



# FY-1600DA

Auto-electric laminator

USER MANUAL

# FAYON Electric cold laminator USER MANUAL

FAYON cold laminator FY-I 600DA is a professional equipment in the printing and post-processing, cater to your varying needs, widely used in the advertising, exhibition organizers, picture production, studio and many other fields, become the most ideal corollary equipment of digital printing products.

## Application

- Self-adaptive coated thickness, adjustable laminating pressure, fit for laminate rolling media and flat surface board.
- Simple operation, wide suitability, dependable safety, multiple functions.

**YOUR SATISFACTION,  
OUR ENDLESS PURSUIT!**



# TECHNOLOGY PARAMETER

Model	FY-I 600DA
Max laminating width	1 620mm
Max lamination thickness	35mm
Max speed	7m/min
Max temp	room~60°C
Roller upgrade	Air cylinder
Heating	Infrared
Preheating	10-15min
Power input	0.8-1.0kw/h
Volt	110/220v
N.W.	230kgs



we provide one year guarantee for our products

# FY-1600DA

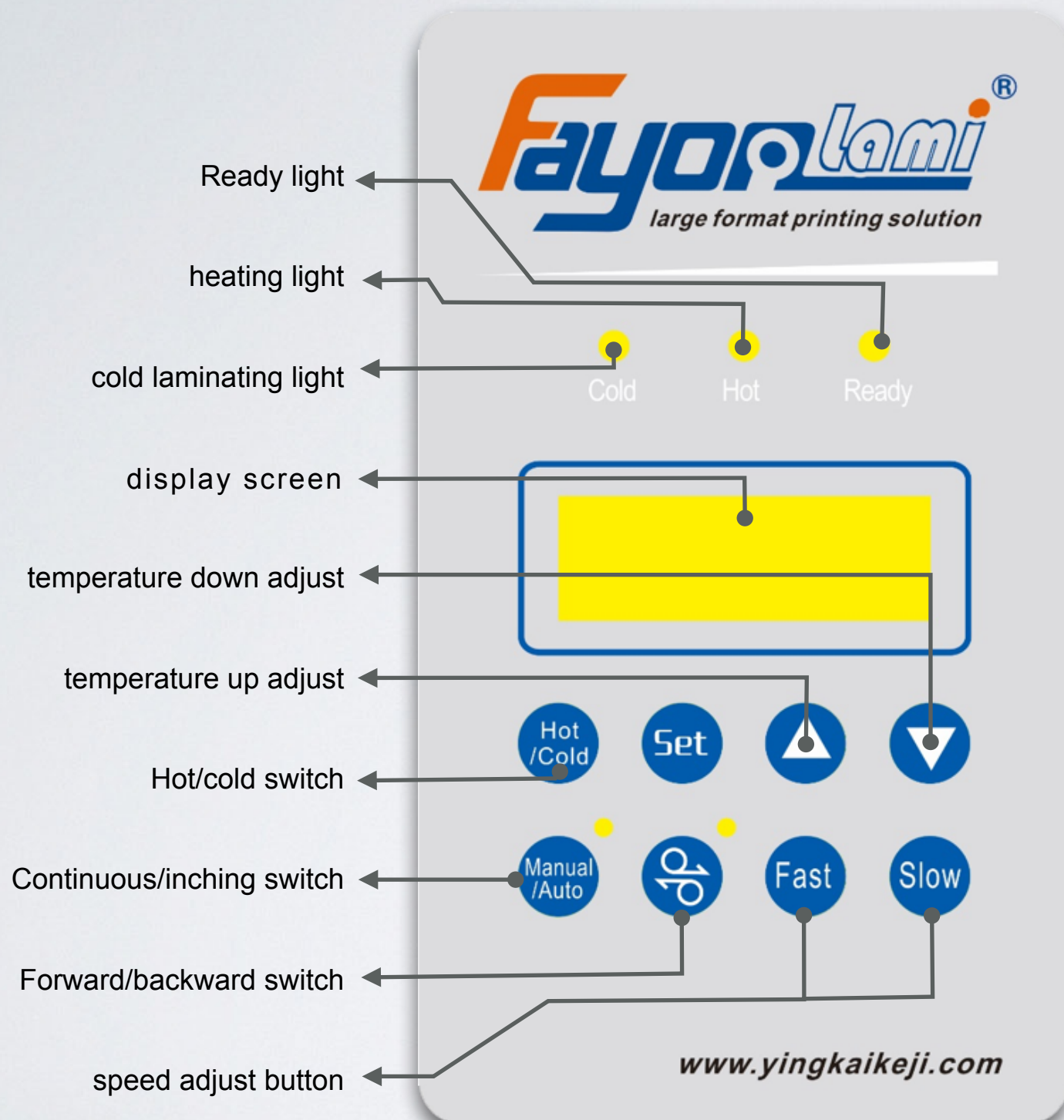


## CONTROL PANEL FUNCTION

- hot/ cold switch;
- setting temperature room~60°C;
- changing language(Chinese, English, Spanish);
- auto-continue/manual-jogging laminating model switch;
- laminating speed adjust(0~9levels)



# Scheme Map of Operation Panel Functions



## Ready light:

- ◆ lighting means the heating temperature has reached the setting

## Heating light:

- ◆ lighting means the machine is in the state of heating

## Cold laminating light:

- ◆ lighting means the machine is in the state of cold laminating model.

## Hot/cold switch:

- ◆ Control the switch of hot/cold model

## Continuous/inching switch:

- ◆ Two models for you, under Auto model, the machine can keep running by itself, in the speed of setting; under Manual model, the machine is controlled by the feet pedal.

## Forward/backward switch:

- ◆ Control the direction the machine moving, usually used in the Manual model to convenient the tidying.

## Speed adjust button:

- ◆ Just adjust the processing speed

## About setting:

Press the button **Set** for first time, we will enter the temperature setting environment, here we can set the temperature of laminating.

Press the button **Set** for second times, we will got the interface of inputting the code, this is by our factory, ignore it please.

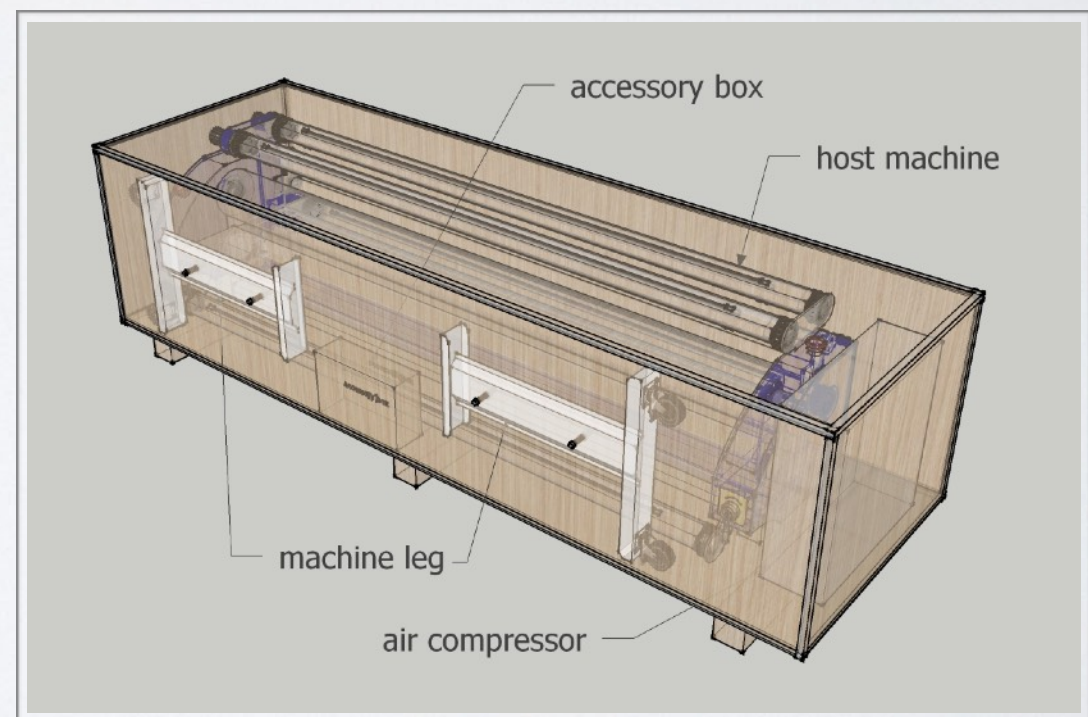
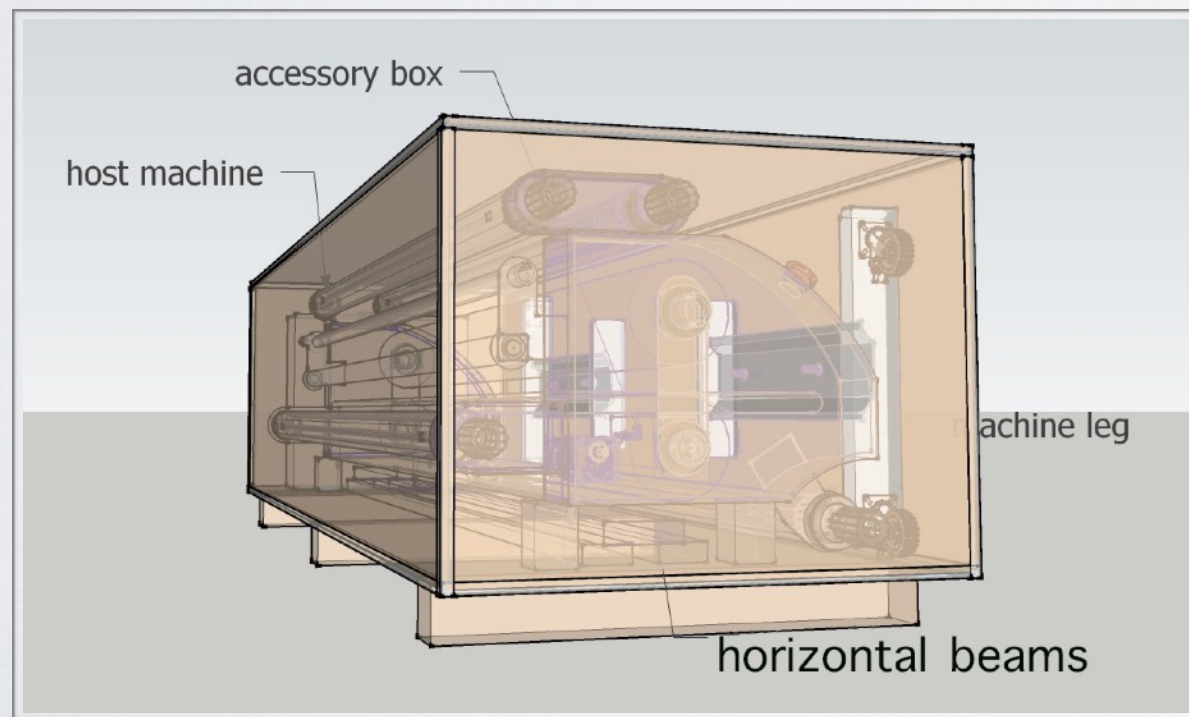
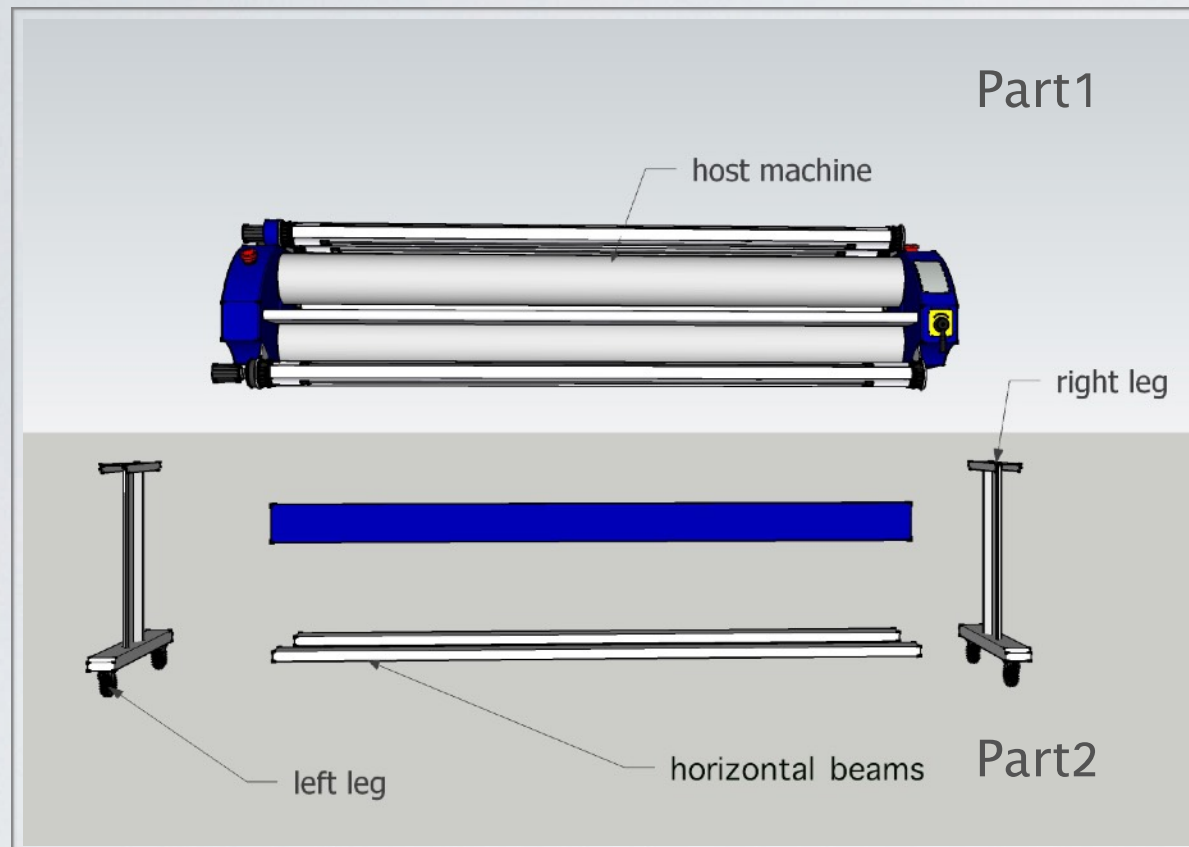
Press the button **Set** for third times, we will enter an interface to confirm your setting, just press **Set** again to end up your setting.

# Package instruction

When delivery, the whole machine has been disassembled into two parts:

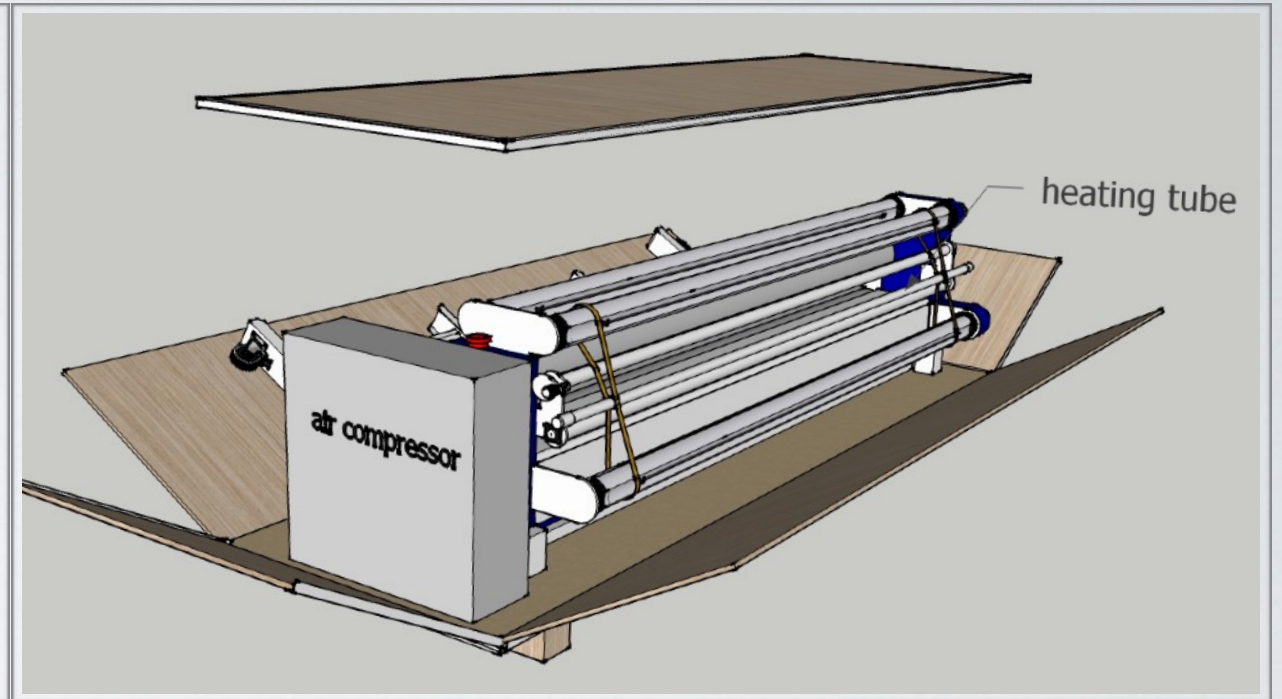
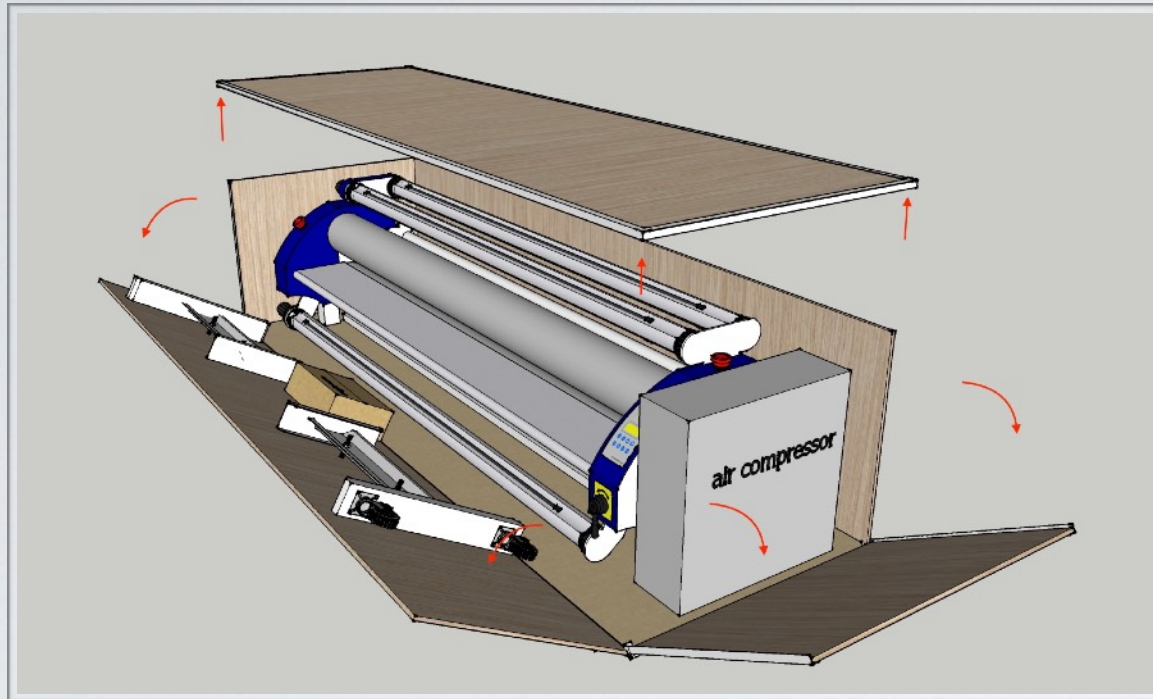
Part 1 is the host machine, which is the main part of machine;

Part 2 is the stand frame, which has been further disassembled to make it more saving space, just like the pictures showing.



