Vacuumsub A4

ORIGINING INSTRUCTION
Manual

Solution to your small to medium productivity demands of
3D vacuum sublimation(film) printing

SUN-FLY®
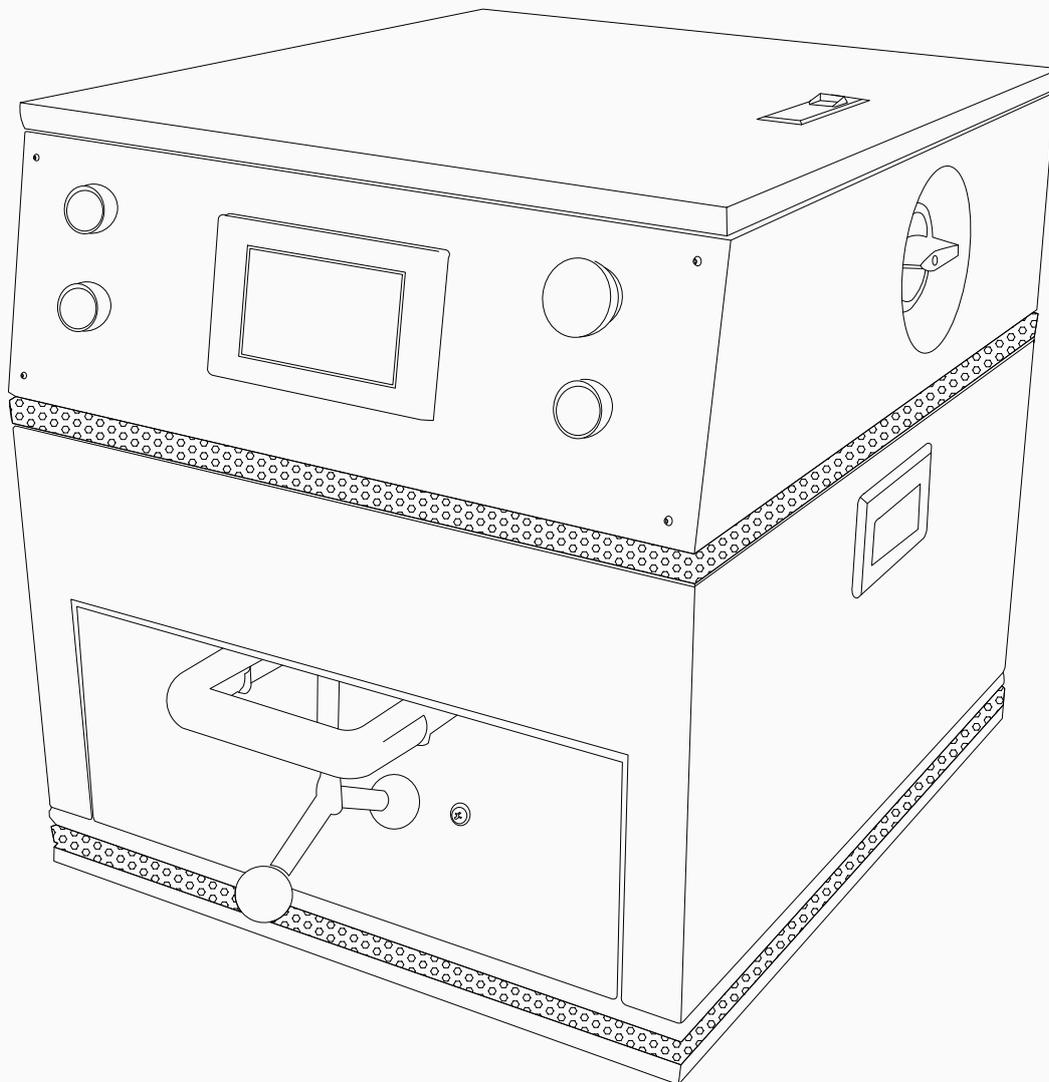
Contents

IMPORTANT INFORMATION

Please read this manual to understand the usage before any operation on the vasuumsub A2/vacuumsub A3.

This manual includes product introduction, operating instructions, and specifications. SUN-FLY Internation Business Development Ltd. maintains a policy of continually improving its product line and some illustrations and descriptions may vary from the machine your own.

This Vacuumsub A2 / Vacuumsub A3 is used to print on the surface of sublimation blank phone cases.

BRIEF INTRODUCTION

Curve & Multiple-Surface Objects Dye-Sub Printing

The Vacuumsub A2/ Vacuumsub A3 brings you more possibilities of printing with curve or multiple-surfaces sublimation blanks. This machine has a pneumatic drive pump built in that generates a vacuum environment for the heat transfer process, which benefits the sublimation heat transfer printing quality and dramatically enhances effciency.

3D Objects Printable

Vacuum film fully covers on printing objects.

Better Image Quality

Heating tubes evenly apply heat on to the surfaces.

Efficiency

Easy panel operation.

This machine must be installed indoors to avoid rain and wind, which may affect the service life of machine. It must be installed in the following environment: Ambient temperature: 5-40 ℃. Relative humidity: 50% (40oC),90% (20oC), . Altitude: Maximum 1000m Transportation and storage temperature: -25 - +55 ℃ and for short periods (24h) up to 70℃ Electric supply tolerances: voltage +/-10%, frequency +/-1 Hz

Noise declaration: For a sound power level: Lwa= 70 dB (measured value) Associated uncertainty K = 3 dB Measurement made in accordance with EN ISO 3746:1995. The Figures quoted are emission levels and are not necessarily safe working levels. Whilst there is a correlation between the emission and exposure levels, this cannot be used reliably to determine whether or not further precautions are required. Factors that influence the actual level of exposure of the workforce includes the characteristics of the work room and the other sources of noise etc. i.e. the number of machines and other adjacent processes. Also the permissible exposure level can vary from country to country. This information, however, will enable the user of the machine to make a better evaluation of the hazard and risk.

SAFTY INFORMATION

⚠ **DANGER**	**Electric**
HAZARDOUS VOLTAGE. **Disconnect Power before servicing.**	This machine contains high voltage elements. To prevent electric shock, do not open the machine cover when the machine is on and in use. Additionally, do not open the drive or control devices even if the power is off when the power cord is plugged in.

Make sure the machine is power off and use a multi-meter to determine if the voltage has dissipated before conducting any wiring adjustments or inspection.

Ensure the machine is grounded

Make sure wiring and other machine inspections are conducted by qualified technicians. Any contact surface of human body should be completely dry to avoid electric shock when operating the machine.

