bechtle × BLT

Stock Code:688333.SH

Make Easier Manufacturing
Make a Better World

Metal Additive Manufacturing Machine
BLT-S210

CE Certification

Laser FDA Safety Registration

ISO9001:2015 / ISO14001:2015 / ISO45001:2018

The machine design references ATEX (Explosion Proof) Assessment

Brilliant Research Tool for R&D Users

Forming a Variety of Special Materials | R&D Superior Options | Multiple Universities Recognizing | Comprehensive Quality Control | More Customized Solutions

Intelligence Software
Real-time and traceable monitoring

Modular Design
Open Layout
More convenient operation and maintenance

Multiple Safety Interlocking
Safety guarantee for human & machine

The Oxygen Content can be Controlled Below 10ppm
More materials can be formed

Customisable Glove Box
Powder-worker separated
Protect personnel security

Supporting Materials	Titanium Alloy, Aluminum Alloy, Superalloy, Cobalt Chromium Alloy, Tantalum, Silver, Stainless Steel, High-strength Steel, Tool Steel, Copper Alloy, Tungsten Alloy
Build Dimension(1)	160mm×160mm×200mm（W×D×H）
Laser Power	500W; 500W×2
Wave Length	1060nm~1080nm
Layer Thickness	20μm~100μm
Maximum Scanning Speed	7m/s
Building Speed(2)	15cm³/h
Preheating Temperature	RT+20℃~350℃
Beam Quality	$M^2 \leq 1.1$
Optics System	F-theta Lens
Recoating	Single-direction Variable-speed Recoating
Minimum Oxygen Content	≤100ppm
Gas Requirement	Ar/N_2
Power Requirement	≤5kW; ≤7.5kW
Supply Voltage	AC220V 1Ph/N/PE
Machine Dimension(3)	1110mm×910mm×1810mm（W×D×H） Height of Tri-color Indicator:Approx.380mm
Machine Weight	840kg
Software	Magics; BLT-BP; BLT-MCS; BLT-Bright PreBuilder



*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-S210 APPLICATIONS



Tianium Alloy
Flexible Structure



Co-Cr-Mo Alloy
Femoral Condyle（Exhibit）



Tantalum Alloy
Acetabular Cup（Exhibit）



Copper Seal



Silver Dragon
Seal

BLT-S210 INTELLIGENT MODULES

Standard Functions

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

Optional Functions

Smaller Research Platform/Recoating Detection/ Temperature Field Monitor/
3D Reconstruction/Video Monitoring/BLT-MCS Connect/Upgraded Laser Power Solution

BLT-S210 CONSUMABLES AND POWDERS

Consumable

Recoater/Substrate
/Filter Element

Powder

Titanium Alloy/Aluminum Alloy/Superalloy/Cobalt Chromium Alloy/Tantalum/
Silver/Stainless Steel/High-strength Steel/Tool Steel/Copper Alloy/Tungsten Alloy

UNIVERSITIES WHO CHOSE BLT-S210

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