USER MANUAL

# Miro 36 Pro




DTF STATION

www.dtfstationglobal.com

BEFORE YOU BEGIN

# Safety Instructions

**Thank you for purchasing this product.**

When using your powder shaker, basic precautions should always be followed, including the following:

1. Read all instructions before operating.
2. Use the powder shaker only for its intended purpose.
3. To reduce the risk of electric shock, do not expose the machine to rain or moisture. Do not immerse the machine or any electrical components in water or other liquids.
4. Never pull the cord to disconnect from the outlet; instead, grasp the plug and pull it to disconnect.
5. Do not operate the powder shaker with a damaged cord, or if the equipment has been dropped or damaged. To reduce the risk of electric shock, do not disassemble or attempt to repair the machine. Take it to a qualified service person for examination and repair. Incorrect assembly or repair could increase the risk of fire, electric shock, or injury to persons.
6. This appliance is not intended for use by persons (including children) with reduced physical, sensory, or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
7. Close supervision is necessary when the powder shaker is used by or near children. Do not leave the equipment unattended while it is connected to power.
8. This machine uses two power cords. Plug each cord into its own dedicated circuit on a separate breaker (20 A circuits for 110V models). Never plug both cords into the same circuit, power strip or extension cord, and do not run other high-power appliances on either circuit.
9. Plug each power cord directly into a wall outlet. Do not use extension cords or power strips.
10. Do not wipe or touch the heating lamps. A broken lamp has sharp edges and can cause cuts.
11. The machine ships as two units and weighs 226.5 kg (499 lb) in total. Always move it with at least two people.

The manufacturer shall not be liable for any direct or indirect loss or damage arising from the use of this product, regardless of any performance failure of this product.

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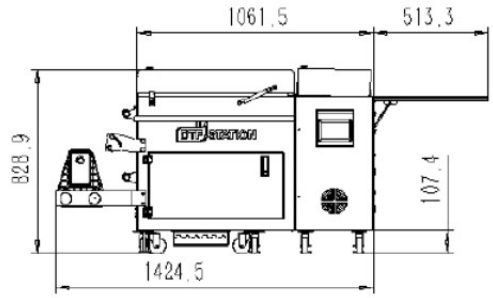
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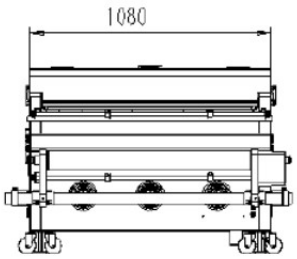
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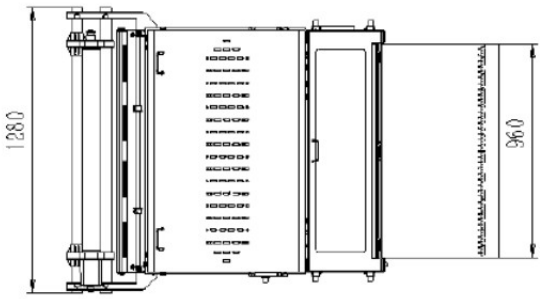
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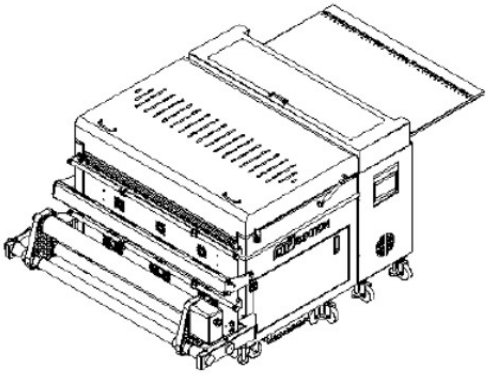
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# 1. Technical Parameters



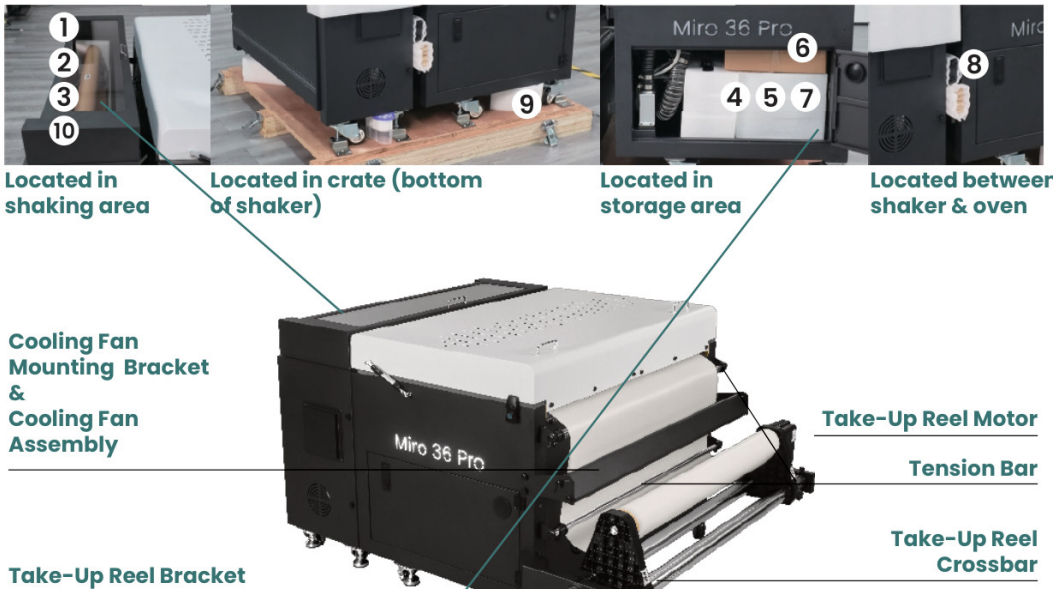



| ITEM | SPECIFICATION |
|---|---|
| **Max Film Width** | 90cm (36") |
| **Max Curing Speed** | Up to 22 m²/h (236.8 ft²/h) |
| **Max Powder Load** | 0.855 kg (1.88 lb) |
| **Certificate** | CE, FCC |
| **Weight** | 226.5 kg (499.35lb) |
| **Dimension** | 193.9 × 110.1 × 82.3 cm (76.34" × 43.3" × 32.4") |
| **Power Requirement** | **110V:** 3.1 kW total (28.2 A), 2 power cords at 1.55 kW / 14.1 A each, each on a separate 20 A circuit<br>**220V:** 3.1 kW total (14.0 A), 2 power cords at 1.55 kW / 7.0 A each, each on a separate circuit |

