

FY-1600DA Roll to Roll laminator

User Manual



Please read this operating instructions before installation and keep this for later use.

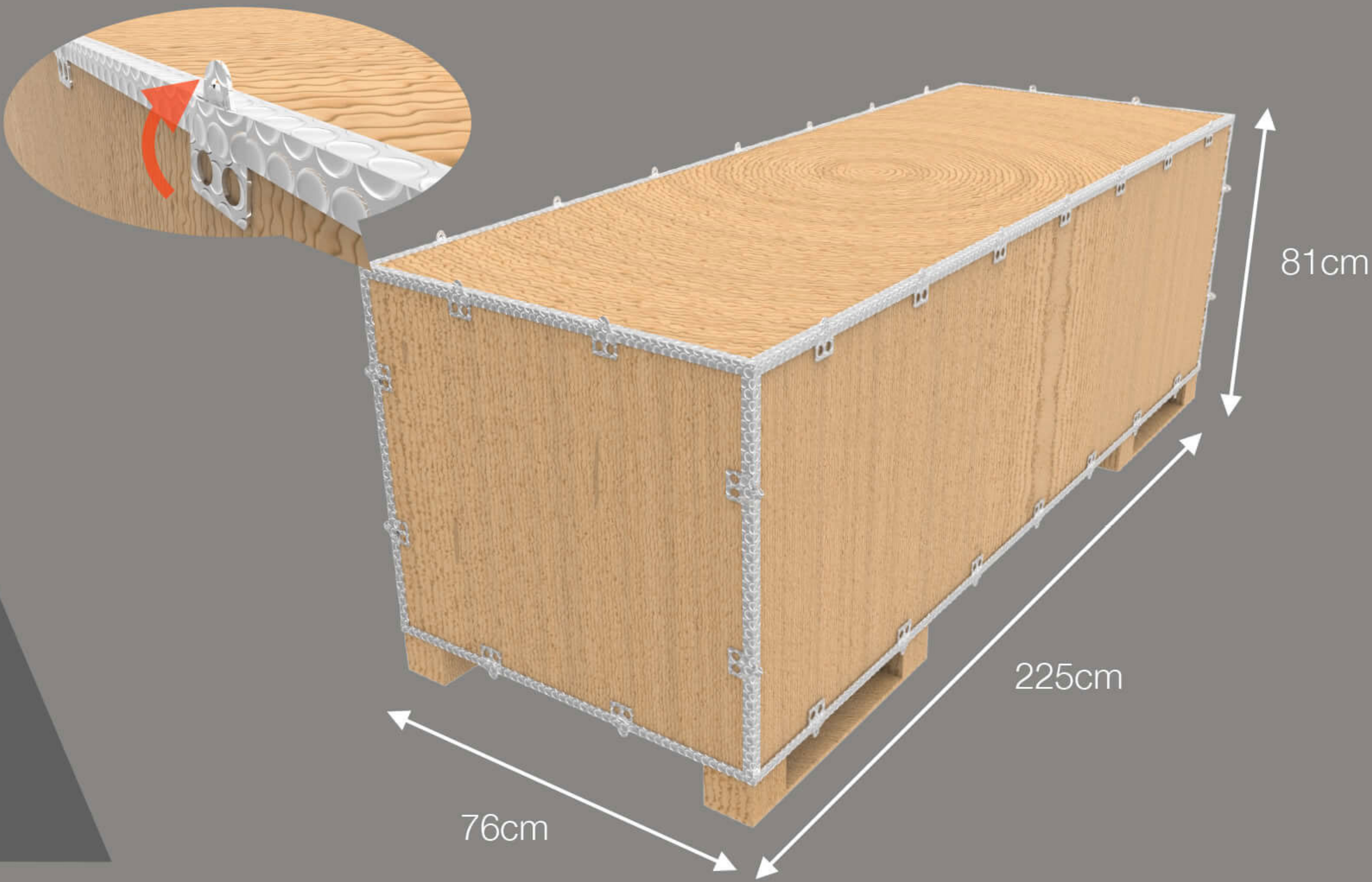
PACKING INSTRUCTION

The Package is made of Steel buckle box and Plywood board, free of Fumigation.
The package dimensions:

225cm×76cm×81cm

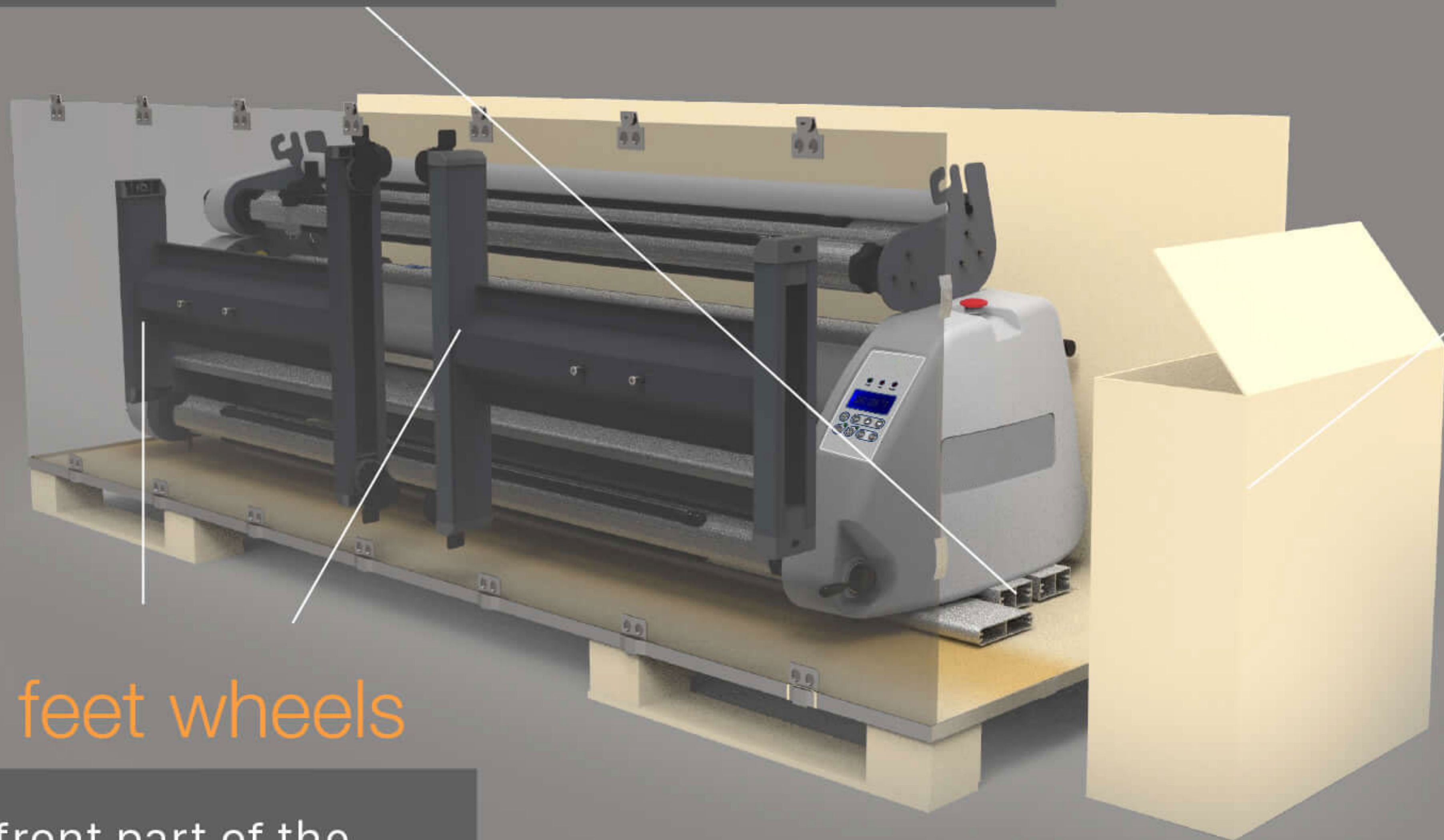
The box shall be disassembled by loosening the buckles around the edges.

Tools Needed: Hammer、Flat Tip Screwdrivers



Stand connection Beams

Fixed on the package bottom, bind by the fasten belt.

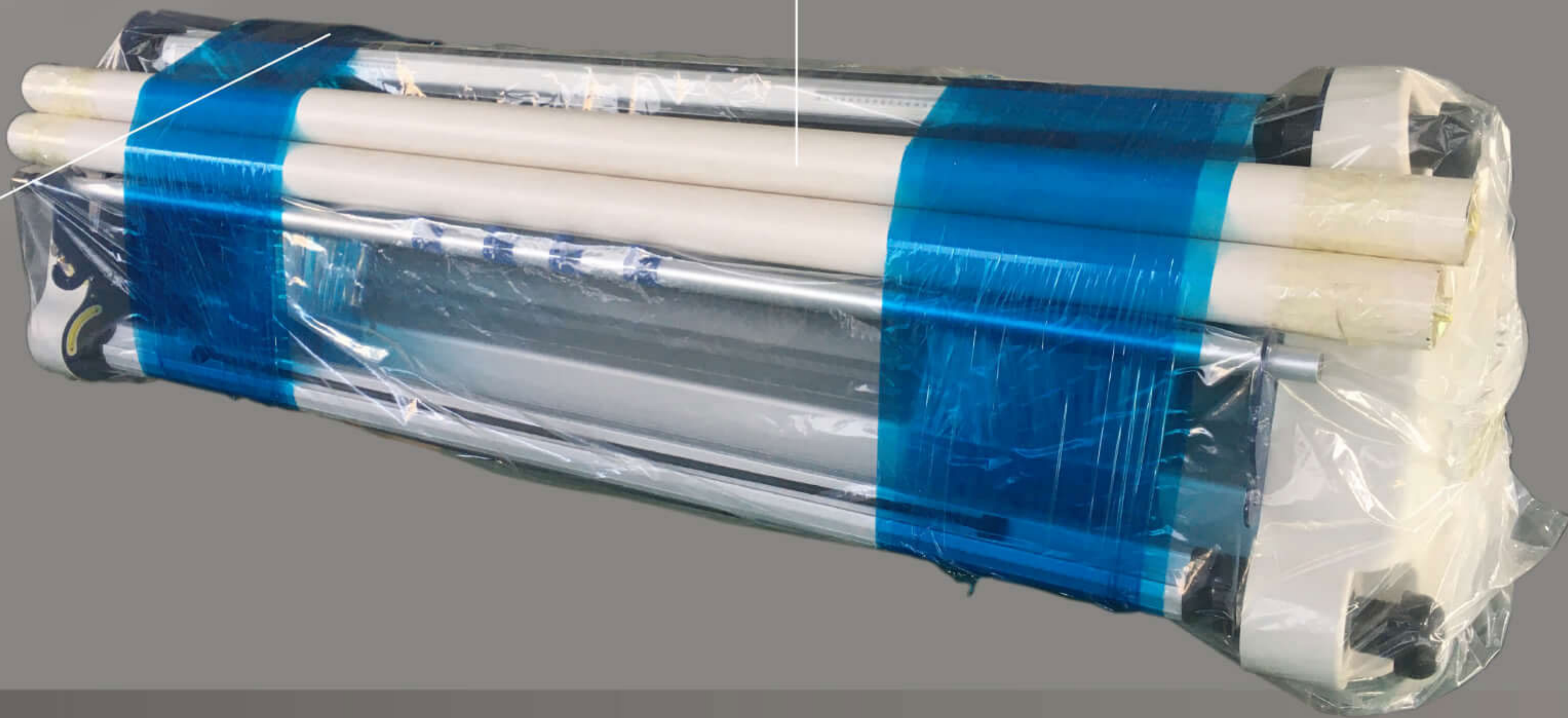


Air compressor

Packed together with Main machine, fixed by belt from the bottom, we need cut off the belt to release the air compressor from the bottom. Then take the compressor out.

Heating Elements

Packed inside of PVC tubes, fixing by the blue packing film. The machine just install one unit, the other one is for standby.



Stand with feet wheels

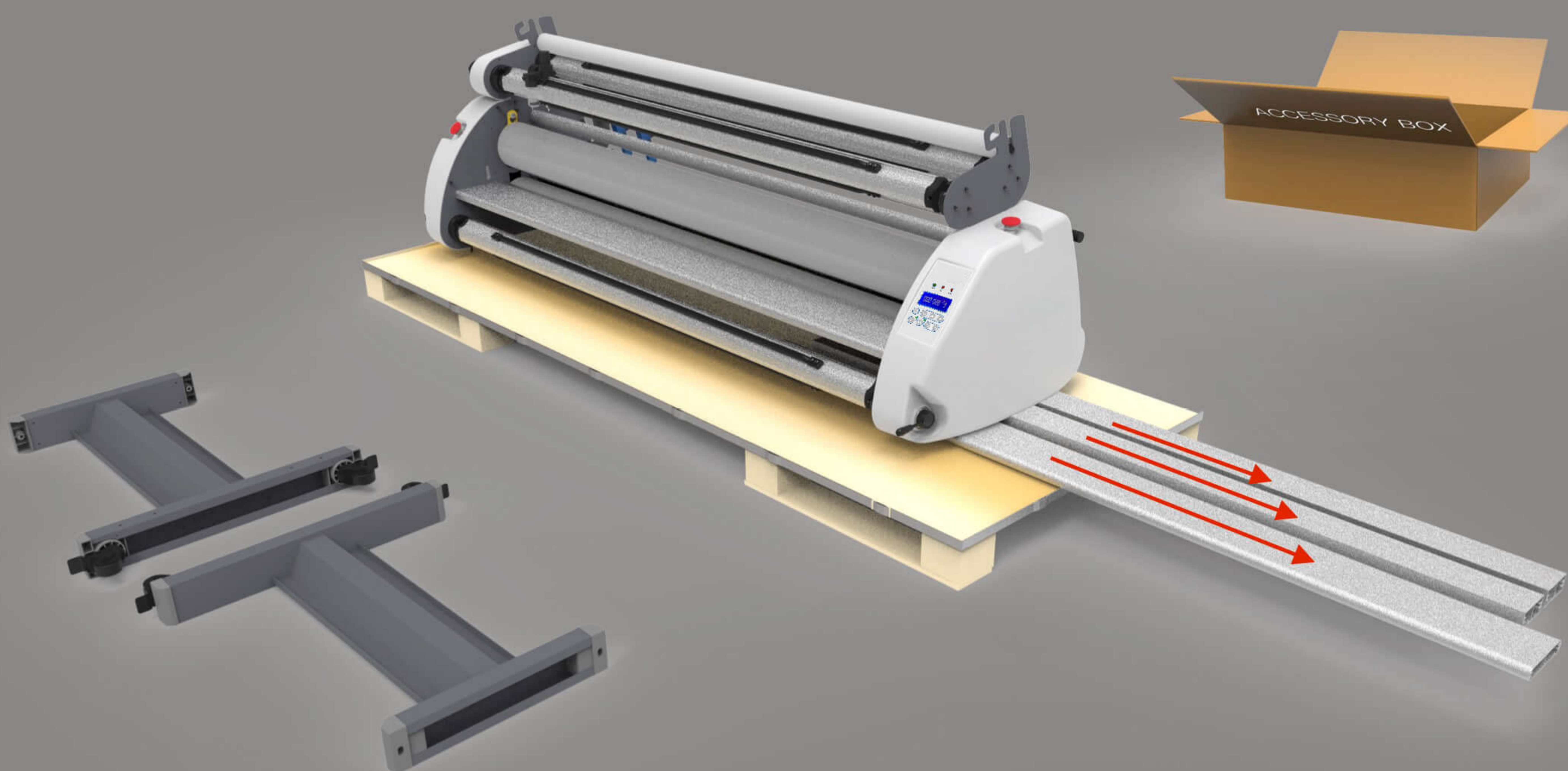
Fixed on the front part of the wooden case by two bolts. We need remove the bolts first to release the stands.

Power Cable

Fixing by the blue packing film.

Release Main machine from the package bottom:

1. Cut off the belt fixing the Main Machine, and release it out of the package.
2. Cut off the belt fixing the Stand connection beams at the bottom, and pull the beams out and put aside.
3. Remove all the walls of case.



