

rely on the removal of material by methods such as cutting or drilling (subtractive processes). Additive manufacturing is ideally suited for tooling, fixturing, prototyping and

short run production.

# 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. CI engineers and builds machines to the standard of ruggedness required in the North American market. Current products include: Laser Cutting Systems, Automation, Press Brakes, Shears, Powdered Metal Compacting Presses, Software, BAAM (Big Area Additive Manufacturing), MAAM (Medium Area Additive Manufacturing) and SAAM (Small Area Additive Manufacturing).













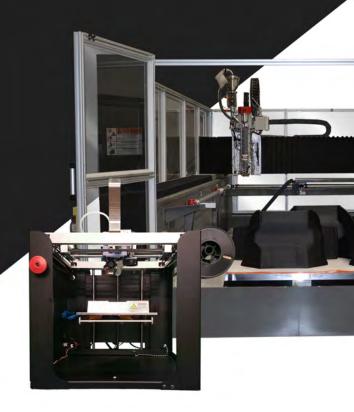


# CONTACT US

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# ADDITIVE SOLUTIONS

3D Print Your Way Everyday.





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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"	
Z-Resolution	0.0004" (11 microns)		
Part Accuracy <sup>1</sup>	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)	932°F (500°C)	
Bed Temperature	212°F (100°C)	482°F (250°C)	
Chamber Controller Temperature	n/a	320°F (160°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		



CISAAME

# **Continuous Operation**

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



FFF 3D Printing

Build parts layer-by-layer to form virtually any shape imaginable



**Performance Materials** 

Use your own materials to get the results you need

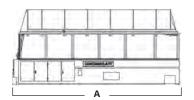


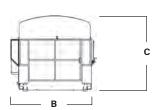




BAAMI







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

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
- 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.

<sup>&</sup>lt;sup>1</sup> Part accuracy is within 95% confidence interval is a geometry dependent