

Ultimaker 3 Extended/S5 Dual FDM 3D Printer

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Tool Type: 3D printer

Location: Innovation Workshop

Description: FDM 3D Printer

Manufacturer: Ultimaker

About

The Ultimaker 3 extended & Ultimaker S5 are filament fed fusion deposition 3D printers 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.

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 worn when inserting and removing parts or basket from the tank.

Training Documentation

[FDM Training SOP](#)

Detailed Specifications

Ultimaker 3 Extended:

- 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: up to 210 °C

Ultimaker S5:

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>

[pva_drying_recipe.pdf](#)

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