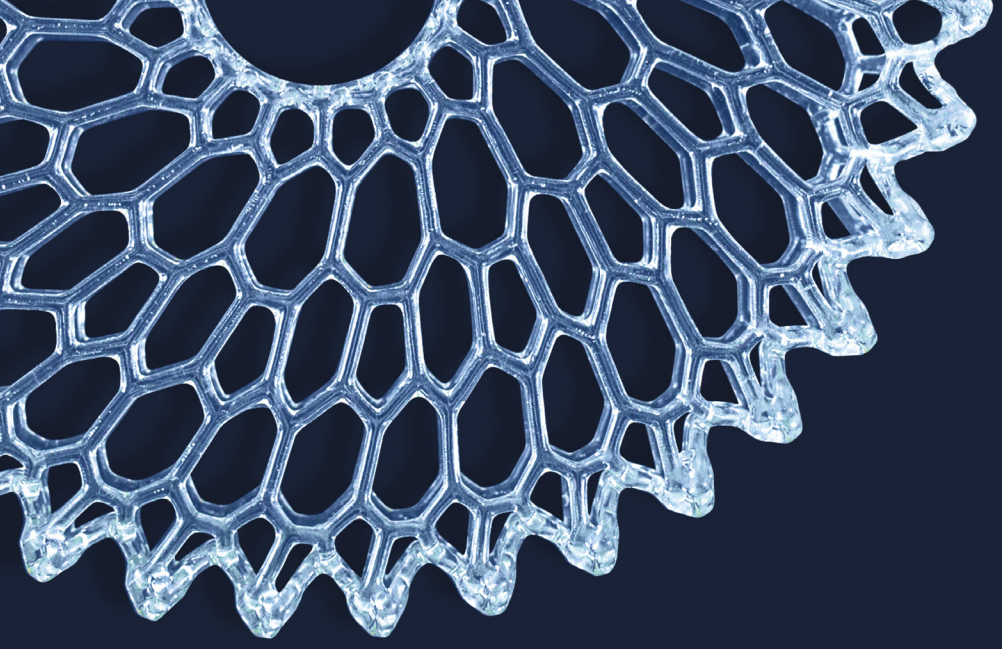
LPD

SVS

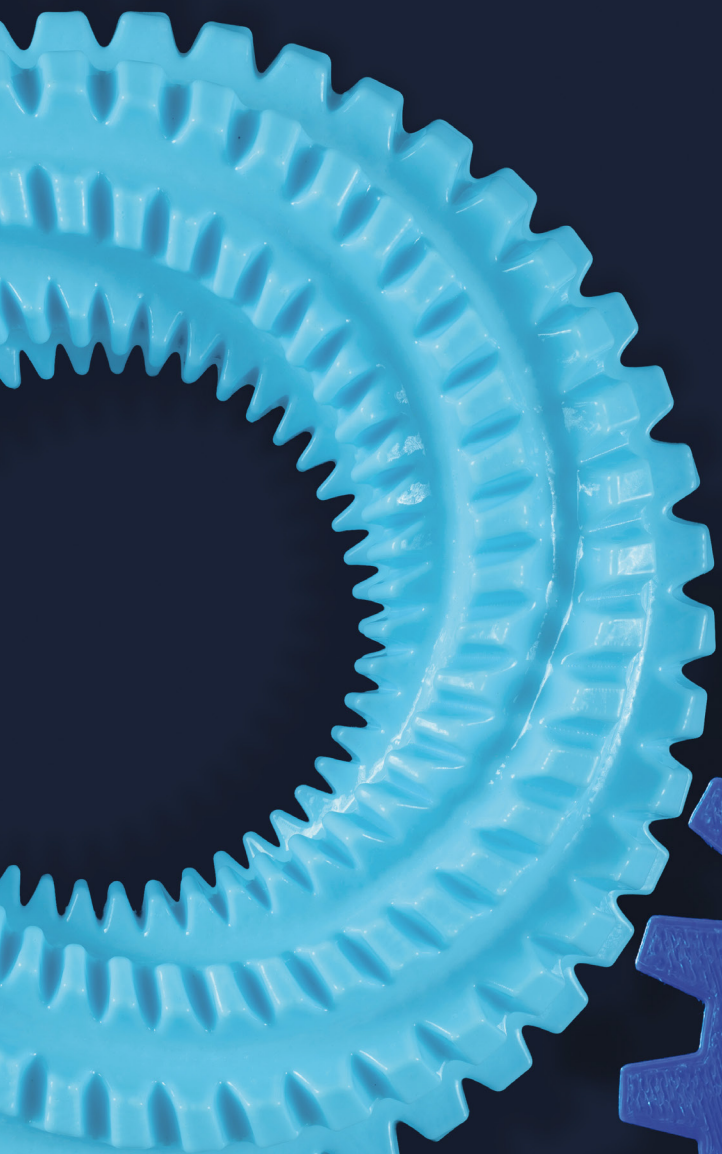
UV
LCD



PRODUCT CATALOG

zortrax

Reliable, renowned and revolutionary 3D printing solutions



End to end agile prototyping and manufacturing

Next-gen technologies enhancing every stage of product development

Zortrax is a widely-acclaimed manufacturer of professional 3D printers, printing materials, and post-processing devices used by world-leading organizations like Bosch or NASA. The company has developed a portfolio of unique flexible manufacturing technologies to deliver the best value to its customers.

LPD | Layer Plastic Deposition

The LPD is an additive manufacturing technology that builds physical models by depositing a fused polymer filament onto a build platform moving in a Z axis. The LPD technology is tightly integrated with its dedicated software and a wide range of filaments with various chemical and physical properties.

