

WE'VE MADE HISTORY

with our groundbreaking 3D printing technology. This technology allows you to create 3D large-scale products in a matter of hours.





CINCINNATI INCORPORATED

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).



3D PRINTING

BAAM (Big Area Additive Manufacturing) is an industrial sized, additive machine. BAAM uses proven machine tool technology. The addition of a custom extruder and feeding system make a new class of 3D printers. BAAM was designed to allow 3-D printing to be used for production manufacturing. The size and speed allow large parts to be made quickly. The ability to use commodity thermoplastic materials means that the cost per part will be reasonable. By designing a system with an open architecture for material vendors, material costs will be kept lower and with more options.



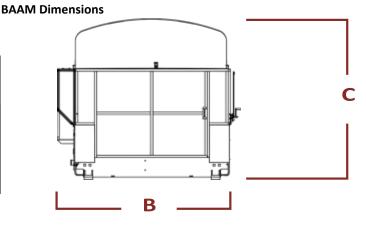
ADDITIVE MANUFACTURING

3D printing or Additive manufacturing is a process of making a three-dimensional solid object from a digital model. The solid model is sliced into layers in software and 3D printing is achieved using an additive process, where layers of material are added, one on top of another to build a complete part. 3D printing is also considered distinct from traditional machining techniques, which mostly 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.

To Learn More, Visit: www.e-ci.com/baam

MACHINESPECIFICATIONS

Length (A) Width (B) Height (C) Weight Power 606 308" 144" 171" 32,000 lbs 460V/ 608 308" 144" 198" 32,000 lbs 3 Phase/ 60 Hz 806 427" 153" 172" 40,000 lbs

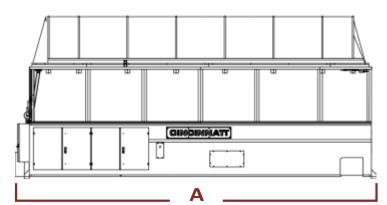


Workpiece Dimensions

	X axis	Y axis	Z+W axis
606	140"	65"	72"
608	140"	65"	98"
806	240"	90"	72"

All Dimensions are preliminary and are subject to change.

	X axis	Y axis	Z+W axis
606	140"	65"	72"
608	140"	65"	98"
806	240"	90"	72"





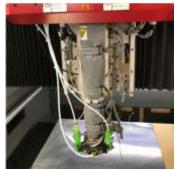
CONSTRUCTION

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) Diamete 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® **Embedded OS**

22" LCD color touch screen

Network interface/USB Outlet

