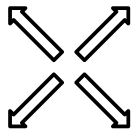# OMNI PRO

LARGE-FORMAT FUNCTIONAL PARTS FOR EXTREME CONDITIONS:
TEMPERATURE, CHEMICAL, AND MECHANICAL STRESS

OMNI3D

EMPOWERING **INNOVATION**. REDEFINING **MANUFACTURING**.
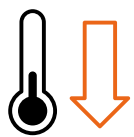
OMNI3D

OMNIPRO

MAIN FEATURES

Large working space
With a generous 500 x 500 x 500 mm build volume, the OmniPRO 6 can handle large-format prints and multiple smaller parts simultaneously.
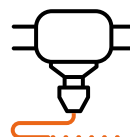
Omni3D Filament Flow Control™
Precisely controls filament flow, ensuring consistent extrusion and superior print quality.

Exclusive Patented Omni3D Cooling System™
Enables direct extruder cooling within a heated chamber, optimizing thermal management and enhancing dimensional precision.
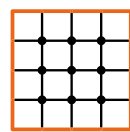
Omni3D Head Leveling Control™
Automatically adjusts extruder height for optimal performance, delivering consistent layer adhesion and dimensional accuracy.

Omni3D Air Circulation™
Ensures precise temperature control throughout the build chamber, leading to improved print quality and part consistency.

Omni3D Platform Autoleveling System™
Automatically levels the print bed, guaranteeing accurate and repeatable results, regardless of print head position.

1

PRE-SALE ASSESSMENT

Cost-benefit analysis prepared by Omni3D 3D sale & technical teams.

2

BENCHMARKS

Check your model print quality with real 3D printed samples.

3

TAILORED SOLUTION

3D printers, materials, accessories, engineering and printing services.

4

TRAINING & SUPPORT

ROI Assessment, installation, training, technical support and after-sale service.

sales@omni3d.com, +48 61 666 12 34
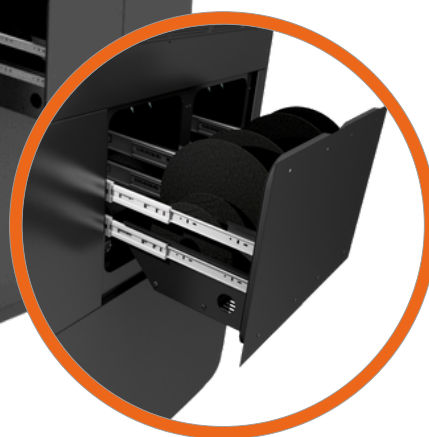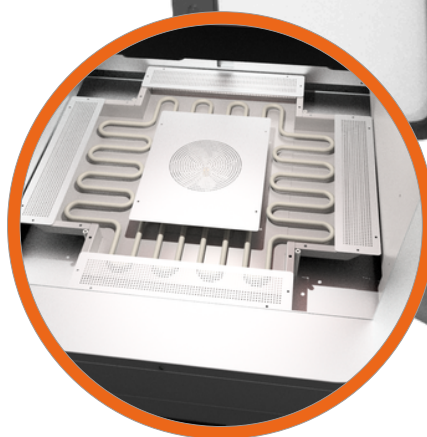OMNI3D Sp. z o. o., ul. Świętego Michała 43, 61-119 Poznań, Poland

www.omni3d.com

OMNI3D

TECHNICAL SPECIFICATION

Print technology	FFF (fused filament fabrication)	Max. platform temperature	180°C
Build volume XYZ	500 x 500 x 500 mm	Max. chamber temperature	140°C
Chamber	Enclosed, isolated and actively heated	Built-in filament dryer for 4 spools	Yes (max. 4 x 3 kg), up to 120°C
Min. layer height	50 µm	Automatic change of filaments	Yes
Build Platform	Heated, easily removable and replaceable PEI surface	Built-in accessory drawer	Yes
Number of printing heads	2 - electronic lifting system	Communication	SD Card, Ethernet, WiFi, USB
Drive type	X, Y, Z axes - ball screw drives; all drives with encoders	Control	10.1" LCD, website, camera
Nozzle diameter	0.2 / 0.4 / 0.6 / 0.8 / 1.0 mm	Software	Simplify3D
Filament diameter	1,75 mm	Predefined print settings	Yes, for Omni3D filaments and Omni3D approved filaments.
Max. printing speed	120 cm³/h	Supported files	.stl, .obj, .3mf, .gcode, .factory
Positioning accuracy	+/- 1.56 µm. in all axes (theoretical)	Power	230V / 50Hz (optionally 110 V / 60 Hz)
Printed part accuracy	+/- 0.12% (not less than +/- 0.12mm)	Max. power consumption	3kW
Automatic platform callibration	Yes	Printer dimensions	160 x 110 x 150 cm
		Printer weight	500 kg
Air filtration	CARBON + HEPA	Safety certification	CE
Max. head temperature	500°C	Warranty	12 months (with the option of prolonging)

OMNi3D

OMNi PRO
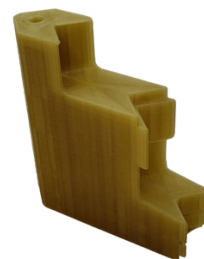## LARGE-FORMAT FUNCTIONAL PARTS
FOR EXTREME CONDITIONS

AEROSPACE　　**AUTOMOTIVE**　　**DEFENSE**　　**TOOLING**