

Make Manufacturing Easier  
Make a Better World

BLT's Vision To Become the World's  
Leading AM Technologies Solutions Provider



Stock Code: 688333.SH

Xi'an Bright Laser Technologies Co., Ltd.

[www.goengineer.com](http://www.goengineer.com)

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# BLT's Mission & Vision

## Mission

Make Manufacturing Easier. Make a Better World

Additive manufacturing enables the production of complex structures and allows for functional integration.

Additive manufacturing eliminates the need for tooling, simplifying manufacturing processes.

Additive manufacturing allows materials to be distributed on demand in space, reducing material waste.

Additive manufacturing consumes less energy and is more environmentally friendly.

Additive manufacturing equipment is highly automated, significantly reducing labor costs.

Additive manufacturing makes production modes smarter, and management more convenient and efficient.

## Vision

To Become the World's Leading AM Technologies  
Solutions Provider

## Core Values

Achieve Customer Success, Create Values

Integrity, Dedication, Striving for Innovation, Enthusiasm, and Perseverance

Put the Strivers First, Adhere to Hard Work

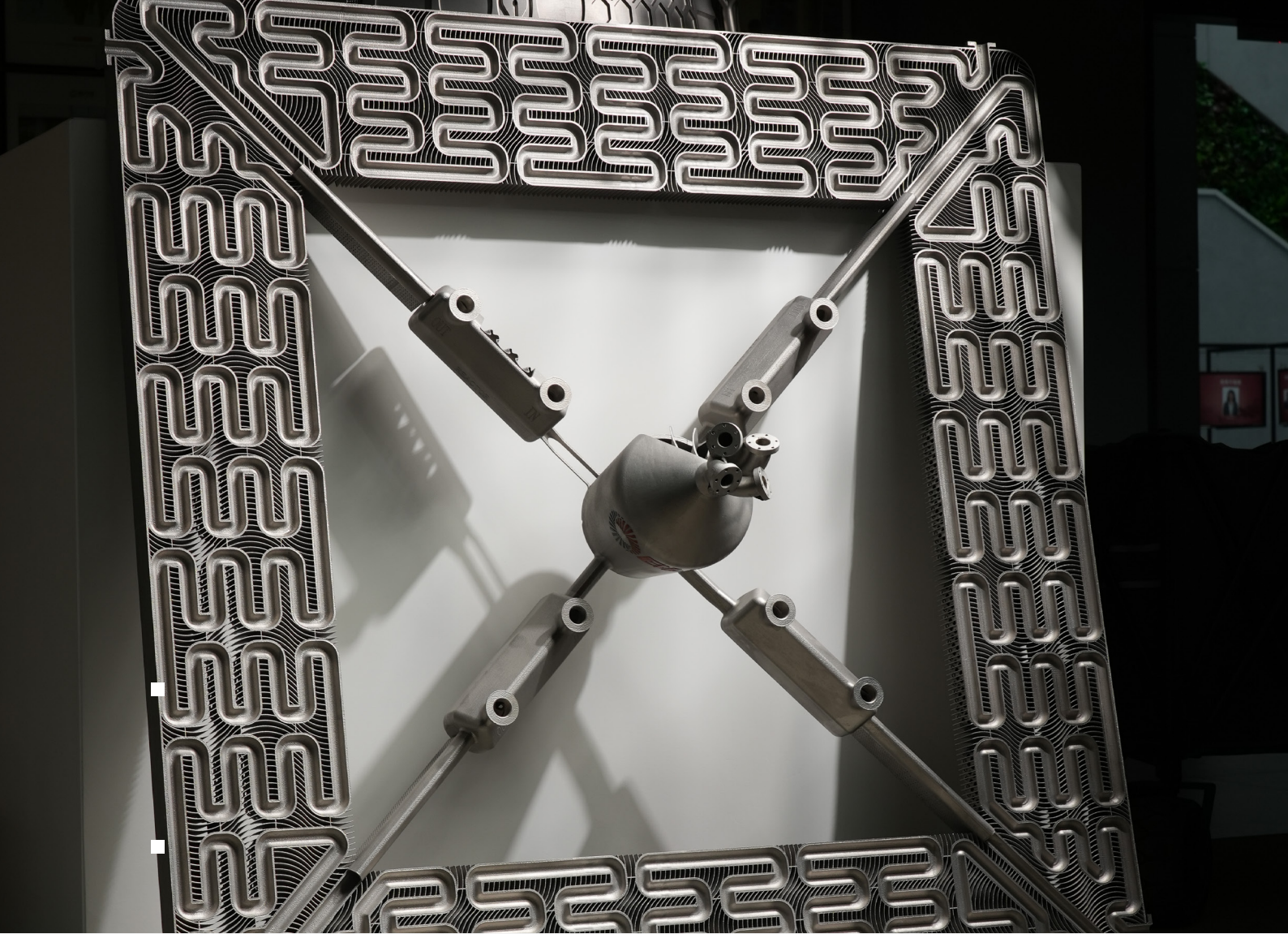




## BLT's Profile 02



Xi'an Bright Laser Technologies Co., Ltd. (BLT) founded in July 2011, is a leading supplier of integrated metal additive manufacturing solutions in China. On July 22nd, 2019, BLT was listed on the STAR Market with stock code of 688333. SH. By the end of June 2025, the number of employees was about 3,400, R&D accounted for 30% of the total workforce. BLT values a lot on R&D, the investment accounted for about 20% of operating income for three consecutive years. Bright Laser Technologies can provide a complete solution for metal AM and repair for customers, including customized products, machines and systems, raw materials, software and technical service. BLT has extensive experience in metal AM, delivering innovative solutions across diverse industries such as Aviation, Aerospace, energy, medical and dental, mold, automotive, consumer electronics, university research, vocational education, cultural and creative industry and so on.



## Core Team

The company has established an R&D and quality management system led by the Chairman and General Manager, with the Chief Engineer and Deputy General Managers jointly overseeing responsibilities.

In R&D, a comprehensive metal additive manufacturing technology development matrix has been formed, covering over ten research directions. This matrix fundamentally encompasses all technical R&D and engineering applications related to metal additive manufacturing, with process technologies, equipment, and powder products reaching internationally advanced levels.

The quality management system is supported by a highly skilled and experienced professional team. It rigorously implements standardized processes across the entire value chain—encompassing equipment, products, powders, and technical services—with the quality team operating independently to achieve closed-loop control throughout the entire process.

## R&D Capabilities

As of June 30, 2025

The company has filed a cumulative total of 683 patent applications, with 413 valid authorized patents.

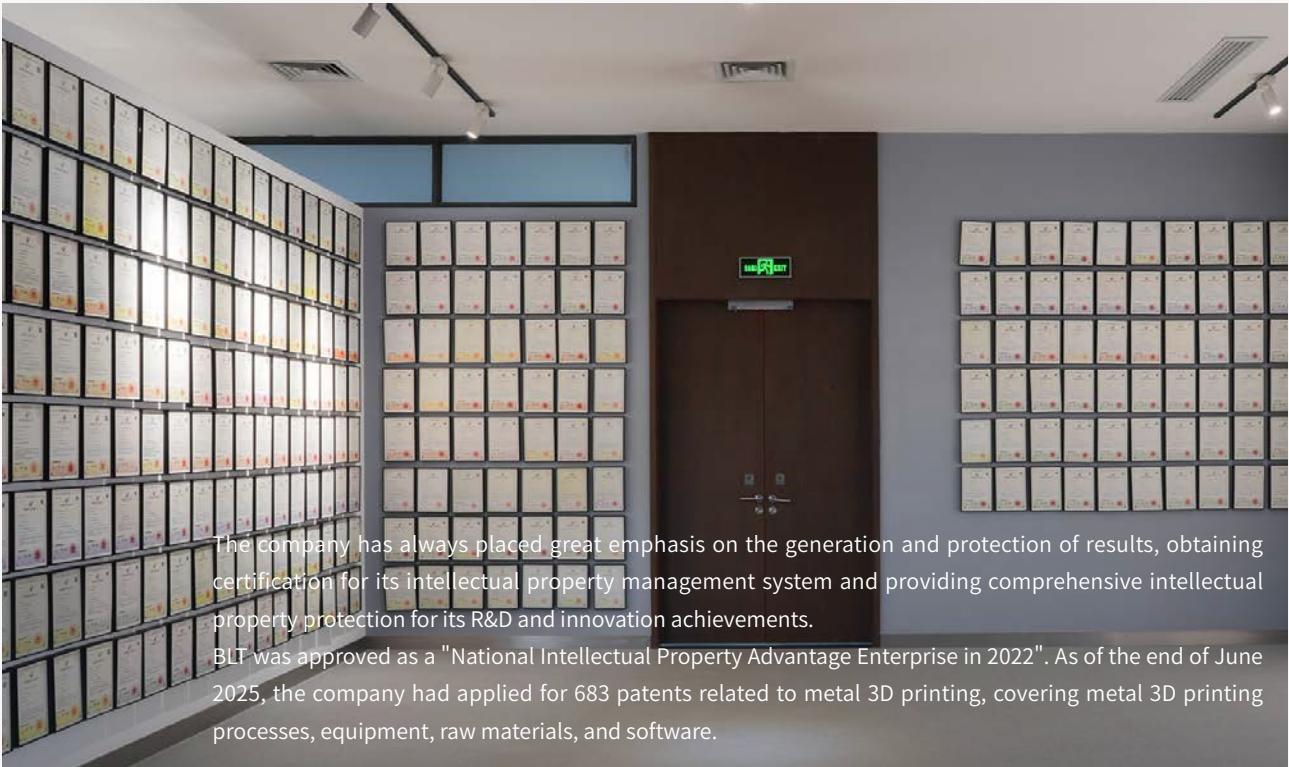
Total R&D investment reached RMB 125.3393 million, accounting for 18.79% of operating revenue.

