UNINET® DTF™

14” Automated Powder Application and Curing Machine 120v Instruction Manual



Uninet Part # DTFSHAKER14120V

Contents

In order for you to use this heater/shaker product correctly, please read this manual carefully before installing and using the product, and keep it for future reference.

This heater/shaker needs regular cleaning and maintenance. If not properly maintained, its service life will be greatly reduced.

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Safety warning

⚠note

This section describes the content and importance of safety matters to prevent personal injury or property damage to users or others. Please fully understand the following content (marked
Please read the text based on the logo and icon), and be sure to observe the safety precautions described.

⊘ Indicates [prohibited] content



No flammable materials,



no wet areas,



no open flames,



no operation by children,



no use of inferior power sockets

· Do not pull the power cord when unplugging the power plug of the device. Be sure to hold the plug firmly and pull it out directly from the socket. To ensure safe use, please do not damage the power cord at any time, and do not use it when the power cord is damaged or the plug is frayed. If the power cord is worn or damaged it must be replaced before use.

ⓘ mandatory]



Need to be grounded



Need professional

· This heater/shaker requires a dedicated 20 Amp 120VAC circuit. Failure to provide this will cause frequent circuit breaker shut off and possible damage to the machine.

· Please do not put flammable, explosive, volatile and highly corrosive materials near the powder shaker to avoid accidents such as product damage or fire. Please do not place or use flammable materials near the powder shaker to avoid fire.

⚠ Indicates [Caution] Matters that may cause minor injuries

- To ensure safety, it is recommended not to place debris on the top of the heater/shaker.
- Avoid touching the surface of the device to prevent hand burns.
- When cleaning, the power plug should be unplugged.

Product Specifications

DTFSHAKER14120V Specifications	
Model	Uninet DTFSHAKER14120V
Type	14” heater/shaker with air purification filter
Voltage/Frequency	AC120V/60HZ
Rated power	16 Amps/120VAC
Heating power	2.0KW
Machine size (L*W*H)	42 x 26 x 32” (106.7cm×66c32m×81.3cm)
Packing size (L*W*H)	46.75 x 26.25 x 39.5” (118.7cm×667cm×1003cm)
Machine weight	Gross weight: 192lb (87.5KG) Net weight: 120lb(55KG)
Roll material	PET film
Applicable material size	14in/(355mm)
Warranty	1 year
Type of protection against electric shock	Circuit breaker
Working temperature	65F-82F (18°C-28°C)
Working humidity	40%-80%
Core Components	control board, motor, thermostat, fan, heating tube, gear, bearing, sensor

Product Introduction



Parts List

1)Right side rewinder motor
2) Left Side rewinder Assy
3) fume extractor tube (If needed)
4) Right rewinder bracket
5) Left rewinder bracket
6) Pre-Heat arm brace
7) Rewinder film tube
8) Spare heat lamp
9) Rewinder Assy rods



Control Panel



Instructions for use

Button introduction

Main Power	The Blue circuit breaker controls the AC power to the entire machine.
On/Off	The 24V power supply section for controlling the machine
Cooling	Turn on the rear fan to cool the freshly printed film that has just emerged from the tunnel.

Powder clear	Rotate the powder shaking rod and tap the back of the printing film to shake off excess powder.
Shake powder	The powder distribution rod rotates to stir the powder, which then flows from the holes in the top powder trough onto the printing film.
Exhaust fan	When activated, it helps remove evaporated cooking fumes from the tunnel and direct fumes through filter Assy.
Oven dry	Tunnel drying heating is used to completely dry the ink and melt the powder, typically set at approximately 110° C-130° C.
Pre-heat	The pre-drying platform heats and dries the ink surface, typically set at approximately 50° C-80° C.
Powder volume	Adjust the knob to change the powder dispensing augers rotation speed, regulating the powder dispensing rate.
Shake strength	Adjust the knob to change the rotation speed of the powder shaking motor and regulate the force of the beating membrane.
Oven heat controler	The general setting is around 110° C-130° C.
Pre-heat controler	The general setting is around 50° C-80° C.

