

DMP Factory 350

Robust, high quality Metal AM with integrated powder management

- High repeatability for high quality parts
- Low TCO for affordable per part costs
- High throughput metal 3D printing



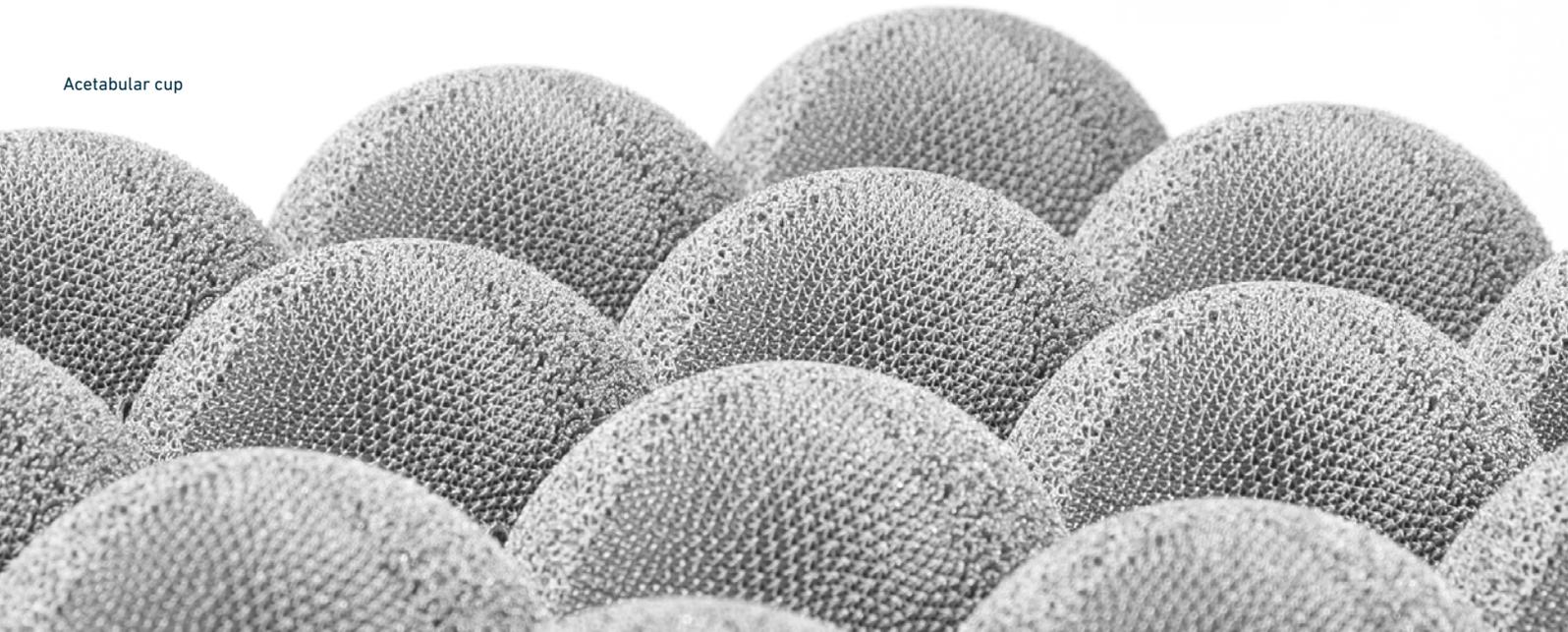
DMP Factory 350

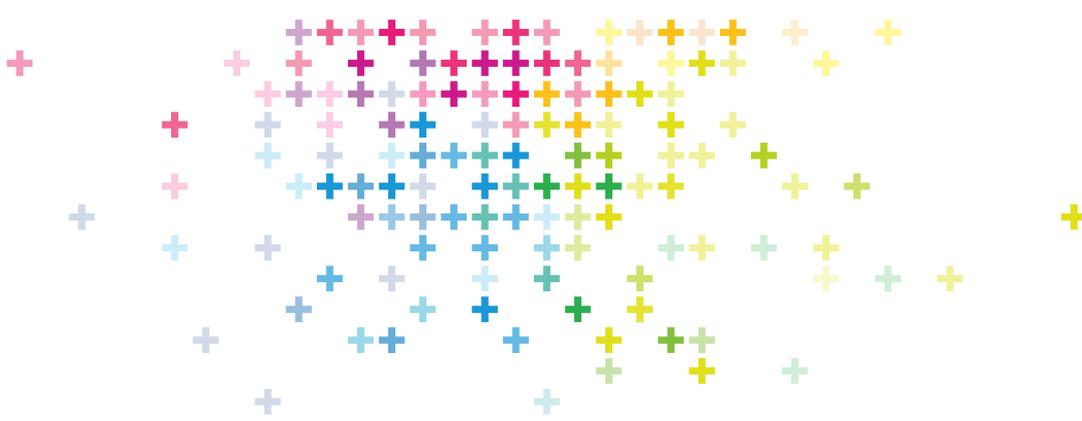
Robust, high quality Metal AM with integrated powder management

High throughput, high repeatability metal 3D printer that generates precision quality parts from the most challenging alloys with high quality material management for maximum powder usage. Integrated metal 3D printing solution with DMP production metal printer, 3DXpert™ software, thoroughly qualified LaserForm® materials and expert application support. For companies that are scaling their metal AM production and require closed powder handling.