## Qualifications and Honors

- National High-tech Enterprise
- National Enterprise Technology Center
- National & Local Joint Engineering Research Center for Metal Additive Manufacturing
- National Green Factory
- National Intellectual Property Advantage Enterprise
- National 'Thousand Enterprises, Hundred Cities' Trademark Brand Value Enhancement Initiative
- Shaanxi Provincial Technological Innovation Demonstration Enterprise
- Provincial Service-Oriented Manufacturing Demonstration Enterprise
- Shaanxi Provincial Exemplary Demonstration Enterprise for Industrialisation and Informatisation Integration
- Shaanxi Provincial Pilot Demonstration Enterprise for Intelligent Manufacturing
- Shaanxi Provincial Advanced-Level Smart Factory
- Undertaking multiple major national projects including the National Key R&D Programme and the Ministry of Industry and Information Technology Special Programme
  
- In 2024, the Shenzhen subsidiary was recognised as a Shenzhen 'Specialised, Refined, Distinctive and Innovative' SME



## Intellectual Property



## Quality Certification



ISO 9001:2015, AS 9100D/EN 9100:2018 Quality Management System Certification



ISO 14001:2015, ISO 45001:2018 Environmental, Occupational Health and Safety Management System Certification



CNAS Accreditation



Four Nadcap accreditations



SCS Kingfisher Certification



ISO 13485 Medical Device Quality Management System Certification

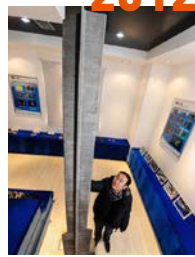
# Development History

**2011**



Xi'an Bright Laser Technologies Co., Ltd. was established.

**2012**



BLT established an independent R&D team, with the R&D directions including metal 3D printing processes, materials, machines and systems, etc.

The "Laser 3D Printing Technology and National C919 Aircraft Complex Titanium Alloy Component Manufacturing" Project was funded by the National Major Transformation of Scientific and Technological Achievement Project.

**2014**



BLT's PBF-LB/M metal 3D printer BLT-S300 first showed at AIRSHOW CHINA 2014.

**2018**



BLT's modernized and intelligent research and production base in Xi'an Hightech Zone has been put into use.

BLT signed a joint R&D agreement with AIRBUS on metal AM. BLT brand metal 3D printing machines and systems were exported to Germany.

**2019**



BLT made its initial public offering on the STAR Market, with the stock code 688333.SH.

**2020**



South China Application R&D Center was officially launched. BLT became the only designated 3D printing equipment sponsor of the additive manufacturing project of the first National Vocational Skills Competition.

**2024**

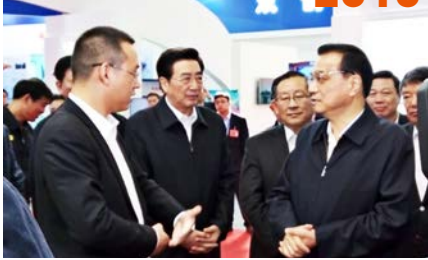


BLT's "Metal Additive Manufacturing Largescale Intelligent Production Base" project (BLT Phase IV Construction Project) plot E has completed and entered the stage of machines and systems installation and commissioning.

BLT's "Big Data Deep Application Project for Full-process High-autonomy Additive Manufacturing in the Serial Production Era" was awarded the MIIT Industrial Internet + Big Data Pilot Demonstration Project.

BLT has once again secured a key work package from Airbus, marking a comprehensive and deepened phase of cooperation with Airbus.

**2015**



The representatives from BLT were cordially received by then Premier Li Keqiang at 2015 Mass Entrepreneurship and Innovation Week. BLT PBF-LB/M machines and systems stepped into the market.

**2016**



BLT's independently developed machines and systems cover various printing methods and printing processes such as laser melting, laser repair, double lasers, and four lasers. BLT made breakthrough in tungsten alloy and copper alloy printing technology.

**2017**



The "Metal Additive Manufacturing Intelligent Factory" project was awarded the "MIIT Intelligent Manufacturing Pilot Demonstration Project".

**2021**



BLT "Metal Additive Manufacturing Intelligent Factory" project (Phase II) has been put into use in 2021.

**2022**



BLT "Metal Additive Manufacturing Industry Innovation Capacity Building" project (BLT Phase III Construction Project) was officially started. BLT (Shanghai) Company was orderly prepared before the opening and BLT (Europe) Company was established in an orderly manner.

**2023**



BLT "Metal Additive Manufacturing Large-scale Intelligent Production Base" project (BLT Phase IV Construction Project) was officially launched. BLT (Shanghai) Company & East China Application R&D Center were officially opened, and BLT (Europe) Company was officially put into operation.

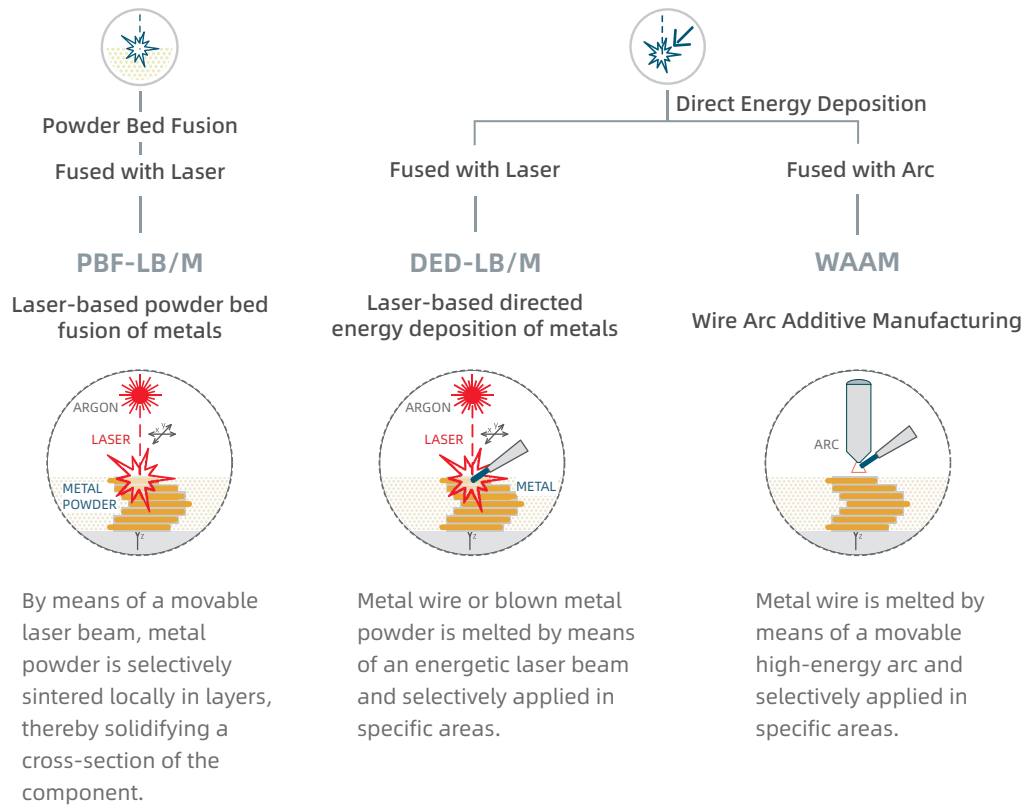
**2025**



BLT "Metal Additive Manufacturing Large-scale Intelligent Production Base" project (Phase IV) has officially commenced construction on Plot F. For Plot C of BLT "Metal Additive Manufacturing Industry Innovation Capacity Building" project (Phase III), the main structure of some factory buildings has been completed, and the project has officially entered the equipment installation and commissioning stage. The "Additive Manufacturing Dedicated Powder Line Construction Project" (BLT's Fengxi Factory) has officially commenced construction.

