

Metal Additive Manufacturing System

BLT-S800



CE Safety Certification





ISO9001:2015 / ISO14001:2015 / ISO45001:2018

The Pillar of, "BRIGHT", Dancing with the Lasers

Selecting Great Component Stable Full-substrate Printing

Multi-lasers to Build More Efficient Large-size and High-quality Production More Valuable after Multiple Tests





Dimension
Precision forming
of parts within 800mm



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



Hard Scraper Fixed layer thickness Adhere to the quality



Long-life Filtration SystemAutomatic blowback
cleaning
Long filter life



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

	COLLEGE
Supporting Materials	Titanium Alloy, Aluminum Alloy, Superalloy, Stainless Steel, High-strength Steel, Tool Steel
Build Dimension ⁽¹⁾	800mm×800mm×600mm(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°C~100°C
Recoating	Single/Double-direction
Minimum Oxygen Content	≤100ppm
Gas Requirement	Ar
Power Requirement	≤22kW; ≤25kW; ≤28kW
Supply Voltage	AC380V 3Ph/N/PE
Dimension of the System ⁽³⁾	5700mm×5600mm×4400mm(W × D × H) Height of Tri-color Indicator: Approx.410mm
Weight of the System	Approx. 25200kg
Software	Magics; BLT-BP; BLT-MCS
(3)The dimension do	te thickness. (2)Dependent on part geometry, material and parameter set used. es not include the height of tri-color indicator and the height is remarked separately. The dimension actual data is affected by the configuration, subject to the installation.





LinkedIn

Bright Laser Technologies-BLT



Bright Laser Technologies



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@brightlaser.technologies

(3)The dimension does not include the height of tri-color indicator and the height is remarked separately. The dimension i only theoretical, the actual data is affected by the configuration, subject to the installation.





BLT-S800 APPLICATIONS -



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

Diagnosis Fault-grading/Process Data Traceability/Height Self-checking on Parts/ Powder Spreading Quality Control/3D Reconstruction

Optional Functions

BLT-MCS Connect/BLT-MES System

BLT-S800 AUTOMATION SOLUTIONS



Powder Sieving Machine BLT-SF400



Powder Collection Machine BLT-WL400



Powder Adding Machine BLT-GF500

BLT-S800 CONSUMABLES AND POWDERS

Consumable

Powder

Scraper/Substrate

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