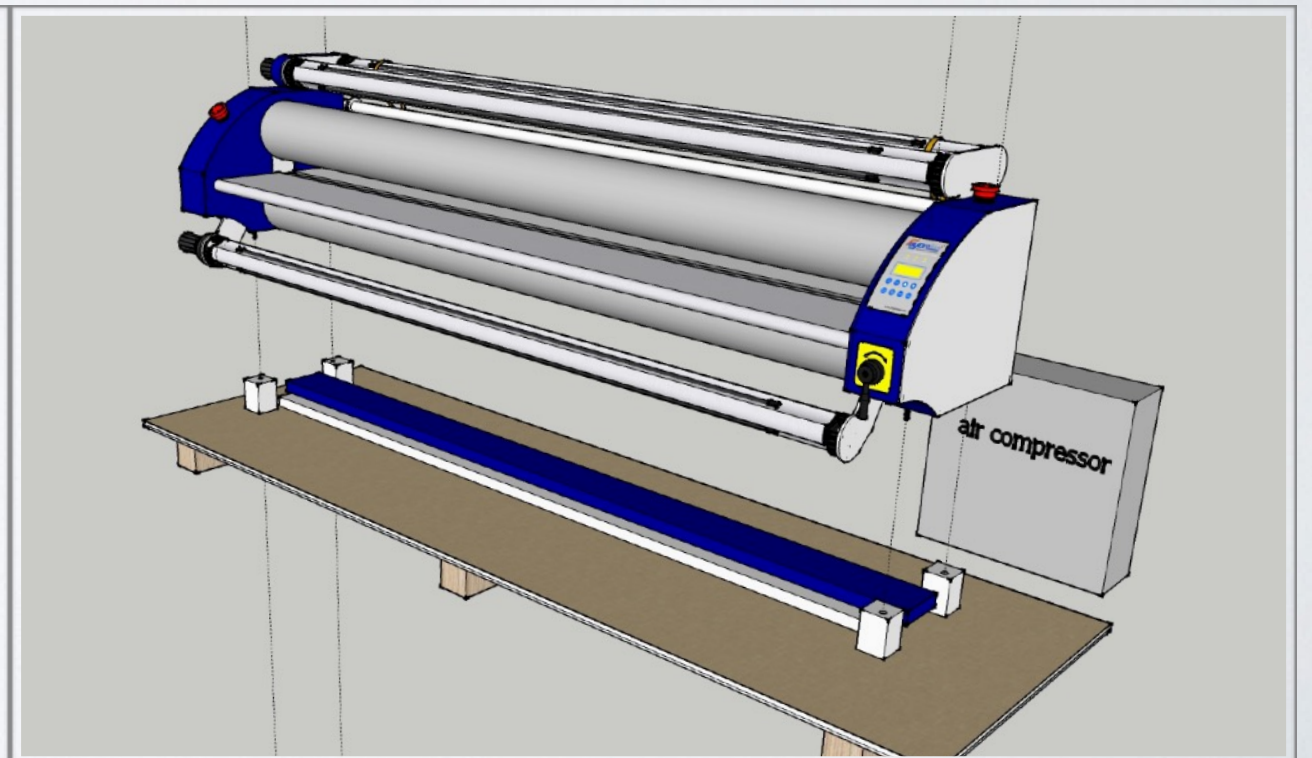
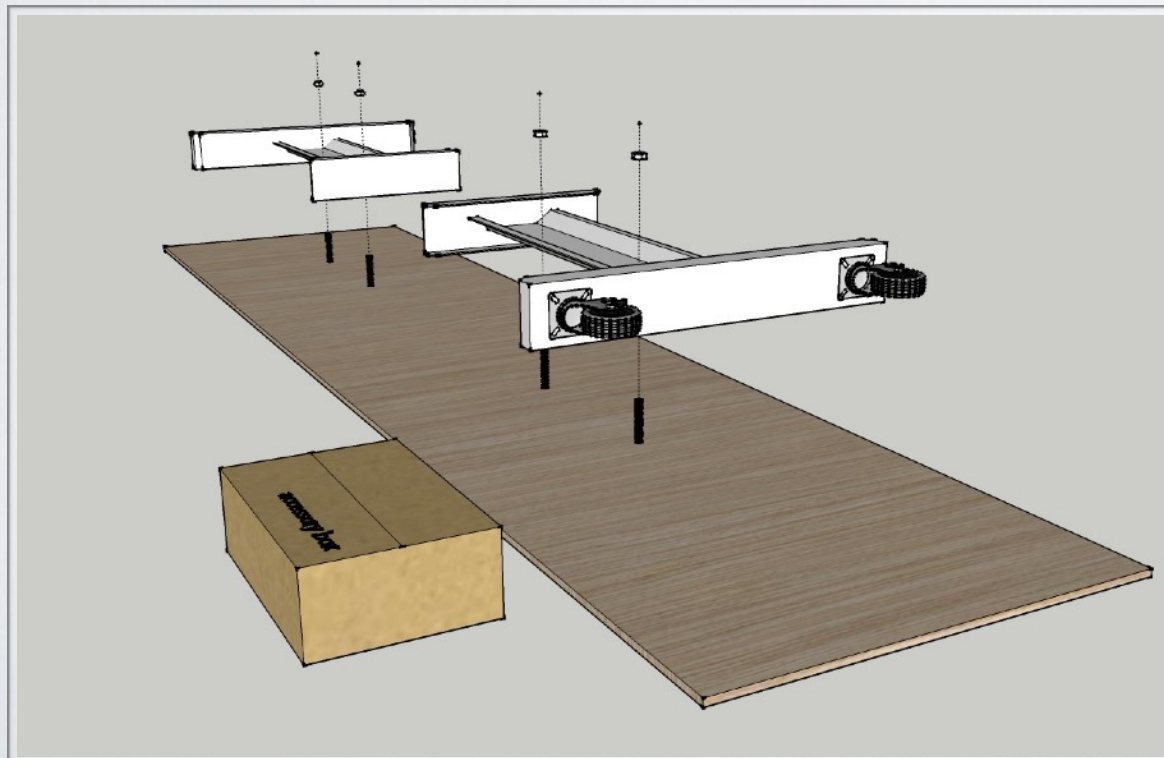


# Disassemble Package



Unlock the buckles with tools(hammer and flat screwdriver) to disassemble the package.

♦ Pay more attention to remove the case board behind the machine, because the heating tube is made of quartz, which is weak to be broken.





# Collect the spare parts

## Free the spare parts from the package

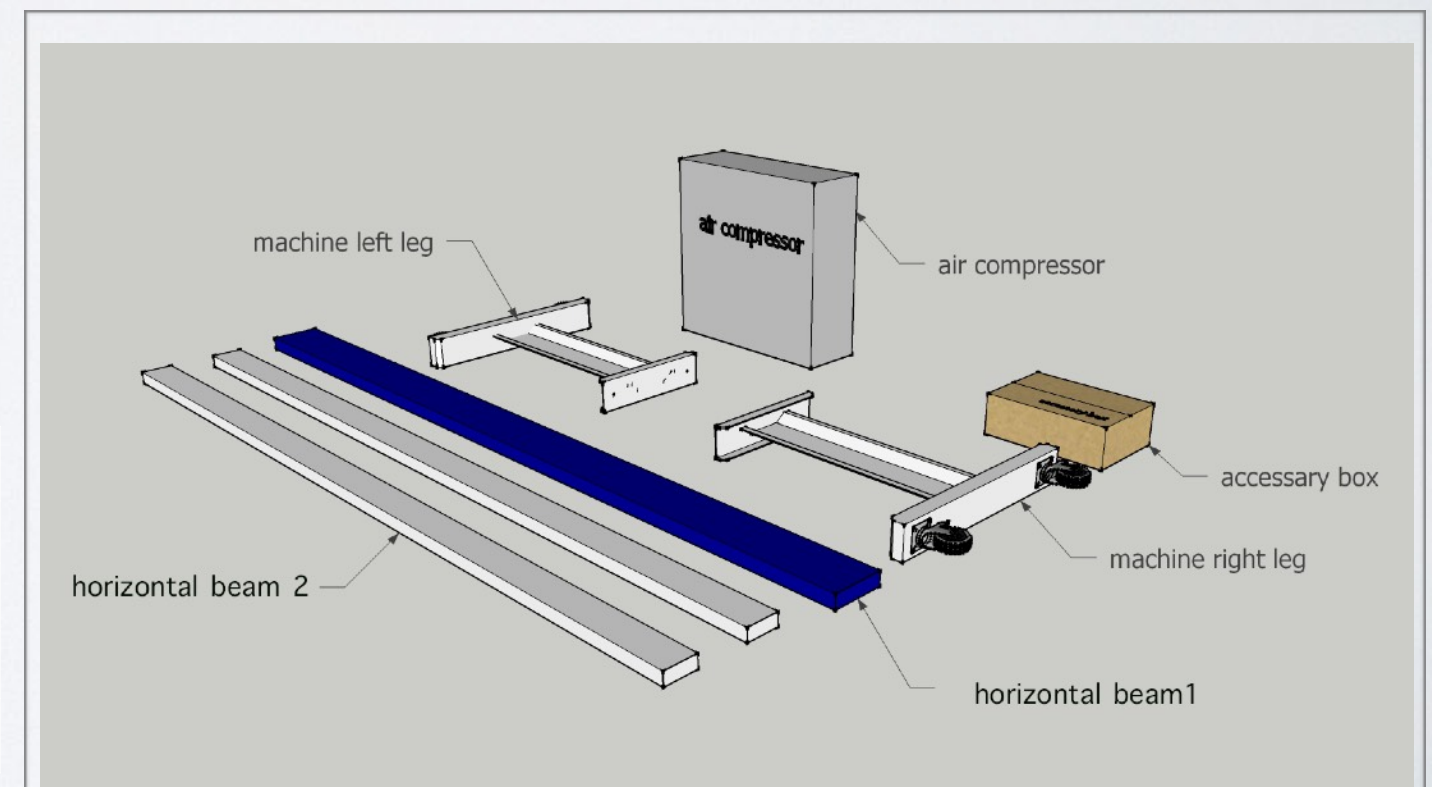
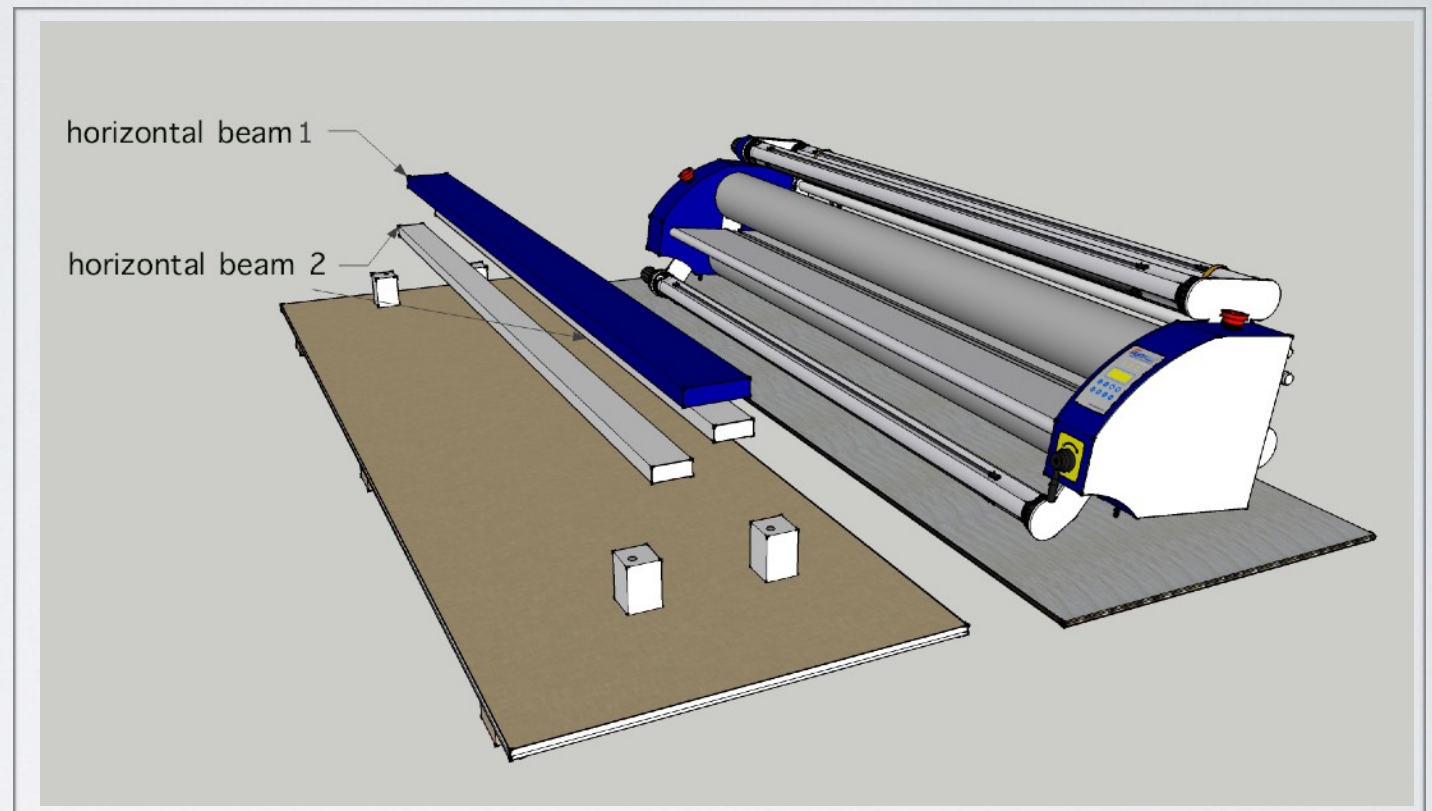
- ◆ Use the wrenches to release the machine side legs from the case board.
- ◆ Use the knife to cut off the fasten belt fixed the horizontal beams and the air compressor.
- ◆ Four men at least to lift machine from the bottom stand, then put it on the ground, better add one soft materials to protect the machine painting.
- ◆ Collect the beams from the bottom pallet, then put it on the ground.
- ◆ Open the accessory box to collect the assembly parts.

## Then you will get all spare parts as below:

<b>Air compressor</b>	1pc	<b>Machine right leg</b>	1pc
<b>Machine left leg</b>	1pc	<b>Horizontal beam 1</b>	1pc
<b>Accessory box</b>	1pc	<b>Horizontal beam 2</b>	2pcs

## Accessory list (packed in accessory box)

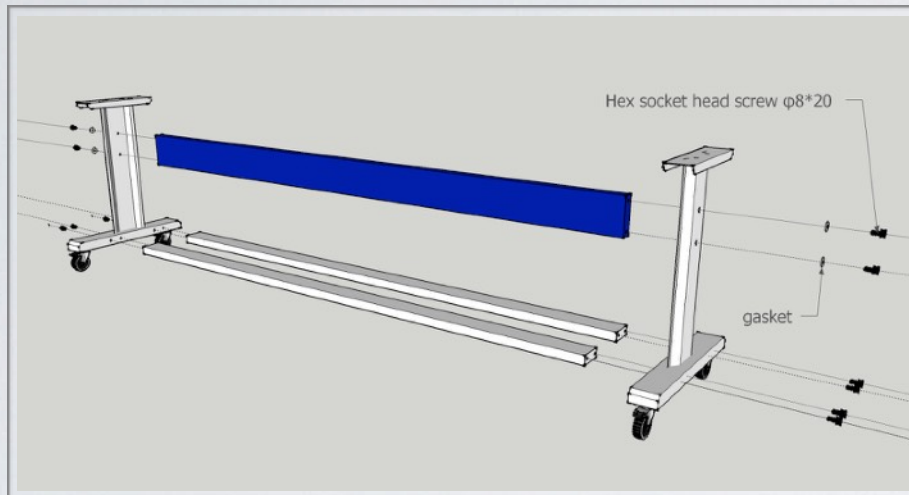
feet pedal	1pc	hex socket screw	12pcs
air tube	1m	Power cable	1pc
U-shape shell	2pcs	φ8 nuts	4pcs
small screw φ4	2pcs	wrench No.4/5/6/8	4pcs
oil water separator	1pc	flat gasket	4pcs





# Legs connecting beams assembly

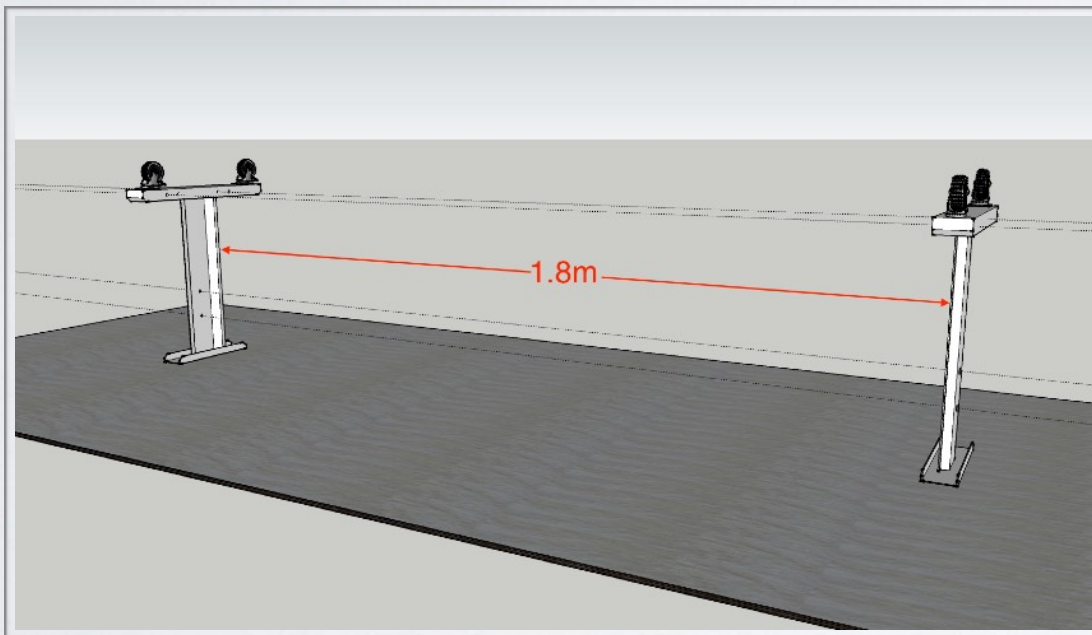
## Final assembly diagram



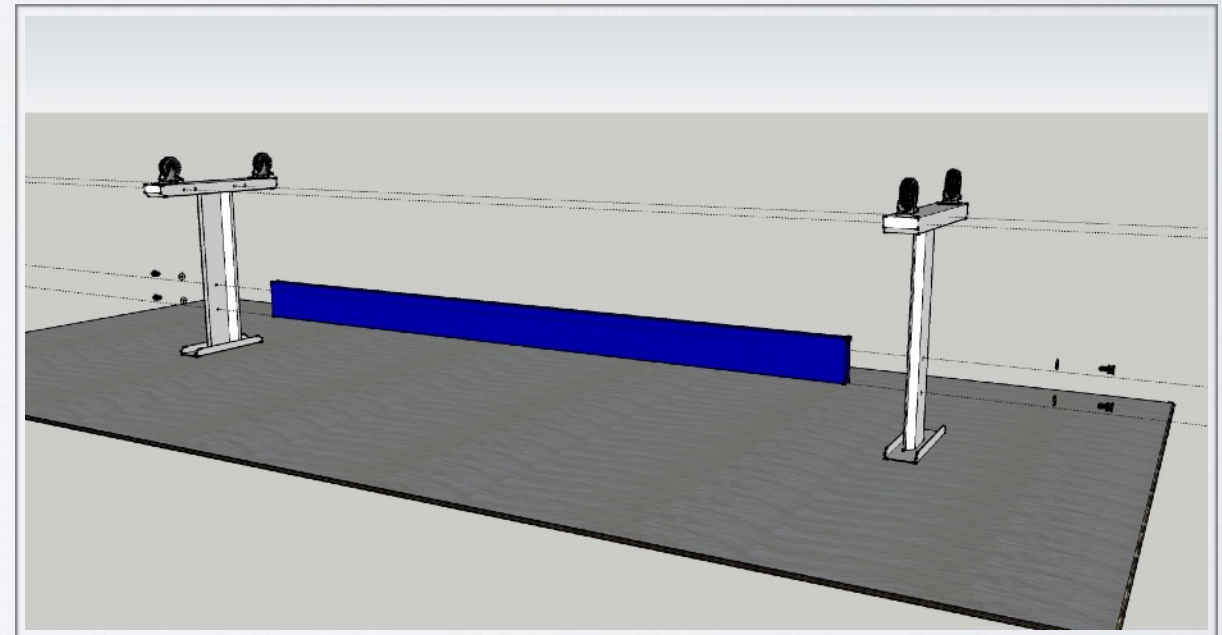
## Prepare

- ◆ No.6 wrench,  $\phi 8 \times 20$  hexagon socket head screw\*12
- ◆ Flat gasket \*4
- ◆ Horizontal beam\*3
- ◆ Double sides of leg\*2