# Main Business 03

## BLT's three main metal 3D printing technologies



The technical terms used in this document are based on "EN ISO/ASTM 52926 Additive Manufacturing of metals - Qualification principles".



## Metal AM Machines and Systems

3 processes, over 30 models;  
Maximum build dimension of 2500mm in one direction  
Up to 26 lasers



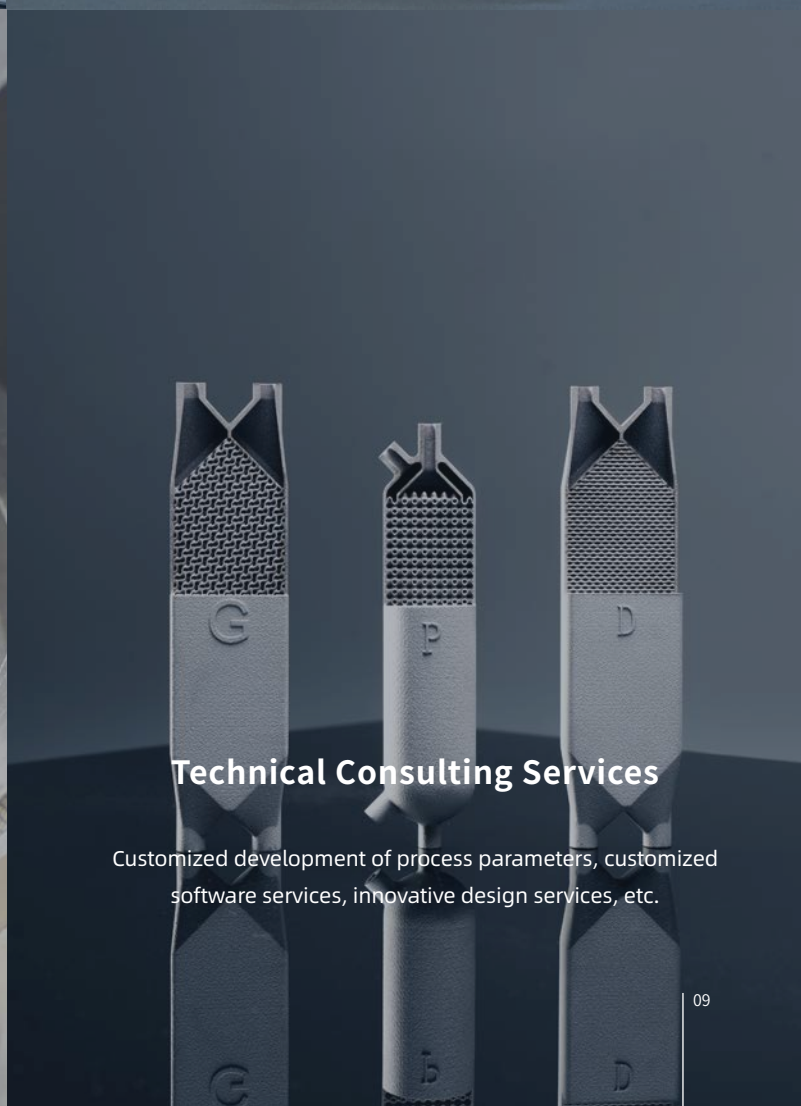
## Customized Products

Nearly 500 AM printers, over 80 formable materials; users spread across aerospace, aviation, engines, rail transit, automotive, molds, medical, and smart hardware sectors.



## Raw Materials - Powders

International standard high-quality titanium and titanium alloys, also covering superalloys, aluminum alloys, stainless steel, cobalt-chromium alloys, etc.



## Technical Consulting Services

Customized development of process parameters, customized software services, innovative design services, etc.

# Customized Product Business 04

BLT Intelligent Manufacturing Factory won the "Intelligent Manufacturing Demonstration Pilot Project" of the Ministry of Industry and Information in 2017.

At the beginning of 2023, the company was selected as the "Green Factory of the Year 2022", and in 2023, BLT's "Full-process High Autonomy Additive Manufacturing Big Data Deep Application in the Era of Serial Production" was honored as one of the top ten pilot demonstration projects of the Industrial Internet.

## Lightweight Structure

Through structural optimisation design, weight reduction of components is maximised whilst ensuring product performance. Weight reduction is typically achieved using topology optimisation or employing conventional weight-reduction structures.



## Rapid Mass Customized Production

Enabling personalized customization of complex structures and facilitating rapid small-batch production of finalised customised products, thereby efficiently meeting the production demands for small quantities and diverse product categories.



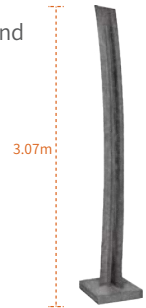
## Functional Integration

Integrating functional consolidation across multiple components enables reductions in part count, shortening of manufacturing, assembly and inspection processes, lowering of quality risks, weight reduction, and improvement in reliability.



## Shortened Development Cycle

By eliminating the need for tooling, single-piece and small-batch components can be rapidly manufactured, thus shortening the development cycle from design to delivery and accelerating iteration.



## Modular Manufacturing

It supports the development of large-scale, multi-functional, highly integrated products. It facilitates the rapid prototyping of complex structural components, improves dimensional consistency and surface quality, and achieves performance enhancements and cost optimization for parts.



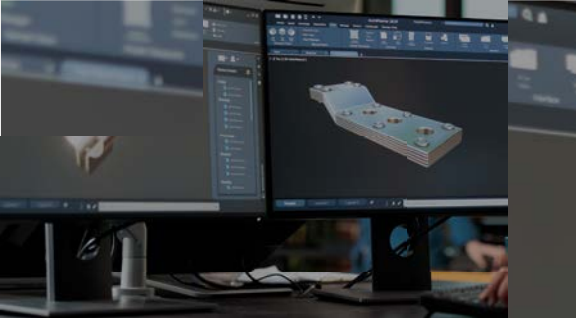
## Repair and Remanufacturing

For processing defects in the production process, or wear and tear during service, BLT chooses to repair and remanufacture. The purpose is to restore geometric properties of products, reduce the cost and energy consumption.



# One-stop Customised Product Solutions

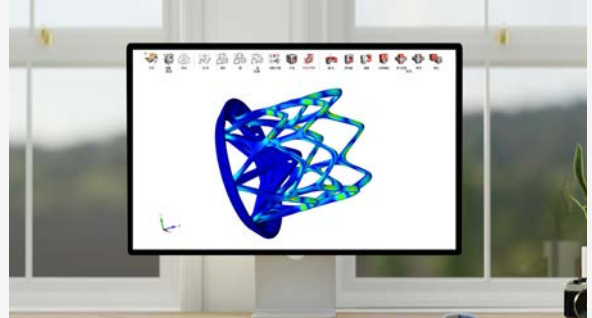
01



## Model Evaluation

Specialising in the industrial sector, providing clients with models and model evaluations.

02



## Optimisation Design

Extensive research and application utilising additive manufacturing technology

- Additive Manufacturing Design
- Function-first Design
- Lightweight, Integrated Design
- Cost Control and Standardised Design
- Stress Control Design for AM
- Maturity Assessment of Typical Characteristics
- Components and Risk Identification

03



## Printing Process

The BLT Smart Manufacturing Facility houses over 4,600 lasers, capable of processing more than 80 types of materials, with compositions meeting aerospace standards.

- Machines and systems for PBF-LB/M (Laser-Based Powder Bed Fusion of Metals)

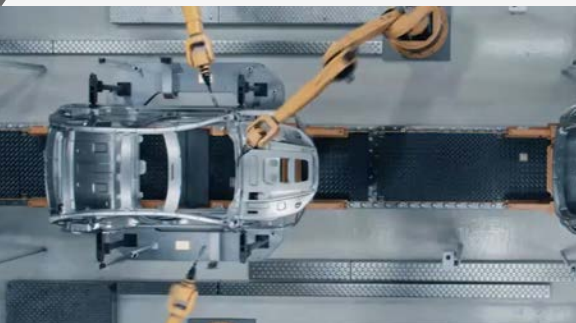
04



## Heat Treatment

Configured with a large-scale hot isostatic pressing system, it can comprehensively meet the processing demands of large and complex components. This enables control over the internal microstructure of materials, providing reliable high-density treatment for various materials.

05



## Post-Processing

Equipped with a complete range of CNC equipment, including multi-axis machining centers and large-scale gantry machines. The small and medium-format multi-axis machines can achieve a machining accuracy of  $\pm 0.007\text{mm}$ , while the large-format systems can reach  $\pm 0.01\text{mm}$ .

