

Metal Additive Manufacturing System

BLT-S450





ISO9001:2015 / ISO14001:2015 / ISO45001:2018

Optimized Upgrade Solutions, Reduce Costs and Increase Efficiency

Safe and Continuous Production

Multi-laser Efficient Forming

Mass Parts Stable Production

Automatic Circulation of Powder

Optimization Iteration of Mature Platform



Mass Application Validation Iterative optimization of mature product Solution is constantly evolving

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



Self-adapting Powder Spreading Correction Deep learning technology Automatic detection and



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 economical Inert gas protection makes powder collection safer

Supporting Materials	Titanium Alloy, Aluminum Alloy, Superalloy, Stainless Steel, High-strength Steel, Tool Steel
Build Dimension ⁽¹⁾	450mm×450mm×500mm (W×D×H)
Laser Power	500W×4; 500W×6; 500W×8
Wave Length	1060nm-1080nm
Beam Quality	M²≤1.1
Optics System	F-theta Lens
Maximum Scanning Speed	7m/s
Layer Thickness	20μm ~100μm
Building Speed ⁽²⁾	100cm³/h; 150cm³/h; 200cm³/h
Preheating Temperature	RT +20°C~100°C
Recoating	Single/Double Recoating System
Minimum Oxygen Content	≤100ppm
Gas Requirement	Ar
Power Requirement	≤32kW; ≤34kW; ≤36kW
Supply Voltage	AC380V 3Ph/N/PE
Dimension of the System ⁽³⁾	3820mm×2920mm×2780mm (W×D×H)
Weight of the System	Approx. 7500kg
Software	Magics; BLT-BP; BLT-MCS
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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

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



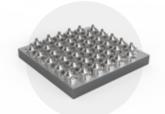
YouTube **Bright Laser Technologies**



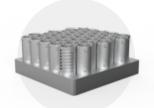
@brightlaser.technologies



BLT-S450 APPLICATION CASES



Full Substrate Mainfold



Full Substrate
Water-cooled Motor Housing



Central Gear Drive Housing



Blow Molding Bottle Mold

BLT-S450 INTELLIGENT MODULES

Standard Functions

Diagnosis Fault-grading/Process Data Traceability/Recoating Detection

Optional Functions

Automatic Grafting/3D Reconstruction/BLT-MCS Connect

▶ BLT-S450 AUTOMATION SOLUTIONS



Powder Collection Machine BLT-WL200



Powder Sieving Machine BLT-SF400



Powder Adding Machine BLT-GF500

DESCRIPTION BLT-S450 CONSUMABLES AND POWDERS –

Consumable

Powder

Scraper/Substrate

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

[🔘] No.1000 Shanglinyuan Seventh Road, Hi-tech Zone, Xi'an City, Shaanxi Province, P.R.China 710000