ACCESSIBLE METAL POWDER-BED FUSION 3D PRINTING

XM200C

XACT METAL

THE XM200C IS A 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 breakthrough technology, the XM200C is able to offer uncompromising quality for users.

The XM200C makes quality metal powder-bed fusion 3D printing available to universities, labs and small-to-medium businesses that need prototyping and tooling capabilities or are looking for alternatives to low-volume castings.

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.

XM200C SPECIFICATIONS

- Large cubic build volume allows you to print multiple parts more efficiently and quickly.
- Patent-pending Xact Core™ high-speed scanner fuses at speeds up to 650 mm/sec. The beam is constantly orthogonal across the entire powder bed surface, which produces consistent fusing properties throughout the complete build area.
- 100W Yb fiber laser provides optimal power density and prints 20-100 µm layers with a spot size greater than 20 microns, providing precision to your build.
- 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, quick to purge and simple to clean and maintain.
- Small printer 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 in^3 (5 x 5 x 5 in) 2,048 cc (127 x 127 x 127 mm)
Exterior Dimensions	Approx. 24 x 24 x 51 in^3 - W x D x H (610 x 610 x 1,295 mm^3)
Laser Type*	• 100W Yb fiber laser • 200W available with optional kit
Precision Optics	Spot size greater than 20 microns
Scanner	• Fusing speed up to 650 mm/sec • Orthogonal high-speed scanner
Electrical	• Power Supply 100-120/200-240 VAC Single Phase, 50/60 Hz • 1.5 kW, 2.0 kW Peak
User Interface	7” intuitive user-friendly touch screen
Weight	Approximately 450 lbs (205 kgs)
Powder Options**	• Stainless Steel: 316L, 17-4 PH, 15-5, 400 Series • Super Alloys: 718, 625, Cobalt Chrome F75, Hastelloy® X • Tooling Steels: Maraging M300 • Bronze, Copper C18150 • Aluminum Si10Mg and Titanium Ti64 available with optional kit

Contact us at +1 (814) 205-1505 or info@xactmetal.com to learn more.

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