Form 2 Instructions Manual

MAKERSPACE - CCNY

# Personal Protective Equipment

Before using the Form 2:

1. Always wear clean gloves when handling resin or resin-coated surfaces.

2. Always wear clean gloves when handling optical surfaces.

3. Some methods of support removal may enable small pieces of supports to break away. Beware of flying debris and consider wearing eye protection and gloves to protect the skin and eyes.

Form 2 Parts

1. Cartridge

2. Cover

3. Build Platform

4. Resin Tank

5. Wiper

6. Touchscreen

7. Button

8. Leveling Tool
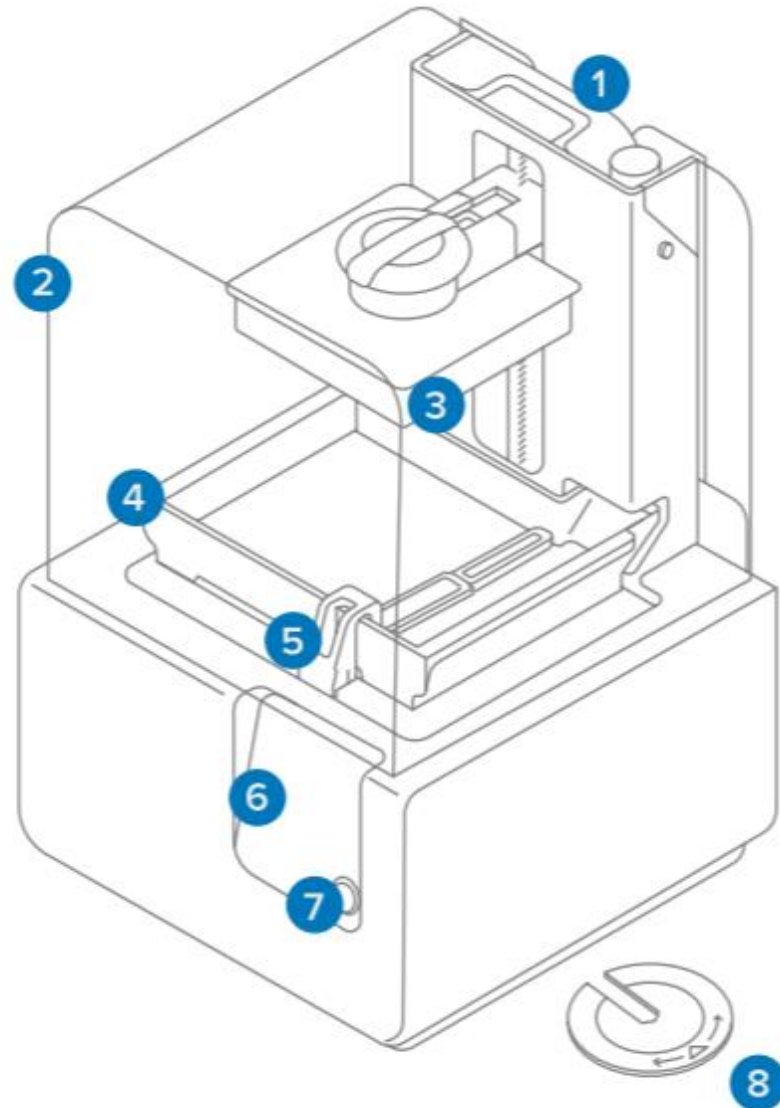
Download PreForm

- Download the PreForm software in the following link: https://formlabs.com/software/#preform

Optimize Your Print Processes in PreForm

Design your model in standard CAD software, then import the STL or OBJ file into our print preparation software, PreForm. Get your model ready in minutes, upload to your printer, and let it build.
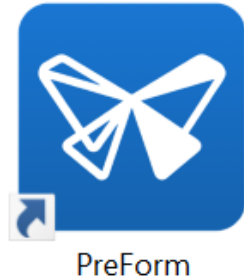
Download PreForm

Download PreForm (Mac)

Download PreForm (Windows)

OS X 10.12 or higher

Requirements

Windows 7 (64-bit) or higher.