LPD Plus | Layer Plastic Deposition Plus

The LPD Plus has the same working principle as the LPD but it supports simultaneous 3D printing with two filaments: one for the model, and one for the water-soluble support structures. This way there is no need for mechanical support removal.

UV LCD | Fast Resin 3D Printing

The image of the model's layer is displayed on a high-res LCD screen with a UV light source placed beneath. Its main strength is very high precision as it is capable of printing extremely small objects barely visible to the naked human eye.

SVS | Smart Vapor Smoothing

The SVS is a unique technology developed by Zortrax to automate vapor-smoothing, one of the most popular techniques to remove visible layering from models 3D printed in the LPD, LPD Plus, FDM, FFF or similar technologies. Vapors of methyl ethyl ketone (MEK) or acetone react with models' surfaces to achieve glossy or matte finish, depending on the filament used.

Small-scale production

Cost-efficient prototyping

Prosthetics & orthotics

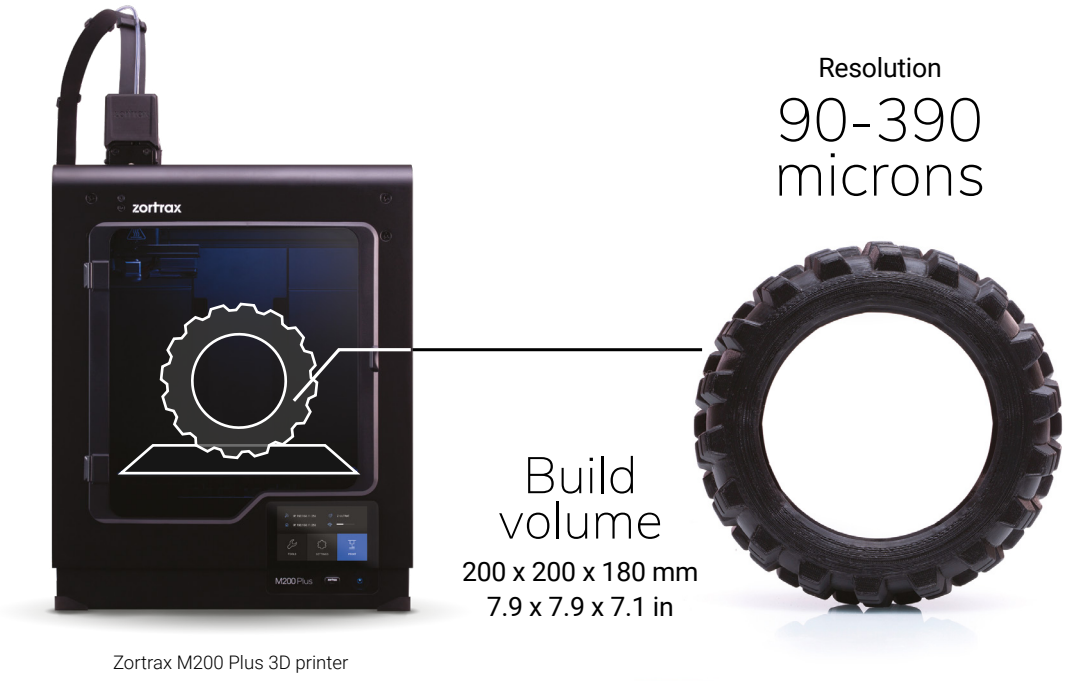
Pre-surgical planning models

Educational aids

zortrax

M200 Plus

Basically reliable 3D printer



Zortrax M200 Plus 3D printer

Designed for hard work

The M200 Plus LPD 3D printer has been made with high-quality components to offer class-leading reliability and low maintenance costs. This machine is a versatile, affordable 3D printing solution that can work for many hours without a single failure.

Made for 3D printing farms

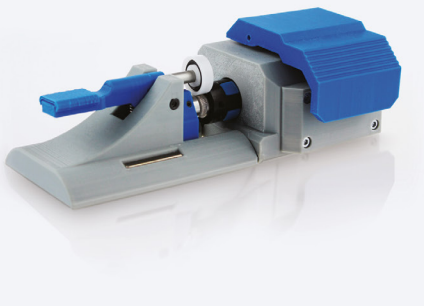
Large clusters of remotely controlled 3D printers can offer significant prototyping and small to medium scale production capabilities. The M200 Plus has Wi-Fi and Ethernet connectivity which make it great as a basic manufacturing unit in a 3D printing farm.

Fail-safe design

The industrial-grade extruder in the M200 Plus is compatible with a wide range of filaments. Functionalities like efficient cooling system or a heated build-platform guarantee dimensional accuracy while the filament endstop mechanism pauses the print and notifies the user when the filament runs out.

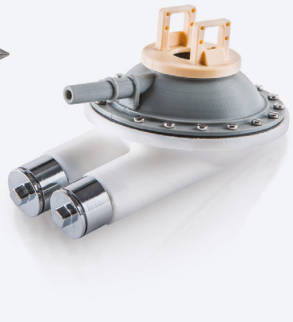
Easy to control

The M200 Plus can be operated remotely or through an intuitive touch screen fitted in the front panel. The printing process can be monitored at all times with a camera installed in the printing chamber. The machine can be set up and operated with no prior 3D printing experience.



