

A Complete, Affordable Solution for Lab Environments

Offering eight times the print volume of prior lab models and designed for research and educational customers, the Innovent™ printer is an excellent tool for developing powdered materials and processes, as well as training the next generation of manufacturing engineers and powdered metal scientists.



Simple, low cost solution

- Compact size ideal for laboratory use
- Package includes printer, curing oven, furnace and starter materials
- Simple to set-up, use and maintain

Breakthrough technology

- No support structures
- Proven printhead technology for precise dosing of binding agent

Industry-grade materials

- Print in stainless steel, iron, bronze, tungsten, Alloy IN 625 or glass. Optionally configure for testing with other materials
- Produce small functional prototypes

High accuracy

- Highly-accurate printing process guarantees highly-accurate parts

Suited for complex geometry

- Greater design freedom



TECHNICAL SPECIFICATIONS

Process cell including job box

Build volume	l x w x h 160 x 65 x 65 mm
Build speed	30-60 seconds/layer
Layer thickness	100.0 µm (0.0039 in)
Print resolution	X/Y/Z 63.5 µm/ 60.0 µm/ Z 100.0 µm
External dimensions	l x w x h 1203 x 887 x 1434 mm
Weight	320 kg (700 lbs)
Electrical requirements	120V 1P 60Hz / 230V 1P 50Hz
Data interface	STL, CLI, SLC
Operator interface	Full HD (1920 x 1080) multi-touch display

CONSUMABLE MATERIALS

- ExOne® 420SS material for printing 0.10 mm layer thickness
- ExOne® bronze material used for infiltrating stainless steel
- ExOne® thermal support powder used during furnace cycle
- ExOne® binder, aqueous based ink for use with ExOne® materials
- ExOne® cleaner, required for all automated and in-process maintenance routines, dissolves ExOne® binder

AVAILABLE KITS

Innovent™ Curing and Depowdering Accessory Kit (S4-30), Innovent™ Material Startup Kit (S4-30), Printhead Cleaning and Maintenance Starter Kit

All ExOne® material systems are designed and engineered for the ExOne® process and the ExOne® Innovent™ System. Each material system comprises ExOne's proprietary binder and specially prepared formulated materials to ensure the highest quality.

**We reserve the right to change or update the information on this datasheet at any time and without prior notice. Actual systems may differ from model shown.*