

GALLERY

DTF



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A3 Powder Shaker Machine - 110V

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Gallery A3 Powder Shaker Machine - 110V

The Gallery A3 powder shaker machine is designed to work in conjunction with roll fed DTF printers that print film up to 13 inches wide.

The powder shaker works independently of the printer, where the take up reel motor advances only when film drops below the sensor inside the main powder area. This allows the printer to be set to any speed and the powder shaker will automatically adjust itself. Film can be wound on the take up reel either clockwise or counterclockwise depending on user preference.

Loading Film Into The Powder Shaker



The A3 powder shaker is designed to work with printers that have continuous output. Whenever the printer stops, The shaker's take-up reel also stops, so it is important to be aware that the heater oven continues to operate and could potentially melt film in the chamber unless the oven section is turned off. The oven section should only be turned on when film is advancing through the powder shaker.



How To Use A Leader

In cases where you want to economize on film, it is possible to re-use a 6-foot piece of leader multiple times by attaching the fresh film to the leader with heat resistant tape. Similarly, it is possible to add a tailer to the end of the film when printing has finished so that film can still be fed through the shaker for end-of-film curing. Note that any film that has been in contact with powder should NEVER be placed back in the printer to prevent clogging the printhead with powder.

Control Panel



Control Panel

The main control panel allows adjustment of powder delivery speed, clapper speed to knock off excess powder and curing temperature in the heating section.

1. MAIN POWER SWITCH
2. PRESENT VALUE OF TEMPERATURE
3. SET VALUE OF TEMPERATURE
4. HEATER ON/OFF
5. TARGET TEMPERATURE UP/DOWN
6. CLAPPER ON/OFF
7. SET CLAPPER SPEED +/-
8. POWDER ON/OFF
9. SET POWDER SPEED +/-

Recommended Control Panel Settings

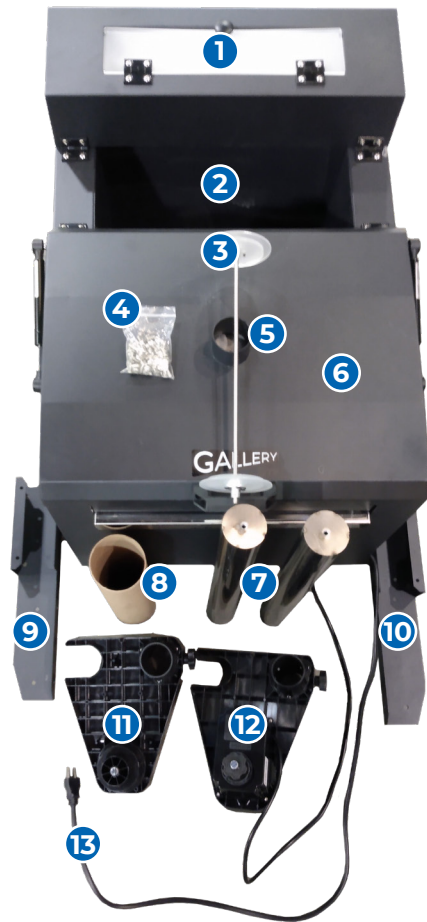
The specific starting temperature for curing the powder will depend on the brand, as different brands may have different melting points. The powder manufacturer may publish their temperature specs, but in general, you should start with a low temperature (approx 90 degrees F / 32 degrees C) and slowly increase heat until you achieve sufficient temperature to cure your brand of powder as used with your typical print speed. As your print speed increases, you may have to increase the oven temperature to compensate. Properly cured powder should be shiny dry with an orange peel texture.

If you have previously been using a bottom heated manual oven, you may find that the A3 automatic shaker will cure the powder faster and at a lower temperature, since a bottom heated manual oven first needs to heat the film and inks before getting to the powder.

