

S-MAX Pro™

Excellent choice for both prototyping and industrial serial production that can process all ExOne binders.



The S-MAX Pro™ impresses with its speed, reliability and precision. It is available as a stand-alone solution but is also scalable and can be connected by a network, that creates a fully automated production line, to realize the industrial serial production in 3D sand printing.

TECHNICAL SPECIFICATIONS

External Dimensions	10400 x 3520 x 2860 mm (409.5 x 138.6 x 112.6 in.)
Build Dimensions	1800 x 1000 x 700 mm (70.9 x 39.4 x 27.6 in.)
Layer Thickness	0.26 - 0.38 mm (0.01 - 0.015 in.)
Min. Grain Size	140 µm
Weight	8600 kg (18960 lbs)
Electrical Requirements	400 V AC (±10%) 3ph/PE/N

Binder Systems	Furan	CHP	HHP	Inorganic
Build Speed	18 (sec./layer)	22 (sec./layer)	30 (sec./layer)	30 (sec./layer)
Printing Time (FS001 / FS003)	13 h / 9 h	15 h / 11 h	14 h* **	12 h / 9 h**
Exhaust Air	300 m ³ /h	600 m ³ /h	600 m ³ /h	600 m ³ /h

* with Cerabead Sand with 0.26 mm layer thickness ** with Box-in-Box system (H: 400 mm)

SYSTEM BENEFITS

- Fully automated printhead can process all ExOne binder systems (Furan, CHP, HHP, Inorganic)
- Automated adjustment of recoater to different molding materials
- Optional Box-in-Box system enables easy and fast removal of the job immediately after printing
- Industry 4.0 integration and cloud connectivity
- Real time process control and increased fault detection capability via camera and app
- Recipe Manager

SYSTEM OPTIONS

- With second jobbox and roller conveyor available
- With desanding station available (for standard jobbox)
- With Box-in-Box system available

BOX-IN-BOX SYSTEM

- Build Volume: 1800 x 1000 x 400 mm (70.9 x 39.4 x 15.7 in.)
- Weight: 1200 kg (2645 lbs) without sand; 2500 kg (5511 lbs) with sand
- With transport shuttle to move the box into the machine
- With transfer station for easily picking up the box
- Box with different designs available:
 - With desanding and ceramic plates for optimized post processing (especially for Inorganic/Hot Hardening Phenol)
 - With heating plates for optimized process (especially for Furan/Cold Hardening Phenol)