting):** its function is controlling the temperature of the heating roller. For utilizing the heater to heat the conducting oil, you can start or stop it through the Heating Switch. The temperature controller displays the predetermined temperature of the conducting oil and its real-time measured temperature. It will come out an alarm when the temperature of the conducting oil reaches up to 260 °C. When an alarm occurs, the heater will stop heating. The temperature controller regulates heating of the heater through collecting platinum resistance signal of the temperature, and there is also a display of the real-time measured temperature of the conducting oil on it. The numbers displayed in the upper row of the temperature controller panel reflects the outside surface temperature of the heating roller, while numbers showed in the lower row reflects the predetermined value of the temperature. It can be modified and set up according to specific needs of the user. The setting methods are as follows:

- (1) Set up the temperature:

Press the adjustment key to adjust it to the required temperature; confirm it by pressing the function key. At this moment the figures in the temperature frame begin flashing (when the temperature of the heating roller comes up to the predetermined value, the figures in the display window stop flashing).

- (1) If the function key isn't pressed after resetting the temperature, it will be confirmed automatically after 5 seconds.
- (1) The displayed temperature reflects the outside surface temperature of the heating roller, and there is an error generally within 5 degrees between the displayed temperature and the natural temperature.



图 四

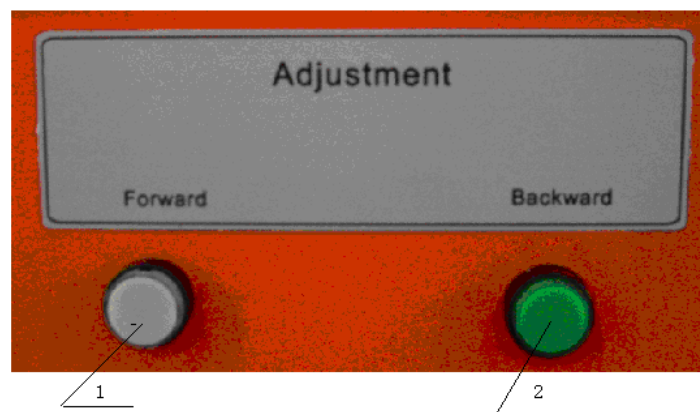
显示温度	displayed temperature
设定温度	predetermined temperature





Other parameters should not be altered because the settings have been completed before leaving the factory. To change the settings of the parameters, you should carefully read the manual of the temperature controller and operate the equipment on the basis of the procedures and methods demonstrated in it. In order to extend the life span of the equipment, please do not make frequent modifications to the settings of the temperature. And you must press the keys on the panel with slight strengths to prevent them from being damaged.

## 5.6 Sub Control Panel



1. **Left-side Tension Switch (Forward):** is the white button on the left side. It can correct a deviation of the blanket during the running time of the equipment by pressing the button. The corrective range of it is about 0-3 mm. If the blanket shifts to the left, it means the Left-side Tension Switch is loose, thus, press this button to strain the left-side of the blanket.
2. **Right-side Tension Switch (Backward):** is the green button on the right side. It can correct a deviation of the blanket during the running time of the equipment by pressing the button. The corrective range of it is about 0-3 mm. If the blanket shifts to the right, it means the Right-side Tension Switch is loose, thus, press this button to strain the right-side of the blanket.



