Ultimaker3 Extended Dual FDM 3D Printer



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Tool Type: "FDM 3D printer"

Location: "CNSI Innovations Workshop"

| Supervisor | Tool Lead |
|-----------------------|----------------------|
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Description: "FDM 3D Printer" **Manufacturer:** "Ultimaker"

About

The Ultimaker 3 extended is a filament fed fusion deposition 3D printer capable of simultaneously printing two different plastics at once. Typically the printer is set up with ABS as a build material, and PVA as a solvable support material.

Training

FDM Printer SOP Ultimaker 3 Quick Review

Detailed Specifications

Build Volume: 215 x 215 x 300 mm
Filament diameter: 2.85 mm

• layer resolution: 60 to 600 microns depending on print head (see Specifications documentation

page 11)

XYZ accuracy: 12.5, 12.5, 2.5 microns
Build plate temperature: 20-100 °C
Nozzle temperature: 80 - 100 °C

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Safety Concerns

- The print heads can be very hot do not touch them with bare hands unless positive they are cool.
- As with any automated machinery make sure that your body is clear of the moving parts to avoid injury.
- The support removal tank for the F270 is filled with heated caustic chemicals that dissolve the support material. An apron, Gloves, and a face shield must be warn when inserting and removing parts or basket from tank.

Reference Documentation

PVA Temps

Extruder: 220 C Bed: Whatever structural filament recommends

ABS Temps

Extruder: 230 C Bed: 100 C

quick_start_guide_ultimaker_3_v3.2.pdf ultimaker_3_extended_specifications.pdf um180129_ultimaker_3_manual_rb_v12_english.pdf

https://support.ultimaker.com/hc/en-us/articles/360012007119

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