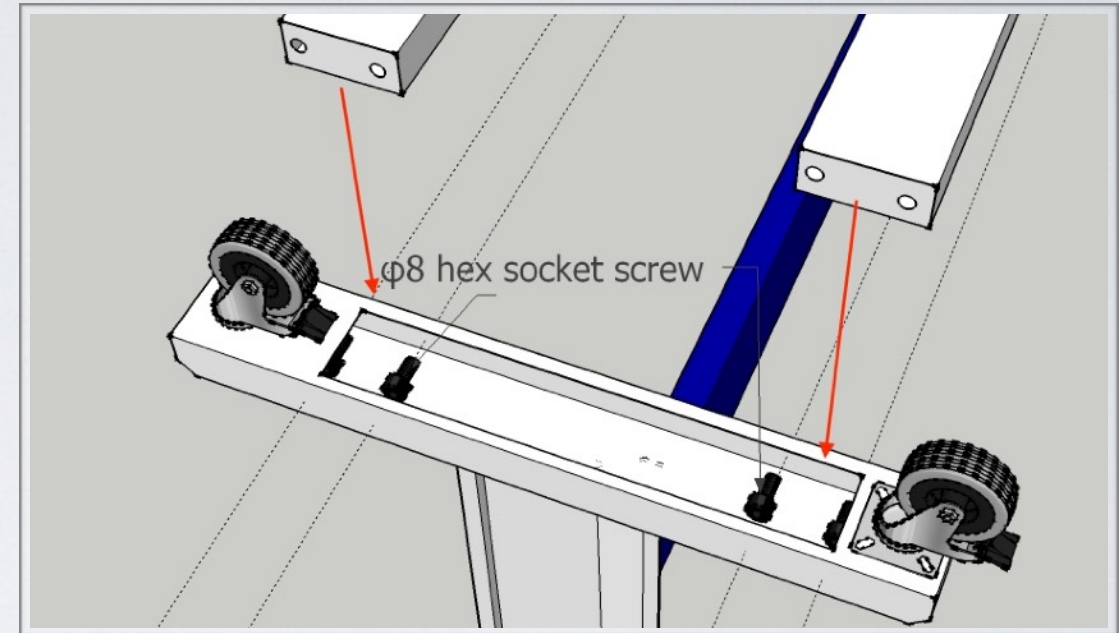
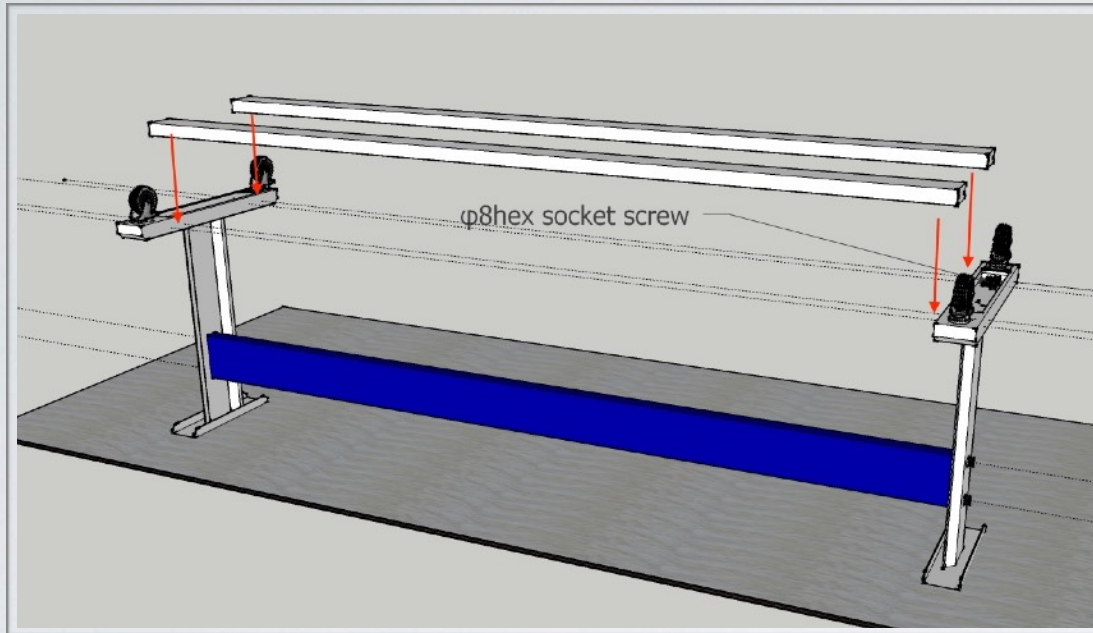
## Assembly steps:



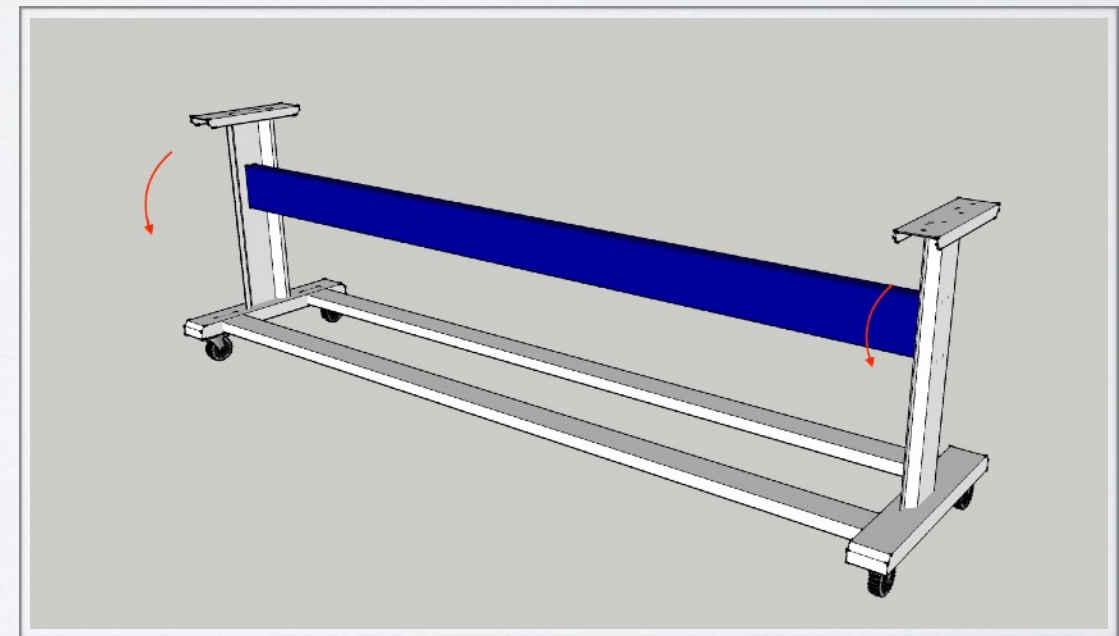
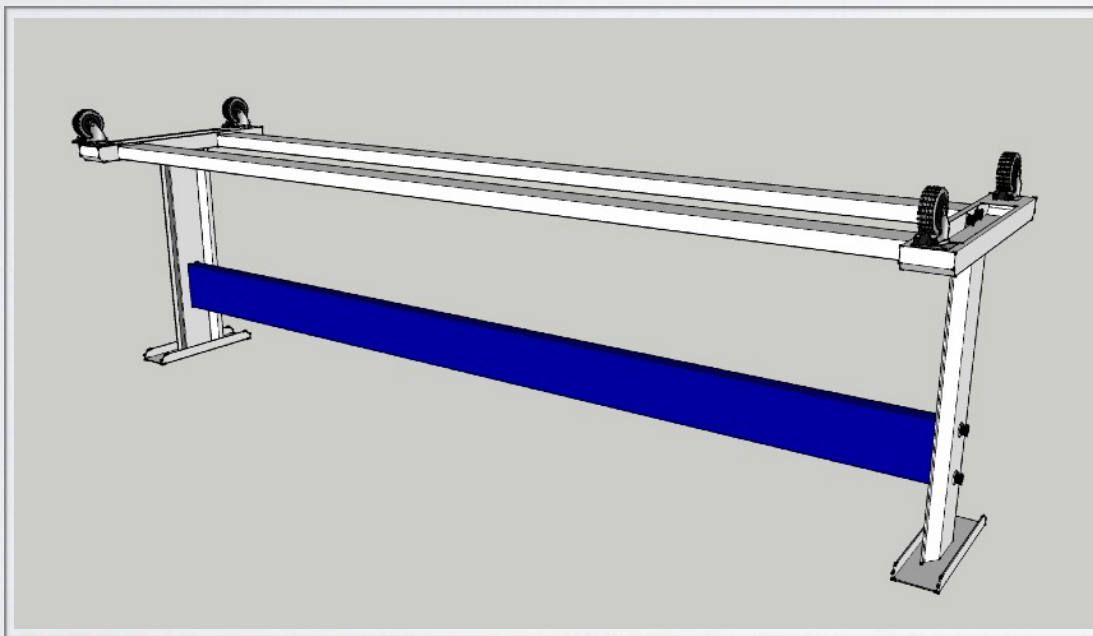
1. Put the legs upside down on the ground, better pave a soft materials under the bottom to protect the painting. The distance between the them should be around 1.8m.



2. Assembly the color blue beam first, please add gasket for the screw. Attention: don't tighten the screw right now.



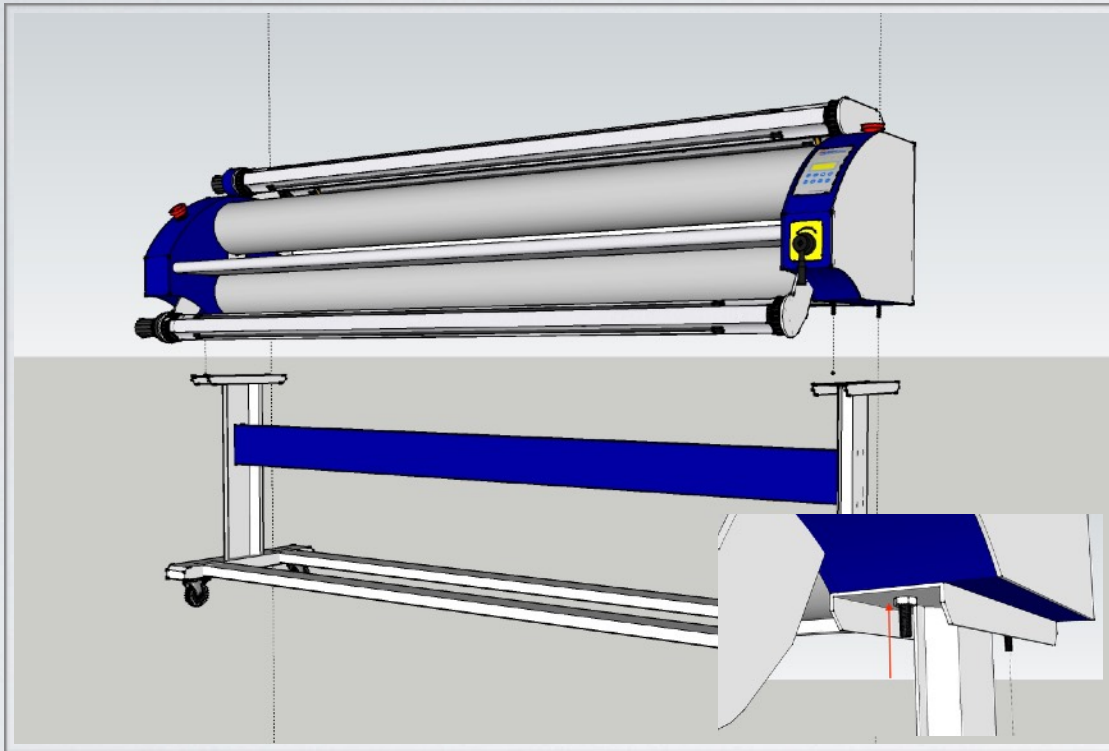
3. Assembly the 2 units of white beam. Because the small space inside the machine legs bottom slot, better correct screws with bare hand, it's more convenient and effectual.



4. Then tighten the screws. The assembly of connections beams finished.

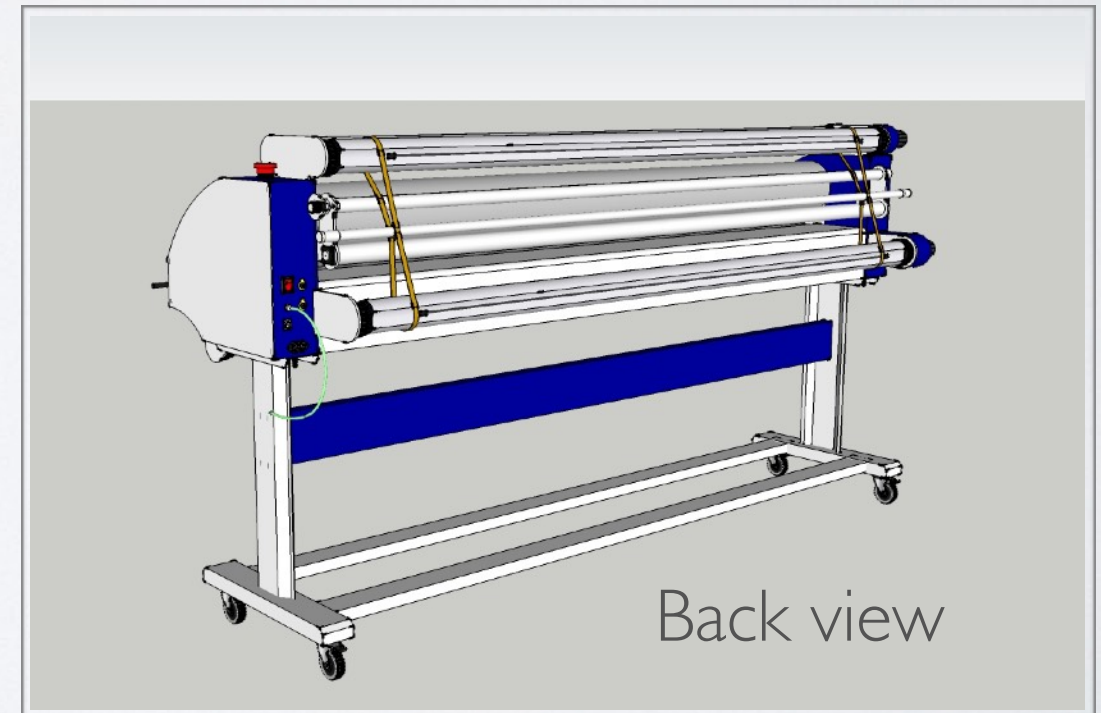
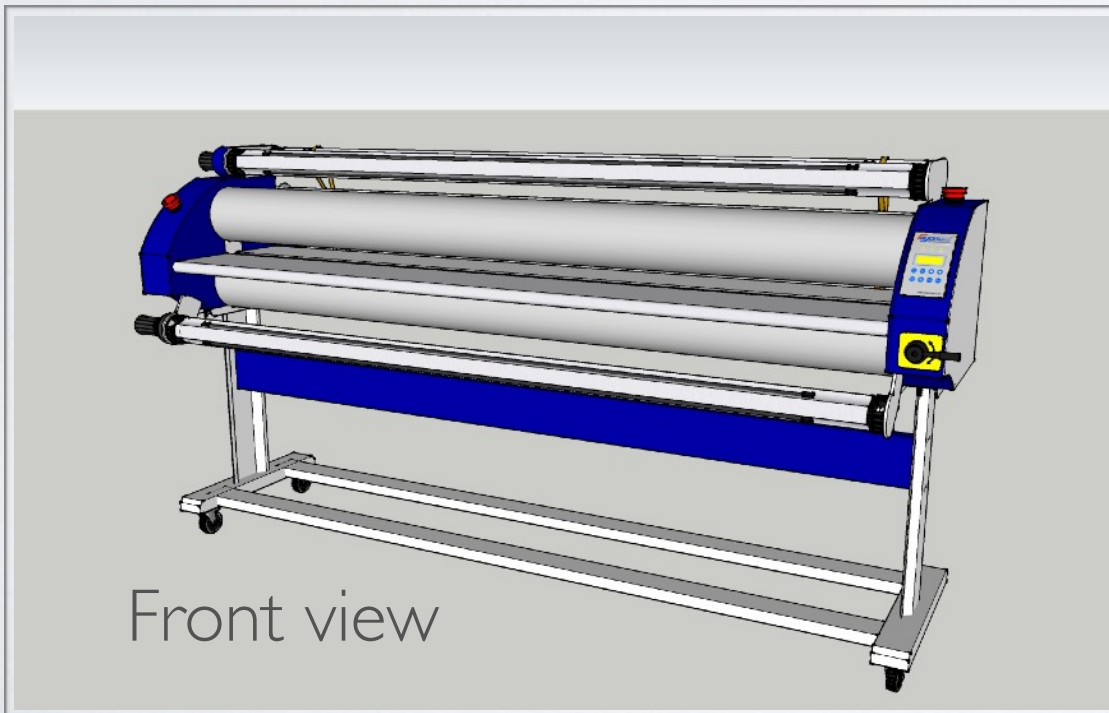


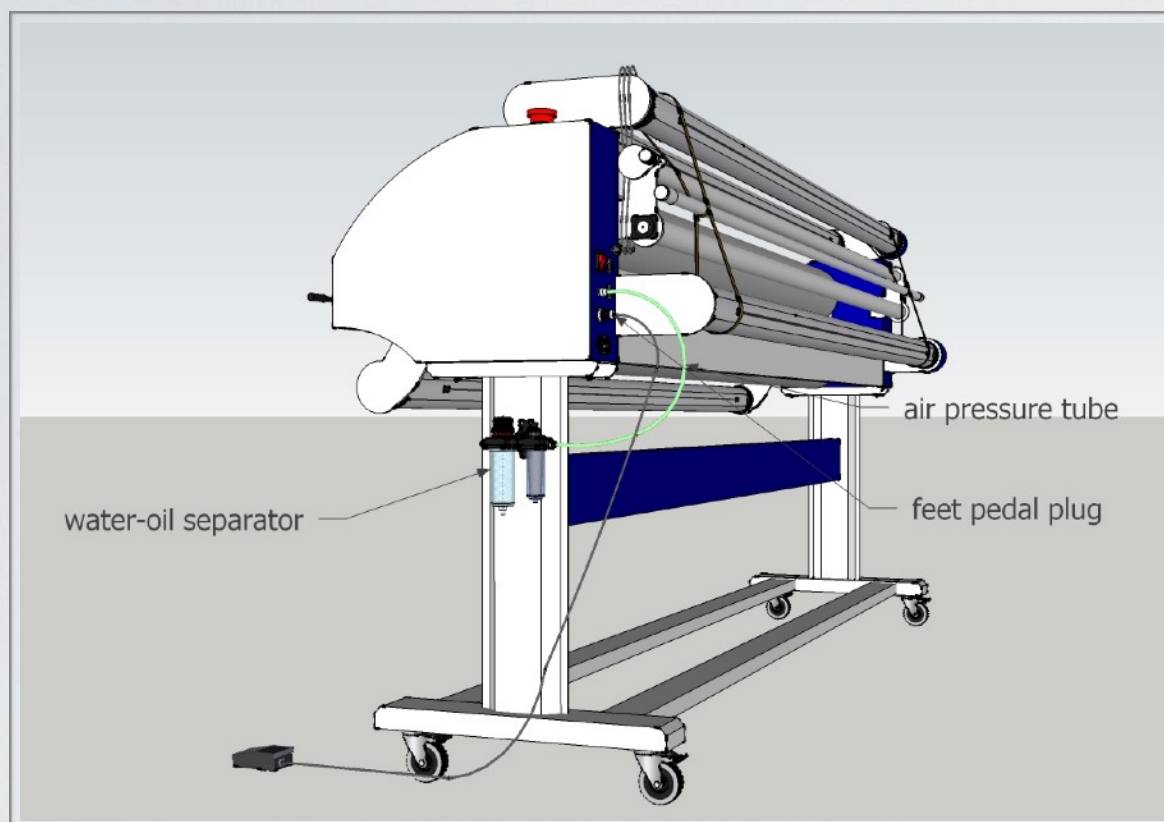
# Host machine part installation/affiliated fittings connection



## Host machine installation

- ◆ Host machine part should be carried by four men at least, then put it on the assembled rack.  
Pay more attention for the heating tube, which is very easy to be broken.
- ◆ When putting machine onto rack, please ensure the pile screws exactly align to the pile hole position.
- ◆ Take the nut  $\varphi 8$  out from the accessory box, twist to the pile screw to fix the machine onto the rack.

