

OMNI500 LITE



COMPATIBLE FILAMENTS:

ABS-42
ABS V0
ABS FC
ASA-39
PET-G-32
PETG CARBON
CF PA-12
PLA-36
PLA-BAMBOO
PLA-CORK
PLA-PAPER
TPU-93A
PVA-20
ODS-20
ABS FUSION+

TECHNICAL SPECIFICATION

Print technology	FFF (fused filament fabrication)
Build volume XYZ	460 x 460 x 600 mm
Chamber	enclosed and isolated
Min. layer height	50 µm
Build platform	heated, glass-ceramics surface
Number of printing heads	2
Drive type	screw drives in all axes
Nozzle diameter	0,4 mm (optionally 0,6 / 0,8 mm)
Filament diameter	1,75 mm
Max. printing speed	86 cm³/h
Dimensional accuracy	+/- 0.2% (not less than +/- 0.2mm)
Automatic platform calibration	yes
Air filtration	CARBON + HEPA (optional)
Max. head temperature	260 °C / 360 °C / 420 °C

Max. platform temperature	150 °C (limit to 130 °C)
Max. chamber temperature	50°C (statically heated)
Communication	SD card, Ethernet, WiFi
User interface	7" LCD touch screen, website + camera
Software	Simplify3D
Predefined print settings	Yes, for filaments from Omni3D and for selected filaments from external producers
Compatible files	.stl, .obj, .3mf, .gcode, .factory
Power Supply	230 V / 50 Hz (optional 110 V / 60 Hz)
Max. power consumption	2,0 kW
Printer dimensions	118 x 105 x 76 cm
Printer weight	250 kg
Safety certification	CE
Warranty	12 months (optionally extendable)

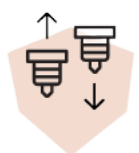
* Dimensional accuracy depends on whether the model has been appropriately scaled before printing it out – so as to compensate material shrinkage, model geometry, and layer height.

OMNI500 LITE UNIQUE POINTS



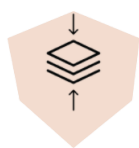
Omni3D Web Control™

Remote preview of 3D printout through the camera, as well as the ability to perform other procedures without approaching the printer.



Omni3D Head Leveling Control™

Automatic extruder height control system, which consists in direct measurement of the distance in the Z axis between the right and left extruder.



Omni3D Platform Autoleveling System™

Automatic table leveling system, i.e. striving for the state in which the printer nozzle will be at the same distance in the Z axis from the build plate, regardless of the position of the print head in the X and Y axes.

NEW VERSION RELEASED IN 2022

NEW

Inactive head lifting system

This system automates the head calibration process, significantly increases the level of print repeatability and enables work with more geometrically complex designs without the risk of damaging the printout by an inactive head.

NEW

New work platform

The new aluminum, two-sided milled structure of the table surface ensures the best surface flatness, which is a key element of the printer characterized by the highest level of printing precision.

NEW

New head radiator cooling system

This system allows the user to improve the temperature stability of the heads, which greatly facilitates the control of the filament flow.

COOPERATION WITH OMNI3D

1



PRE-IMPLEMENTATION AUDIT

Return on investment, cost-benefit analysis - these are just some of the elements of the audit prepared by 3D printing professionals.

2



SAMPLE PRINT

Check the print quality. Make a sample print of your model.

3



RANGE OF POSSIBILITIES

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

4



TRAINING & SUPPORT

Client installation, employee training, technology support, and service.

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