

Specifications

Printer Type: FFF – Fused filament fabrication is an additive manufacturing technology commonly used for modeling, rapid prototyping, and production applications.

Build Area: 1 meter x 1 meter x 0.5 meter
(39.3" x 39.3" x 19.6")

Layer Resolution: Down to 70 microns (0.0027")

Note: Accuracy is dependent upon slice settings, geometry, print speed, filament quality, and a range of other factors. Under average conditions, it is typical to hold layer resolution of 100 microns with a well-tuned and calibrated printer configuration.

Material Compatibility: The 3DP1000 printer is capable of printing materials which are created for Fused Filament Fabrication (FFF), including but not limited to PLA (Polylactic Acid), ABS (Acrylonitrile Butadiene Styrene), PC (Polycarbonate), Nylon, Ninja Flex, PVA (Polyvinyl Alcohol) and HIPS (High Impact Polystyrene).

Note: Some materials may require increased bed and nozzle temperatures, as well as additional ventilation.

Filament Diameter: 3 mm (0.118")

Standard Nozzle Diameter: 0.4 mm

Connectivity to Laptop: USB

Non-Standard Options: Consult factory for non-standard options such as dual extruder, enclosure system, and other special requirements.

RECOMMENDED SOFTWARE

- **Repetier Host & Slic3r**

www.repetier.com; www.slic3r.org

Repetier Host is free, open source software used to operate your 3D printer – with controls for temperature, speed, flow, and movement. It includes an interface with Slic3r, which is used for processing files, cutting a model into horizontal slices—called layers—generating tool paths to fill them and calculating the amount of material that will be extruded. *Open source, no cost.*

or

- **Simplify 3D**

www.simplify3d.com

Simplify 3D is an easy-to-use program used to import, repair, slice, preview, and print all from the same application. This a simplified alternative to other programs. *Available for purchase.*

Note: Repetier Host and Slic3r are used in conjunction and can be downloaded simultaneously from the Repetier Host website. Simplify 3D is used singularly to manipulate files and operate the printer.

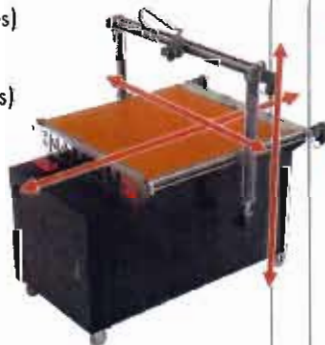
PHYSICAL DIMENSIONS & WEIGHT

Overall Width:
1.422 meters (56 inches)

Overall Depth:
1.676 meters (66 inches)

Overall Height:
1.524 meters
60 inches

Approx. System Weight: 400 lbs.



SHIPPING INFORMATION

Crate Dimensions:
1.524 m x 1.828 m (5 ft x 6 ft)

Approx. Shipping Weight: 1200 lbs.

Ambient Operating Temperature Needed:

15° - 32°C (60° - 90°F)

ELECTRICAL

AC Input: Option 1: 110 V, 15 Amp, 60 Hz
Option 2: 220 V, 13.6 Amp, 60 Hz

3600 WATTS

MECHANICAL

Build Platform: Heated borosilicate glass, 5 mm thick

XYZ Axes: Lead screw driven SIMO® Series linear actuators from PBC Linear®. Screw max values: 640 RPM, 16000 mm/min, 267 mm/sec.

Stepper Motors: Nema 23 stepper motors from Applied Motion Products with integrated amplifier and 800 micro-stepping (as set at factory). M/S option up to 25000 available.