



A high temperature industrial 3D printer for manufacturing full-scale, strong, high-performance parts. The AON M2+ unlocks additive manufacturing applications with ungated access to the world's most advanced materials, including PEEK, PEKK, and ULTEM™.

#### **Create Large Functional Parts**

Print full scale designs in the world's most advanced thermoplastics.

#### **Achieve the Best Final Part Properties**

Achieve high crystallinity parts, reduce part porosity, and more with precision thermals and advanced process controls.

#### **Production-Ready Printing**

Print more, reliably and repeatably, and reduce time-consuming post-processing.

### **AON M2+3D Printer**

#### >AON3D

## Specifications

Technology	Material Extrusion (MEX) / Fused Filament Fabrication (FFF)
Build Volume	450 x 450 x 565 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 Reusable plates or disposable sheets.
Z Layer Height	≥ 0.05 mm to 1+ 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, 50/60 Hz, 24.5A, Single phase
Installed Dimensions	1450 x 955 x 1150 mm (H x W x D)
Compatible Materials	ABS, ASA, Nylon (PA 6,6/66,12), PAEK, PC, PEEK, PEI (ULTEM™ 9085,1010), PEKK, PETG, POM, PP, PPSU, PSU, PVDF, TPE, TPU
	Carbon fiber, glass fiber, Kevlar®, and ESD safe variants of the above. Various soluble and breakaway support materials.

Trusted By























## Printer >AON3D

# AON M2+ 3D Printer Features

#### **Open Materials Format**

Print with nearly any 1.75 mm thermoplastic filament available on the open market, from any supplier.

#### Largest-in-Class Build Volume

Print full scale designs with a massive  $450 \times 450 \times 565$  mm (18 x 18 x 22 in) actively heated build volume.

#### **Composite-Ready Extruders**

Print up to 4x stronger parts with carbon fiber, Kevlar®, glass fiber, and ESD safe composites – no upgrades required.

#### Configurable Process Parameters

Reduce part porosity, increase crystallinity, speed up print times, explore new materials, and more with open access to process parameters.

#### **Actively Heated Build Volume**

A thermally optimized, precision–controlled 135°C build chamber provides consistent part properties and high isotropy across the build volume while maximizing in-situ crystallization.

#### Water-Cooled Tool Heads

Get high quality surface finish parts with clean transitions between materials. Superior hot end cooling improves retraction and prevents filament oozing, stripping, and clogs.

#### No Fuss First Layers

Automated high precision leveling with swappable build surfaces ensures uniform adhesion and bead- widths across the print bed. No rafts required.

#### **Independent Dual Extruders**

Access greater design freedom and minimize time consuming manual part cleanup with breakaway or soluble supports.

#### **Access Sensor Data**

Access real time sensor data to develop quality management processes which fit your application and industry requirements.