Fire

The internal temperature of the running machine is higher than 120℃, please make sure keep all flammable materials away from the machine.

In the event of a machine failure disconnect the power supply, manually remove the material loading pallet to avoid potential fire risk.

A machine operator must be present when machine is turned on.

Others

Please use proper lifting tools to move the machine.

Do NOT stack, tilt or invert machine crate.

Do NOT expose the machine to rain or moisture.

Do NOT turn on or operate the machine if it is damaged, missing components, or incorrectly configured.

Do NOT use the machine in explosive environment.

⚠ **CAUTION** **Avoid abrasion burn.** **Always Wear gloves.**	Make sure wearing heat resistant glove to prevent from hurting before any operation on the loading board.

Package contents

Please check if any damages are made during shipping after receiving the machine package. If the appearance of the package, machine or the accessories are damaged, please file a written claim notice to the carrier immediately.

You may check all the accessories and parts according to the packing list, if any of the accessories are missing, please contact the seller immediately.

1.Fuse
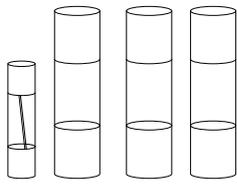
2.Ventilated aluminium rod
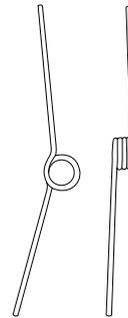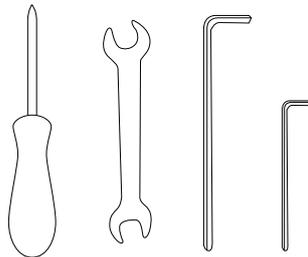
3.Spring

4.Tools

3.Screws
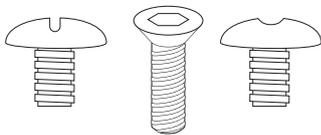
5.Capacitance
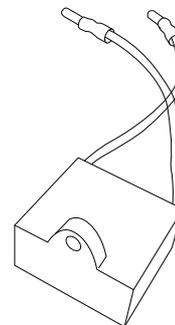
6.Metal board
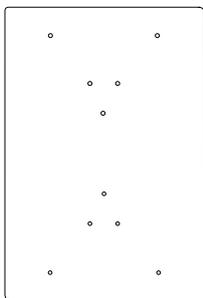
7.Thermal Tubes

1. Fuse	2. Ventilated aluminium rod
3. Spring	4. Tools
5. Capacitance	6. Metal board
7. Thermal Tubes	

OVERVIEW

Model	SFS-VSF07
LCD Display	Resistance screen
Power Supply	110V/220V 24A/12A
Weight	50KG
Power	2700W
Pressure	-0.08mPA
Body Size	745 x 525 x 575mm
Operating Area Size	405 x 370mm
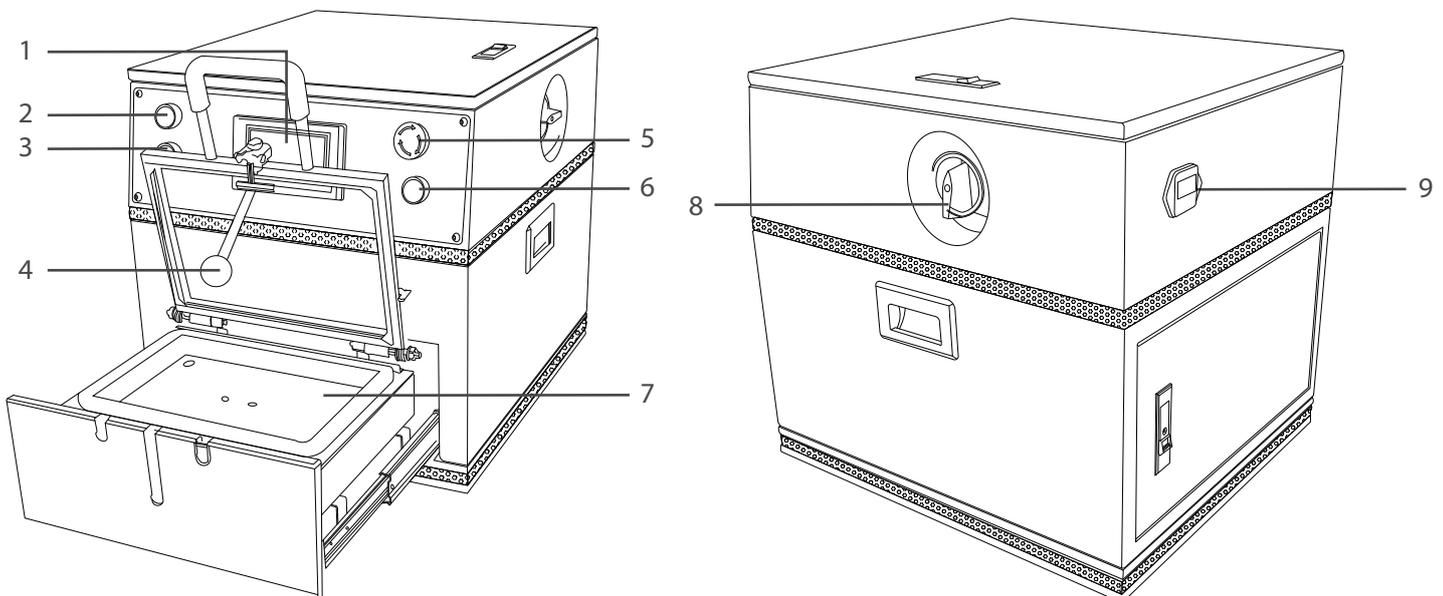
1.Control Panel	2.Power On Button
3.Power Off Button	4.Crank Handle
5.Emergency Button	6.Start Button
7.Printing Jigs	8.Power Switch
9.Power Connector	

