SP600
SLM 3D Metal Printer

AmPro Innovations



Complete process integration system for 3D metal printing

- Build parts up to 600 x 600 x 800mm
- 6 × 500W IPG lasers
- Open parameter library
- Bi-directional re-coater for faster cycles
- Large capacity automatic powder feeding

Technical Specifications
SP600

Technical Data

General Parameters	
Build Volume (L x W x D)	600mm × 600mm × 800mm
Precision	±0.1mm (material dependent)
Printing Rate	50 - 200cm³/hr (material dependent)
Powder Layer Thickness	20 - 100μm
Focus Diameter	60 - 100μm
Powder Recoating	Bi-directional
Power Supply	AC 380-415V (3 Phase)
Shielding Gas	Argon / Nitrogen
Filter System	Long-life Self-cleaning Filter
Substrate Heating	Up to 200℃
Optical Parameters	
Laser System	6 × IPG 500W
Scanner Type	ScanLab 2 axis
Scan Speed	Up to 7.0m/s
Machine Dimensions	
Length x Width x Height	6015mm × 5390mm × 5385mm
Recommended Installation Space	8000mm × 7000mm × 7000mm
Data Management	
Software	AmPro Print Controller with .CLI File Format
Parameter Control	Build optimisation and material specific parameter library
Data Format	CLI&SLC.

Metal Powder Compatibility
Stainless Steels - 304L, 316L
Aluminium Alloys - AlSi10Mg
Nickel Alloys - In625, In718
Titanium Alloys - TC4

Optional Accessories
AmPro 200L Powder Silos