Medical winch for fiber laser closing varicose veins

End-use drill-driver casing



Artificial human heart model

Functional headphones prototype

DEVICE

Build volume	200 x 200 x 180 mm (7.9 x 7.9 x 7.1 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 (0.24 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	Perforated, heated, equipped with pogo pins
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

PRINTING

Technology	LPD (Layer Plastic Deposition) – depositing melted material layer by layer onto the build platform
Layer resolution	90-390 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	320 W

SOFTWARE

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

IN THE BOX

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

Architecture modeling

Automotive parts

Aerospace prototyping

Medium-scale manufacturing

Production lines support

Prosthetics & orthotics

zortrax

M300 Plus

Print big models in one go

Zortrax M300 Plus 3D printer

Resolution

90-290 microns

Build volume

300 x 300 x 300 mm

11.8 x 11.8 x 11.8 in

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.

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.

Remote management

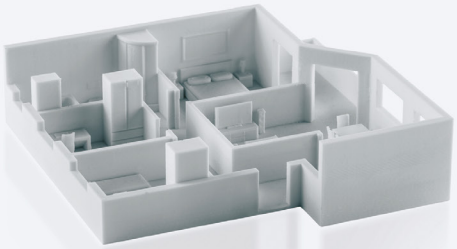
Manufacturing output increases with the number of 3D printers working on the project and the M300 Plus is designed to work in 3D printing farms. Multiple machines can be controlled remotely from one workstation over Ethernet or Wi-Fi.

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 (0.24 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	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

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

SOFTWARE

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

IN THE BOX

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

Automotive & aerospace

Architecture

Medium-scale production

Geometrically complex models

Large mechanical models

Production lines support

zortrax

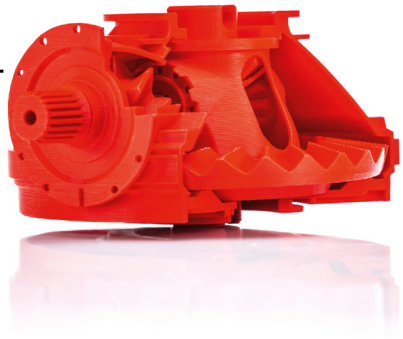
M300 Dual

Industrial-class 3D printing on your desk

Zortrax M300 Dual 3D printer

Resolution

100-300 microns



Build volume

265 x 265 x 300 mm

10.4 x 10.4 x 11.8 in

Large volume dual extrusion

The M300 Dual can simultaneously print with both base and water-soluble support filaments in a large build volume measuring 265 x 265 x 300 mm. This makes it capable of printing big models needed in industries like aerospace, automotive, or architecture.

Advanced filament control

The printer can detect when the filament ran out or jammed. In both scenarios the print is paused and a notification is sent to the user. The work can be resumed from the same spot when the problem is solved.

Various build-platforms

With a capacitive displacement sensor the M300 Dual can automatically calibrate to work with glass, perforated, or other types of build platforms. This way it's possible to customize the printer for the project at hand.

Fail-safe 3D printing

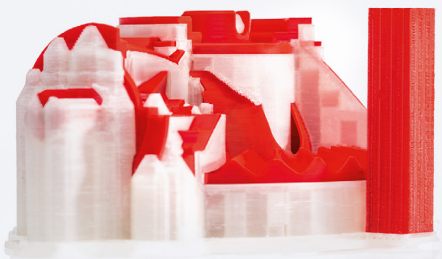
To deal with power outages, the Blackout Response System stores enough energy to save the printing progress. Printing can be resumed from the same spot when the power is back on.

Third-party filaments support

Professional users often need special-purpose filaments for their projects. That's why the M300 Dual can work with all third-party 1.75 mm filaments available on spools with no adverse effect on utility.

Extensive connectivity

Multiple M300 Dual 3D printers can be connected via Wi-Fi or Ethernet network to work in large, remotely controlled clusters. Such 3D printing farms can be used for bridge manufacturing or small to medium scale production.



Model of gear mechanism before support material dissolution

Car gearbox

Part of a VR headset

DEVICE

Build volume	265 x 265 x 300 mm (10.4 x 10.4 x 11.8 in)
Nozzle diamerter	0.4 mm (0.016 in)
Extruder	Dual, printing with model and support material
Extruder cooling system	Two fans cooling the extruder; radial fan cooling the print
Hotend	Dual
Platform	Heated; various platforms are applicable (e.g. perforated or glass)
Material Endstop	2 x Mechanical
Connectivity	Wi-Fi, Ethernet, USB
Operating system	Android
Processor	Quad Core
Touchscreen	4" IPS 800 x 480
Camera	Yes

ELECTRICAL

AC Input	110 V ~5.9 A 50/60 Hz; 240 V ~2.5 A 50/60 Hz
Maximum power consumption	400 W

SOFTWARE

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

IN THE BOX

3D Printer, Side Covers, Z-SUITE, Starter Kit, Z-PETG, Z-SUPPORT Premium, 1x Perforated Platform, 1x Glass Platform, 2x Spool holders, Material Box

PRINTING

Technology	LPD Plus (Layer Plastic Deposition Plus) – advanced technology depositing melted thermoplastics with dissolvable support structures
Layer resolution	100-300 microns
Minimal wall thickness	400 microns
Platform levelling	Automatic measurement of platform points' height / manual measurement of platform points' height

TEMPERATURE

Maximum printing temperature (extruder)	310° C (590° 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)

FILAMENTS

Dedicated for single extrusion	Z-NYLON, Z-ULTRAT, Z-PETG, Z-GLASS, Z-PLA,
Dedicated for dual extrusion	Z-PETG, Z-PLA, Z-ULTRAT Plus, Z-SUPPORT Premium
External filaments	Applicable
Support	Mechanically removed – printed with the same material as the model Water-soluble – printed with a different material than the model
Filament container	Spool
Filament diameter	1.75 mm (0.069 in)

Medical aids

Surgical planning models

Mechanical engineering

Movable mechanisms

Organic shapes

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Inventure

Compact tool for your inventions

Zortrax Inventure 3D printer

Resolution

90-290 microns

Build volume

135 x 135 x 130 mm

5.3 x 5.3 x 5.1 in

Enclosed printing chamber

The Inventure has an enclosed heated printing chamber which allows to tightly control the temperature around the model. That's how warping and shrinkage that occur during the polymers' cooldown are minimized to achieve better dimensional accuracy.