Mounting
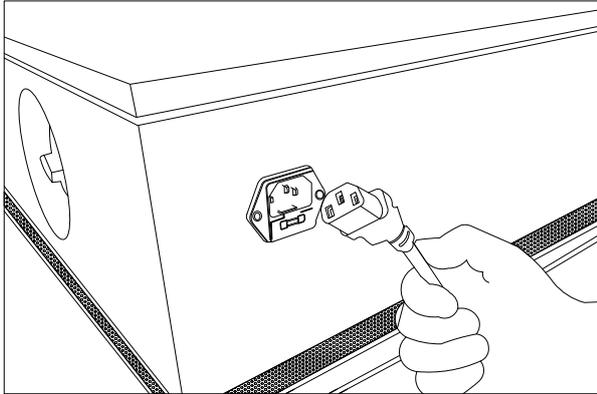
Step 1
Find the plug-in socket at
the back of the machine
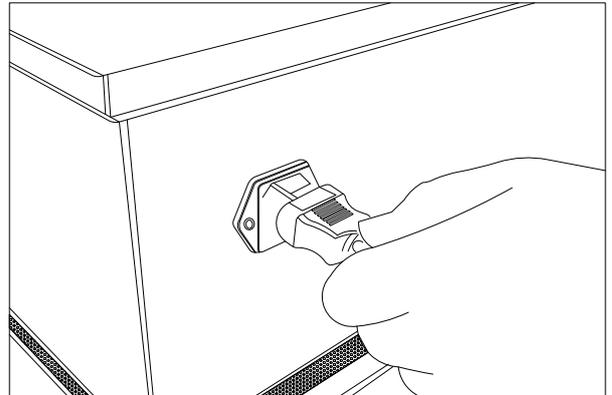
Step 2
Push it into the socket
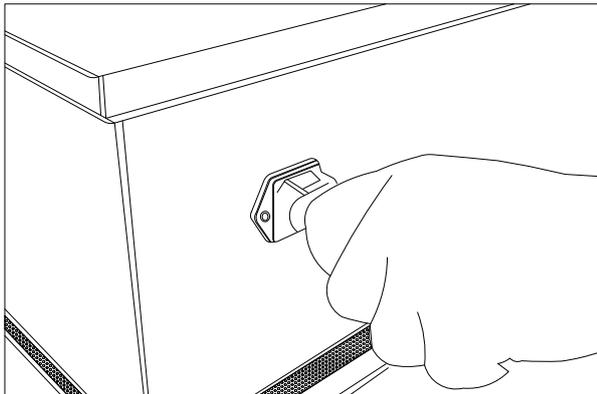
Step 3
Main power connector
finished

Phone case jig install
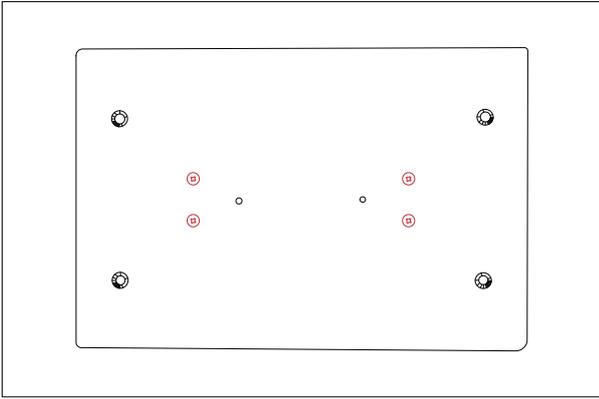
Step 1

Tighten the screws in accordance with the corresponding red location of screws.
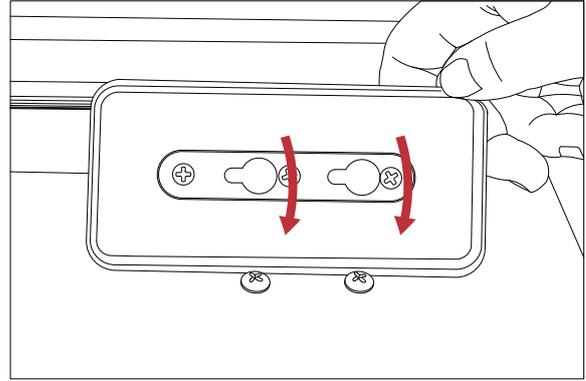
Step 2

Position the phone case jig
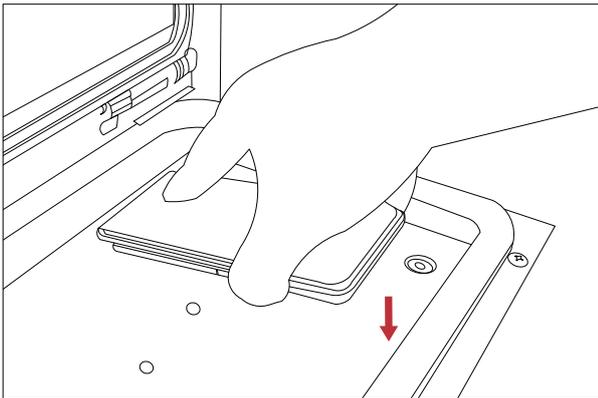
Step 3

Push down the jig
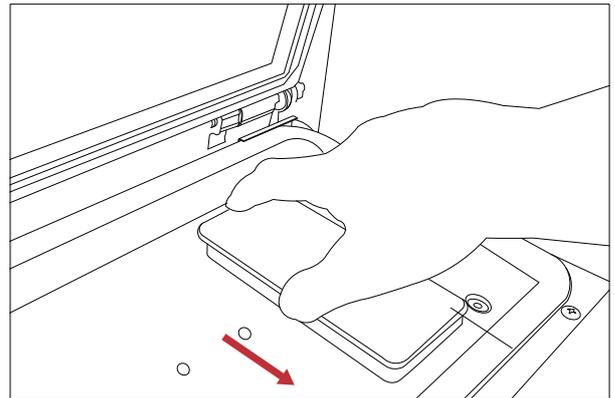
Step 4

Push the jig towards to the machine
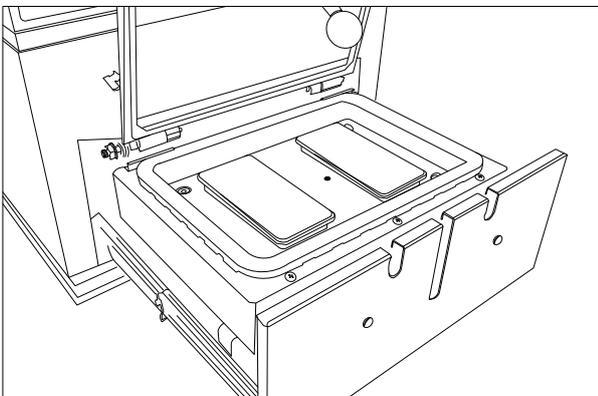
Step 5