Requirements

Prepare File for Printing
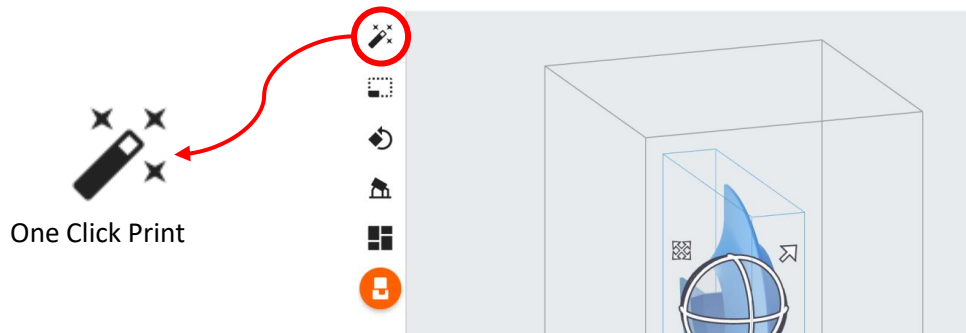
1. Open PreForm.


PreForm

2. Open an **STL** or **OBJ** file.
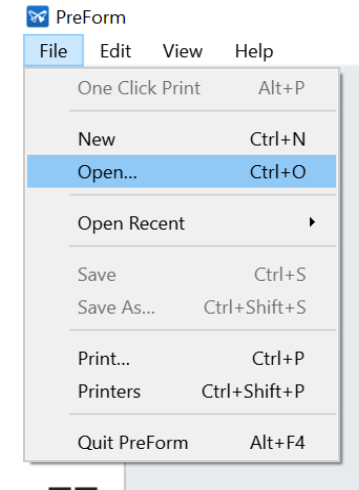
3. There are two ways to set-up the printer, the first one is to select One Click Print. PreForm will do an automatic scale, orient and create or modify the supports for each model. If you select this option, **skip to step** eight.
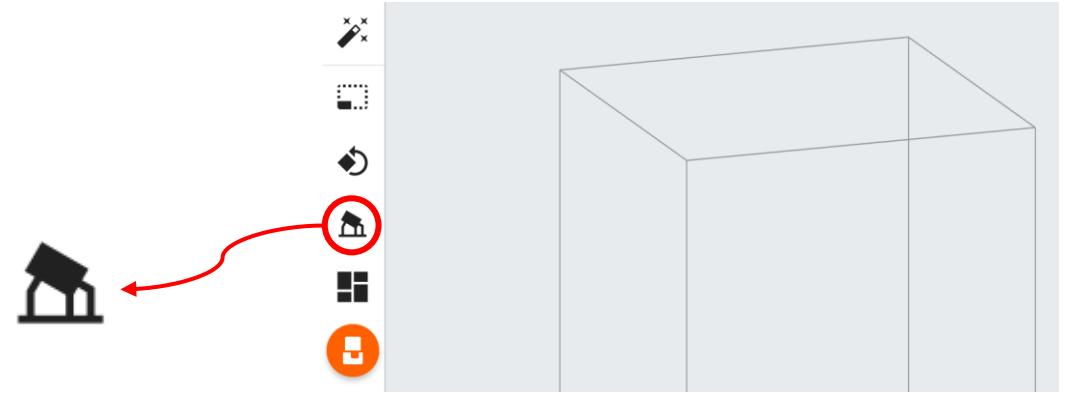

