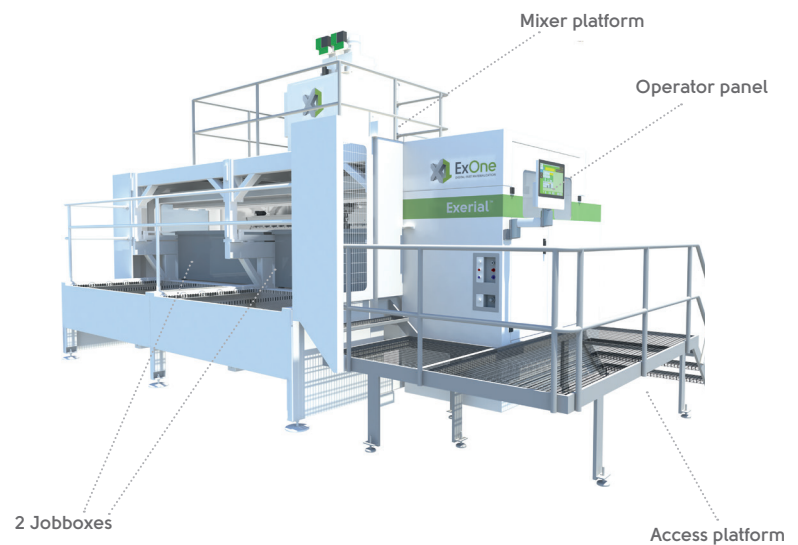


The flagship for industrial series production

Industrial series production of complex sand cores and molds straight from CAD files is now made possible using the Exerial® 3D printer with two job boxes and a printing volume of 3,696 litres. Several Exerial® printers can be linked together to form an assembly system for networked large series production. This high degree of automation makes the Exerial® printer ideal for mass production.



High productivity

- Two Jobboxes for producing large cores in series
- Simultaneous production of several 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

- High-precision printing process creates high-precision cores (compliance with tolerances down to +/- 0.3 mm)

Suitable for complex geometries

- More flexible design options
- Produces complex cores

Different mold applications

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



TECHNICAL FEATURES

Process cell including job box and roller conveyor

Build size (useable)	W x D x H: 2200 x 1200 x 700 mm x 2
Build speed	300 to 400 L/h (depending on sand grade)
Layer thickness	0.38 mm to 0.50 mm
Print resolution	X/Y 0.1 mm/0.1 mm
External dimensions	W x D x H: 8380 x 4030 x 4950 mm
Weight	12000 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

CONSUMABLES

- FS001:** ExOne® quartz molding sand for layer thickness of 0.28 mm
- FS003:** ExOne® quartz molding sand for cores with greater gas permeability and a thicker layer of 0.38mm
- FS005:** ExOne® quartz molding sand for layer thickness of 0.50 mm
- FA001:** ExOne® activator: suitable for specifications of FB001
- FB001:** ExOne® binding agent based on furan: for low gas emission
- FC005:** ExOne® rinsing and cleaning solution: used in the automated cleaning process, dissolves FB001
- MI001:** Magnesium inhibitor: added via optional Mg dosing unit to the mould sand; prevents oxidation during the pour

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