



OMNI500 LITE



BUILD VOLUME 460 x 460 x 600 mm

You can print big elements or a few smaller ones at the same time.

2 EXTRUDERS WITH FILAMENT PRESENCE SENSOR

The machine is equipped with dual heads which make it possible to print on both sides of a fabric during one printout, the main build and the support material.

PRINTER MANAGEMENT BY WEBSITE

The printer can be managed through a dedicated website, so you can easily start printing and control the process remotely.

PRINTER FARM MANAGEMENT

The possibility of remotely building and managing a printer set.

AUTOMATIC PLATFORM CALIBRATION

Those are only selected functions which will optimize your work and allow you to make 3D printouts fast and effectively.

TECHNICAL SPECIFICATION

Print technology	FFF (fused filament fabrication)	Max. platform temperature	130 °C
Build volume XYZ	460 x 460 x 600 mm	Max. chamber temperature	50°C
Chamber	enclosed and isolated	Communication	SD card, Ethernet, WiFi
Min. layer height	50 μm	User interface	7" LCD touch screen, website + camera
Build platform	heated, glass-ceramics surface	Software	Simplify3D
Number of printing heads	2	Predefined print settings	Yes, for filaments from Omni3D
Drive type	screw drives in all axes		and for selected filaments from external producers
Nozzle diameter	0,4 mm (optionally 0,6 / 0,8 mm)	Compatible files	.stl, .obj, .3mf, .gcode, .factory
Filament diameter	1,75 mm	Power Supply	230 V / 50 Hz (optional 110 V / 60 Hz)
Max. printing speed	86 cm³/h	Max. power consumption	2,0 kW
Dimensional accuracy	+/- 0,2% *	Printer dimensions	118 x 105 x 76 cm
Automatic platform calibration	yes	Printer weight	150 kg
Air filtration	CARBON + HEPA (optional)	Safety certification	CE
Max. head temperature	260 °C / 360 °C / 500 °C	Warranty	12 months (optionally extendable)

* Dimensional accuracy depends on whether the model has been appropriately scaled before printing it out – so as to compensate material shrinkage, model geometry, and layer height.

FILAMENTS COMPATIBLE WITH OMNI500 LITE

ABS-42

This is a standard filament of great versality. It is highly durable and mechanically strong and is also known for its ease of processing.

ABS-20s

Modified ABS material with increased flexibility. It is both hard and impact resistant, ideal for models used in industry. It is also very light and durable, so it is perfect for producing tools, setting equipment, final elements, etc.

ASA-39

This material is used in projects where there is a need for resistance to atmospheric conditions, especially UV resistance. It is also filament with high-quality wall finish and high strength.

PFT-G-32

Material with low shrinkage. It can be used to create highly accurate models. It is suitable for the food industry and medical applications as it can be sterilised.

HIPS-20

A filament used mainly to create supports. during printing with all materials (except nylon). This material is also used in the metal industry to print lost molds due to its ease of firing.

PLA-36

Biodegradable polymer, made from renewable resources. Universal, used in many industries. It is characterized by high precision and aesthetics of made models. ease of printing and excellent adhesion between layers.

TPU-93A

Flexible material with a hardness of 93A Shore. It has such features as low processing shrinkage, high durability and good bonding of layers, making it suitable for the production of tool components, e.g. those in contact with the car body, flexible hoses, holders and housings.

ΡVΑ

Support material, dissolvable in water The filament enables printing supports in enclosed spaces, thanks to which there are no geometric restrictions on the printed models. PVA cooperates well with PLA and PET-G (it does not require high temperatures).

WS-20

Support material, dissolvable in water. This filament has increased resistance to high temperatures, which makes it compatible with the ABS-20s filament.

Vinyl 303 (PVC)

Polyvinyl chloride has many advantages: it is resistant to chemical agents, oils, acids, and weather. It has great resistance to chemical corrosion and fire, high mechanical, thermal stability, and low moisture absorption.



PRE-IMPLEMENTATION AUDIT

Return on investment, just some of the elements of the



SAMPLE PRINT

of your model.

RANGE **OF POSSIBILITIES**

Equipment purchase, 3D printing on demand or printer rental. Choose the best option for your business.

TRAINING **& SUPPORT**

employee training, technology support, and service.

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