One Click Print

4. The second way is to set up the print manually. First, select the **Size** tool to adjust the measurements of your model.
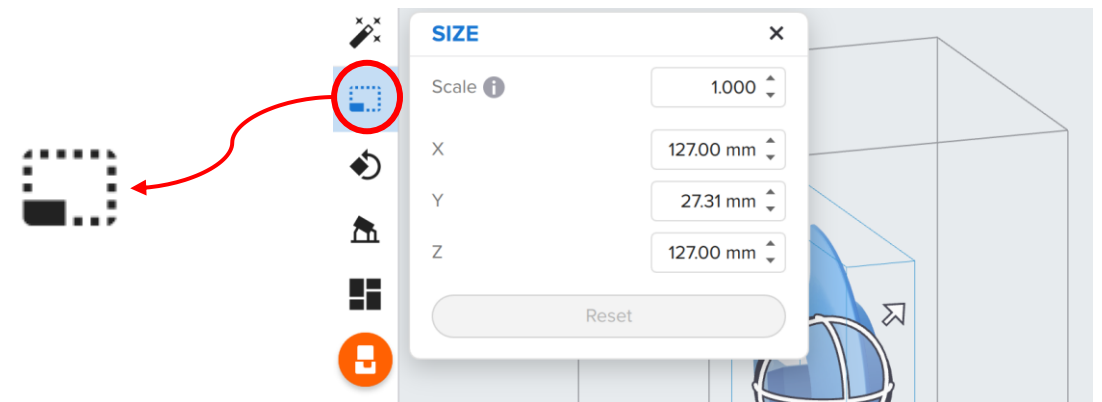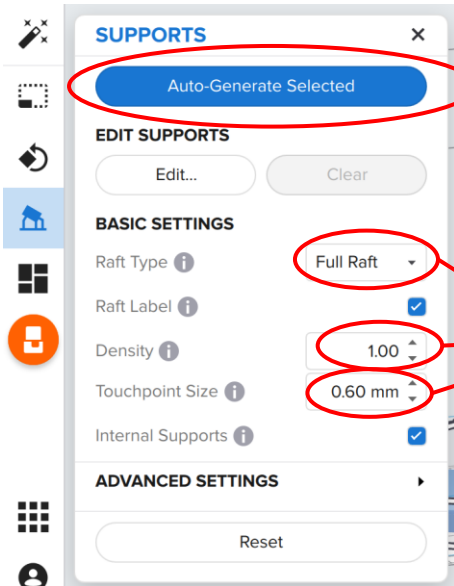
5. Then, select the **Orientation** tool to place the model into the best printing position.
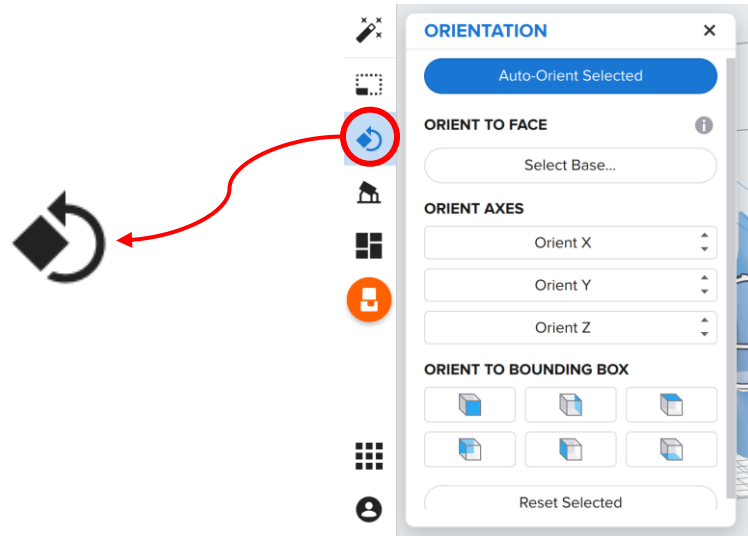
6. Next, select the **Support** tool to generate the necessary supports that the model needs.

7.

Click on Auto-Generate Selected button to create the supports.

Depending on the desired finish of your model, adjust this settings to change the supports.
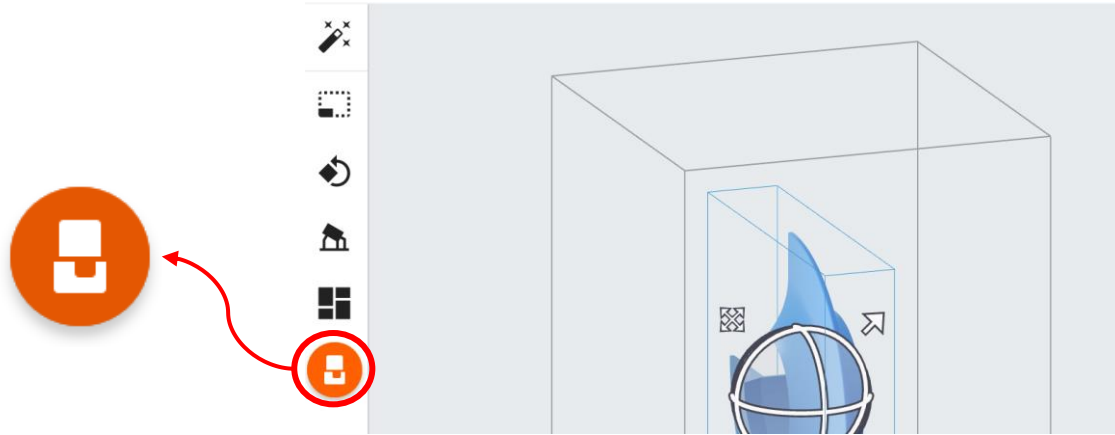
8. When the printability of your model is good to go, save the print as a FORM file.