# 2. Installation Guide




| NO. | PARTS LIST |
|---|---|
| **1** | Take-Up Reel Bracket ×2 |
| **2** | Color Prime Glide Pro - 90cm*50m/Roll ×1 or Color Prime Glide Pro - 80cm*50m/Roll ×1 |
| **3** | Paper Core 920mm ×1<br>Spare Heating Bulb / Quartz Lamp (w/ 2 clips) ×2 |
| **4** | Take-Up Reel Motor ×1 |
| **5** | Media Wheel ×3<br>Clamp ×2<br>Brush ×1<br>Key ×2 |
| **6** | Cold Catalyst Filter 300×300×50 mm ×1 (LOPO-J-06-05-0029)<br>Pleated Activated Carbon Filter 300×300×50 mm ×1 (LOPO-J-06-05-0028) |
| **7** | Cooling Fan Mounting Bracket ×2<br>M5*12 Screw ×20<br>Tension Bar Bracket ×4 |
| **8** | Cooling Fan Assembly ×1 |
| **9** | Tension Bar ×2<br>Media Wheel Bar ×1<br>Tension Bar Limiter ×4<br>Bearing ×4<br>M4*10 Screw ×4<br>Take-Up Reel Crossbar ×2 |
| **10** | Power Cord ×2 |

# 3. Installation Instructions

## 3.1 Unpacking and Setting Up the Machine

**BEFORE YOU BEGIN**

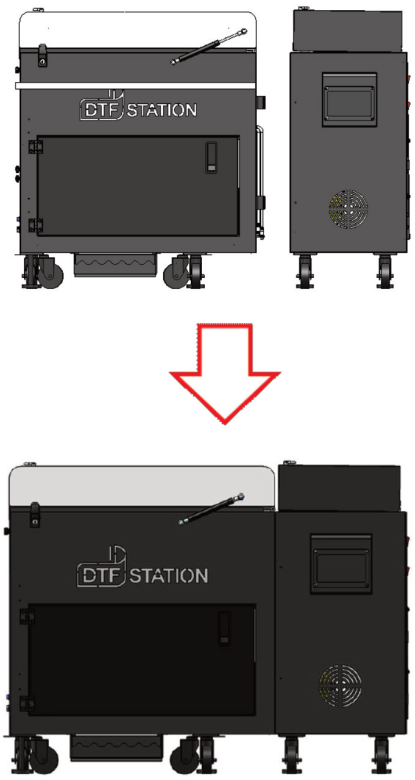
You need at least two people, a power drill, an adjustable wrench and gloves.

Video walkthrough: youtube.com/watch?v=XPP1C6158v8

1. **Move the units off the pallet.** Remove the screws on the bracket at each leveling foot. Raise each foot so the machine rests on its wheels. Lay a crate panel from the pallet to the floor as a ramp. With two people, roll the powdering unit, then the oven unit, down the ramp. Do not tilt either unit.
2. **Connect the cables.** Roll the units close together. Plug each cable from the oven unit into the socket with the matching number and turn the metal collar to lock it.
3. **Join the units.** Push the units together, tucking the cables inside the gap. Check that the seam is level front and back, then tighten the joining knobs at the top and bottom.

**INSTALLING THE POWDER-SHAKING MODULE**

Align and install the powder-shaking module as illustrated.



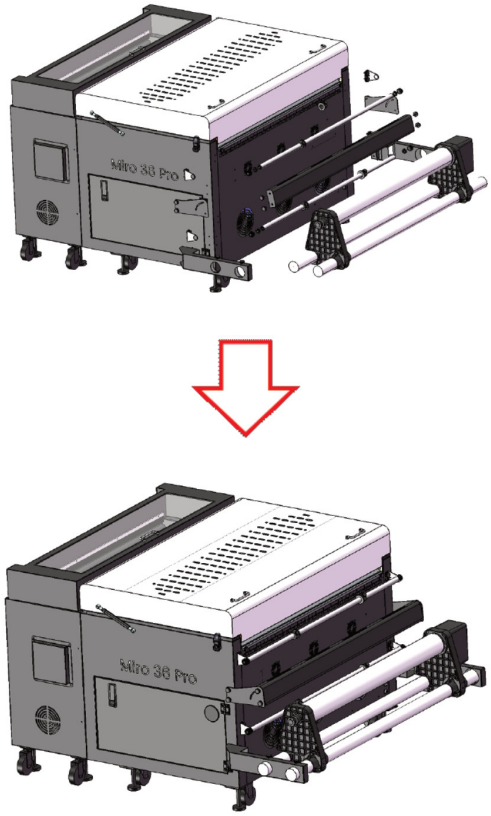

4. **Install the tension bars (parts 7 and 9).** At the back of the machine, fit the four tension bar brackets. Remove the knob and bearing from each bar end, seat the bar in its brackets, then refit the bearing and knob.

5. **Install the cooling fan (parts 7 and 8).** Mount a fan bracket on each side. Set the fan on the brackets with its power cable on the side shown, then tighten the knobs at the angle you want.

6. **Install the take-up reel (parts 1, 4 and 9).** Mount both take-up arms, slide the crossbars through, slide on the two take-up motor units, then tighten all knobs. Connect the take-up cables and lock the collars. Fit the paper core (part 3) between the take-up units and tighten.

#### INSTALLING THE TAKE-UP REEL ASSEMBLY

Insert and secure the take-up reel bracket as illustrated.



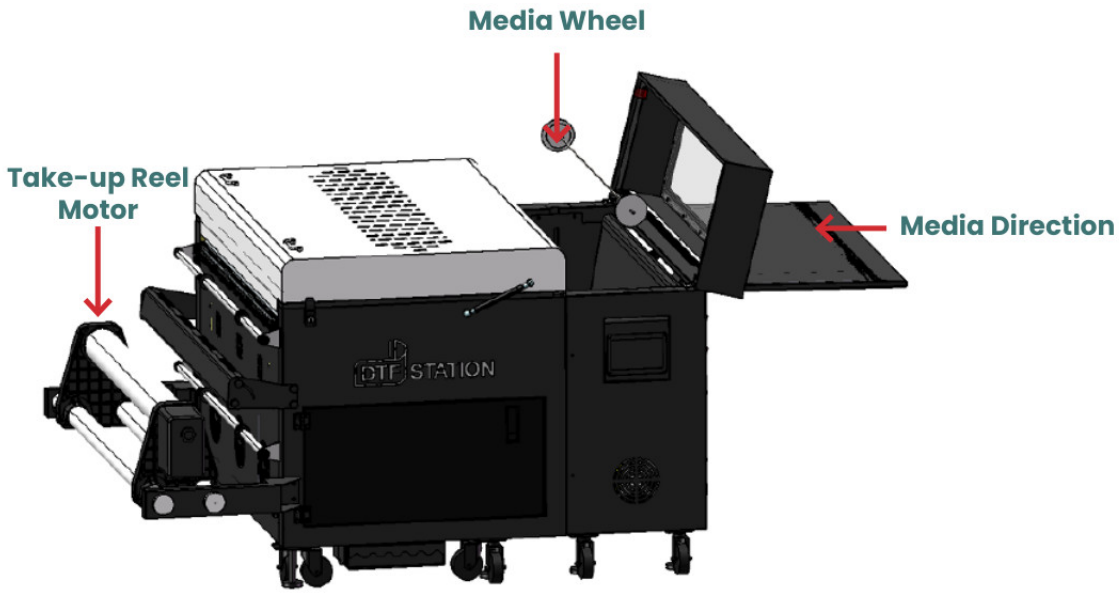

7. **Lower the leveling feet.** With the machine in its final position, turn each foot down to the floor, then turn the nut up to lock it.

