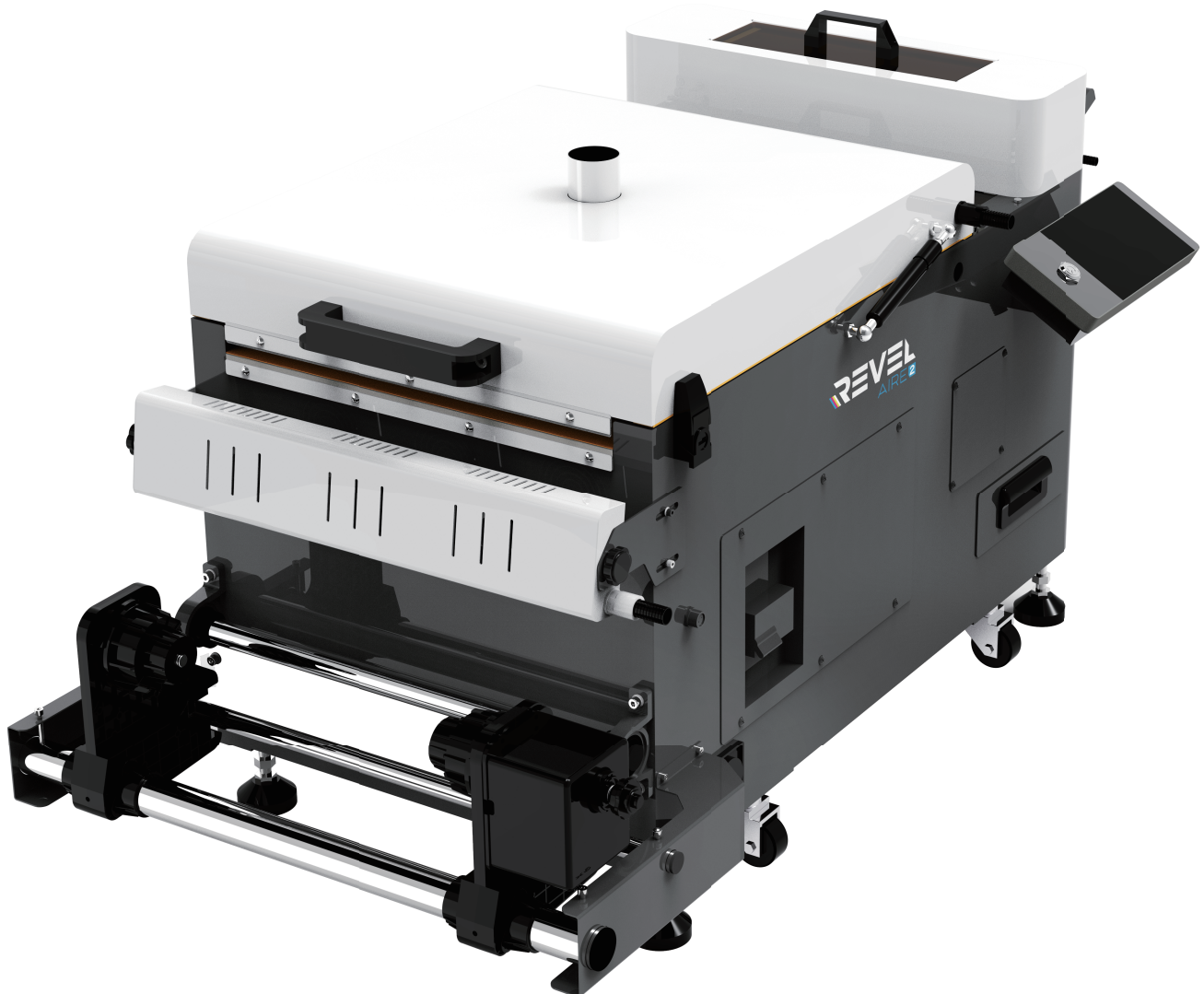


# Manual

## HD-12M powder shaker



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# Chapter 1. Safety instruction

## 1. Safety mark

Dear user:

Hello! Thank you for using this product. To enable you to better read this manual and use the product properly, the following is an explanation of the symbols and signs that appeared in our first manual:



All the contents marked with this symbol are parts that users must pay close attention to. Otherwise, improper operation may cause damage to the product or result in other losses.

## 2. Product description

This machine is a high-power, high-temperature device. It is forbidden to touch the places with high-temperature signs with your hands to avoid burns. Please understand the parameters of the machine before using it to prepare for operation.