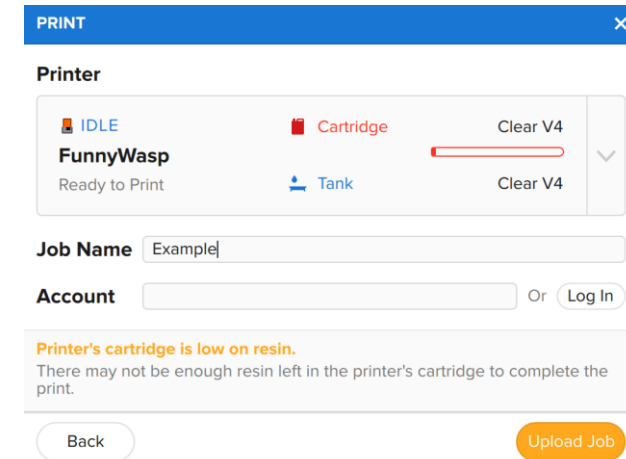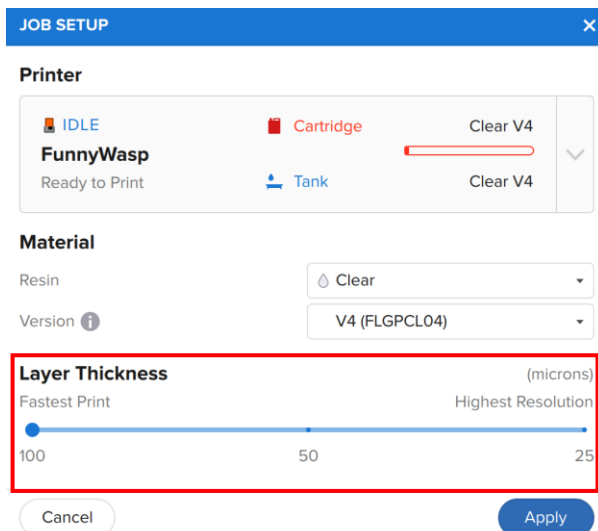**9.** To start the upload process, select the orange printer icon in the PreForm toolbar.
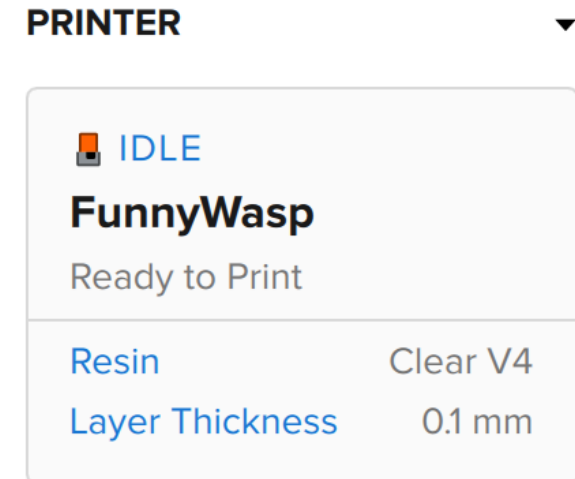

10. Select which printer to upload the file to from the printer dialogue. In this case, select FunnyWasp

11. Select the desired Layer Thickness of the print.

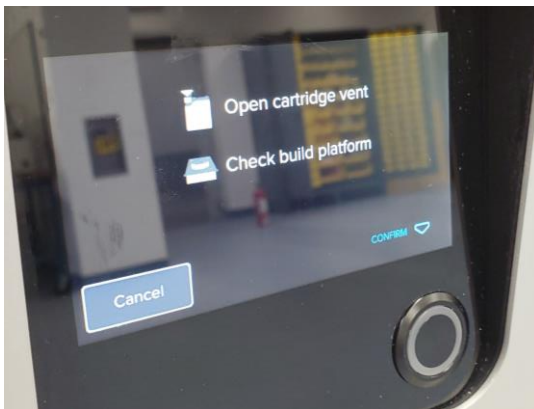**Note:** Make sure to select FunnyWasp as the printer.

