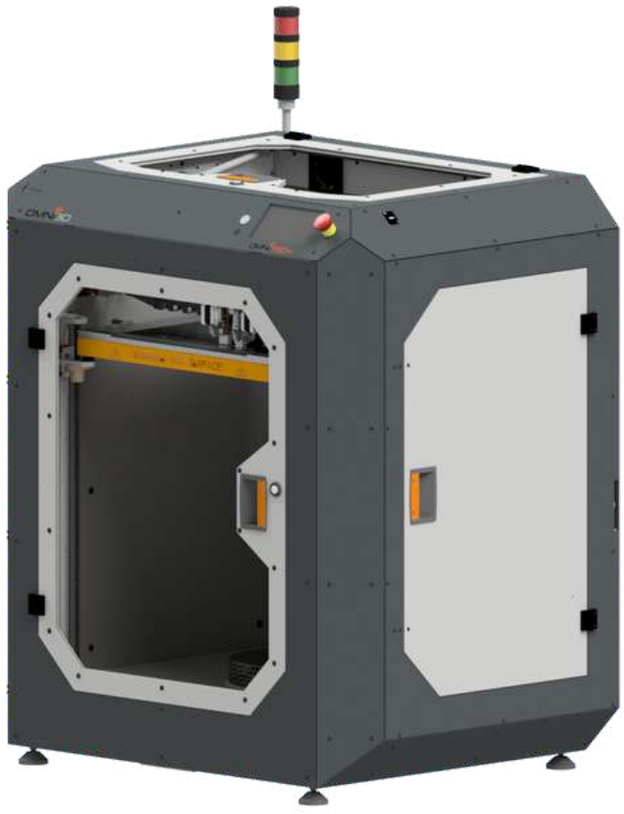
OMNI3D
Industrial 3D printing

OMNITECH

OMNI TECH / FACTORY 2.0 NET



COMPATIBLE FILAMENTS:

ABS-42
ABS V0
ABS FC
ASA-39
PC-ABS-32
PET-G-32
PETG CARBON
PA-12
PA 6/66 HD
TPU-93A
HIPS-20
ODS-20
PVA-20
CF PA-12
PLA-36
GF30-PA6
THERMECZED
PEKK-A
ABS FUSION+

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
Chamber	enclosed, isolated and actively heated	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	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	Capatible files	.stl, .obj, .3mf, .gcode, .factory
Nozzle diameter	0,4 mm (optionally 0,6 / 0,8 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^3 /h	Printer dimensions	120 x 107 x 77 cm
Dimensional accuracy	+/- 0.2% (not less than +/- 0.2mm)	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	260°C / 360°C / 420°C		

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OMNI TECH 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

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

Printhead detection
New system reduces printhead failure to a minimum and makes the machine resistant to possible user error by limiting, for example, the maximum temperature to which the printhead can be heated.

NEW

Improved thermal insulation of the build chamber
It allows better temperature balance and reduces heating time of the working build chamber and enables more efficient cooling of the printer electronics. Combined with the chamber's heater mode of maintaining a constant temperature - we reduce power consumption and increase the life of the heater itself.

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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