With decades of manufacturing experience and significant investment in research and product development, ExOne has pioneered the evolution of nontraditional manufacturing. This investment has yielded a new generation of rapid production technology in the field of additive manufacturing as well as advanced micromachining processes. ExOne is the optimal partner for any industrial manufacturer who is transitioning their manufacturing business to the digital age.

**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**

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

**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 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.*