FormLabs Form 2 SLA 3D Printer

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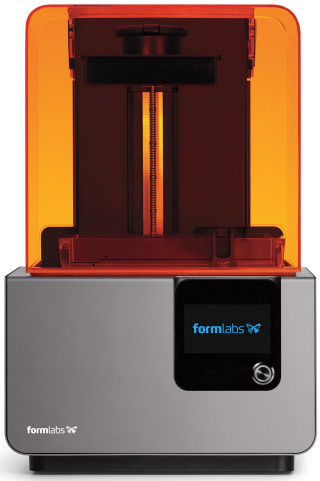
Tool Type: “3D Printer”
Location: “Innovations Workshop”

Supervisor	Tool Lead
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Description: “Stereolithographic 3D printer”	
Manufacturer: “Formlabs”	

About

The Form 2 Printers (Magnificent Ram and Electric Colt) are located in Fume Hood #2 in 2448 Elings Hall.

The Form 2 printers are liquid resin stereolithographic 3D printers capable of producing high resolution accurate models out of a variety of materials. Liquid resin printers use a bath of reactive resin which is precisely cured using specific wavelengths of light. This printer is particularly well suited for thin high aspect ratio features and models requiring great surface accuracy.

Detailed Specifications

Build Volume:

Safety Concerns

The resin used in the Form 2 3D printers is considered hazardous. Gloves are to be warn when replacing or removing build plates, build tanks, and resin cartridges. Refer to SDS for disposal and health hazards.

Operating Procedures

1. Check resin cartridge and tank, make sure build material matches and is desired material.
2. If resin is not desired material, disconnect wiper at build tank, remove build plate by sliding towards front of fume hood. Remove cartridge, cap valve on bottom and close valve on top of cartridge. Replace build tank, wiper, and cartridge with desired material.
3. Launch Preform on Ultimaker computer
4. Import desired STL
5. Select “one click print” in the top left corner menu, change position, orientation, resolution and support as desired (note: that Preform will report on print ability of model, changing part rotation can affect print ability.
6. Select print (orange button) from top left menu
7. Select desired printer
8. Press button on Formlabs printer to start print

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Reference Documentation

Form 2 design specifications
https://support.formlabs.com/s/article/Design-Specs?language=en_US

flexible_resin_sds_eu.pdf

formlabs_clear-sds.pdf

durable_resin_sds_eu.pdf

Training Documentation

form_2_teaching_handout.pdf

Safety Concerns

See SDS for desired resin material.

Training Outline

Key Points and Operating Checklist