ACCESSORY BOX CONTAINS:

HEXAGON SOCKET BOLTS M-8×16 mm	12 pieces
Round Shim $\varnothing 8 \times 1.5 \text{ mm}$	4 pieces
Open end wrench 8mm	2 pieces
Nuts M8	4 pieces
Inner hexagon wrench No.3/4/5/6	1 piece/each
Bolts Gasket 3.5cm×6cm	4pieces
Fuse/15A	1 piece
Fuse/1A	1 piece
Oil-water Separator with fixing screws	1 piece
Feet Pedal	1 piece
Big Fraction Pad	2 Pieces
Small Fraction Pad	2 Pieces
Air Tube 5×8mm	3 m
U-shape Shell(Standby)	2 Pieces
Tension Knob	2 pieces
Slitting head	1 piece
Power Cable	1 piece

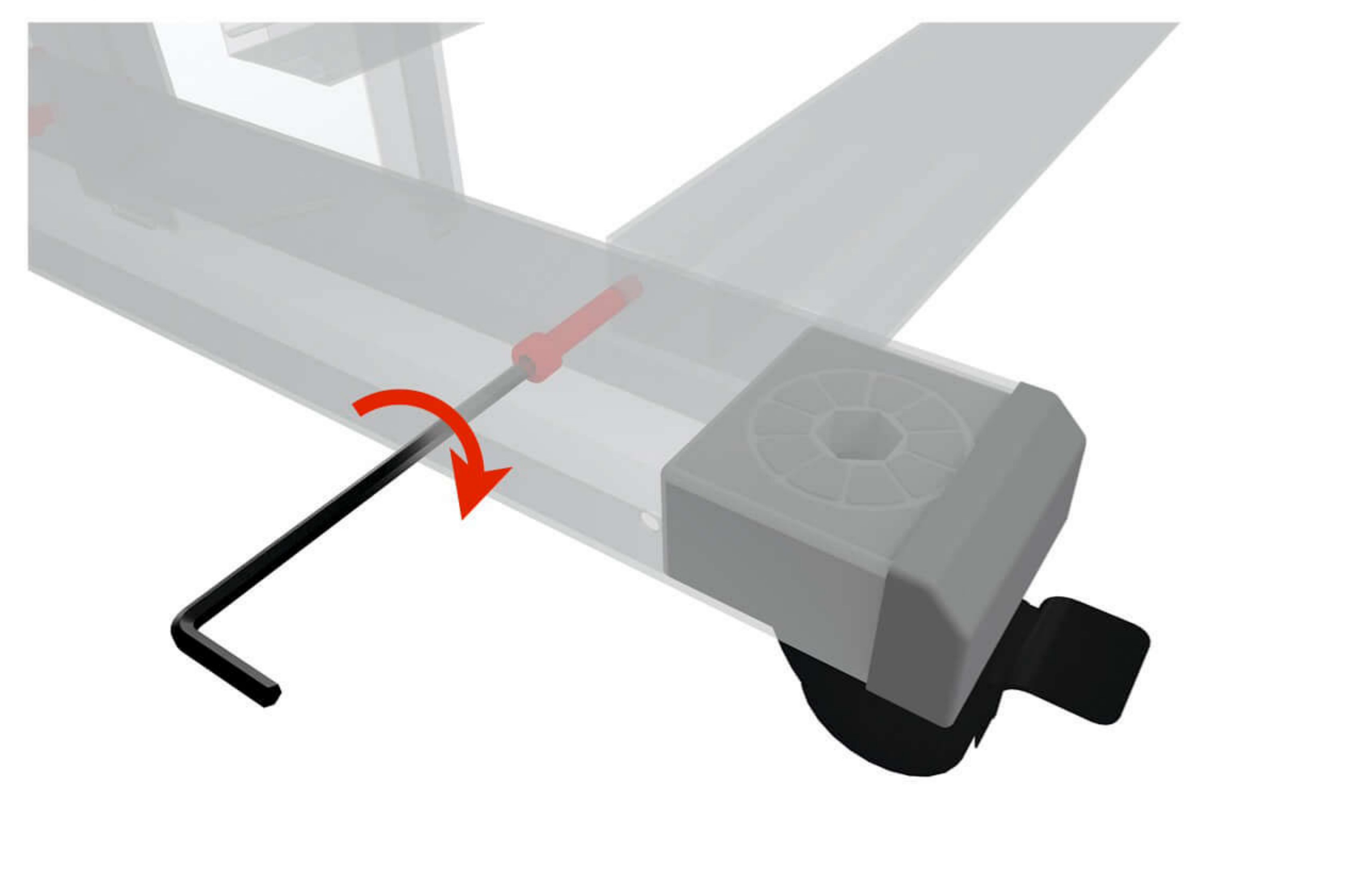
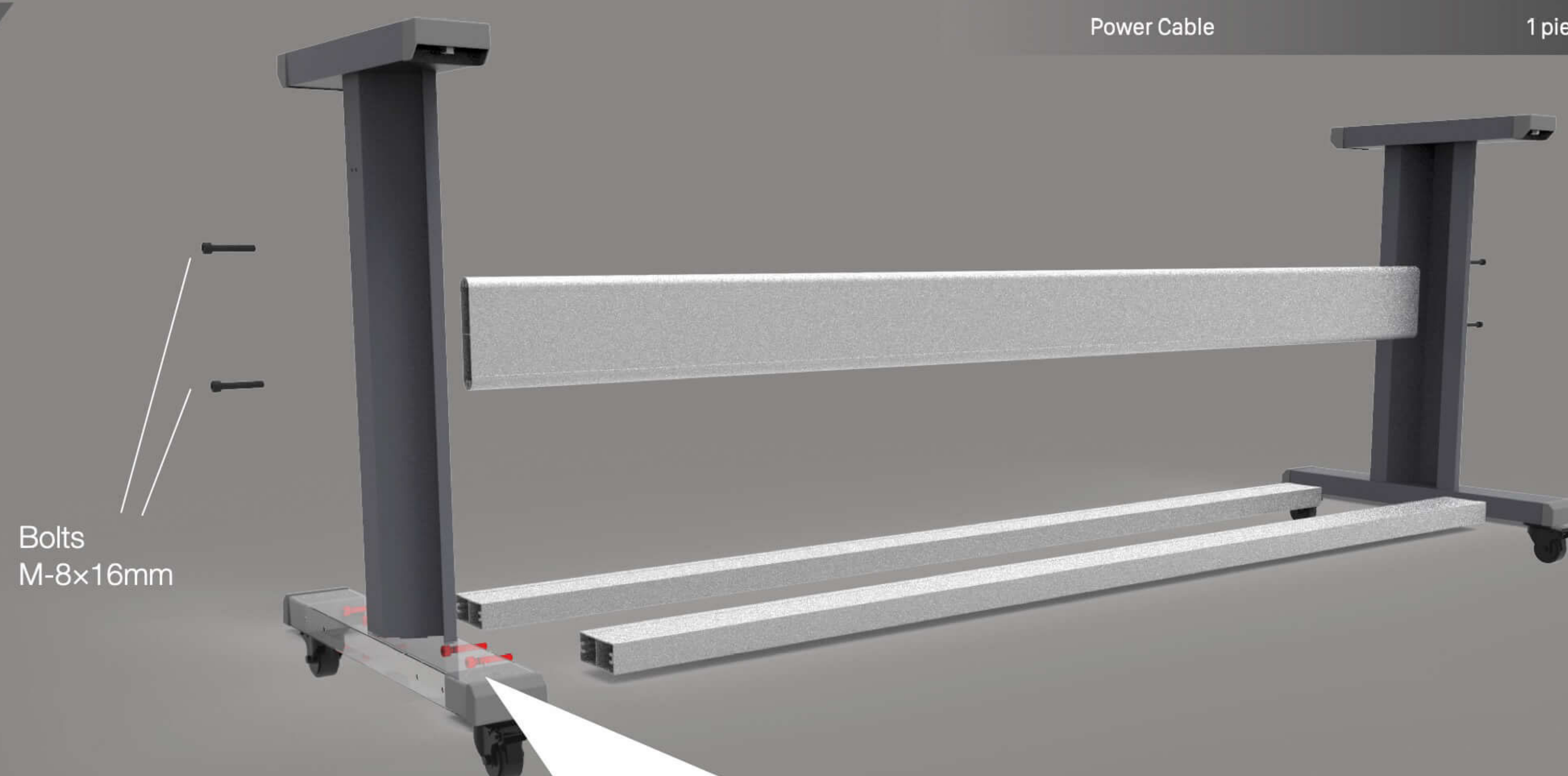
Stand Frame Assembly:

Assembling the **stand frame** is the first step to built your laminator.

Both of the **Stand frames** are totally the same, which could be assembled at will.

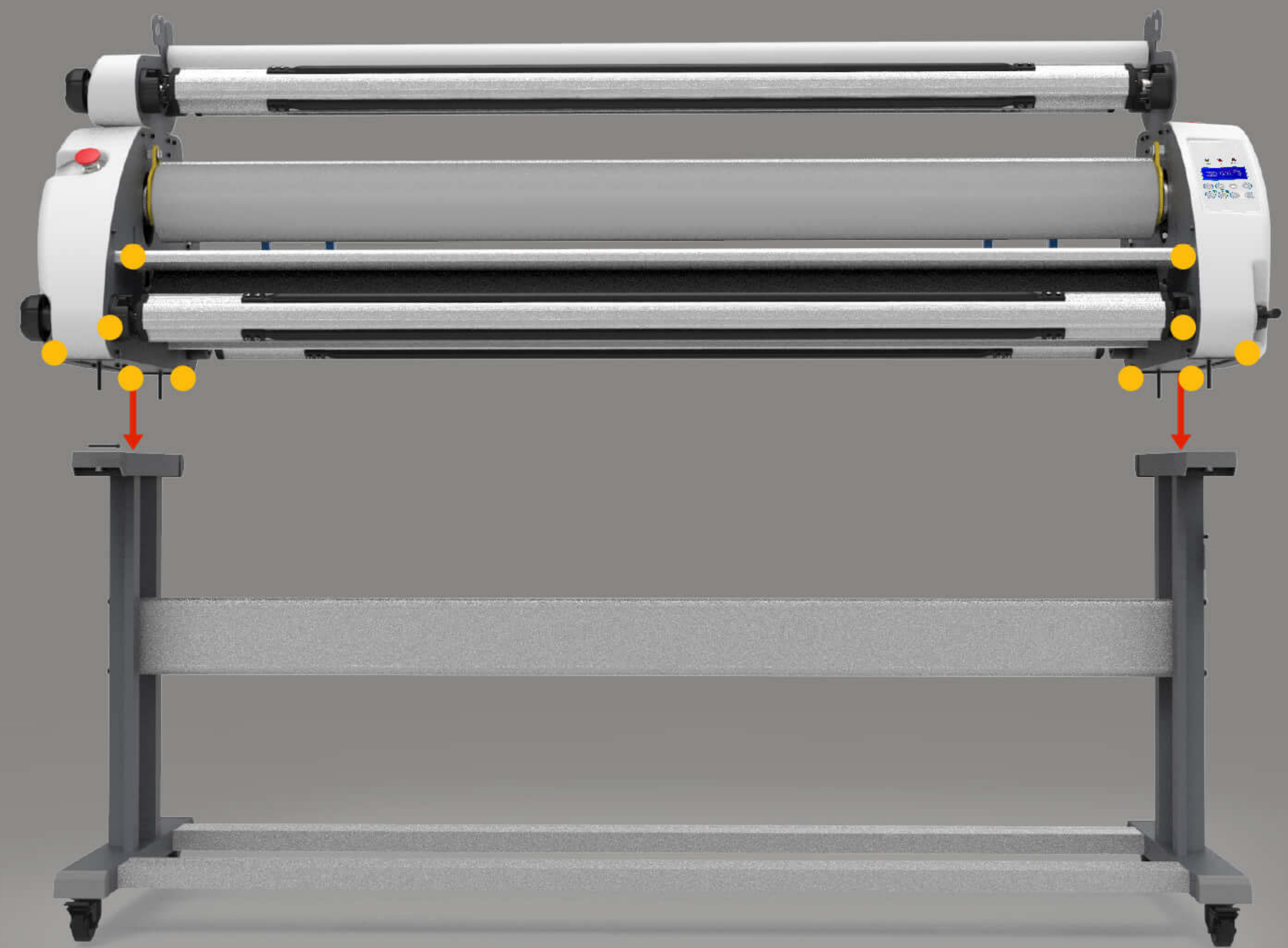
Take out the bolts M-8×16mm, and put the **stands frame** and the **stand beam** together, then screw the bolts into the thread hole.

Note: PLEASE FASTEN THE BOLTS THROUGH **THE HOLES** AT OUTSIDE **OF STANDS** WHEN INSTALLING. Just like the close-up shot showing.



INSTALL THE MAIN MACHINE

We need four person to raise the main machine up from the package bottom. Take care for the holding position, better on the main frame/table. Just like the yellow points showed:



Note to align the four fitting holes on top of stands when dropping.

Then screw the nuts back to fixing the machine fitting.

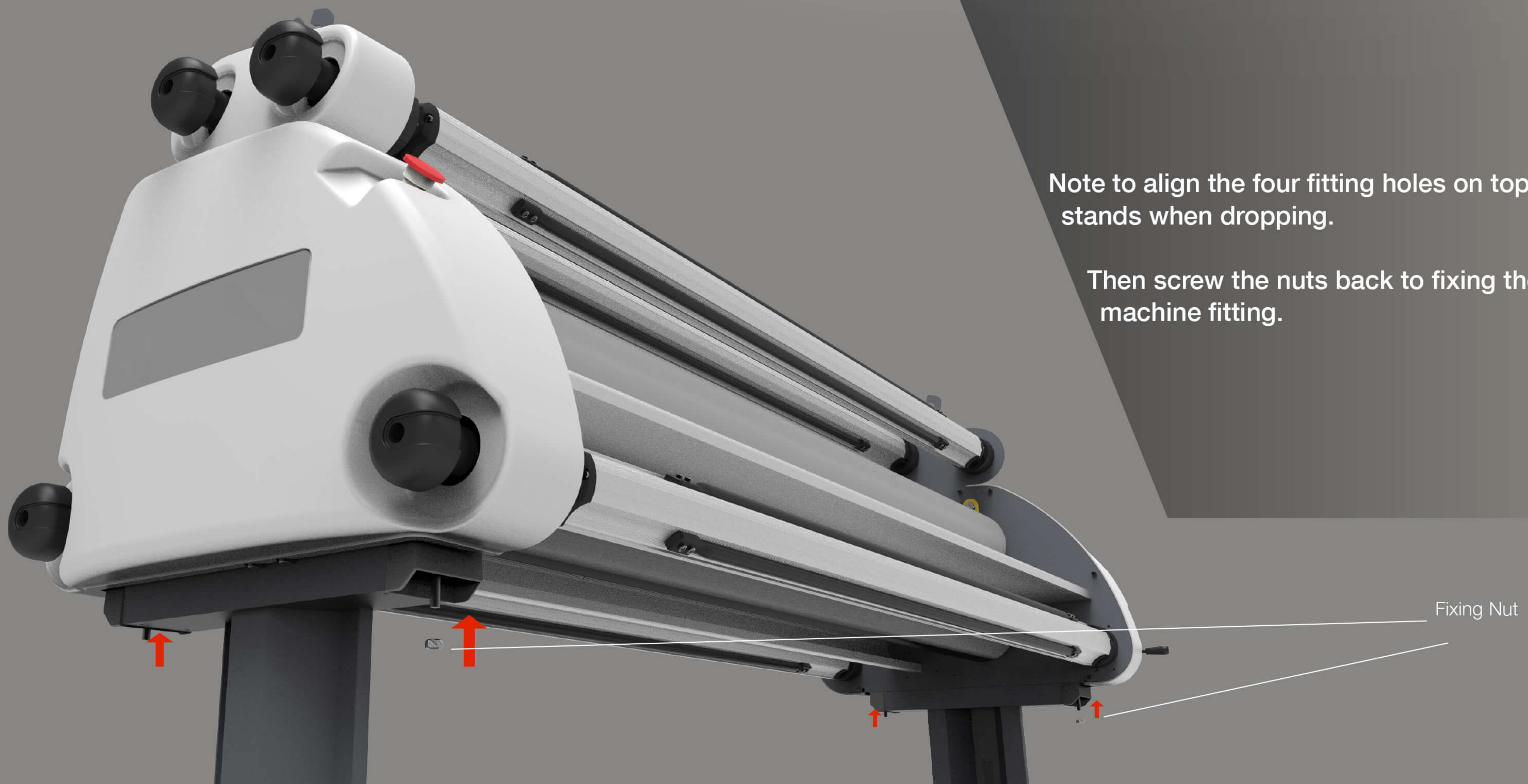
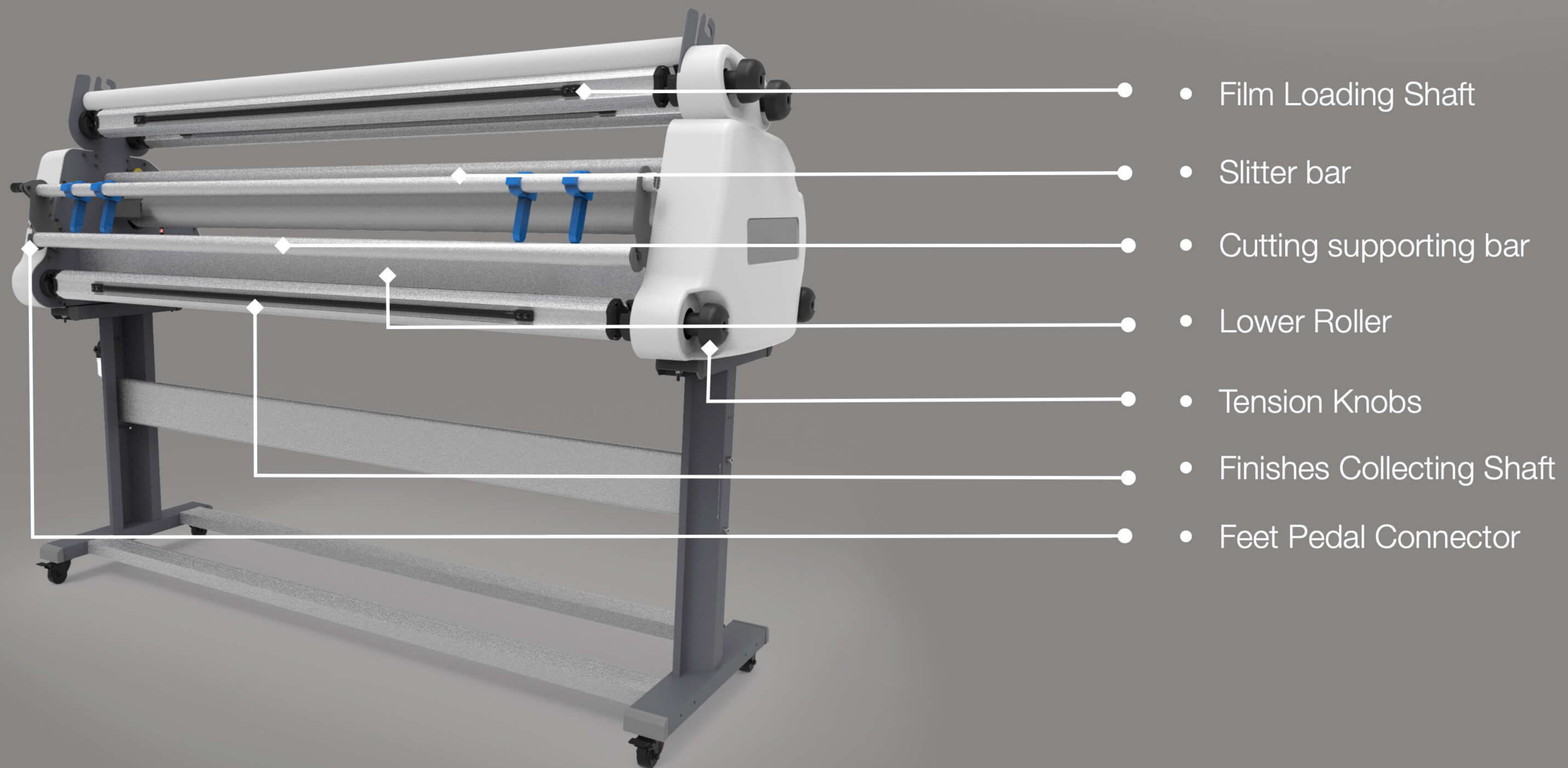
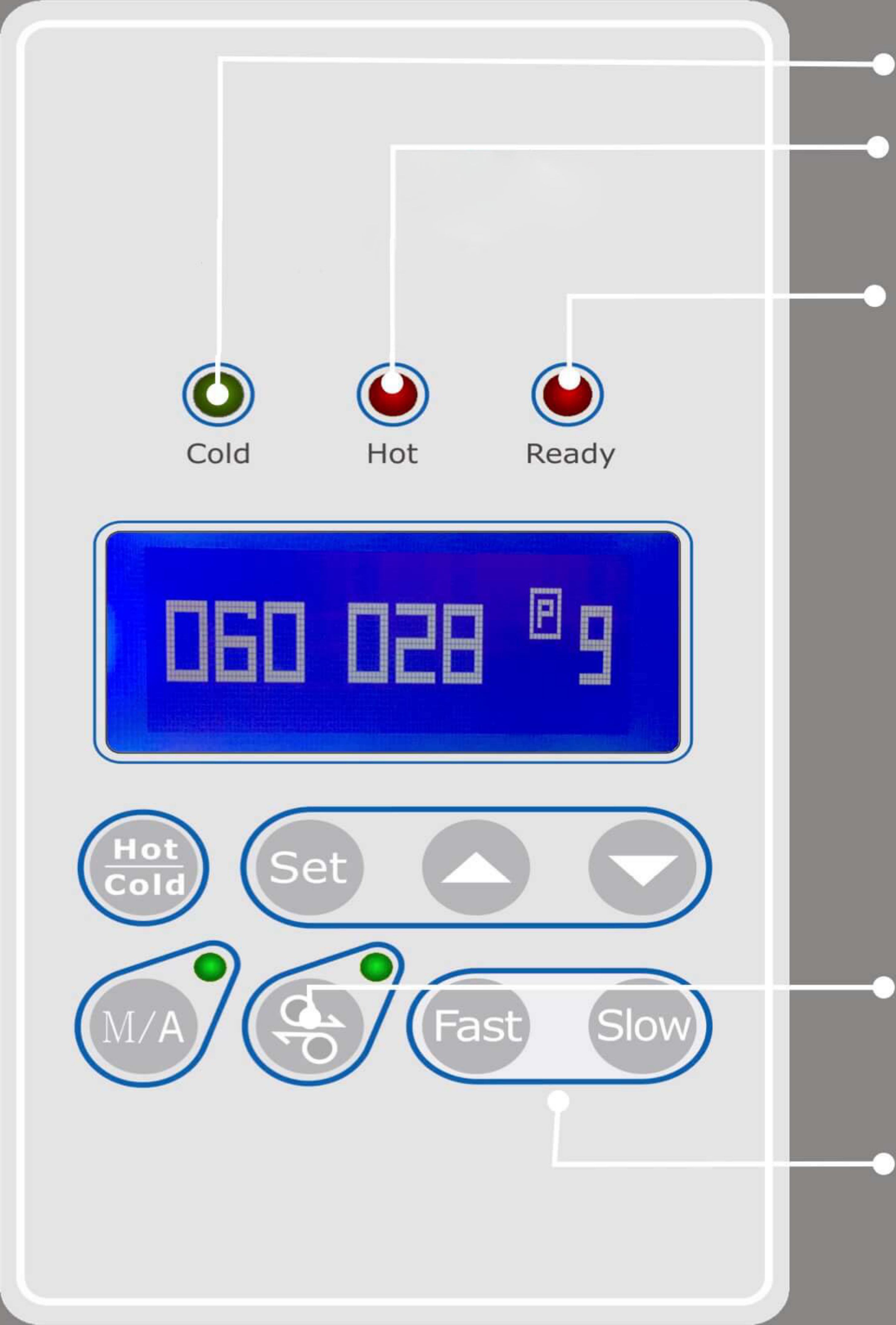


