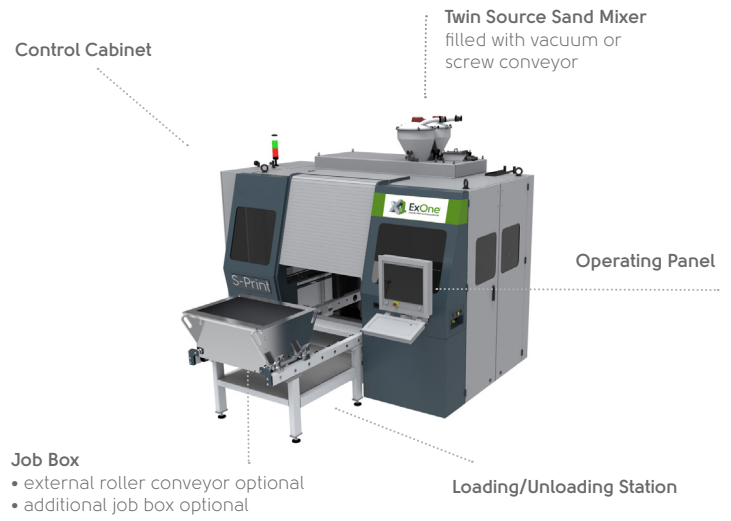


# S-Print™ Phenolic



## Improved Productivity and Flexibility in a Compact Design

The S-Print™ Phenolic, suited for sand casting foundries, creates complex sand cores and molds directly from CAD data, eliminating the need for a physical pattern to create a core or mold. Phenolic binder is the ideal solution for high temperature pouring. Due to the high heat strength of the core, very thin walls or narrow pipes can be easily printed.



### Key features

- Bending strength up to 1160.30 psi (800N/cm<sup>2</sup>)
- Produce thin walls, pipes and intricate shapes
- Easy curing with microwave technology

### Industry proven casting materials

No foundry changes required

### High productivity

- Flexible job box can print one prototype or short runs of multiple cores
- Changes can be made quickly
- On-demand sand supply management system
- High-speed printing and easy unloading
- Cores ready for immediate casting

### Varied casting applications

Suited for light metals, non-ferrous metals, cast iron and steel

### S-Print™ Phenolic consumables<sup>1</sup>

- ExOne® Phenolic Binder / Activator / Cleaner
- ExOne® Solvent Binder / Activator / Cleaner
- ExOne® Ceramic Beads (280, 380 µm)
- ExOne® Chromite
- ExOne® Zircon



## TECHNICAL SPECIFICATIONS

### Process cell including job box and roller conveyor

<b>Build volume</b>	l x w x h 31.5 x 19.7 x 15.8 in. (800 x 500 x 400 mm)
<b>Build speed</b>	0.57–1.27 ft <sup>3</sup> /h (16–36 L/h)
<b>Layer thickness</b>	0.009 in. (240 µm)
<b>Print resolution</b>	X/Y/Z 0.004 in. (100.0 µm)
<b>External dimensions</b>	l x w x h 128.7 x 100.0 x 112.6 in. (3270 x 2540 x 2860 mm)
<b>Weight</b>	7,717 lbs (3500 kg)
<b>Electrical requirements S-Print</b>	400V 3-Phase/N/PE / 50–60 Hz, max. 6.2 kW
<b>Electrical requirements heater</b>	400V 3-Phase/PE / 50–60 Hz, max. 6.3 kW
<b>Data interface</b>	STL

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<sup>1</sup> Other materials and particle sizes available – please contact your sales rep.