Complete View

Mouse jig install
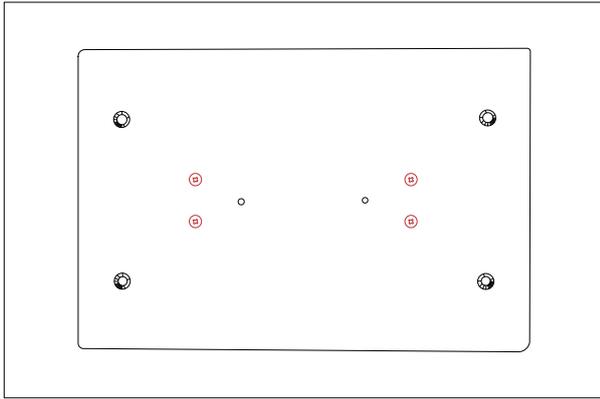
Step 1

Tighten the screws in accordance with the corresponding red location of screws.
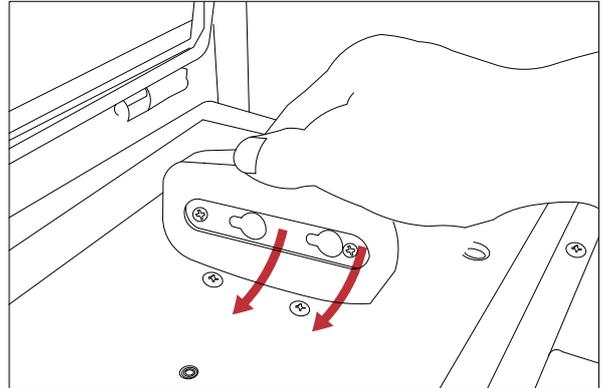
Step 2

Position the mouse case jig
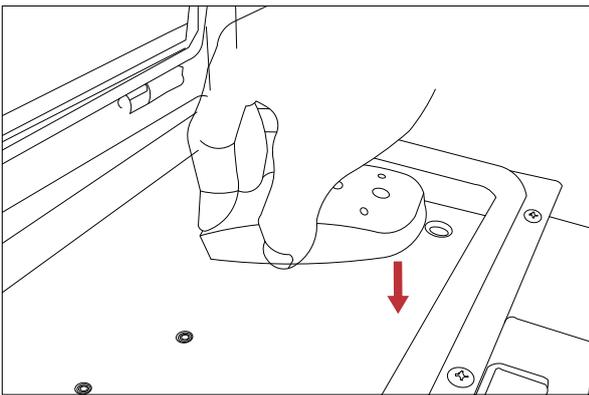
Step 3
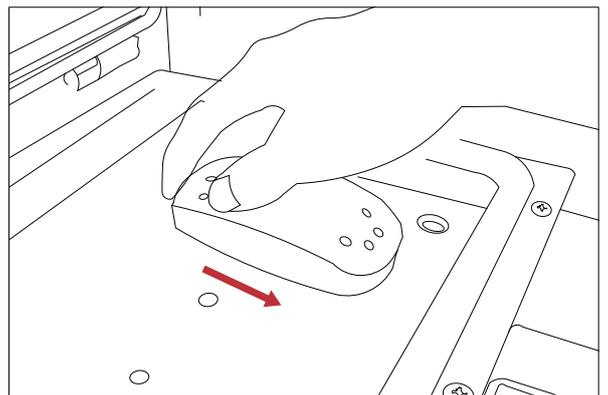
Push down the jig

Step 4

Push the jig towards to the machine
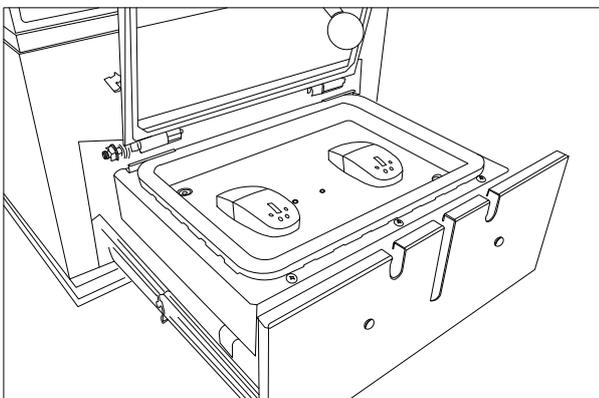
Step 5

Complete View

Lunch box jig install
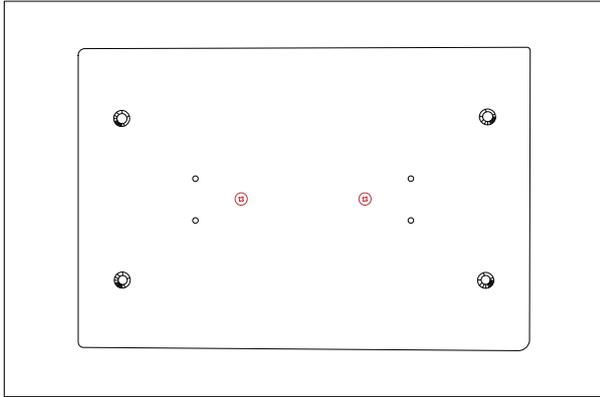
Step 1

Tighten the screws in accordance with the corresponding red location of screws.
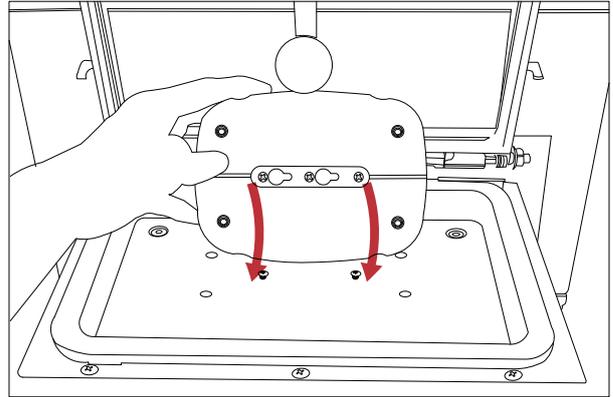
Step 2

