

Metal Additive Manufacture System

BLT-S600



ISO9001:2015 / ISO14001:2015 / ISO45001:2018

Six Years of Sharpening, Higher Achievement

Selecting Excellent Component

Stable Full-substrate Printing

24-hour Unattended Operation

Large-size and High-quality Production

More Valuable after Multiple Tests



Multi-batch Iteration Batch Application Verification
Maturity and stability of system operation



Large Build Dimension
Large precision parts can be built worry-free



Multi-beam Lasers Seamless Splicing
The building quality of each area is consistent



Hard Scraper
Fixed layer thickness Adhere to the quality



Permanent Filtration System
Filter's life lasts for 10 years

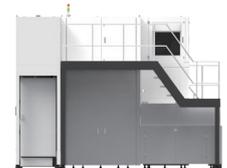


Self-adapting Powder Spreading Correction
Deep learning technology makes printing smarter



Powder Supply System
Automatic powder adding uninterrupted production

Supporting Materials	Titanium Alloy, Aluminum Alloy, Superalloy, Stainless Steel, High-strength Steel, Tool Steel
Build Dimension ⁽¹⁾	600mm×600mm×600mm(W × D × H)
Laser Power	500W×4; 500W×6
Wave Length	1060nm-1080nm
Layer Thickness	20μm~100μm
Maximum Scanning Speed	7m/s
Building Speed ⁽²⁾	100cm ³ /h; 150cm ³ /h
Preheating Temperature	RT +20°C~100°C
Beam Quality	M ² <1.1
Optics System	F-theta Lens
Recoating	Single/Double Recoating System
Minimum Oxygen Content	≤100ppm
Gas Requirement	Ar
Power Requirement	≤18kW; ≤20kW
Supply Voltage	AC380V 3Ph/N/PE
Dimension of the System	4700mm×5100mm×3800mm(W × D × H)
Weight of the System	Approx. 14900kg
Software	Magics; BLT-BP; BLT-MCS



Citations: (1) Excluding substrate thickness; (2) Dependent on part geometry, material and parameter set used.

➤ BLT-S600 APPLICATIONS



Aeroengine Casing with
Nickel Base Superalloy



Wheel



Hydrazine
Bottle Adapter



Blade Ring

➤ BLT-S600 INTELLIGENT MODULES

Standard Functions

Self-diagnosis Fault-grading/Full Printing Process Traceability/Height Self-checking on Parts/
Powder Spreading Quality Control/3D Reconstruction

Optional Functions

BLT-MCS Third-party Interconnection/BLT-MES System

➤ BLT-S600 AUXILIARY MACHINES



Powder Sieving Machine
BLT-SF400



Powder Collection Machine
BLT-WL400



Powder Cleaning Machine
BLT-QF600



Powder Adding Machine
BLT-GF300

➤ BLT-S600 CONSUMABLES AND POWDERS

Consumable

Scraper/Substrate

Powder

Titanium Alloy/Aluminum Alloy/Superalloy/Stainless Steel
/High-strength Steel/Tool Steel