

SLM METAL PRINTER

AMAERO
ADDITIVE MANUFACTURING

SP 500



SP500041019

FEATURES

- Build parts up to 500 x 250 x 350
- Removable build chamber for continuous production
- Bi-directional re-coater for faster cycles
- Variable build area for powder savings
- 10 min build chamber changeover
- Printing within inert atmosphere
- System certification for aerospace and biomedical
- Twin 500W lasers

*Quality and productivity for high
performance industries*

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

Designed, Engineered & Built in Australia

DISTRIBUTED BY AMAERO | info@amaeroinc.com

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TECHNICAL DATA

SP500041019

GENERAL PARAMETERS

BUILD VOLUME (L x W x H)	500mm x 250mm x 350mm
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 cm³/h
POWER SUPPLY	380V - 415V, 3-phase
POWER CONSUMPTION	<12KW
SUBSTRATE PREHEATING	~250°C

OPTICAL PARAMETERS

LASER TYPE	IPG Fibre 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
RECOMMENDED INSTALLATION SPACE	5m x 3m x 3m
WEIGHT	2500 Kg (Approx.)

METAL POWDER COMPATIBILITY

METAL POWDERS	Titanium alloy, Fe, Cu, AlSi10Mg, AlSi7Mg, Hx Alloy, Ni, Co, Stainless Steel (304L, 316L)
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DATA MANAGEMENT

NETWORK	Ethernet
CAD INTERFACE	STL and other formats
SOFTWARE	AmPro Print Controller, Windows 10 Pro
PARAMETER CONTROL	Build optimization and material specific parameter library

POST SALES

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