OMNI3D

OMNI LITE

COMPATIBLE FILAMENTS:

ABS-42
ABS V0
ABS FC
ASA-39
PET-G-32
PETG CARBON
CF PA-12
PLA
PLA-BAMBUS
PLA-KOREK
PLA-PAPIER
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	two electronic lifting system
Drive Type	screw drives in all axes
Nozzle diameter	0,2 / 0,4 / 0,6 / 0,8 / 1,0 mm
Filament diameter	1,75 mm
Max. printing speed	86 cm^3 /h
Dimensional accuracy	+/- 0,12% (not less than +/- 0,12mm)
Automatic platform calibration	Yes
Air filtration	CARBON + HEPA (optional)
Max. head temperature	360°C (optionally 420°C)

Max. platform temperature	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
Capatible files	.stl, .obj, .3mf, .gcode, .factory
Power supply	230 V / 50 Hz (optional 110 V / 60 Hz)
Max. power consumption	2,2 kW
Printer dimensions	118 x 105 x 76 cm
Printer weight	250 kg
Safety certification	CE
Warranty	12 months (with the option of prolonging)

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OMNI 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 2023

NEW

Table
The machine has been equipped with new glass with increased thickness. This minimizes the risk of material shrinkage while also improving adhesion. The overall design ensures that large parts can be printed across the table without losing their geometry.

NEW

Omni3D Air Circulation™
Our own air circulation system has been implemented. The consistent temperature throughout the entire volume of the working build chamber allows for a higher quality of printed parts. By equalizing the ambient temperature to the optimal value for the printing material, the unfavorable changes in geometry can be significantly reduced or completely eliminated.

COOPERATION WITH OMNI3D

1 **PRE-IMPLEMENTATION**

Cost-benefit analysis - these are just some of the elements of the audit prepared by 3D printing professionals.

2 **SAMPLE**

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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