



Hylo™ Specifications

TALK TO OUR EXPERTS

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1 (833) 772-6633

Hylo™

Specifications

Designed to close the gap between conventional manufacturing and additive, Hylo delivers industry-leading part performance and throughput while a fully automated printing experience and sensor-driven architecture enable new levels of accuracy and repeatability. Print stronger, larger, and faster in any material, no upgrades or unlock fees required.

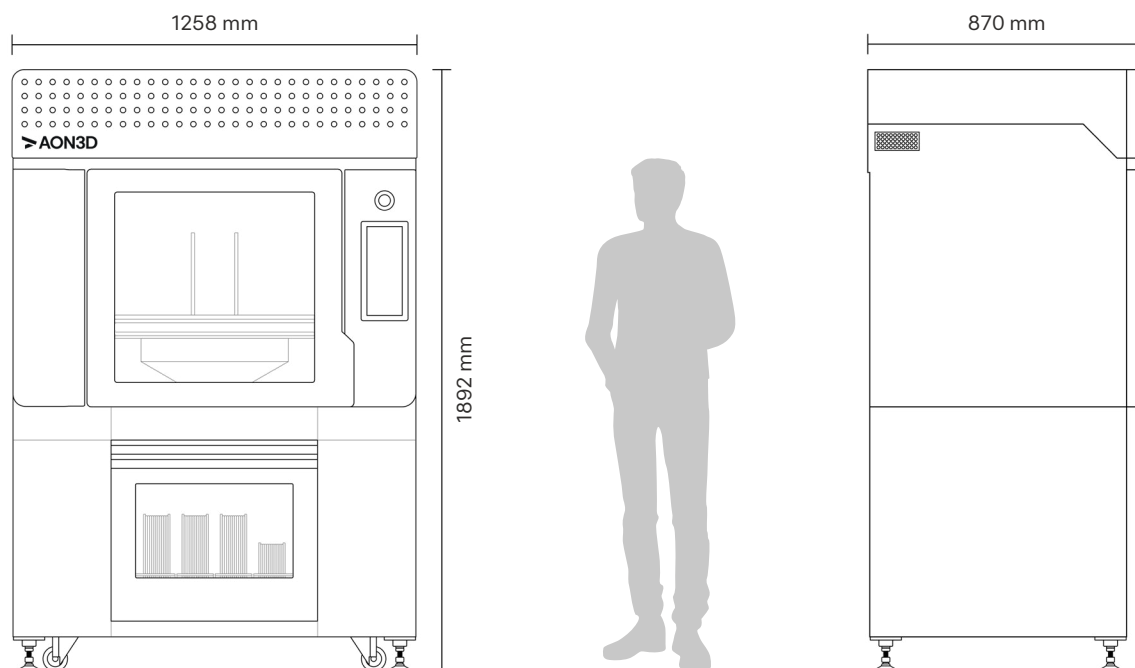
Technology	Material Extrusion (MEX)
Build Volume	650 x 450 x 450 mm (XYZ) 25.6 x 17.7 x 17.7 in (XYZ)
Extruders	Dual Independent (Composite-ready)
Print Modes	Single toolhead mode Duplication mode Multimaterial mode Support mode (Water soluble, detergent soluble, breakaway)
Layer Height	0.05 – 1.2 mm
Chamber Heat Up Time	< 60 min (Ambient to 250 °C)
Chamber Temperature	250°C
Bed Temperature	250°C
Nozzle Temperature	500°C
Nozzle Sizes	0.25, 0.4, 0.6 (Standard), 0.8, 1.0, 1.2 mm
Build Platform	Auto-leveling with vacuum chuck
Print Surface Options	CF PEEK, PEI, Garolite, and more. (Reusable sheets or plates)
Max Print Speed	500 mm/s
Max Travel Speed	600 mm/s
Max Acceleration	1 g
Max Build Rate	Up to 100 mm ³ /s or 385 cm ³ /hr (Polymer dependent)
Material Format	Open material system, 1.75 mm filament
Compatible Materials	ABS, ASA, Nylon (PA 6, 6/66, 12), PAEK, PC, PEBA, PEEK, PEI (ULTEM™ 9085, 1010), PI, PEKK, PETG, PLA, POM, PP, PPSU, PSU, PVDF, TPE, TPU, and many more. Carbon fiber, glass fiber, Kevlar®, and ESD safe variants of the above. Various soluble and breakaway support materials.
Material Storage Capacity	Up to four 2.2 kg reels or two 5kg reels
Material Loading/Changeover	Fully automated
Error Detection	Filament feed error, jam detection, and runout detection
Material Storage Dewpoint	-25°C

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Connectivity	Wi-Fi (Removable), Ethernet, USB port (File upload only)
Control Interface	12.3 in. LCD touch screen, cloud management
Installed Dimensions	1296 x 870 x 1892 mm (XYZ)
Weight	650 kg
Compressed Air Requirement	75-135 psig, minimum flow 1 CFM continuous, <50C (122F)
Supply Voltage	208-240VAC, 40 Amp, Single Phase
Sensors and Accessible Data	<ul style="list-style-type: none"> Microstep logging (As-executed motion) X/Y/Z linear encoders Nozzle, chamber, and bed thermals Nozzle force Optical nozzle inspection camera & automatic XY offset calibration Filament feed rate Filament diameter Filament feed tension/compression Material storage temperature, humidity, and pressure Ambient temperature, humidity, and pressure 4K chamber camera (Removable)

