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Make Easier Manufacturing
Make a Better World

CE Certification

Laser FDA Safety Registration

ISO9001:2015 / ISO14001:2015 / ISO45001:2018

The system design references ATEX (Explosion Proof) Assessment

Metal Additive Manufacturing System

BLT-S450

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

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)	450mm×450mm×500mm（W×D×H）
Laser Power	500W×4；500W×6；500W×8
Wave Length	1060nm-1080nm
Beam Quality	M^2≤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℃~200℃
Recoating	Single/Double Recoating System
Minimum Oxygen Content	≤100ppm
Gas Requirement	Ar
Power Requirement	≤16kW;≤23W;≤25kW
Supply Voltage	AC380V 3Ph/N/PE
Dimension of the System(3)	3600mm×2950mm×2850mm（W×D×H）
Weight of the System	6000kg
Software	Magics; BLT-BP; BLT-MCS; BLT-Bright PreBuilder



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

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.

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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 Hierarchical Fault Diagnosis/Process Data Traceability/Recoating Detection

Optional Functions Manual Grafting/3D Reconstruction/Video Monitoring/
BLT-MES System/BLT-MCS Connect

BLT-S450 AUTOMATION SOLUTIONS



Powder Collection Machine
BLT-WL200



Powder Sieving Machine
BLT-SF400



Powder Supplying Machine
BLT-GF500

BLT-S450 CONSUMABLES AND POWDERS

Consumable

Recoater/Substrate

Powder

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

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