BLT

Stock Code:688333.SH

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CE Safety Certification

Laser FDA Safety Registration

ISO9001:2015 / ISO14001:2015 / ISO45001:2018

Metal Additive Manufacturing System

BLT-S1000

Constantly Innovating in Metal AM

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

Large Build Dimension
Precision forming of meter-sized parts

Multi-beam Lasers Splicing
The building quality of each area is consistent

Hard Scraper
Fixed layer thickness
Adhere to the quality

Long-life Filtration System
Automatic blowback cleaning
Long filter life

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

3D Reconstruction
Building visualization is easy for quality traceability

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

Supporting Materials	Titanium Alloy, Aluminum Alloy, Superalloy, Stainless Steel, High-strength Steel
Build Dimension(1)	1200mmx600mmx1500mm (W × D × H)
Wave Length	1060nm-1080nm
Laser Power	500WX8; 500WX10; 500WX12
Beam Quality	M^2<1.1
Optics System	F-theta Lens
Maximum Scanning Speed	7m/s
Layer Thickness	20μm~100μm
Building Speed(2)	200cm^3/h; 250cm^3/h; 300cm^3/h
Preheating Temperature	RT+20℃~100℃
Recoating	Single/Double-direction
Minimum Oxygen Content	≤100ppm
Gas Requirement	Ar
Power Requirement	≤30kW; ≤33kW; ≤35kW
Supply Voltage	AC380V 3Ph/N/PE
Dimension of the System(3)	10200mm×6800mm×5190mm (W × D × H)
Weight of the System	Approx. 34000kg
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)Excluding substrate thickness. (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.

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BLT-S1000 APPLICATION CASES

Array Panel

Material: Aluminum Alloy

Dimension: 1125mm×1300mm×20mm (W × D × H)

Weight: 3.5kg

Build Time: 50h

This part is an antenna array panel structure in the satellite application, which adopts a lattice structure for lightweight design, which can achieve a better high-rigidity and light-weight effect than the traditional honeycomb panel structure.

BLT-S1000 INTELLIGENT MODULES

Standard Functions

Diagnosis Fault-grading/Process Data Traceability/Height Self-checking on Parts/ Recoating Detection/3D Reconstruction

Optional Functions

BLT-MCS Connect/BLT-MES System

BLT-S1000 AUTOMATION SOLUTIONS

Powder Sieving Machine
BLT-SF400

Powder Collection Machine
BLT-WL400

Powder Adding Machine
BLT-GF500

Powder Circulation System
BLT-XH500

BLT-S1000 CONSUMABLES AND POWDERS

Consumable

Scraper/Substrate

Powder

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

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