



RAM123™ 3D-PRINTER

RAM123 Advantages:

- Continuous Production
- Simple to Use Software
- Robust ABB Robotics
- Heavy Duty Palmer Auxillaries
- Short Set-up Time
- Optimized Materials Consumption
- Lower Installation Cost
- Lower Operating Cost
- Standard Foundry Sands and Resins

RAM123 Base System Includes:

- 28" Wide Printhead,
- ABB(R) Robotics & Controls
- Palmer(R) P-12 Powder Feeder
- Palmer 4000lb Hopper
- Uses Pre-blended Materials
- ViriPrint(TM) Desktop Software
- 1 year System Warranty
- Dry Catalyst Furan(TM) Materials

Optional Upgrades:

- Palmer Bulk Sand Refilling System
- Palmer Sand Sifting Station

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The RAM 123 from EnvisionTEC and Viridis3D is the fastest, most flexible robotic 3D printing platform in the industry.

Using a patent-pending technology, a proprietary print head attached to an ABB robot arm uses exclusive binder jetting technology to print sand molds and cores for the foundry industry. The proprietary system includes easy-to-use software that uses a CAD file to print a mold and core in just a few hours.



Foundries will appreciate the speed with which the system prints — and how fast their operation can be up and running with the new technology. What's more, the RAM 123 uses less sand and is substantially less expensive than other sand casting 3D printers on the market today.

This disruptive technology brings a new way of production to foundries — instead of shipping castings around the world, raw materials are shipped and files are simply transmitted to 3D printers in strategic locations. The result is castings are poured the same day, only where you need them.

Machine Properties*	RAM 123
Build Envelope:	305 mm x 610 mm x 914 mm
Print Resolution	100 dpi
Accuracy:	+/- 100 microns
Layer Thickness:	200-500 µm
Build Speed:	75 mm / hour minimum
Materials:	Standard Foundry Sands and Resins, PMMA, Ceramics

* Specifications are subject to change without notice.