

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

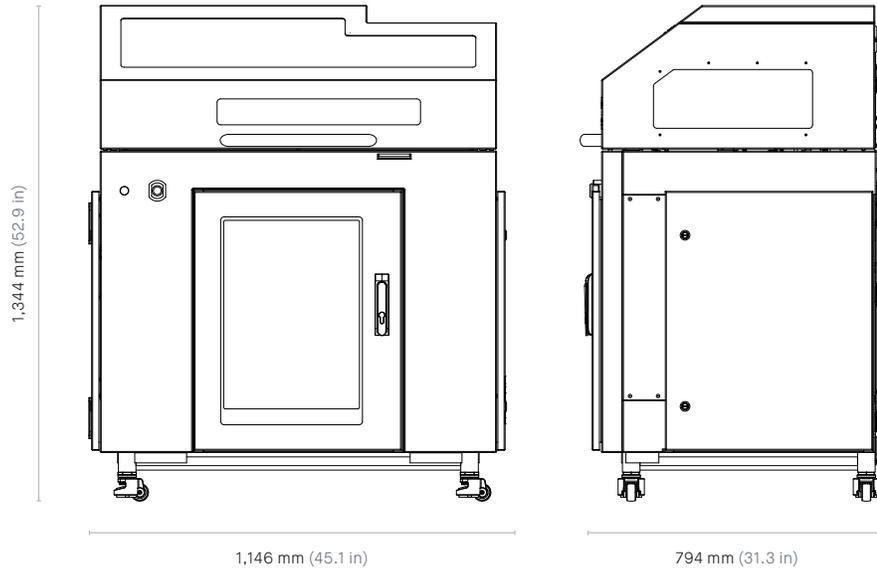
TECHNICAL DATA	Print technology	Triple ACT (Advanced Compaction Technology)
	Print direction	Uni-directional (Bi-directional programmable)
	Binder jetting module	1 piezo-electric printhead (256 nozzles)
PERFORMANCE	Max build rate*	54 cc/hr (3 in ³)
	Print resolution**	> 30 µm voxels
	Layer thickness	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 L x H)	65 x 160 x 65 mm (2.5 x 6.3 x 2.5 in)
	Build volume	0.676 L (41 in ³)
	Chamber environment	Not inerted
	Onboard controls	Open
ELECTRICAL	Electrical requirements	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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.

InnoventX Specifications

DIMENSIONS



X25Pro[®]

Specifications

About

The X25Pro[®] delivers proven powder binder jet 3D printing capability — from ultra-fine metal injection molding (MIM) powders to coarse sands, ceramics and other specialty materials. Delivered in a respectable and manageable mid-sized build volume of 25 liters, this open-materials system meets a wide variety of needs, from prototyping to serial production. The Desktop Metal X25Pro is being used by global customers for production and offers benefits expected in an Additive Manufacturing 2.0 system, including the design freedom to easily produce complex parts.

Key benefits

- Builds high-density metal parts at production speeds
- 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
- Wide range of metal print materials: 316L, 17-4PH, 304L, Inconel 718, M2 and H13 Tool Steels, Copper and more
- Offered with a complete work cell of ancillary equipment, such as powder conditioning and depowdering systems