Confirm Print on Printer

1. Form 2's touchscreen displays the FORM file's upload in progress.

2. Select the file name and then select Print Now.

3. Confirm that the cartridge vent is open and the platform is in place.
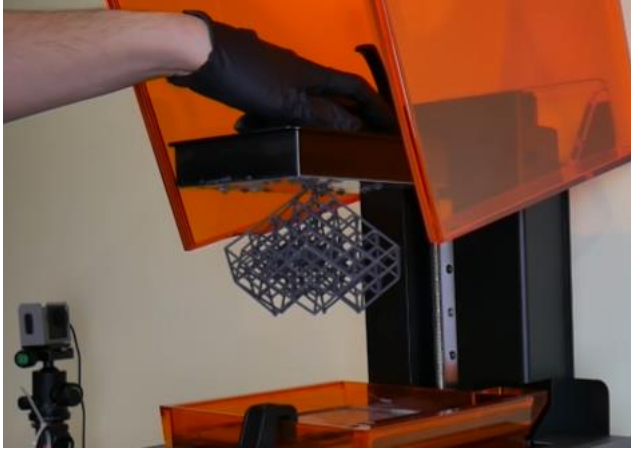

4. Follow the onscreen prompts. The Form 2 automatically fills and warms the tank. The print starts automatically
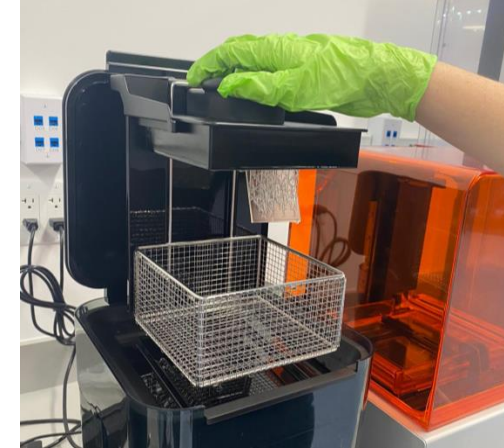
Wash Your Print

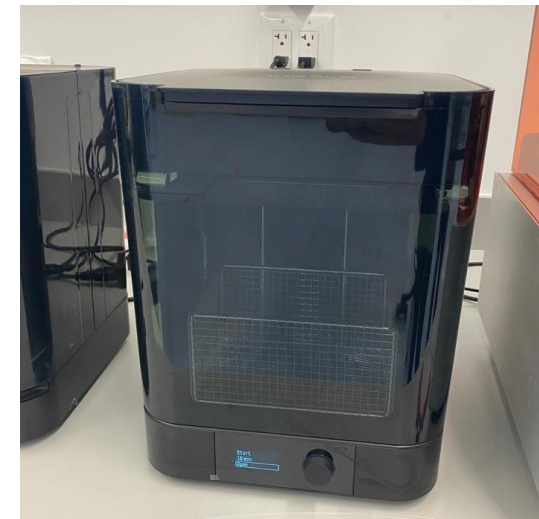**1.** Remove the build platform from the printer with gloves

