Ultimaker 3 Extended/S5 Dual FDM 3D Printer

Last updated: 5/31/23 Haley

Ultimaker 3/S5

Tool Type: 3D printer
Location: Innovation Workshop
Description: Duel extrusion 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.

Training Documentation

FDM Training SOP

Detailed Specifications

Ultimaker 3 Extended:

- Build Volume: 215x215x300 mm for right or left nozzle, 197x215x300 mm for dual material
- Filament diameter: 2.85 mm
- XYZ resolution: 12.5, 12.5, 2.5 microns
- Build plate temperature: 20-100 °C
- Nozzle temperature: 180-280 ºC

Ultimaker S5:

- Build Volume: 330x240x300 mm
- Filament diameter: 2.85 mm
- XYZ resolution: 6.9, 6.9, 2.5 micron
- Build plate temperature: 20-140 °C
- Nozzle Temperature: 180-280 °C

Reference Documentation

PVA Temps:
Extruder: 220 C Bed: Whatever structural filament recommends

ABS Temps:
Extruder: 230 C Bed: 100 C

ultimaker s5 specs

ultimaker 3 extended specs
Quick start guide
um180129_ultimaker_3_manual_rb_v12_english.pdf
https://support.ultimaker.com/hc/en-us/articles/360012007119
pva_drying_recipe.pdf
ultimaker_filaments_-_sheet1.pdf
failed_3d_print_procedure.pdf