## **Ultimaker3 Extended Dual FDM 3D Printer**



Ultimaker3 Extended Dual FDM 3D Printer

Tool Type: "FDM 3D printer"

**Location:** "CNSI Innovations Workshop"

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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** 

### **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

## **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

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