BLT

Stock Code:688333.SH

Make Easier Manufacturing
Make a Better World

Laser FDA Safety Registration

ISO9001:2015 / ISO14001:2015 / ISO45001:2018

The system design references ATEX (Explosion Proof) Assessment

Metal Additive Manufacturing System

BLT-S600

An Outstanding System of Ten Years Hard Work

Selecting Great Component | Stable Full-substrate Printing | Multi-lasers to Build More Efficient | Large-size and High-quality Production | Automatic Powder Circulation

Mass Application Validation
Iterative optimization of mature product
66% increase in build dimension

Multi-laser Efficient Forming
A variety of laser quantities are available
Efficient and dynamic recoating in double directions

Self-adapting Powder Spreading Correction
Deep learning technology
Automatic detection and correction of powder deficiency

Long-life Filtration System
Automatic backblow cleaning
Long-life filter ensures continuous use

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

Safe and Economical Production
Save gas and powder to enhance economic efficiency
Inert gas protection makes powder collection safer

Supporting Materials	Titanium Alloy, Aluminum Alloy, Superalloy, Stainless Steel, High-strength Steel, Tool Steel
Build Dimension(1)	650mm×650mm×850mm（W×D×H）
Wave Length	1060nm-1080nm
Laser Power	500W×4；500W×6；500W×8
Beam Quality	M^2≤1.1
Optics System	F-theta Lens
Maximum Scanning Speed	7m/s
Layer Thickness	20μm ~100μm
Building Speed(2)	100cm^3/h；150cm^3/h；200cm^3/h
Preheating Temperature	RT+20℃~100℃
Recoating	Single/Double-direction
Minimum Oxygen Content	≤100ppm
Gas Requirement	Ar
Power Requirement	≤24kW; ≤30kW; ≤33kW
Supply Voltage	AC380V 3Ph/N/PE
Dimension of the System(3)	5250mm×4300mm×4300mm（W×D×H）
Weight of the System	Approx. 14350kg
Software	Magics; BLT-BP; BLT-MCS

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

Citations: (1)Including 100mm thickness of substrate. (2)Dependent on part geometry, material and parameter set used.
(3)The height does not include the height of the maintenance guardrail. 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.

LinkedIn
Bright Laser Technologies-BLT

YouTube
Bright Laser Technologies

TikTok
@brightlaser.technologies

No.1000 Shanglinyuan Seventh Road, Hi-tech Zone, Xi'an City, Shaanxi Province, P.R.China 710000
+86-(0)29-88485673 ext. 8016/8017 sales.global@xa-blt.com www.xa-blt.com/en/

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BLT-S600 APPLICATION CASES

Aero-engine Casing with Nickel Base Superalloy

Wheel

Hydrazine Bottle Adapter

Blade Ring

BLT-S600 INTELLIGENT MODULES

Standard Functions

Hierarchical Fault Diagnosis/Process Data Traceability/
Recoating Detection/3D Reconstruction/Video Monitoring

Optional Functions

BLT-MCS Connect/BLT-MES System

BLT-S600 AUTOMATION SOLUTIONS

Powder Sieving Machine
BLT-SF400

Powder Collection Machine
BLT-WL400

Powder Supplying Machine
BLT-GF500

Powder Circulation System
BLT-XH300

BLT-S600 CONSUMABLES AND POWDERS

Consumable

Scraper/Substrate

Powder

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

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+86-(0)29-88485673 ext. 8016/8017 sales.global@xa-blt.com www.xa-blt.com/en/

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