

High Temperature Industrial 3D Printer

Open Materials, Infinite Applications

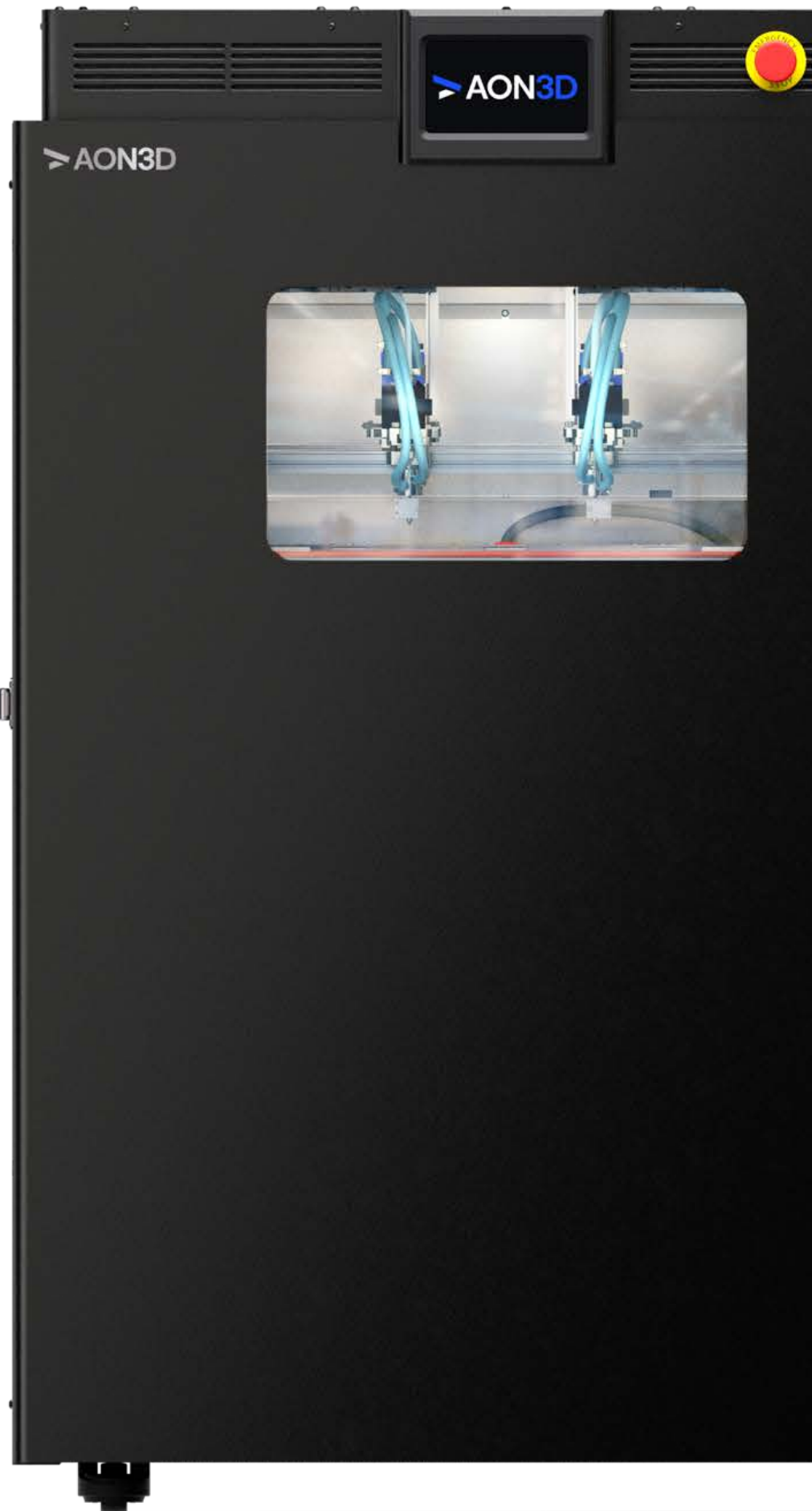
Print thousands of engineering-grade thermoplastics and composites with the part properties needed for end-use applications.