Advanced dual-extrusion

Models in the Inventure are printed with two filaments: one for the model and one for water-soluble support structures. The technology allows printing accurate models with intricate internal architectures like a human heart or movable mechanisms in one go.

Smart cartridges

Both base and support filaments for the Inventure come in smart cartridges measuring how much of the filament is left. The printer at all times knows what type of filament is loaded and notifies the user when it is about to run out.

Built-in HEPA filter

The HEPA filter is an integral part of the Inventure that prevents fumes and ultra-fine particles (UFPs) from getting out of the printing chamber. This filter is experimentally proven to intercept over 99% of the UFPs released in the 3D printing process.

Automated support removal

Soluble support removal can be done automatically in the DSS Station designed to complement the Inventure. The DSS Station keeps the water at optimal temperature and circulates it around the model until all the support structures are gone*.

*The DSS Station is a stand-alone device that does not come in the box with the Inventure 3D printer.

Shock-absorbing bicycle saddle pole

Bicycle cassette model before support material dissolution

Human heart pre-surgical planning model

Intricate movable mechanism

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	Water-soluble – printed with a different material than the model
Extruder	Dual, printing with model and support material
Hotend	Dual
Material detection sensor	Yes
Chip with information about material (type, color, consumption)	Yes
HEPA filter	Yes
Connectivity	SD card (included)

PRINTING

Technology	LPD Plus (Layer Plastic Deposition Plus) – advanced technology depositing melted thermoplastics with dissolvable support structures.
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)

SOFTWARE

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

ELECTRICAL

AC Input	110 V ~5.9 A 50/60 Hz; 240 V ~2.5 A 50/60 Hz
Maximum power consumption	300 W

IN THE BOX

3D Printer, Z-PETG, Z-SUPPORT Premium, 5 build trays, Starter Kit

HEPA Cover

Dedicated for: M200, M200 Plus, M300, M300 Plus, M300 Dual and other 3D printers with similar dimensions

HEPA Cover is a filtering device designed to intercept harmful UFPs and unpleasant odors released in the 3D printing process. It also keeps the temperature in the printing chamber stable to reduce warping and shrinkage.

WEIGHT AND PHYSICAL DIMENSIONS	
HEPA Cover 200	
Without filtering module (W x D x H)	368 x 357 x 230 mm (14.5 x 14.1 x 9.1 in)
With filtering module (W x D x H)	426 x 357 x 230 mm (16.8 x 14.1 x 9.1 in)
Device weight	1.95 kg (4.3 lb)
HEPA Cover 300	
Without filtering module (W x D x H)	496 x 483 x 280 mm (19.5 x 19.1 x 11 in)
With filtering module (W x D x H)	545 x 483 x 280 mm (21.5 x 19.1 x 11 in)
Device weight	2.55 kg (5.6 lb)

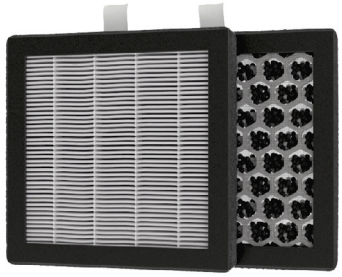
FILTRATION	
Odor reduction filter	Carbon
Particle reduction filter	HEPA
Filtration efficiency	99.5%

ELECTRICAL	
AC input	100 - 240 V ~ 0.7 A 50/60 Hz
Power supply parameters	12 V DC, 0.5 A (min)
Maximum power consumption	6 W

ADDITIONAL INFORMATION
Device, power supply unit, filtering module with HEPA and carbon filters

HEPA Cover Filter set

Dedicated for: Zortrax HEPA Cover

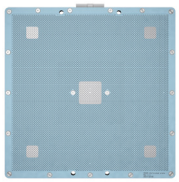


HEPA and carbon filters in HEPA Covers should be changed every 3-4 months. This filter set contains 3 HEPA and 3 carbon filters - enough to keep the HEPA Cover's performance at optimal level for up to a year.

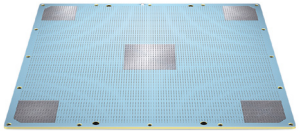
Perforated plate & glass plate

Dedicated for: M200 Plus, M300 Plus, M300 Dual

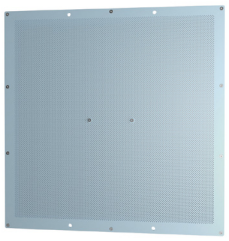
Perforated build plates are made to ensure great build-platform adhesion and are recommended for printing with rafts.
Glass build plates available for the M300 Dual make it possible to achieve extremely smooth first layers when printing raft-free.



Perforated plate for M200 Plus



Perforated plate for M300 Plus



Perforated plate for M300 Dual

Glass build plate for M300 Dual

Zortrax DSS Station

Dedicated for: Inventure

Zortrax DSS Station is an automated soluble support removal device compatible with the Inventure 3D printer. It keeps the water at optimal temperature and circulates it around the model to increase the supports dissolution rate.