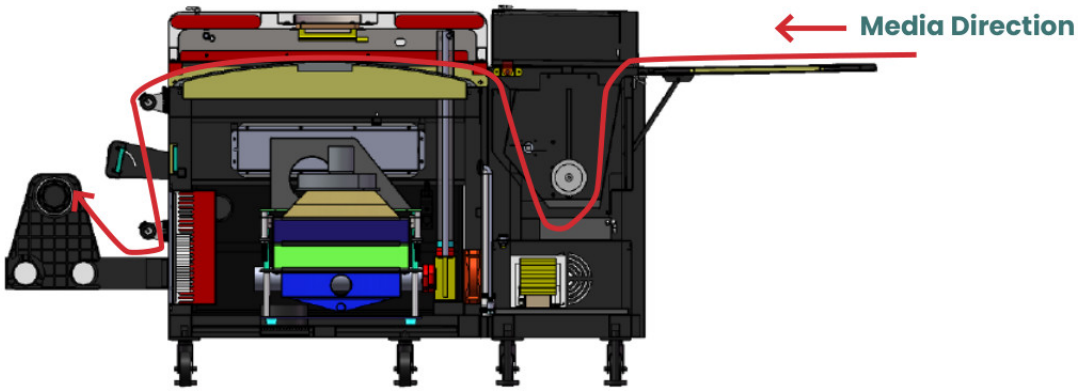
8. **Connect power.** Plug one power cord (part 10) into the upper socket and the other into the lower socket. Plug each cord into a separate circuit. Press the upper power switch, then the lower one. One circuit runs the main heating and take-up reel; the other runs the heating bulbs and front heating.

> ⚠ **WARNING**
>
> This machine uses two power cords. Plug each cord into its own dedicated circuit on a separate breaker (20 A circuits for 110V models). Never plug both cords into the same circuit, power strip or extension cord, and do not run other high-power appliances on either circuit.

## 3.2 Installing the Media

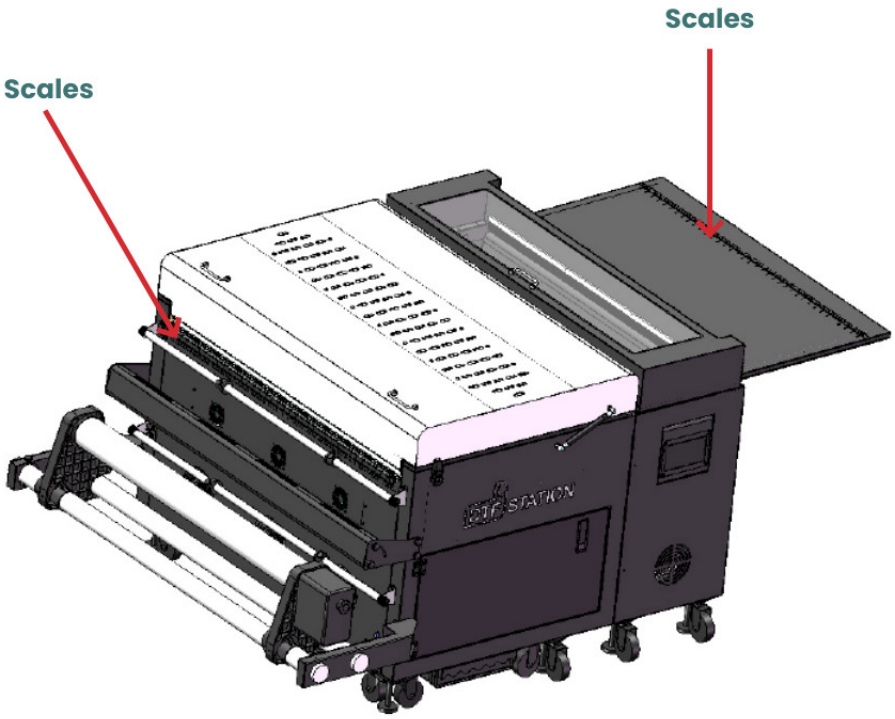
Remove the media wheel first. Feed the media along the indicated film-feed direction and secure it to the take-up reel. Reinstall the media wheel, then proceed to the next step as shown.



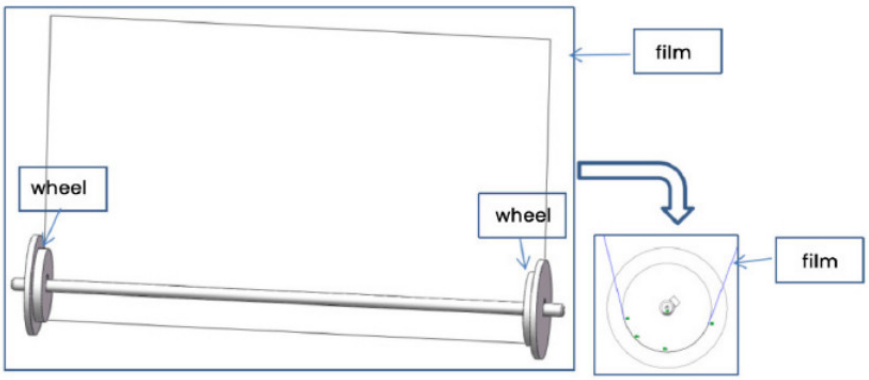
## 3.3 Media Alignment

After loading the media, ensure the width of the printing film aligns with the scales on the front and rear of the machine.



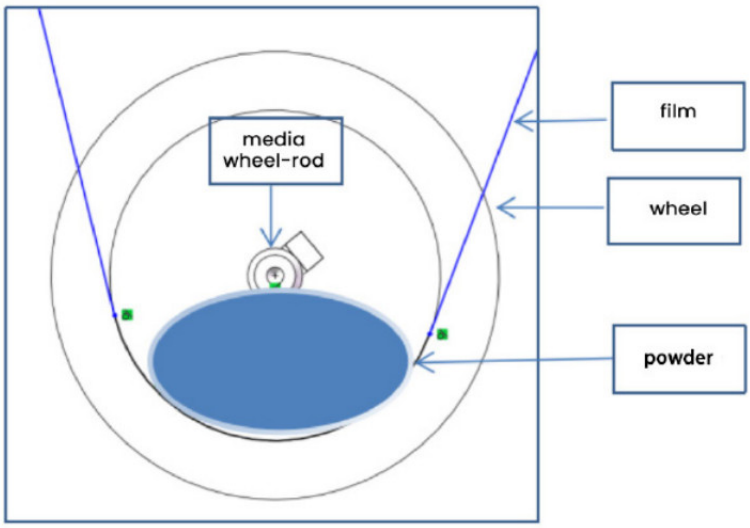

## 3.4 Securing and Positioning the Media Wheel

Install and secure the media wheel and the media. Pay special attention to the position of the media edges relative to the media wheel (ensure it stays within the limits).



