

## Metal Additive Manufacturing Machine

# BLT-S310/S320

Leading the Industry, All-around Flagship

Aerospace Quality Assurance

Stable Full-substrate Printing

Two Optics Configurations

Automatic Circulation of Powder

Uninterrupted Continuous Production



CE Safety Certification



Laser FDA Safety Registration



ATEX (Explosion Proof) Certification



ISO9001:2015 / ISO14001:2015 / ISO45001:2018



**Batch Application Verification**  
Maturity and stability of machine operation



**Two-way Intelligent Powder Spreading**  
Efficiency increases by 60%  
Intelligent powder-saving



**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 to quality traceability

Supporting Materials	Titanium Alloy, Aluminum Alloy, Superalloy, Stainless Steel, High-strength Steel, Tool Steel, Copper Alloy
Build Dimension <sup>(1)</sup>	250mm×250mm×400mm (W × D × H)
Laser Power	500W; 500W×2
Wave Length	1060nm-1080nm
Layer Thickness	20μm~100μm
Maximum Scanning Speed	7m/s
Building Speed <sup>(2)</sup>	25cm <sup>3</sup> /h; 50cm <sup>3</sup> /h
Preheating Temperature	RT +20°C~200°C
Beam Quality	M <sup>2</sup> <1.1
Optics System	F-theta Lens
Recoating	Single/Double-direction
Minimum Oxygen Content	≤100ppm
Gas Requirement	Ar/N <sub>2</sub>
Power Requirement	≤8kW; ≤11kW
Supply Voltage	AC380V 3Ph/N/PE
Machine Dimension <sup>(3)</sup>	3400mm×1200mm×2200mm (W × D × H) Height of Tri-color Indicator: Approx.410mm
Machine Weight	Approx. 2800kg
Software	Magics; BLT-BP; BLT-MCS



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

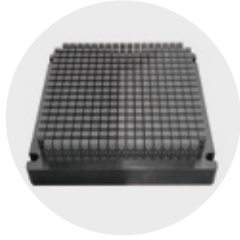
Citations: (1)Excluding substrate thickness. (2)Dependent on part geometry, material and parameter set used.

(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.

## ➤ BLT-S310/S320 APPLICATION CASES



Spinal Fusion Apparatus  
(Exhibit)



Exhaust Nozzle



Impeller Disk



Aviation Joint

## ➤ BLT-S310/S320 INTELLIGENT MODULES

### Standard Functions

Diagnosis Fault-grading/Real-time Status Monitoring/Process Data Traceability/  
Recoating Detection/3D Reconstruction

### Optional Functions

Automatic Grafting/BLT-MCS Connect/BLT-MES System

## ➤ BLT-S310/S320 AUTOMATION SOLUTIONS



Powder Sieving Machine  
BLT-SF400



Powder Collection Machine  
BLT-WL200



Powder Adding Machine  
BLT-GF500



Depowdering Machine  
BLT-QF400

## ➤ BLT-S310/S320 CONSUMABLES AND POWDERS

### Consumable

Scraper/Substrate

### Powder

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