WEIGHT AND PHYSICAL DIMENSIONS	
External dimensions (W x D x H)	235 x 238 x 295 mm (9.2 x 9.4 x 11.6 in)
Internal dimensions	188 x 188 x 199 mm (7.4 x 7.4 x 7.8 in)
Working volume	6 L (202.9 fl oz)
Device weight	8.4 kg (18.5 lb)

MECHANICAL	
Maximum working temperature	75° C (167° F)
Maximum rotational speed	220 rpm

ELECTRICAL	
AC input	110 V ~ 9 A 50/60 Hz; 240 V ~ 4.2 A 50/60 Hz
Maximum power consumption	1000 W

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Parts & Accessories for LPD/LPD Plus

PARTS & ACCESSORIES	DESCRIPTION	M200 PLUS	M300 PLUS	M300 DUAL	INVENTURE	PRODUCT
Build tray	4 spare standard build trays	✗	✗	✗	✓	
Build tray plus	4 spare build trays plus. Designed for 3D printing with Z-ULTRAT Plus	✗	✗	✗	✓	
Extruder cable	Cable connecting an extruder with a motherboard	✓	✓	✗	✗	
Extruder FPC cable	M300 Dual extruder's cable	✗	✗	✓	✗	
Extruder PCB	M300 Dual extruder's PCB	✗	✗	✓	✗	
Extruder v1	Extruder for M300 Dual	✗	✗	✓	✗	
Fan cooler	Spare extruder's fan cooler	✓	✓	✓	✗	
Glass build plate	Glass build plates available for the M300 Dual make it possible to print raft-free	✗	✗	✓	✗	
HEPA filter	Spare air filter for Inventure	✗	✗	✗	✓	
Hotend module	2 separate hotends in set, one extruding the model material and the other extruding the support material	✗	✗	✓	✓	
Hotend V3	Heating block for filament extrusion system	✓	✓	✗	✗	
Material box	Container protecting support filament from moisture	✗	✗	✓	✗	

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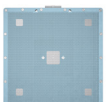
Parts & Accessories for LPD/LPD Plus

PARTS & ACCESSORIES	DESCRIPTION	M200 PLUS	M300 PLUS	M300 DUAL	INVENTURE	PRODUCT
Nozzle 0.4 mm	Spare 0.4 mm nozzle	✓	✓	✗	✗	
Nozzle set 0.3 & 0.6 mm	A set of 2 nozzles with 0.3 diameter for precise prints and 0.6 mm diameter for fast prints	✓	✓	✗	✗	
Nozzle caps	Set of 4 teflon nozzle cap	✓	✓	✓	✓	
Nozzle set	2 nozzles, 2 teflon nozzle caps, 2 hotend covers	✗	✗	✓	✓	
Perforated plate	Perforated plate to install on heatbed	✓	✓	✓	✗	
Radial fan cooler	Spare radial fan cooler dissipating heat generated in the XY block where the upper part of hotend is attached	✓	✓	✓	✗	
Set of fan coolers	A set of 3 spare fan coolers	✗	✗	✓	✓	
Side covers	Detachable plastic panels covering build space	✓	✓	✓	✗	
Silica gel	Desiccant for M300 Dual material box	✗	✗	✓	✗	
Spool holder	Holder for spools of filament	✓	✓	✓	✗	
Thermocouple+heater	Set of one thermocouple (element for hotend temperature gauge) and one heater (heating element for hotend)	✓	✓	✗	✗	
USB memory stick	USB flash storage device	✓	✓	✓	✗	

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3D Printing Thermoplastic Filaments

FILAMENTS	DESCRIPTION
Z–ABS	ABS-based, multi-purpose, budget filament. Easy to post-process for both beginners and professionals.
Z–ASA Pro	ASA-based resilient filament for functional prototypes that can withstand the UV light, rain, and wind.
Z–ESD	PETG-based filament perfect for the electronic industry. Guarantees electrostatic discharge protection along with resistance to most acids, alcohols, and alkalis.
Z–FLEX	Strong TPU-based flexible filament with great interlayer-adhesion. It can bend without breaking. The material is non-toxic and resistant to various chemicals like gasoline and ethyl alcohol.
Z–GLASS	Composite material based on PETG with fiberglass addition. It has light-transmitting properties for translucent models and is resistant to scratches, UV light, and chemicals.
Z–HIPS	A filament based on HIPS (high impact polystyrene) with semi-mat texture that masks the layering. Offers high impact resistance and effortless post-processing.
Z–NYLON	Very strong, versatile filament resistant to high temperatures and chemicals. It can be post-processed with tools meant for machining metals. The material is easy to paint and hard to break.
Z–PCABS	A blend of ABS and polycarbon. Can easily withstand impacts, UV light, high temperature, and time. It's also resistant to salts, acids, and other chemicals.
Z–PETG	Filament based on PET with glycol addition. Can withstand UV light and passage of time. The material is also exceptionally resistant to oils and other greases.
Z–PLA	PLA-based filament with low shrinkage, guaranteeing high-quality details and smooth surfaces. Offers exceptional precision for complex models.
Z–PLA Pro	PLA-based, biodegradable filament. An addition of chalk gives its surface a unique mat finish and more visible details with gypsum-like texture. Very low shrinkage, almost no warping.
Z–SEMIFLEX	Semi-flexible TPU filament. It's resistant to tearing, wearing, and high temperatures. The material can bend without breaking like Z-FLEX but has higher rigidity.
Z–ULTRAT	Durable and lasting ABS-based filament. Its surface can be easily post-processed with acetone and mechanical treatment. Available in a wide range of colors.
Z–ULTRAT Plus	Durable ABS-based filament. When printed with a soluble support material, it offers high layer adhesion.
Z–SUPPORT Premium	BVOH-based water-soluble support filament. The material has a fast dissolution rate.