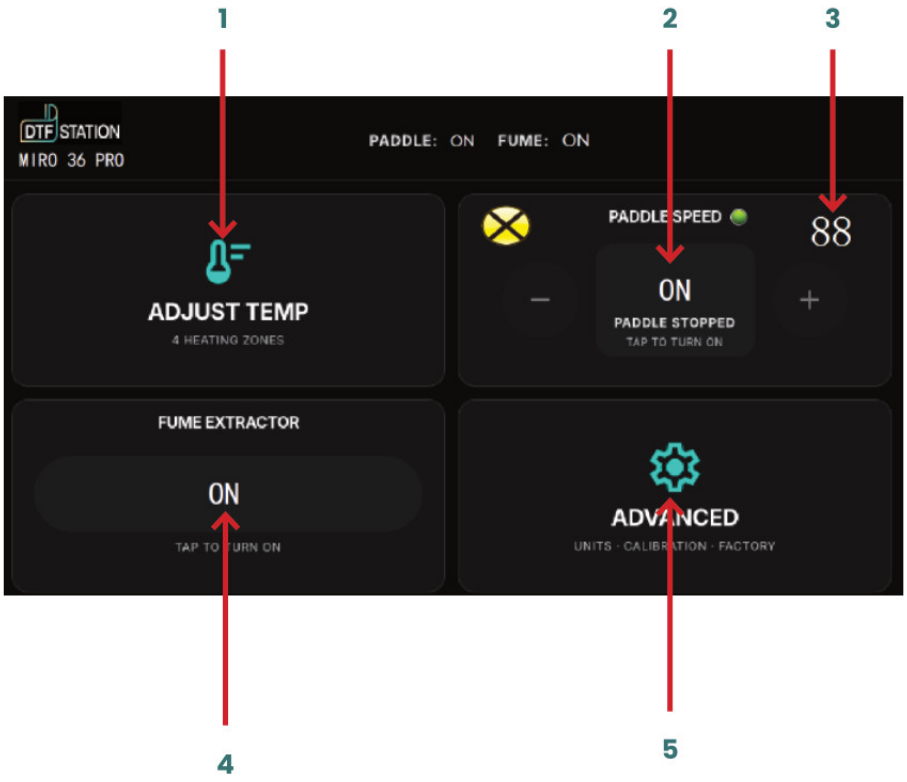
## 3.5 Adding DTF Powder

After securing the media wheel, add DTF hot-melt adhesive powder within the media wheel coverage. Recommended 0.8 kg per fill.



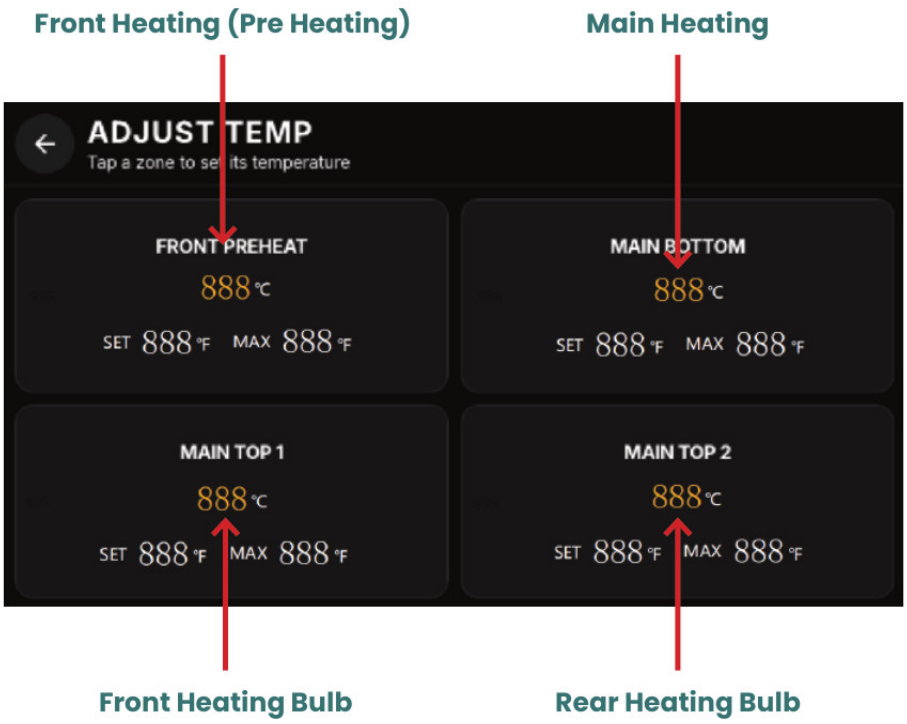
# 4. Control Panel Guide

### MAIN SCREEN LAYOUT AND FUNCTION

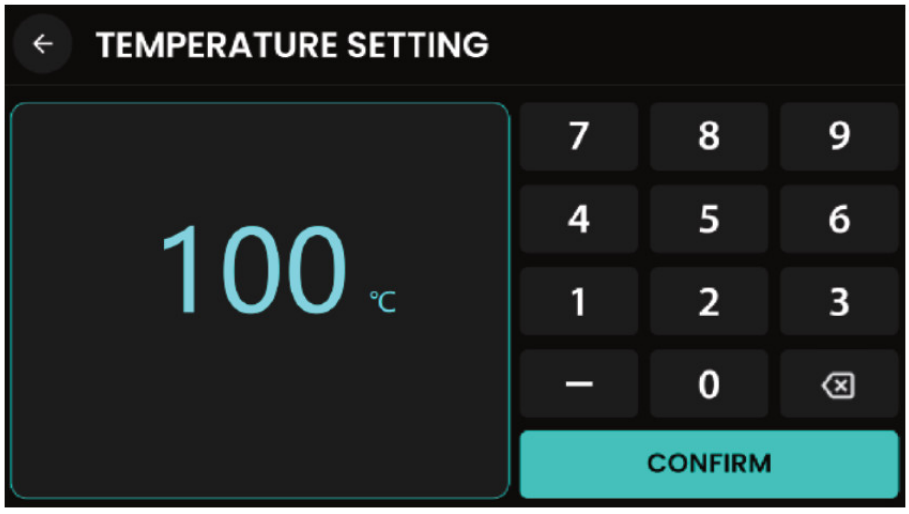



| ITEM | FUNCTIONS |
|---|---|
| 1 | Temperature Settings (ADJUST TEMP) |
| 2 | Powder Shaking Switch (PADDLE: ON/OFF) |
| 3 | Powder Shaking Speed (PADDLE SPEED) |
| 4 | Fume Extractor Switch (FUME EXTRACTOR) |
| 5 | Advanced Settings (ADVANCED) |

