

# PERFORMANCE METAL POWDER-BED FUSION 3D PRINTING

**XM200S**

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**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

<b>Build Volume</b>	125 in <sup>3</sup> (5 x 5 x 5 in) 2,048 cc (127 x 127 x 127 mm)
<b>Exterior Dimensions</b>	Approx. 37 x 24 x 67.5 in <sup>3</sup> - W x D x H (940 x 610 x 1,715 mm <sup>3</sup> )
<b>Laser Type*</b>	200W Yb fiber laser
<b>Precision Optics</b>	Spot size greater than 50 microns
<b>Scanner</b>	<ul style="list-style-type: none"> <li>• High-performance galvanometer scanner</li> <li>• Scan speed up to 8 m/s</li> </ul>
<b>Electrical</b>	<ul style="list-style-type: none"> <li>• Power Supply 200-240 VAC Single Phase, 50/60 Hz</li> <li>• Consumption 2.9 kW</li> </ul>
<b>User Interface</b>	15" intuitive user-friendly touch screen
<b>Weight</b>	Approximately 600 lbs (272 kgs)
<b>Powder Options**</b>	<ul style="list-style-type: none"> <li>• Aluminum Si10Mg</li> <li>• Bronze</li> <li>• Stainless Steel: 316L, 17-4 PH, 15-5, 400 Series</li> <li>• Super Alloys: 718, 625, Cobalt Chrome F75, Hastelloy® X</li> <li>• Titanium Ti64</li> <li>• Tooling Steels: Maraging M300</li> </ul>



3D PRINTING AND DIGITAL MANUFACTURING

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