

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

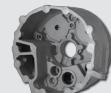
- Flexible job box can print one prototype or short runs of multiple cores
- Changes can be made quickly
- On-demand sand supply management
- High-speed printing
- Easy unloading

Varied casting applications

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

S-Print™ Silicate consumables¹

- 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

Build volume	l x w x h 31.5 x 19.68 x 15.75 in. (800 x 500 x 400 mm)
Build speed	0.57–0.64 ft ³ /h (16–18 L/h)
Layer thickness	0.011–0.013 in. (280–340 µm)
Print resolution	X/Y/Z 0.004 in. (100.0 µm)
External dimensions	l x w x h 128.7 x 100.0 x 112.6 in. (3270 x 2540 x 2860 mm)
Weight	7,717 lbs (3500 kg)
Electrical requirements S-Print	400V 3-Phase/N/PE / 50–60 Hz, max. 6.2 kW
Electrical requirements heater	400V 3-Phase/PE / 50–60 Hz, max. 6.3 kW
Data interface	STL

PROPRIETARY INFORMATION

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¹ Other materials and particle sizes available – please contact your sales rep.