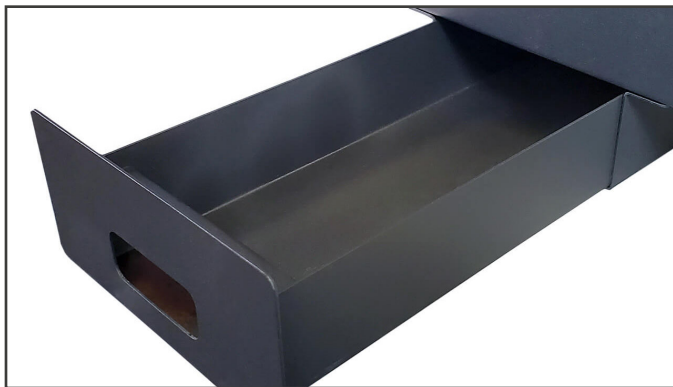
Unless your artwork is particularly large, starting with the lowest speed settings for powder dispersal and clapper motors should be sufficient.

Assembly Instructions:

After opening the crate, check to see that you have the pieces listed in the photo below:



1. POWDER HOLDER
2. POWDER APPLICATION AREA
3. POWDER SPILLOVER CONTAINMENT BAR
4. BAG OF SCREWS
5. EXHAUST VENT:
When using the shaker oven, you must either attach an optional air filter machine or otherwise vent exhaust fumes to the outside of your building.
6. HEATING AREA (UNDER THIS COVER)
7. TAKE UP REEL ROLLER BARS
8. EMPTY TAKE UP REEL CARDBOARD TUBE
9. LEFT TAKE UP REEL BRACKET
10. RIGHT TAKE UP REEL BRACKET
11. LEFT TAKE UP REEL HOLDER
12. RIGHT TAKE UP REEL HOLDER WITH MOTOR
13. 110V POWER CORD



Powder Catch Tray

The powder catch tray at the bottom of the shaker can be removed and powder can be reloaded into the top powder holder.



Take Up Reel Power Switch

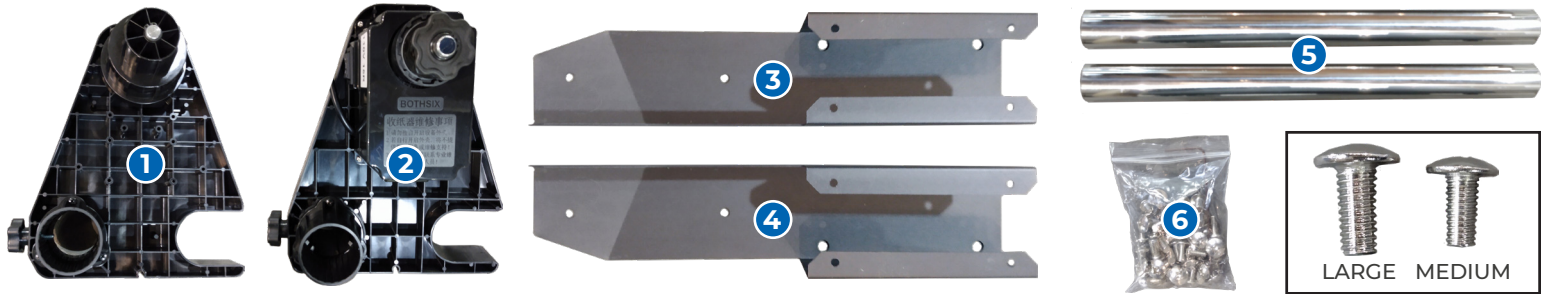
The power switch for the take up reel motor is separate from the main control panel.

Centered = OFF

Up/Down = Enabled

Note: Motor only advances once film sensor inside powder chamber is triggered.

Assembly Instructions (Continued):

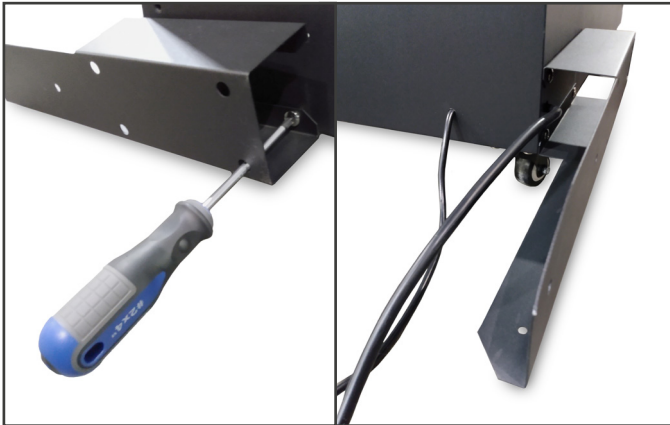


Take Up Reel Assembly:

Assembly of the Takeup reel can be accomplished with a screwdriver.

