Metal Additive Manufacturing System

BLT-S510/S515

CE Safety Certification
Laser FDA Safety Certification
ATEX (Explosion Proof) Certification
ISO9001:2015 / ISO14001:2015 / ISO45001:2018

Breakthrough Build Limit, Aim for the Highest

| Selecting Excellent Components | 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
Additive manufacturing breaks the height limit

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

Hard Scraper
The building quality of each area is consistent

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, Superalloy, Stainless Steel, High-strength Steel, Tool Steel
Build Dimension[1]	500mm×500mm×1000mm（W×D×H）(BLT-S510) 500mm×500mm×1500mm（W×D×H）(BLT-S515)
Laser Power	500W×4; 500W×6
Wave Length	1060nm-1080nm
Layer Thickness	20μm~100μm
Maximum Scanning Speed	7m/s
Building Speed[2]	100cm³/h; 150cm³/h
Preheating Temperature	RT +20℃~100℃
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	≤12kW; ≤15kW
Supply Voltage	AC380V 3Ph/N/PE
Dimension of the System	5540mm×5600mm×3800mm（W×D×H）(BLT-S510) 6240mm×5072mm×4056mm（W×D×H）(BLT-S515)
Weight of the System	Approx. 11500kg(BLT-S510)　　Approx. 21500kg(BLT-S515)
Software	Magics; BLT-BP; BLT-MCS
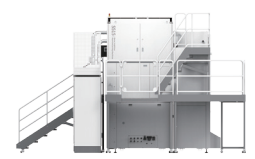
Citations: (1)Excluding substrate thickness; (2)Dependent on part geometry, material and parameter set used.

BLT-S510/S515 APPLICATIONS

Aero-Engine Fan Blades — **Fan Blade Hemming** — **Fan Blade** — **Rail Bracket** — **Hydrazine Bottle Adapter**
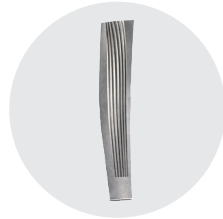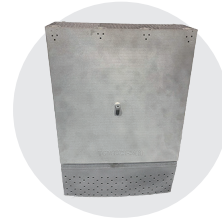
BLT-S510/S515 INTELLIGENT MODULES

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-S510/S515 AUXILIARY MACHINES

Powder Sieving Machine BLT-SF800

Powder Collection Machine BLT-WL400

Powder Adding Machine BLT-GF300

BLT-S510/S515 CONSUMABLES AND POWDERS

Consumable
Scraper/Substrate

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