HD-12M Parameters

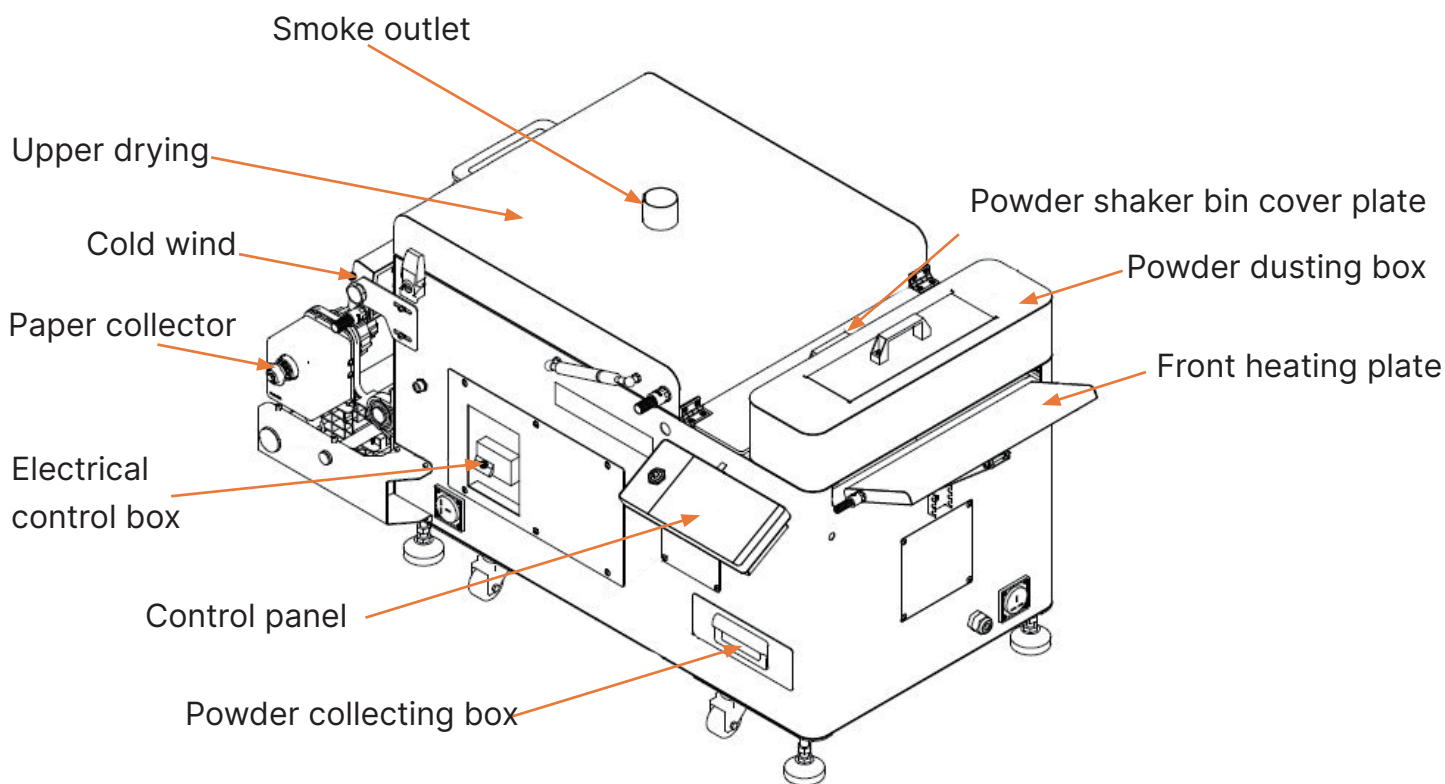
Rated voltage	Rated current	Rated power
AC 110 / 220 V	20 A / 10 A	2.2 KW
Power consumption	Net weight	Gross weight
1.7 KW - 2.2 KW	50 kg	85 kg
Working size	1185 mm x 665 mm x 660 mm (46.65 × 26.18 × 25.96 in)	
Packing size	1350 mm x 890 mm x 880 mm (53.15 × 35.04 × 34.65 in)	