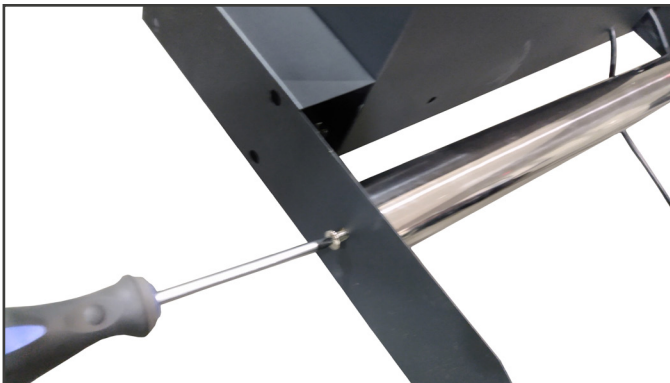
You will need the following pieces:

1. LEFT TAKE UP REEL HOLDER
2. RIGHT TAKE UP REEL HOLDER WITH MOTOR
3. LEFT TAKE UP REEL BRACKET
4. RIGHT TAKE UP REEL BRACKET
5. TAKE UP REEL ROLLER BARS
6. BAG OF SCREWS (Large & Medium Screws Will Be Used. Extra screws are for optional accessory - ignore for now))



Step 1: Take Up Reel Assembly

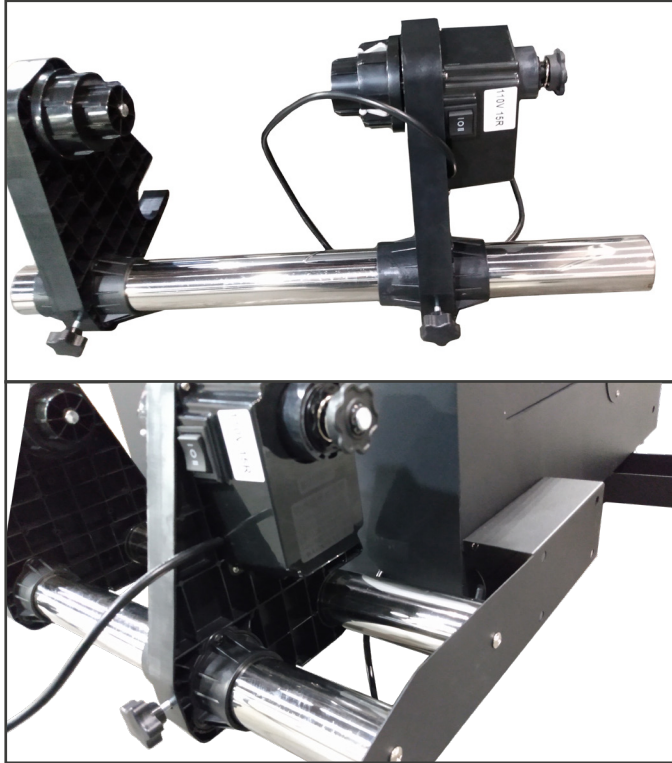
Using the Large screws, attach the left & right brackets with 4 screws on each side of the powder shaker machine.



Step 2: Take Up Reel Assembly

Using the medium screws, attach the back take up reel roller bar.

Assembly Instructions (Continued):



Step 3: Take Up Reel Assembly

Thread the 2 black holders onto the front roller bar and then screw into place.



Step 4: Powder Spillover Control Bar

Adjust the small powder spillover control bar to maximum width and place in the bottom of the shaker machine.

The spillover control bar attempts to keep powder away from the edges of the bottom tray

Note: Use of the powder spillover control bar is optional.



Your correctly assembled powder shaker system should look like this



**Congratulations On Your Purchase Of
The Gallery A3 Powder Shaker Machine.**