zortrax

M300 Plus
Print big models in one go

Architecture modeling

Automotive parts

Aerospace prototyping

Medium-scale manufacturing

Production lines support

Prosthetics & orthotics

Extrusion
Single

Resolution
90-290 microns

Build volume
300 x 300 x 300 mm
11.8 x 11.8 x 11.8 in

Zortrax M300 Plus 3D printer

❯ Large workspace

The M300 Plus workspace is one of the largest among desktop class 3D printers. It allows printing big models in one go without breaking them down into separate parts that need to be assembled. That's particularly important when durability is of the essence as joints are usually the weakest spots in the structure.

❯ Remote management

Manufacturing output increases with the number of 3D printers working on the project and the M300 Plus is designed to work in 3D printing farms. Multiple machines can be controlled remotely from one workstation over Ethernet or Wi-Fi.

❯ Rock-solid performance

Working cycles on large volume 3D printers tend to be longer than on smaller machines which makes reliability even more important. The M300 Plus is based on a proven M300 design capable of running for many hours without failure at world-leading organizations like NASA.
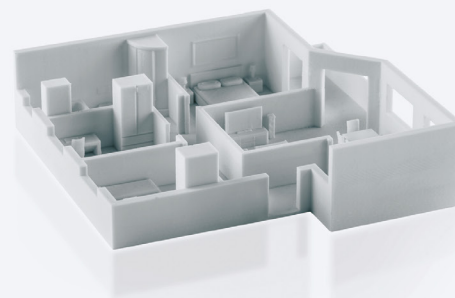
❯ Wide range of filaments

The M300 Plus works with all 1.75 mm filaments available on spools. It can print with challenging materials like flexible TPU or with highly durable nylon. Professional users are thus free to choose the right filament for their projects and rely on the 3D printer to handle it with no issues.

Functional lamp

Car grille prototype

Apartment cross-section model

DEVICE

Build volume	300 x 300 x 300 mm (11.8 x 11.8 x 11.8 in)
Material container	Spool
Material diameter	1.75 mm (0.069 in)
Nozzle diameter	0.4 mm (0.016 in) − standard / 0.3 mm (0.012 in) / 0.6 mm (0.024 in)
Support	Mechanically removed - printed with the same material as the model
Extruder	Single (compatible with demanding materials like TPU or nylon)
Extruder cooling system	Radial fan cooling the extruder block; two fans cooling the print
Hotend	Single, V3
Platform	Heated; perforated and glass are applicable
Material endstop	Mechanical
Connectivity	Wi-Fi, Ethernet, USB
Operating system	Android
Processor	Quad Core
Touchscreen	4" IPS 800 x 480
Camera	Yes
External materials	Applicable

SOFTWARE

Software bundle	Z-SUITE
Supported input file types	.stl, obj, .dxf, .3mf
Supported operating system	Mac OS up to Mojave version / Windows 7 and newer versions

PRINTING

Technology	LPD (Layer Plastic Deposition) − depositing melted material layer by layer onto the build platform
Layer resolution	90-290 microns
Minimal wall thickness	400 microns (for 0.4 mm nozzle)
Platform levelling	Automatic measurement of platform points' height

TEMPERATURE

Maximum printing temperature (extruder)	290° C (554° F)
Maximum platform temperature	105° C (221° F)
Ambient operation temperature	20-30° C (68-86° F)
Storage temperature	0-35° C (32-95° F)

ELECTRICAL

AC Input	110 V ~5.9 A 50/60 Hz; 240 V ~2.5 A 50/60 Hz
Maximum power consumption	360 W

IN THE BOX

3D Printer, Hotend V3, Side Covers, Z-SUITE, Starter Kit, Z-PETG, Z-HIPS, Spool holder, USB memory stick