DIAGRAM OF WHOLE MACHINE



INSTRUCTION OF CONTROL PANEL/BACK PANEL



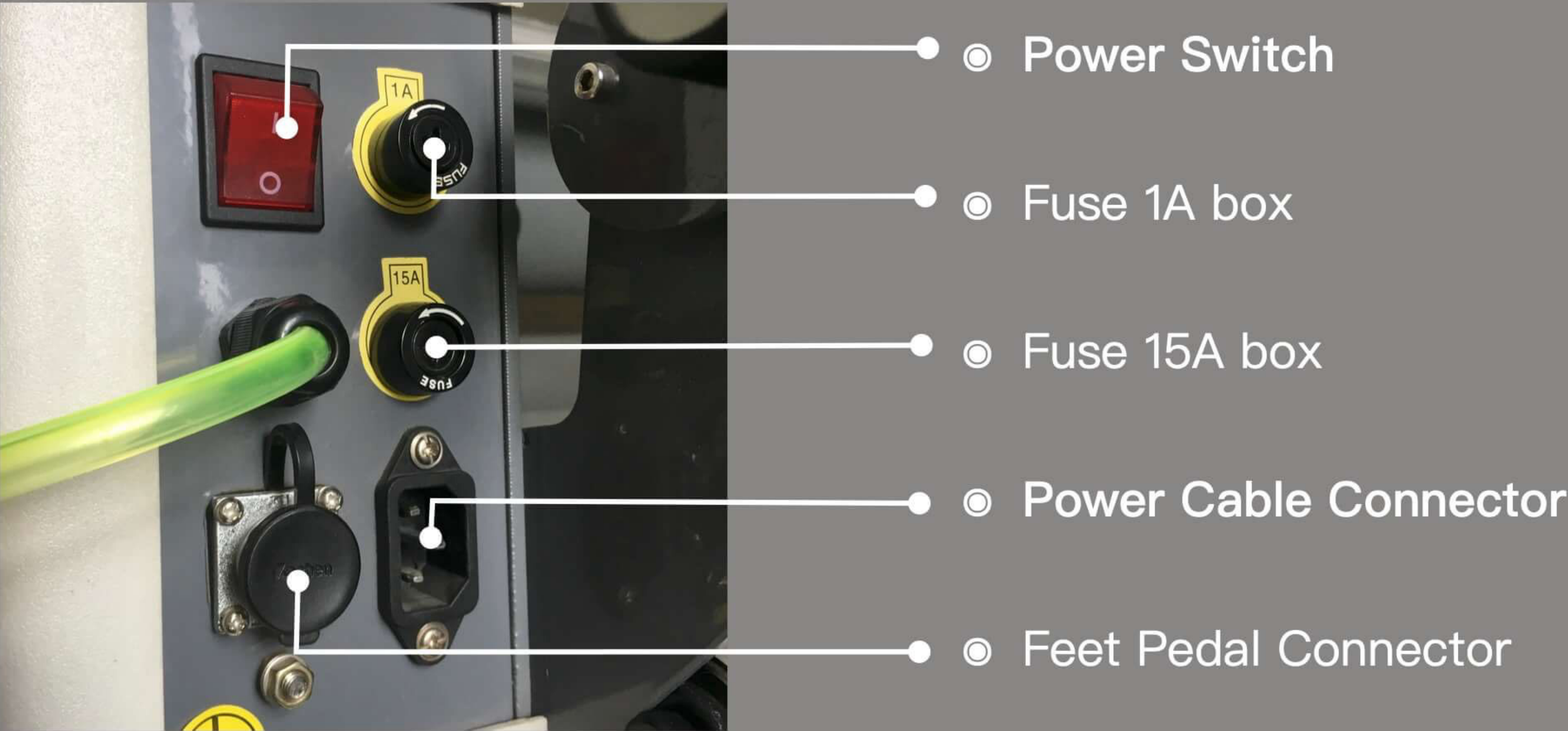
- * **Hot light:**
 - ◆ lighting means the machine roller working under hot state
- * **Cold light:**
 - ◆ lighting means the machine roller working under cold state
- * **Ready light:**
 - ◆ lighting means the roller surface temperature has reached the set value
- **Hot/cold switch:**
 - ◆ Control the switch of hot/cold model
- **M/A switch:**
 - ◆ under Auto model, the machine can keep running at the speed set;
 - ◆ under Manual model, the machine is controlled by the feet pedal.
- **Forward/backward switch:**
 - ◆ Control the direction the roller running, usually used during film installing.
- **Speed adjust button:**
 - ◆ Just adjust the working speed

➔ About setting:

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

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

Press the **Set** button for third time to end up your setting.



Further advises for installation:

Power Supply

The connection sockets have to be close to the machine.

- AC voltage 200 V – 230 V
- frequency: 50 — 60 Hz
- strength of electric current: 16 A

Location

The location to place the machine must provide enough space to work. Don't forget that space is also needed to insert and remove the material. Please consider the dimensions of the pictures and sheets used.

Place

Prepare a flat location suited to the size of the machine and also consider its accessories.

Lighting

Good lighting (300 — 600 lux) is indispensable to operating and maintaining the machine safely.

Room properties

The laminator has to be placed in a closed room and has to be protected against weather effect.

- Permissible room temperature: 18°C to 35°C.
- Humidity range permitted: 30% to 80%

Electricity connection

Check that the electrical supply corresponds with the machine performance.

With connecting to the electricity supply, the laminator must be earthed.

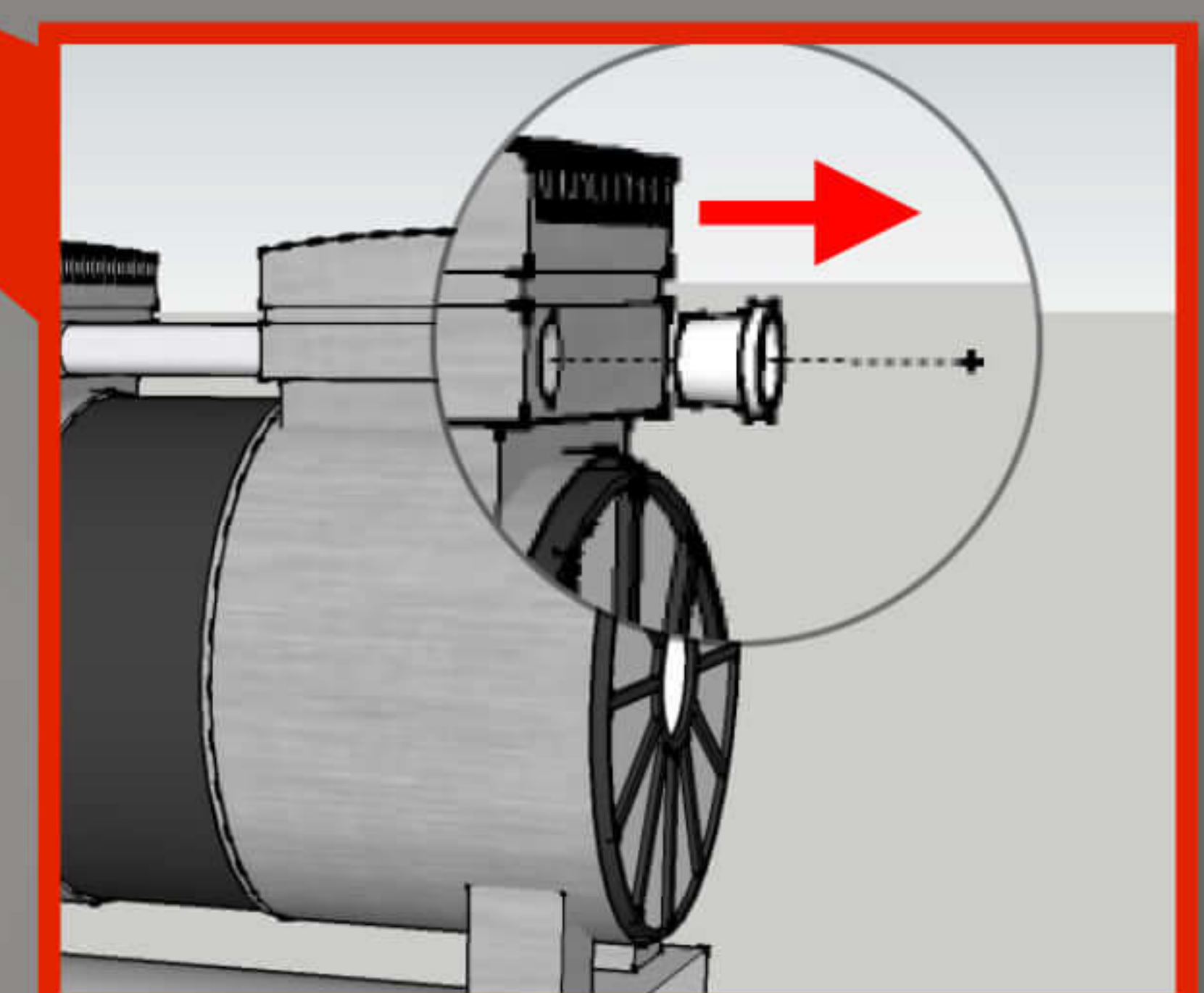
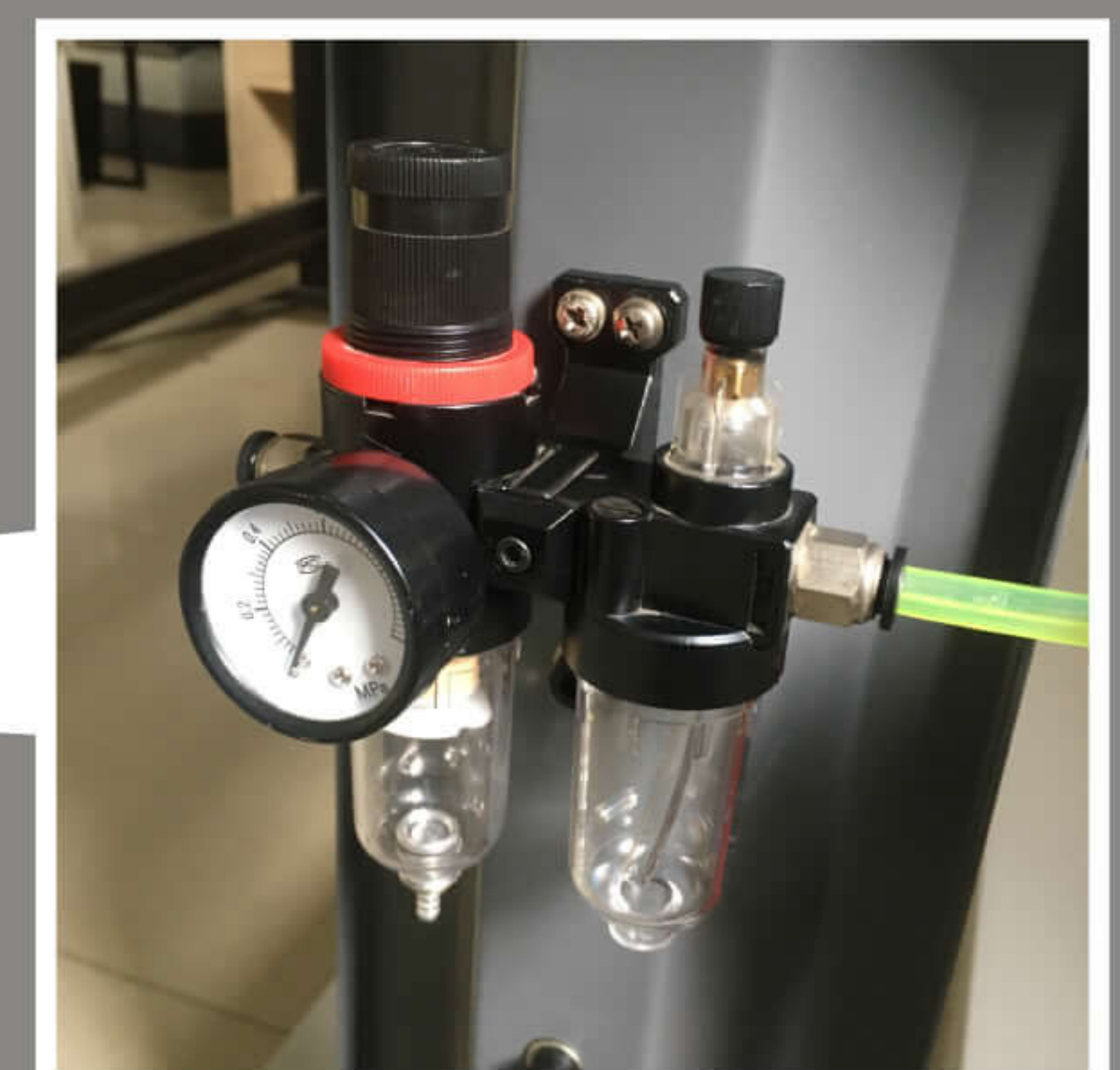
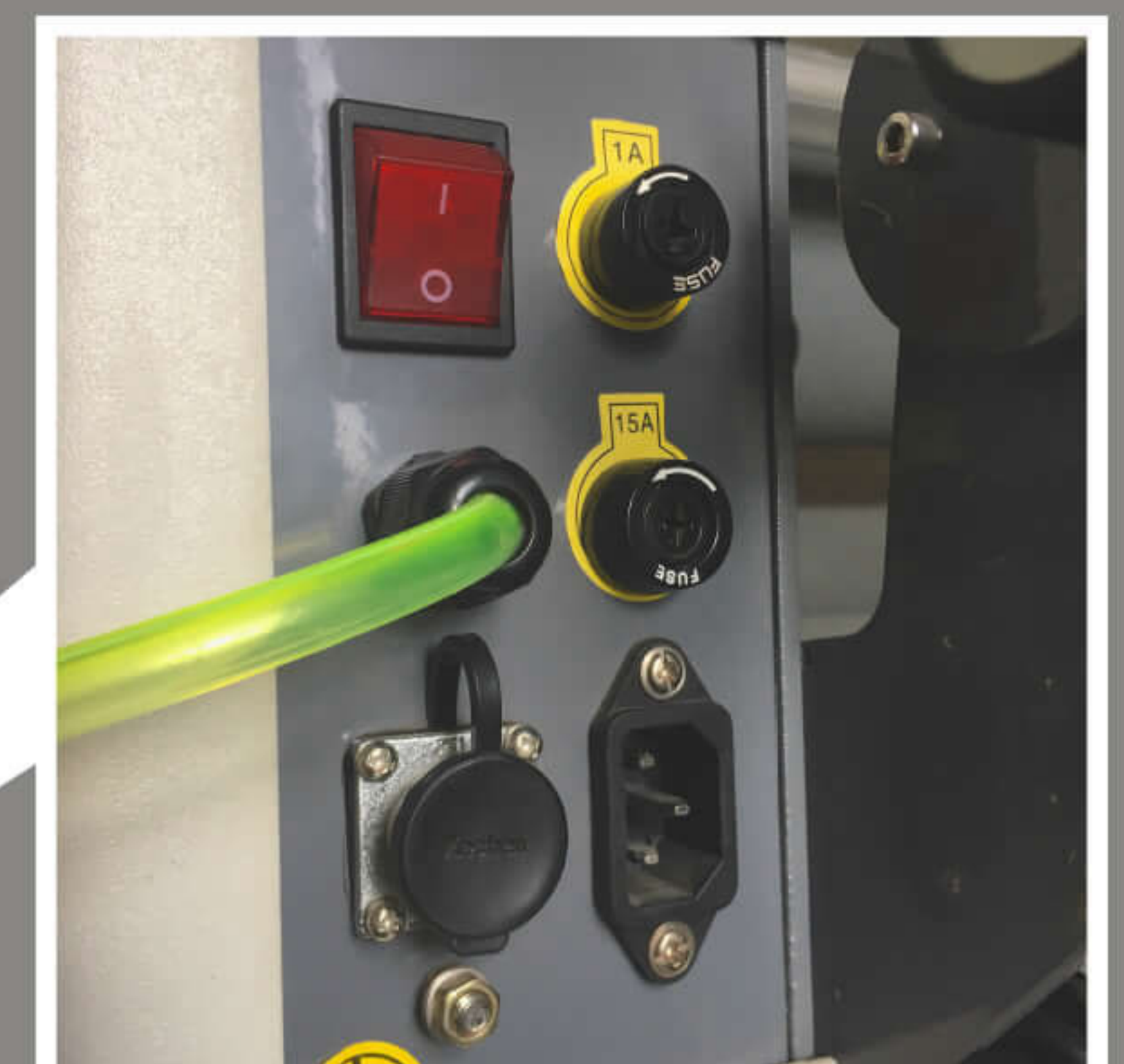
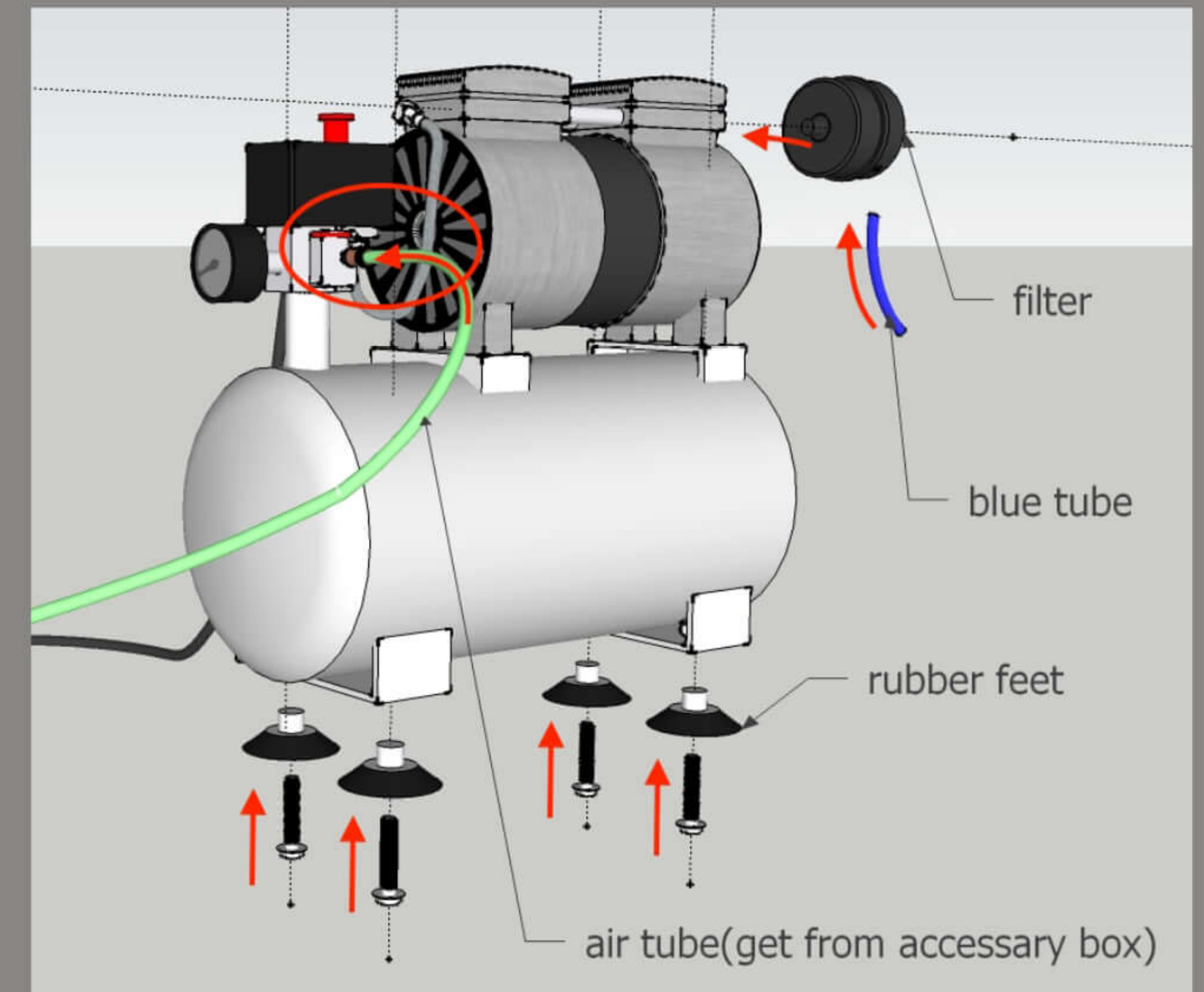
To connect the laminator with electric supply system:

