

A Complete, Affordable Solution for Lab Environments

Offering five times the print volume of prior lab models and designed for research and educational customers, the Innovent 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 (6.3 x 2.5 x 2.5 in.)
Build speed	30 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 (0.0025 / 0.0024/ 0.0039 in)
External dimensions	l x w x h 1203 x 887 x 1434 mm (47.4 x 35 x 56.5)
Weight	320 kg (700 lbs)
Electrical requirements	120V 1P 60Hz 1.8KW
Data interface	STL, CLI, SLC
Operator interface	Full HD (1920 x 1080) multi-touch display

CONSUMABLE MATERIALS

PM-R1-S4-30:	ExOne 420SS material for printing 0.10 mm layer thickness
PM-I-R1:	ExOne bronze material used for infiltrating stainless steel
PM-TSP-R116:	ExOne thermal support powder used during furnace cycle
PM-B-SR1-04:	ExOne binder, aqueous based ink for use with ExOne materials
PM-C-R1-02:	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 patented 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.*