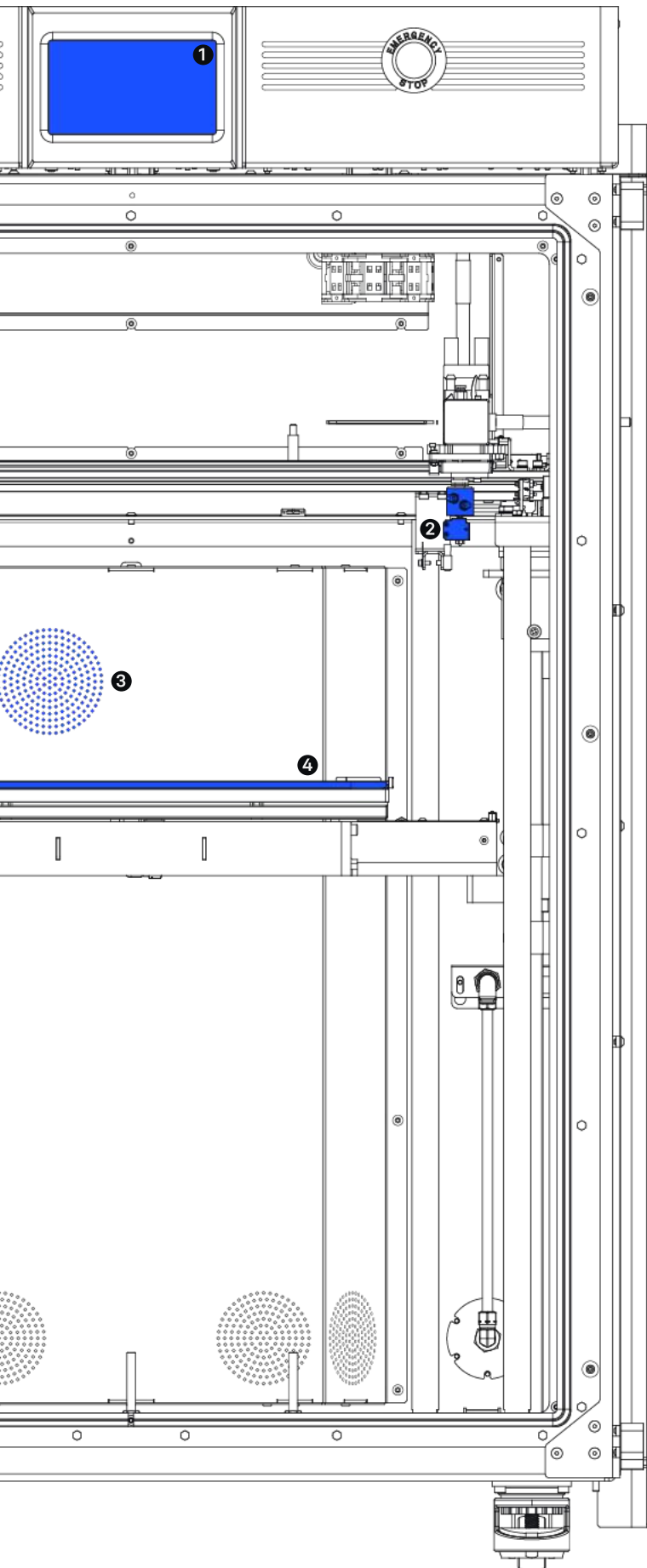
Repeatable, High-Quality Results

A precision-controlled heated printing environment provides consistent parts and part properties across the build volume, across printers, and across production runs.

Industrial 3D Printing Made Accessible

Easy-to-use, affordable hardware and materials backed by expert additive manufacturing knowledge and support make the AON M2+ accessible for all.





Open Material Format

Print the materials you want, from economical to composites and newly developed thermoplastics.

1 Configurable Process Controls

Print with pre-made print parameters or develop your own for new materials or desirable part properties.

1 Remote Management

Send and manage prints from the comfort of your desk or home, the AON M2+ features Ethernet and Wi-Fi capabilities. Wi-Fi can be disconnected upon request.

2 High-Temperature, Composite Ready

Dual independent 500°C+ extruders with hardened steel nozzles.

3 Forced Convective Air Flow

A thermal optimized, precision-controlled build chamber ensures static printing temperatures

4 Heated Vacuum Bed

Speed production cycle times or change bed adhesion properties based on print material.

Automated Mesh Leveling

Faster and improved automated leveling provides perfect first layers with variable print surface thickness and bed inconsistency compensation.

Specifications

Technology	Material Extrusion (MEX) / Fused Filament Fabrication (FFF)
Build Volume	450 x 450 x 580 mm (x,y,z)
Extruders	Dual Independent
Chamber Temperature	135°C
Max. Extruder Temperature	500°C+
Bed Temperature	200°C+
Print Surface Options	CF PEEK, PEI, PC, PPSU, and more
Z Layer Height	≥ 0.05 mm to 0.5 mm
Max Speed (Travel)	500 mm/s
Resolution (Positional Accuracy)	X/Y: 25 micron Z: 1 micron
Filament Size	1.75 mm
Standard Nozzle Size	0.6 mm
Available Nozzle Sizes	0.2, 0.25, 0.3, 0.4, 0.6, 0.8, 1.0, 1.2 mm
Recommended Slicer	Simplify3D
Connectivity	Ethernet, Wi-Fi (Can be disconnected upon request)
Control Interface	LCD touch screen, web browser interface
Supply Voltage	208-230 VAC, 50/60Hz, single phase
Plug Type	L6-20 (European adapter available)
Installed Dimensions	1450 x 955 x 1150 mm (H x W x D)
Compatible Materials	<p>ABS, ASA, Nylon (PA 6, 6/66, 12), PAEK, PC, PEEK, PEI (ULTEM™ 9085, 1010), PEKK, PETG, POM, PP, PPSU, PSU, PVDF, TPE, TPU, and more.</p> <p>CF ABS, CF PA, CF PC, CF PEEK, CF PEI, CF PEKK, CF PETG, CF PP, ESD ABS, ESD PA, GF ABS, GF PA, GF PETG, GF PP</p> <p>Aquasys 120, Aquasys 180, High Temp Support, HIPS, PEI Support, PVA</p>



Innovation Unlocked

Founded in 2015, AON3D is a venture capital backed, Montreal based additive manufacturing hardware, software, and material company. Instead of locking down features, materials, and software, AON3D encourages innovation with a combination of future-proof hardware, configurable process parameters, and on-demand materials engineers, application engineers, AM knowledge, and support.

The company's solutions drive innovation for hundreds of businesses in 25+ countries worldwide, ranging from small businesses to multinational Fortune 500 corporations.

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