## 3. Precautions before startup

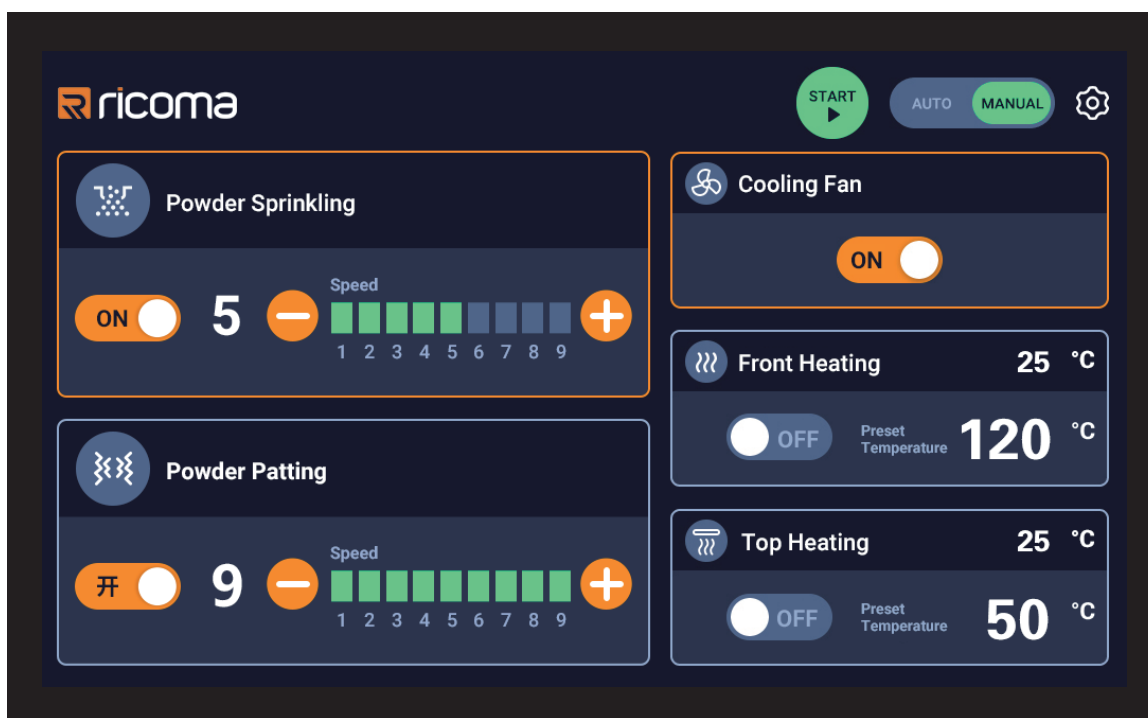


- There is a danger of electric shock! You must connect the ground wire before turning on the machine. Otherwise, it may cause serious personal injury.
- The power supply must match the power supply of the machine, and the wire diameter must meet the rated requirements.
- Check whether the connection of the power supply is standard, especially pay attention to: the neutral and live wire connection needs to be correct.
- For those who are sensitive to static electricity, please take personal protective measures when operating the equipment.

# Chapter 2. Installation diagram



# Chapter 3. Equipment operation procedure



Control panel diagram

1. Confirm that the external power supply of the equipment is connected (AC 220V / 110V, 50/60HZ).
2. Make sure the grounding wire is firmly connected.
3. Align the printer with the powder shaker before use (to reduce the problem of material deviation during collection).
4. Fix the material in the feeder and place it in the printer for printing. For specific operations, please refer to "Winding Method".
5. Turn on the "Main Power switch" of the control box.
6. Function Settings: Function Settings can be made by clicking the screen. When you tap the orange "+" and "-" buttons for dusting powder, you can set the increase or decrease the speed of dusting. To set the speed of shaking, please follow the same operation. When the "Top Baking Heating" preset temperature is clicked, a value setting interface will pop up. Enter the set value to set the top baking heating temperature, and then click Confirm to return to the main interface. The same operation is performed for setting the temperature of the front heating plate.
7. Settings for turning off and on the powdering function: Tap the "Off" and "On" buttons below "Powdering" on the screen to switch between them.
8. Settings for turning off and on the "Powder shaking" function: Tap the "Off" and "On" buttons below "Powder shaking" on the screen to switch.
9. Settings for turning off and on the top drying and heating function: Tap the "Off" and "On" buttons below "Top Drying and Heating" on the screen to switch.
10. Settings for turning off and on the front guide plate heating function: Tap the "Off" and "On" buttons below "Front Guide Plate Heating" on the screen to switch.
11. Settings for turning off and on the cooling fan function: Tap the "Off" and "On" buttons below "Cooling Fan" on the screen to switch.

When the "Manual" function in the upper right corner of the screen is turned on, the powder shaker will work according to the set parameters and will continue to operate without being affected by the sensor.

When the "Auto" function is turned on, the sensor of the powder shaker will sense the film and work according to the set parameters. When there is no film, the powder spreading and powder shaking will stop after 10 seconds. When there is film, the powder shaker will work normally.