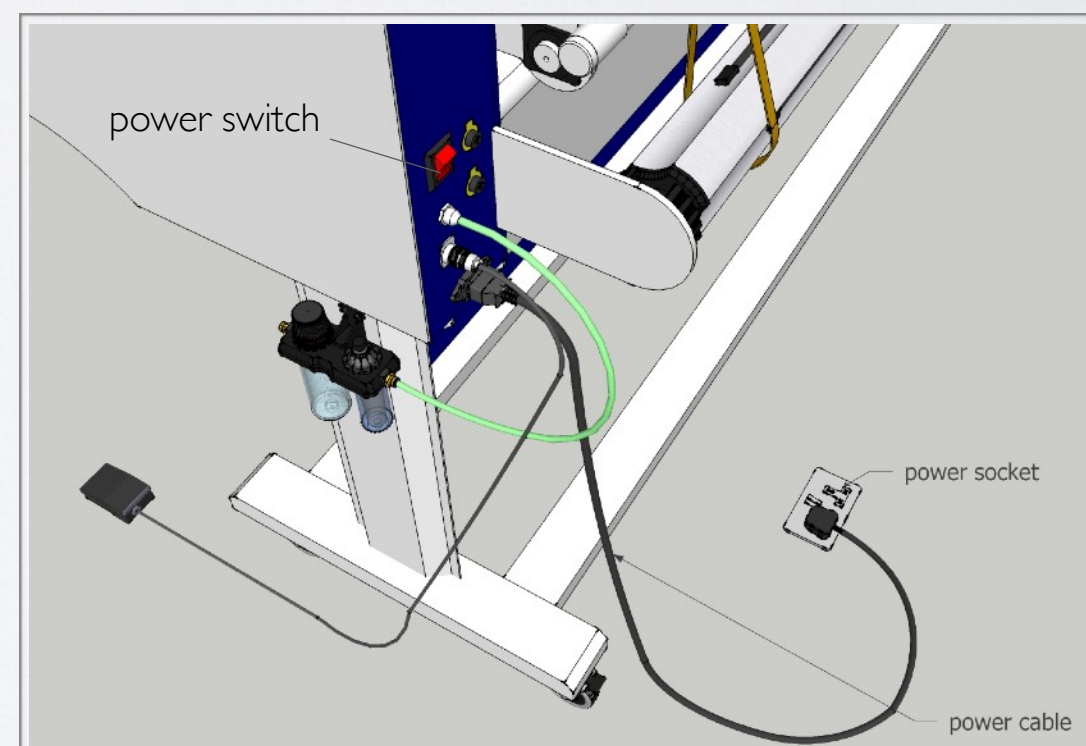
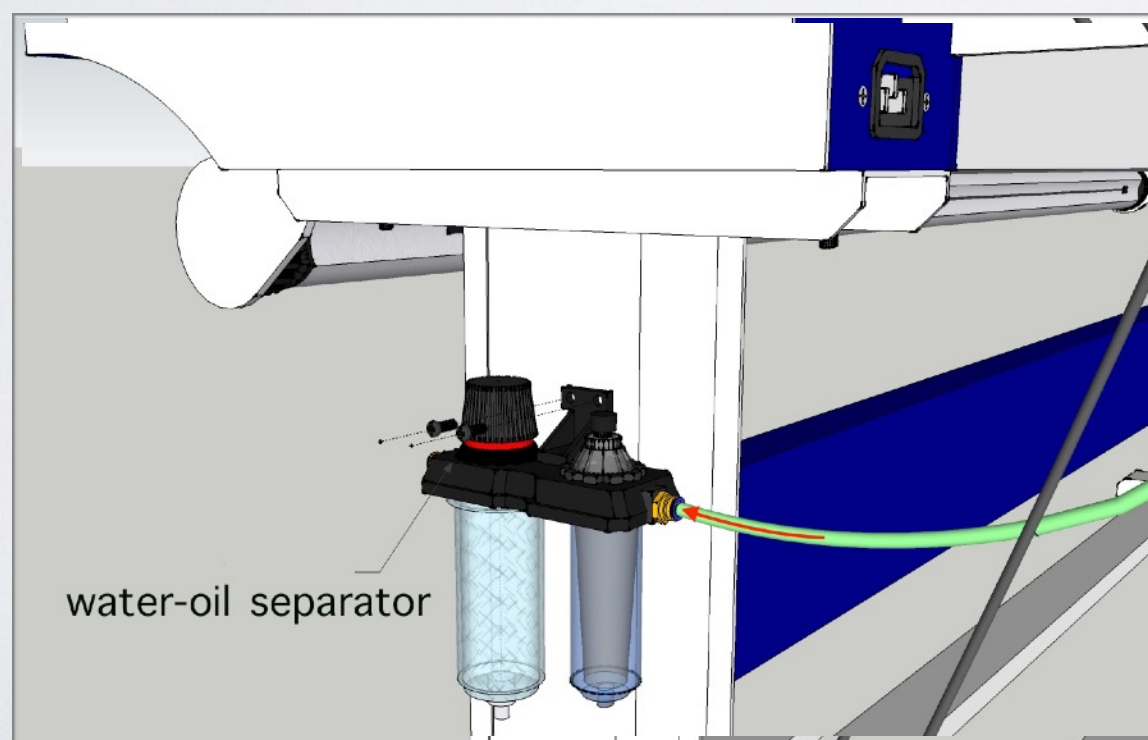




### **Affiliated fittings connection**

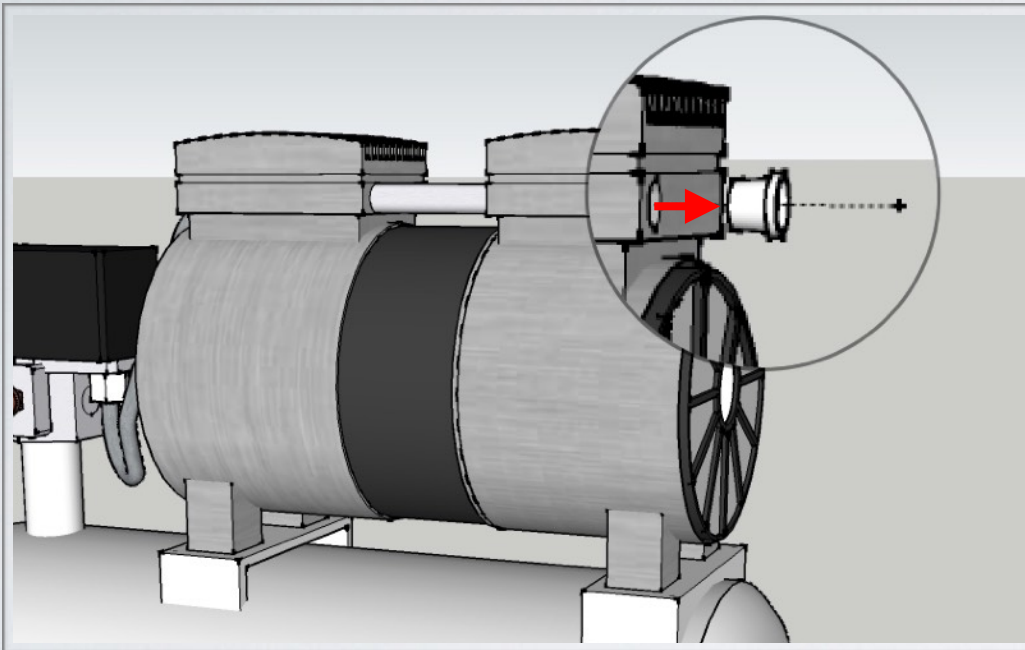
- ◆ Take the water-oil separator and its fixing screw out from the accessory box, then fix it onto the right legs.
- ◆ Plug the air pressure tube coming out from the side case into the separator, just like the picture showed.
- ◆ Link the feet pedal onto the interface behind the case.
- ◆ Plug the power cable into the hole behind the case, then plug the other end into the socket.

❖ **Please make sure the power switch state of power-off!**



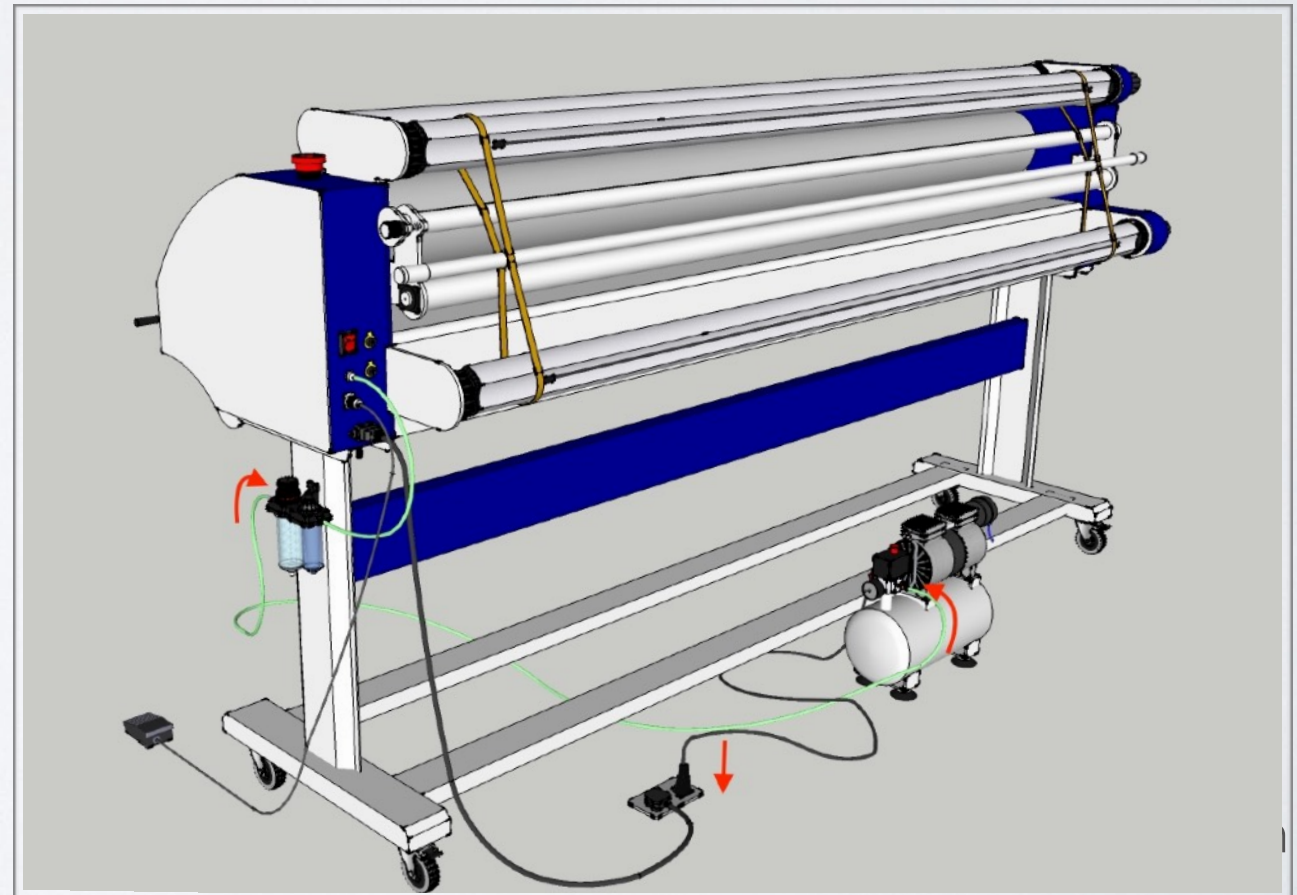
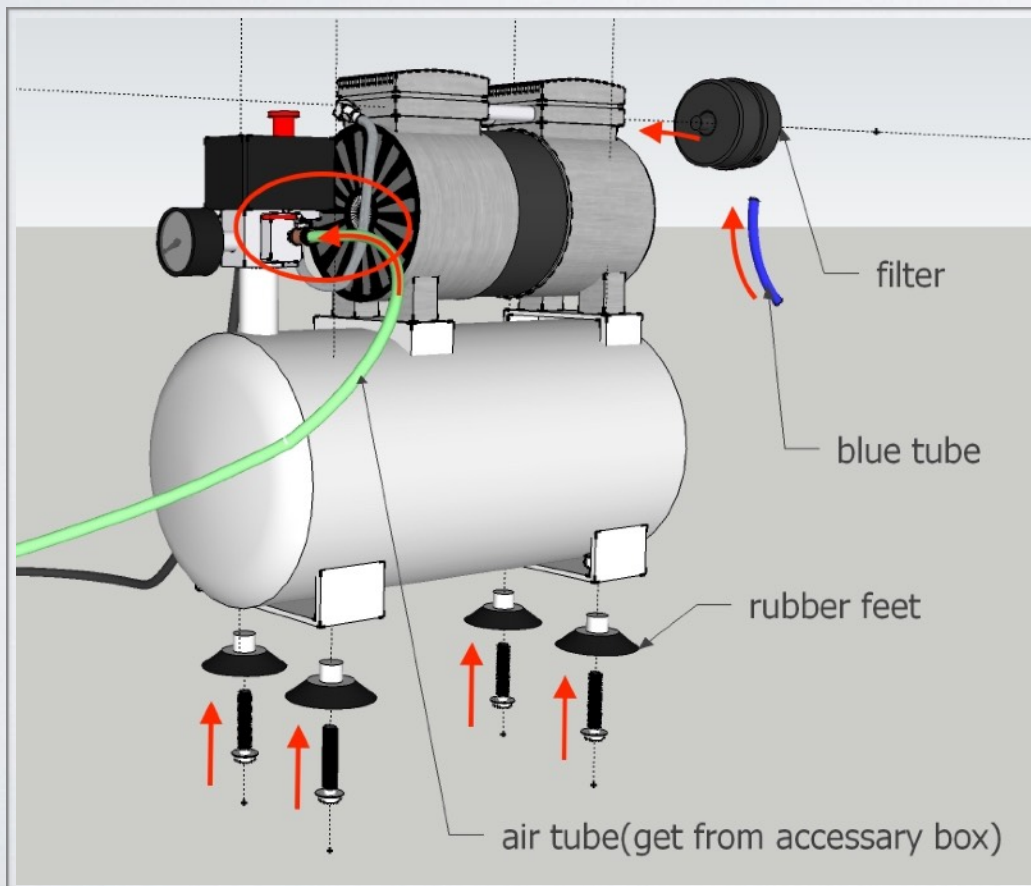


# Air compressor connection



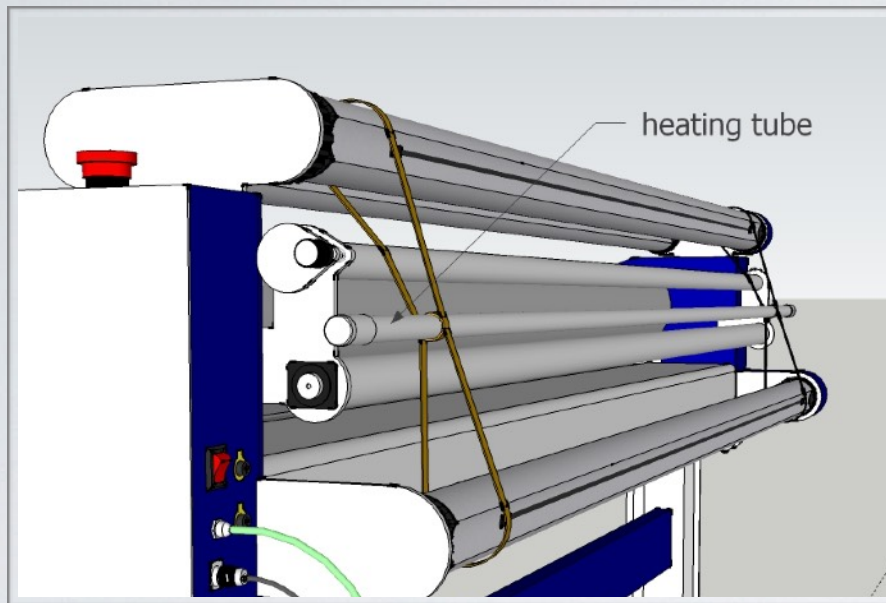
- ◆ Take out the air compressor from the package, install four units of rubber feet.
- ◆ **Take off the white PVC plug on the cooling fin block**, twist the black filter into the hole, then plug the blue tube into the hole at the bottom of the filter.
- ◆ Take out the air tube from the accessory box, then plug one end into the interface on the compressor, the other end into the interface on the water-oil separator on the machine leg.
- ◆ Plug the power cord into the socket.

