

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 D x H)	800 x 500 x 400 mm (31.5 x 19.7 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.

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DIMENSIONS