## 4.1 Temperature Settings



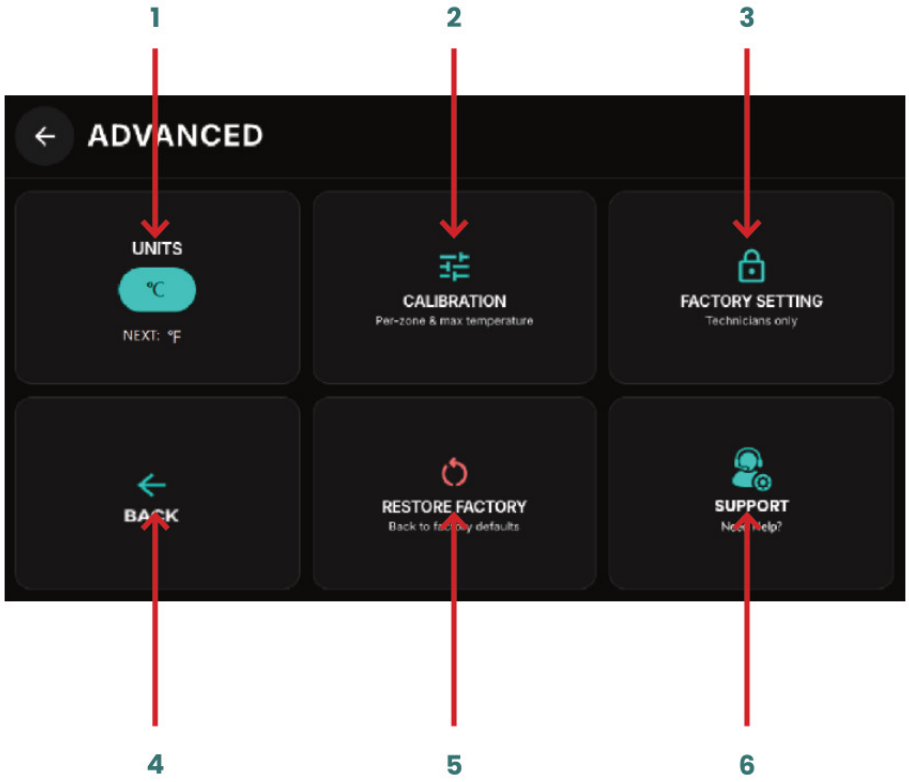

Tap "ADJUST TEMP" on the main screen to enter the temperature setting interface. Tap the corresponding heating zone, enter the desired temperature, and tap "CONFIRM" to return.




**IMPORTANT**

Default factory parameters: Front Heating 80°C (176°F); Main Heat 130°C (266°F); Front Heating Bulb 75°C (167°F); Rear Heating Bulb 75°C (167°F). These are starting points and can be adjusted to suit your film, powder and room conditions. If the ambient temperature is very low, you may need to raise them.

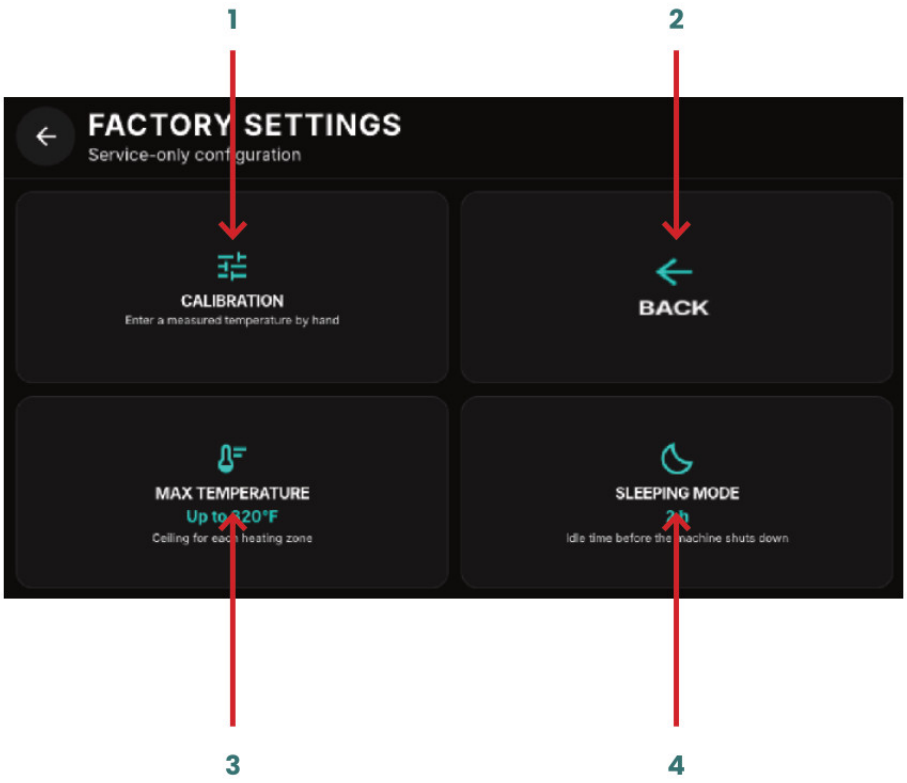
## 4.2 Advanced Settings




| ITEM | FUNCTIONS |
|---|---|
| 1 | Switch between Celsius and Fahrenheit (UNITS) |
| 2 | Temperature Calibration (CALIBRATION) |
| 3 | Factory Settings (FACTORY SETTING) |
| 4 | Back (BACK) |
| 5 | Restore Factory Defaults (RESTORE FACTORY) |
| 6 | Technical Support (SUPPORT) |

## 4.3 Factory Settings

> **TECHNICIANS ONLY**
>
> The screen labels this page "Service-only configuration."




| ITEM | FUNCTIONS |
|---|---|
| 1 | Calibration (Enter a measured temperature by hand) |
| 2 | Back |
| 3 | Max Temperature (temperature ceiling per zone): Front Preheat and Main Bottom up to 160°C (320°F); Main Top 1 and 2 heating bulbs up to 90°C (194°F). |
| 4 | Sleeping Mode (Idle time before the machine shuts down, e.g., 2h) |

