



ACS Material Equipment Series

Smart Efficient Large Powder Bed Laser Melting Printer

Model: XDM 420

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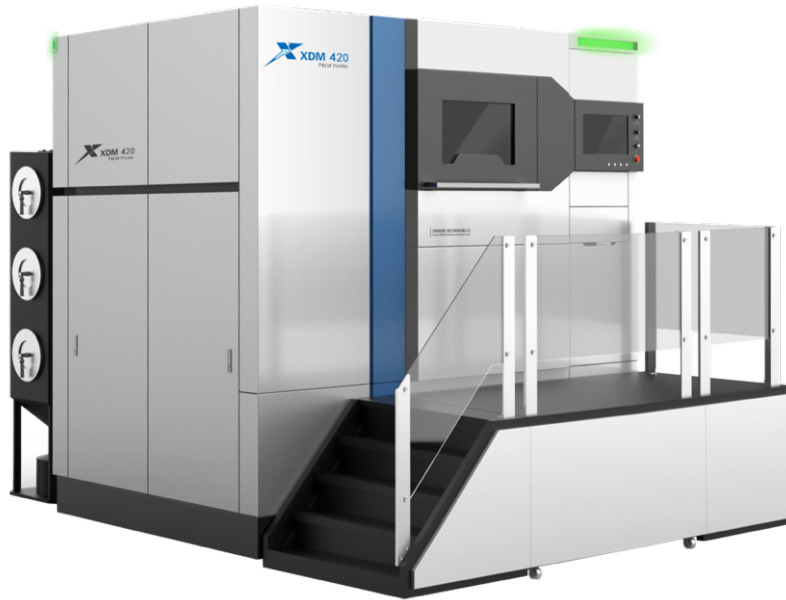
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Revision: 122122

Product Overview

XDM 420 is a medium size printer in the XDM range. The printer is designed for customers requiring high reliability medium size printing. The standard configuration is single laser, but customers can choose to have multi-laser configurations up to 4 lasers. The printer is suitable for medium size part production of aerospace, automotive products.



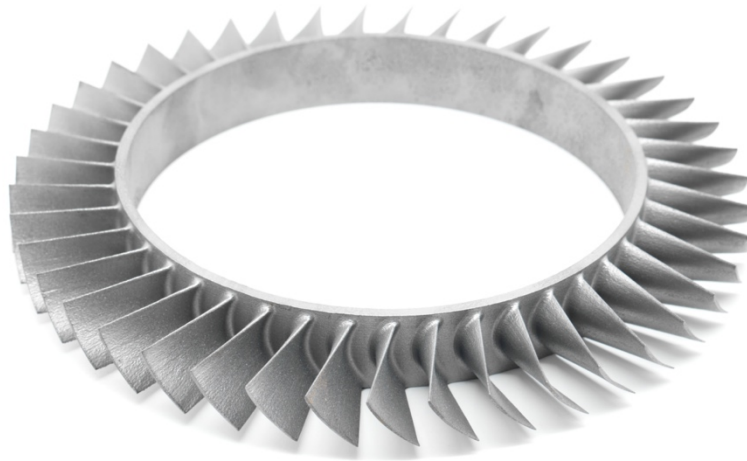
Product Features

- Good balance between size and cost.
- Shared platform with XDM 750, structure mature.
- External collector for excess powder that becomes new feed stock, which allows for uninterrupted production.
- Bidirectional coating enables high operational efficiency, essential for larger printers.
- Large working envelope, increased production capability.
- Optimized airflow, stable production quality.
- Optional multiple lasers, higher 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 420 Powder Bed Laser Melting 3D Metal Printer
SKU #	EPXDM420
Model #	XDM 420
Building Volume (W x D x H)	420mm x 420mm x 500mm (16 inch x 16 inch x 19 inch)
Laser System	Yb Fibre Laser (IPG), 500W
Min. Focus Diameter	approx. 85µm
Optic System	F-theta lens, high-speed and high-precision scanners
Build Rate	up to 32cm ³ /h
Layer Thickness	20µm - 100µm
Filter System	Flow rate up to 990m ³ /h
Power Supply	AC 380V/50Hz, 25kVA
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 Impeller



Sample of 3D-Printed Combustor

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