COLORS				M200 PLUS	M300 PLUS	M300 DUAL	INVENTURE
● Green ● Android Green ● Blue	● Cool Grey ● Orange ● Pure Black	○ Pure White ● Red ● Sky Blue	● Warm Grey ● Yellow	Spool Net weight: 800 g ± 5%	X	X	X
● Blue ● Graphite	● Pure Black ○ Pure White	● Red	● Yellow	Spool Net weight: 800 g ± 5%	Spool Net weight: 2 000 g ± 5%	X	X
● Black				Spool Net weight: 800 g ± 5%	Spool Net weight: 2 000 g ± 5%	X	X
● Black				Spool Net weight: 800 g ± 5%	Spool Net weight: 800 g ± 5%	X	X
○ Natural Transparent	● Neon Yellow ● Android Green	● Blue	● Orange	Spool Net weight: 800 g ± 5%	Spool Net weight: 2 000 g ± 5%	Spool Net weight: 2 000 g ± 5%	X
● Black ● Grey	○ Natural White ● Blue	● Green ● Red	● Yellow	Spool Net weight: 800 g ± 5%	Spool Net weight: 2 000 g ± 5%	X	X
○ Natural	● Black			Spool Net weight: 800 g ± 5%	Spool Net weight: 2 000 g ± 5%	Spool Net weight: 2 000 g ± 5%	X
○ Ivory				Spool Net weight: 800 g ± 5%	X	X	X
● Black	● Grey			Spool Net weight: 800 g ± 5%	Spool Net weight: 2 000 g ± 5%	Spool Net weight: 2 000 g ± 5%	Cartridge net weight: 350 g ±5%
● Black ● Blue	● Green ● Grey	○ White ● Graphite	● Yellow	X	X	Spool Net weight: 2 000 g ± 5%	Cartridge net weight: 350 g ±5%
○ Gypsum White ● Blue	● Brick ● Bright Red	● Concrete Grey ● Cool Grey	● Pure Black	Spool Net weight: 800 g ± 5%	Spool Net weight: 2 000 g ± 5%	X	X
● Black				Spool Net weight: 800 g ± 5%	Spool Net weight: 2 000 g ± 5%	X	Cartridge net weight: 350 g ±5%
BASICS: ● Blue ● Yellow ● Green ● Cool Grey ○ Ivory ● Pure Black ● Red	**NEUTRALS:** ● Nude ● Magenta ● Olive ● Brown	**PASTELS:** ● Pastel Yellow ● Pastel Pink ● Pastel Purple ● Pastel Blue ● Pastel Turquoise	**NEONS:** ● Neon Blue ● Neon Green ● Neon Yellow ● Neon Orange ● Neon Red ● Neon Pink	Spool Net weight: 800 g ± 5%	Spool Net weight: 2 000 g ± 5%	Spool Net weight: 2 000 g ± 5%	X
● Blue ● Graphite	● Pure Black ● Red	○ Ivory		X	X	Spool Net weight: 2 000 g ± 5%	Cartridge net weight: 350 g ±5%
				X	X	Spool Net weight: 800 g ± 5%	Cartridge net weight: 350 g ±5%

Serial vapor-smoothing

Water-proof models

Interlocked movable parts

Display models

End-use products

3D printing farms

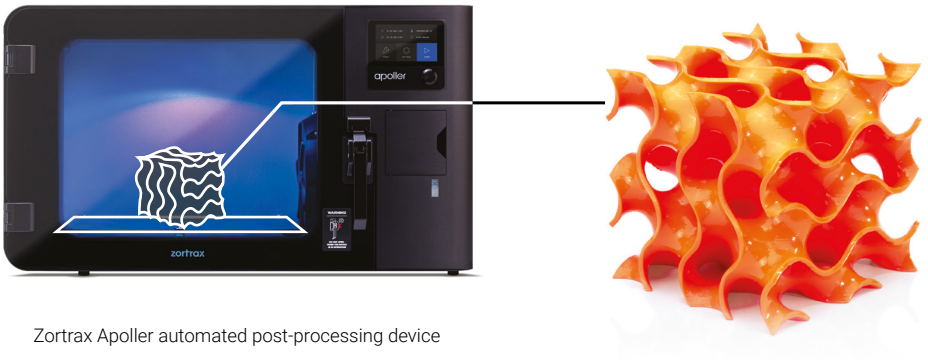
zortrax

Apoller

Revolutionary automated post-processing

Build volume

300 x 250 x 250 mm
11.8 x 9.8 x 9.8 in



Zortrax Apoller automated post-processing device

Smart Vapor Smoothing

MEK or acetone vapors react with surfaces of 3D printed models which leads to disappearance of visible layering. The SVS is a patent-pending technology that efficiently performs this process in a controlled and user-friendly manner.

Safety first

The Apoller has an EU ATEX certificate of safety necessary for the equipment woking with solvents' vapors. Carefully designed vapors' flow and condensation systems make the device safe to use even by untrained staff.

High efficiency

Once the smoothing is done, excessive vapors are retrieved in the condensation system and placed back in the tank to be reused in the future. This way multiple smoothing sessions can be performed with just one 500 ml bottle of MEK or acetone.

Perfect details

Manual vapor-smoothing can leave tiny details deformed. The Apoller solves this with tight control over the temperature and pressure in the smoothing chamber. The smaller the detail the less solvent is applied to its surface which keeps its shape intact.