06



## Inspection & Testing

BLT Testing Centre offers comprehensive testing services

- Chemical composition analysis
- Mechanical property testing
- Physical property testing
- Microstructure
- Geometric measurement
- Non-destructive testing



## Nearly 30,000-square-meter Intelligent Manufacturing Production Base for Customized Products

BLT possesses three core processes: PBF-LB/M (Laser-Based Powder Bed Fusion of Metals), DED-LB/M (Directed Energy Deposition-Laser Beam for Metals), and WAAM (Wire Arc Additive Manufacturing). BLT's in-house PBF-LB/M machines and systems feature more than 4,600 lasers. Additionally, the company operates nearly 80 WAAM additive manufacturing units and owns approximately 150 related analytical and testing devices.

## Over 80 Formable Material Grades

<p><b>Titanium and Titanium Alloy</b></p> <p>Ti-6Al-4V Grade5, Ti-6Al-4V Grade 23, Cp-Ti Grade1, Ti-6Al-1.5Cr-2.5Mo-0.5Fe-0.3Si, Ti-6.5Al-3.5Mo-1.5Zr-0.3Si, Ti-5Al-2Sn-2Zr-4Mo-4Cr, Ti-5Al-4.75Mo-4.75V-1Cr-1Fe, Ti-6Al-2Mo-2Nb-2Zr-2Sn-1.5Cr, Ti-6.5Al-1Mo-1V-2Zr, Ti-5.8Al-4Sn-3.5Zr-0.4Mo-0.4Si-0.4Nb-1Ta-0.06C, Ti-6Al-2Sn-4Zr-2Mo-0.08Si, Ti-6Al-2.8Sn-4Zr-0.5Mo-0.4Si-0.1Y, Ti-22Al-25Nb, Ti-5.9Al-4Sn-3.5Zr-0.3Mo-0.4Si-0.3Nb-2Ta-1W-0.05C, Ti-48Al-2Nb-2Cr, TiAl1, Ti-5.8Al-4.0Sn-3.5Zr-0.7Nb-0.5Mo-0.3Si, Ti-3Al-1Mo-0.6Ni-1Zr, Ti-5Al-2.5Sn, Ti-25V-15Cr-0.25Si, Ti6Al7Nb</p>	<p><b>Aluminum Alloy</b></p> <p>AlSi10Mg, AlSi7Mg, AlMgScZr, AlAM300, AlAM300C, AlAM400, AlAM500</p>	<p><b>Copper and Copper Alloy</b></p> <p>Cu, CuCrZr, CuSn10</p>	<p><b>High-strength Steel</b></p> <p>AerMet 100, 300M, 30CrMnSiA, 40CrMnSiMoVA, 15-5PH, 17-4PH, PH13-8Mo</p>	<p><b>Functional Materials</b></p> <p>Invar32, Invar36 Magnetic material</p>
<p><b>Stainless Steel</b></p> <p>304L, 316L, 321, 2Cr13</p>	<p><b>Superalloy</b></p> <p>Haynes188(USA), Haynes230(USA), HastelloyX(USA), Inconel 625(USA), IN713, Inconel 718(USA), IN738, IN939, CoCrW, CoCrMo, GH4099,</p>	<p><b>Tool Steel</b></p> <p>H13, 18Ni300, CX, 420, GAM100</p>	<p><b>Pure Tungsten</b></p> <p>Pure Tungsten</p>	<p><b>Tantalum Alloy</b></p> <p>Ta10W</p>

## Professional Test Center

Primarily involved in the testing of metal materials chemical composition, mechanical property, physical property, microstructure, geometric measurement, nondestructive testing and so on.

The main testing equipment in the testing center include:

Material Chemical Composition Testing, Microstructure Testing, Material Mechanical Property Testing, Geometric Measurement Testing, Nondestructive Testing and so on.

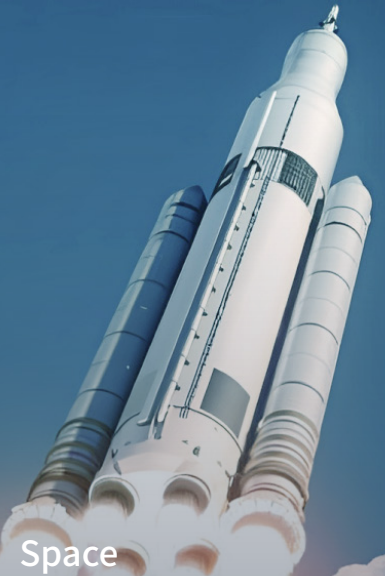


## Application Field



### Aviation

Airframe structural components, aircraft accessories, engines parts, engine control parts



### Space

Rocket, satellite, and so on

### Automotive

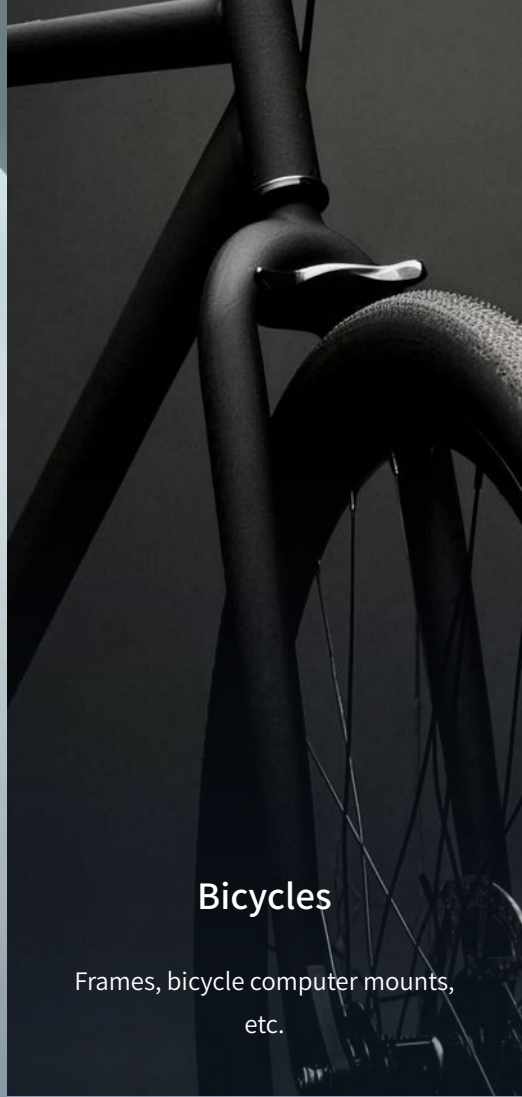
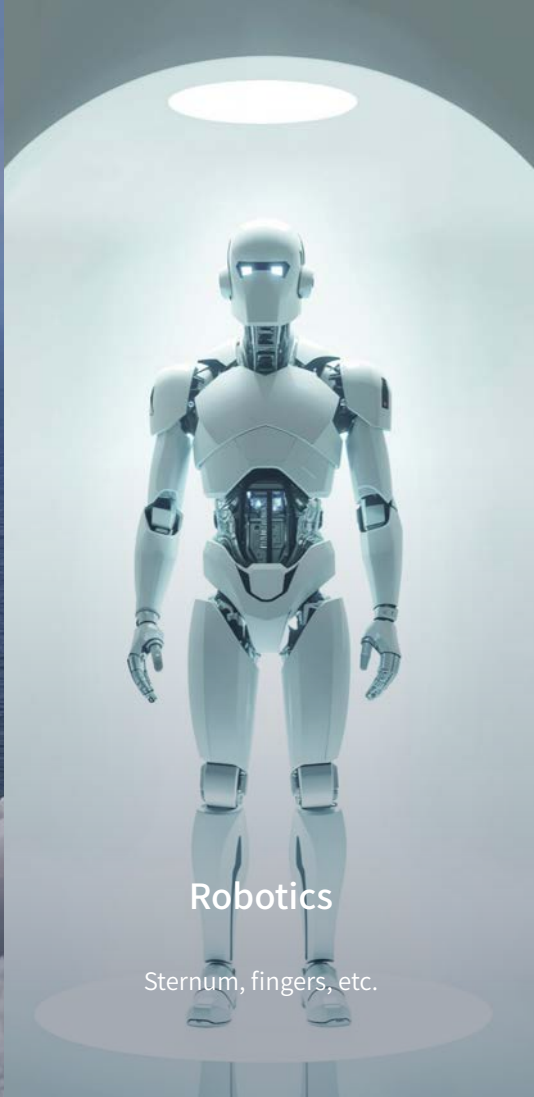
Wheel hub, rocker arm, steering knuckle, tire mold, piston, cylinder head, exhaust manifold, intake manifold

