PERFORMANCE METAL POWDER-BED FUSION 3D PRINTING

XM200S

XACT METAL

THE XM200S IS A HIGH-PERFORMANCE METAL POWDER-BED FUSION PRINTER AT AN ACCESSIBLE PRICE

By taking the essential additive manufacturing specs for metal powder-bed fusion (commonly known as Selective Laser Melting or Direct Metal Laser Sintering) and combining them with cutting-edge technology, the XM200S is able to offer uncompromising quality for users.

The XM200S makes quality metal powder-bed fusion 3D printing available to customers in high-performing applications like aerospace, medical and other applications where print speed is critical.

Metal powder-bed fusion provides high-quality and complex parts. It reduces total cycle time by about 50% and removes the need for wash/debinder and sintering/oven equipment used in bound metal deposition, atomic deposition additive manufacturing or other FDM-like metal 3D printers.

XM200S SPECIFICATIONS

- Large cubic build volume allows you to print multiple parts more efficiently and quickly.
- 200W Yb fiber laser provides optimal power density and prints 20-100 µm layers with a spot size greater than 50 microns, providing precision to your build.
- Precision high-speed scanner has minimal drift and warm-up time.
- Patent-pending recoater uses a unique “bulb” shape recoating element that spreads powder like a blade yet provides compaction similar to a rolling element. The recoater’s compliant design allows it to negotiate out-of-plane growth.
- Build chamber is easy to set up and simple to clean and maintain.
- Easy user access to filters, particle collection and overflow container.
- Inert swap housing provides quick and safe filter changeovers.
- Small footprint makes it easier to include additive manufacturing in your factory, lab or facility.
- Modern software architecture offers a streamlined, intuitive and functional platform that supports visual workflows and remote monitoring.
- Open platform provides qualified users the ability to develop their own printing parameters and use their own powder.

TECHNICAL DATA

Build Volume	125 in³ (5 x 5 x 5 in) 2,048 cc (127 x 127 x 127 mm)
Exterior Dimensions	Approx. 37 x 24 x 67.5 in³ - W x D x H (940 x 610 x 1,715 mm³)
Laser Type*	200W Yb fiber laser
Precision Optics	Spot size greater than 50 microns
Scanner	• High-performance galvanometer scanner • Scan speed up to 8 m/s
Electrical	• Power Supply 200-240 VAC Single Phase, 50/60 Hz • Consumption 2.9 kW
User Interface	15” intuitive user-friendly touch screen
Weight	Approximately 600 lbs (272 kgs)
Powder Options**	• Aluminum Si10Mg • Bronze, Copper C18150 • Stainless Steel: 316L, 17-4 PH, 15-5, 400 Series • Super Alloys: 718, 625, Cobalt Chrome F75, Hastelloy® X • Titanium Ti64 • Tooling Steels: Maraging M300

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*Class 1 Laser Product, **Availability of parameters available on request