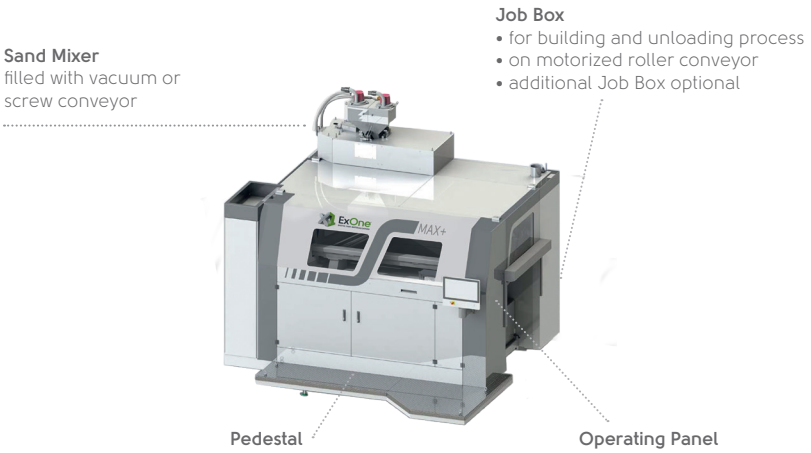
S-Max+™ Phenolic

The Solution for Large and Robust but Delicate Sand Cores

The S-Max+™ prints very large, complex sand cores and molds and is designd to be used in conjunction with an industrial microwave. Phenolic cores are suited for high-temperature casting and enable challenging casting applications, such as extremely thin walls and channels.



Flexible batch production
- Each part can be different (i.e., serial numbers)
- Changes can be made quickly
- Small production lots
- No tools and storage necessary

High productivity
- Large Job Box
- High-speed printing
- Easy unloading
- Cores ready for immediate casting

Varied casting applications

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

S-Max+™ consumables[1]
- ExOne® Phenolic Binder / Activator / Cleaner
- ExOne® Ceramic Beads
- ExOne® Chromite
- ExOne® Zircon

TECHNICAL SPECIFICATIONS

Process cell including job box and roller conveyor	
Build volume	l x w x h 70.9 x 39.4 x 23.6 in. (1800 x 1000 x 600 mm)
Build speed	2.12–3.00 ft³/h (60–85 L/h)
Layer thickness	0.011–0.020 in. (280–500 µm)
Print resolution	X/Y/Z 0.004 in. (100.0 µm)
External dimensions including one job box, right - standard	l x w x h 152.9 x 136.6 x 113.8 in. (3860 x 3470 x 2890 mm)
Weight	12,787 lbs (5800 kg)
Electrical requirements S-Max	400V 3-Phase/N/PE / 50–60 Hz, max. 6.2 kW
Electrical requirements heater	400V 3-Phase/PE / 50–60 Hz, max. 19.2kW
Data interface	XPrep

PROPRIETARY INFORMATION

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

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. ExOne is the optimal partner for any industrial manufacturer who is transitioning their manufacturing business to the digital age.

rev. 11/18/15 US