Scale It Up

Zortrax M300 Plus is a high-performance Wi-Fi 3D printer with a large workspace. Wireless connectivity enables it to work in huge 3D printing farms. Zortrax M300 Plus offers the same renowned reliability and quality of prints distinguishing all M series 3D printers. Its workspace measures 300 x 300 x 300 mm, which is enough to print big models in one go.

Zortrax M300 Plus uses the LPD technology, Zortrax's original take on Fused Deposition Modeling (FDM). It deposits melted thermoplastic filaments layer by layer to turn digital models into physical objects. FDM is the most cost-efficient 3D printing technology on the market which makes it perfect for rapid prototyping and manufacturing on tight budgets. It enables 3D printing with a wide variety of polymers with different mechanical, chemical and thermal properties.

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A full scale prototype of an automobile front grill element 3D printed on Zortrax M300 Plus in one go.

Big Models in One Go

Zortrax M300 Plus large workspace is particularly useful when 3D printing big models in one piece is needed. That's why it is a perfect choice for industries like automotive, aerospace and architecture. It's also an efficient short-series production device because the build platform can easily accommodate multiple models. A network of Zortrax M300 Plus 3D printers can be remotely controlled due to 3D printing farm management capabilities included in the Zortrax dedicated Z-SUITE software that comes free with all our 3D printers. In order to monitor the print conformity and minimize waste, Zortrax M300 Plus is equipped with a camera built-in inside the printing chamber, as well as new smart functionalities like the filament endstop mechanism.

Zortrax Ecosystem and Beyond

Zortrax M300 Plus is a part of a larger Zortrax Ecosystem comprising of Z-SUITE, an advanced slicing and farm management software, and a wide range of dedicated filaments designed to work with the printer. These include all the materials previously compatible with the original M300 and, Z-ULTRAT - a highly durable ABS-based polymer. The extruder has been redesigned. The hotend and nozzle geometry have been improved and an additional cooling fan has been added. This way Zortrax M300 Plus has been made compatible with flex-type materials among others. All 1.75 mm third-party filaments are also supported to cater to advanced users looking for more sophisticated applications.

Zortrax M300 Plus Main Features

- › Workspace measures 300x300x300 mm
- › Has Wi-Fi and Ethernet connectivity
- › Can work in 3D printing farms
- › Offers advanced remote management
- › Has a filament endstop mechanism
- › Has a built-in camera
- › Has an Intuitive LCD touchscreen
- › Axes geometry has been improved
- › Cooling system has been upgraded (double fan and extruder cooling)
- › Extruder has been upgraded (redesigned hotend v3 and nozzle with new geometry)
- › Offers compatibility with flex-type materials
- › Offers compatibility with Z-ULTRAT
- › Works with wide range of dedicated filaments
- › Supports third-party filaments

A full scale prototype of a motorbike fuel tank 3D printed on Zortrax M300 Plus with Z-HIPS.

Zortrax M300 Plus Technical Data

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)
Support	Mechanically removed - printed with the same material as the model
Extruder	Single (upgraded for more demanding materials)
Extruder cooling system	Radial fan cooling the extruder block; two fans cooling the print
Hotend	Redesigned (v3), new geometry of the nozzle
Platform	Perforated, heated
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 file types	.stl, .obj, .dxf, .3mf
Supported operating systems	Mac OS X / 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
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

Additional information

All information contained in this brochure and specification is subject to change without notice.

In the box

3D Printer, Hotend V3, Side Covers, Z-SUITE, Starter Kit, 2 spools of material, spoolholder

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