- Interrupt the current supply.
- Connect the connection cable to a suitable plug or directly to the main (capsule rail, junctionbox, etc.).

CONNECT THE AIR COMPRESSOR

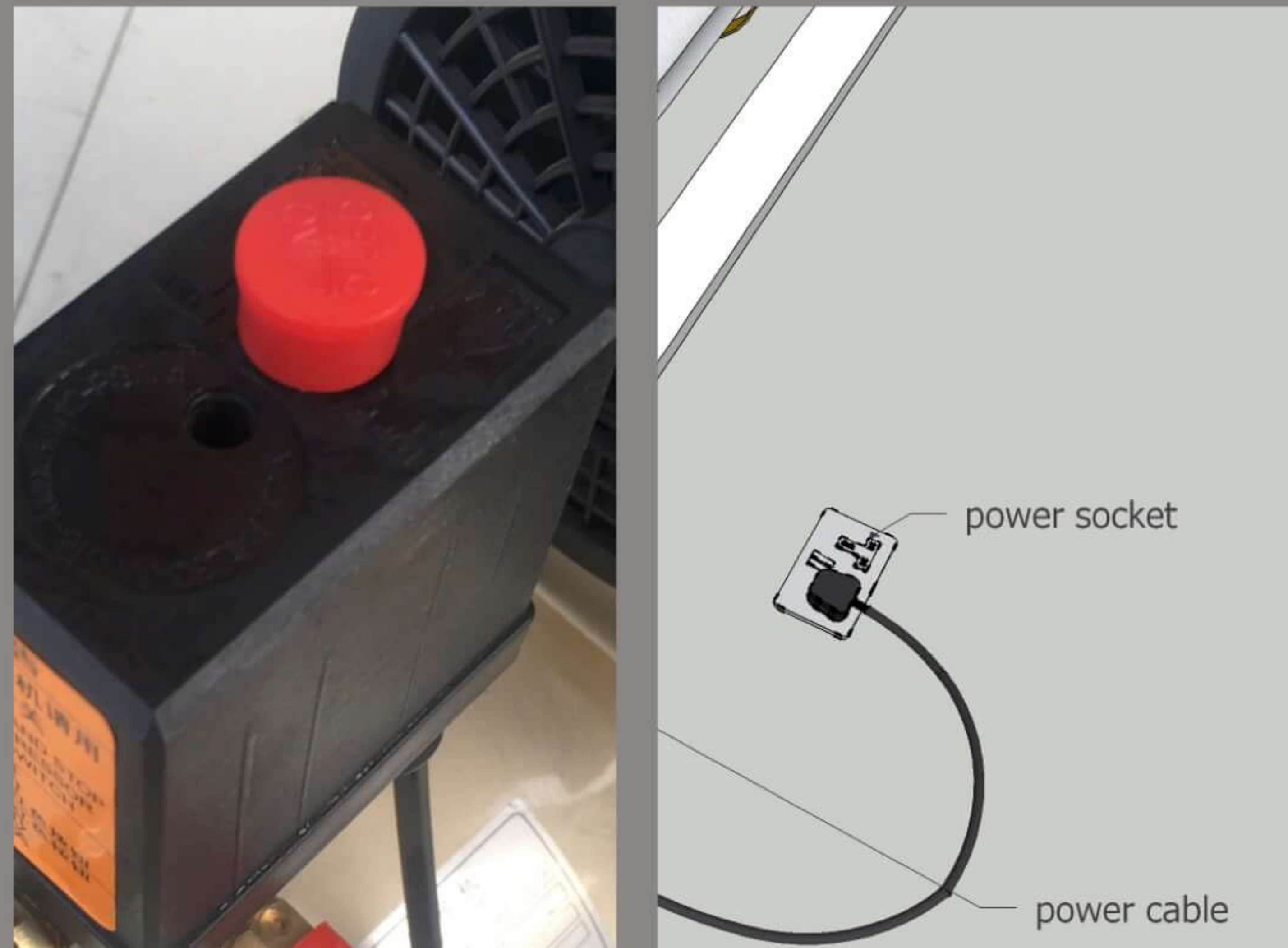
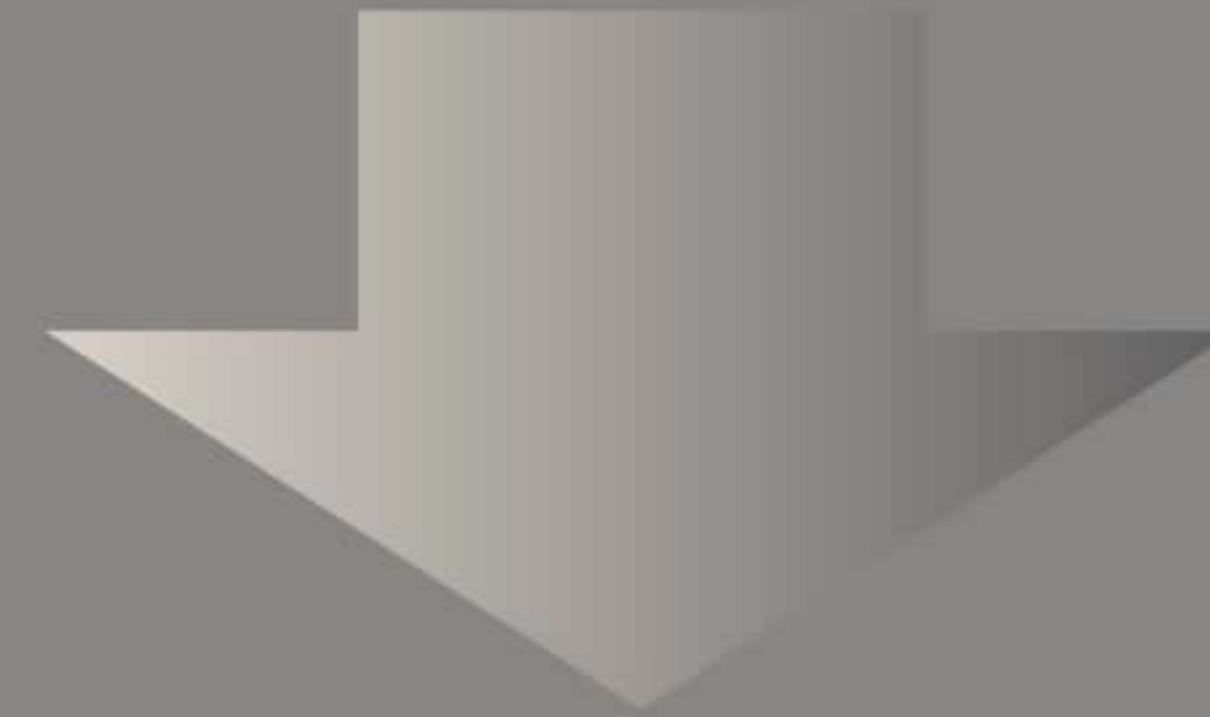
- Take out the air compressor from the package, install four units of rubber feet.
- **Take off the white PVC plug on the cooling fin block**, twist the black filter into the hole, then plug the blue tube into the hole at the bottom of the filter.
- Take out the air tube from the accessory box, then 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!**

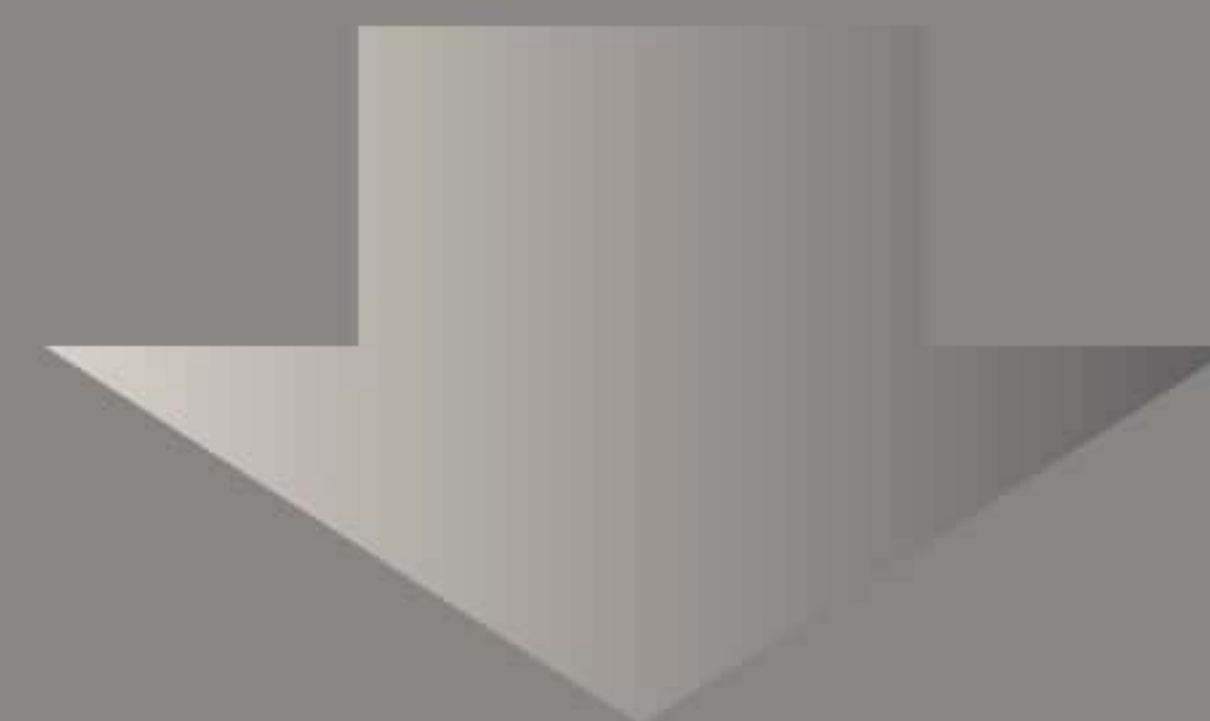


Start Using Air compressor

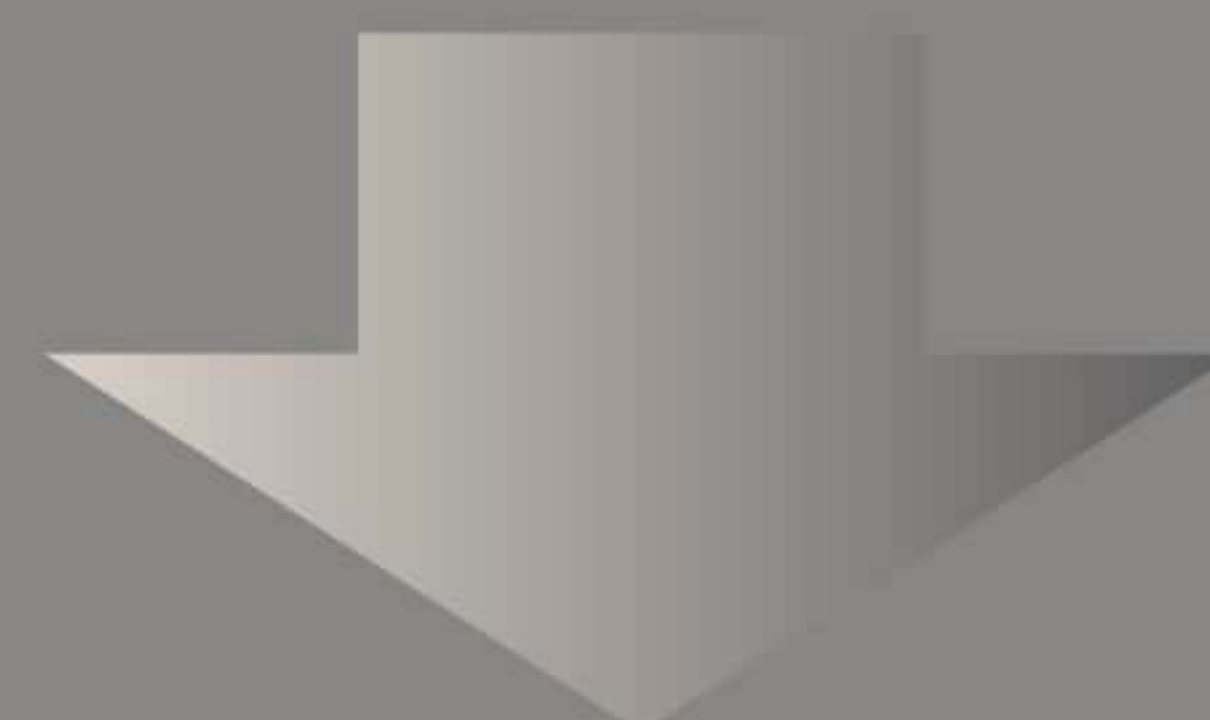
- Ensure the **red hand valve** is staying at the position showed.