## 4.4 Calibration (Auto temperature calibration)

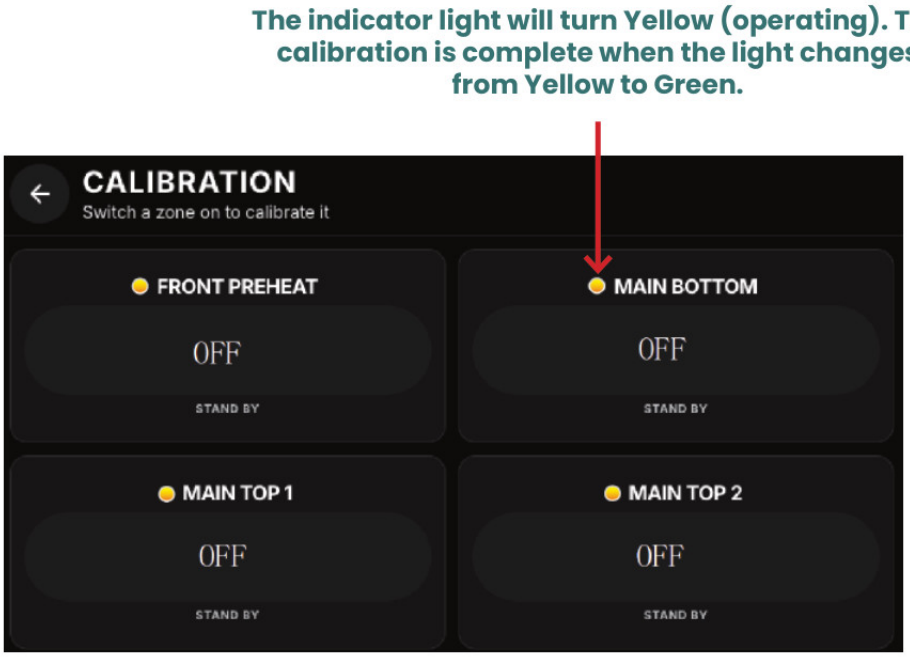
> **IMPORTANT**
>
> This action must be performed under the guidance of DTF STATION Tech.

### PRE-CALIBRATION CHECKLIST

- Ensure the machine is heating and has stabilized at the set target temperature.
- Ensure the fume extractor is turned ON.
- Ensure all machine covers/doors are completely closed. (Simulating normal printing conditions will significantly improve auto-calibration accuracy.)

### OPERATING STEPS

1. In the CALIBRATION interface, select the heating zone to be calibrated, and switch it from OFF to ON.
2. The system will heat the zone according to the calibration procedure. The indicator light will turn Yellow (operating). The calibration is complete when the light changes from Yellow to Green.



## 4.5 Manual Calibration (Manual temperature compensation)

> **IMPORTANT**
>
> This action must be performed under the guidance of DTF STATION Tech.

(It is recommended to measure when the machine is stable and the fume extractor is ON to ensure data accuracy.)

If there is a deviation between the displayed temperature and the actual measured temperature, tap the corresponding zone to enter manual compensation.

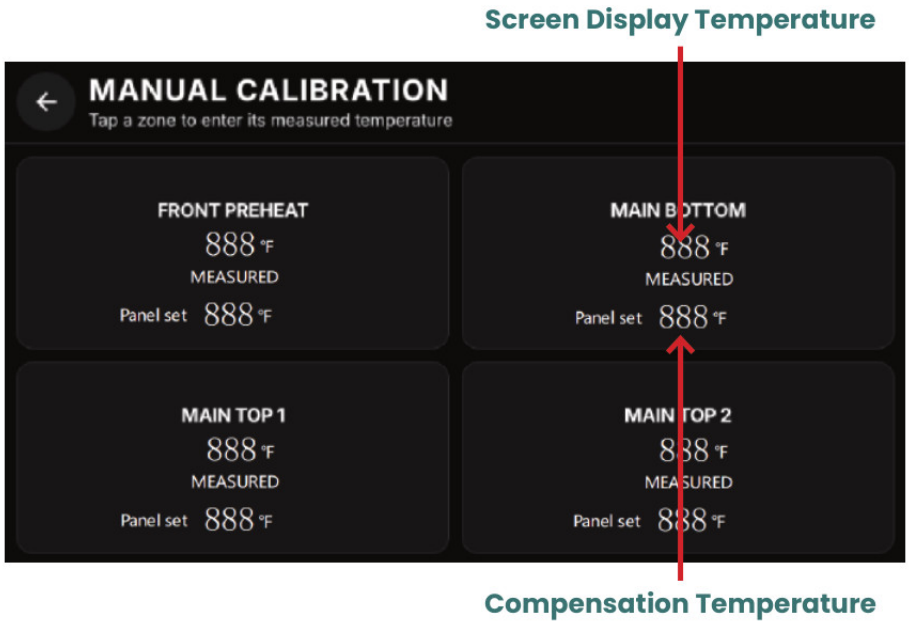
Use a thermometer to measure the actual temperature and enter the temperature difference. The device will automatically calculate and correct the temperature.

### COMPENSATION LOGIC

- If the screen display is lower than actual (measured > displayed), enter a positive number.
- If the screen display is higher than actual (measured < displayed), enter a negative number.

