

# METAL PRINTER

**AMAERO**  
ADDITIVE MANUFACTURING

## SP 500



SP500041019

## FEATURES

- Build parts up to 500 x 250 x 350mm (19.6in x 9.8in x 13.8in)
- 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

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*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*

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## TECHNICAL DATA

SP500041019

### GENERAL PARAMETERS

BUILD VOLUME (L x W x H)	500mm (19.6in) x 250mm (9.8in) x 350mm (13.8in)
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	3540mm (139in) x 1160mm (46in) x 2580mm (102in)
RECOMMENDED INSTALLATION SPACE	5000mm (197in) x 3000mm (118in) x 3000mm (118in)
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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