**Air compressor connection finished!**



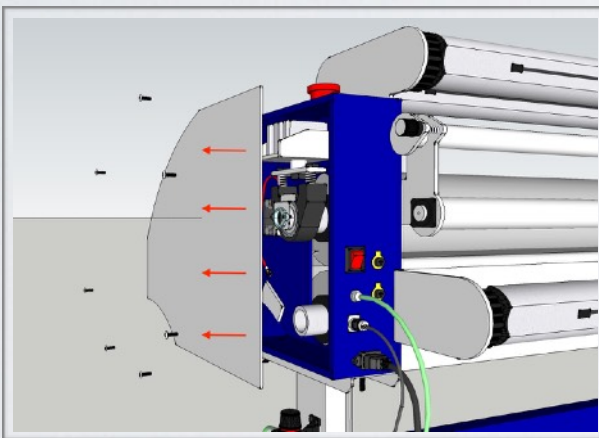


# Heating tube installation



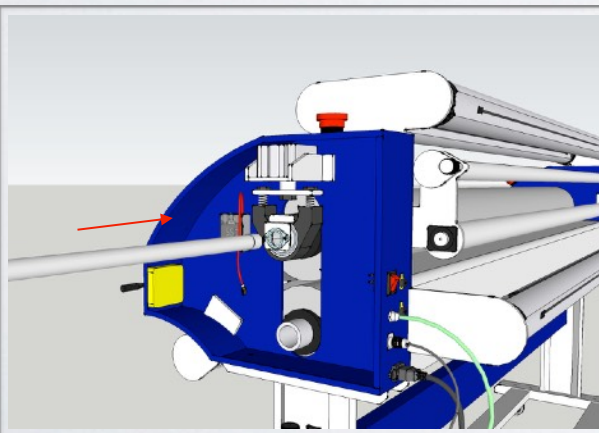
- ❖ Machine could work normally in case of uninstalling the heating tube, just lack of heating function.
- ❖ Because the heating tube is weak, when release it from the machine, better in two people and ensure the synchronous operation at double sides.
- ◆ Use a knife to cut off the rubber band, please hold the heating tube when operating, ensure the heating tube not knock on any part of machine.

## Step 1



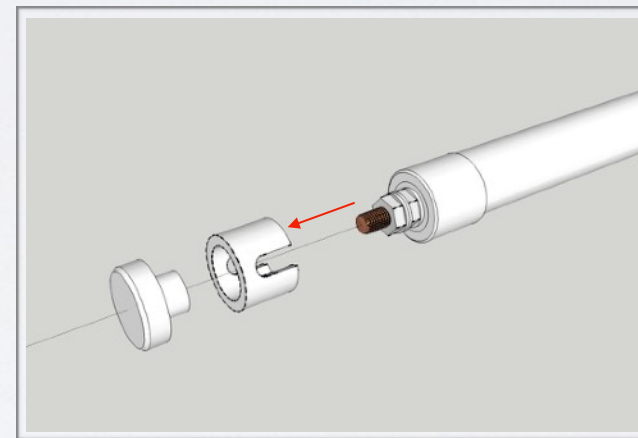
- ◆ Remove all the screws on double sides cover with hex socket wrench got from accessory box, then put the covers aside and keep them well.

## Step 3



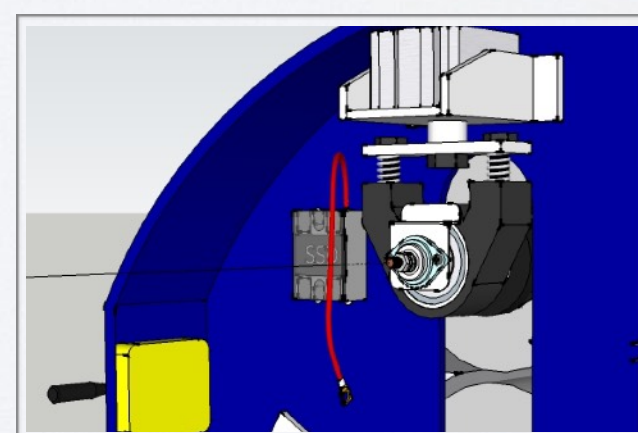
- ◆ Plug the heating tube into the center of the up roller, just like the picture showed, straightly through the roller.
- ❖ Holding the heating tube and touching the other end of roller maybe cost some time, please be patient and move gingerly and feel carefully.

## Step 2



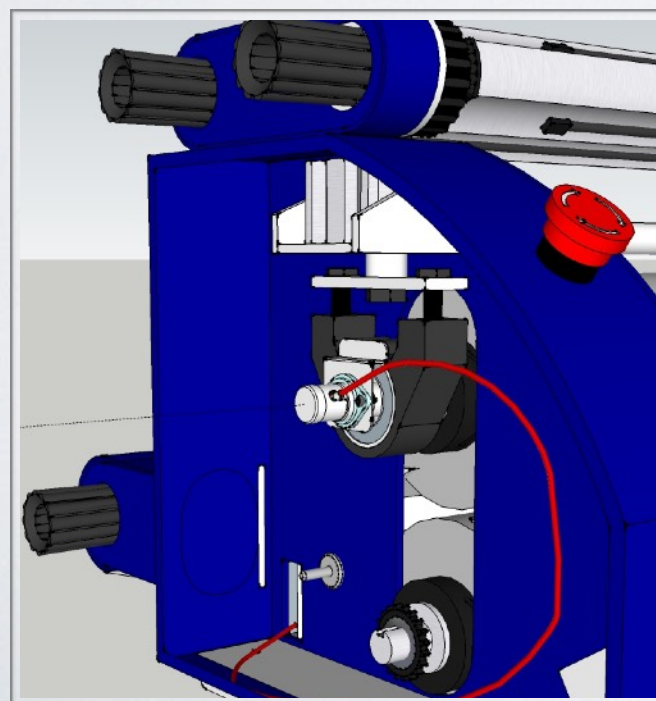
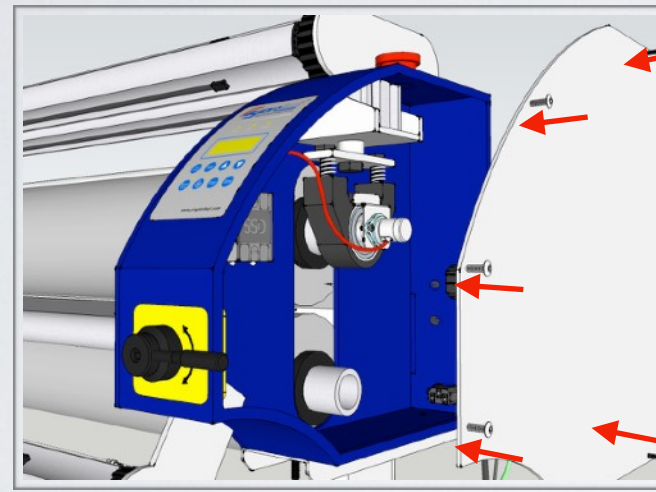
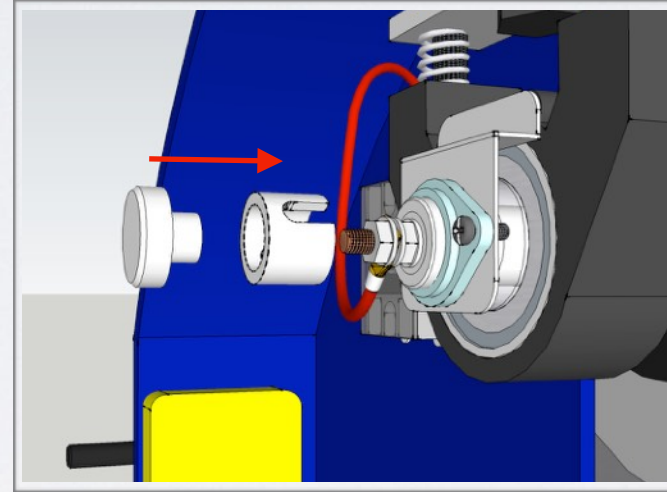
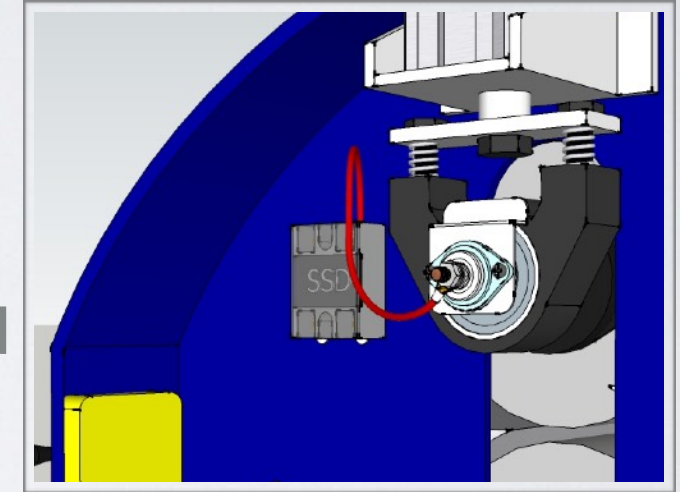
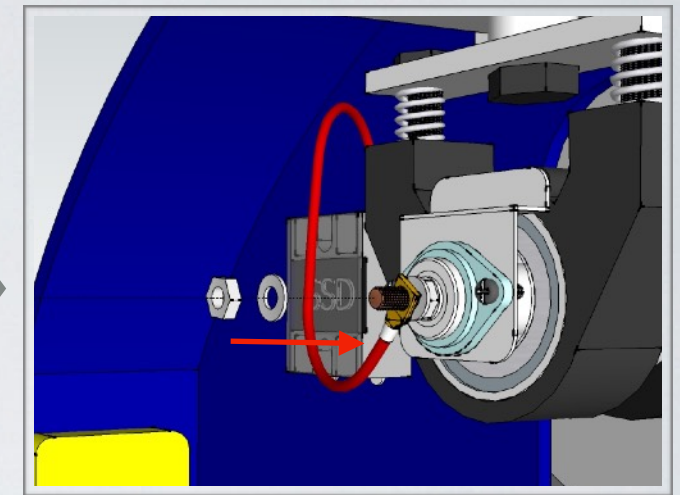
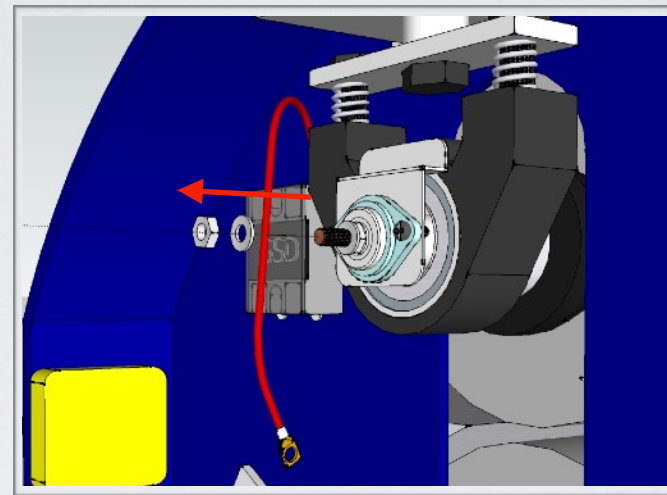
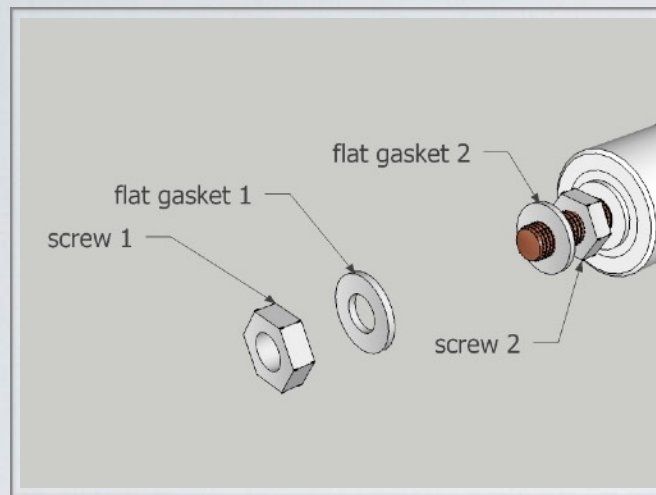
- ◆ Remove the white paper-base tape pasted on the end of the heating tube, then release the white ceramic cover by twisting it, then take off the ceramic part from the end together, just like the picture showed.

## Step 4



- ◆ After plugging in the heating tube will be like the picture showed.





### Step 5

- ◆ Using the open-end wrench to twist off the screw 1 and flat gasket 1 from the heating tube end, then put the red heating wire terminal on the screw of heating tube(the wire marked 'hot A') , just like the picture showing. Then put the flat gasket back press on the wire terminal, and twist back the screw 1, use the two open-end wrench to tighten screw 1 and screw 2 in different direction.
- ◆ Put the ceramic part back onto the heating tube screw, then twist back the the white ceramic cover.
- ◆ Then same operation in the other end of the heating tube.
- ◆ Then screw the double sides machine case cover back.

**Heating tube installation finished!**

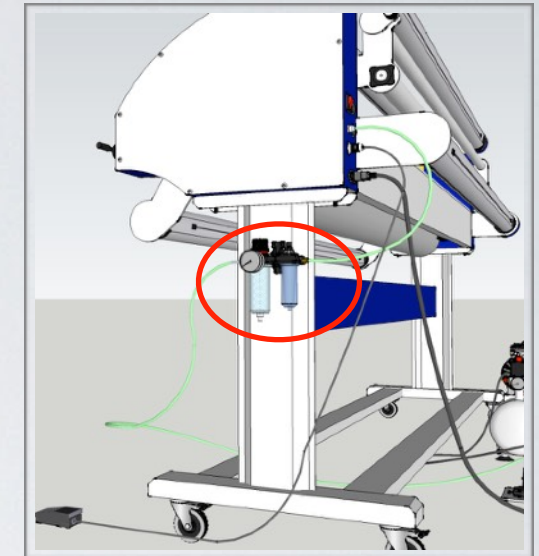
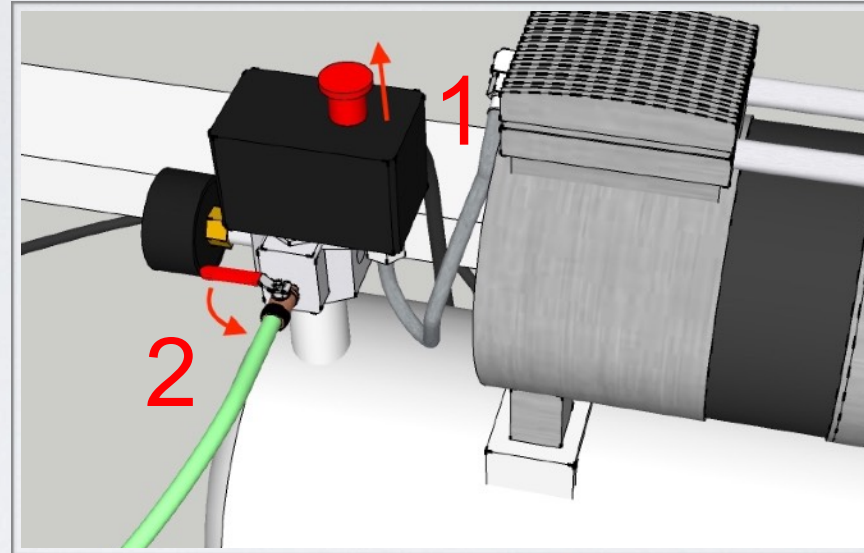


# How to use the laminator?

## Step 1. Power on the air compressor

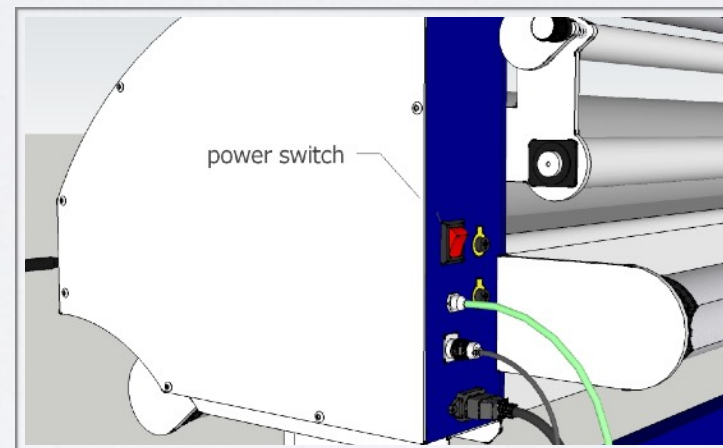
1. Pull up the red knob on the top of air compressor to start the pump. You will hear its little sound of working, after two minutes, pressurized process will stop.
2. Then turn the pneumatic valve along the direction of the green air tube.

❖ Check the water-oil separator on the right leg of machine, the dial reading will be around 0.4Mpa normally.



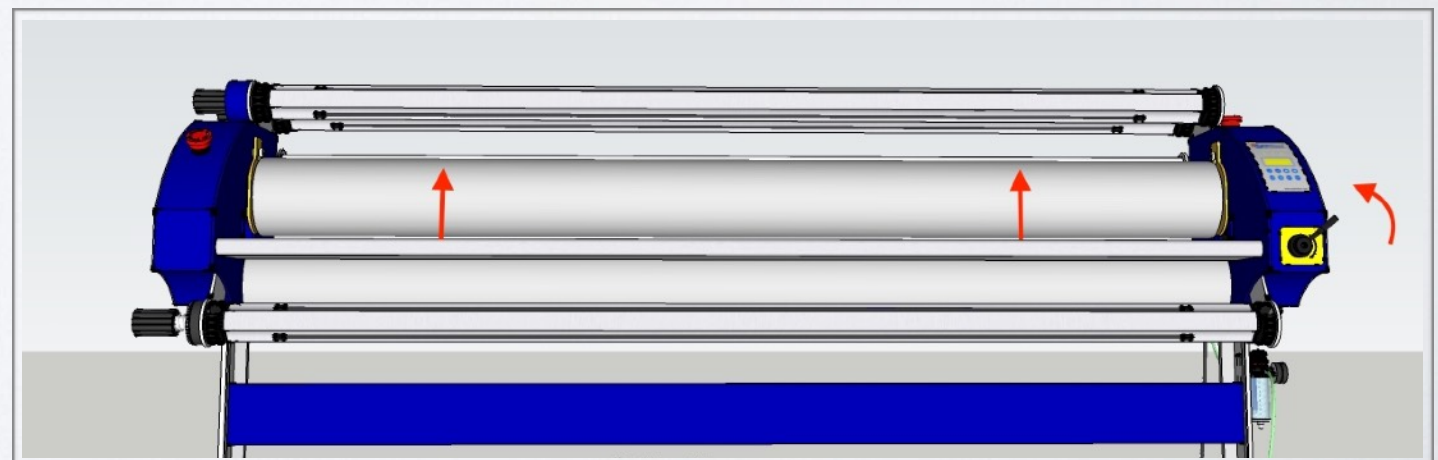
## Step 2. Power on the laminator

- ❖ Push the rocker switch on the back of the machine case, from '0' to 'I'. Then you will see the control panel screen lighting up, showing the greeting word: welcome to use



- ❖ If the screen failed to light up, please check if the emergency stop on both sides is breaking.