- Ensure the **Red button** on the top of the air compressor staying pressed
- Then we plug in the power for Air compressor



- Pull up the **Red button** to start the Air compressor to compress the air.
- 1~2 minutes later, the Air compressor will stop automatically when the pressure coming to around 0.8Mpa.

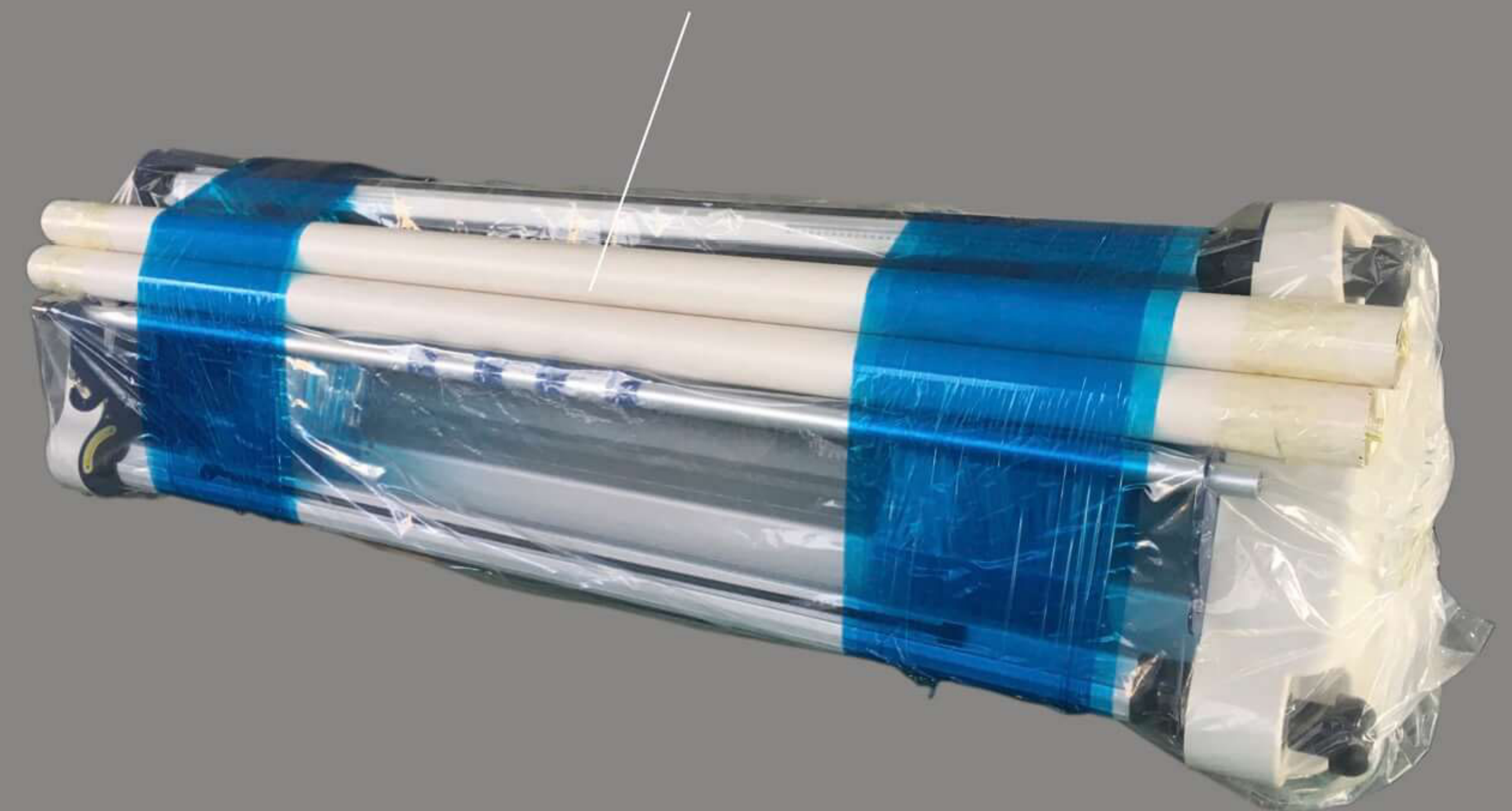


- Twist the **Red handle** valve to the position showed, lead the air pressure to the table roller lifting.

Heating Elements 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
- Take out the heating elements from white PVC tubes, please hold the heating tube when operating, ensure the heating tube not knock by other objects.

Heating Elements



Step 1



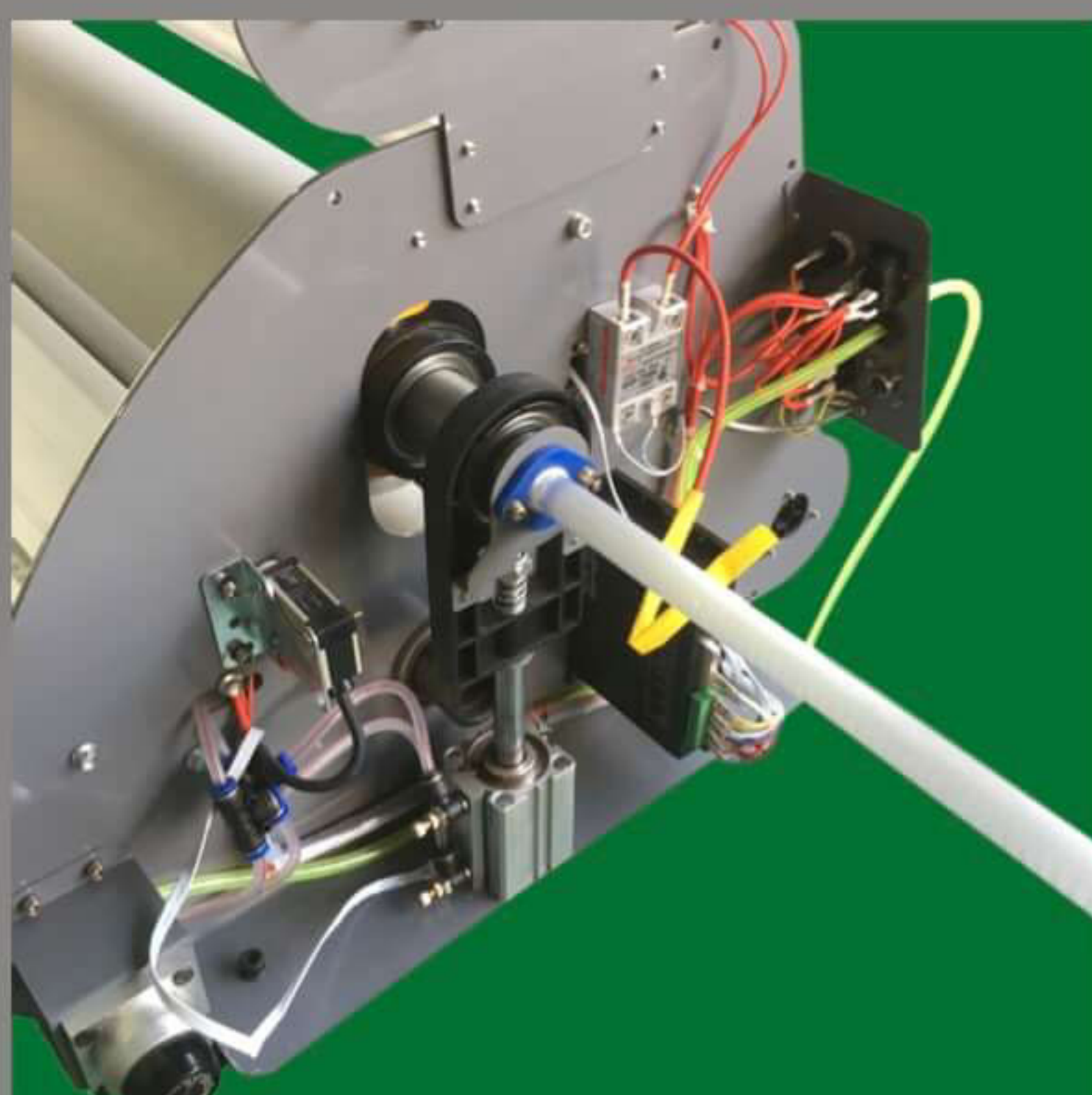
- Remove all the screws on double sides cover with hex socket wrench got from accessory box, then put the covers aside and keep them well.

Step 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 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 4

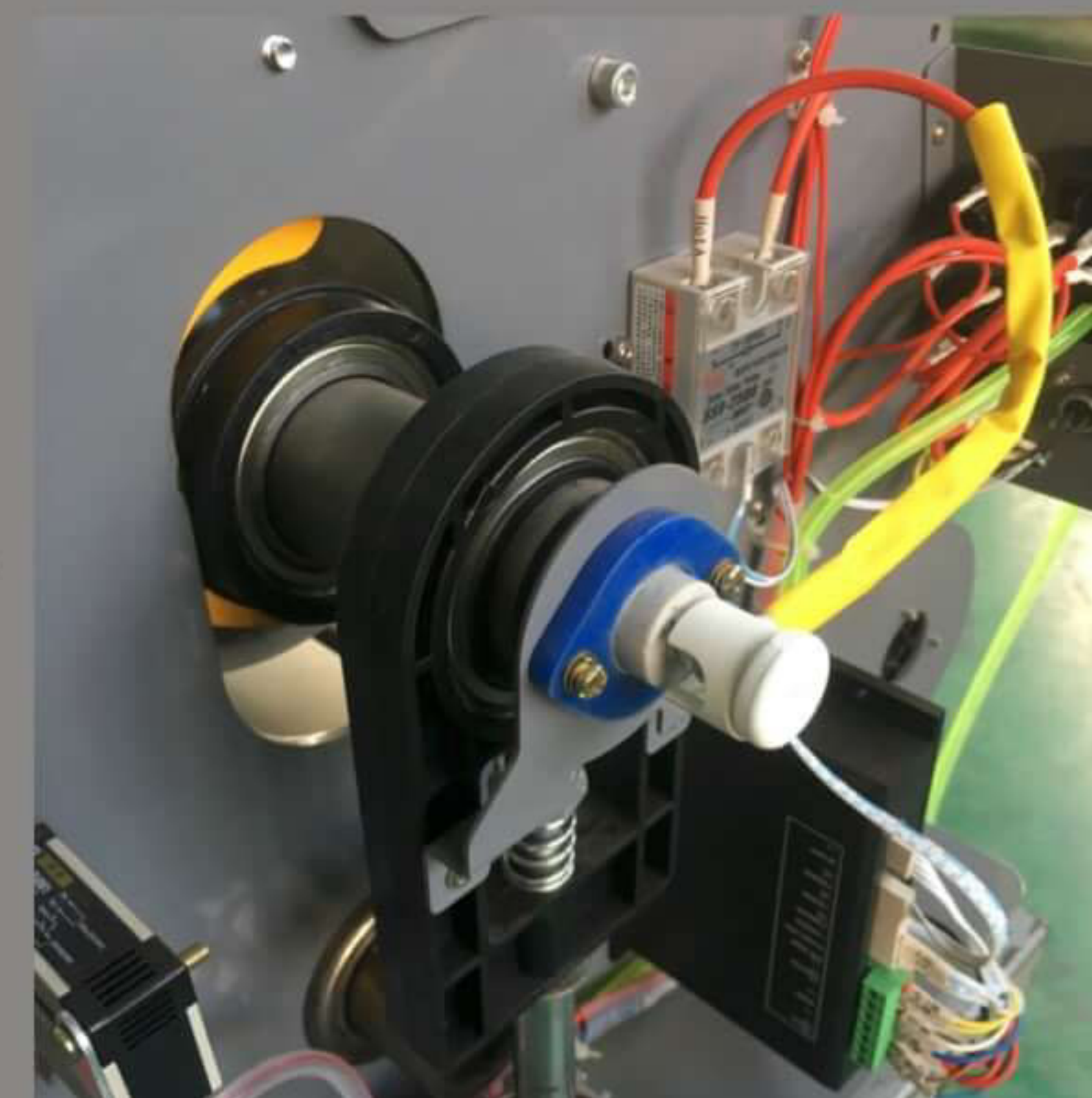
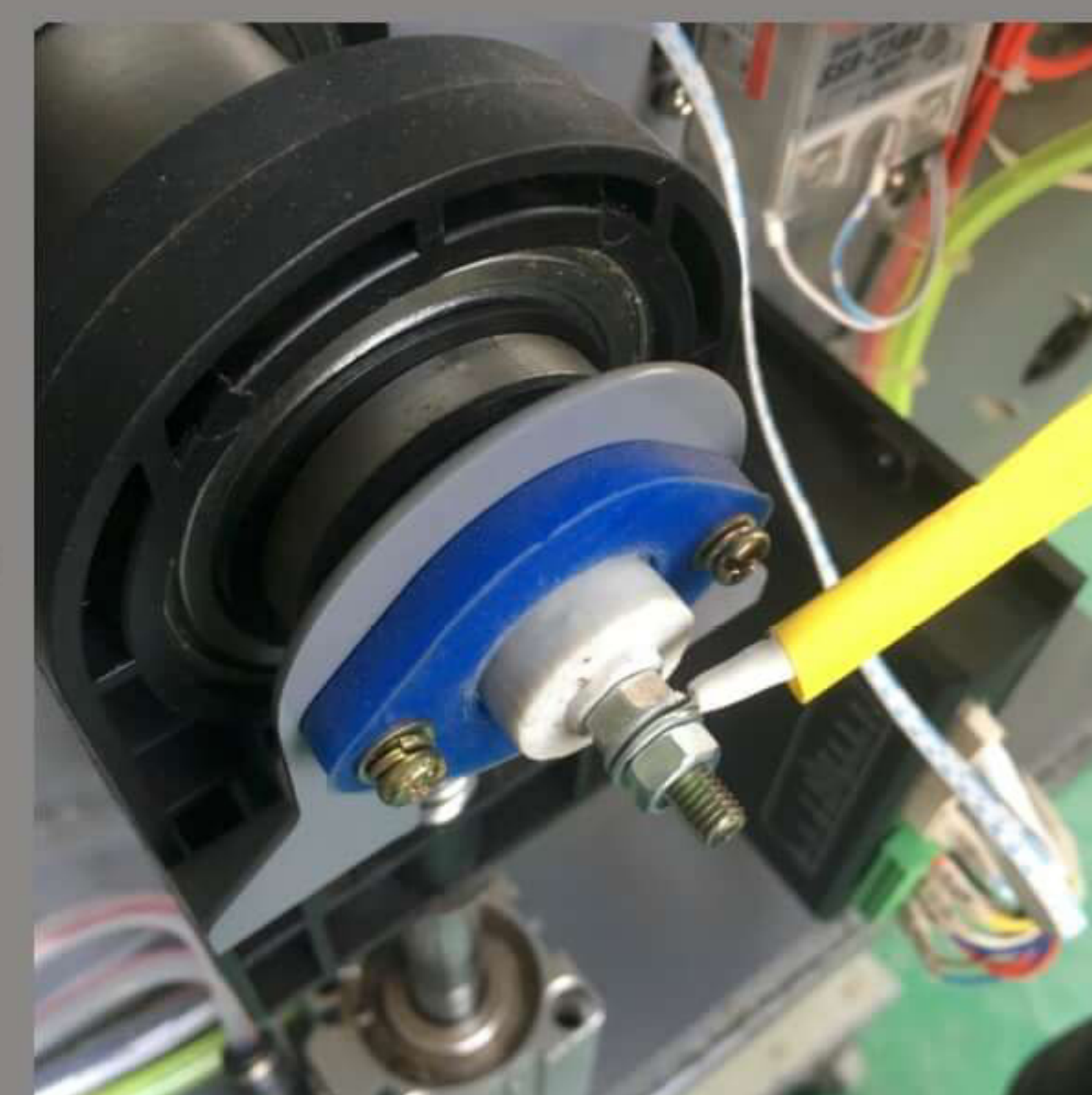


- After plugging in the heating tube will be like the picture showed.

Step 5

- ✦ Using the open-end wrench to twist off the screw outer and flat gasket outer 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 outer, use the two open-end wrench to tighten screw outer and screw inner 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!