### Mold

Tire mold, water channel mold, blow molding bottle mold

### Electronics

Radar parts, communication parts, semiconductors, mobile phone fixture, HDMI port



### Commercial Aerospace

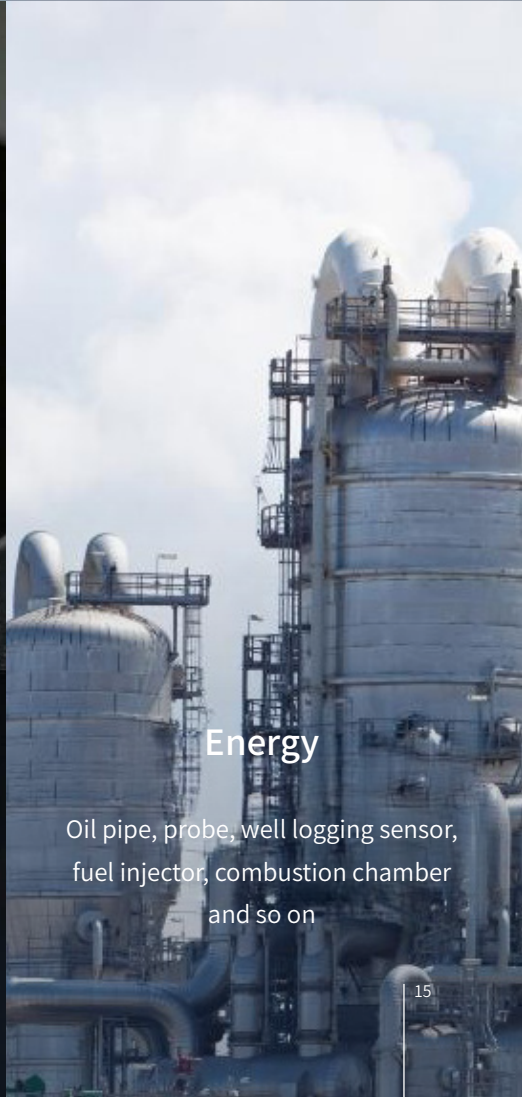
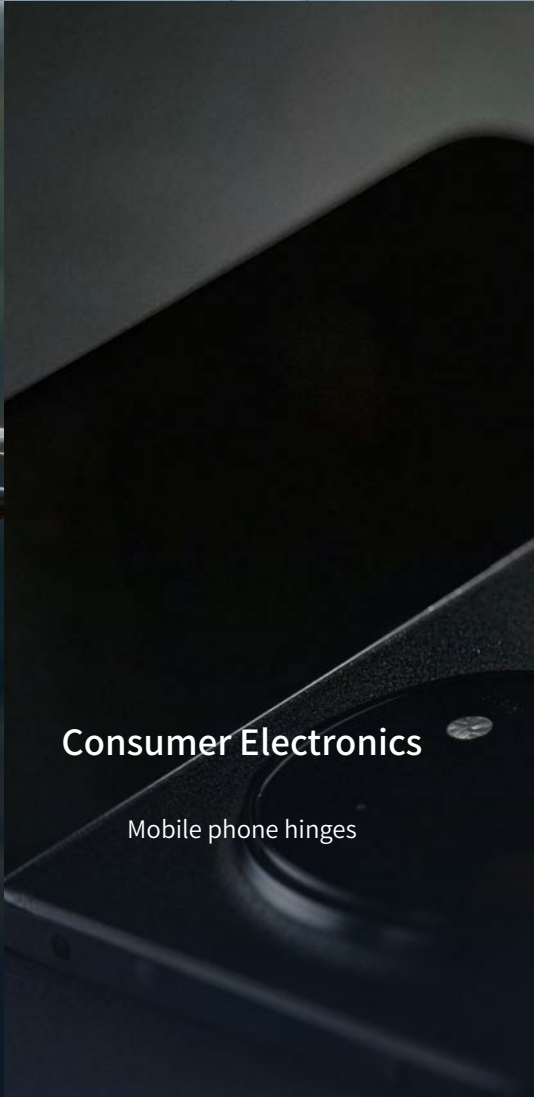
Satellites, rockets, cubesat  
deployers, etc.

### Robotics

Sternum, fingers, etc.

### Bicycles

Frames, bicycle computer mounts,  
etc.



### Low-Altitude Economy

Drone components, new engine  
components, etc.

### Consumer Electronics

Mobile phone hinges

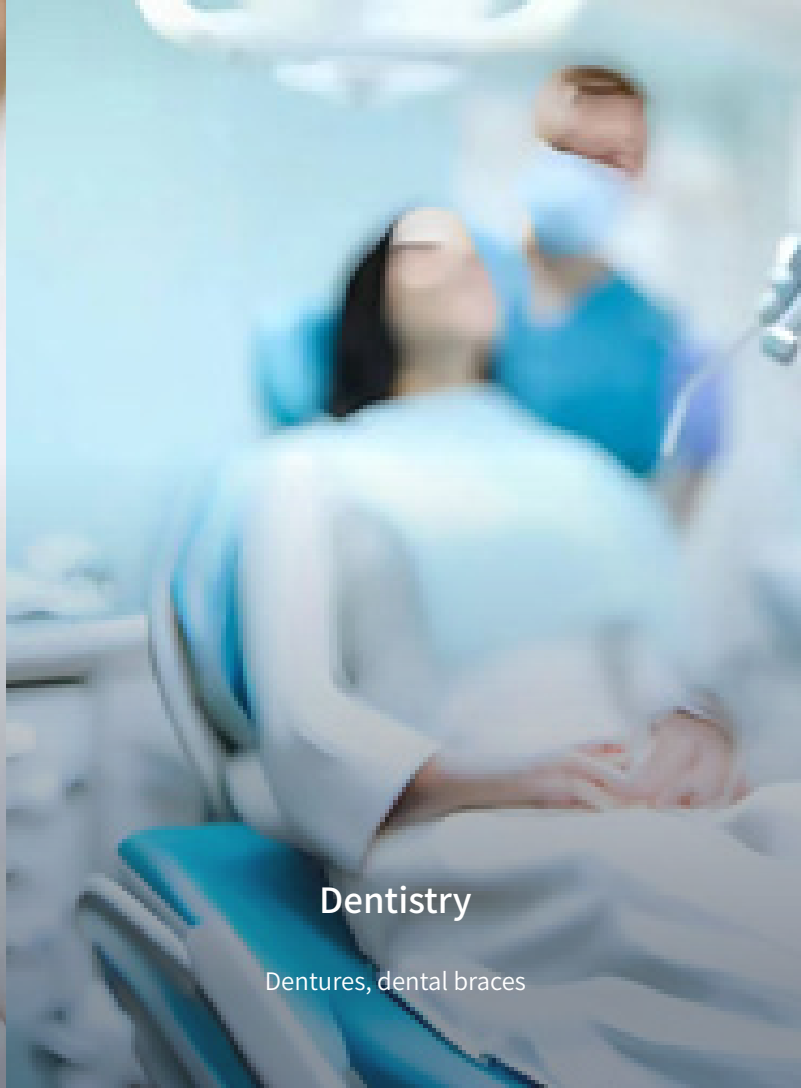
### Energy

Oil pipe, probe, well logging sensor,  
fuel injector, combustion chamber  
and so on



## Medical

Medical scientific research experiments, implants



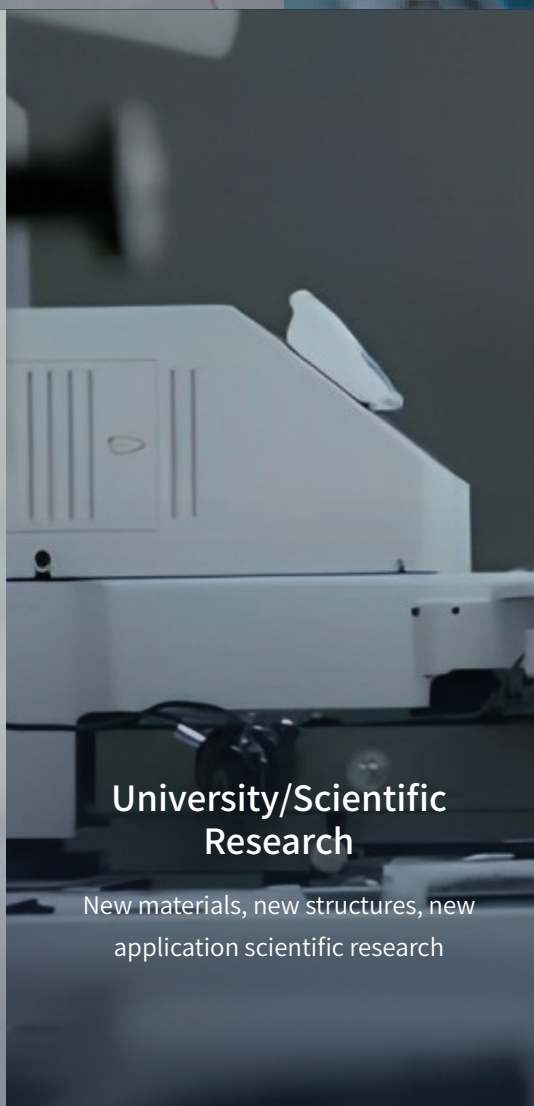
## Dentistry

Dentures, dental braces



## Cultural and Creative Industry

Seals, bottle openers, pens, architectural models



## University/Scientific Research

New materials, new structures, new application scientific research



## Professional Education

Professional skills training

# Software and Hardware Products 05



BLT has established a technological landscape that deeply integrates "fully autonomous hardware" with a "comprehensive software ecosystem", forming an autonomous and controllable advanced manufacturing solution that provides a solid foundation for the comprehensive enhancement of customer value.

