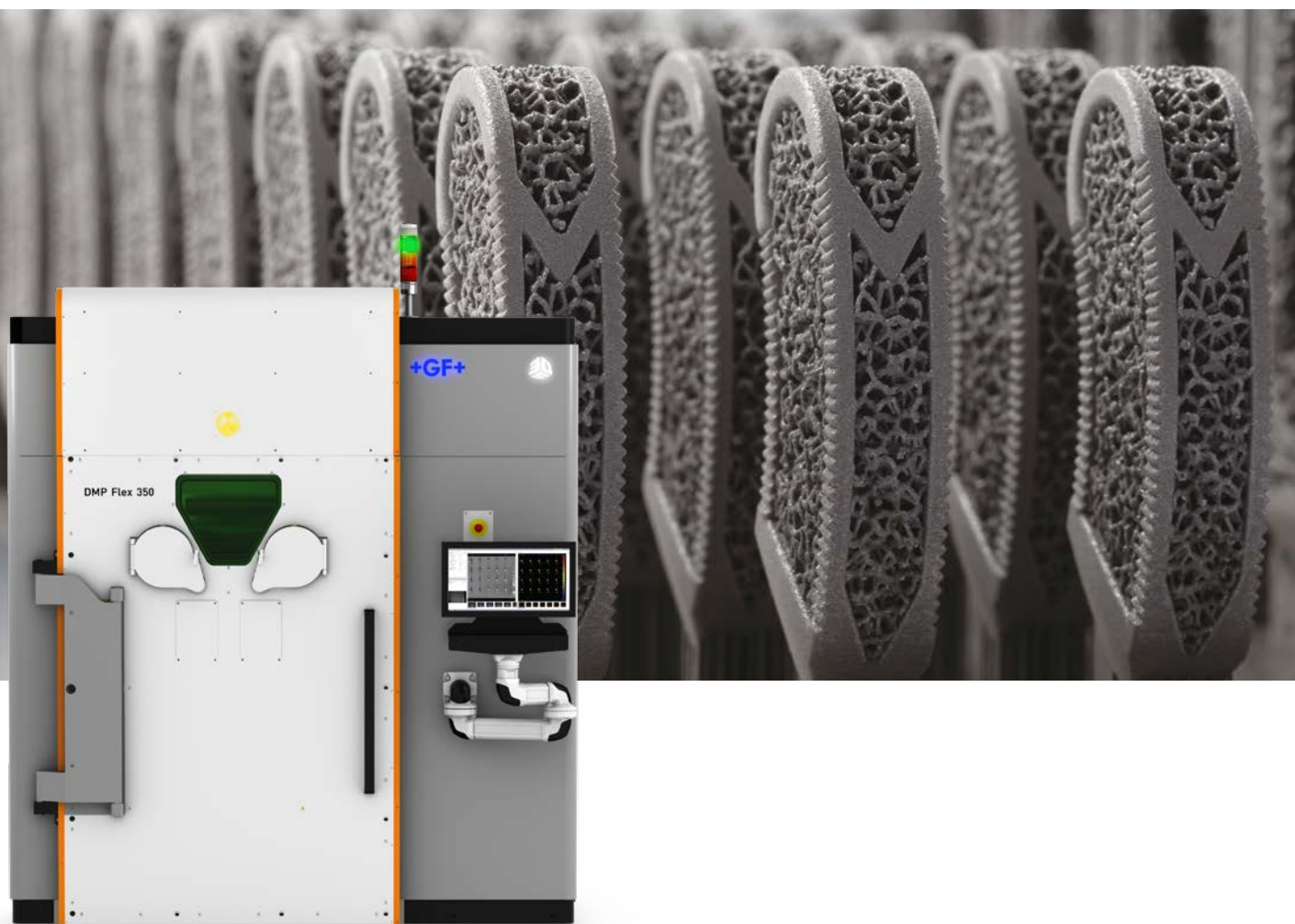


# DMP Flex 350

Robust, flexible metal 3D printer for 24/7 part production

- Ideal for application development, production and R&D
- Easily scalable, due to consistent machine to machine performance
- Upgradable to DMP Factory 350 with integrated powder management



DMP Flex 350

# Robust, flexible metal 3D printer for 24/7 part production

Flexible, high throughput, high repeatability metal 3D printer that generates high quality precision parts with a build volume of 275 x 275 x 420 mm from the most challenging alloys. Integrated metal 3D printing solution with DMP production metal printer, 3DXpert™ software, thoroughly qualified LaserForm materials and expert application support. Upgradable to DMP Factory 350 solution.



Aerospace bracket



Formula 1 exhauster



Cervical implants



Fuel injection nozzle

**High repeatability for high quality parts**

- Purest atmosphere during printing, consistently low O<sub>2</sub> environment (<25 ppm)
- Excellent microstructure, very high density
- Repeatable, stable mechanical properties
- Consistent accuracy – machine to machine
- Thoroughly developed and tested print settings

**High throughput metal 3D printing**

- Fast bidirectional material deposition
- High printer utilization, low change-over time
- Average productivity increase over previous model of 15% dependent on geometry
- Optimized scan strategies for maximum productivity
- Short changeover times

**Low TCO for affordable per part costs**

- High powder recyclability
- Low usage of consumables
- Long lasting and safe process filter



Hydraulic manifold



Technical specifications	DMP Flex 350		
Laser power type	500 W/Fiber laser <sup>3</sup>	Typical accuracy	± 0.1-0.2% with ± 50 µm minimum
Build volume (X x Y x Z)	275 x 275 x 420 mm* (10.82 x 10.82 x 16.54 in) *height inclusive of build plate	DMP Monitoring Software tool	Optional 3DXpert all-in-one software for Metal AM
Layer thickness	10-100 µm preset: 30 and 60 µm	Control Software	DMP software suite
Repeatability	x=20 µm, y=20 µm, z=20 µm		
Minimum feature size	100 µm		

**Powder management (optional external)**

LaserForm metal alloy choices with developed print parameters:

LaserForm Ti Gr1 (A) <sup>1</sup>	LaserForm AlSi10Mg (A) <sup>1</sup>	LaserForm 17-4PH (A) <sup>2</sup>
LaserForm Ti Gr5 (A) <sup>1</sup>	LaserForm AlSi7Mg0.6 (A) <sup>1</sup>	LaserForm CoCrF75 (A) <sup>2</sup>
LaserForm Ti Gr23 (A) <sup>1</sup>	LaserForm Ni625 (A) <sup>2</sup>	LaserForm 316L (A) <sup>2</sup>
	LaserForm Ni718 (A) <sup>2</sup>	LaserForm Maraging Steel (A) <sup>2</sup>

<sup>1</sup> Set up A   <sup>2</sup> Set up B   <sup>3</sup> Maximum laser power at powder layer is typical 450 W for 500 W lasers



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