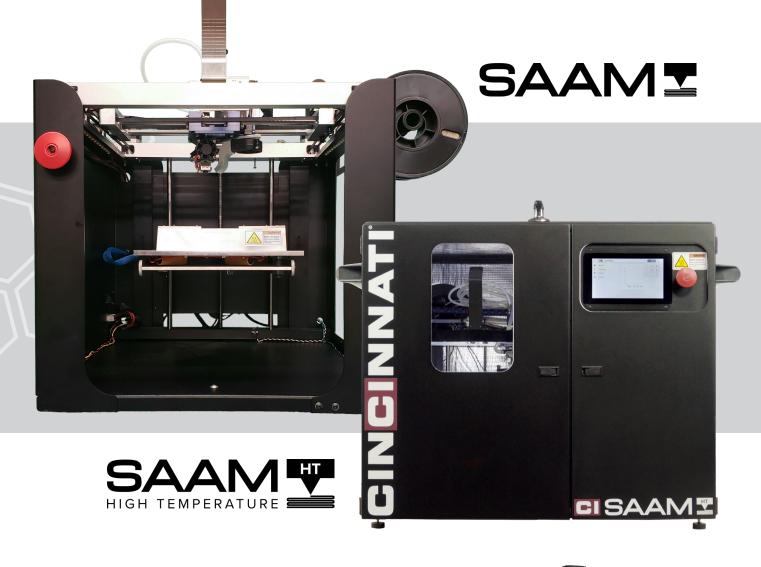


ADDITIVE SOLUTIONS

3D Print Your Way Everyday.





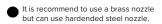
SAAM (Small Area Additive Manufacturing) can be used with any compatible 3D printing filament. The patented CI Automate system enables automatic part ejection for maximum productivity. SAAM's all-metal construction ensures quality results years longer than the competition.

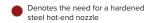






SPECIFICATIONS	SAAM SAAM HT					
Build Size	7.9" x 7.4" x 9.4" (200mm x 190mm x 240mm)					
Printer Dimensions	21" x 17.5" x 23" 30" x 22" x 23"					
MATERIALS'						
PLA	•	•				
ABS	• •					
PETG	• •					
Nylon	•	•				
Carbon-Fiber Nylon	•					
Glass-Filled Nylon	•	•				
Polycarbonate	8	•				
ULTEM 9085	8	•				
CF ULTEM 1010	8	•				
Glass-Filled PEEK	8	•				
Bound Metal Powder	8	•				
Z-Resolution	0.0004" (11 microns)					
Part Accuracy ²	0.005" (125 microns)					
Power Requirements	100-240V, 50-60Hz, 2.5-3.5A	120 VAC, 2kW, Single Phase				
Nozzle Temperature	572°F (300°C)	°C) 932°F (500°C)				
Bed Temperature	212°F (100°C)	482°F (250°C)				
Chamber Controller Temperature	n/a	230°F (110°C)				
Printer Management	Octoprint CI Edition					
Supported Slicers	Slic3r, Cura 4, Simplify3D					
Environmental Sensors	Ambient Conditions: Pressure, Humidity, Temperature					
Construction	6061 Aluminum and Steel Frame	All Metal Insulated Enclosure				
Enclosed Chamber	Available Included					
CI Automate	Available Available					
Movement	Direct Drive, Motion System rated for 5-year lifetime					
Print Plate	Patented Kinematically coupled Aluminum print plate					
Manufactured Location	United States: Boston, MA and Harrison, OH					





⁽x) Is not supported



Custom Tooling

Lean manufacturing requires flexible tools to enable improved efficiency, effectiveness, and profitability. Use SAAM to eliminate waste in your value stream today.

Rapid Fixtures

Drastically reduce cost and lead time on custom fixtures for any application. From inspection to machining to welding, SAAM can create the fixture that you need today.

Functional Parts

SAAM enables the fabrication of robust, end-use parts. Create complex geometries for custom manifolds, brackets, housings, frames, and more.

Rapid Prototyping

Skip the job shop for your next prototype. At the click of a button, use SAAM to create functional prototypes. Test your parts the same day you design them.



Continuous Operation

3D print unattended 24/7 with our patented Automated Ejection System



FFF 3D Printing

Build parts layer-bylayer to form virtually any shape imaginable



Performance Materials

Use your own materials to get the results you need

¹ Materials list represents materials successfully tested on SAAM. It does not guarantee assurance of the performance of third party materials.

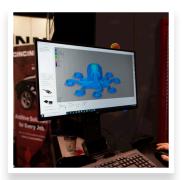
² Part accuracy is within 95% confidence interval, and is geometry dependent

INDUSTRIAL ADDITIVE MANUFACTURING



MAAM (Medium Area Additive Manufacturing) is an industrial sized additive machine built for production manufacturing. A rigid welded frame, CNC controls, and the latest extruder technology are combined in this machine to print parts accurately and consistently at speeds that are unmatched in the filament 3D printer market. Its dual print head allows for multi-material printing. Its open source material solution, along with its temperature capabilities in the chamber, print bed and nozzle allow for 3D printing the industry's most highly engineered thermoplastics.





