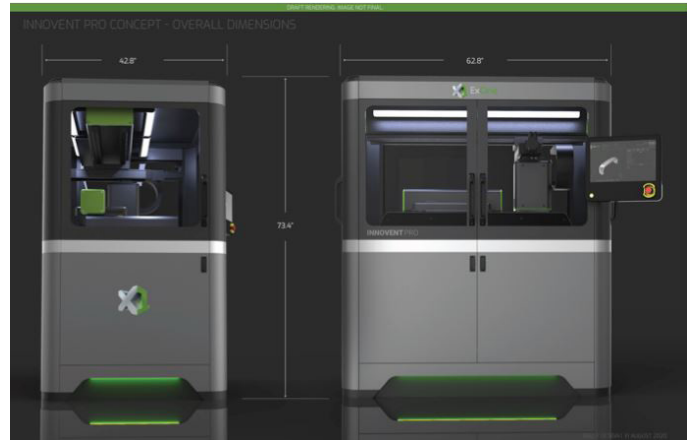


InnoventPro

The world's most advanced entry-level binder jetting system for 3D printing metal, ceramic, or composite powders into precision parts.



With the InnoventPro, ExOne is delivering an advanced entry-level system that combines the ease of use of the Innovent+ (the world's best-selling metal binder jetting system since 2016) with the production robustness of the X1 25Pro launched in 2019. The InnoventPro will offer two build sizes, a 3-liter and a 5-liter, with print speeds topping 700 cc/hour. This open-materials printer is capable of 3D printing more than 20 materials and is suitable for academics, researchers, and any manufacturer who wants to 3D print parts quickly, affordably and sustainably. The InnoventPro 3L is slated for volume delivery in Q1-Q2 2022, with the 5L to follow in Q2-Q3 2022.

PRELIMINARY TECHNICAL SPECIFICATIONS

Build Boxes	Build Volume	Max. Build Rate	Layer Height	Print Resolution*
125 x 220 x 100 mm 125 x 220 x 200 mm	2.75 L 5.5 L	700 cc/hr	30 to 200 µm	>30 µm voxels
Min. Powder Size	External Dimensions	Weight	Electrical Requirements	Binder Systems
5 µm (d50)	1.6 x 1.1 x 1.9 m	TBD	208-240V 3-phase 50/60Hz	AquaFuse, CleanFuse, FluidFuse, NanoFuse™, PhenolFuse

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

SYSTEM BENEFITS

- The InnoventPro 3L can 3D print *final* parts up to 100 x 180 x 80 mm using MIM-sized powders.
- The InnoventPro 5L can 3D print *final* parts up to 100 x 180 x 160 mm using MIM-sized powders.
- Features the same recirculating printhead modules used on the X1 25Pro® and X1 160Pro™ production metal 3D printers, allowing users to easily scale up from R&D to volume production.
- Includes ExOne's patented Triple ACT recoating system, which delivers industry-leading part density and repeatability.
- Consistently transforms more than 20 metal, ceramic and composite powders into high-density parts (>97%).
- Unparalleled powder handling and management: No emissions, with a system that is easy to clean and change powders.
- Features Siemens controllers and Siemens MindSphere (first year included in plan), with the ExOne Scout App for remote monitoring and alerts.
- Option to 3D print a new class of patented NanoFuse™ binders embedded with nanoparticles to improve part quality and simplify sintering.