Acetabular cup





High repeatability for high quality parts

- Purest atmosphere during printing, consistently low O2 environment (<25 ppm)
- Excellent microstructure, very high density
- Repeatable, stable mechanical properties
- Consistent accuracy - machine to machine
- Thoroughly developed and tested print settings

Low TCO for affordable per part costs

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

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

High quality powder and process management

- In-unit viewing panel enables visual inspection of ultrasonic sieve to ensure incident-free operation
- Ensures maximum powder usage
- Minimized user powder contact
- DMP Monitoring - real-time process monitoring for informed decisions on product quality



Technical specifications

DMP Factory 350

Laser power type	500 W/Fiber laser ⁴	Typical accuracy	± 0.1-0.2% with ± 50 µm minimum
Build volume (X x Y x Z) ¹	275 x 275 x 380 mm (10.82 x 10.82 x 14.96 in)	DMP Monitoring	Included
Layer thickness	10-100 µm preset: 30 and 60 µm	Software tool	3DXpert all-in-one software for Metal AM
Repeatability	x=20 µm, y=20 µm, z=20 µm	Control Software	DMP software suite
Minimum feature size	100 µm		

Powder management (integrated)

LaserForm metal alloy choices with developed print parameters:

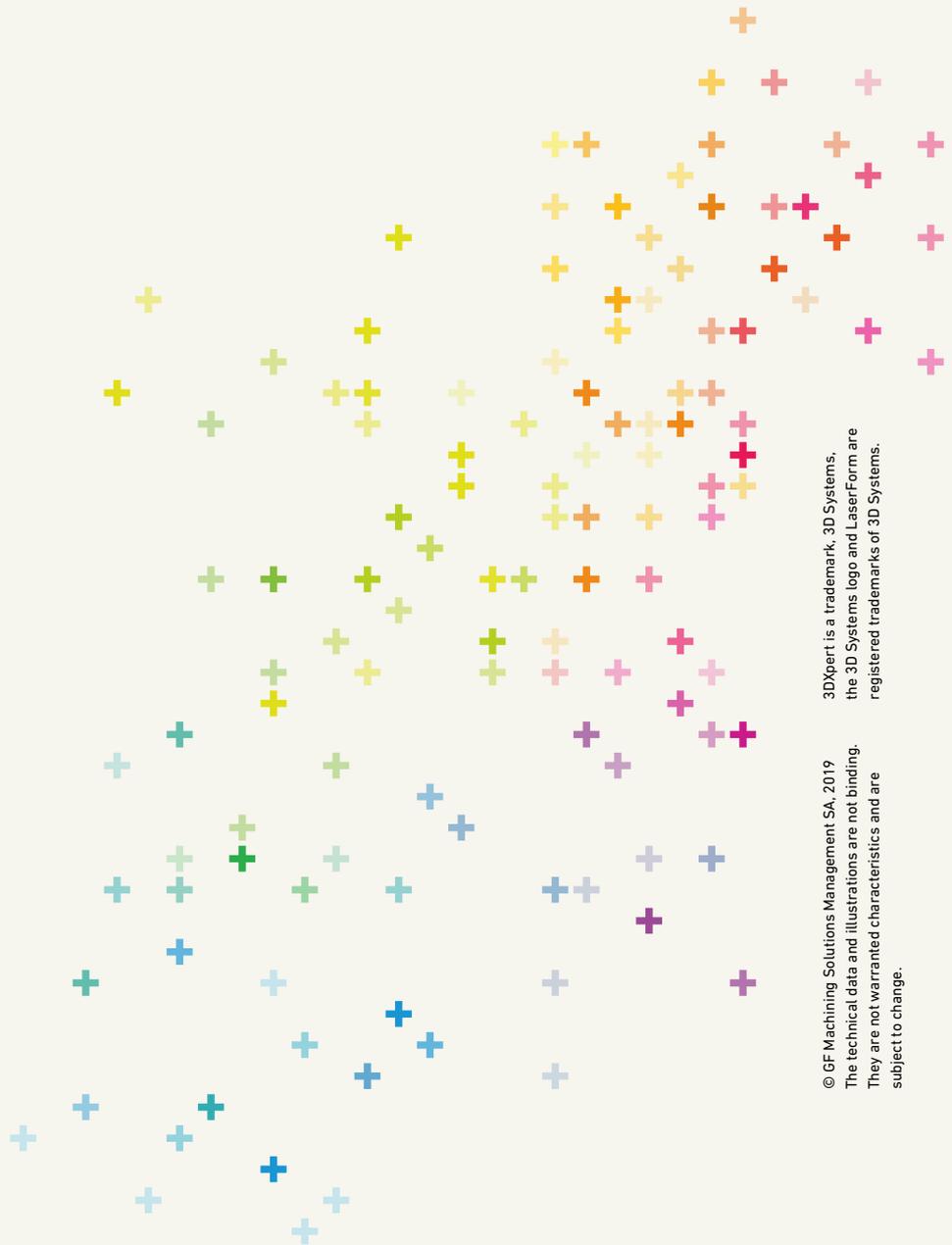
LaserForm Ti Gr1 (A) ²	LaserForm AlSi10Mg (A) ²	LaserForm 17-4PH (A) ³
LaserForm Ti Gr5 (A) ²	LaserForm AlSi7Mg0.6 (A) ²	LaserForm CoCrF75 (A) ³
LaserForm Ti Gr23 (A) ²	LaserForm Ni625 (A) ³	LaserForm 316L (A) ³
	LaserForm Ni718 (A) ³	LaserForm Maraging Steel (A) ³

¹ Maximum available part size using standard build plate ² Set up A ³ Set up B
⁴ Maximum laser power at powder layer is typical 450W for 500W lasers

At a glance

We enable our customers to run their businesses efficiently and effectively by offering innovative Milling, EDM, Laser, Additive Manufacturing, Spindle, Tooling and Automation solutions. A comprehensive package of Customer Services completes our proposition.

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