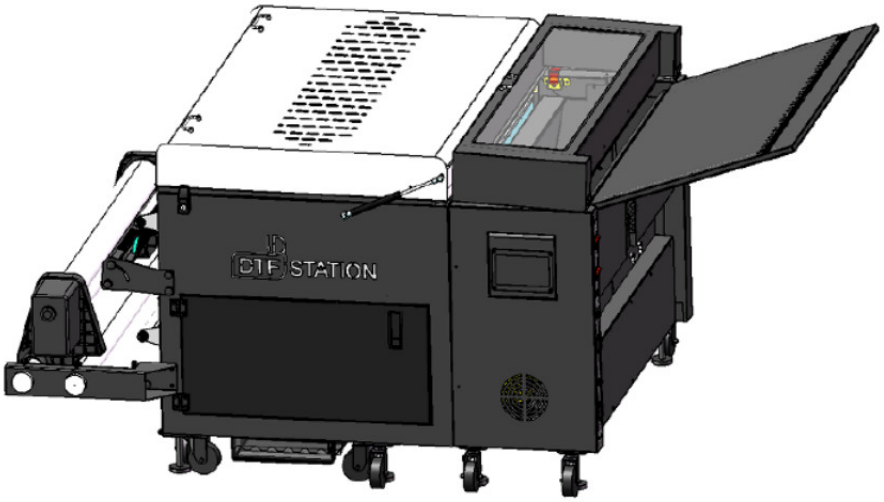
### EXAMPLES

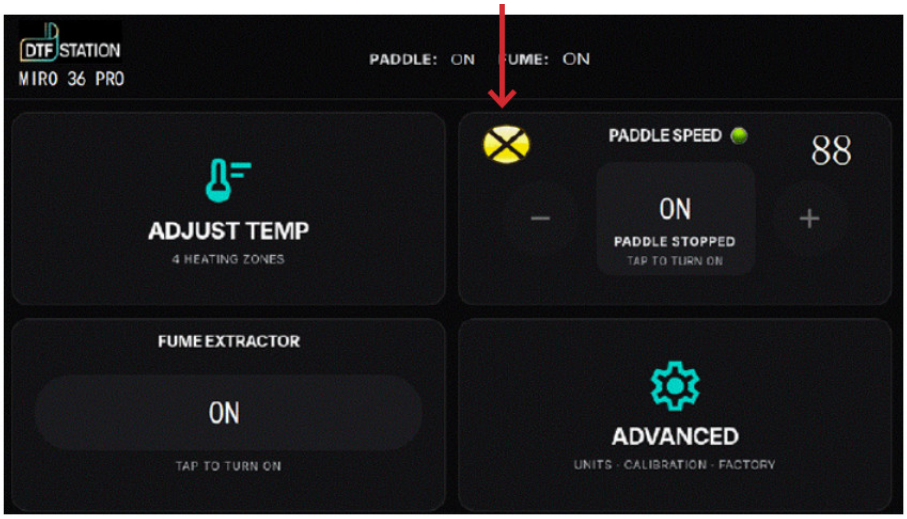
- Example 1: The touchscreen reads 125°C, but the thermometer measures 130°C. Enter 5 as the compensation value; the touchscreen will now display 130°C.
- Example 2: The touchscreen reads 135°C, which is higher than the actual measured 130°C. Enter -5 as the compensation value; the touchscreen will correct its display to 130°C.



## 4.6 Cover Sensor

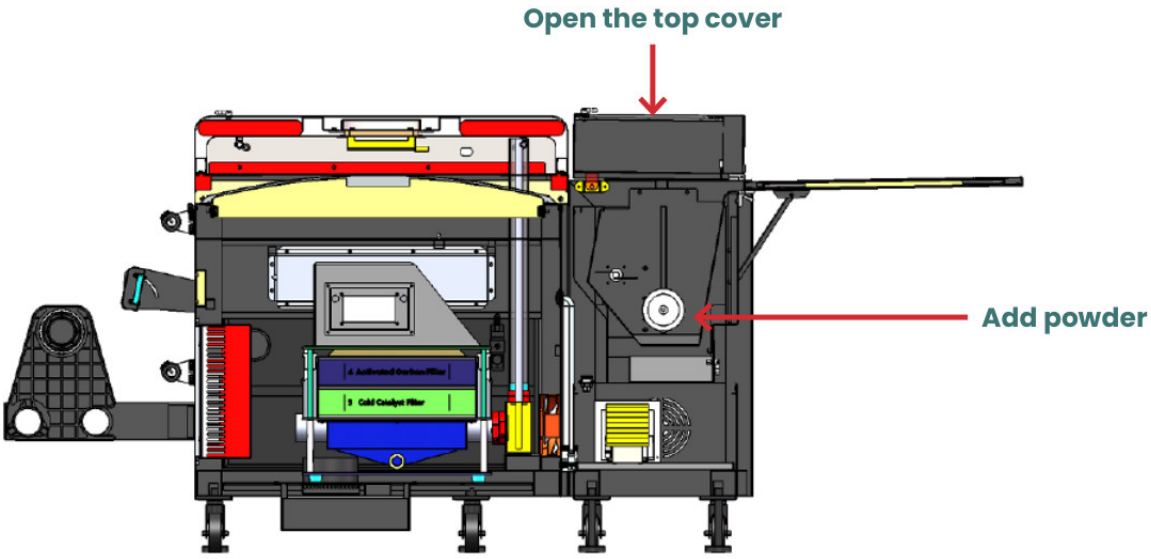
For safety protection, when the shaker cover is opened during operation, all heating, motors, and powder shaking actions will immediately stop. The display screen will show a cover-open warning. Note: To resume operation, securely close the cover. The system will resume normal heating and working only after detecting the closed signal.



# 5. Consumables Replacing and Adding

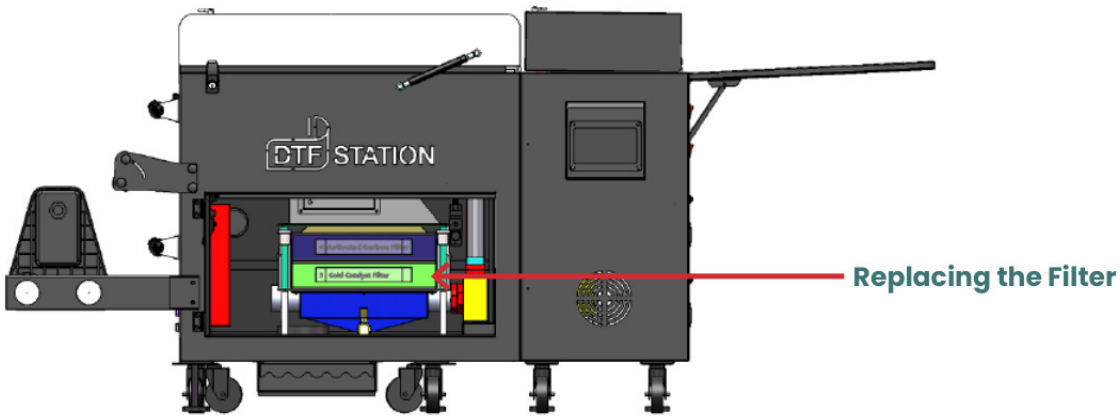
Depending on actual printing speed, pattern size, and width, check the powder level in the chamber every 20 minutes to 1 hour. Add new powder as needed, or recycle and reuse the powder collected from the two drawers at the base of the machine. The recommended single fill amount is 0.8 kg; this can be adjusted appropriately based on the powder consumption rate.




