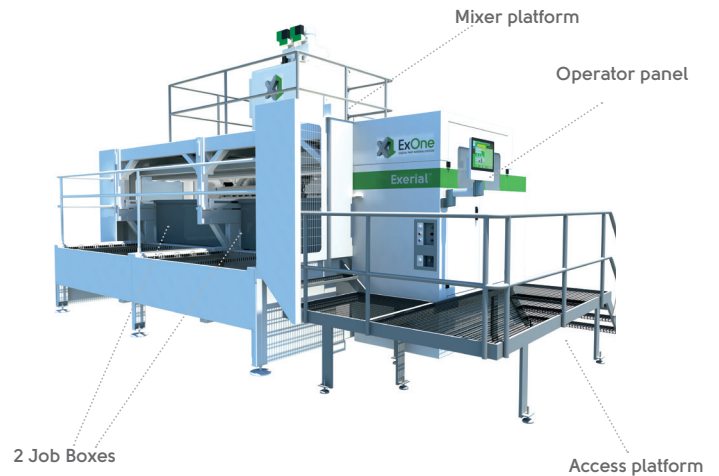


The Flagship for Industrial Series Production

Series production of complex sand cores and molds is now possible with the Exerial™ 3D printer, containing two job boxes and a printing volume of 130.5 ft³ (3,696 L). Multiple Exerial™ printers can be linked together, forming a networked assembly system. This high degree of automation makes the Exerial™ printer ideal for mass production.



High productivity

- 2 job boxes for producing large cores in series
- Simultaneous production of multiple jobs
- Extremely fast printing of components with 3 to 4 times the speed of the S-Max™ printer
- New generation of coating and printing technology
- Option for automated transport system

High precision

Precision printing process creates highly accurate cores [compliance with tolerances down to ± 0.012 in. ($\pm 300 \mu\text{m}$)]

Suitable for complex geometries

More flexible design options

Varied mold applications

Suitable for light metals, cast iron and steel, also non-ferrous metals

Exerial™ Furan consumables¹

- ExOne® Furan Binder / Activator / Cleaner
- ExOne® Silica Sand, 280 μm
- ExOne® Ceramic Beads, 380 μm



TECHNICAL SPECIFICATIONS

Process cell including two job boxes

Build volume (useable) W x D x H: 86.6 x 47.2 x 27.6 in. x 2
(2200 x 1200 x 700 mm x 2)

Build speed 10.6–14.1 ft³/h (300–400 L/h)
depending on sand grade

Layer thickness 0.011 in–0.0197 in. (280–500 μm)

Print resolution X/Y/Z 0.004 in (100.0 μm)

External dimensions W x D x H: 329.9 x 158.7 x 194.9 in.
(8380 x 4030 x 4950 mm)

Weight 24,692 lb (11200 kg)

Printer power supply 400V 3-phase/N/PE/50–60 Hz, max. 21.5 kW

Heater power supply 400V 3-phase/N/PE/50–60 Hz, max. 12.6 kW

Data interface XPrep

PROPRIETARY INFORMATION

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Materials processed on machines other than by ExOne and/or with different processes and/or technology may differ as to their properties. ExOne® research and development efforts are ongoing and ExOne reserves the right to revise the information at any time without notice. ExOne does not provide any warranties or other obligations hereby, and will only provide such warranties or other obligations, if any, either in a definitive purchase contract executed by ExOne or in its standard terms and conditions of sale contained in an order acknowledgement.

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