Start Using

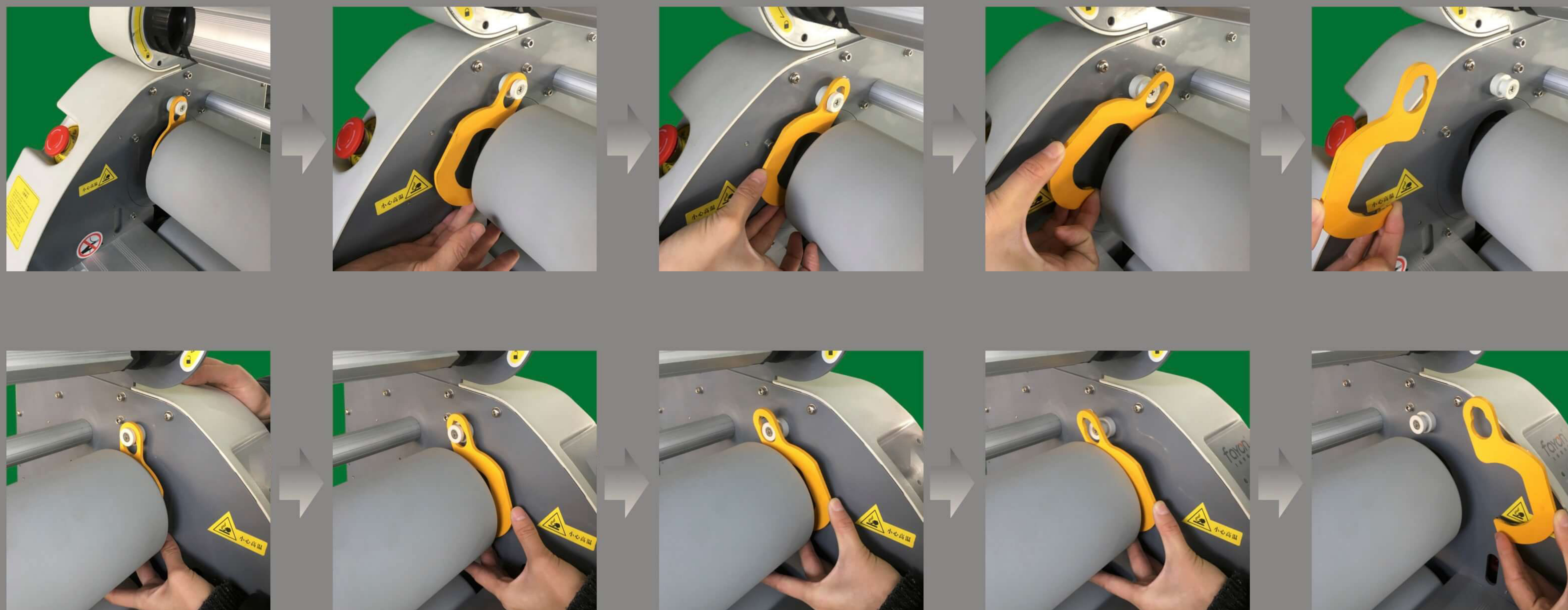
❖ Power on the laminator

- ❖ Push the rocker switch on the back of the machine case, from '0' to 'I'. Then the control panel screen lighting up, showing the greeting words: welcome to use
- ❖ If the screen failed to light up, please check if any emergency stop on both sides is breaking. Just twist the button clockwise to release it. Then the screen will get lighting up.
- ❖ Turn the Pneumatic valve to 'up' position, the up roller will be lifted up.



❖ 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.



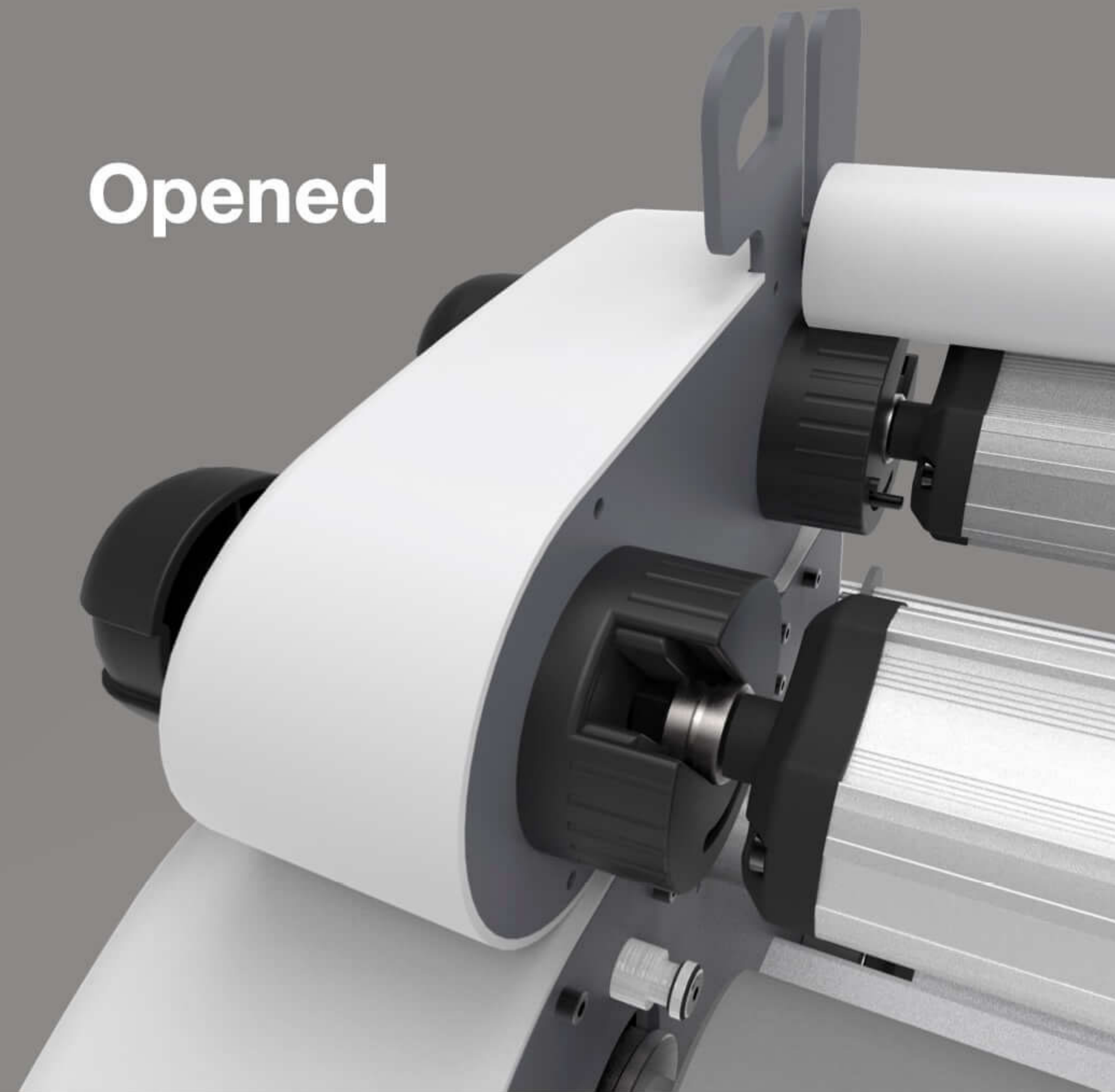
♣ The use of the bracket

- ◆ Turn the black holding bracket shell as indicated by arrows, make the bracket opened until you got a click. Then pull out the media shaft from the slot.

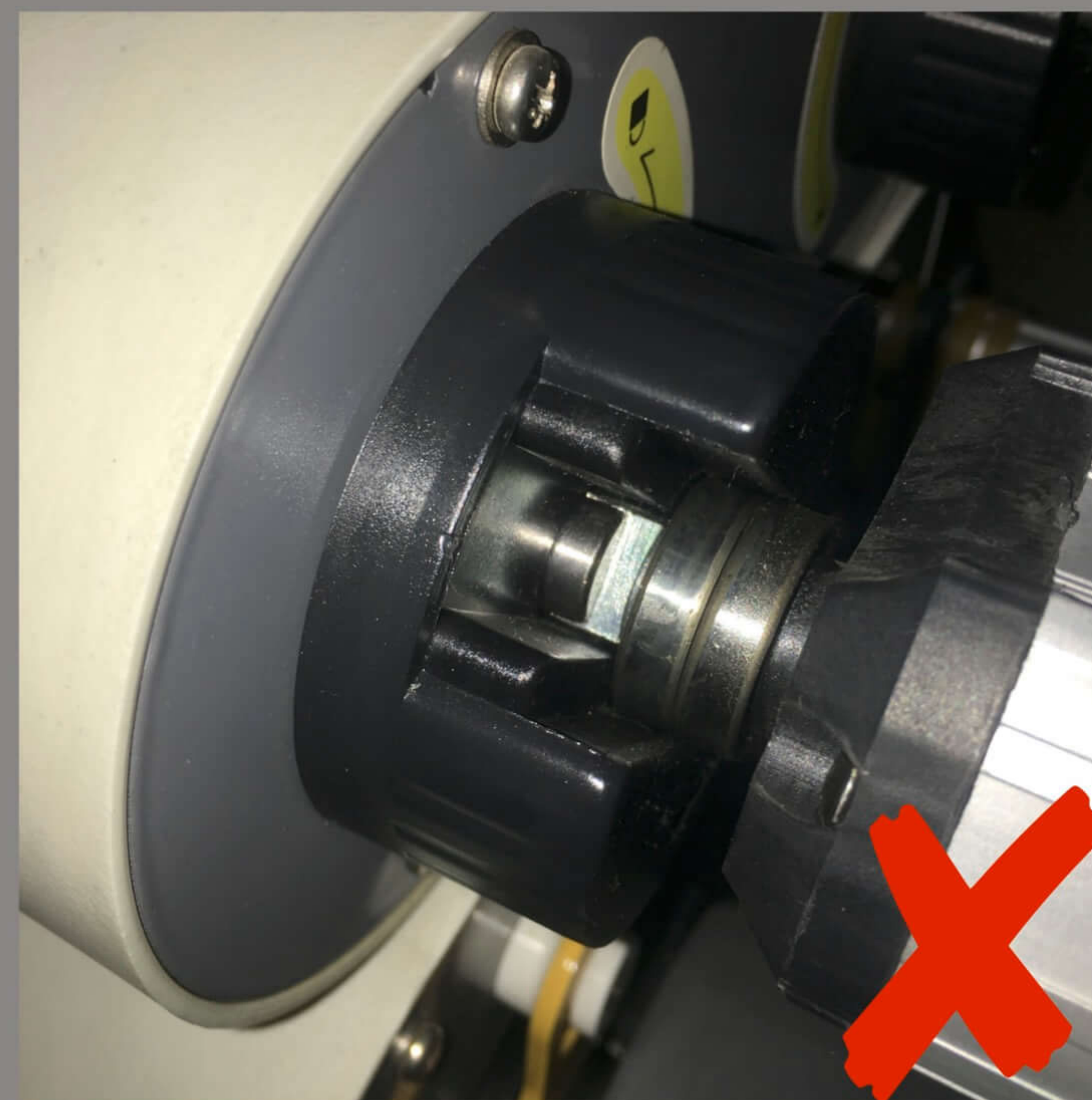
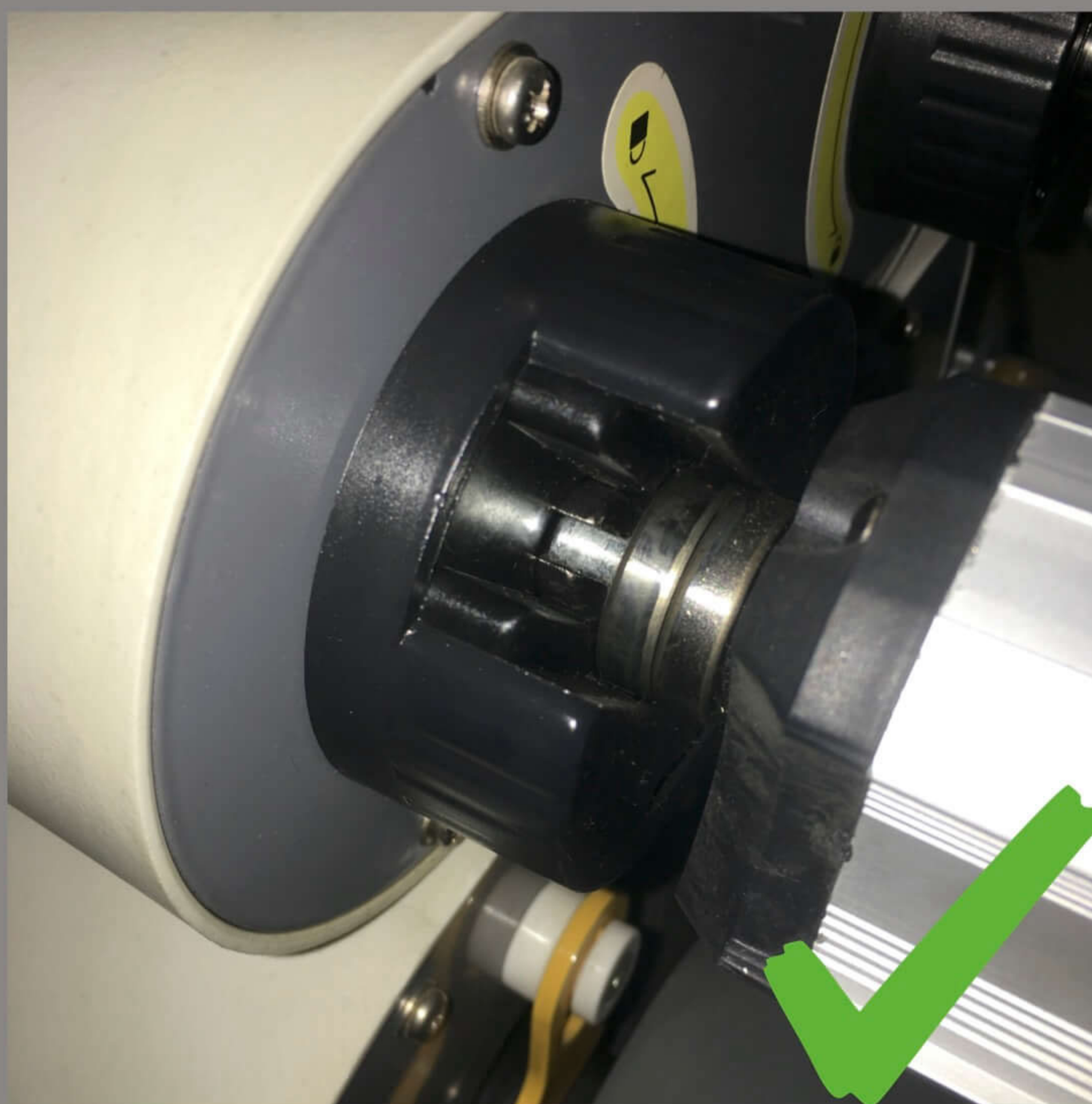
Closed



Opened



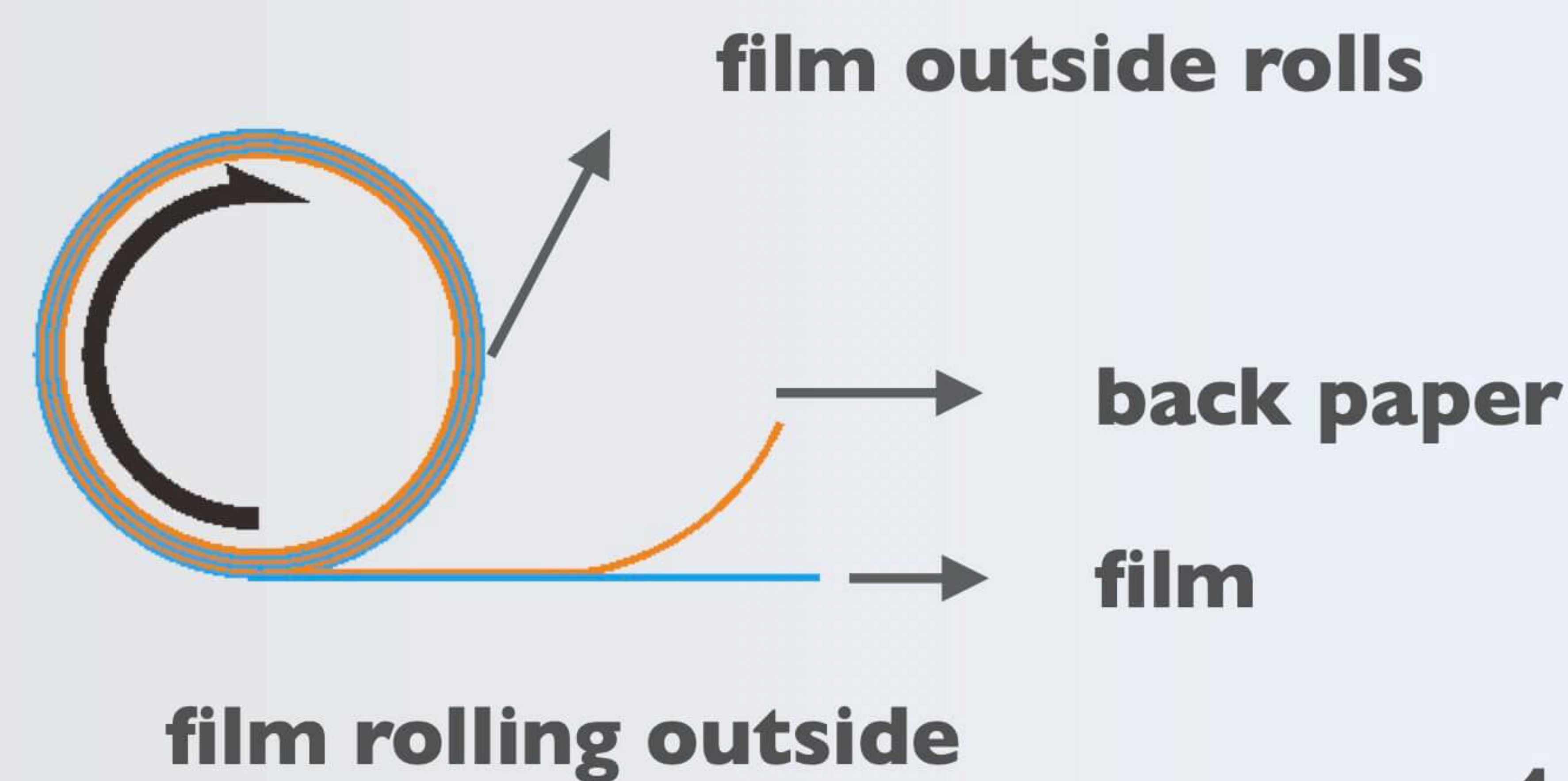
- ◆ Please be attention: Ensure the connection slot opening of shaft end towards the opening of the bracket shell, this habit will be helpful when you put the media shaft back, or you need to hold and twist the heavy loading media shaft to find the right angle of the slot.



