

DMP Flex 200

Professional and precise
using 500 W laser source

Trusted Metal 3D Printing Technology for Precision Dental and Industrial Applications

BUILD TIME

LT30 RPDs with contour	6:36 hrs/min 22 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

The **DMP Flex 200** is a proven, production-ready metal 3D printer built for consistent, high-quality manufacturing of small, detailed metal parts

With outstanding accuracy, repeatability, and the industry's best surface finish, it's a trusted solution for fast dental application cycles - including next-day RPDs, crowns, bridges, and implant bars.

The expanded build volume (140 x 140 x 100 mm / 5.51 x 5.51 x 3.94 in) supports increased throughput while maintaining fine feature resolution and thin wall capabilities.



Lower Maintenance, Lower Costs - Without Compromising Quality



Scan to learn more

Built on reliable Direct Metal Printing (DMP) technology, the **DMP Flex 200** features a patented roller recoating system that eliminates the need for blades and frequent consumable changes - cutting both downtime and ongoing costs.

Combined with a sealed airlock powder handling system, users maintain inert chamber conditions without losing costly inert gas between builds.

This streamlined approach protects part integrity, improves operator safety, and significantly lowers the cost per part compared to other systems.

With intuitive features like a screw-free build plate clamping mechanism and vacuum pass-through cleaning, the **DMP Flex 200** is engineered for performance, safety, and efficiency.



DMP Flex 200 Specifications



Laser Power Type	500 W/Fiber laser
Laser Wavelength	1070 nm
Build Volume (X x Y x Z) Height inclusive of build plate	140 x 140 x 100 mm (5.51 x 5.51 x 3.94 in)
Layer Thickness	30 µm; Alt. 40 µm
LaserForm® metal alloy choices with developed print parameters:	LaserForm CoCr (B) LaserForm Ti Gr23 (A) LaserForm 316L (B)
Material Deposition	Roller
Repeatability	x=20 µm, y=20 µm, z=20 µm
Minimum Feature Size	x=100 µm, y=100 µm, z=10 µm
Typical Accuracy	± 0.1-0.2% with ± 50 µm minimum
Repeatability	500 W/Fiber laser
Laser Spot Diameter	60 - 70 µm
Space Requirements	
Dimensions	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	1400 kg (3086 lbs)
Facility Requirements	
Electrical Requirements	230 V / 4.5 KVA / single phase + chiller 1.2 KVA / single phase
Compressed Air Requirement	6-8 bar
Gas Requirements	Nitrogen or Argon, 6-8 bar
Water Cooling	Chiller supplied with printer
Quality Control	
DMP Monitoring	NA
Control System and Software	
Software Tools	3DXpert® all-in-one software solution for metal additive manufacturing Oqcam Dental Lab Software to automate digital production workflows.
Control Software	PX Control V3
Operating System	Windows 10
Input Data File Formats	All CAD formats, e.g., IGES, STEP, STL, native read formats incl. PMI data, all Mesh formats
Network Type and Protocol	Ethernet 1 Gbps, RJ-45 Plug
Powder Management	
Power Management	Optional external
Powder Loading	Manual
Certification	CE



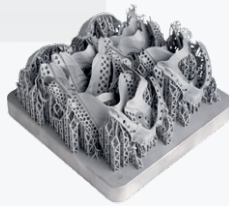
High Performance, Low Cost



Large build volume and 500 W laser source lead to reduced cost per part and fast delivery times.

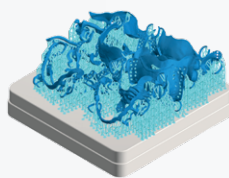
DMP Flex 200's ability to print with minimal supports and visibly better surface finish results in less post-processing and less material usage.

Brand Range of Applications



3D Systems offers LaserForm® CoCr, LaserForm Ti Gr23, and LaserForm 316L (B) with extensively developed, tested and high-confidence LaserForm parameter databases suitable for a broad range of dental applications, including orthodontic appliances.

Streamline your Workflow



3DXpert Dental software by Oqcam 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.

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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