Position the mouse case jig
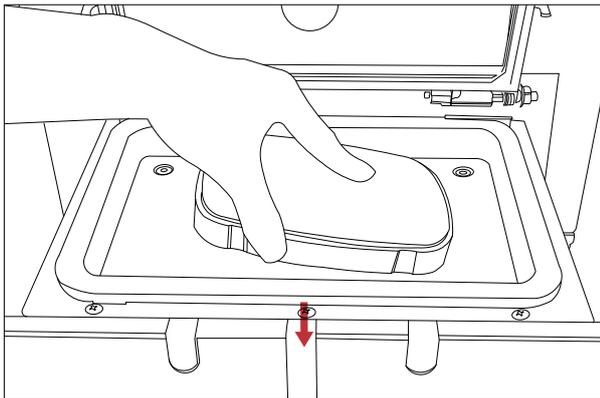
Step 3

Push down the jig
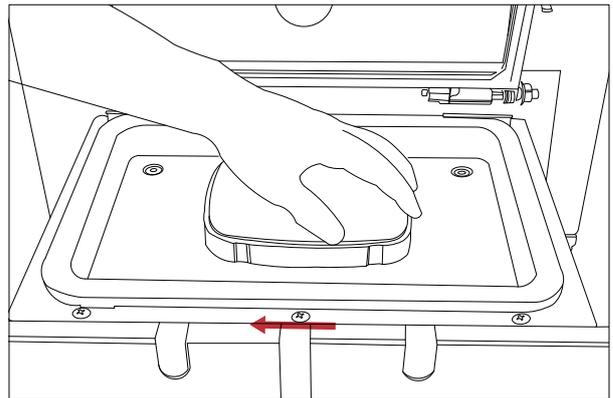
Step 4

Push the jig towards to the machine
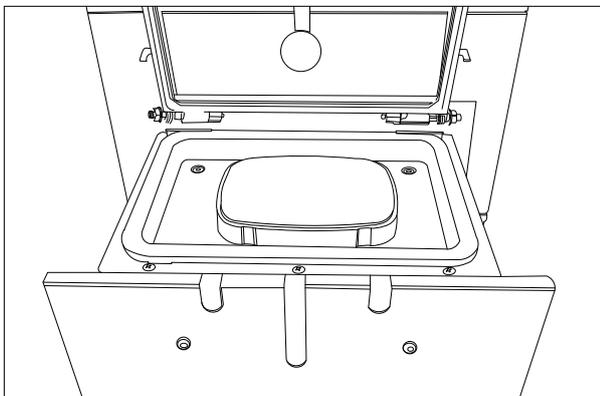
Step 5

Complete View

Emergency Button

Press the emergency button to stop the machine.
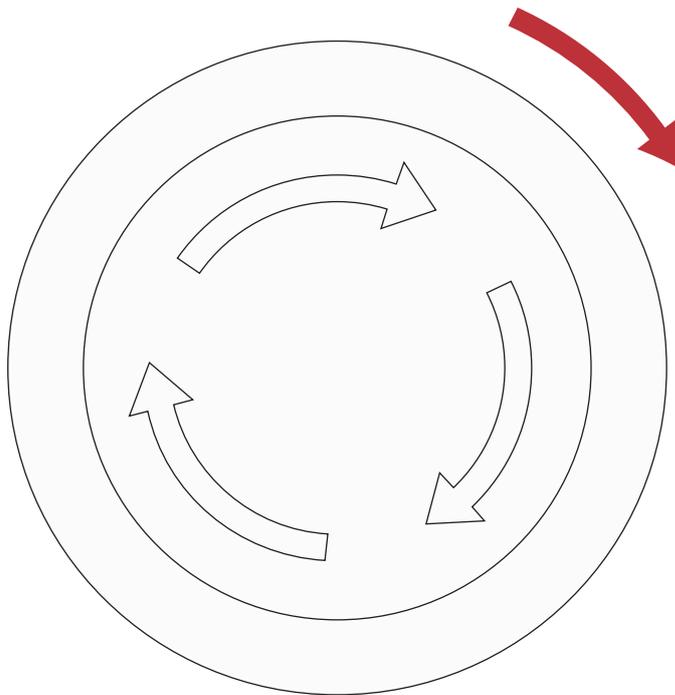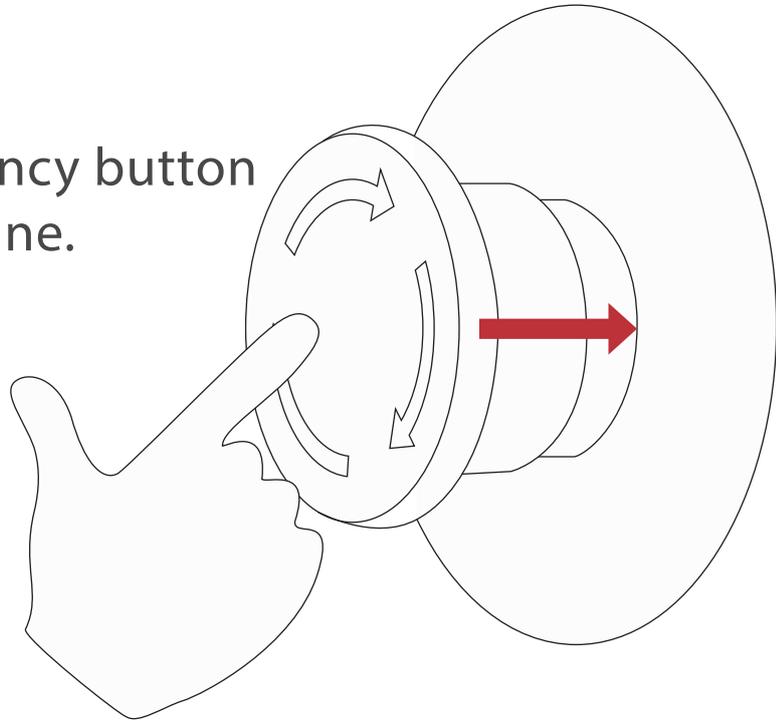
Clockwise rotate the emergency button to restore the machine operation

