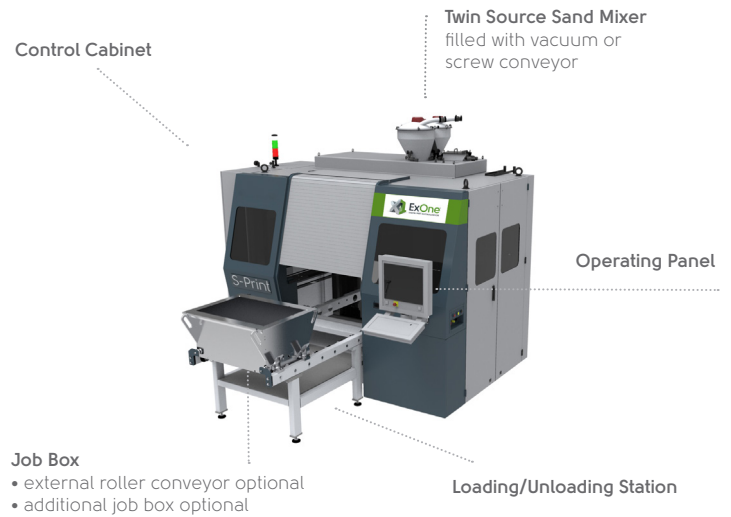


# S-Print™ Silicate



## Improved Productivity and Flexibility in a Compact Design

The S-Print™ Silicate, suited for sand casting foundries, creates accurate and complex sand cores and molds directly from CAD data, eliminating the need of a physical pattern to create a core or mold. This system uses an innovative environmentally-friendly binder based on silicate resulting in low gas emissions during the casting process.



### Key features

- Low gas emissions
- Easy curing with microwave technology
- High flexural bending strength
- Produce intricate cores
- Economical

### 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
- High-speed printing
- Easy unloading

### Varied casting applications

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

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

- ExOne® Silicate Binder / Activator / Cleaner
- ExOne® Silica Sand (280, 380 μm)
- ExOne® Ceramic Beads, 380 μm



### TECHNICAL SPECIFICATIONS

#### Process cell including job box and roller conveyor

<b>Build volume</b>	l x w x h 31.5 x 19.68 x 15.75 in. (800 x 500 x 400 mm)
<b>Build speed</b>	0.57–0.64 ft <sup>3</sup> /h (16–18 L/h)
<b>Layer thickness</b>	0.011–0.013 in. (280–340 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.

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