

Metal Additive Manufacturing Machine

BLT-S310/S320



ISO9001:2015 / ISO14001:2015 / ISO45001:2018

Leading the Industry, All-around Flagship

Aerospace Quality Assurance

Stable Full-substrate Printing

Two Optics Configurations

Automatic Circulation of Powder

Uninterrupted Continuous Production



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 ⁽¹⁾	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 ⁽²⁾	25cm ³ /h; 50cm ³ /h
Preheating Temperature	RT +20°C~200°C
Beam Quality	M ² <1.1
Optics System	F-theta Lens
Recoating	Single/Double-direction
Minimum Oxygen Content	≤100ppm
Gas Requirement	Ar/N ₂
Power Requirement	≤8kW; ≤11kW
Supply Voltage	AC380V 3Ph/N/PE
Machine Dimension ⁽³⁾	3400mm×1200mm×2200mm (W × D × H) Height of Tri-color Indicator: Approx.410mm
Machine Weight	Approx. 2800kg
Software	Magics; BLT-BP; BLT-MCS

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.

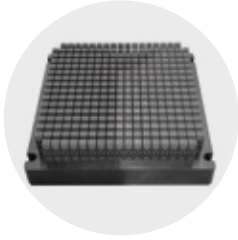


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➤ BLT-S310/S320 APPLICATIONS



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/
Powder Spreading Quality Control/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