## A comprehensive hardware-software solution centered around machines and systems

Product design, development solutions (optional solutions);

Machines and systems;

Process solutions;

A closed-loop software package covering the entire additive manufacturing production process (partially optional);

Powder circulation system;

Production line management solutions;

Consumables;

Raw materials compatible with product solutions;

Machine & system usage training and related software training, etc.



## BLT-S1500

Metal Additive Manufacturing System  
(PBF-LB/M)



ISO9001:2015 / ISO14001:2015 / ISO45001:2018

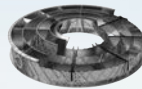
The system design references  
ATEX (Explosion Proof) Assessment

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

### Application Industries

Aviation, Aerospace, Engine, Petroleum and Power Engineering, Automotive

### Application Cases



Intermediate Compressor Case

### BLT-S1500 Parameter

Supporting Materials	Titanium Alloy, Aluminum Alloy, Superalloy, Stainless Steel, High-strength Steel
Build Dimension <sup>(1)</sup>	1500mm×1500mm×1200mm (W×D×H) 1500mm×1500mm×1500mm (W×D×H)
Laser Power	500W×18; 500W×26
Wave Length	1060nm~1080nm
Beam Quality	M <sup>2</sup> ≤ 1.1
Optical System	F-theta Lens
Maximum Scanning Speed	7m/s
Layer Thickness	20μm ~100μm
Building Speed <sup>(2)</sup>	620cm <sup>3</sup> /h; 900cm <sup>3</sup> /h
Recoating	Single/Double-direction
Minimum Oxygen Content	≤ 100ppm
Gas Requirement	Ar
Working Argon Consumption	10~15L/min@0.3MPa
Maximum Power Requirement <sup>(3)</sup>	103KW; 115KW
Preheating Temperature	RT+20°C ~100°C
Supply Voltage	AC380V 3Ph/N/PE
Dimension of the System <sup>(4)</sup>	8830mm×6950mm×6310mm (W×D×H) * (1200mm Height) 8830mm×6950mm×6840mm (W×D×H) * (1500mm Height)
Weight of the System	62000kg
Software	Magics; BLT-BP; BLT-MCS

Citations: (1) Including 200mm thickness of substrate. (2) Dependent on part geometry, material and parameter set used. (3) System only, without powder circulation system. (4) The height does not include the height of the maintenance guardrail and the powder circulation system height. 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-S1300

Metal Additive Manufacturing System  
(PBF-LB/M)



Laser FDA Safety  
Registration



ISO9001:2015 / ISO14001:2015 / ISO45001:2018

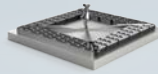
The system design references  
ATEX (Explosion Proof) Assessment

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

### Application Industries

Aviation, Aerospace, Engine, Petroleum and Power  
Engineering, Automotive

### Application Cases



All-in-one Hybrid Radiator

### BLT-S1300 Parameter

Supporting Materials	Titanium Alloy, Aluminum Alloy, Superalloy, Stainless Steel, High-strength Steel
Build Dimension <sup>(1)</sup>	1300mm×1300mm×1500mm (W×D×H)
Wave Length	1060nm~1080nm
Laser Power	500W×18; 500W×26
Beam Quality	M <sup>2</sup> ≤ 1.1
Optical System	F-theta Lens
Maximum Scanning Speed	7m/s
Layer Thickness	20μm ~100μm
Building Speed <sup>(2)</sup>	620cm <sup>3</sup> /h; 900cm <sup>3</sup> /h
Recoating	Single/Double-direction
Minimum Oxygen Content	≤ 100ppm
Gas Requirement	Ar
Working Argon Consumption	10~15L/min@0.3MPa
Maximum Power Requirement <sup>(3)</sup>	103KW; 113KW
Preheating Temperature	RT+20°C ~100°C
Supply Voltage	AC380V 3Ph/N/PE
Dimension of the System <sup>(4)</sup>	8740mm×6780mm×6900mm (W×D×H)
Weight of the System	54000kg
Software	BLT-MCS Connect; BLT-MES

Citations: (1) Including 150mm thickness of substrate. (2) Dependent on part geometry, material and parameter set used. (3) System only, without powder circulation system. (4) The height does not include the height of the maintenance guardrail and the powder circulation system height. 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-S1025

Metal Additive Manufacturing System  
(PBF-LB/M)



Laser FDA Safety  
Registration



ISO9001:2015 / ISO14001:2015 / ISO45001:2018

The system design references  
ATEX (Explosion Proof) Assessment and CE  
Certification

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

### Application Industries

Aviation, Aerospace, Engine, Petroleum and Power  
Engineering, Automotive

### Application Cases



Aircraft Model

### BLT-S1025 Parameter

Supporting Materials	Titanium Alloy, Aluminum Alloy, Superalloy, Stainless Steel, High-strength Steel
Build Dimension <sup>(1)</sup>	1200mm×600mm×2500mm (W×D×H)
Wave Length	1060nm~1080nm
Laser Power	500W×32
Beam Quality	$M^2 \leq 1.1$
Optical System	F-theta Lens
Maximum Scanning Speed	7m/s
Layer Thickness	20μm~100μm
Building Speed <sup>(2)</sup>	1070cm <sup>3</sup> /h
Preheating Temperature	RT+20°C ~100°C
Recoating	Single/Double-direction
Minimum Oxygen Content	≤ 100ppm
Gas Requirement	Ar
Power Requirement	≤ 92kW
Supply Voltage	AC380V 3Ph/N/PE
Dimension of the System <sup>(3)</sup>	8970mm×6160mm×6970mm (W × D × H)
Weight of the System	54100kg
Software	Magics; BLT-BP; BLT-MCS

Citations: (1) Including 170 mm thickness of substrate; (2) Dependent on part geometry, material and parameter set used.3) Highest point of the system transfer station, excluding the height of the guardrail at the top of the build chamber.

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



## BLT-S1000

Metal Additive Manufacturing System  
(PBF-LB/M)



CE  
Certification



Laser FDA Safety  
Registration



ISO9001:2015 / ISO14001:2015 / ISO45001:2018

The system has passed  
ATEX (Explosion Proof) Assessment.

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

### Application Industries

Aviation, Aerospace, Engine, Petroleum and Power  
Engineering, Automotive

### Application Cases



Array Panel

### BLT-S1000 Parameter

Supporting Materials	Titanium Alloy, Aluminum Alloy, Superalloy, Stainless Steel, High-strength Steel
Build Dimension <sup>(1)</sup>	1200mm×600mm×1500mm (W×D×H)
Wave Length	1060nm~1080nm
Laser Power	500W×8; 500W×10; 500W×12
Beam Quality	M <sup>2</sup> < 1.1
Optical System	F-theta Lens
Maximum Scanning Speed	7m/s
Layer Thickness	20μm~100μm
Building Speed <sup>(2)</sup>	200cm <sup>3</sup> /h; 250cm <sup>3</sup> /h; 300cm <sup>3</sup> /h
Preheating Temperature	RT+20°C ~100°C
Recoating	Single/Double-direction
Minimum Oxygen Content	≤ 100ppm
Gas Requirement	Ar
Power Requirement	≤ 30kW; ≤ 33kW; ≤ 35kW
Supply Voltage	AC380V 3Ph/N/PE
Dimension of the System <sup>(3)</sup>	10100mm×4800mm×5000mm (W×D×H)
Weight of the System	32500kg
Software	Magics; BLT-BP; BLT-MCS; BLT-Bright PreBuilder

Citations: (1)Excluding 170mm substrate thickness. (2)Dependent on part geometry, material and parameter set used. (3)The height does not include the height of the maintenance guardrail and the powder circulation system height. 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-S800/S815/S825 Series

