ACS Material Equipment Series

Smart Efficient Small Powder Bed Laser Melting Printer

Model: XDM 120

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Revision: 122222

Product Overview

XDM 120 is the smallest of XDM range of 3D metal printers. The printer was developed with multiple innovations including a dual cartridge powder supply system, a bidirectional recoating system, and an integrated building chamber. Being extremely easy to load and clean powder, high accuracy, high efficiency, low running cost, the printer is very suitable for university and research Institute, as well as for electronics, precision machines, and high-end dental applications.
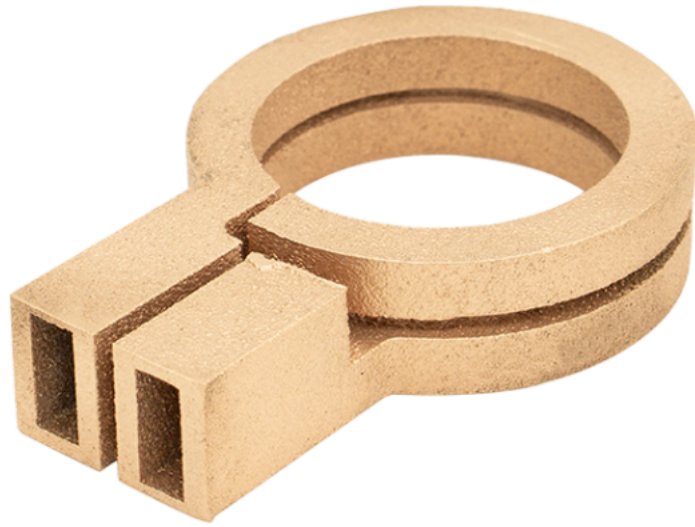

Product Features

- Modular removable powder cartridges, very easy to load and unload powder.
- Bidirectional coating enables high operational efficiency, essential for this printer.
- The building chamber is integrated within the frame, which ensures high accuracy and allows for high pressure, leak-free operation.
- High scan resolution, giving fine forming features.
- Smart control software, with process parameters fully open and editable.
- Customizable scan path, enabling the forming process to be easy to modify and optimize.
- Patented filter system, lowering maintenance frequency.
- Full-format baseplate, 100% utilization of building envelope.
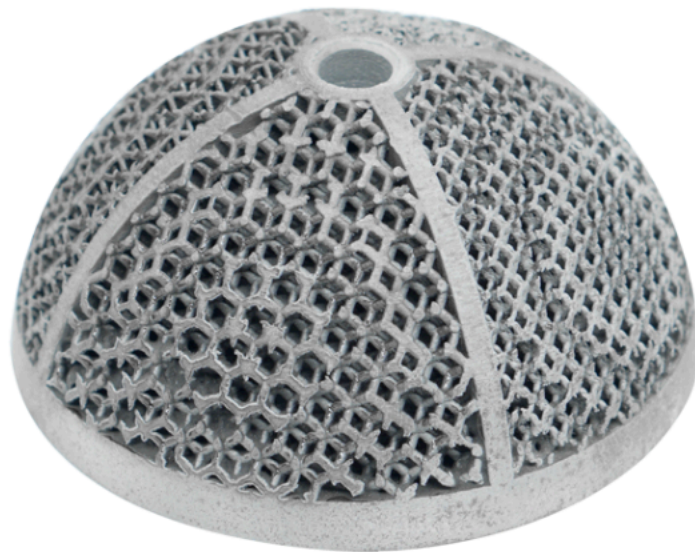- Low gas consumption, giving low running cost.

Product Specifications

Product Name	XDM 120 Powder Bed Laser Melting 3D Metal Printer
SKU #	EPXDM120
Model #	XDM 120
Building Volume (W x D x H)	120mm x 120mm x 100mm (4 inch x 4 inch x 3 inch)
Laser System	Yb Fibre Laser (IPG), 500W
Min. Focus Diameter	Approx.. 55μm
Optic System	F-theta lens, high-speed and high-precision scanners
Dispensor and Recoater	Upper dispenser, two-way recoater
Layer Thickness	20μm - 100μm
Power Supply	AC 220V/50Hz, 3.42kVA
Unit Dimensions W x D x H	850mm x 1115mm x 2135mm (34 inch x 44 inch x 85 inch)
Weight	approx. 800kg (approx. 1764lbs)
Software	XDM IntelliSlice, XDM IntelliProc®, XDM IntelliMake®, XDM STATE
Materials ※	Tool steel, Stainless steel, Cobalt-chromium alloy, Titanium alloy, Aluminum alloy

※ Please consult with sales for available materials and datasheet

Sample of 3D-Printed Induction Coil

Sample of 3D-Printed Medical Implant

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