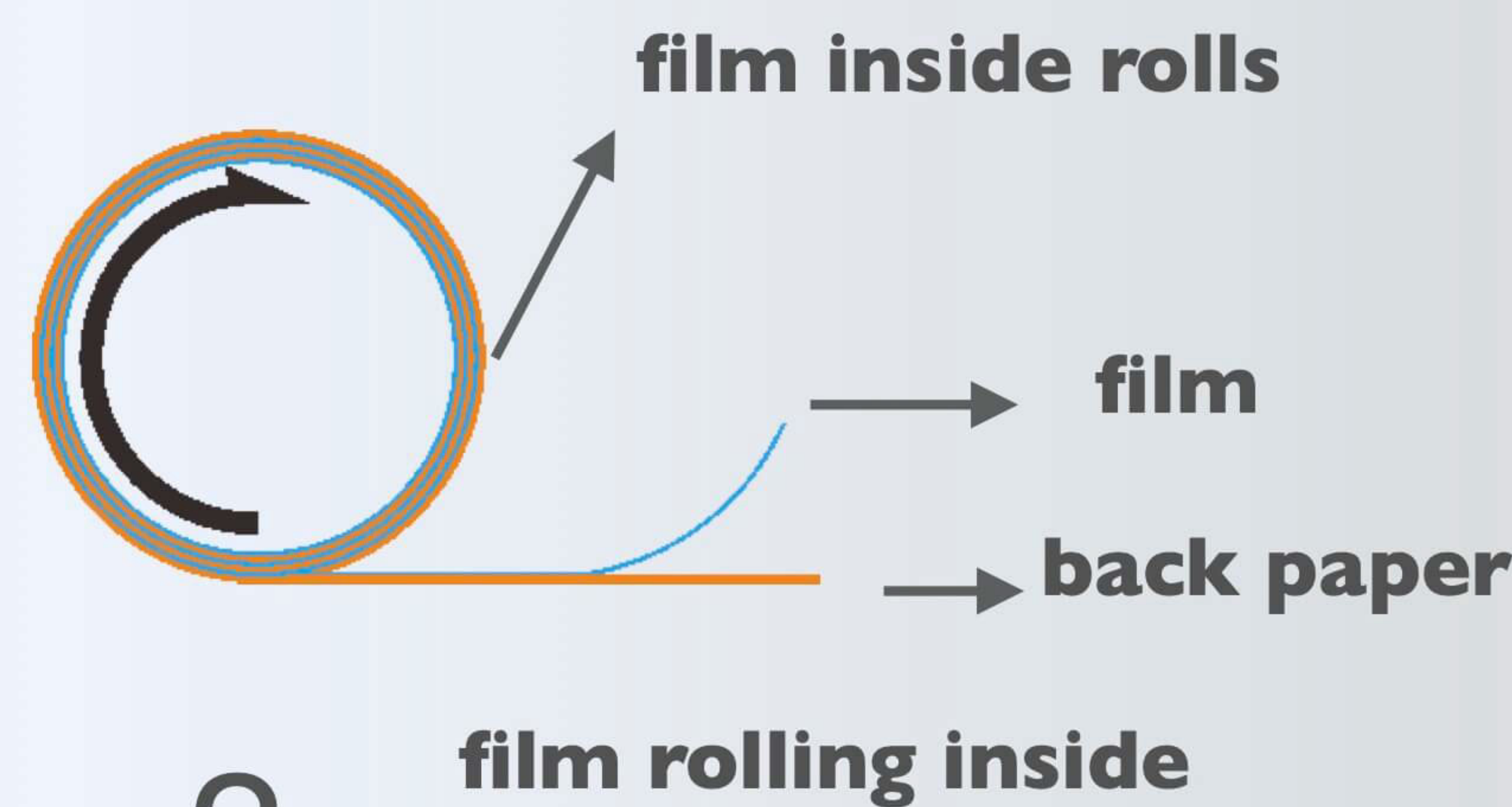
- ◆ After putting the media rod back in the the bracket, please turn the bracket shell back to lock the shaft. This step is important!

Working schematic diagram

There are two types of film rolling on the market:



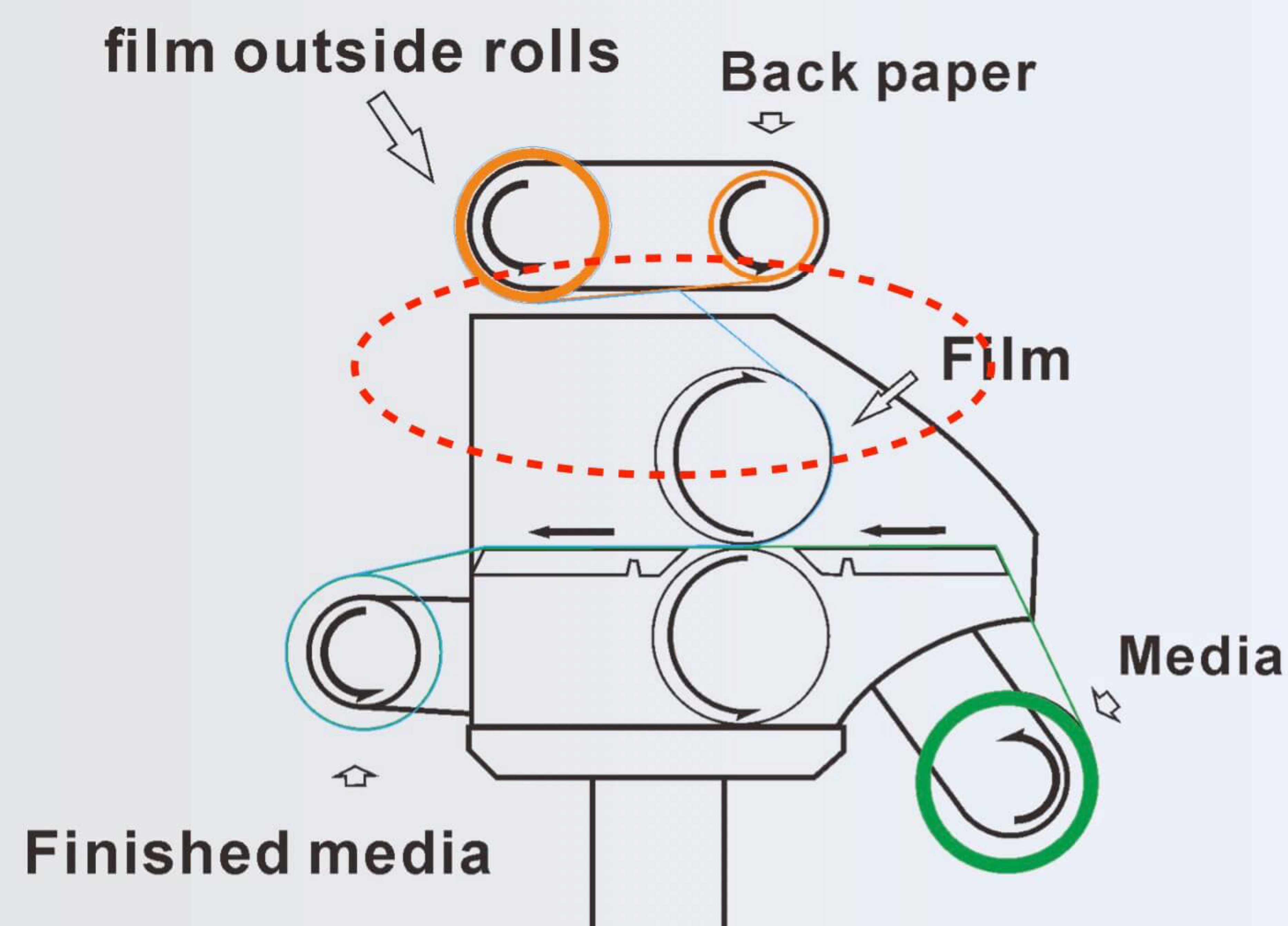
1.



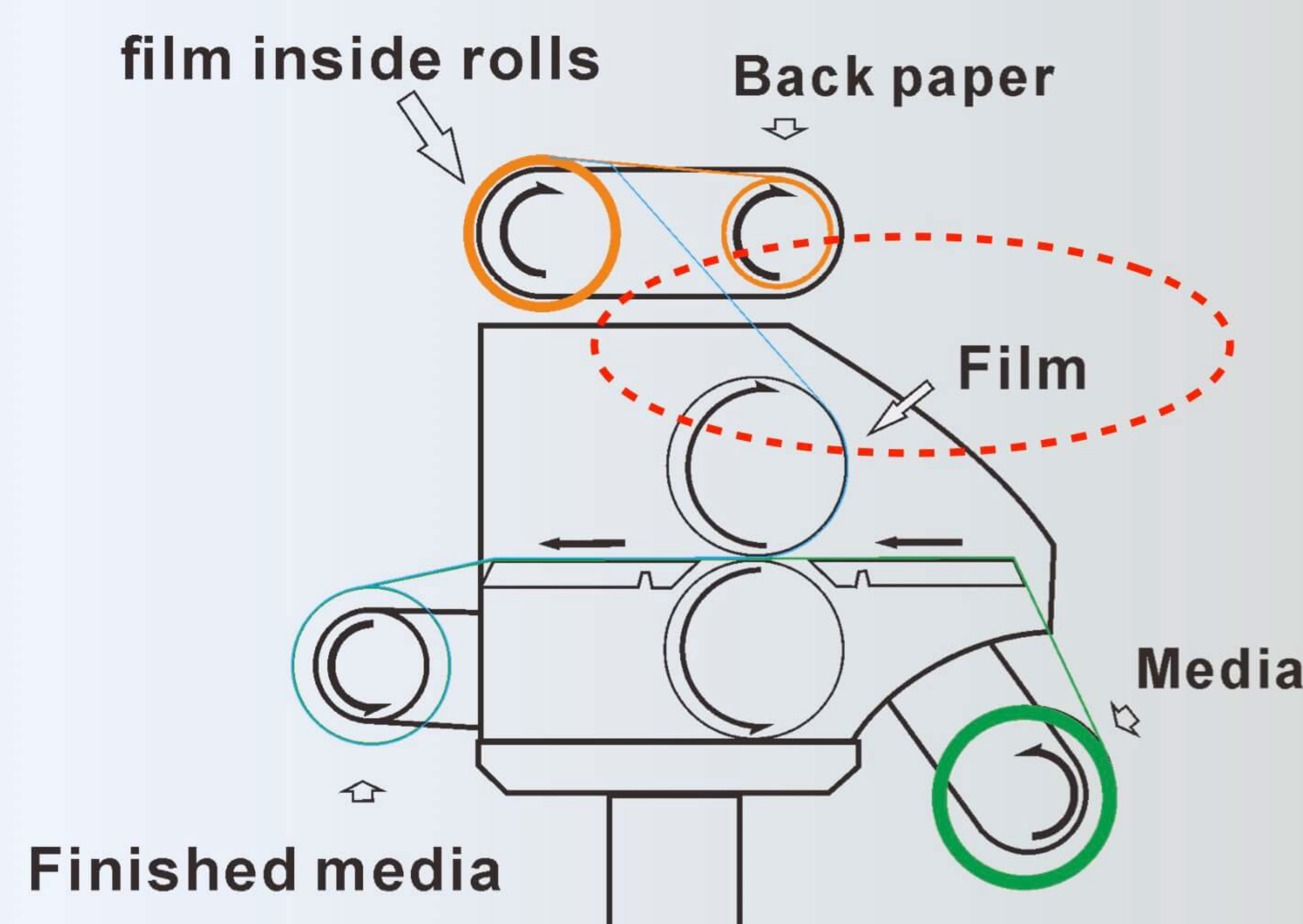
2.

Accordingly, there are two types of film installing as below, please take more attention on the running direction:

1.



2.



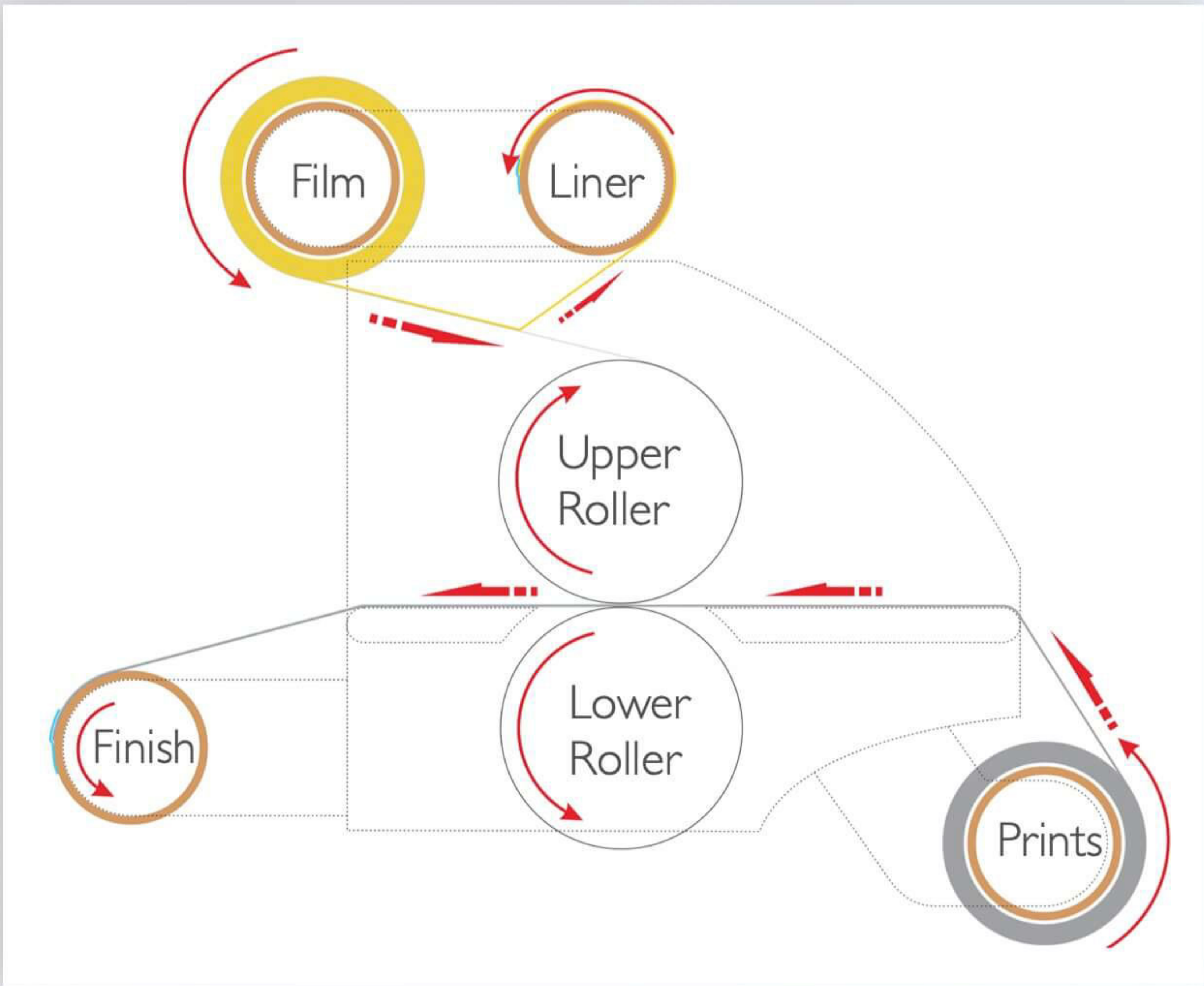
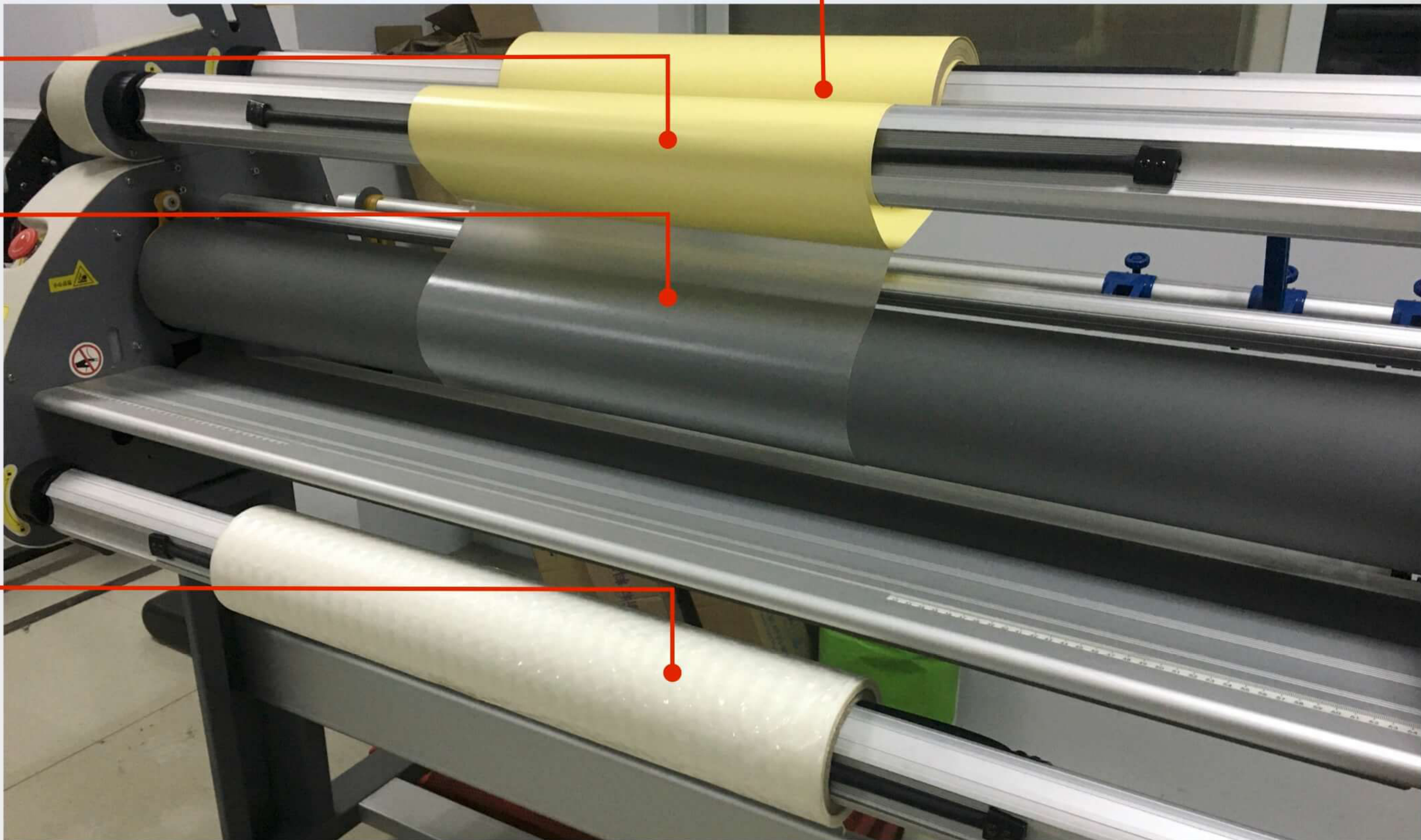
Working Diagram

