

## OMNI NOVA



## COMPATIBLE FILAMENTS:

ABS-42	HIPS-20
ABS V0	ODS-20
ABS FC	PVA-20
ASA-39	CF PA-12
PC-ABS-37	PLA
PET-G-32	GF30-PA6
PETG CARBON	ALFATEICO
PA-12	PEKK-A
PA 6/66 HD	ABS FUSION+
TPU-93A	

## TECHNICAL SPECIFICATION

Print technology	FFF (fused filament fabrication)	Max. platform temperature	150°C (optionally 170°C)
Build volume XYZ	500 x 500 x 570 mm	Max. chamber temperature	70°C (actively heated)
Chamber	enclosed, isolated and actively heated	Communication	SD card, USB
Min. layer height	50 µm	User interface	7" LCD - touch screen
Build Platform	heated, glass-ceramics surface	Software	Simplify3D
Number of printing heads	two electronic lifting system	Predefined print settings	Yes, for filaments from Omni3D and for selected filaments from external producers
Drive Type	screw drives in all axes	Capable files	.stl, .obj, .3mf, .gcode, .factory
Nozzle diameter	0,2 / 0,4 / 0,6 / 0,8 / 1,0 mm	Power supply	230 V / 50 Hz (optional 110 V / 60 Hz)
Filament diameter	1,75 mm	Max. power consumption	2,2 kW
Max. printing speed	86 cm <sup>3</sup> / h	Printer dimensions	120 x 107 x 77 cm
Dimensional accuracy	+/- 0,12% (not less than +/- 0,12mm)	Printer weight	190 kg
Automatic platform calibration	Yes	Safety certification	CE
Air filtration	CARBON + HEPA (optional)	Warranty	12 months (with the option of prolonging)
Max. head temperature	360°C (optionally 420°C)		

## OMNI NOVA UNIQUE POINTS



### 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 Cooling System™

The extruder direct cooling system, which allows the extruder to be used in a heated chamber and provides better control over the dimensional precision of the printout.



### Omni3D Air Circulation™

Regulation of the temperature of the printout on its entire surface, thanks to maintaining a constant temperature inside the printer.

## NEW VERSION RELEASED IN 2023



### External construction

The printer has undergone a thorough change, visually becoming similar to Factory 2.0 NET



### Electronics

Wanting to minimize possible risks and secure the supply of these devices in the future - the electronics were changed to similar to the rest of the equipment. What is more, the use of new electronic components guarantees the continued progress of the product. At the current level - the machine provides higher quality with increased performance.



### Table and axes

We decided to optimize the entire system and introduce a dual-zone heater, which directly translates into increased efficiency and minimizes the risk of undesirable phenomena.

## 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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