

# Sinterstation® Pro DM100/DM250

## SLM Systems



Lightweight automotive  
exhaust component



Rapidly manufacture fully dense end-use metal parts with excellent surface finish, feature detail and tolerances. Choose from the largest range of metal alloys, including Aluminum and Titanium.

### Applications

- Functional testing of production-quality prototypes
- Economical manufacturing of organic or highly complex geometries
- Rapid low-volume manufacturing of metal parts
- Examples:
  - Custom medical implants
  - Lightweight aerospace and motorsports parts
  - Efficient heat sinks
  - Injection mold inserts with conformal cooling channels
  - Dental caps, crowns and bridges

### Features

- Larger build volume for large parts or batches (DM250)
- Smaller build volume for small parts or batches (DM100)
- Advanced material upgrade
- Integrated powder recycle upgrade
- Reliable powder re-coating system
- Multiple laser options
- Easy to remove support structures
- Advanced digital scanning system
- Heated build platform

### Benefits

- Excellent surface finish and reduced finishing time
- Fine feature detail
- Tight tolerances
- Fast build speeds
- Rolled-like mechanical properties
- Parts from a variety of steel, Aluminum and Titanium alloys



Custom hip implant.  
(Photo courtesy of Royal Perth Hospital - Australia)



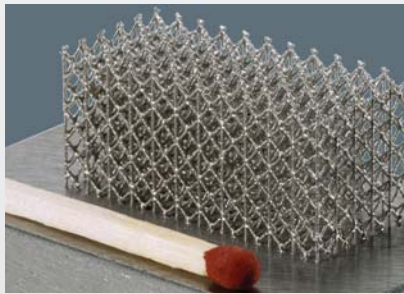
Dental caps, crowns and bridges from a digital scan.

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Injection mold insert with conformal cooling.



Ultra-light structure in aluminum.



Steam cleaning system manifold.

## Technical Data

### Sinterstation® Pro DM100 SLM System

	Metric	U.S.
Maximum Part Building Area	Ø125 x 80 mm (diameter and z)	Ø5 x 3 inches (diameter and z)
Build Speed	Up to 30 cm <sup>3</sup> per hour	Up to 2 in <sup>3</sup> per hour
Scan speed	Up to 10 m/sec	Up to 400 inches/sec
Layer Thickness	30 or 50 micron	0.001 or 0.002 inches
Laser Beam Diameter	30 to 200 micron	0.001 to 0.008 inches
Laser Options	50, 100 or 200 Watt	
External Dimensions	900 x 800 x 2500 mm	36 x 32 x 100 inches
Weight	400 kg	900 lbs
Power Supply	208 Volt, 3 phase, 50/60 Hertz, 16 Amp, 12.5 kVA	

### Sinterstation® Pro DM250 SLM System

	Metric	U.S.
Maximum Part Building Area	250 x 250 x 220 mm (xyz)	10 x 10 x 8.7 inches (xyz)
Build Speed	Up to 30 cm <sup>3</sup> per hour	Up to 2 in <sup>3</sup> per hour
Scan speed	Up to 10 m/sec	Up to 400 inches/sec
Layer Thickness	50 or 75 micron	0.002 or 0.003 inches
Laser Beam Diameter	80 to 350 micron	0.003 to 0.014 inches
Laser Options	100, 200 or 400 Watt	
External Dimensions	1900 x 1400 x 2500 mm	75 x 55 x 100 inches
Weight	800 kg	1800 lbs
Power Supply	208 Volt, 3 phase, 50/60 Hertz, 16 Amp, 12.5 kVA	

### Data Input

CAD Interface	STL file
Network	Ethernet



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