Instructions for use

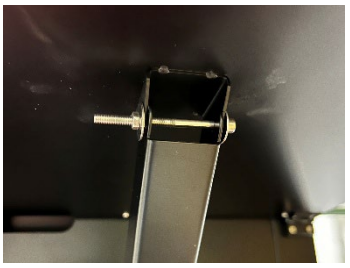
Use tools to unpack, and check the accessories after un-packing.（Cut off the fixed cable ties used for transportation.）

1. Unpack and inspect the included accessories. (Remove the screws and straps used for transportation)



2. Machine installation: inspect the film rewinder pieces and support bars, secure the receiving device with screws, assemble the rewinder, and complete assembly as shown.

3. Thread the long screw and brace bar into the underside of the pre-heat tray. Clip the bottom end into the shaker so that the platform is flat



4. Connect the machine to the **dedicated 120VAC 20 Amp power** source to prevent circuit breaker tripping or overheating due to insufficient power

5. Test all button functions including temperature control, powder shaking, powder distribution, automatic stepping, and fan operation to ensure proper functionality

6. If necessary, connect the exhaust fan's outlet to a dedicated fume extractor. (The top Assembly contains a fume filter).

7. Power on the powder distribution, activate the pre-drying, drying, and fan systems, and set the drying temperature to approximately 110° C. Adjust the temperature of the connecting pre-drying platform to around 60° C. Then, turn on the exhaust fan.

8. During printer operation, the powder distribution system should be loaded with approximately 0.5-1 kg of powder

9. Insert the freshly printed film into the powder tunnel of the powder feeder, then manually transfer it to the tunnel exit using a piece of unused film taped using heat tape.

10. Install the media take up roll and secure the printing film to it. Adjust the tension of the take-up roller to enable automatic operation. The take-up roller detects the printing film through a sensor and synchronizes the printer's printing speed. When the sensor detects the printing film, the take-up roller starts; when the sensor does not detect the film, the take-up roller stops.

11. After printing and curing is complete, turn off all button functions, then turn off the main power.

Cleaning and maintenance

⚠note

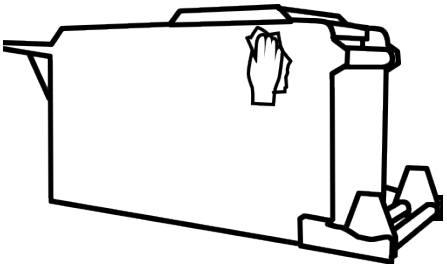
This section describes the content and importance of safety matters to prevent personal injury or property damage to users or others. Please read the text after fully understanding the following content (marks, icons), and be sure to observe the safety precautions described.

⚠note

When cleaning the powder shaker, please unplug the power plug first.

Clean

· Please clean up the dust on the body of the powder shaker and the bottom of the heater bed to improve the heat dissipation effect and to also save energy.
· The powder shaker should be cleaned frequently. When cleaning, please use a soft towel or sponge, dampened in water or a non-corrosive neutral detergent, and finally wipe it with water and dry it with a dry cloth.



⚠Important!

When cleaning, do not use hard brushes, steel wire balls, steel wire brushes, abrasives (such as toothpaste), organic solvents (such as alcohol, acetone, banana water, etc.), boiling water, and acid-alkaline items to clean the powder shaker.



⚠note

Do not rinse with water when cleaning, so as not to affect the electrical insulation performance. Use a dry cloth when cleaning electrical parts.



· When not in use for a long time, unplug the unit.

Service Guide

⚠note

If you are experiencing an issue, please check the following points.

Note: If there is still a problem with the powder/shaker after checking the items below, please unplug the unit and contact Tech Support.

Problem	Possible Causes	Approach
The machine does not respond when you press the on/off switch	The Blue circuit breaker is not turned on	Check the main switch and re-energize
The machine is not spreading the powder properly	Is the speed of the rotating rod set to the appropriate position	Adjust rotation speed
The powder shaker does not heat up	The temperature sensor probe is loose	Open the shell and check the wiring terminals
Oil dripping in the powder shaker	Oil accumulation inside the tunnel	Open the tunnel cover to clean up the oil accumulation. Change the fume filter
The paper feeder is not working	Photoelectric sensor is not sensitive	Adjust/clean the photoelectric sensor
The powder clean is not removing all the excess powder	Is the speed of the rotating rod set to the appropriate position. Make sure the humidity is within the specified range	Adjust rotation speed Increase the humidity in the room with a evaporative humidifier. **Do NOT use a misting type humidifier!**