



ACS Material Equipment Series

Quad-Laser Large-Field Efficient Powder Bed Laser Melting Printer

Model: XDM 500

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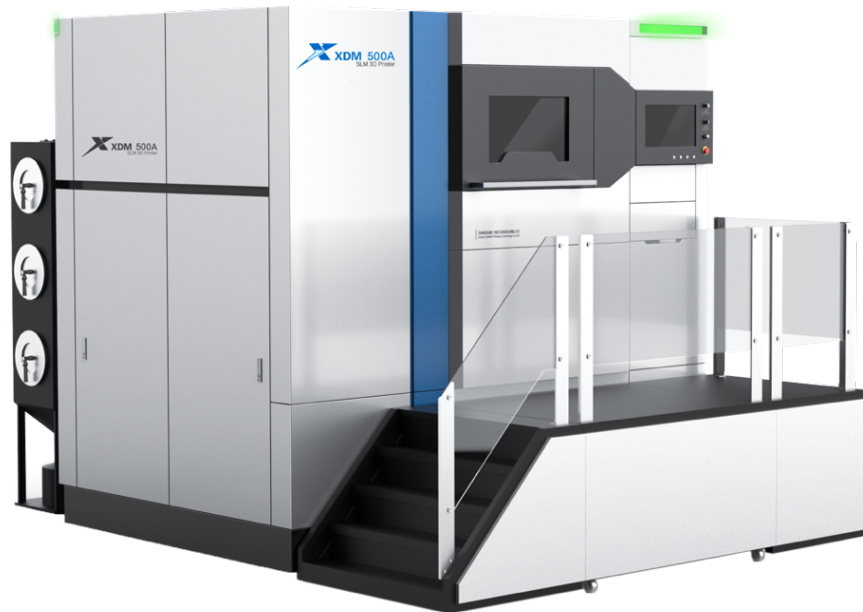
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Revision: 122122

Product Overview

XDM 500 is a high efficiency large size printer in the XDM range. The printer is designed for customers requiring high reliability, high efficiency, large size printing. The standard configuration is 4 lasers, but customers who need increased efficiency can choose more. With large printing size, high efficiency, and low running cost, the printer is extremely suitable for high efficiency batch production in aerospace, automotive, molding, as well as 3D printing services.



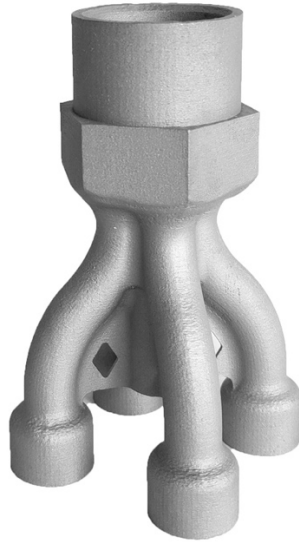
Product Features

- 4 or more laser, increased efficiency, low production cost.
- Bidirectional coating enables high operational efficiency, essential for larger printers.
- External collector for excess powder that becomes new feed stock, which allows for uninterrupted production.
- Stable and reliable for long operation.
- Large working envelope, increased production capability.
- Optimized airflow, stable production quality.
- Multi-laser scanning system, high production efficiency.
- Smart control software, with process parameters fully open and editable.
- Customizable scan path, enabling the forming process to be easy to modify and optimize.
- Intelligent process monitoring, automated production with full data output for analysis.
- High performance components increase reliability.

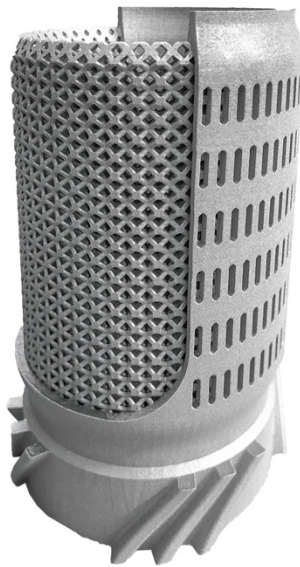
Product Specifications

Product Name	XDM 500 Powder Bed Laser Melting 3D Metal Printer
SKU #	EPXDM500
Model #	XDM 500
Building Volume (W x D x H)	500mm x 500mm x 500mm (19 inch x 19 inch x 19 inch)
Laser System	Yb Fibre Laser (IPG), Quad (4 x 500W)
Min. Focus Diameter	approx. 85µm
Optic System	F-theta lens, high-speed and high-precision scanners
Build Rate	up to 120cm ³ /h
Layer Thickness	20µm - 100µm
Filter System	Flow rate up to 990m ³ /h
Power Supply	AC 380V/50Hz, 32kVA
Unit Dimensions W x D x H	5150mm × 3865mm × 3785mm (203 inch x 153 inch x 150 inch)
Weight	approx. 12000kg (approx. 26456lbs)
Software	XDM IntelliSlice, XDM IntelliProc [®] , XDM IntelliMake [®] , XDM STATE
Materials [*]	Tool steel, Stainless steel, High-temperature alloys, Titanium alloy, Cobalt-chromium alloy, Aluminum alloy

^{*} Please consult with sales for available materials and datasheet



Sample of 3D-Printed Multi-Way Joint



Sample of 3D-Printed Downhole Tool

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