Dimensions



A close-up photograph showing a person's finger pointing at a file named "PHEX-multiplex-100-probe" in a file explorer interface. The interface shows a list of files with columns for Name, Modified &, and Size. Other visible files include "PHEX-tracks-trace2-probe", "PHEX-multiplex-15-probe", "PHEX-tracks-trim-probe", "Star-S-PHEX-140-probe", "Star-PHEX-14-probe", "Star-PHEX-probe", and "Star-PHEX-probe". The top navigation bar includes icons for back, home, search, and other functions.

A black, floor-standing industrial oven with a glass door showing internal heating elements. The oven is mounted on casters and has a sturdy metal frame. The interior is visible through the glass door, showing several curved heating elements. The oven is positioned on a light-colored floor against a dark background.

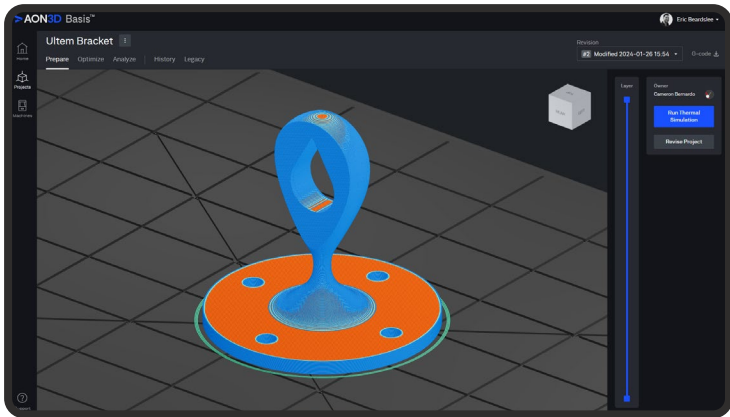
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Basis™

Smart Software

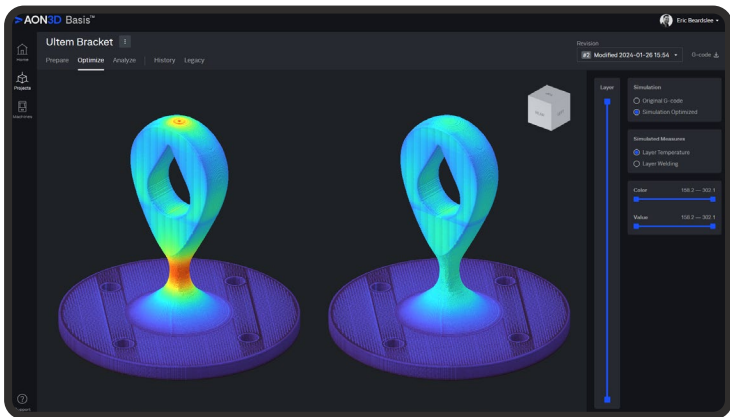


AON3D Basis closes the loop in additive manufacturing. Manage your projects and printers, achieve new levels of repeatability and part performance with machine learning optimization, and access process logs to aid in part qualification and quality assurance, all from a central platform.



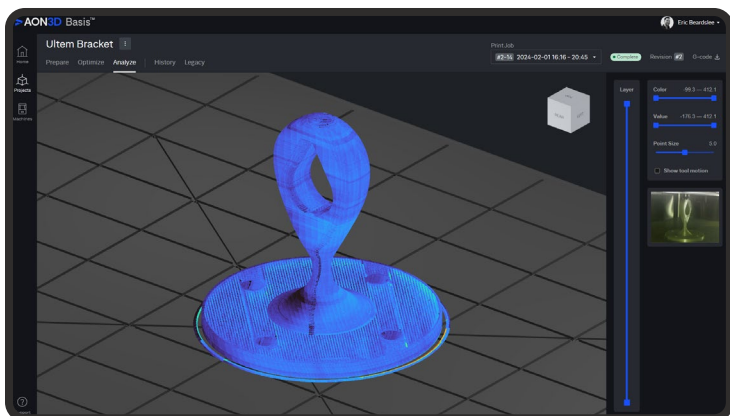
Prepare

Streamline production from the comfort of your desk. AON3D's secure cloud platform centralizes management of projects, printers, material inventory, maintenance schedules, users, and more.



Optimize

Identify and correct print issues before ever pushing print. AON3D's ultra-fast process simulation software utilizes machine learning to create dynamic process parameters based on part geometry and material, reducing print failures/defects and maximizing final part properties.



Analyze

Understand what's going on inside your parts by leveraging Hylo's sensor suite. View data-rich point clouds to identify internal defects, reduce QC burdens, assist in part qualification, and aid in troubleshooting.



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