Power Switch
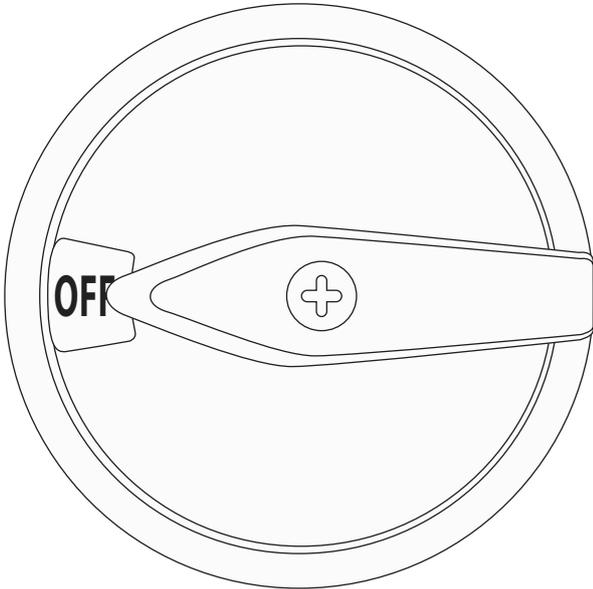
Turn off the power with the switch upward.
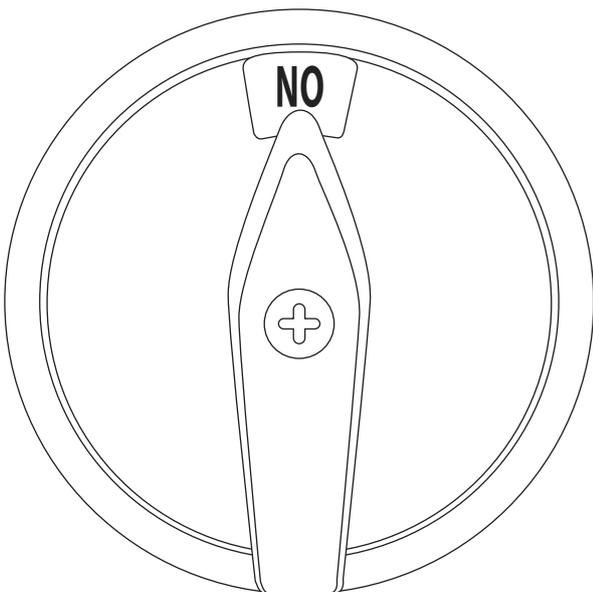
Turn on the power with the switch towards to right.

CONTROL PANEL OVERALL
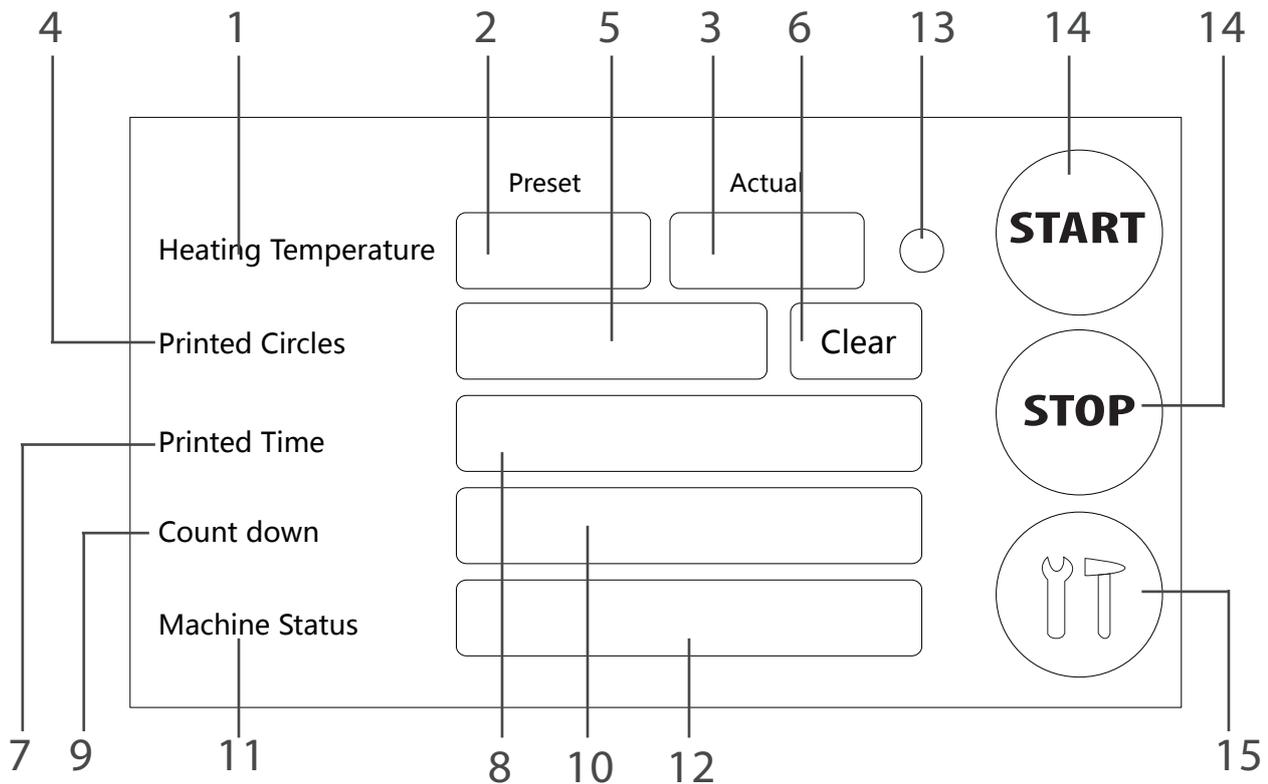
1. [Heating Temperature] icon	2. Temperature Setting Frame
3.Actual Temperature Frame	4. Printed Circles icon
5. Printed Circles Setting Frame	6. [Clear] Option
7.[Printing Time] icon	8. [Printing Time] Frame
9. [Count down] icon	10. [Count down] Frame
11. [Machine Status] icon	12. [Machine Status] Frame
13. Pilot Lamp (Green lamp means machine temperature reachesthe setting temperture. Red lamp means did not reach.)	14. [Start] Option
16. [Setting] Option	15. [Stop] Option

Hood Heating Temperature Setting

Step 1.Touch the [Heating Temperature] Setting Frame

	Preset	Actual		
Heating Temperature			○	**START**
Printed Circles		Clear		
Printed Time				**STOP**
Count down				
Machine Status	Idle			🔧

Red lamp means the hood did not reach the setting temperature

	0~160	✕	
	105		
Heating Temperature	7 8 9	**START**	
Printed Circles	4 5 6		
Printed Time	1 2 3	**STOP**	
Count down	0 · Clear		
Machine Status	ESC Enter	🔧	

Step 2. Set the temperature by pressing the number directly

Step 3. Press [Enter] to confilm setting

Setting Finshed

	Preset	Actual		
Heating Temperature	105℃	105℃	○	**START**
Printed Circles		Clear		
Printed Time				**STOP**
Count down				
Machine Status	Idle			🔧

Printing time setting

Step 1.Touch [printing Time Preset] Frame

	Preset	Actual	
Heating Temperature			○ START
Printed Circles		Clear	
Printed Time			STOP
Count down			
Machine Status	Idle		🔧

Step 2. Set the printing time by pressing the number directly

0~9999

270

Heating Temperature	7	8	9	START
Printed Circles	4	5	6	STOP
Printed Time	1	2	3	
Count down	0	·	Clear	🔧
Machine Status	ESC	Enter		

Step 3. Press [Enter] to confirm setting

Setting Finshed

	Preset	Actual	
Heating Temperature	105℃	105℃	○ START
Printed Circles		Clear	
Printed Time	270	sec.	STOP
Count down			
Machine Status	Idle		🔧

Setting

Preset   Actual

Heating Temperature

START

Printed Circles   Clear

STOP

Printed Time

Count down

Machine Status

Touch [setting] option

Step 2. Touch the [Bottom Temperature] Setting Frame

Preset   Actual

Bottom Temperature   105℃   105℃

Film Preheat Time   3   sec.

