

SLM 3D Metal Printer



Features

- ◇ Build parts within 500 x 250mm build area
- ◇ 220 to 400mm build height (depending on configuration)
- ◇ Bi-directional re-coater for faster cycles
- ◇ Variable build area for powder savings
- ◇ Twin 500W lasers
- ◇ Removable build chamber for continuous production (depending on configuration)
- ◇ 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.

Designed & Engineered in Australia

SLM 3D Metal Printer

Technical Data (AmPro SP500)

SP500150520

General Parameters

Build Area (L x W)	500mm x 250mm
Build Height	220 - 400mm (depending on configuration)
Powder Layer Thickness	20 - 100µm
Dimensional Precision	±0.05mm (±0.02mm Repeatability)
Powder Dispensing	Silo powder feed with bi directional re-coater
Printing Rate	5-50 cm ³ /h
Power Supply	380V-415V, 3-phase
Power Consumption	< 12KW
Substrate Preheating	~250°C

Optical Parameters

Laser Type	IPG Fiber Laser, 2 x 500W
Scanner Type	CTI 2-axis (optional 3-axis)
Shielding Gas	Argon/Nitrogen (15L/min Purge & 6L/min Sustain)
Scan Speed	Up to 7.0m/s (material dependent)
Filter System	H13

Machine Dimensions

Length x Width x Height (mm)	3540 x 1160 x 2580
Weight	1830kg (Approx.)
Recommended Installation Space	5m x 3m x 3m

Metal Powder Compatibility

Metal Powders	Titanium alloy, Fe, Cu, AISi10Mg, AISi7Mg, Hx Alloy Ni, Co, Stainless Steel (304L, 316L)
---------------	--

Data Management

Network	Windows 10 Pro
Software	AmPro Print Controller with .CLI File Format
Parameter Control	Build optimisation and material specific parameter library

Post Sales

Support	Training, through-life support, installation, commissioning calibration, certification, spares and software upgrades.
---------	---