

Accelerate production. Lower costs.

DMP Flex 350 Dual and DMP Factory 350 Dual



Reduce additive manufacturing build times by up to 50% with new two-laser direct metal printing platforms.

Discover the benefits of new two-laser 3D printers that deliver the same high-quality orthopaedic devices faster and more cost-effectively than single-laser systems. The DMP Flex 350 Dual and DMP Factory 350 Dual feature our signature vacuum chamber with industry-leading O₂-handling and an intuitive user interface with guided print cycles. The DMP Factory 350 Dual also offers integrated powder management.



Interbody spine cages and acetabular hip cups 3D printed with complex lattice structures to promote osteoconductivity.

The dual-configuration platforms help you:

- Produce monolithic, conformal lattice structures that increase bone in-growth and eliminate the need for post-process surface treatments
- Print different sizes on the same build plate with design freedom to fit a broader range of patients with limited or no tooling costs
- Create patient-specific designs and devices
- Print implants and instrumentation in Ti64, CoCr or 316L metals

When combined with our advanced 3D file preparation software, these printers maximize throughput to produce high-quality medical devices more efficiently than ever before.



Platform highlights

INTEGRATED METAL PRINTING

DMP printers, 3DXpert software and materials are fine-tuned for process reliability and repeatability.

STRONGER MECHANICAL PROPERTIES

Industry's lowest O₂ content during builds (<25 ppm) for exceptionally strong parts of high chemical purity.

EXTENSIVELY TESTED MATERIALS

Thousands of hours of parameter optimization ensure predictable and repeatable print quality with a broad range of materials.



DMP Flex 350 Dual produces high-surface quality medical devices printed in LaserForm TiGr23 up to two times faster.

Productivity factor

In a comparison of the DMP Flex 350 Dual with the single laser platform, build times were significantly reduced for several sample applications. In fact, the hip cups and spine cages printed in one-third of the time when printed at a layer thickness of 90 microns.

Build Time & Cost Reduction of Sample Devices at LT60 and LT90 (compared with the single laser platform)

Application	Build time reduction		Additive manufacturing cost reduction	
	LT60	LT90	LT60	LT90
Acetabular cup	45%	65%	16%	23%
Knee tibial tray	36%	56%	15%	23%
Lateral spine cages	42%	66%	10%	17%

Want to know more about these printers built for speed and performance?

Start a conversation: 3dsystems.com/medical-devices