Protechion Time   7   sec.

Next

Printed Circles Count   1

Exit

中文   English
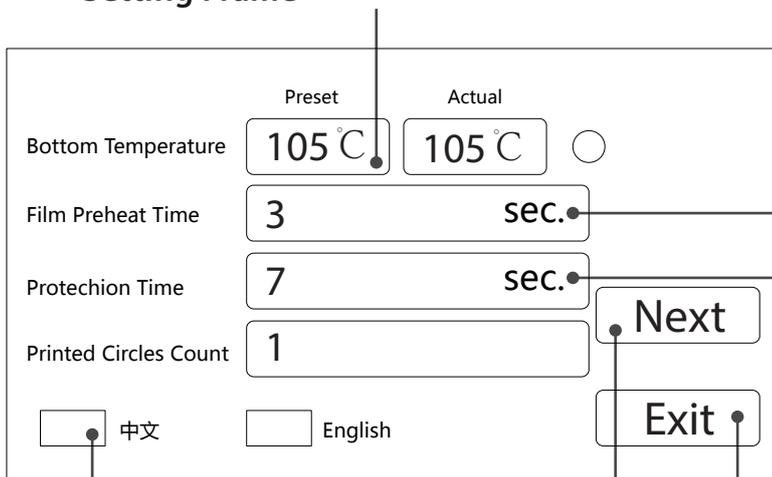
Choose language

next page

Press [Exit] to quit out

Set [Film preheat time]
This time setting is to heat up the film to make it softer, avoiding from the film getting wrinkle when proceed to the next vacuum sublimation step. Recommended time is 3 seconds.

Set[Protechion Time]
This time setting is to protect the film from being overheated before you start printing. Recommended time is 7 seconds.

Heating Delay Time   7   sec.

Consistent Heating Time   8   sec.

Heating Pause Time   23   sec.
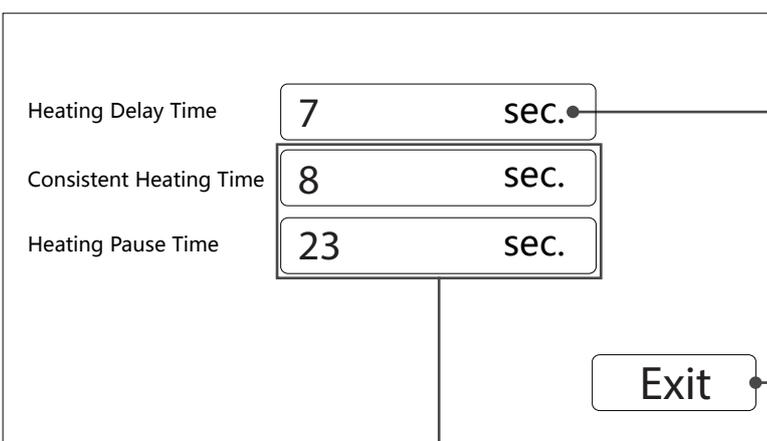
Exit

Set [Heating Delay Time]
This time setting is in order to prevent the film from being in a high temperature environment in a long period and lead the film to be excessive softening and baked. Recommended time is 7 seconds.

Press[Exit] to quit out

Consistent Heating Time setting defines constant heating period of the thermal tubes during the entire vacuum sublimation printing process, and Heating Pause Time setting is to pause the thermal tubes heating up after Consistent Heating Time period. Both two time settings are in order to prevent the printing process from being in a state of overheating and affect the printed result. The Consistent Heating Time is recommended 8 seconds and the Heating Pause Time is 23 seconds.

Vacuum sublimation process
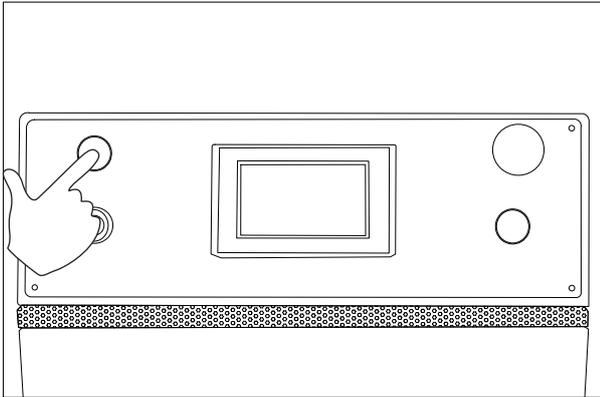
Step 1

Press the Power On button and set the
numerical value according to Step 7
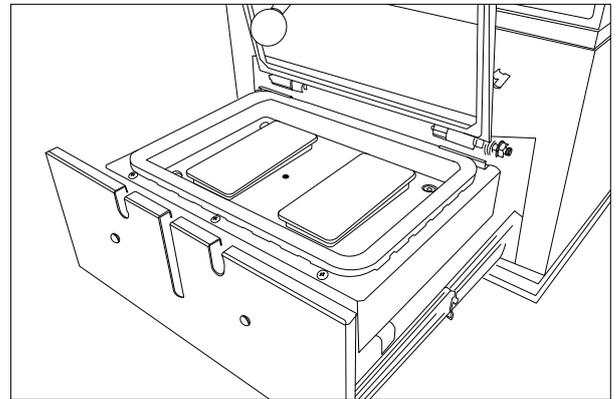
Step 2

