FormLabs Form4 3D Printers

Form 4
Tool Type: 3D printer
Location: Elings 3430
Description: Stereolithographic 3D printer
Manufacturer: Formlabs

About

The Form4 Printer is located in the Innovation Workshop on the countertop in 3430. Compared to the Form3's, the Form4 prints 2-5x faster and allow for increased build volume, as well as more features which you can read about here: Form4 improvements

The FormLabs 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.

Based on the material and application, some prints will benefit from post process UV curing to strengthen and harden the finished part. See part curing documentation in UV FormCure reference documentation.

The Form4 uses its own resin cartridges and build platforms, that are not cross compatible with the Form3 printers. The same wash and cure as used with the Form3 printers are used for post processing with the Form4.

Safety Concerns

The resin used in the FormLabs 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.

Training Documentation

form_4_sop.pdf

Post-Processing

Form Wash Cleaner

FormCure UV Curing Station

Advanced Post-Processing Webinar from FormLabs

Glossy Top Coat Treatment

Detailed Specifications

Build Volume: 14.5 x 14.5 x 17.5 cm (L x W x H)
X,Y Accuracy: ~150 ish microns
Layer Thickness: 25-300 microns
Printable Materials: Standard resin (clear or available colors), Durable resin, Flexible resin

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Reference Documentation

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

Guide to printing with clear resin

FormLabs Materials Guide

Design Specifications, such as minimum feature size, minimum overhang angle, etc.

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