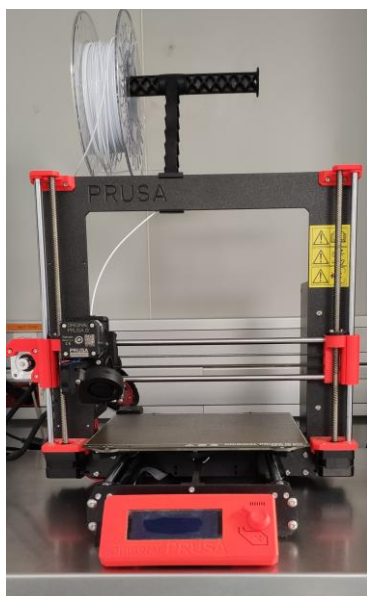


Extrusion 3D Printer



Fabrication of 3D sub-millimeter structures

Our extrusion 3D printer uses thermoplastic filaments to create sub-millimeter 3D structures (as small as 400–500 μm) from CAD files. While this tool does not achieve micrometric resolution and is not suitable for biomedical device fabrication, it is currently employed to produce small laboratory accessories with satisfactory precision. These components are integrated into existing lab equipment as replacements, or functional gadgets.

Technical specifications

- Printing volume: 250 mm \times 210 mm \times 210 mm (X \times Y \times Z)
- Layer thickness range: 0,05 mm - 0,035 mm
- Current nozzle diameter: 0,4 mm
- Maximum displacement speed: 200 mm/s
- Maximum nozzle temperature: 300 °C
- Maximum printing bed temperature: 120 °C

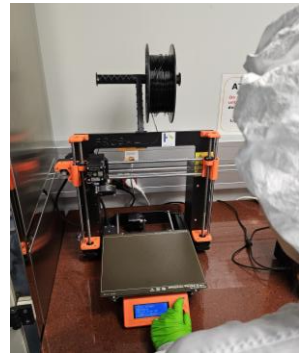
Available materials*

- White and black PLA filament
- White and black PETG filament

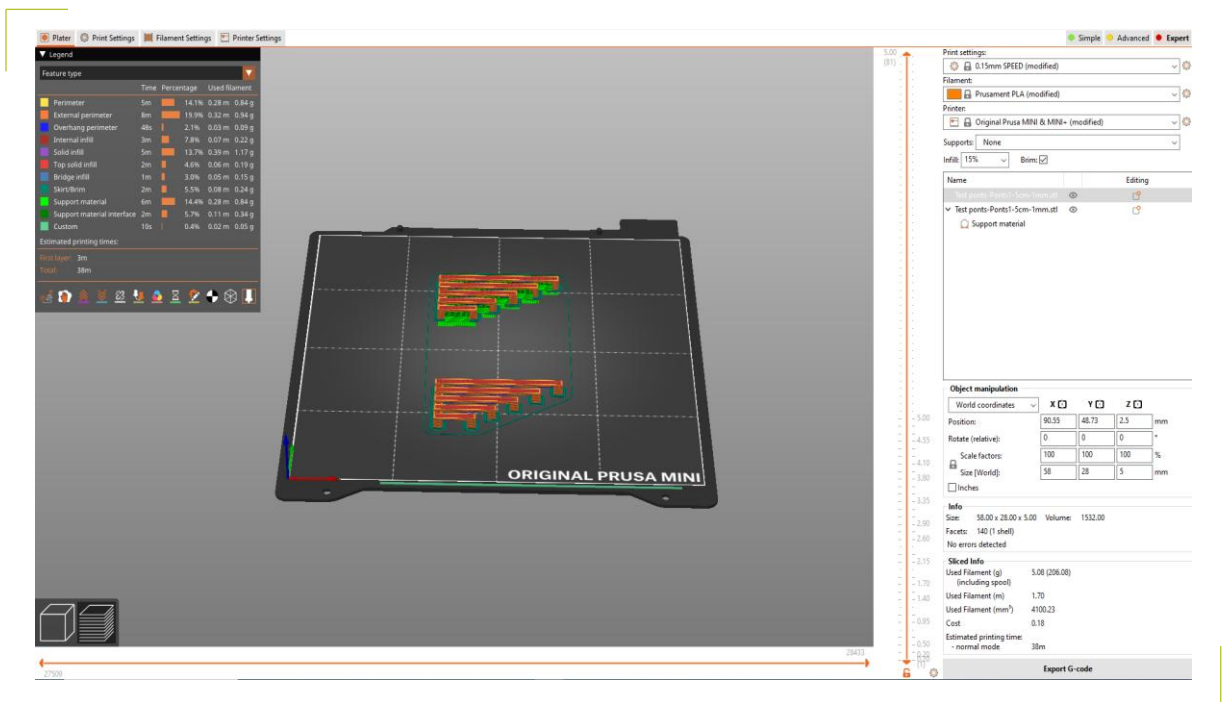
* Possibility to implement new materials under demand.

Manufacturer
Prusa Research a.s.

Model
Original Prusa I3 MK3S+



Extrusion 3D Printer



Available software: Prusa Slicer

- User friendly interface, with full information about the printing parts of the design
- Automatic suggestion of printing improvements
- Support Detection (accurately detects islands that require supports in a print)
- Printing material library