

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

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| 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 xH) | 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.

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DIMENSIONS