## 5.1 Replacing the Filter

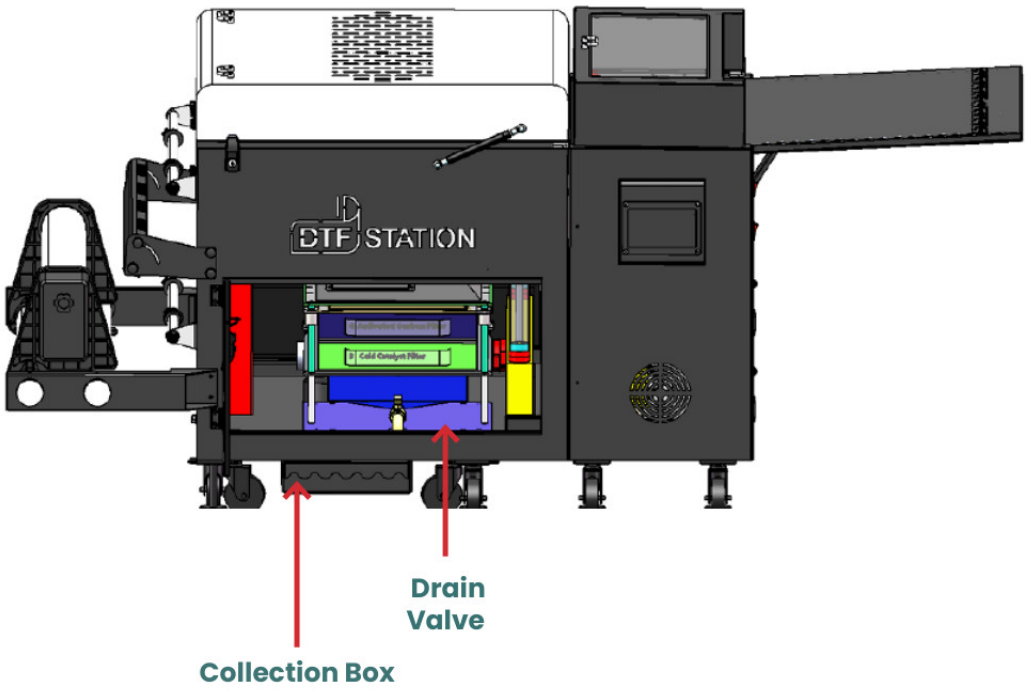
Each machine is supplied with one set of filters: one Cold Catalyst Filter and one Activated Carbon Filter. We recommend keeping a spare set so you can rotate them. After every 100 meters of printing, or at the end of each day, remove the filters to air-dry in a well-ventilated, shaded area and install the spare set. If the filters become visibly blackened and saturated, or if smoke appears quickly after installing a filter, replace it with a new set.

Do not wash the filters. When installing, place the Cold Catalyst Filter in layer 1 and the Activated Carbon Filter in layer 2, with the "THIS SIDE UP" label facing up. Reinstall filters only when completely dry.



# 6. Draining Oil and Cleaning Sponge

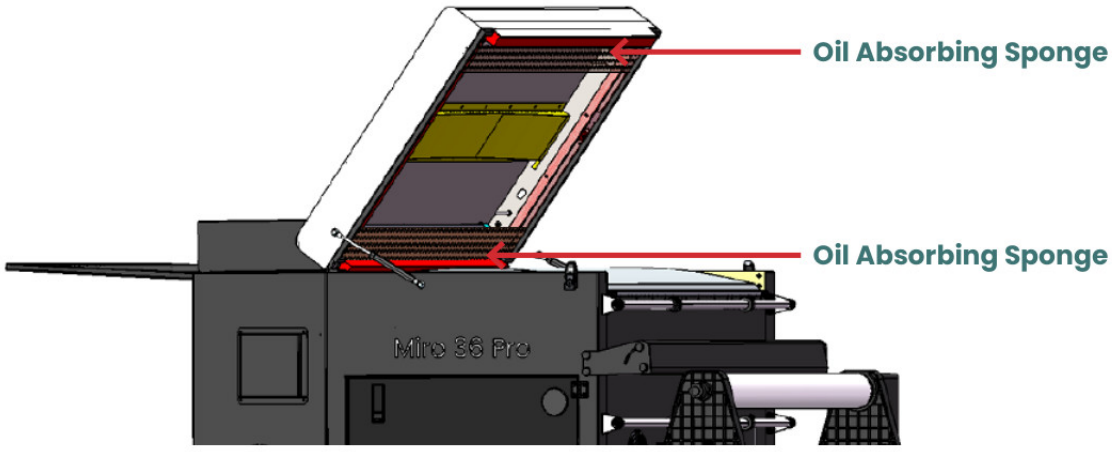
After daily printing, turn the drain valve to open it, then slide out the bottom platen to release the oil into the collection box. Before the next printing session, close the valve and clean the collection box.



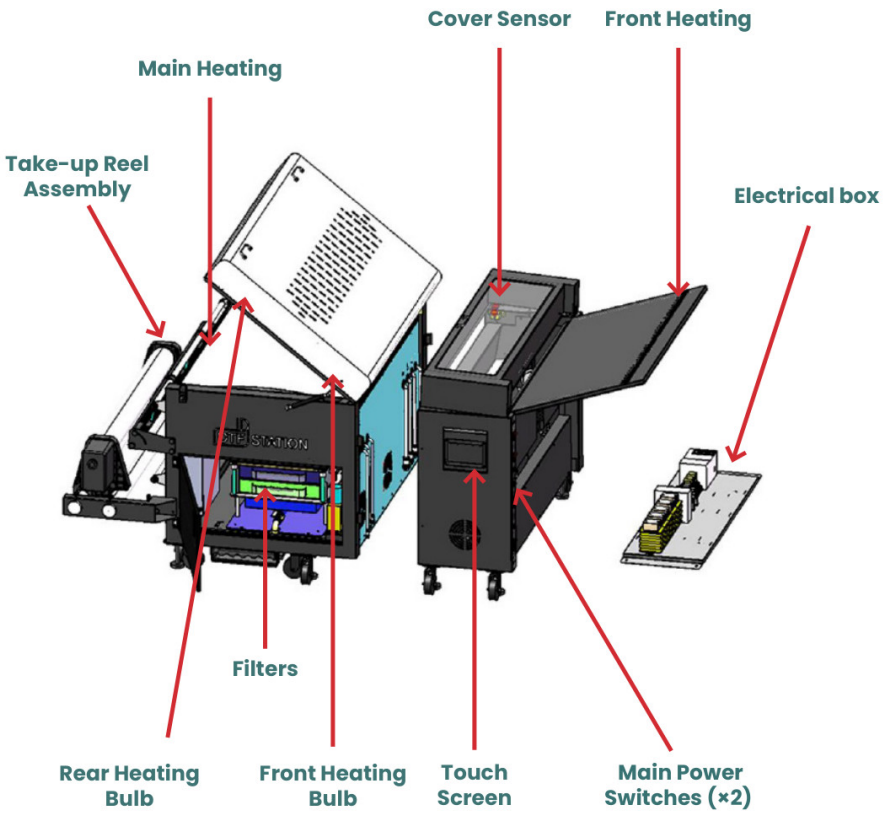

## 6.1 Cleaning the Sponge

Check the sponge after daily printing and maintain it as needed:

- Light Oil: If only slightly wet, wipe it with a dry cloth and place it in a well-ventilated, shaded area to air-dry naturally.
- Heavy Oil / Aging: If the sponge is heavily saturated for a long time, or if it becomes brittle/aged, do not wash it. Replace it with a new sponge directly.



# 7. Exploded View




**INSTALLATION AND SETUP OF THE MIRO 36 PRO ARE NOW COMPLETE.**

Thank you for using this product.