



Zortrax Inventure

PROFESSIONAL DUAL EXTRUSION 3D PRINTER



Industrial Desktop

Zortrax Inventure is a dual-extrusion 3D printer designed for professional applications in various fields ranging from industrial design, through medicine, to engineering. It's an affordable desktop machine with capabilities found almost exclusively in large industrial class 3D printers: a dissolvable support system, an enclosed heated chamber, and a built-in HEPA filter.

What makes Zortrax Inventure exceptional is that it has all of those features combined and seamlessly integrated with the entire Zortrax Ecosystem along with dedicated 3D printing filaments and Z-SUITE slicing software. That's why Zortrax Inventure is a plug & play desktop 3D printer offering industrial-class performance.

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A prototype of a bicycle cassette 3D printed on Zortrax Inventure.

Enclosed Printing Chamber

All ABS-based materials shrink during cool down. The higher the cool down rate, the more they shrink. To solve this, Zortrax Inventure has been designed around an enclosed, heated printing chamber. Hot ABS filament getting out of the nozzle is cooled down to 80 °C (176 °F). This temperature is then maintained in the chamber throughout the entire 3D printing process. Once the model is finished, Zortrax Inventure cools it down further to room temperature. This way all layers cool down simultaneously at the same rate to prevent warping, cracking, and shrinkage.

Water-soluble Support

Zortrax Inventure works with separate, water-soluble support filaments. Effortless, hands-free support removal is possible with all filaments compatible with the printer, ranging from Z-PLA to ABS-based materials like Z-ULTRAT Plus that requires extrusion temperatures as high as 245° C (505° F). This way Zortrax Inventure can 3D print precise movable mechanisms, particularly useful in engineering, and models with complex internal structures like the human heart for preoperative planning or training in medicine.



A prototype of a cogwheel movable mechanism 3D printed on Zortrax Inventure with Z-ULTRAT Plus with water-soluble support material.

Zortrax Inventure Main Features

- › Works in LPD Plus technology
- › Has dual-extrusion
- › 3D prints high-temperature ABS-based filaments with water-soluble support
- › 3D prints support structures soluble in water
- › Has an enclosed, heated printing chamber
- › Has a built-in HEPA filter
- › Offers short-series production capabilities
- › 3D prints movable mechanisms in one go



A batch of 3D printed parts assembled into a fully functional watch. Zortrax Inventure can 3D print three such batches stacked one on top of the other in one go.

Zortrax Inventure Technical Data

Device	
Build volume	135 x 135 x 130 mm (5.3 x 5.3 x 5.1 in)
Material container	Cartridge
Material diameter	1.75 mm (0.069 in)
Nozzle diameter	0.4 mm (0.016 in)
Support	Dissolvable – printed with a different material than the model
HEPA filter	Yes
Material detection sensor	Yes
Chip with information about material (type, color, consumption)	Yes
Extruder	Printing with the model and the support material
Connectivity	SD card (included)

Software	
Software bundle	Z-SUITE
Supported input file types	.stl .obj .dxf .3mf
Supported operating systems	Mac OS X / Windows 7 and newer versions

Printing	
Technology	LPD Plus (Layer Plastic Deposition Plus) – advanced technology with the Dissolvable Support System
Layer resolution	90 - 290 microns
Minimal wall thickness	400 microns
Platform levelling	Automatic measurement of platform points' height

Temperature	
Heated chamber	Yes
Ambient operation temperature	15 - 30° C (59 - 86° F)
Storage temperature	0 - 35° C (32 - 95° F)

Electrical	
AC input	110 V ~ 4 A 50/60 Hz ; 240 V ~ 1.7 A 50/60 Hz
Maximum power consumption	300 W

In the box
3D Printer, 2 cartridges (model material and support material), 5 build trays, Starter Kit

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



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