InnoventX™ Specifications

About

The InnoventX™ is an accessible and affordable entry-level binder jet 3D printing system that processes a wide range of powders, from ultra-fine metal injection molding (MIM) powders to coarse sands, ceramics and other specialty materials. This open-materials system allows full access to parameters in a compact and easy-to-manage build volume that is perfect for R&D, including material development, as well as academic settings. With excellent surface finish results, the InnoventX™ is also suitable for prototyping and short-run production of small components across a wide range of industries.

System benefits

- Compact and affordable, it only takes a 10-pound bag of standard MIM powder to get started — and the small build volume keeps ongoing operating costs low
- Open materials and controls gives users full control
- 3D prints metal, ceramic, sand and composite powders
- Patented Triple ACT advanced compaction technology dispenses, spreads and compacts ultra-fine MIM powders
- Production-capable repeatability and sintered part densities exceeding 97%, depending on material, in line with MIM results
- Wide range of metal print materials: 316L, 17-4PH, 304L, Inconel 718, M2 and H13 Tool Steels, Copper and more

TECHNICAL DATA	Print technology	Triple ACT (Advanced Compaction Technology)
	Print direction	Uni-directional (Bi-directional programmable)
	Binder jetting module	1 piezo-electric printhead (256 nozzles)
PERFORMANCE	Max build rate*	54 cc/hr (3 in^3)
	Print resolution**	> 30 µm voxels
	Layer thickness	30 to 200 µm
PHYSICAL	External dimensions (W x D x H)	1,146 x 794 x 1,344 mm (45.1 x 31.3 x 52.9 in)
	Weight	500 kg (1,100 lbs)
	Build box envelope (W x D x H)	160 x 65 x 65 mm (6.3 x 2.5 x 2.5 in)
	Build volume	0.676 L (41 in^3)
	Chamber environment	Not inerted
	Onboard controls	Open
ELECTRICAL	Electrical requirements	• 120 V, 60 Hz, 1-phase • 230 V, 50 Hz, 1-phase
MATERIALS	Powders	Open platform, capable of printing metal, ceramic, sand and composite powders with a D50 of 3 to 100 µm
	Binder systems	• AquaFuse™ • FluidFuse™ • PhenolFuse™ • CleanFuse™

* 65 micron layer thickness

** Print resolution is based on using a 10 picoliter printhead and 30 µm layer. Results may vary on system configuration and materials used.

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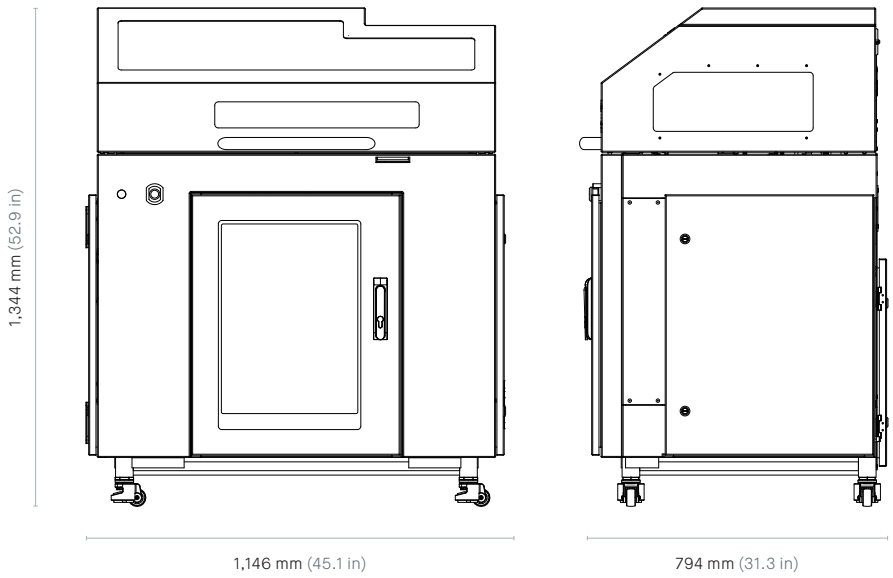
DIMENSIONS



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