BLT

Stock Code:688333.SH

Make Easier Manufacturing
Make a Better World

CE Safety Certification

Laser FDA Safety Registration

ISO9001:2015 / ISO14001:2015 / ISO45001:2018

The machine has passed ATEX (Explosion Proof) Assessment

Metal Additive Manufacturing Machine

BLT-S400

Batch Production, "Smart" Manufacturing Upgraded

Aerospace Quality Assurance | Stable Full-substrate Printing | High-quality Batch Production | A Variety of Build Dimension Options | Automatic Circulation of Powder

Batch Application Verification
Maturity and stability of machine operation

Multiple Lasers are Optional Two-way Intelligent Powder Feeding
Efficiency increases dramatically

Long-life Filtration System
Safety & Longevity double guarantee

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

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

3D Reconstruction
Building visualization is easy for quality traceability

Supporting Materials	Titanium Alloy, Aluminum Alloy, Superalloy, Stainless Steel, High-strength Steel, Tool Steel
Build Dimension(1)	400mm×300mm×400mm（W×D×H）
Laser Power	500W×2；500W×3；500W×5；500W×6
Wave Length	1060nm-1080nm
Layer Thickness	20μm~100μm
Maximum Scanning Speed	7m/s
Building Speed(2)	50cm³/h; 75cm³/h; 125cm³/h; 150cm³/h
Preheating Temperature	RT+20℃~200℃
Beam Quality	$M^2 \leq 1.1$
Optics System	F-theta Lens
Recoating	Single/Double-direction
Minimum Oxygen Content	≤100ppm
Gas Requirement	Ar/N_2
Power Requirement	≤19kW; ≤20kW; ≤25kW; ≤26kW
Supply Voltage	AC380V 3Ph/N/PE
Machine Dimension(3)	3900mm×1200mm×2200mm（W×D×H） Height of Tri-color Indicator: Approx.410mm
Machine Weight	Approx. 3200kg
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 dimension does not include the height of tri-color indicator and the height is remarked separately. 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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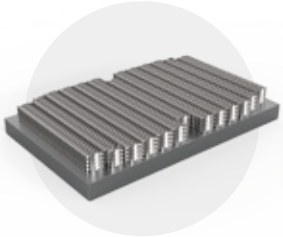
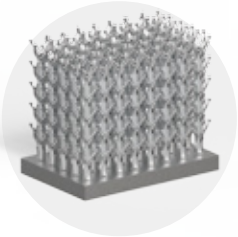
BLT-S400 APPLICATION CASES

Full Substrate Swirler



Full Substrate Steel Sheet

Full Chamber Support Frame



Full Chamber Support

BLT-S400 INTELLIGENT MODULES

Standard Functions

Hierarchical Fault Diagnosis/Real-time Status Monitoring/Process Data Traceability

Optional Functions

BLT-MCS Connect/BLT-MES System/Automatic Grafting /Recoating Detection/Temperature Field Monitor/Video Monitoring

BLT-S400 AUTOMATION SOLUTIONS

Powder Sieving Machine
BLT-SF400

Powder Collection Machine
BLT-WL200

Powder Supplying Machine
BLT-GF500

Depowdering Machine
BLT-QF400

BLT-S400 CONSUMABLES AND POWDERS

Consumable

Scraper/Substrate

Powder

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

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