

# Metal Additive Manufacturing Machine

# BLT-A300/A320



ISO9001:2015 / ISO14001:2015 / ISO45001:2018

## Continuous and Economic Production

Stable Full-substrate  
Printing

High-accuracy and  
High-quality Production

A Variety of  
Application Scenarios

Four Optics  
Configurations

Low Consumption  
and High Efficiency



**Variable Speed Adaptive  
Powder Spreading**  
Intelligent powder saving &  
printing efficiency UPPING



**Powder-worker Separated  
in the Whole Process**  
Equipped with  
industrial glove box  
Guarantee personnel  
occupational health



**Saving Powder and Gas  
More Economical**  
Significantly lower  
operating costs



**Long-life Filtration System**  
Safety & Longevity  
double guarantee



**BLT-MES System  
Upgraded Available**  
Centralized management  
Intelligent interconnection



**Automatic Grafting  
Upgraded Available**  
Full substrate efficient processing  
Guarantee high precision

Supporting Materials	Titanium Alloy, Aluminum Alloy, Superalloy, Cobalt-chromium Alloy, Stainless Steel, High-strength Steel, Tool Steel, Copper Alloy
Build Dimension <sup>(1)</sup>	250mm×250mm×300mm(W × D × H)
Laser Power	500W/1000W; 500W×2/1000W×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 Variable Speed Recoating System
Minimum Oxygen Content	≤100ppm
Gas Requirement	Ar/N <sub>2</sub>
Power Requirement	≤11kW; ≤12.5kW
Supply Voltage	AC380V 3Ph/N/PE
Machine Dimension <sup>(3)</sup>	2800mm×1200mm×2200mm (W × D × H) Height of Tri-color Indicator: Approx.400mm
Machine Weight	Approx. 2200kg
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.

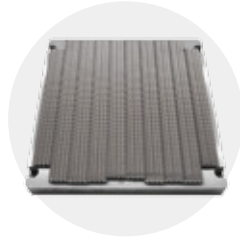
(3)The dimension does not include the height of tri-color indicator and the height is remarked separately. The dimension is only theoretical, the actual data is affected by the configuration, subject to the installation.

\*The data is under the condition of BLT, and the data is subject to actual sales.

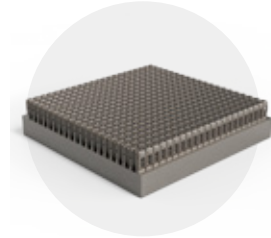
## ➤ BLT-A300/A320 APPLICATION CASES



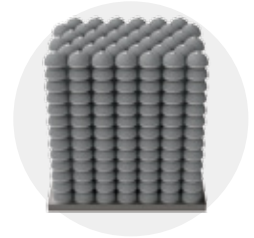
Full Substrate Heating Nozzle



Full Substrate Tire Mold Insert



Full Substrate Spinal Fusion Apparatus (Exhibit)



Full Substrate Acetabular Cup (Exhibit)

## ➤ BLT-A300/A320 INTELLIGENT MODULES

### Standard Functions

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

### Optional Functions

Automatic Grafting/BLT-MES System/Recoating Detection/Smaller Research Platform Module

## ➤ BLT-A300/A320 AUTOMATION SOLUTIONS



Powder Sieving Machine  
BLT-SF400



Powder Collection Machine  
BLT-WL200



Depowdering Machine  
BLT-QF400

## ➤ BLT-A300/A320 CONSUMABLES AND POWDERS

### Consumable

Scraper/Substrate

### Powder

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