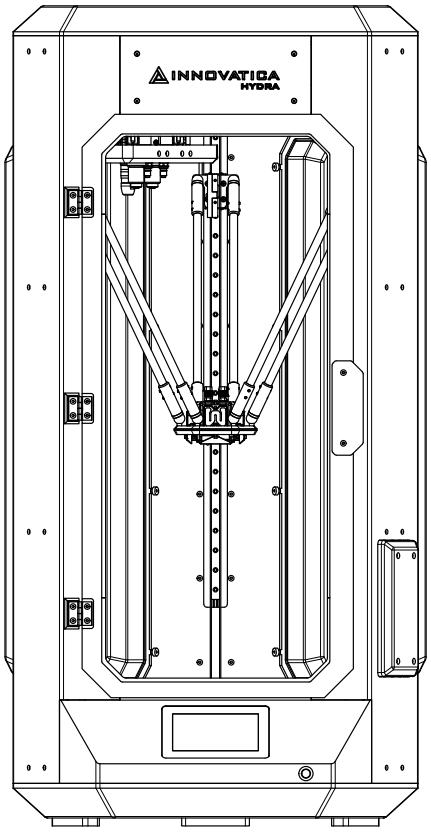
INNOVATICA

FDM/FFF 3D Printer

Hydra

Hydra is a 3D printer that allows you to print with 45+ materials, including various types of Nylon and PEEK. Our exceptional features such us interchangeable liquid-cooled print heads, heated chamber, or vacuum build plate, allow you to create precise and strong objects.

Specification sheet



Modular design

The modular design of our printers allows you to quickly adapt it to a particular material used in your project. You don't need to buy multiple printers – just exchange the printhead and expand the possibilities.

Wide range of materials

There are over 45 materials from which you can choose to create your models and prototypes using Innovatica printers. Compatible materials range from PLA and ABS to ultra-polymers like PEEK. The printer precisely monitors filament consumption and saves this data onto a self-adhesive NFC chip.

Technical Condition Monitoring System TCMS

Uninterrupted work of the printer is ensured by the TCMS – Technical Condition Monitoring System. It continually monitors the printer and always keeps you informed about its status. which reduces downtime to a minimum.

Service Level Agreement SLA

If something goes wrong, you can always count on our support. Thanks to the Service Level Agreement, spare parts are shipped within 24 hours, so you won't have any downtime in implementing your plans.

Quality

The device is made entirely out of metal in Innovatica's own CNC machine shop, which combined with components delivered by the most reputable manufacturers, guarantees the highest quality of prints.

Repeatability

The repeatability of the prints is one of the crucial factors, and Innovatica printers will surely meet your expectations. We deliver high precision and repeatable results without differences in the quality of the printed models. This type of feature cannot be overestimated while working on your product.

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PRINTING SPECIFICATIONS	
Technology	FDM/ FFF (Fused Filament Fabrication)
Printhead modules	4 types
Print head	Liquid-cooled, dual-extrusion with lifting nozzles
Build Volume	Ø300 x 300mm 21.2L
Filament diameter	1.75 mm
Nozzle temperature (max)	450°C
Nozzle diameter	0.25mm 0.4mm 0.6mm 0.8mm
Resolution	0.25mm 150 - 80 micron 0.4mm 250 - 25 micron 0.6mm 400 - 25 micron 0.8mm 600 - 80 micron
Print speed	up to 250mm/s
Build plate type	Vacuum system
Build plate surfaces	Glass, BuildTak, BuildTak PEI, 1mm PEI sheet
Build plate temperature (max)	200°C
Build plate leveling	Automatic, nozzle probe
Build plate heat up time	20 - 60°C - 50 seconds 20 - 100°C - 2 min 15 seconds
Supported materials	47
Soluble support	Yes, 4 types
Extruder type	Dual-drive, geared 1:3, Bondtech
Filament amount control system	Yes, integrated NFC system with built-in filament database
Print chamber	Enclosed, actively heated
Print chamber temperature (max)	80°C
Air filtration	HEPA + Activated Carbon
Filament sensor	Yes, for both extruders
Connectivity	Wi-Fi, LAN, USB port
Display	5in 800x480px capacitive touch

PHYSICAL DIMENSIONS	
Printer incl. spool holders	640 x 530 x 1050 mm
Shipping package	850 x 850 x 1500 mm
Printer weight	65 kg
Shipping Weight	100 kg

AMBIENT CONDITIONS	
Operating temperature	15-32°C 10-80RH non-condensing
Storage temperature	5-32°C

POWER REQUIREMENTS	
Input voltage	220-240V 50Hz or 110-120V 60Hz
Power (max)	1450W
Operating power (average)	970W

SOFTWARE	
Supplied software	Simplify 3D
Supported OS	Windows, MacOS and Linux

WARRANTY	
Warranty period	12 months
Service Level Agreement period	Lifetime