

Metal Additive Manufacturing Machine

BLT-S400



CE
Certification



Laser FDA Safety
Registration



ISO9001:2015 / ISO14001:2015 / ISO45001:2018

The machine has passed
ATEX (Explosion Proof) Assessment

Batch Production, "Smart" Manufacturing Upgraded

Aerospace
Quality Assurance

Stable Full-substrate
Printing

High-quality
Batch Production

A Variety of Build
Dimension Options

Automatic Circulation of
Powder



**Batch Application
Verification**
Maturity and stability
of machine operation



**Multiple Lasers Available
Double-direction and
High-efficiency
Dynamic Powder Spreading**
Efficiency increases
dramatically



**Long-life
Filtration System**
Safety & Longevity
double guarantee



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



Automatic Circulation of Powder
Powder closed-circulation
processing system
Automatic recycling sieving and
supply



Extreme Utilization of Space
occupying 30% less space
multiplying benefits

Supporting Materials	Titanium Alloy, Aluminum Alloy, Superalloy, Stainless Steel, High-strength Steel, Tool Steel
Build Dimension ⁽¹⁾	400mm×300mm×400mm (W×D×H)
Laser Power	500W×2; 500W×3; 500W×6
Wave Length	1060nm-1080nm
Layer Thickness	20μm~100μm
Maximum Scanning Speed	7m/s
Building Speed ⁽²⁾	50cm ³ /h; 75cm ³ /h; 150cm ³ /h
Preheating Temperature	RT+20°C~200°C
Beam Quality	M ² ≤ 1.1
Optics System	F-theta Lens
Recoating	Single/Double-direction
Minimum Oxygen Content	≤100ppm
Gas Requirement	Ar/N ₂
Power Requirement	≤18kW; ≤20kW; ≤28kW
Supply Voltage	AC380V 3Ph/N/PE
Machine Dimension ⁽³⁾	2800mm×1200mm×2350mm (W×D×H)
Machine Weight	2800kg
Software	Magics; BLT-BP; BLT-MCS

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

(3)The dimension does not include the height of tri-color indicator and the height is remarked separately. The dimension is only theoretical, the actual data is affected by the configuration, subject to the installation.

*The data is under the condition of BLT, and the data is subject to actual sales.



*The figure of the machine is only for illustration,
and the product is subject to actual sales.



LinkedIn
Bright Laser Technologies-BLT

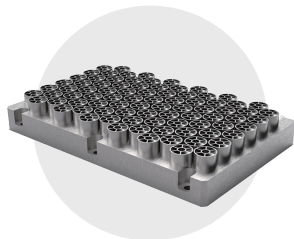


YouTube
Bright Laser Technologies

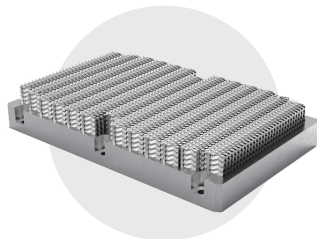


TikTok
@brightlaser.technologies

➤ BLT-S400 APPLICATION CASES



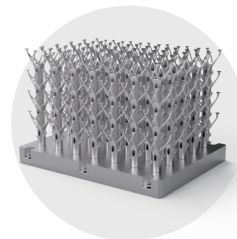
Full Substrate Swirler



Full Substrate
Steel Sheet



Full Chamber
Support Frame



Full Chamber
Support

➤ BLT-S400 INTELLIGENT MODULES

Standard Functions

Hierarchical Fault Diagnosis/Real-time Status Monitoring/Process Data Traceability

Optional Functions

BLT-MCS Connect/BLT-MES System/BLT-AutoCAL/Automatic Grafting
/Recoating Detection/Temperature Field Monitor/Video Monitoring

➤ BLT-S400 AUTOMATION SOLUTIONS



Powder Sieving Machine
BLT-SF400



Powder Collection Machine
BLT-WL200



Powder Supplying Machine
BLT-GF500



Depowdering Machine
BLT-QF400

➤ BLT-S400 CONSUMABLES AND POWDERS

Consumable

Recoater/Substrate

Powder

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