Wide compatibility

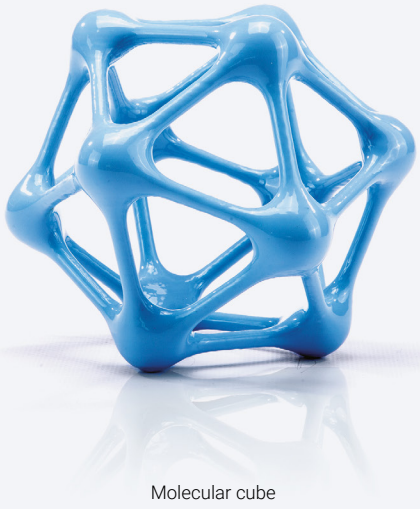
The Apoller is compatible with prints made on all FDM, FFF, LPD, and LPD Plus 3D printers. It can smooth models printed with ABS, ASA, or HIPS filaments.

Serial post-processing

Each smoothing session takes about 3h, regardless of how many models are placed in the smoothing chamber. The Apoller can work in large 3D printing farms taking their production quality to the level comparable with injection molding technology.

Concept of a souvenir gadget

End-use bike handle



Molecular cube

SVS

DEVICE	
Build volume	300 x 250 x 250 mm (11.8 x 9.8 x 9.8 in)
Connectivity	Wi-Fi, Ethernet, USB
Operating system	Android
Processor	Quad Core
Touchscreen	4" IPS 800 x 480
Solvent compatibility	Aceton, MEK
Zortrax compatible materials	Z-ABS, Z-ULTRAT, Z-ULTRAT Plus, Z-ASA Pro, Z-HIPS
External compatible materials	ABS, ASA, HIPS

IN THE BOX
Device, Starter Kit

PROCESS	
Maximum working temperature	90° C (194° F)
Minimum working temperature	- 20° C (-4° F)
Minimum gauge working pressure	- 0.6 bar
Ambient operation temperature	15-30° C (59-86° F)
Storage temperature	0-35° C (32-95° F)

ELECTRICAL	
AC Input	110 V ~13.6 A 50/60 Hz; 240 V ~6.3 A 50/60 Hz
Power supply parameters	24 V DC @ 21 A, 500 W
Maximum power consumption	1500 W

Before/after vapor smoothing

Jewelry design

Dental modeling

Dental aids manufacturing

Precision engineering

Medium to large--scale production

Small highly detailed models

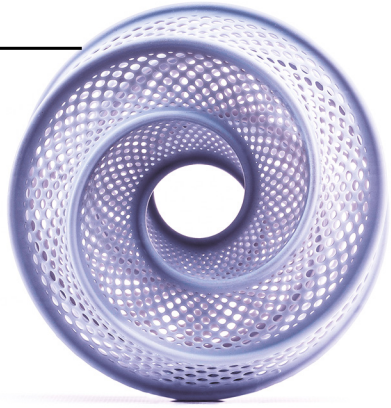
zortrax

Inkspire

Made for speed and surgical precision

Zortrax Inkspire 3D printer

Pixel size
50
microns



Build volume
132 x 74 x 175 mm
5.2 x 2.9 x 6.9 in

Fast resin 3D printing

Zortrax Inkspire works at constant high speed regardless of how much of the workspace is used. An entire build-platform filling batch of models prints in the same time as a single part. That's why the Inkspire scales up so well when higher manufacturing output is needed.

Top of the line precision

Each model's layer is displayed on a high-res LCD and solidified by a UV light source placed beneath. This way, the Inkspire can accurately print extremely small details barely visible to the naked human eye.

Great connectivity

The Inkspire is ready to use in large 3D printing farms due to its remote management capabilities. It can be remotely operated via a Wi-Fi or Ethernet network. Models can be also loaded directly from USB storage devices.

Easier support removal

Support structures printed on the Inkspire are easier to remove. Additional UV light exposure time can be set specifically for supports to make them harder than the rest of the model. This way, their footprint on the model's surface is significantly reduced.

Open to all resins

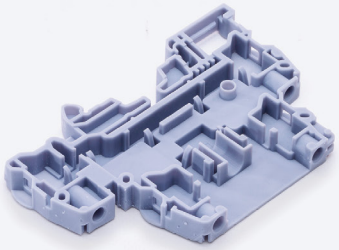
All resins that can be cured by light with 405 nm wavelength are fully supported with no loss of utility. The Inkspire works at full capacity with both dedicated and third-party photopolymers. Users are free to choose the resin which they deem best for their projects.

Packaging prototype

Jewelry investment casting pattern

Surgical guide fitted on a dental impression

Dental bridge and crown models



Fully functional contractor

UV LCD

DEVICE

Build volume	132 x 74 x 175 mm (5.2 x 2.9 x 6.9 in)
Platform calibration	Automatic
Support	Mechanically removed - printed with the same material as the model
Light source	UV integrated light (wavelength 405 nm)
Connectivity	Wi-Fi, Ethernet, USB
Operating system	Android
Processor	Quad Core
Touchscreen	4" IPS 800 x 480
External materials	Applicable

SOFTWARE

Software bundle	Z-SUITE
Supported file types	.stl, .obj, .dxf, .3mf, .zcodex
Supported formats	.cws, .zcodex
Supported operating system	Mac OS X / Windows 7 and newer versions

PRINTING

Technology	UV LCD
Pixel size	50 microns (0.05 mm)
Layer thickness	25, 50, 100 microns
Print speed	20-36 mm/h

TEMPERATURE

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	75 W

IN THE BOX

3D Printer, Z-SUITE, Starter Kit, Zortrax Photopolymer Resin Basic (500 ml)

Ultrasonic Cleaner

Dedicated for: Inkspire and other resin 3D printers

Zortrax Ultrasonic Cleaner uses high frequency sounds propagated in liquid detergent like isopropyl alcohol to remove excessive liquid resin from models 3D printed on the Inkspire. Typical cleaning sessions takes up to 10 min.