2. Place the buid platform directly from the printer to the Form Wash

3. Set up the washing time according to the Form Wash Settings
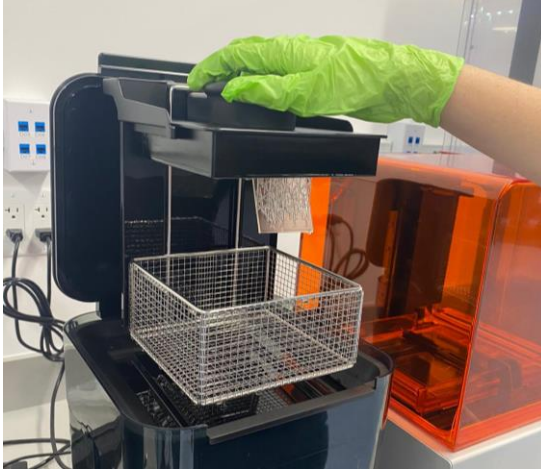

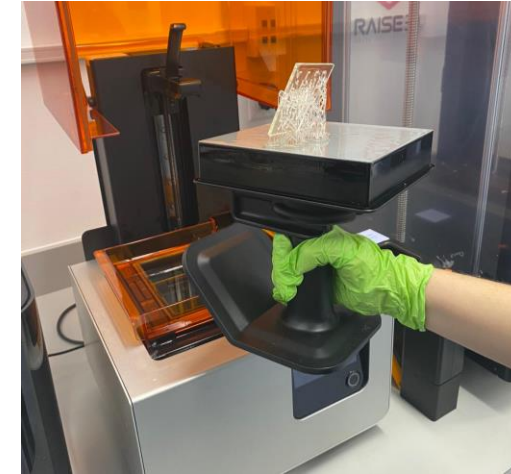**4.** Press Start and the wash starts automatically

Remove Your Print

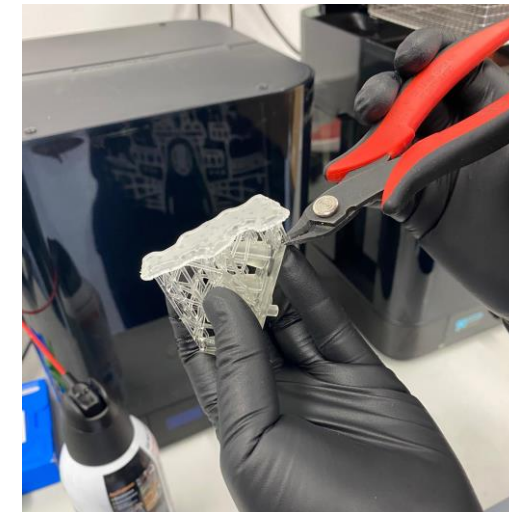**1.** Remove the build platform from the Form Wash with gloves

2. Attach the build platform to the jig

3. Slide the removal tool under the base of your prints to release the part
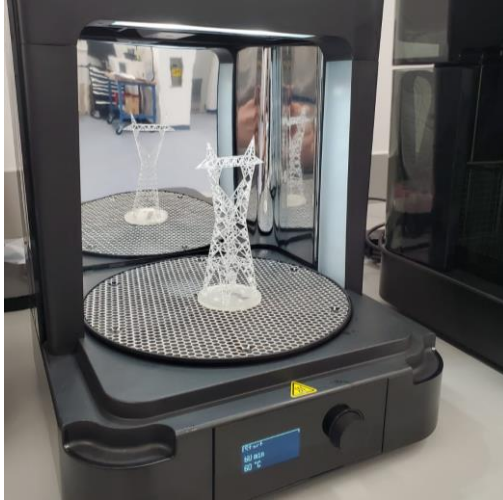

4. Cut the supports and allow your print to fully dry before placing it in the Form Cure.
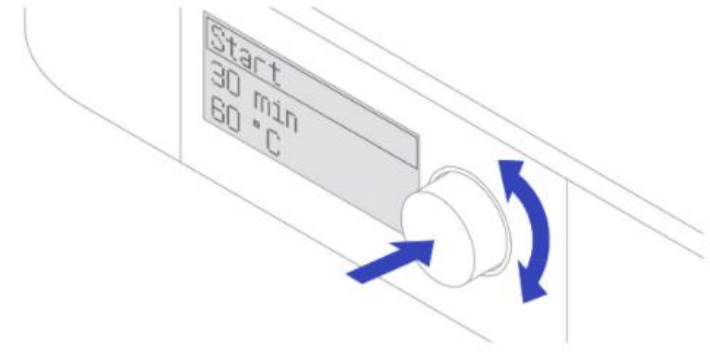
<u>Cure Your Print</u>

1. Insert washed and fully dried parts into the Form Cure

2. Set up the curing time according to the Form Cure Settings

3. The LEDs and heater turn off automatically at the end of the post-cure cycle. Lift the cover to remove parts.

4. Enjoy your print