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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 has passed
ATEX (Explosion Proof) Assessment

Metal Additive Manufacturing System

BLT-S800

Multi-laser and Large-format Pillar System

Selecting Great Component | Stable Full-substrate Printing | Multi-lasers to Build More Efficient | Large-size and High-quality Production | More Valuable after Multiple Tests

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)	800mm×800mm×650mm（W×D×H）
Wave Length	1060nm-1080nm
Laser Power	500W×6; 500W×8; 500W×10
Beam Quality	M^2≤1.1
Optics System	F-theta Lens
Maximum Scanning Speed	7m/s
Layer Thickness	20μm~100μm
Building Speed(2)	150cm³/h ; 200cm³/h; 250cm³/h
Preheating Temperature	RT+20℃~100℃
Recoating	Single/Double-direction
Minimum Oxygen Content	≤100ppm
Gas Requirement	Ar
Power Requirement	≤30kW; ≤33kW; ≤36kW
Supply Voltage	AC380V 3Ph/N/PE
Dimension of the System(3)	5190mm×4500mm×3720mm（W×D×H）
Weight of the System	15000kg
Software	Magics; BLT-BP; BLT-MCS; BLT-Bright PreBuilder



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

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Citations: (1)Including 100mm thickness of substrate. (2)Dependent on part geometry, material and parameter set used.
(3)The height excludes the maintenance guardrail height and the powder circulation system height. 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-S800 APPLICATION CASES



Engine Integration Component

Material: Superalloy
Size: Φ800mm×400mm
Weight: 27kg
Build Time: 175h

Taking areo engines as the basic configuration carrier, the product combines the advantages of additive manufacturing with high flexibility design and the principle of additive manufacturing process adaptability. Through integrated design, it integrates typical complex features such as light-weight, spatial multi-scale structures, special-shaped curved surfaces, flow channel, etc. This product finally realizes the overall preparation of large-size components and partial flexble mobility features.

BLT-S800 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-S800 AUTOMATION SOLUTIONS



Powder Sieving Machine
BLT-SF400



Powder Collection Machine
BLT-WL400



Powder Supplying Machine
BLT-GF500



Powder Circulation System
BLT-XH300

BLT-S800 CONSUMABLES AND POWDERS

Consumable

Recoater/Substrate

Powder

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

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