Put in the jigs for about
30 minutes preheat.
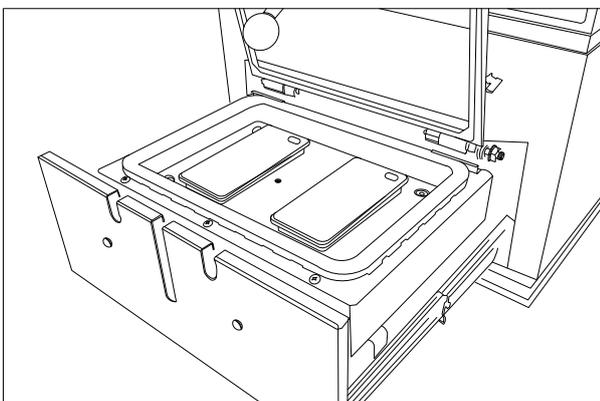
Step 3

Put the phone case on
to the printing jig.
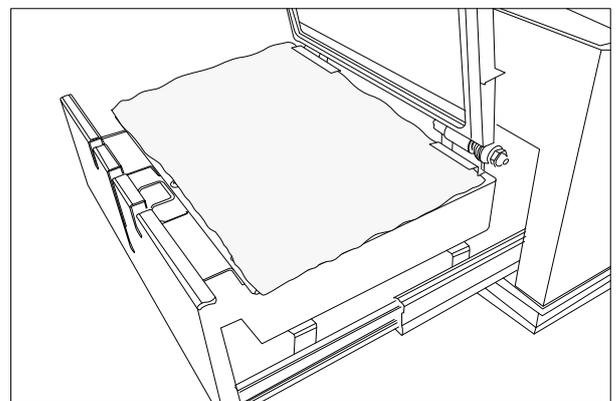
Step 4

Put the printed film over the cases.
Gloss side should be on the top
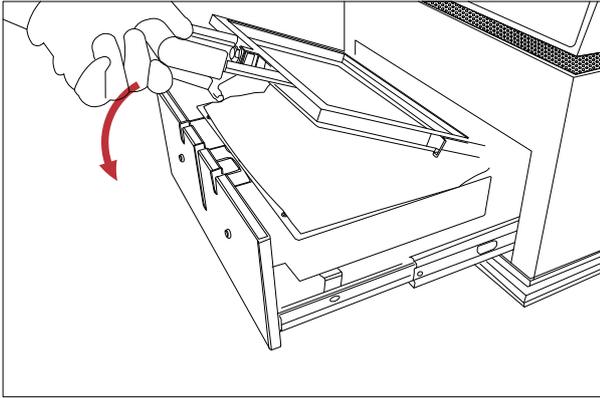
Step 5
Close the positioner
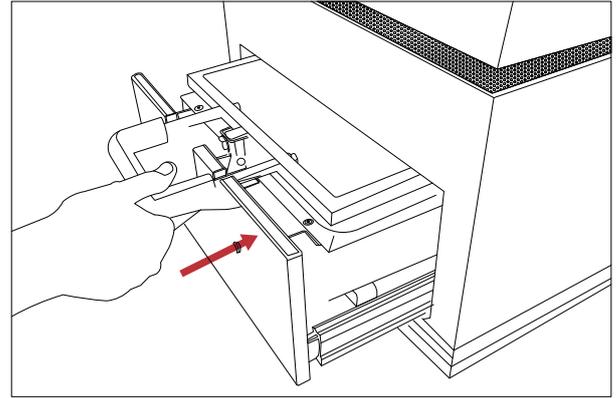
Step 6
Push the platen inside the machine

	Preset	Actual	
Heating Temperature	105℃	105℃	○ START
Printed Circles		Clear	
Printed Time	270	sec.	TOP
Count down			
Machine Status	Idle		
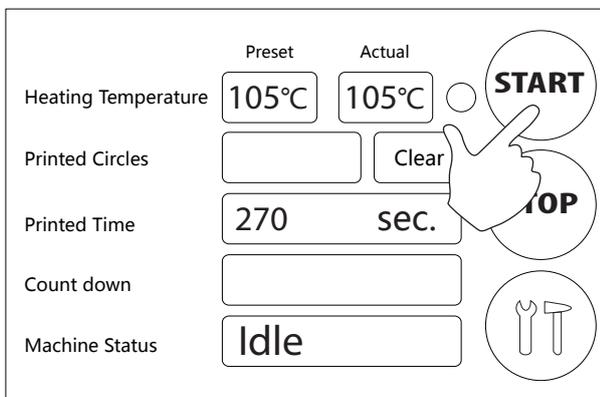
Step 7
Set the printing temperature , printing time and the time for film preheat. Press the START switch to begin the printing process.
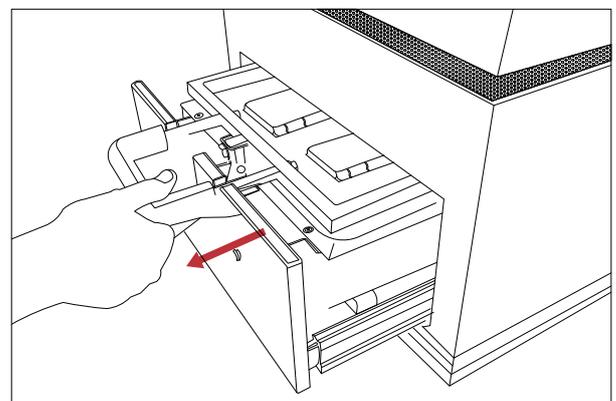
Step 8
Printing finished, pull out the table
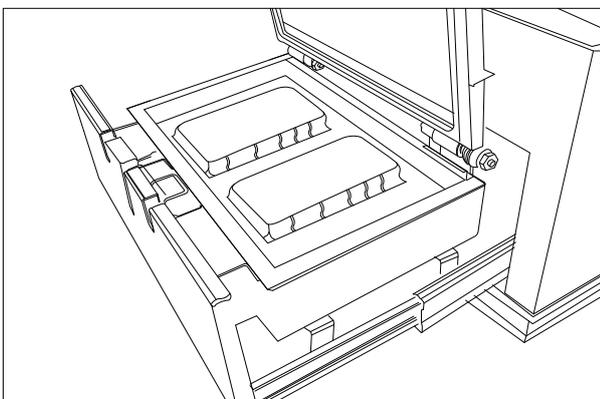
Step 9
Open the positioner then take out the film and the phone cases

SUN-FLY International Business Development Ltd.

China

Room 01,3F,TengHui Building,#28,
ZhuCun BeiHuan Road,TianHe District,
GuangZhou,China.510660

Tel: +86 20 8738 6048
Fax: +86 20 8738 0348
Email: info@sun-fly.com

www.sun-fly-sublimation.com