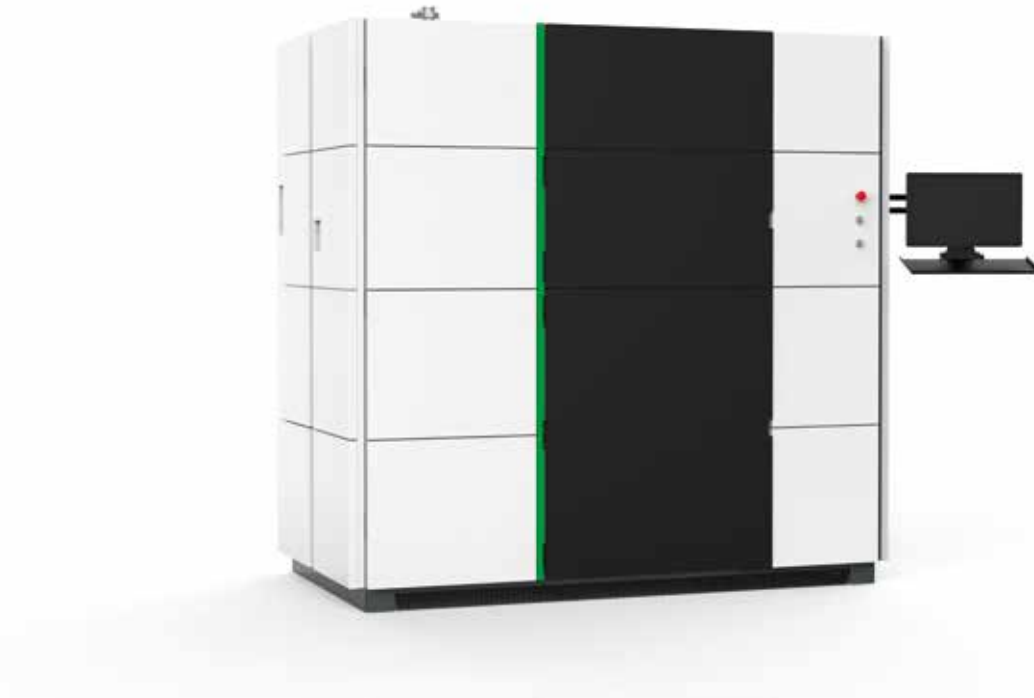


3D METAL PRINTER

AMAERO
ADDITIVE MANUFACTURING

SP400



SP400030820

FEATURES

- Build volume 400 x 400 x 400mm (15.7 x 15.7 x 15.7in)
- 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
- 500W laser

Quality and productivity for high performance industries.

Optional pre powder preparation and part removal solutions under inert atmosphere for safe metal powder handling.

Designed & Engineered in Australia.

DISTRIBUTED BY AMAERO | info@amaeroinc.com

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TECHNICAL DATA

SP400030820

GENERAL PARAMETERS

BUILD VOLUME (L X W X H)	400mm (15.7in) x 400mm (15.7in) x 400mm (15.7in)
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 2-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	2600mm (102in) x 1350mm (53in) x 2250mm (89in)
WEIGHT	1750kg (Approx.)
RECOMMENDED INSTALLATION SPACE	5000mm (197 in) x 3000mm (118in) x 3000mm (118in)

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
FILE FORMAT	.CLI sliced file
SOFTWARE	AmPro Print Controller, Windows 10 Pro
PARAMETER CONTROL	Build optimisation and material specific parameter library

POST SALES

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