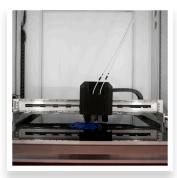


SPECIFICATIONS	МААМ		
BUILD ENVELOPE	1000mm x 1000mm x 1000mm (39.4"x39.4"x39.4")		
MAX NOZZLE TEMPERATURE	842°F (450°C)		
MAX BED TEMPERATURE	302°F (150°C)		
MAX CHAMBER TEMPERATURE	194°F (90°C)		
Z RESOLUTION	0.008" (0.2mm)		
MAXIMUM TRAVEL SPEED	500 mm/sec		
NOZZLE DIAMETER	0.6mm – 2.4mm		
FILAMENT DIAMETER	2.85 mm ± 0.05 mm		
EXTRUSION	Dual MHZ2.0 Extruders with Maximum 1.0 kg/hr Extrusion Rate, Water Cooled		
PRINT BED	Aluminum Fabricated Print Bed with 4 Point Leveling and Removable Glass Print Surface		
PRINTER DIMENSIONS	106" x 66" x 85" (2.7 m x 1.7 m x 2.2 m)		
PRINTER WEIGHT	3000 lbs (1361 kg)		
POWER	208 - 240 Volts, Single Phase 60Hz, 60 Amp Circuit		



Control

- Windows 10 PC on 24" LCD Monitor with WiFi & Ethernet Connectivity
- Yaskawa Sigma 7 CNC Motion Control on a Cartesian System
- Compatible with any slicing software



Build Chamber

- Print parts up to 1 cubic meter with the accuracy and precision of a small scale printer
- Insulated and heated chamber allows for printing highly engineered, high temperature thermoplastics



Material

- Open source material solution
- Onboard environmentally controlled filament cabinet with space for multiple spools
- Dual material print capabilities allow for printing with soluble support material

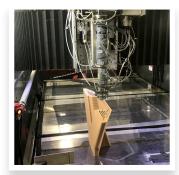
PRINT LARGE | PRINT FAST



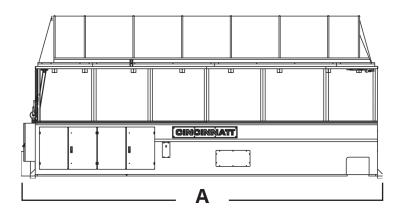
BAAM

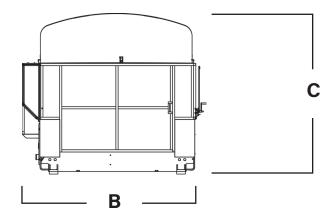
BAAM (Big Area Additive Manufacturing)) is for manufacturing durable tooling, prototype or production parts from fiber-reinforced plastic. BAAM makes large objects out of readily available, commodity priced, extrusion grade thermoplastics. BAAM can print parts the size of a car at a rate of up to 80 pounds per hour. CI is transforming the way the world thinks about additive manufacturing.











SPECIFICATIONS	603	606	608	806		
MACHINE DIMENSIONS						
Length (A)	308"	308"	308"	427"		
Width (B)	144"	144"	144"	153"		
Height (C)	128"	171"	198"	172"		
Weight	32,000 lbs	32,000 lbs	32,000 lbs	40,000 lbs		
Power	460V/ 3 Phase/ 60 Hz					
WORKPIECE DIMENSIONS						
X-Axis	140"	140"	140"	240"		
Y-Axis	65"	65"	65"	90"		
Z+W Axis	36"	72"	98"	72"		

All Dimensions are preliminary and are subject to change.



Construction

- Stress relieved Steel plate fabricated frame
- Aluminum honeycomb gantry
- Linear motor drive system
- Absolute positioning accuracy: +/- 0.005"



Extruder

- Feedrate: 80 lbs/hour
- Dynamic Flow Control
- Unique Automatic Tamping
- Proprietary Extruder for 3D Printing
- Extrusion Die (Nozzle)
 Diameters: 0.200", 0.300" and 0.400"



Materials

CINCINNATI and our partners have used dozens of materials including: ABS, PPS, PC, PLA, and PEI. By adding carbon fiber, glass fiber, or organic fiber strength and thermal stability is improved.

Users are welcome to develop their own proprietary materials and parameters.



Control

- Microsoft Windows® EmbeddedOS
- 22" LCD color touch screen
- Network interface/USB Outlet



7420 Kilby Rd. Harrison, OH 45030

(513) 367-7100

info@e-ci.com

🏶 www.e-ci.com

CINCINNATI

CI is a U.S.-based, build-to-order machine tool manufacturer and has shipped more than 50,000 machines in 120 years of operation. The campus has a 500,000-square-foot plant and technical center on an 200+ acre site near Cincinnati, Ohio. Current products include: Laser Cutting Systems, Automation, Plasma Tables, Press Brakes, Shears, Powdered Metal Compacting Presses, Software, BAAM (Big Area Additive Manufacturing), MAAM (Medium Area Additive Manufacturing) and SAAM (Small Area Additive Manufacturing).