Metal Additive Manufacturing System  
(PBF-LB/M)



CE  
Certification



Laser FDA Safety  
Registration



ISO9001:2015 / ISO14001:2015 / ISO45001:2018

The machine has passed  
ATEX (Explosion Proof) Assessment

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

### Application Industries

Aviation, Aerospace, Engine, Medical, Automotive,  
Electronics, Mold, Scientific Research

### Application Cases



Engine Integration  
Component



Pitch Frame



Rear Subframe

### BLT-S800/S815/S825 Series Parameter

Supporting Materials	Titanium Alloy, Aluminum Alloy, Superalloy, Stainless Steel, High-strength Steel, Tool Steel
Build Dimension <sup>(1)</sup>	800mm×800mm×650mm (W×D×H) 800mm×800mm×1500mm (W×D×H) 850mm×850mm×2500mm (W×D×H)
Wave Length	1060nm~1080nm
Laser Power	500W×6; 500W×8; 500W×10; 500W×20; 500W×24
Beam Quality	$M^2 \leq 1.1$
Optical System	F-theta Lens
Maximum Scanning Speed	7m/s
Layer Thickness	20μm~100μm
Building Speed <sup>(2)</sup>	150cm <sup>3</sup> /h; 200cm <sup>3</sup> /h; 250cm <sup>3</sup> /h; 870cm <sup>3</sup> /h
Preheating Temperature	RT+20°C ~100°C
Recoating	Single/Double-direction
Minimum Oxygen Content	≤ 100ppm
Gas Requirement	Ar
Power Requirement	≤ 30kW; ≤ 33kW; ≤ 36kW ≤ 30kW; ≤ 33kW; ≤ 36kW ≤ 87kW
Supply Voltage	AC380V 3Ph/N/PE
Dimension of the System <sup>(3)</sup>	5190mm×4500mm×3720mm (W×D×H) 7800mm×4350mm×4850mm (W×D×H) 8720mm×6010mm×6950mm (W×D×H)
Weight of the System	Approx. 15000kg; 26000kg; 48160kg
Software	Magics; BLT-BP; BLT-MCS; BLT-Bright PreBuilder

Citations: (1)Excluding substrate thickness. (2)Dependent on part geometry, material and parameter set used. (3)The height does not include the height of the maintenance guardrail and the powder circulation system height. 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-S600/S615 Series

Metal Additive Manufacturing System  
(PBF-LB/M)



CE  
Certification



Laser FDA Safety  
Registration



ISO9001:2015 / ISO14001:2015 / ISO45001:2018

The machine has passed  
ATEX (Explosion Proof) Assessment

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

### Application Industries

Aviation, Aerospace, Engine, Medical,  
Automotive, Electronics, Mold, Scientific Research

### Application Cases



Valve Body



Industrial Valve  
Body



Robot Parts



Off-road Motorcycle  
Concept Frame

### BLT-S600/S615 Series Parameter

Supporting Materials	Titanium Alloy, Aluminum Alloy, Superalloy, Stainless Steel, High-strength Steel, Tool Steel
Build Dimension <sup>(1)</sup>	650mm × 650mm × 850mm (W × D × H) 650mm × 650mm × 1500mm (W × D × H)
Wave Length	1060nm~1080nm
Laser Power	500W × 4; 500W × 6; 500W × 8; 500W × 16
Beam Quality	M <sup>2</sup> ≤ 1.1
Optical System	F-theta Lens
Maximum Scanning Speed	7m/s
Layer Thickness	20μm ~100μm
Building Speed <sup>(2)</sup>	100cm <sup>3</sup> /h; 150cm <sup>3</sup> /h; 200cm <sup>3</sup> /h
Preheating Temperature	RT+20°C ~100°C
Recoating	Single/Double-direction
Minimum Oxygen Content	≤ 100ppm
Gas Requirement	Ar
Power Requirement	≤ 25kW; ≤ 30kW; ≤ 33kW ≤ 27kW; ≤ 30kW; ≤ 33kW
Supply Voltage	AC380V 3Ph/N/PE
Dimension of the System <sup>(3)</sup>	5160mm × 4250mm × 4140mm (W × D × H) 5450mm × 4620mm × 4880mm (W × D × H)
Weight of the System	13000kg 19000kg
Software	Magics; BLT-BP; BLT-MCS; BLT-Bright PreBuilder

Citations: (1)Including 100mm thickness of substrate. (2)Dependent on part geometry, material and parameter set used. (3)The height does not include the height of the maintenance guardrail and the powder circulation system height. 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-S450

Metal Additive Manufacturing System  
(PBF-LB/M)



ISO9001:2015 / ISO14001:2015 / ISO45001:2018

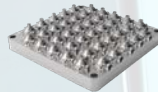
The system design references  
ATEX (Explosion Proof) Assessment

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

### Application Industries

Aviation, Aerospace, Engine, Medical,  
Automotive, Electronics, Mold, Scientific Research

### Application Cases



Full Substrate  
Mainfold



Full Substrate  
Water-cooled Motor  
Housing



Central Gear  
Drive Housing



Blow Molding  
Bottle Mold

### BLT-S450 Parameter

Supporting Materials	Titanium Alloy, Aluminum Alloy, Superalloy, Stainless Steel, High-strength Steel, Tool Steel
Build Dimension <sup>(1)</sup>	450mm×450mm×500mm (W×D×H)
Laser Power	500W×4; 500W×6; 500W×8
Wave Length	1060nm~1080nm
Beam Quality	M <sup>2</sup> ≤ 1.1
Optical System	F-theta Lens
Maximum Scanning Speed	7m/s
Layer Thickness	20μm ~100μm
Building Speed <sup>(2)</sup>	100cm <sup>3</sup> /h; 150cm <sup>3</sup> /h; 200cm <sup>3</sup> /h
Preheating Temperature	RT+20°C ~200°C
Recoating	Single/Double-direction
Minimum Oxygen Content	≤ 100ppm
Gas Requirement	Ar
Power Requirement	≤ 16kW; ≤ 23kW; ≤ 25kW
Supply Voltage	AC380V 3Ph/N/PE
Dimension of the System <sup>(3)</sup>	3600mm×2950mm×2850mm (W×D×H)
Weight of the System	6000kg
Software	Magics; BLT-BP; BLT-MCS; BLT-Bright PreBuilder

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. 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-S400/S430 Series

Metal Additive Manufacturing Machine  
(PBF-LB/M)



CE  
Certification



Laser FDA Safety  
Registration



ISO9001:2015 / ISO14001:2015 / ISO45001:2018

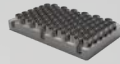
The machine has passed  
ATEX (Explosion Proof) Assessment

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

### Application Industries

Aviation, Aerospace, Engine, Medical, Automotive,  
Electronics, Scientific Research, 3C, Industrial Sector

### Application Cases



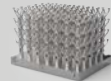
Full Substrate Swirler



Full Substrate  
Steel Sheet



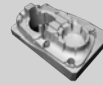
Full Chamber  
Support Frame



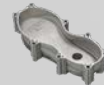
Full Chamber  
Support



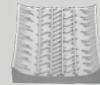
RB Shoe Mold



Die-Casting Mold



Popcorn Shoe Mold



Tire Mold

### BLT-S400/S430 Series Parameter

Supporting Materials	Titanium Alloy, Aluminum Alloy, Superalloy, Stainless Steel, High-strength Steel, Tool Steel, Copper Alloy
Build Dimension <sup>(1)</sup>	450mm × 300mm × 400mm (W × D × H) 420mm × 380mm × 400mm (W × D × H)
Laser Power	500W × 2; 500W × 3; 500W × 4; 500W × 6; 500W × 8
Wave Length	1060nm~1080nm
Layer Thickness	20μm~100μm
Maximum Scanning Speed	7m/s
Building Speed <sup>(2)</sup>	50cm <sup>3</sup> /h; 75cm <sup>3</sup> /h; 100cm <sup>3</sup> /h; 150cm <sup>3</sup> /h; 200cm <sup>3</sup> /h
Preheating Temperature	RT+20°C ~200°C
Beam Quality	M <sup>2</sup> ≤ 1.1
Optical System	F-theta Lens
Recoating	Single/Double-direction
Minimum Oxygen Content	≤ 100ppm
Gas Requirement	Ar/N <sub>2</sub>
Power Requirement	≤ 16kW; ≤ 18kW; ≤ 20kW; ≤ 26kW; ≤ 28kW
Supply Voltage	AC380V 3Ph/N/PE
Machine Dimension <sup>(3)</sup>	2800mmx1200mmx2350mm (W × D × H)
Machine Weight	2800kg; 3000kg
Software	Magics; BLT-BP; BLT-MCS; BLT-Bright PreBuilder