## 5.7 Function Roller



1. end cap; 2. aluminum sections; 3. damping adhesive tape 4. fixed block

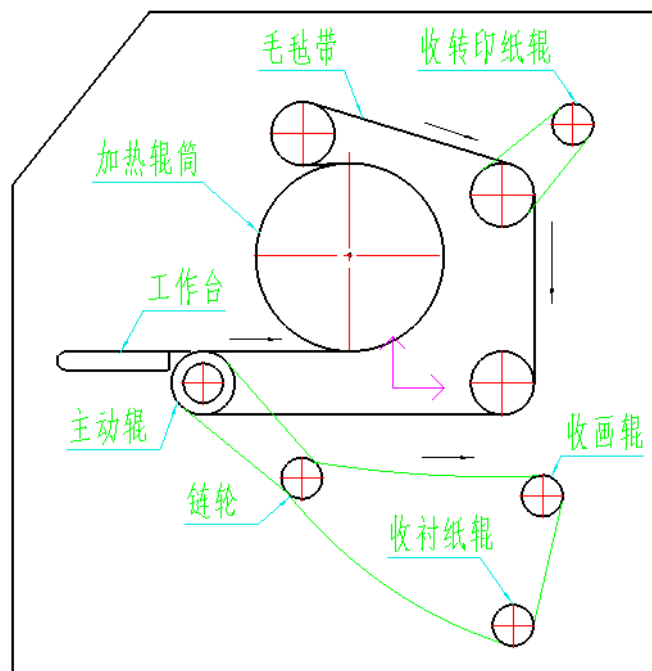
The Function Roller comprises of Extracting Transfer Paper Roller, Supporting Painting Roller, Receiving Transfer Paper Roller, Receiving Painting Roller and Receiving Backing Paper Roller. The rollers are all changeable and their construction are all quick detachable. The differences among the roller include: the Receiving Painting Roller and the Receiving Backing Paper Roller are driving rollers, while Extracting Transfer Paper Roller and the Extracting Painting Roller are non-driving rollers; both of the two types of rollers are equipped with damping adjusters for adjustments according to the transfer quality.

When dismount Extracting Film Roller and Receiving Winding Roller, you just need to twist the jacket on the Nylon supporting pedestal and align the gaps, after that, you can take down the Extracting Painting Roller and the Receiving Winding Roller. When mount the Extracting Painting Roller and the Receiving Winding Roller, you must pay attention to the flat mouth on the axis head, align it to the flat key in the supporting pedestal, and finally lock the axis head by twisting the jacket.



## 6. Principle of Operation

Before starting the transfer work, please find out its operating principles.



毛毡带	Felt Belt
收转印纸辊	Receiving Transfer Paper Roller
加热辊筒	Heating Roller
工作台	Workbench
主动辊	Drive Roller
收画辊	Receiving Painting Roller
链轮	Chain Wheel
收衬纸辊	Receiving Backing Paper Roller



## **7. Workflow**

- (1) Make sure earthing and power-line connection are both correct before startup of the equipment, then close the Air Switch.
- (2) Check up whether the blanket belt and all surfaces of the rollers are clean or not. Examine the tightness of the blanket belt because it shouldn't be strained too tight during normal operation. You should press the blanket with your palm to examine the tightness of it and make sure it keeps certain looseness.
- (3) Press the Main Power button and then press the Speed Governor button on the control panel to set up proper running speed for the equipment.
- (4) Twist the Heating Switch onto the heating gear and set up the required temperature on the Temperature Controller. The user can confirm specific temperature according to different transfer cloth. Use small piece of facing material or transfer paper as a testing print if you are not sure about the suitable temperature. Then you can make prompt adjustment when the temperature is too high or too low in order to ensure quality of the product.
- (5) Place transfer paper and transfer cloth onto the Extracting Transfer Paper Roller and the Extracting Painting Roller respectively. When the temperature comes up to an appropriate value, smooth out the facing material, pull it onto the workbench, then push it into the Heating Roller by pressing the Lifting Pressure Lever Switch. Notice: lay the transfer paper on the top of the transfer cloth with the inky side facing to the cloth.
- (6) When transfer long paintings, you can use Receiving Painting Roller. Make sure the tightness of the Receiving Painting Roller is at an appropriate extent while the transfer painting is smoothly entering the Rubber Roller. The tightness of the Receiving Painting Roller may adjust its damping hand wheel.
- (7) Do prevent any hard objects from touching the rollers during the course of transfer in case of any scratches happen to the surface of the rollers. Ensure safe production by keeping a clean environment around the equipment. When the equipment is running, any absence of the operator is banned in order to prevent



deviation of the blanket or other accidents.

(8) While doing transfer work, users can raise or lower the temperature of the Heating Roller or adjust the speed of the roller in accordance with color depth of the pictures which is in transfer.

(9) After the transfer finished, twist the Heating switch onto the Stop Heating gear, then press Off-blanket button for automatic disconnection of the blanket from the Heating Roller.

(10) Make sure keeping frequent maintenance and repair for the equipment, and making periodic examinations for every parts of it.