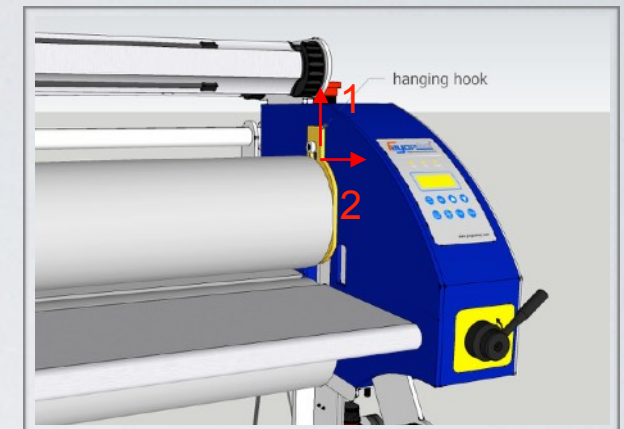
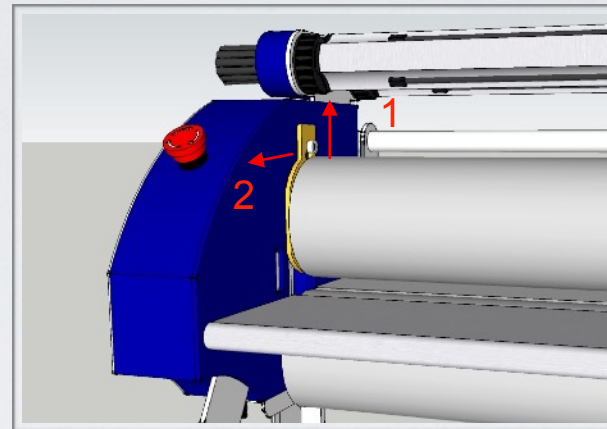
- ❖ Turn the Pneumatic valve to 'up' position, the up roller will be lifted up.





### Step 3. Take off the up-roller hanging hooks

- ➔ Take off the yellow up-roller hanging hooks on double sides, this parts designed to protect the rollers in long-term transport by keeping up&down rollers losing touching.
- ➔ The hooks could also avoid the roller deformation occurred when machine idled long time.



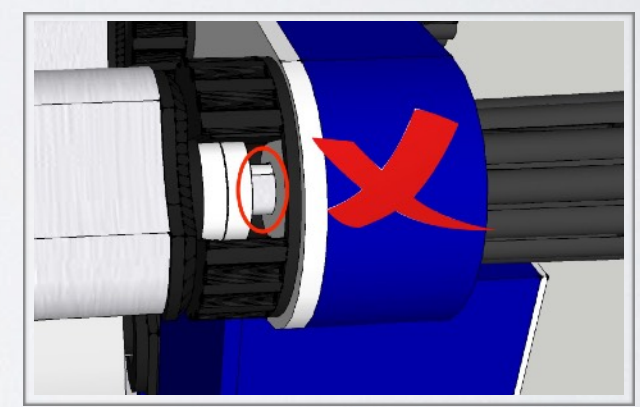
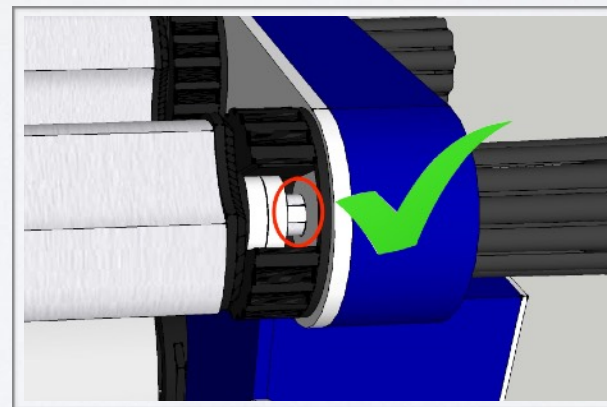
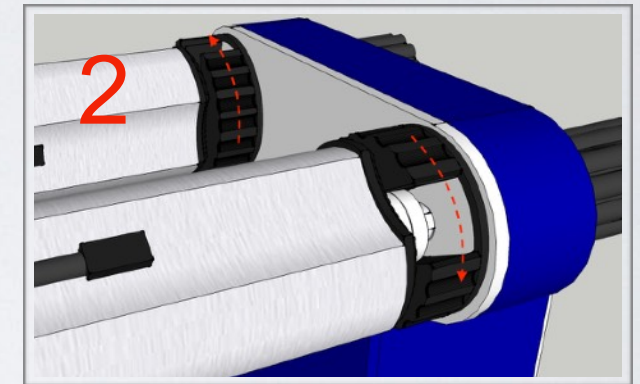
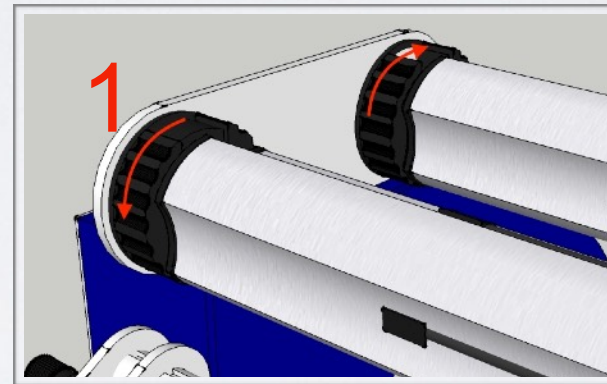
### The use of the bracket shell

- ➔ Turn the black rotary bracket shell as indicated by arrows, make the bracket open. Then pull out the media rod from the slot.

❖ Please be attention:

*Ensure the connection slot opening of rod end towards the opening of the bracket shell, this habit will be helpful when you put the media rod back, or you need to hold the heavy loading media rod to find the right angle of the slot.*

*Better pull out the both ends of media rod at the same time, especially the media loading heavy, or the bracket maybe broken if accidents happened.*

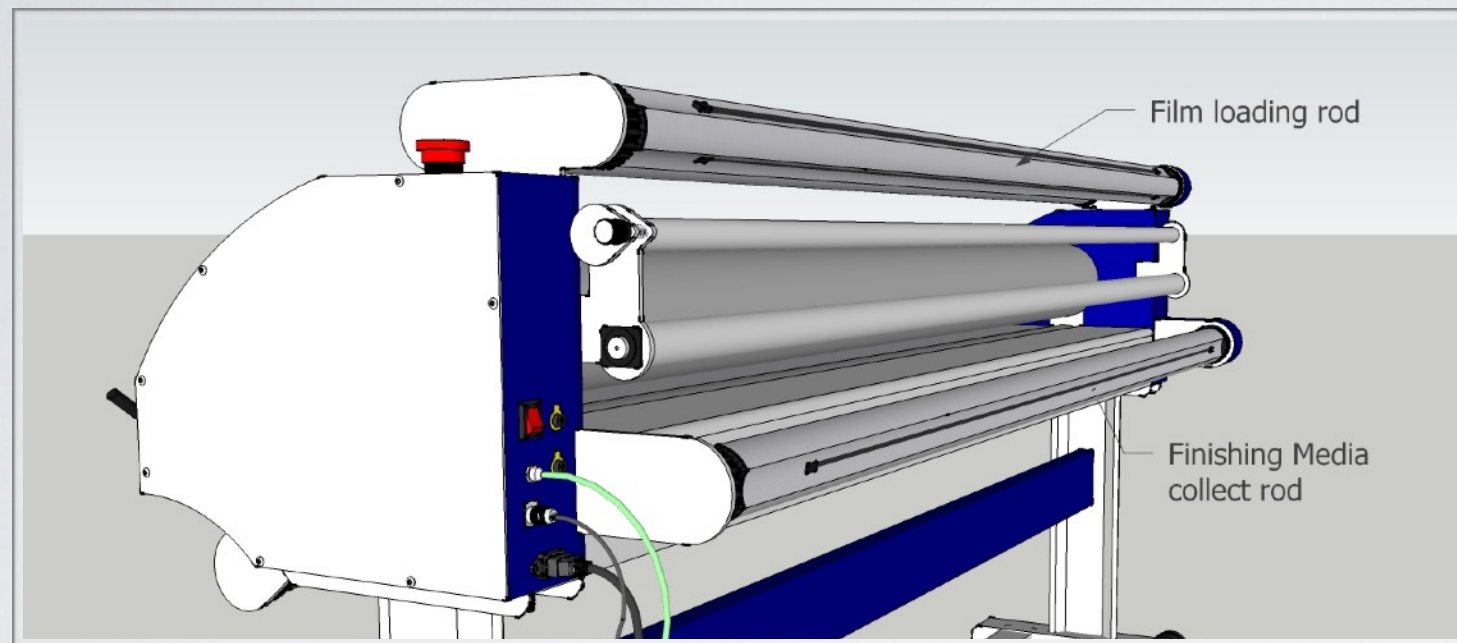


- ➔ After putting the media rod back in the the bracket, please turn the bracket shell back to lock the rod. This step is important!

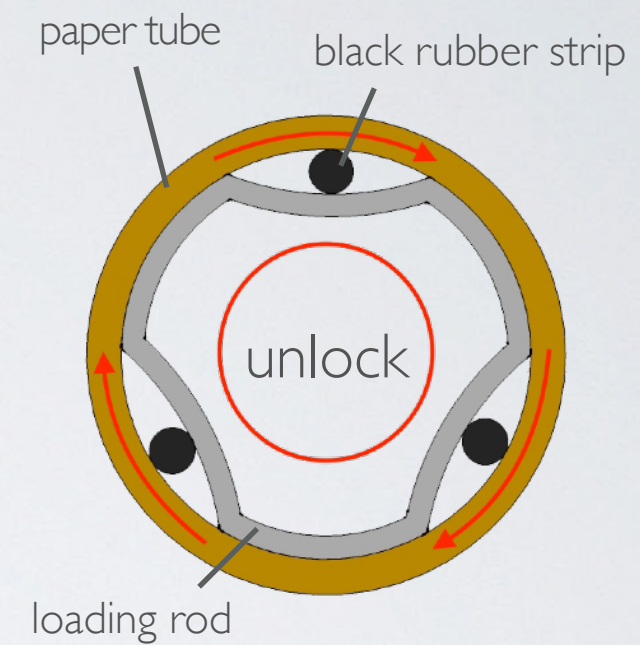


## Step 4. Loading materials

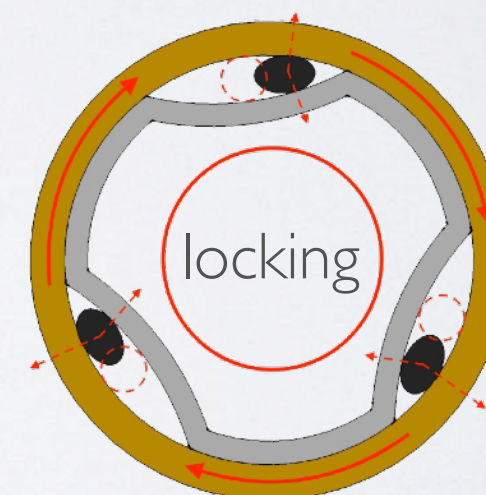
### → Introduction of loading rod



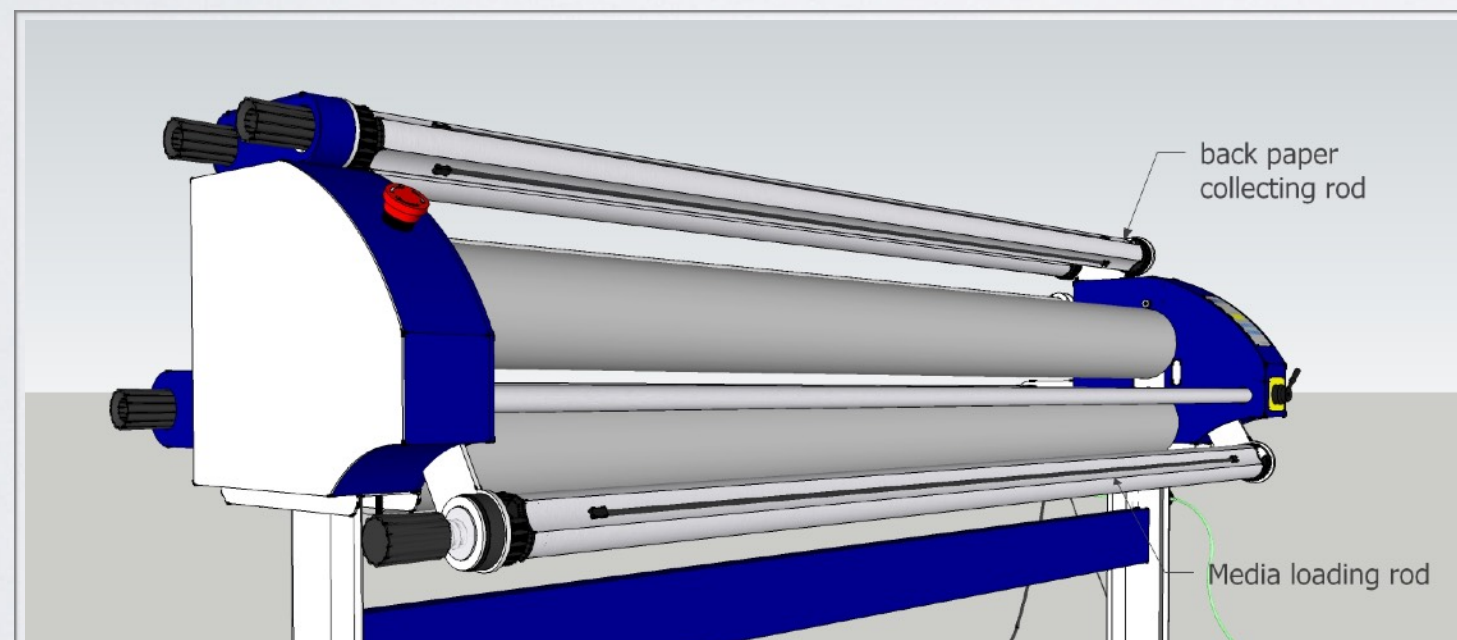
### → Loading rod self-lock structure working schematic diagram



**no relative rotation**



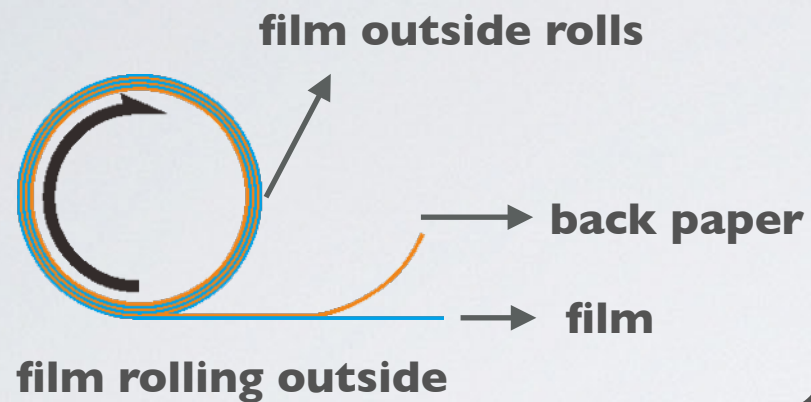
**after relative rotation**



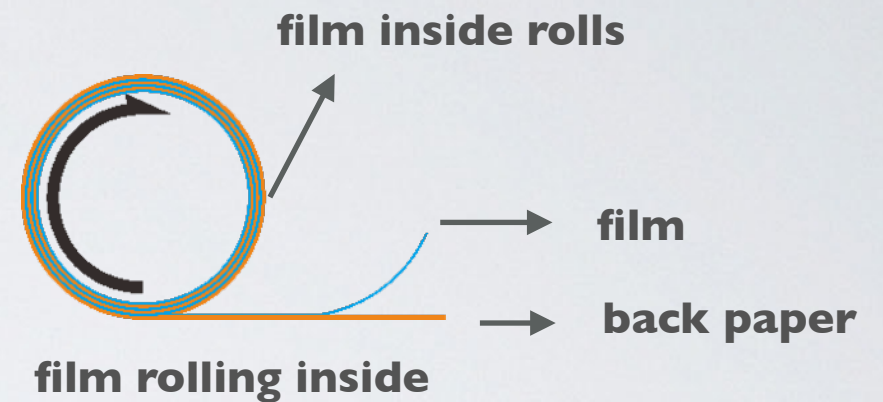


## Working schematic diagram

On the market, there are two rolling methods for film rolls:

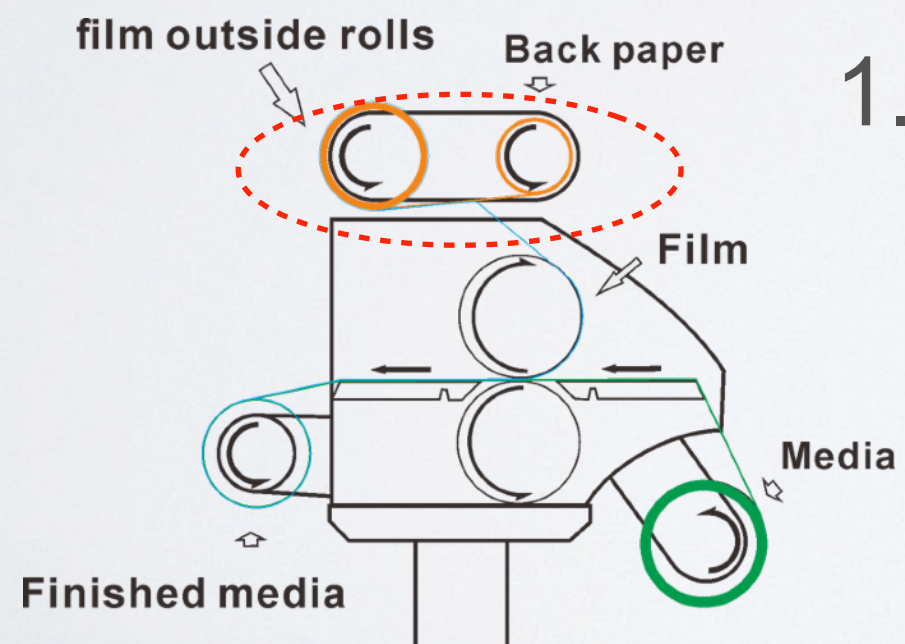


1.

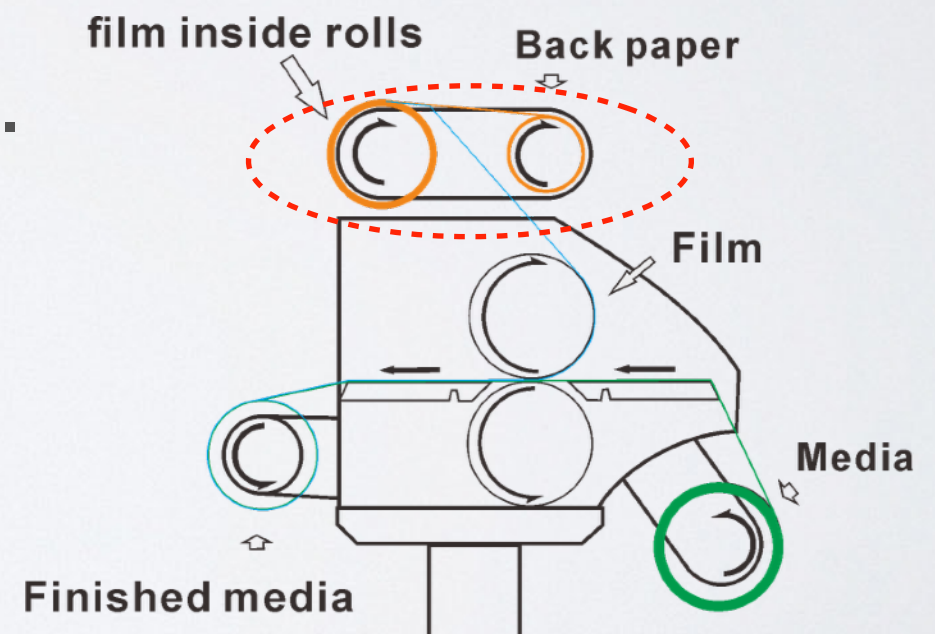


2.