DEVICE	
Model	Zortrax Ultrasonic Cleaner
Tank dimensions	240 x 135 x 100 mm (9.4 x 5.3 x 4.0 in)
Maximum tank capacity	3.2 l
Material	Stainless steel
Time control	0-30 min

ELECTRICAL	
Maximum power consumption	20-30° C (68-86° F)
Storage temperature	0-35° C (32-95° F)

TEMPERATURE	
Ambient operation temperature	120 W
Frequency	40 KHz

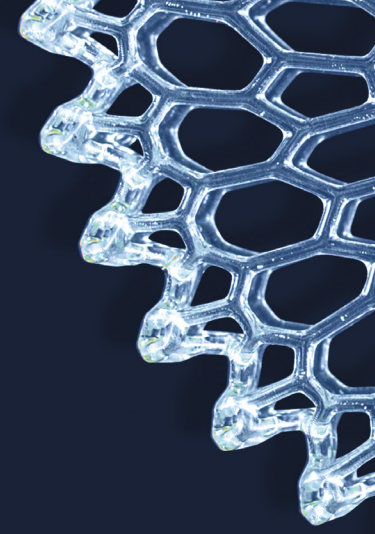
WEIGHT AND PHYSICAL DIMENSIONS	
Device (W x D x H)	250 x 150 x 230 mm (9.8 x 5.9 x 9.0 in)
Net weight	3.3 kg (7.2 lbs)

Parts, Accessories & Resins for UV LCD

PARTS & ACCESSORIES	DESCRIPTION	PRODUCT
Carbon filter	Spare carbon filter	
FEP film set	A set of 4 spare FEP films to put in a resin tank	
LCD screen	A set of high-res LCD Screens providing high UV light transmission	
Platform Inkspire	Spare build platform	
Resin tank	Removable resin tank	

PHOTOPOLYMER RESINS	DESCRIPTION	COLORS	CONTAINER
Raydent Crown & Bridge Resin	Class IIa biocompatible resin for printing temporary crowns and bridges. Very precise and highly resistant to abrasion.	● A2	1000 ml bottle
Raydent Surgical Guide Resin	Clear, class I biocompatible resin designed for printing dental surgical guides. Offers high dimensional accuracy.	○ Crystal Clear	1000 ml bottle
Zortrax Resin BASIC	An epoxy-based resin offering sharp edges and accurate details. It's durable and easy to print.	● Grey ◐ White/Ivory ○ Pigment-free	500 ml bottle
Zortrax Resin DENTAL Model	Precise dental resin with a gypsum-like texture. Offers very low shrinkage and high level of detail sufficient for accurate modeling of teeth. Not meant for intraoral use.	● Beige	500 ml bottle
Zortrax Resin FLEXIBLE	Flexible, epoxy based resin which is highly impact resistant. Offers smooth surfaces, high level of detail, and sharp edges.	○ Transparent Yellow	500 ml bottle
Zortrax Resin PRO	An epoxy-based resin with improved impact and bending resistance in comparison with Zortrax Resin Basic. It offers short curing times, high degree of detail, and ease of post-processing.	● Black	500 ml bottle

Zortrax S.A. with its registered office in Olsztyn, at the following address: ul. Lubelska 34, 10-409 Olsztyn, Poland, registered in the register of entrepreneurs conducted by the District Court in Olsztyn, VIII Commercial Division of the National Court Register, under KRS number 0000564079, tax ID NIP: 7393864289, with a share capital of PLN 7 462 500 paid in full



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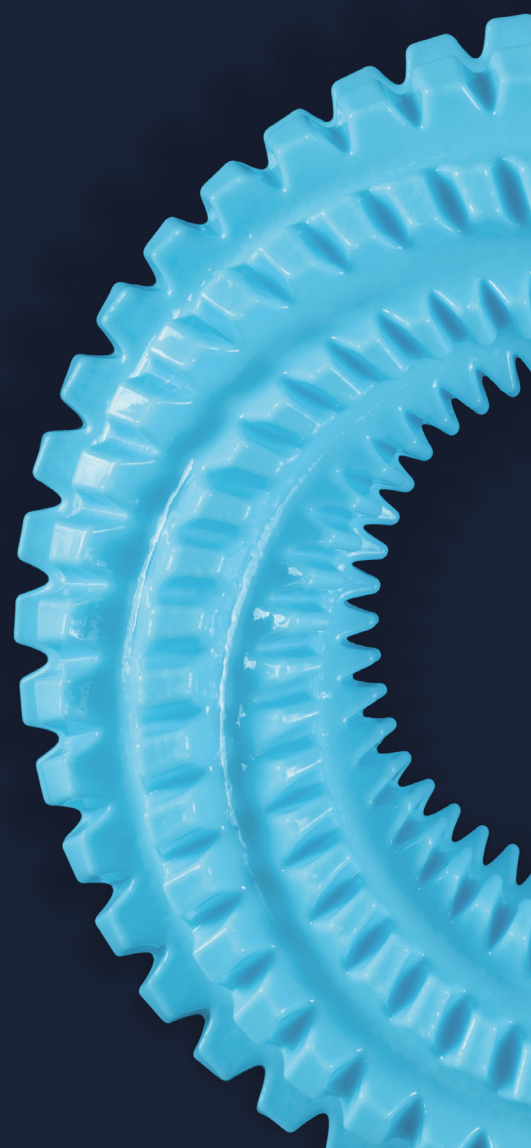
Find your local Reseller at zortrax.com/find-reseller
Choose your country and will get the list of resellers closest to your place of residence.

LOCAL RESELLER



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