## **8. Notice for Heat Transfer**

- 1) Before dismantling the packing box, examine if there is any damage of it during the course of transportation which may cause further damage of the equipment in it.
- 2) After unpacking of the box, check up whether the fittings are complete according to the packing list.
- 3) The location for installation of the equipment must be large enough; the environment must be clean, without dust, steam, corrosive gas, or inflammable and explosive articles; and the ground must be flat.
- 4) The equipment loads single 220-240 VAC. Examine whether the power meets the requirement and has enough capacity or not before putting the electricity through. Make sure setting up a circuit breaker with single 22—240V, 20A at the power and the grounding is in a good condition in order to avoid any personal injury. In the total three of the cables, the brown-red one connects to the live line, the blue-black one connects to the null line, and the green-yellow one connects to the protective earth line.
- 5) Before starting the equipment, keep the surface of the Heating Roller, other surfaces of the driving roller, and the blanket in a clean state; avoid any scrub by corrosive liquid because the surface of the Heating Roller has been processed through special crafts; prevent hard objects from dropping into the equipment which may cause scratches to the surface of the roller.
- 6) While the equipment is in normal operation, serious deviation may occur if the blanket belt hasn't been installed properly. If it happens, you just need to press the Off-blanket button to let the blanket belt disconnect with the Heating Roller automatically, then readjust the position of the blanket.
- 7) While the blanket is disconnecting with the roller automatically, the gear rack will move backwards of the box body and some part of the rack may come outside, please pay attention to it to avoid any bumps.
- 8) While the equipment is running, there may be some noises caused by the Heating Roller, the bearings and the box body as they are expanded through heating.



9) Keep clean of the installation board for electrical parts inside the box as well as the frequent converters; prevent dust and other metal conducting articles from dropping into the box; do not open the electrical shield to avoid electric shock.

10) For any change of the main components like the Heating Roller and speed reducer, you must adopt special model of our company, do not make private modification or replacement.

11) The conducting oil in the Heating Roller has been configured before leaving the factory. As the using time and frequency increasing, the quality of the conducting oil may deteriorate gradually under high temperature. So we advise the user to make sampling analysis at regular intervals (annually, with 600ml at a time). Replace the conducting oil if it is found that the sampling conducting oil is deteriorated after the analysis. Please select appropriate petrol pump to connect to the M16x1.5 filling aperture and leading out the conducting oil. After pouring the new oil into the machine, try out the machine by heating the roller to 120℃, during this course, three times of exhaust are required for the Heating Roller. Please see also the 5.1.1 Notes of the Heating Roller section for detailed instruction. Make sure to choose proper model and capacity of feed oil. The model and capacity of feed oil selected by our company are 320# and 50L respectively. Our company will not take any responsibility if any security incident happens because of the incorrect operation which disobeys the requirements above.

12) The front part of the workbench is a non-load-bearing structure which is detachable. While carrying the equipment, please do not place any heavy object or pressure on it in order to avoid damage of the countertop and its positioning screws.

13) While using the fork truck to carry the equipment, you can put the forks arms under the downside beam of the equipment stand; in order to prevent the equipment from toppling over forward or backward, make sure there are escorting people beside two sides of it for holding and protection purpose.



## 9. Equipment Maintenance

### 9.1 Daily Maintenance

No.	Events		Solutions
1	confirmation of the switches and the indicator light		please make prompt repair if any fault appears
2	heating-up failures	1) inadequacy of the voltage	boost the voltage
		2) disconnection or loosening of the incoming line or outgoing line	examine the lines
3	temperature out of control	1) breakdown of the solid state relay	replace the relay
		2) damage of the temperature controller	change another temperature controller
4	non-rotation of the roller	1) the blanket is too loose	strain the blanket belt
		2) skid of the chain wheel	tighten the fixed screws
		3) stuck of the bearing	replace the bearing
		4) fault of the frequency converter	make replacement
		5) fault of the motor or the speed reducer	make replacement





## 9.2 Periodic Maintenance

No.	Events		Solutions
1	heating-up failures	1) burnout of one or more heating pipes	make prompt replacement
		2) deterioration of conducting oil	make prompt replacement
2	driving roller maintenance		<ul style="list-style-type: none"><li>● keep clean of every driving rollers</li><li>● warm water or alcohol can be used while wiping the surface of the roller, but the gas is banned</li></ul>
3	the blanket belt is damaged by frequent use; the blanket can not be fully strained because it is too loose		make prompt replacement
4	confirm tightness of connectors of the electrical wirings		make adjustment
5	confirm whether the loosening of the mechanical fasteners are caused by vibration or other reasons		make adjustment



