Stratsys F270 FDM 3D Printer

Stratsys F270 FDM 3D Printer	
Tool Type: "F3D printer"	
Location: "Innovations Workshop"	
Supervisor	**Tool Lead**
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Description: "FDM duel extrusion 3D printer"	
Manufacturer: "Stratasys"	

About

The F270 is a fast and precise filament fed fusion deposition printer. Typically set up with ABS and a propitiatory Ecoworks soluble filament. Requires heated sodium hydroxide bath to remove support material.

Detailed Specifications

Build area: 308 x 254 x 308 mm
Duel extrusion 3D printer (build and support material)
capable of printing PLA, ABS, ASA, QSR
.254 mm min layer thickness
tolerance of +/- .200 mm

4 spool bay

Safety Concerns

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Operating Procedures

1. On the F270 printers computer, launch GrabCad Print
2. Select File → New Project → Add Models → Import desired models
3. Move models around on virtual build tray so that models on a used build tray do not overlap any previously printed spots
4. the purge block and printed model should be placed close together to minimize print time
5. Select "Print Settings" from the menu on the right hand side
6. From menu, select desired slice height, and verify that the first layer material is set to support.
7. Open and place build tray into F270, making sure that the tray is locked in place by pulling up on the front locking arm until arm is PARALLEL to build tray.
8. Select print, and send the job to the F270 3D printer
9. on the F270 touch screen, select your job, and then select print.

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Reference Documentation

bp_fdm_supportremoval.pdf

f123_series_operation_and_maintenance_rev_a.pdf

sds_ecoworks_msds.pdf

stratasys_f123_series_user_manual_.pdf

GrabCAD Tips, Guides, and FAQs https://help.grabcad.com/category/193-tips-guides-and-faqs

Changing F270 fillament https://www.youtube.com/watch?v=LFdPajgFTDk

Printing using the F270 https://www.youtube.com/watch?v=t8KyZYLnGIk

Training Documentation

FDM Printer SOP

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notes_on_post_processing_f270_parts.pdf

failed_3d_print_procedure.pdf

Maintenance Schedule (see user maintenance page 80):

- Clean oven chamber weekly
- Clean platen weekly
- Inspect, wipe, and clean tip wipe assemblies monthly
- Clean exterior of printer as needed
- Clean touchscreen as needed

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