NEW: DMP Flex 200

Professional and precise-now with 500W laser source

Metal 3D printer for finest features and thinnest walls. Outstanding accuracy, repeatability and the industry's best surface finish, now with enlarged build platform, suitable for fast dental application cycles for production of next day RPDs, crowns, bridges and implant bars.



The new DMP Flex 200 is designed for professional 3D printed metal manufacturing of small, complex fine detail metal parts at high quality using Direct Metal Printing (DMP). The DMP Flex 200 features a larger build volume 140 x 140 x 115 mm ($5.51 \times 5.51 \times 4.53$ in) with a new build plate clamping mechanism eliminating screw management inside the process chamber. Unloading build plates has never been easier! The DMP Flex 200 has a vacuum cleaner pass-through to the process chamber which remains sealed under inert conditions. All surfaces are cleaned without powder contact. Build plates and powder containers are passed in and out of the process chamber via an airlock avoiding exposure to powder and limiting O₂ entering the process chamber.

High performance at lower cost



With the build volume and 500W laser source, this metal 3D printer leads to reduced cost per part and faster delivery times. Its ability to print with less supports with visibly better surface finish, results in less post processing and less material usage.

Dental materials for broader applications



3D Systems offers LaserForm® CoCr and LaserForm Ti Gr23 with extensively developed, tested and high-confidence LaserForm parameter databases suitable for a broad range of dental applications.

Streamline your workflow



3DXpert Dental software automates part orientation, support generation, labeling and nesting. Prepare quality parts in record time. Gain unprecedented control over the entire workflow, from design to manufacturing.

Build time

LT30 RPDs with contour 6:19 hrs/min - 10 units | LT30 Crowns & Bridges with contour 6:28 hrs/min - 204 units LT30 Crowns & Bridges without contour 5:49 hrs/min - 204 units | LT40 Crowns & Bridges without contour 04:24 hrs/min - 204 units





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DMP Dental

Specifications

Easy-to-use professional dental metal printers for exceptional quality



DMP Flex 100

DMP Flex 200

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Laser Power Type	100 W/Fiber laser	500 W/Fiber laser	
Laser Wavelength	1070 nm	1070 nm	
Build Volume (X x Y x Z) Height inclusive of build plate	100 x 100 x 90 mm (3.94 x 3.94 x 3.54 in)	140 x 140 x 115 mm (5.51 x 5.51 x 4.53 in)	
Layer Thickness	10 μm - 100 μm	10 μm - 120 μm	
LaserForm [®] metal alloy choices with developed print parameters:	LaserForm CoCr (B) (C) LaserForm 17-4PH (B) LaserForm 316L (B)	LaserForm CoCr (B) LaserForm Ti Gr5 (A) LaserForm Ti Gr23 (A)	
Material Deposition	Roller	Roller	
Repeatability	x=20 µm, y=20 µm, z=20 µm	x=20 μm, y=20 μm, z=20 μm	
Minimum Feature Size	x=100 μm, y=100 μm, z=10 μm	x=100 μm, y=100 μm, z=10 μm	
Typical Accuracy	\pm 0.1-0.2% with \pm 50 μm minimum	\pm 0.1-0.2% with \pm 50 μm minimum	
Space requirements			
Dimensions, uncrated (W x D x H) 4	1210 x 1720 x 2100 mm (48 x 68 x 83 in)	1210 x 1720 x 2100 mm (48 x 68 x 83 in) + Chiller 377 x 521 x 650 mm (14.8 x 20.5 x 25.6 in)	
Weight, uncrated	1300 kg (2870 lbs)	1400 kg (3086 lbs)	
Facility requirements			
Electrical Requirements	230 V / 2.7 KVA / single phase	230 V / 4.5 KVA / single phase + chiller 1.2 KVA / single phase	
Compressed Air Requirements	6-8 bar	6-8 bar	
Gas Requirements	Nitrogen or Argon, 6-8 bar	Nitrogen or Argon, 6-8 bar	
Water Cooling	Not required, air cooling included	Chiller supplied with printer	
Quality control			
DMP Monitoring	na	na	
Control system and software			
Software Tools	3DXpert [®] all-in-one software solution for metal additive manufacturing	3DXpert [®] all-in-one software solution for metal additive manufacturing	
Control Software	PX Control V3	PX Control V3	
Operating System	Windows 10	Windows 10	
Input Data File Formats	All CAD formats, e.g. IGES, STEP, STL, native read formats incl PMI data, all Mesh format	All CAD formats, e.g. IGES, STEP, STL, native read formats incl PMI data, all Mesh format	
Network Type and Protocol	Ethernet 1 Gbps, RJ-45 Plug	Ethernet 1 Gbps, RJ-45 Plug	
Powder management			
Powder Management	Optional external	Optional external	
Powder Loading	Manual	Manual	
Certification	CE	CE	

NOTE Not all products and materials are available in all countries - please consult your local sales representative for availability.

Warranty/Disclaimer The performance characteristics of these products may vary according to product application, operating conditions, material combined with, or with end use. 3D Systems makes no warranties of any type, express or implied, including, but not limited to, the warranties of merchantability or fitness for a particular use.

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