Metal Additive Manufacturing Machine

BLT-S400

CE Safety Certification | Laser FDA Safety Certification | ATEX(Explosion Proof) Certification

ISO9001:2015 / ISO14001:2015 / ISO45001:2018

Mass Production，"Smart" Manufacturing Upgraded

| Aerospace Quality Assurance | Stable Full-substrate Printing | High-quality Batch Production | Large-size Building Technology | 24-hour Unattended Operation |

Batch Application Verification
Maturity and stability of machine operation

Advanced Flow Field Design
The forming quality is greatly improved

Double/ Triple Laser is Optional Two-way Intelligent Powder Feeding
Efficiency increases dramatically

Back Blowing Filtration System
Filter's life lasts for 1500 hours

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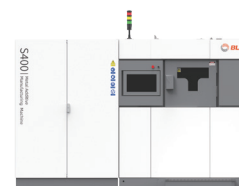Deep learning technology makes printing smarter

Powder-worker Separated in the Whole Process
Strengthen occupational health protection

3D Reconstruction
Building Visualization is easy for quality traceability

Supporting Materials	Titanium Alloy, Aluminum, Superalloy, Stainless Steel, High-strength Steel, Tool Steel, Copper Alloy
Build Dimension[1]	400mm×250mm×400mm(W × D × H)
Laser Power	500W×2; 500W×3
Wave Length	1060nm-1080nm
Layer Thickness	20μm~100μm
Maximum Scanning Speed	7m/s
Building Speed[2]	50cm³/h; 75cm³/h
Preheating Temperature	RT +20℃~200℃
Beam Quality	M^2<1.1
Optics System	F-theta Lens
Recoating	Single/Double Recoating System
Minimum Oxygen Content	≤100ppm
Gas Requirement	Ar/N_2
Power Requirement	≤11kW; ≤14kW
Supply Voltage	AC380V 3Ph/N/PE
Machine Dimension	3400mm×1200mm×2200mm(W × D × H)
Machine Weight	Approx. 3700kg
Software	Magics; BLT-BP; BLT-MCS

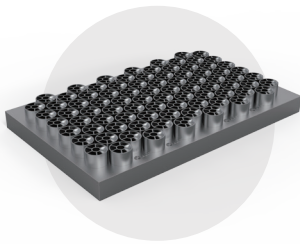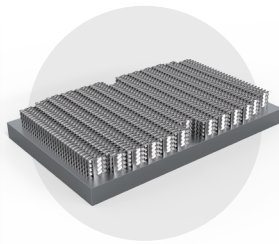Citations：(1)Excluding substrate thickness; (2)Dependent on part geometry, material and parameter set used.
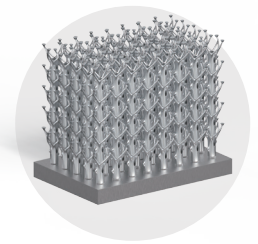
BLT-S400 APPLICATIONS

Full Substrate Swirler

Full Substrate Steel Sheet

Full Substrate Braced Frame

Full Substrate Mounting Bracket

BLT-S400 INTELLIGENT MODULES

Standard Functions

Self-diagnosis Fault-grading/Real-time Monitoring of the Printing Process /Full Printing Process Traceability/Powder Spreading Quality Control/3D Reconstruction

Optional Functions

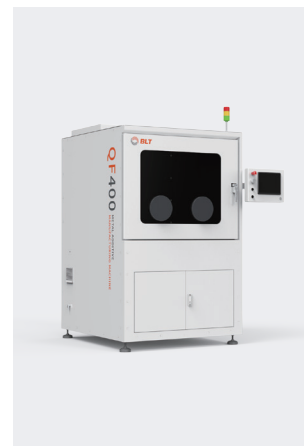Permanent Filtration System/BLT-MCS Third-party Interconnection/BLT-MES System

BLT-S400 AUXILIARY MACHINES

Powder Sieving Machine
BLT-SF400

Powder Collection Machine
BLT-WL200

Powder Cleaning Machine
BLT-QF400

BLT-S400 CONSUMABLES AND POWDERS

Consumable

Scraper/Substrate/Filter Element

Powder

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