

SLM 3D Metal Printer

SP500190121



Pictured with DS500 Build Chamber Docking Station

Features

- ◇ 500 x 250mm build platform
- ◇ 260mm build height *
- ◇ Removable build chamber for continuous production**
- ◇ Dual 500W lasers
- ◇ Printing within inert atmosphere
- ◇ System certification for aerospace and biomedical***

Quality and productivity for high performance industries

Create full system certification with our pre-powder preparation and part removal solutions. Training, through-life support, installation, commissioning calibration, certification, spares and software upgrades.

Designed & Engineered in Australia

* Including substrate
** Depending on configuration
*** Contact AmPro

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Technical Data (AmPro SP500)

General Parameters

Build Area (L x W)	500mm x 250mm
Build Height	260mm including substrate
Powder Layer Thickness	20 - 100µm
Focus Diameter	75µm (approx.)
Powder Dispensing	Silo powder feed with bi directional recoater [~]
Printing Rate	1-50 cm ³ /hr †
Power Supply	380V-415V, 3-phase
Power Consumption	< 12KW
Substrate Preheating	200°C Max
Shielding Gas	Argon/Nitrogen (Up to 150L/min purge & 6L/min sustain)
Filter System	F9 + H13 (Optional Extended Life Filtration Upgrade)

Optical Parameters

Laser Power	Dual 500W
Scanner Type	2-axis with F-Theta lens (optional 3-axis)
Scan Speed	Up to 7.0m/s †

Machine Dimensions

Length x Width x Height	3540 x 1160 x 2580mm
Weight	2500kg (approx.)
Recommended Installation Space	5m x 5m x 5m

Data Management

Software	AmPro Print Controller with .CLI File Format
Parameter Control	Build optimisation and material specific parameter library
Camera	Optional

Metal Powder Compatibility

Stainless Steels - 304L, 316L
Aluminium Alloys - AlSi10Mg, AlSi7Mg
Nickel Alloys - In625, In718, Hx Alloy
Titanium Alloys - Ti64
CoCr
Tool Steels - MS1, M100
Tungsten
Further materials available on request

Optional Accessories

DS500 Build Chamber Docking Station
PS20 / PS60 Powder Silos
G4 Powder Removal Glove Box
Powder Handling Machines
DU40 Powder Decanter
SU40 Sieving Unit
VU40 Vacuum Conveyor Unit

[~]Optional

[†]Material dependent