



DMP Factory 500

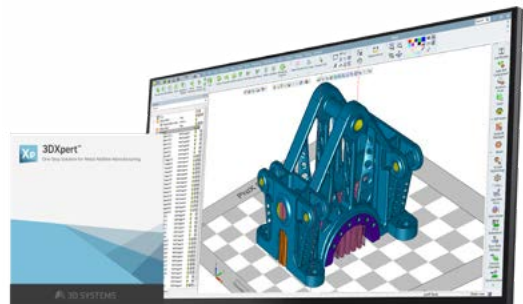
Scalable metal additive manufacturing for seamless large parts

Workflow optimized solution for massive scalability, repeatable high quality parts, high throughput and low total cost of ownership

Based on 3D Systems' proven precision metal 3D printing technology and GF Machining Solutions' technical and industrial knowledge and precision System 3R clamping systems, the DMP Factory 500 solution is an integrated platform with 3DXpert™ software, LaserForm® materials, workflow-optimized DMP production modules and expert application support. The DMP Factory 500 solution is engineered for uniform, repeatable part quality and high productivity in metal 3D printing with a low total cost of ownership (TCO) and smooth integration with traditional metal manufacturing processes. Function-specific modules are designed to maximize efficiency and optimize utilization.



UP TO 500x500x500mm



BUILD HIGHER QUALITY LARGE PARTS

- Intelligent seamless scanning via unique 3DXpert enabled print strategies
- Thoroughly developed and tested print settings
- Consistent, low O₂ environment
- High precision laser quality control and in-line verification capabilities

LOWER TCO

- High printer utilization
- Powder traceability & control
- High powder recyclability
- Fast bidirectional recoating

SIMPLIFY PROCESS WORKFLOWS

- CAD-based build setup with 3DXpert
- Integrated printer zero point System 3R clamping system
- Modular design enables full automation



SCALE IN A FACTORY ENVIRONMENT

- Optimize mix of modules to meet production requirements and optimize individual equipment OEE's
- Enable parallel workflows
- Full powder management and containment
- Highest safety standards for the equipment



Technical specifications

DMP Factory 500 Printer Module	
Laser power type	3 x 500 W / Fiber laser
Laser wave length	1070 nm
Layer thickness, range, preset	Adjustable, min. 2 µm, max.200 µm, typ. 30-60-90 µm
Build envelope	500 x 500 x 500 mm (20 x 20 x 20 in)
Material deposition	Tube (Silicon)
Repeatability	x y z 20 µm (0.00079 in)
Minimum feature size	100 µm (0.0039 in)
Typical accuracy	± 0.1- 0.2% with ± 50 µm minimum
Dimensions uncrated (w x d x h)	3010 x 2290 x 2820 mm (118 x 90 x 111 in)
Electrical requirements	400 V AC 3 phase + N + PE - 50/60 Hz
Powder Management Module (PMM)	
Module footprint (w x d x h)	4050 x 2450 x 3000 mm (160 x 97 x 118 in)
Electrical requirements	400 V AC 3 phase + N + PE - 50/60 Hz
Removable Print Module (RPM)	
Dimensions uncrated (w x d x h)	1120 x 850 x 1400 mm (44 x 33 x 55 in)
Transport Module (TRM)	
Dimensions uncrated (w x d x h)	850 x 1810 x 1400 mm (33 x 71 x 55 in)
Electrical requirements	400 V AC 3 phase + N + PE - 50/60 Hz
Parking Module (PAM)	
Dimensions uncrated (w x d x h)	1450 x 1780 x 1850 mm (57 x 70 x 72 in)
Electrical requirements	400 V AC 3 phase + N + PE - 50/60 Hz



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