When the "Stop" function is turned on, powder dusting and powder shaking will stop, and other functions will work normally. Turning on "Auto" will restore the "Auto" working state, and turning on "Manual" will restore the "manual" working state.

After adjusting the above functions, you can carry out the powder shaking and color fixation work.


15. Upper drying temperature setting: 80°C -120°C (The specific temperature should be set according to the printing speed).

The heating temperature of the front guide plate is set at around 40°C to 60°C.

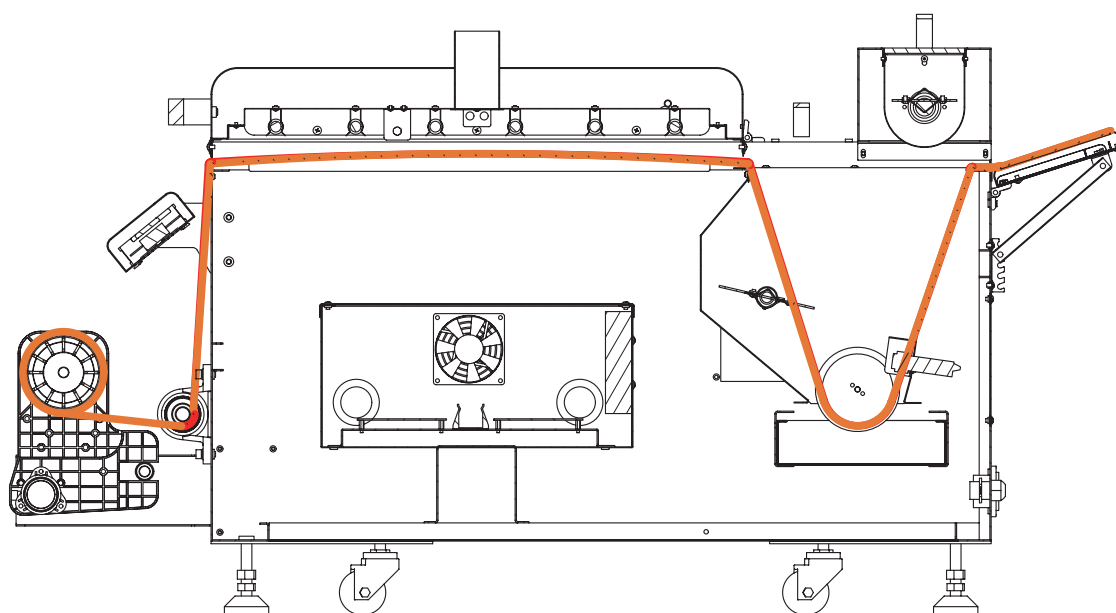
17. After the material has completed color fixation, turn off all “heating switches”.

18. Automatic heat preservation function: It can effectively protect the film from remaining inside the machine. This function does not require any Settings. When the machine is in automatic mode, it will start working. After the printer stops working for 20 seconds, the heat preservation function will automatically start, reducing the current set temperature by 30 degrees. When the printer is restarted, the temperature will automatically return to the set value. This function is not available in manual mode.

19. Suggested Settings: Powder shaking speed 4-6, powder dusting speed 3-4, upper drying temperature 100 degrees, front guide plate 60 degrees. These are reference values. Depending on the material, increase or decrease them according to the actual situation.

20.  Tap the gear button in the upper right corner of the main interface to pop up a pop-up window, where you can set the screen language and temperature unit

## Chapter 4. Winding method



Transfer the color-fixing material to the bottom of the powder dusting box, and let it enter between the shaking rod and the platform for color-fixing. Finally, roll the color-fixed material into the paper tube of material collector.

**CAUTION** Note: Ensure that the color-fixed material is flat and without wrinkles, and that the material edges at both ends of the machine are aligned.

# Chapter 5. Maintenance

1. The external power supply must be disconnected when repairing or cleaning the machine.
2. Clean residual powder on the wall of the powder-shaking cavity after finishing the goods every day.
3. Clean shaking powder film
4. Clean residual powder on the panel
5. Clean powder on the positioning shaft
6. Control the electric box to clean regularly and keep dry.
7. When the powder box gets off work every day, the powder box should be cleaned without powder to prevent the rubber powder from getting damp, which will cause the powder not to fall or the motor to be stuck and burned. When the dusting is blocked, the dusting scraper can be removed for cleaning.
8. For the rubber powder for secondary use, it shall be sieved with a 60-mesh screen before use, so as to prevent the rubber powder with other impurities from blocking the powder mesh or impurities from entering the picture, which will affect the effect of the picture and the firmness of hot stamping.