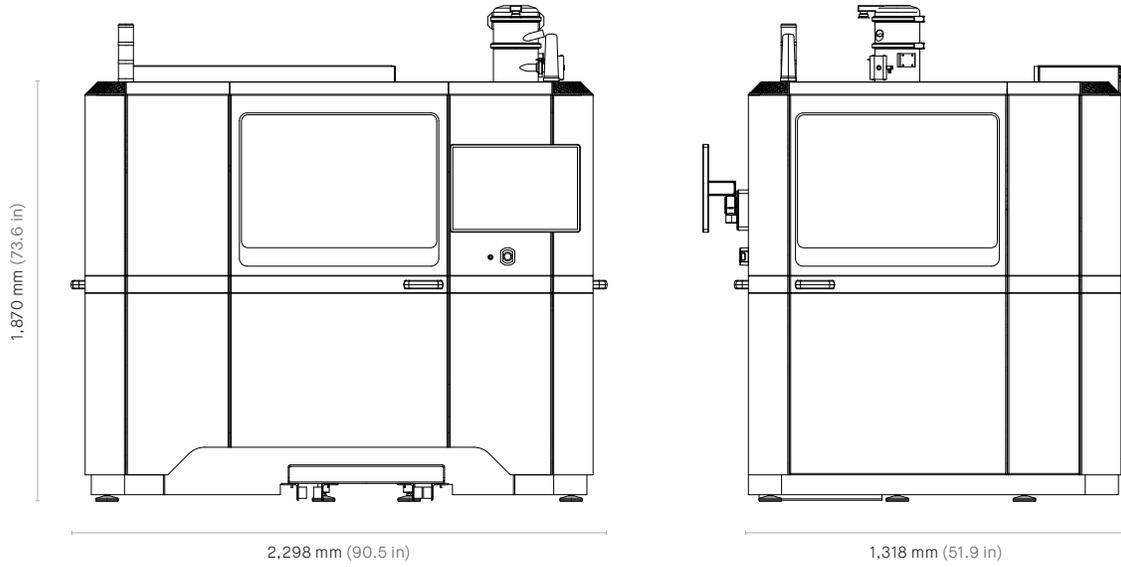
TECHNICAL DATA	Print technology	Triple ACT (Advanced Compaction Technology)
	Print direction	Uni-directional
	Binder jetting module	2 piezo-electric printheads (2,048 nozzles)
PERFORMANCE	Max build rate*	1,200 cc/hr (73 in ³ /hr)
	Print resolution**	> 30 µm voxels
	Layer thickness	30 to 200 µm
PHYSICAL	External dimensions (W x D x H)	2,298 x 1,318 x 1,870 mm (90.5 x 51.9 x 76.6 in)
	Weight	2,000 kg (4,409 lbs)
	Build box envelope (W x L x H)	250 x 400 x 250 mm (9.84 x 15.75 x 9.84 in)
	Build volume	25L (1,526 in ³)
	Chamber environment	Not inerted
	Onboard controls	Open
ELECTRICAL	Electrical requirements	208-240 V, 50/60 Hz, 3-phase
MATERIALS	Powders	Open platform, capable of printing metal, ceramic, sand and composite powders with a D50 of 3 to 100 µm
	Binder systems	<ul style="list-style-type: none"> • 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.

X25Pro® Specifications

DIMENSIONS



X160Pro[®]

Specifications

About

The X160Pro[®] delivers proven powder binder jet 3D printing capability — from ultra-fine metal injection molding (MIM) powders to coarse sands, ceramics and other specialty materials. Delivered in Desktop Metal's largest metal binder jet build volume of 160 liters, this open-materials system meets a wide variety of needs, from prototyping to serial production, for the largest part designs or arrays of parts. The Desktop Metal X160Pro is being used by global customers for production and offers benefits expected in an Additive Manufacturing 2.0 system, including the design freedom to easily produce complex parts.

System benefits

- Builds larger high-density metal parts or arrays of parts, at production speeds
- 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
- Wide range of metal print materials: 316L, 17-4PH, 304L, Inconel 718, M2 and H13 Tool Steels, Copper and more
- Offered with a complete work cell of ancillary equipment, such as powder conditioning and depowdering systems

TECHNICAL DATA	Print technology	Triple ACT (Advanced Compaction Technology)
	Print direction	Uni-directional
	Binder jetting module	4 piezo-electric printheads (4,096 nozzles)
PERFORMANCE	Max build rate*	3,120 cc/hr (190 in ³)
	Print resolution**	> 30 µm voxels
	Layer thickness	30 to 200 µm
PHYSICAL	External dimensions (W x D x H)	3,498 x 2,010 x 2,220 mm (137.7 x 79.1 x 87.5 in)
	Weight	3,700 kg (8,157 lbs)
	Build box envelope (W x L x H)	500 x 800 x 400 mm (19.7 x 31.5 x 15.8 in)
	Build volume	160 L (9,763 in ³)
	Chamber environment	Not inerted
	Onboard controls	Open
ELECTRICAL	Electrical requirements	400 V, 50/60 Hz, 3-phase
MATERIALS	Powders	Open platform, capable of printing metal, ceramic, sand and composite powders with a D50 of 3 to 100 µm
	Binder systems	<ul style="list-style-type: none"> • 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.

X160Pro™ Specifications

DIMENSIONS

