AmPro Innovations

SP400

SLM 3D Metal Printer

Features

- Build volume 400 x 400 x 400mm
- Slide out build chamber for fast change over.
- Bi-directional re-coater for faster cycles
- Variable build area for powder savings
- 3-axis scan head
- Printing within inert atmosphere
- System certification for aerospace and biomedical
- 500W laser

Quality and productivity for high performance industries

Create full system certification with our pre-powder preparation and part removal solutions.

Designed & Engineered in Australia

SP400030820

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Technical Data (AmPro SP400)

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General Parameters	
Build Volume (L x W x H)	400mm x 400mm x 400mm
Powder Layer Thickness	20 - 100μm
Dimensional Precision	±0.05mm (±0.02mm Repeatability)
Powder Dispensing	Silo powder feed with bi directional re-coater
Printing Rate	3-30 cm^3/h
Power Supply	380V-415V, 3-phase
Power Consumption	< 6KW
Substrate Preheating	0-200°C
Optical Parameters	
Laser Type	IPG Fiber Laser, 1 x 500W
Scanner Type	CTI 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)	2600 x 1350 x 2250
Weight	2500kg (Approx.)
Recommended Installation Space	5m x 3m x 3m
Metal Powder Compatibility	
Metal Powders	Titanium alloy, Fe, Cu, AlSi10Mg, AlSi7Mg, Hx Alloy Ni, Co, Stainless Steel (304L, 316L)
Data Management	
Network	Windows 10 Pro
File Format	.CLI sliced file
Software	AmPro Print Controller
Parameter Control	Build optimisation and material specific parameter library
Post Sales	
Support	Training, through-life support, installation, commissioning calibration, certification, spares and software upgrades.