Accordingly, there should be two film installing methods as below, please be more attention on the running direction:

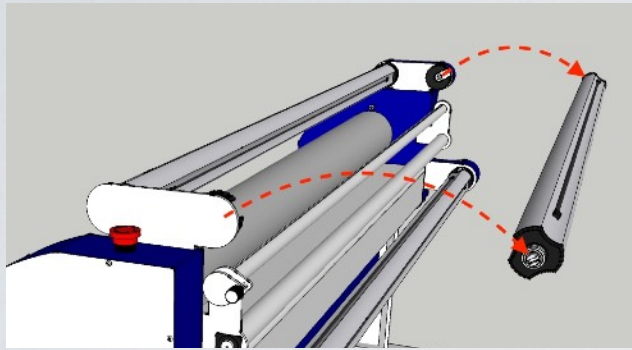


1.

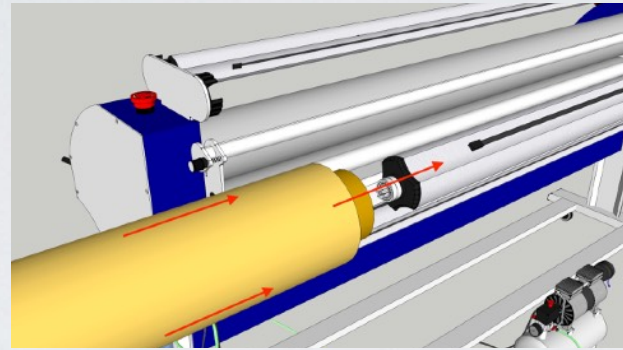


2.

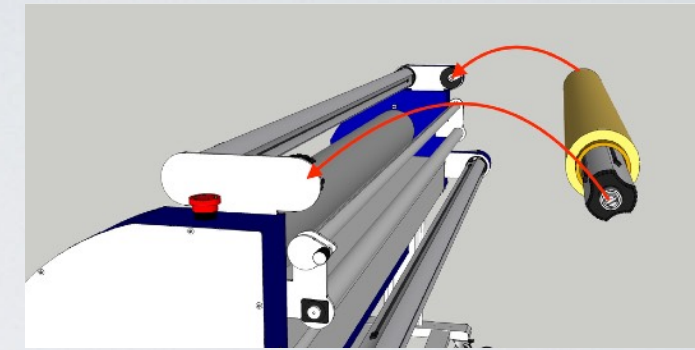




- ➡ Open the bracket shell, pull out the film loading rod from the bracket slot.



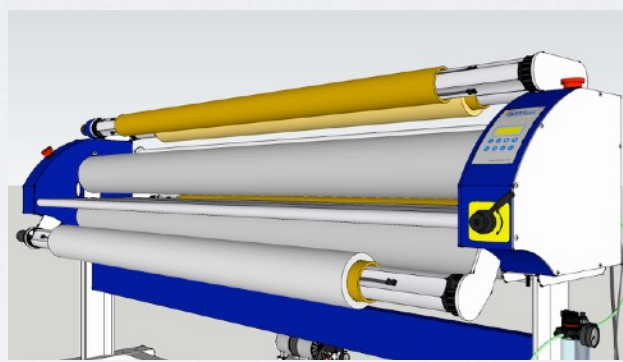
- ➡ Plug the film roll onto the film loading rod, **please be more attention on the rolling direction (reference on the diagram in last page).**



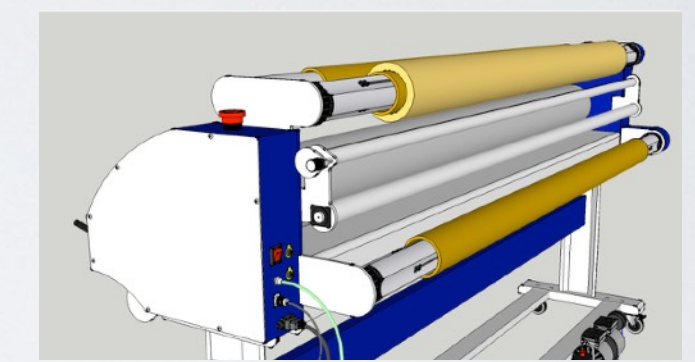
- ➡ Put the film roll back, into the bracket slot.



- ➡ Adjust the film at the middle of the film loading rod.
- ➡ Turn the bracket shell back to close it.

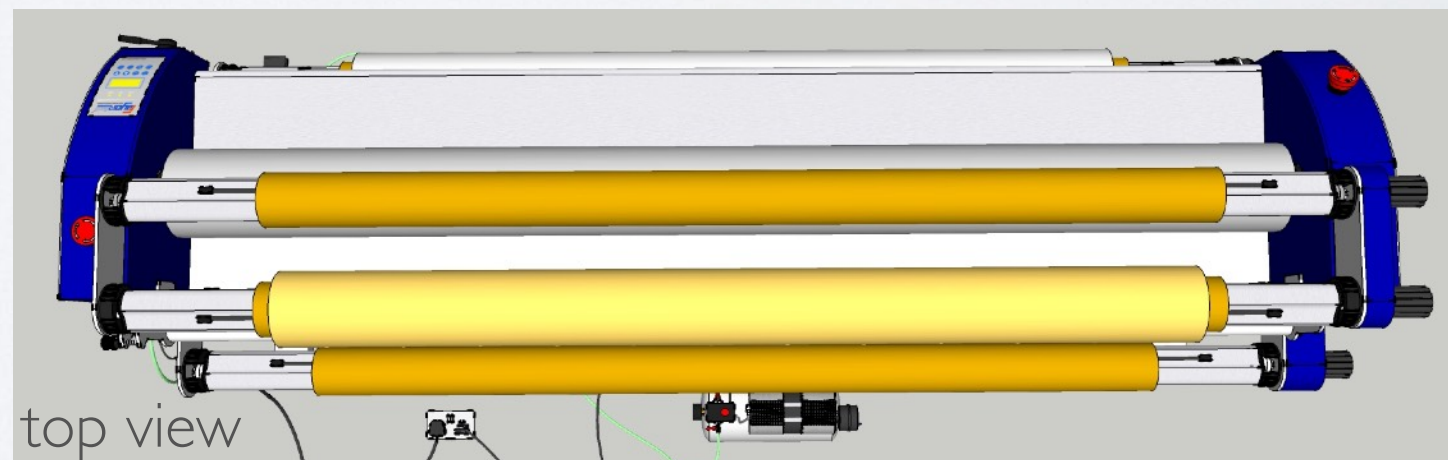


- ➡ Put on the media for the media loading rod, also put on paper tube for the back paper collecting rod.



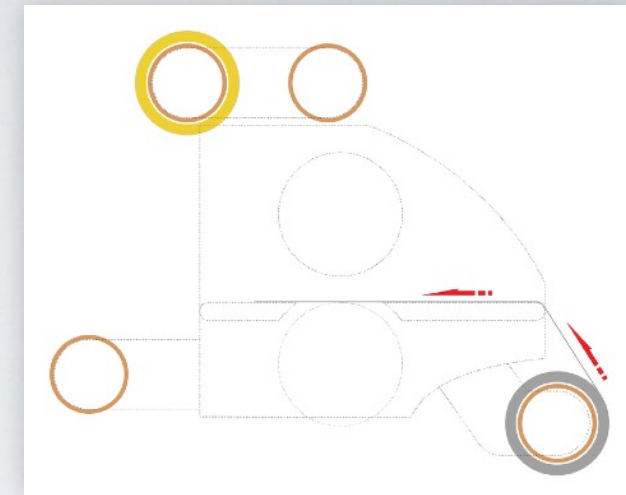
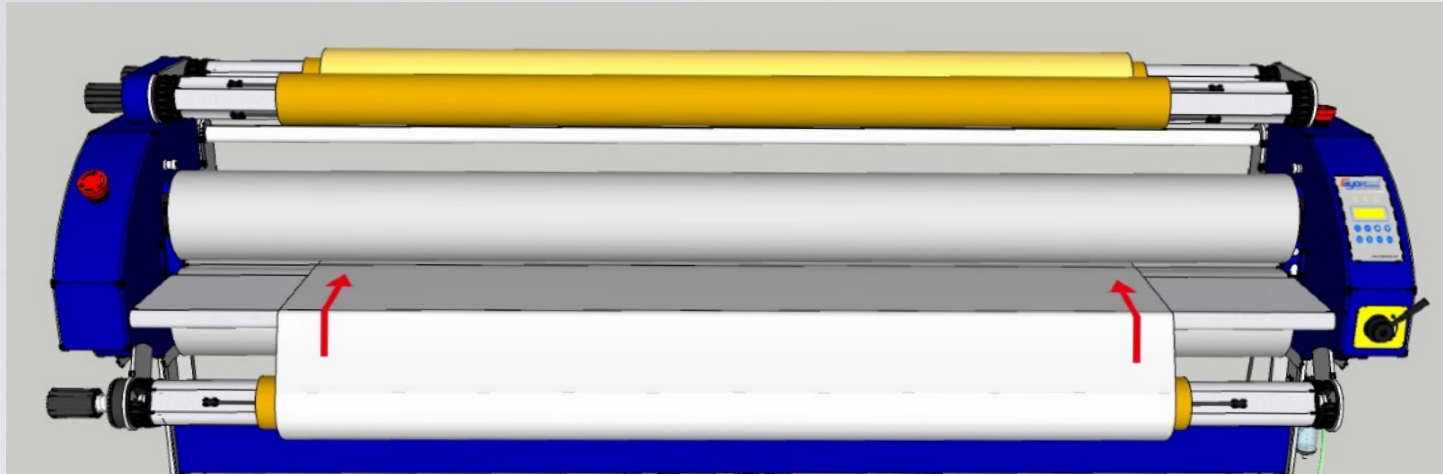
- ➡ Put on the paper tube for the finishing media collecting rod.

- ❖ Ensure that all these media rolls stay straightly in the middle. We could correct according the scales on the Rods and the front platform.

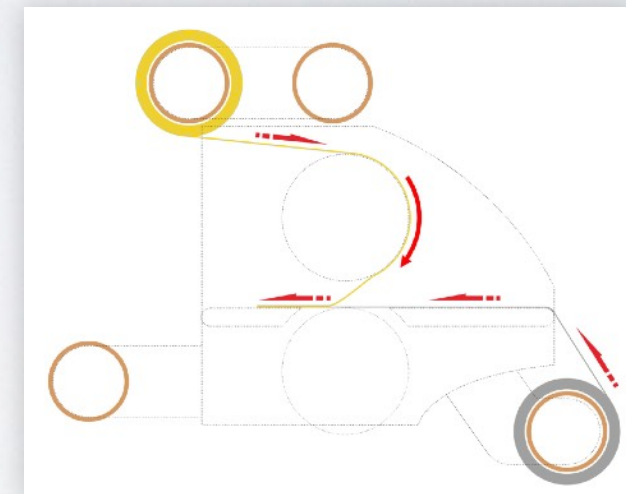
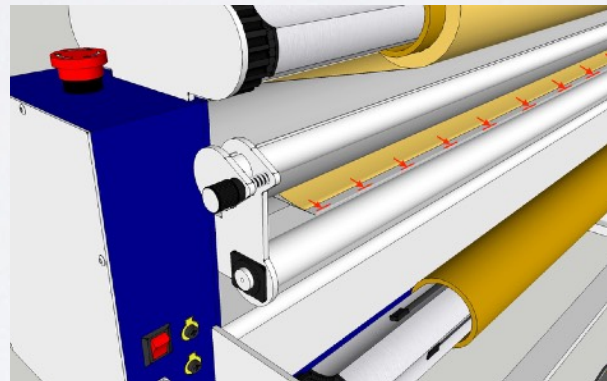
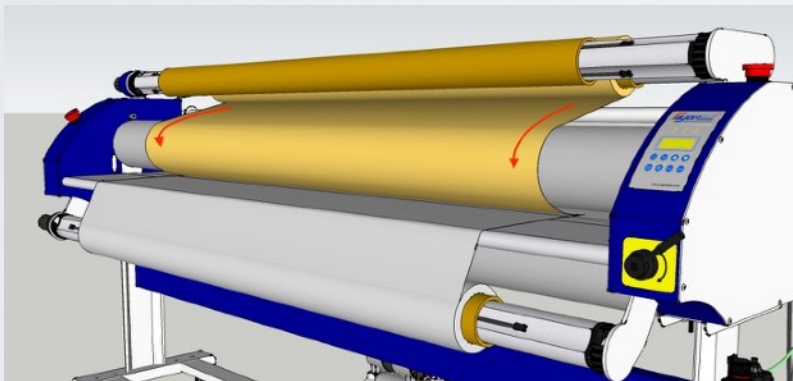




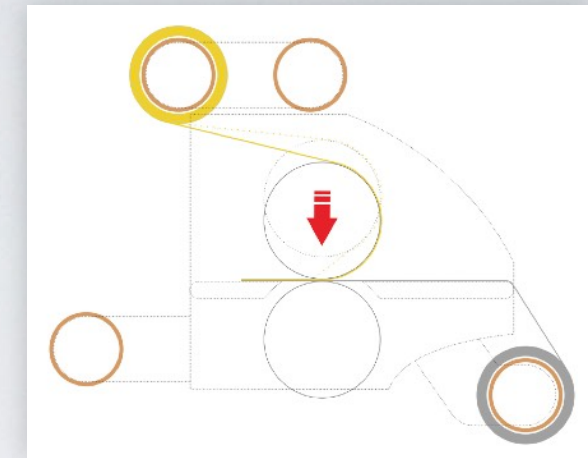
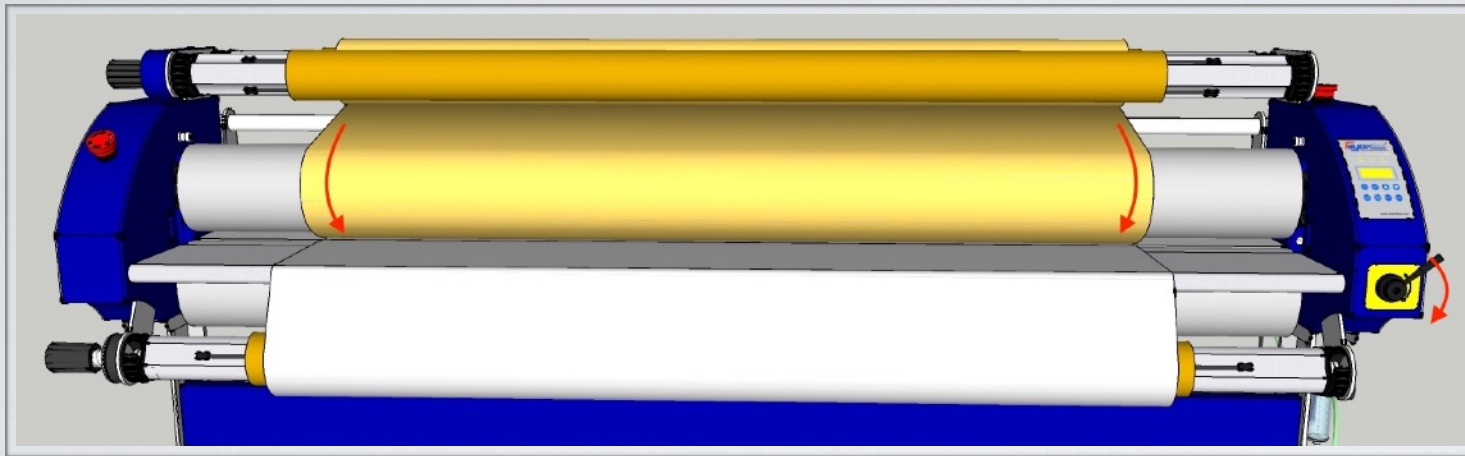
## Step 5. Installing media and film



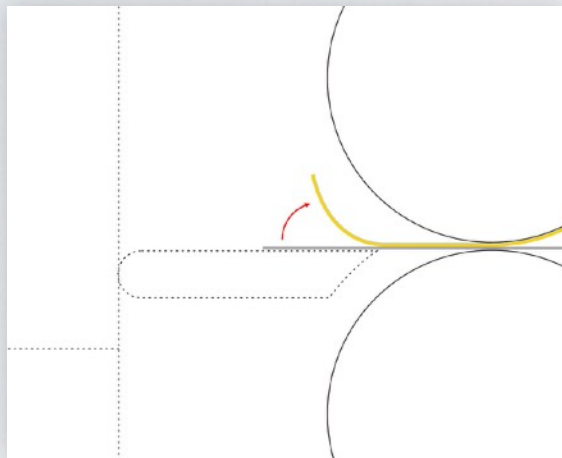
- ➔ Pull the end of media up to the front platform, then flatten it, ensure the media end cover and over the rollers around 15cm.



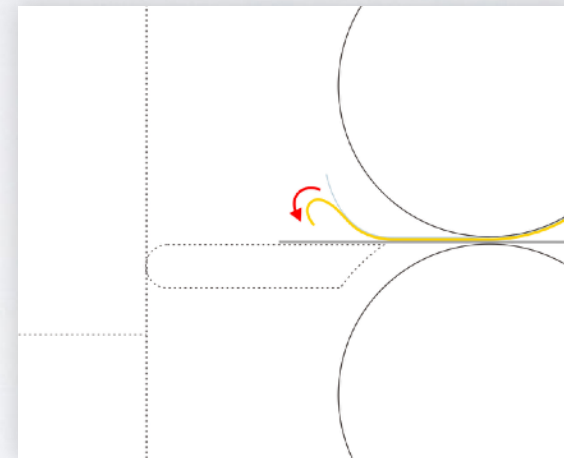
- ➔ Pull the end of the film roll down, through the bottom of up-roller, **make sure the end of film roll align to the end of the media.**



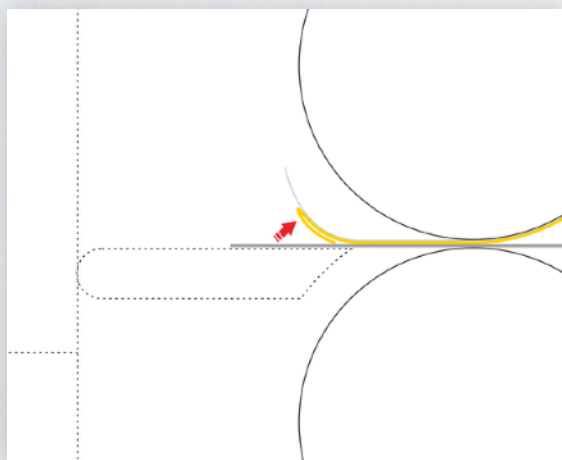
➡ Then press the middle of media by hand while twist the valve handle in clockwise direction, to fall down the up-roller, which will fix the media and the film, ensure there is no any relative movement between them.