Film Loading Position

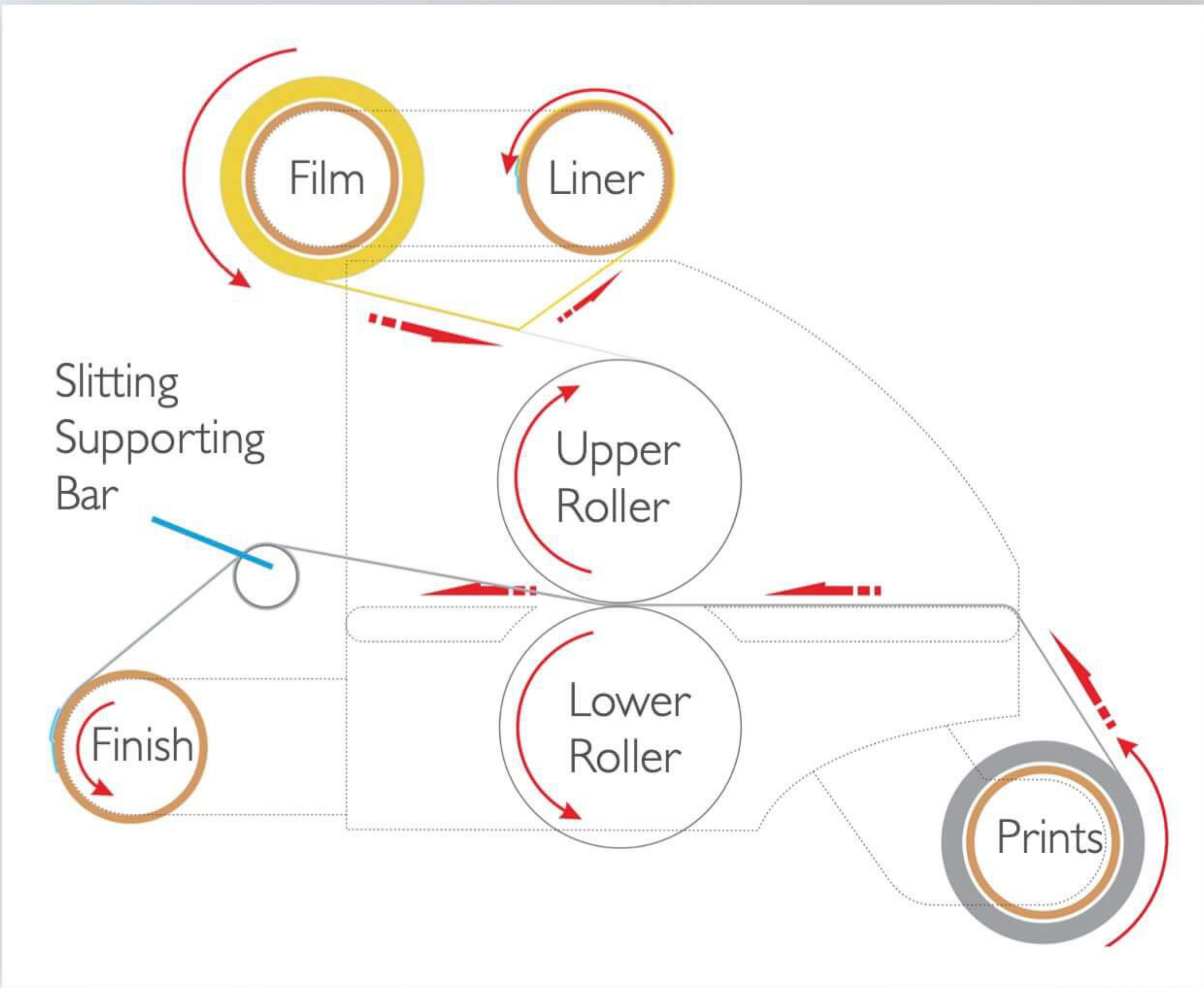
Film-liner Collecting Position

Film

Prints Loading Position



Working Diagram without Slitting



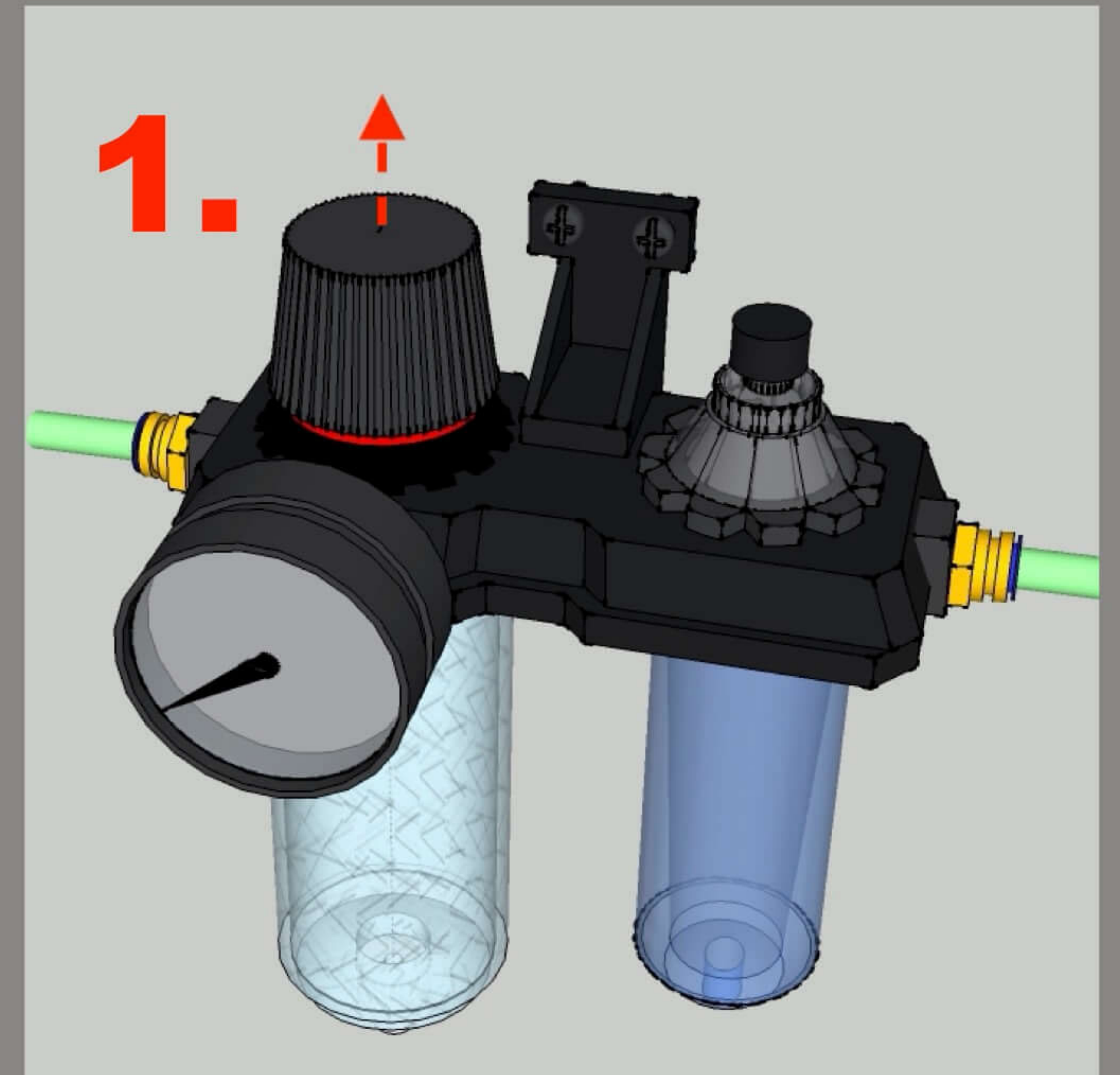
Working Diagram with Slitting

How to adjust the general 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:

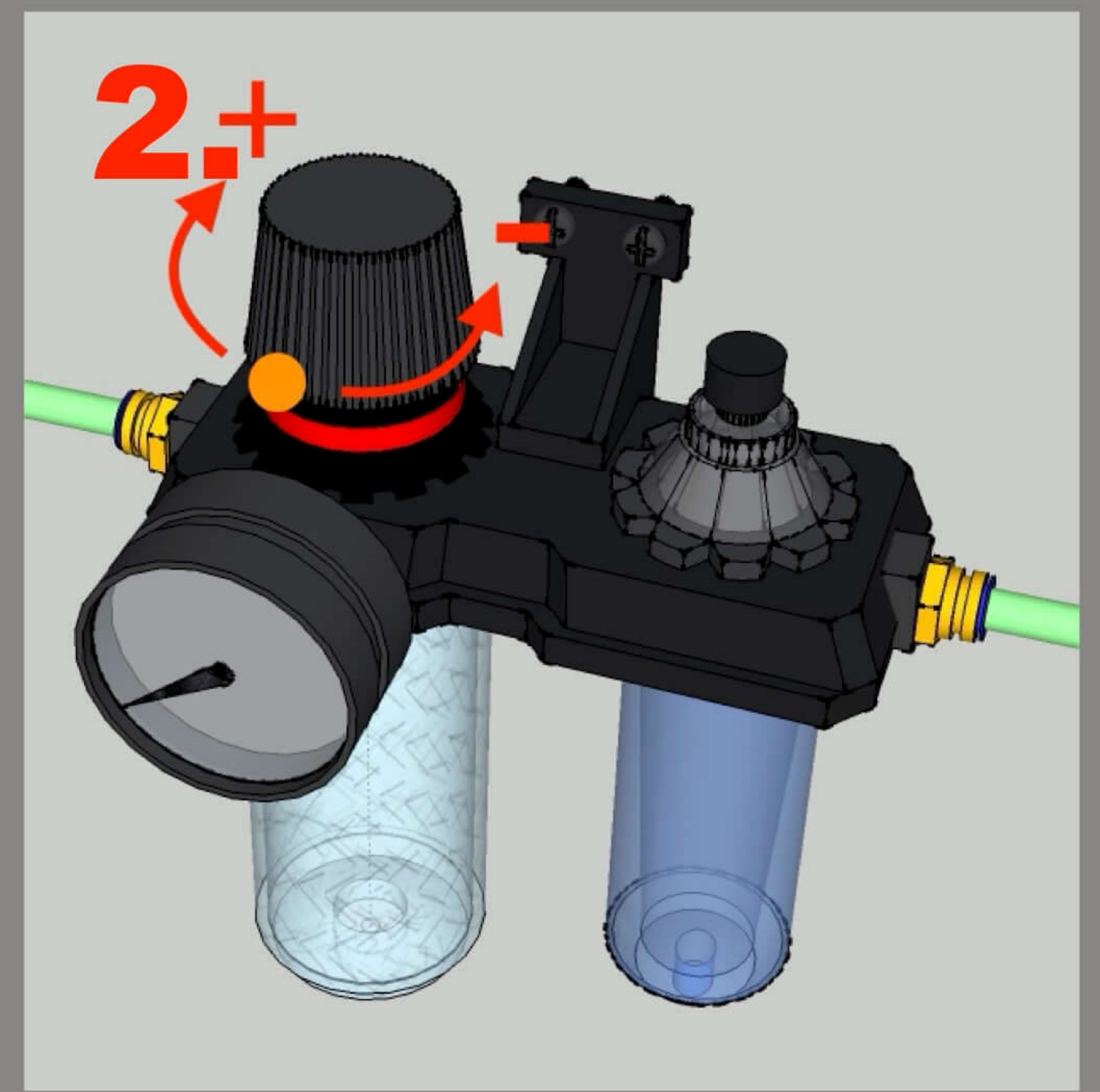
◎ Increasing the air pressure:

- ▶ 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.



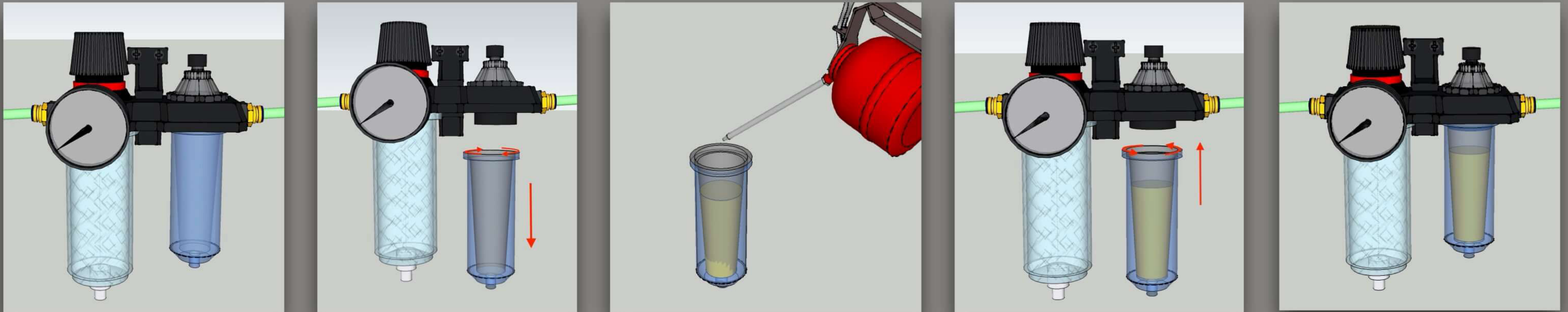
◎ Reduce the air pressure:

- ▶ 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

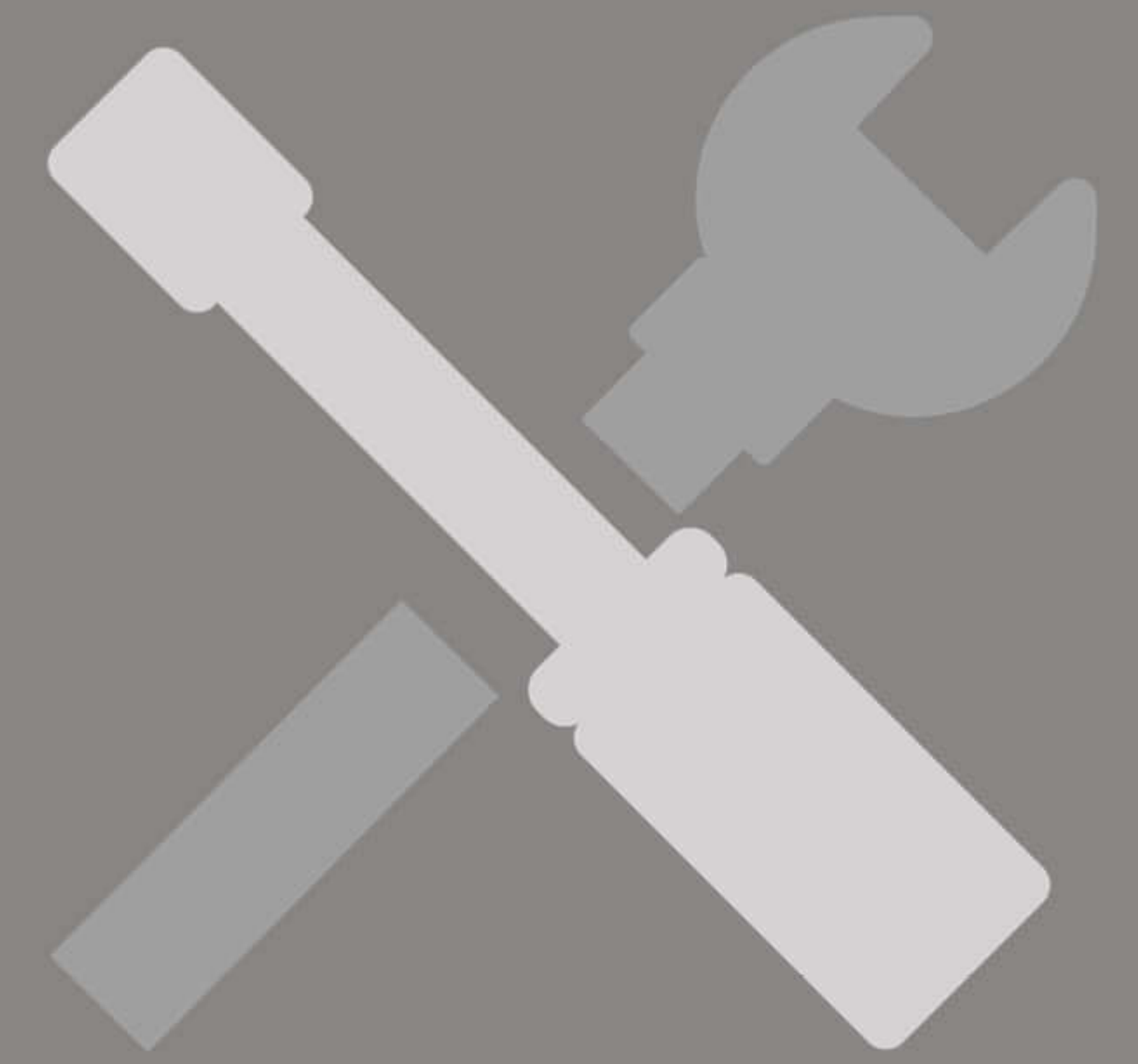
- ▶ First time using the oil-water separator, please well noted to add liquid lubrication oil into the reservoir. Like the pictures below:



- ▶ (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.



Faulty Shootings



- ❖ 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.