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_2 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[3]	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	Optional
		Software tool	3DXpert all-in-one software for Metal AM
Layer thickness	10-100 µm preset: 30 and 60 µm		
Repeatability	x=20 µm, y=20 µm, z=20 µm	Control Software	DMP software suite
Minimum feature size	100 µm		

Powder management (optional external)

LaserForm metal alloy choices with developed print parameters:

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

[1] Set up A [2] Set up B [3] Maximum laser power at powder layer is typical 450W for 500W lasers

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