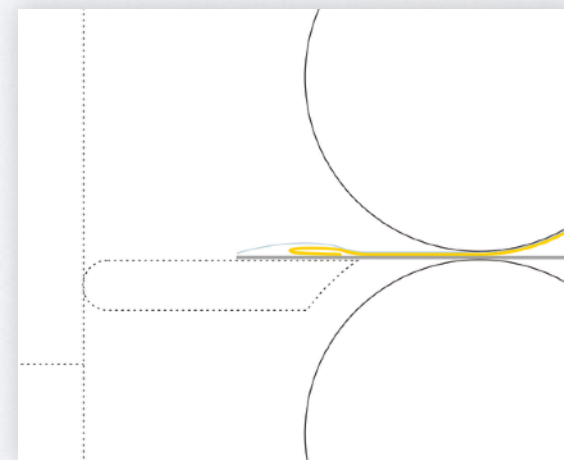
➡ Pick the end of film up



➡ Take off the yellow back-paper

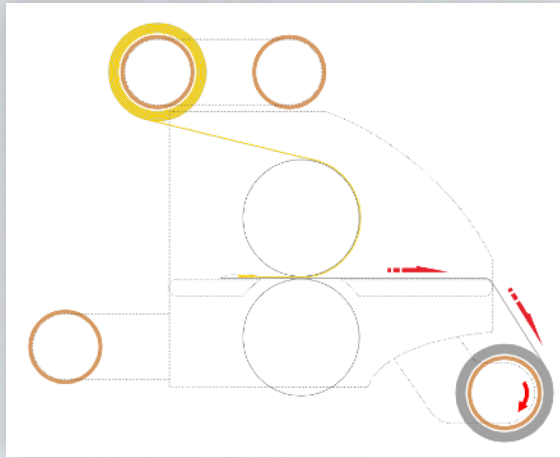



➡ Fold down the yellow back-paper

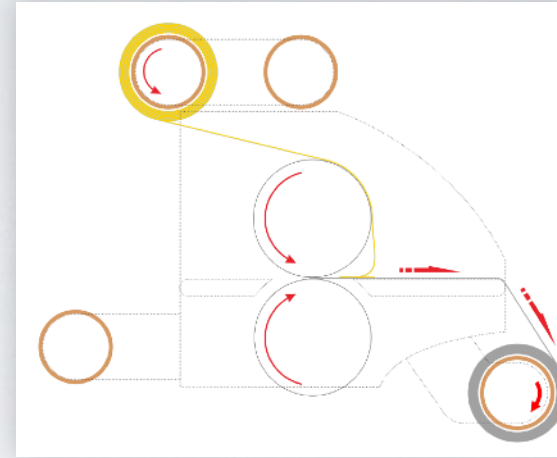


➡ Cover the film on the folded back-paper

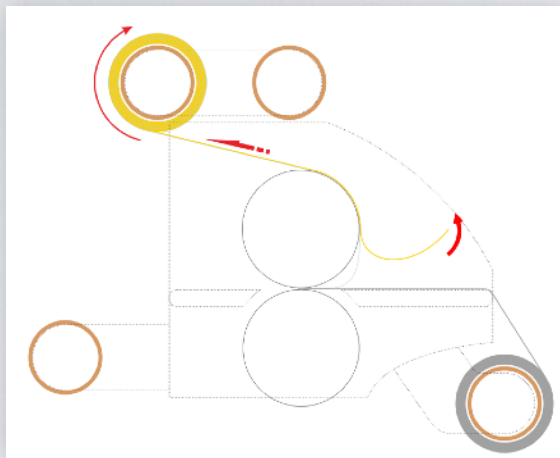




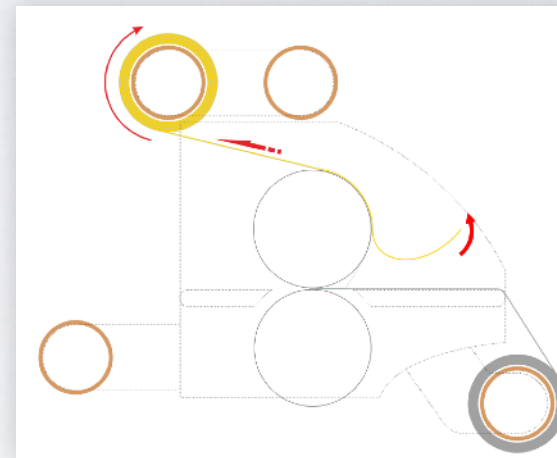
- ➡ Push the button  to lighting the indicator light, which means the roller will rotate in backward.
- ➡ Then step on the feet pedal to make the roller rotating in backward.



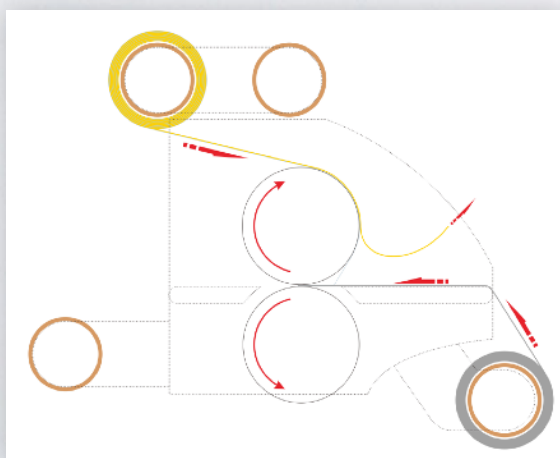
- ➡ Confirm the roller has laminated the film onto the end of media and **still not lost pressing it**, then loose the feet pedal to stop the rotation of the roller.




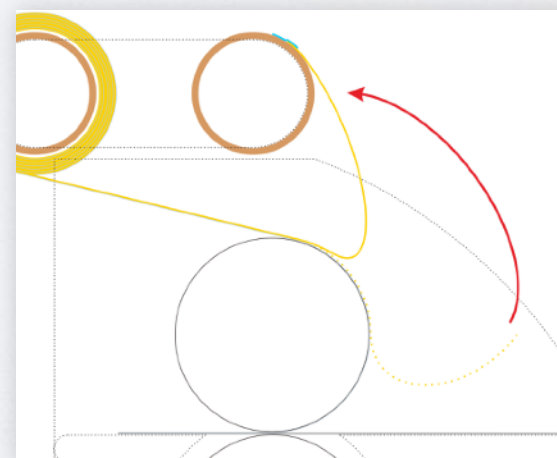
- ➡ Then unfold the end of yellow back paper and pull it up to the back paper collecting rod meanwhile rotate the film loading rod in backward to frap the film.



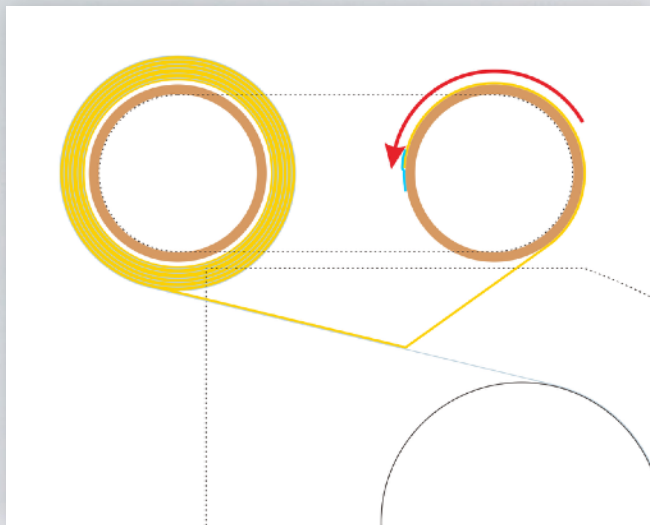
- ➡ Frap the film back to the film loading rod until the film cling to the roller tightly.



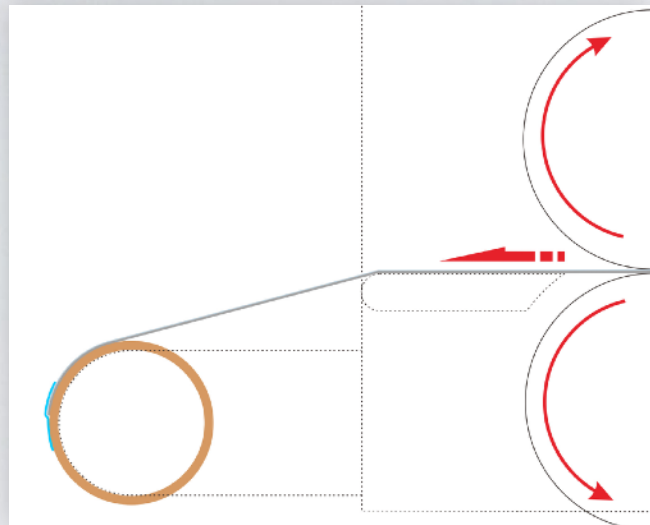
- ➡ Push the button  to make the indicator light out, which means the roller will rotate in forward.
- ➡ Then step on the feet pedal to make the roller rotating in forward for 15~20cm. Then loose the feet pedal to stop it.



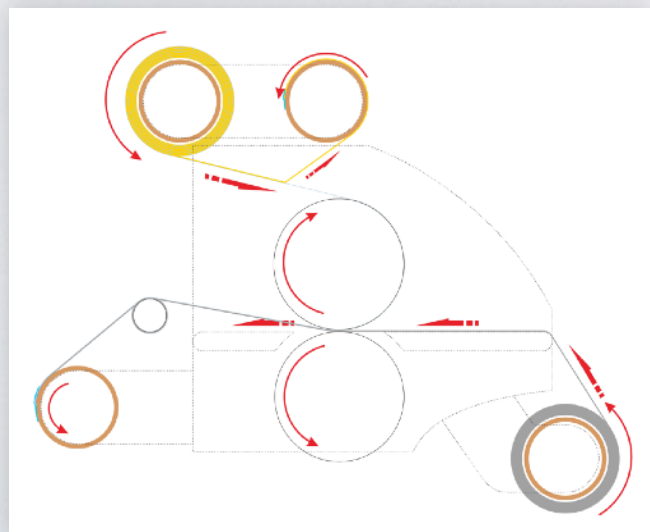
- ➡ When laminating the film onto the media, please keep pulling the back paper up to the back paper loading rod. Then tape it to the collecting tube.



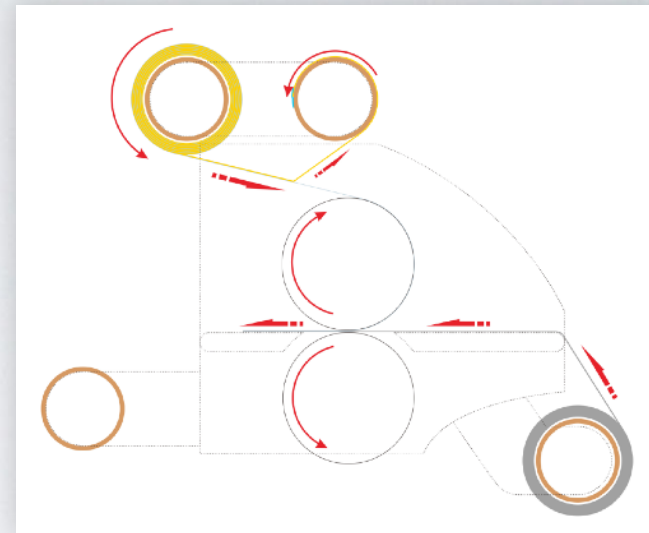
➡ Then collect the back paper by rotating the collecting rod to tight the back paper.



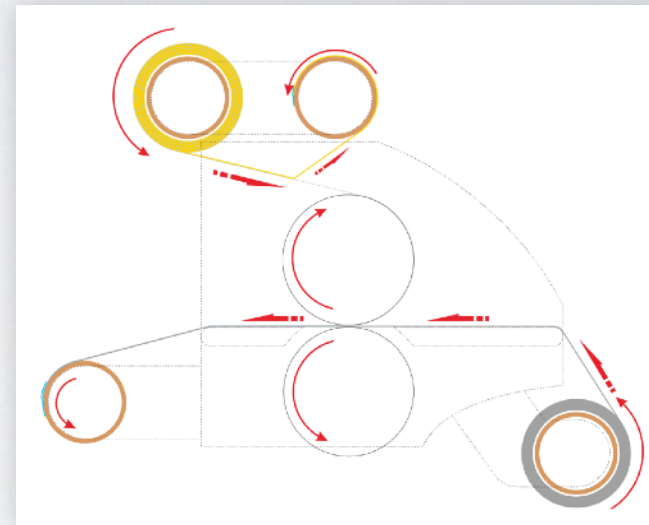
➡ Tape the laminated media to the collecting rod when the length of output is enough.




➡ If the machine equipped the back cutting device, the laminated media should cover the lower supporting rod of the cutting device. Just like the picture showed:



➡ Then step on the feet pedal to make the roller rotating in forward to output laminated media.



➡ Push the button  to switch to the Auto mode. Then loose the feet pedal. The machine will laminate the media automatically by itself.



# How to adjust the roller pressure?

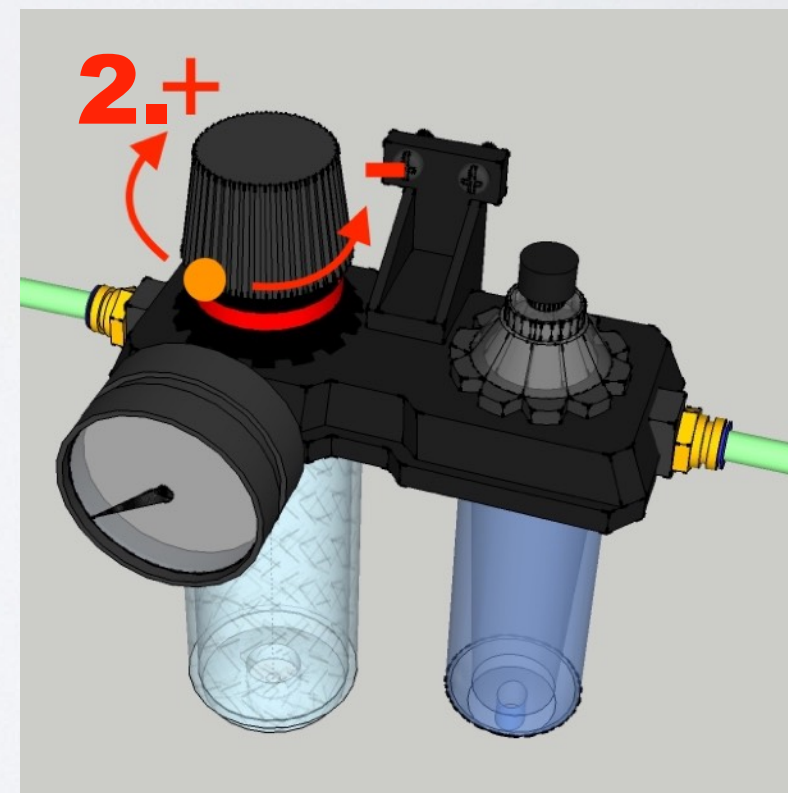
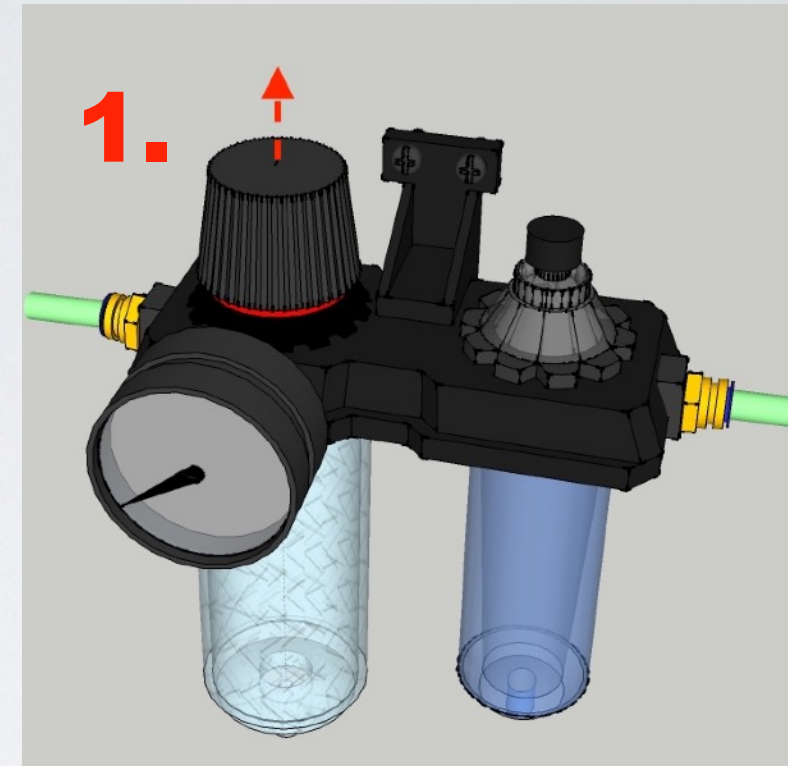
- ▶ Factory set the default air pressure value is 0.4 Mpa;
- ▶ User could adjust the pressure value according the actual work. Specific operation as follows:

## 1. Increasing the air pressure:

Pull up the black knob, which will cause a slight sound of unlocking. Then rotate the knob in clockwise direction, after that we could see the increasing of the reading. After adjusting, push the black knob down to lock it, which has a slight sound of locking.

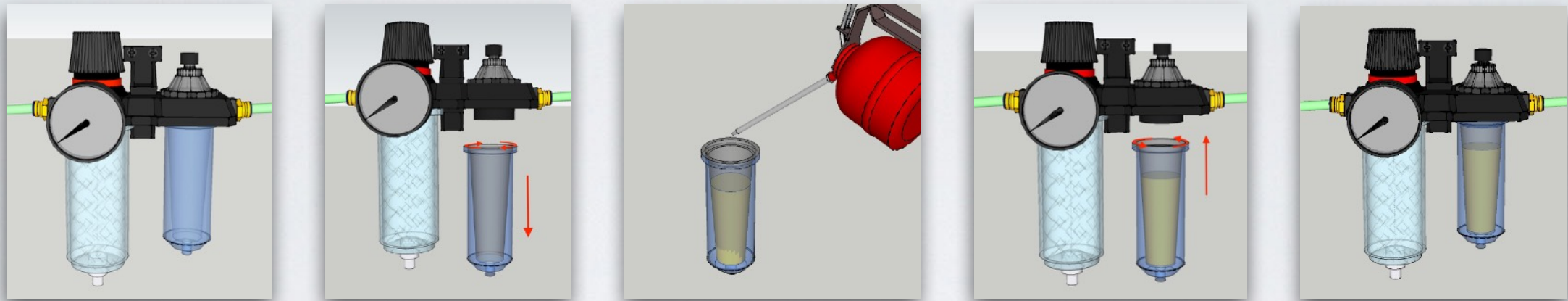
## 2. Reduce the air pressure:

Pull up the black knob, which will cause a slight sound of unlocking. Then rotate the knob in anti-clockwise direction, after that we could see the reducing of the reading. After adjusting, push the black knob down to lock it, which has a slight sound of locking.



# Routine maintenance for FAYON laminator

- First time using the oil-water separator, please well noted to add liquid lubrication oil into the reservoir. Like the pictures below:



(Regular adding lubrication oil could improve the stability of the air cylinder and lengthen its life.)

- After long time using, the water collect bottle on the separator will collect some water, please push the outlet at the bottom of the bottle to drain the water out, which will cause the large Airflow sound, but it's normal and safety for operator.
- Regularly clean the roller with cold water or ethyl alcohol.  
(Prohibit scrubbing the roller by cold water when the roller heating, or it will cause the partial rough and crack, shorten the life of the roller.)
- Avoid the hard and sharpen object broken the roller.
- Please hang up the up-roller by yellow hanging hooks when machine idled for long time, which will protect the rollers out of deformation.





## Frequently asked questions

- Turn on the machine, the screen not lighting:
  - ✓The emergency stop button is not loose. Please twist it in clockwise to unlock it.
- Push heating button and the heating light lighting but the roller not getting heated:
  - ✓Please install the heating tube first, the heating function could be available.
- Twist the valve handle down, the roller not come down:
  - ✓The hanging hooks still hanging on
- Twist the valve handle up, the roller not lifted up:
  - ✓Please check the power link of air compressor and the pneumatic valve on the air compressor. Then power on the air compressor and release valve.
- Under Auto working model, the machine stop working, but the screen is lighting:
  - ✓Please check if any object or media block the infrared safety device lighting, then remove it or flatten the media.