## 9.3 Main Trouble Shooting

Events	Cause	Solutions
1. out of power	1) the supply switch of the universal socket doesn't work well 2) the circuit breaker is cut down 3) the fault of the transformer 4) the switch doesn't work well	<ul style="list-style-type: none"><li>● repair and replacement of the components</li><li>● repair and replacement of the components</li><li>● repair and replacement of the components</li><li>● repair and replacement of the components</li></ul>
2. after putting thought the circuit and turning on the switch, the indicator light doesn't shine	1) the supply voltage doesn't match with the machine voltage 2) the Emergency Stop switch is not open 3) The protective tube beside the power line is not installed or broken	<ul style="list-style-type: none"><li>● check up whether the supply voltage matches with the machine voltage or not</li><li>● turn on the Emergency Stop switch</li><li>● check up whether the fuse is damaged or not</li></ul>
3. putting through the circuit, however, the Air Switch trips while turn it on	the short circuit is caused by the damage of the heating tube in the Heating Roller	<ul style="list-style-type: none"><li>● examine and replace the heating tube</li></ul>
4. the speed can not be adjusted and the motor is running at a fast speed	fault of the potentiometer	<ul style="list-style-type: none"><li>● make replacement of the potentiometer</li></ul>
5. the Driving Roller rotates off and on	the chain is too loose	<ul style="list-style-type: none"><li>● adjust the tightness of the chain</li></ul>
6. cross grain occurs on the surface of the transfer cloth	the pressure of the two sides are uneven when the transfer cloth entering the Rubber Roller	<ul style="list-style-type: none"><li>● appease the transfer cloth with hands</li><li>● press Lifting Pressure Lever to let the cloth enter the Heating Roller</li></ul>
7. the printed picture deviated in 10mm or so	the pressure of the left and right sides of the equipment are uneven	see also the Instruction of Rectifying a Deviation



## **Declaration**

Add the EMI filter of WEN ZHOU ZHENG LIANG ELECTRON ELECTRIC CO., LTD.(ZL-26A-M) to the equipments for EMC test.

## **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 you local supply authority for further information.)

## **Hinweis!**

Beim Anlaufen (Starten) dieser Ausrüstungen kann ein kurzzeitiger Spannungseinbruch auftreten, insbesondere bei schlechter Netzqualität. Diese Einbrüche können andere Geräte beeinflussen (z.B. Flimmern einer Lampe). Bei einer Netzimpedanz  $Z_{max} < 0.300 \text{ OHM}$  sind solche Störungen nicht zu erwarten.(Bitte kontaktieren Sie Ihre lokales Energieversorgungsunternehmen für weitere Informationen).



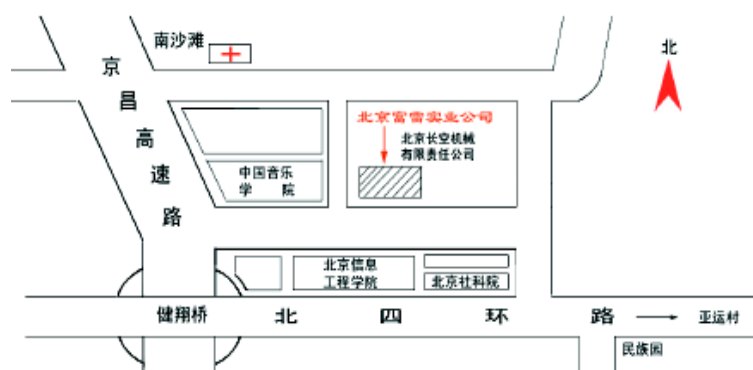
## Article I Warranty Bill

Product Model		Ex-factory No.	
Purchasing Unit		Purchasing Date	
Distributor		Tel.	

### Notes

1. The warranty bill should be filled by the selling unit and be held by the purchasing unit. Any alteration is invalid.
2. The warranty period for the product is one year; the user can take free repair within half a year with the warranty bill, and it will be paid for an additional flat cost fees after the time limit.
3. Any damage caused by incorrect operation leads to a paid repair.

Beijing Fulei Industrial & Commercial Co., Ltd.



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京昌高速路	Jingchang Highway
中国音乐学院	China Conservatory of Music
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北京长空机械有限责任公司	Beijing Changkong Machinery Co., Ltd.
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北京信息工程学院	Beijing Information Technology Institute
北京社科院	Beijing Academy of Social Sciences
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