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-S210

Metal Additive Manufacturing Machine  
(PBF-LB/M)



CE  
Certification



Laser FDA Safety  
Registration



ISO9001:2015 / ISO14001:2015 / ISO45001:2018

The system design references  
ATEX (Explosion Proof) Assessment

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

### Application Industries

Medical Care, Colleges and Universities, Cultural and Creative Industries

### Application Cases



Titanium Alloy  
Flexible Structure



Co-Cr-Mo Alloy  
Femoral Condyle  
(Exhibit)



Tantalum Alloy  
Acetabular Cup  
(Exhibit)



Copper  
Seal



Silver Dragon  
Seal

### BLT-S210 Parameter

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 <sup>(1)</sup>	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 <sup>(2)</sup>	15cm <sup>3</sup> /h
Preheating Temperature	RT+20°C ~350°C
Beam Quality	M <sup>2</sup> ≤ 1.1
Optical System	F-theta Lens
Recoating	Single-direction Variable-speed Recoating
Minimum Oxygen Content	≤ 100ppm
Gas Requirement	Ar/N <sub>2</sub>
Power Requirement	≤ 5kW; ≤ 7.5kW
Supply Voltage	AC220V 1Ph/N/PE
Machine Dimension <sup>(3)</sup>	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

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

Metal Additive Manufacturing Machine  
(PBF-LB/M)



ISO9001:2015 / ISO14001:2015 / ISO45001:2018

The machine has passed  
ATEX (Explosion Proof) Assessment

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

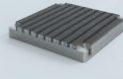
### Application Industries

Mold, Industry

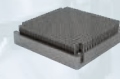
### Application Cases



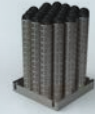
Full Substrate  
Heating Nozzle



Full Substrate  
Tire Mold Insert



Full Substrate  
Spinal Fusion Apparatus  
(Exhibit)



Full Substrate  
Acetabular Cup  
(Exhibit)

### BLT-A300/A320 Parameter

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; 500W×2
Wave Length	1060nm~1080nm
Layer Thickness	20μm~140μm
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
Optical System	F-theta Lens
Recoating	Single-direction Speed Recoating System
Minimum Oxygen Content	≤ 100ppm
Gas Requirement	Ar/N <sub>2</sub>
Power Requirement	≤ 8kW; ≤ 10kW
Supply Voltage	AC380V 3Ph/N/PE
Machine Dimension <sup>(3)</sup>	2350mm×1200mm×2220mm(W×D×H) Height of Tri-color Indicator: Approx.480mm
Machine Weight	2020kg
Software	Magics; BLT-BP; BLT-MCS; BLT-Bright PreBuilder

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-A160

Metal Additive Manufacturing Machine  
(PBF-LB/M)



CE  
Certification



FDA-registered  
Laser Machine



ISO9001:2015 / ISO14001:2015 / ISO45001:2018

The machine has passed  
ATEX (Explosion Proof) Assessment

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

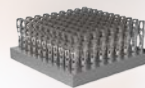
### Application Industries

Industrial, 3C Consumer Goods, Cultural and Creative Industries, Dental, Small Parts Batch Production Platforms

### Application Cases



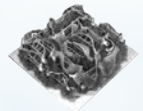
Full-substrate Terracotta  
Warriors Desktop Ornaments



Full-substrate  
Bottle Opener



Full-substrate  
Rollerball Pen



Full-substrate Cobalt  
Chromium  
Alloy Oral Stent



Full-substrate Cobalt  
Chromium Alloy  
Dental Crown



Full-substrate  
titanium Alloy  
Oral Stent

### BLT-A160 Parameter

Supporting Materials	Titanium Alloy, Superalloy, Cobalt-Chromium Alloys, Aluminum Alloys, Stainless Steel, High-Strength steel, Tool Steel
Build Dimension <sup>(1)</sup>	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 <sup>(2)</sup>	Approx. 15cm <sup>3</sup> /h ; Approx. 30cm <sup>3</sup> /h
Optical System	F-theta Lens
Beam Quality	M <sup>2</sup> ≤ 1.1
Recoating	Single-direction Variable-Speed Powder Spreading
Minimum Oxygen Content	≤ 100ppm
Gas Requirement	Ar/N <sub>2</sub>
Power Requirement	≤ 5kW; ≤ 7.5kW
Supply Voltage	AC220V 1Ph/N/PE
Machine Dimension <sup>(3)</sup>	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

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-C400

Laser-based Direct Energy Deposition (DED-LB/M) Machine



CE  
Certification



ISO9001:2015 / ISO14001:2015 / ISO45001:2018

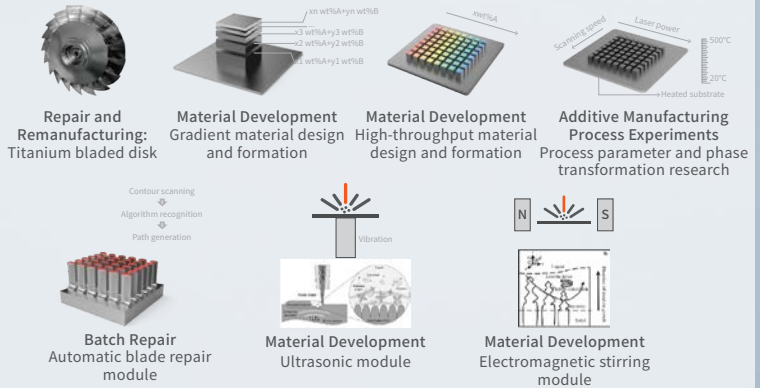
The machine has passed ATEX (Explosion Proof) Assessment

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

### Application Industries

Aviation, Aerospace, Engine, Scientific Research

### Application Cases



### BLT-C400 Parameter

Supporting Materials	Titanium Alloy, Aluminum Alloy, Superalloy, Stainless Steel, High-strength Steel, Tool Steel
Build Dimension	400mm×400mm×400mm (W×D×H)
X/Y/Z axis positioning accuracy	±0.05mm/m
X/Y/Z axis repeat positioning accuracy	±0.05mm/m
Laser Power	500W/1000W/2000W
Wave Length	1060nm~1090nm
Powder Feeder	2-4 channel constant flow powder feeder (error within ±2%)
Powder feeding head types	four-channel powder feeding/lateral powder feeding, etc. (configured according to the product)
Spot Diameter	0.5~5mm (for 2000W laser)
Minimum Oxygen Content	≤ 50ppm
Gas Requirement	Ar
Power Requirement	≤ 9kW-23kW (power consumption varies with selected configurations)
Supply Voltage	AC380V; 3Ph/N/PE; 50Hz
Machine Dimension <sup>(1)</sup>	1950mm×1450mm×2020mm (W×D×H)
Software	Voxeldance Additive、BLT-BP、BLT-MCS
Working Environment	Temperature 0~35° C, Humidity ≤ 70%

Citations: (1) 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-Split Powder Circulation System

Efficient powder circulation is a crucial step towards large-scale production. BLT's powder automation solution enables high-speed powder turnover, enhancing batch production rhythm and efficiency.

The split powder circulation system integrates powder supply, recycling, and sieving through equipment interconnection for streamlined operations.

BLT-SF400 is a powder sieving machine for metal additive manufacturing.

The BLT-GF500 is a powder supply machine for metal additive manufacturing.

- Groundpowder sieving
- High-efficiency sieving
- Separate recycling
- Intelligent Operation
- Modular powder tank
- Inert gas protection in the whole process
- Adaptable to multiple scenarios

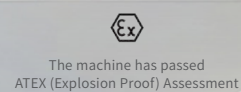
- Inert gas protection in the whole process
- Isolation of human-powder in the whole process
- Modular powder tank
- More free adaptation
- One-click powder feeding
- Continuous powder delivery
- Quantitative powder delivery

BLT-QF400 is a depowdering machine for metal additive manufacturing.

BLT-WL200 is a powder collection machine for metal additive manufacturing.

- High-efficiency depowdering
- Programme memory
- Auto/Manual Switch
- Full inert gas protection
- Isolation of human-powder in the whole process

- Self-cleaning filter element
- freely interconnected
- High-efficiency recovery
- Convenient mobility
- Modular powder tank
- Inert gas protection in the whole process



# BLT-Integrated Powder Circulation System

BLT-XH300 and BLT-XH500 integrate the functions of loading, supplying and collecting powder, realizing one-stop automated powder management.

## BLT-XH300/BLT-XH500

Highly Integrated

Intelligent and Convenient

Small Footprint

Efficient Operation

Energy Saving and Emission Reduction



ISO9001:2015 / ISO14001:2015 / ISO45001:2018

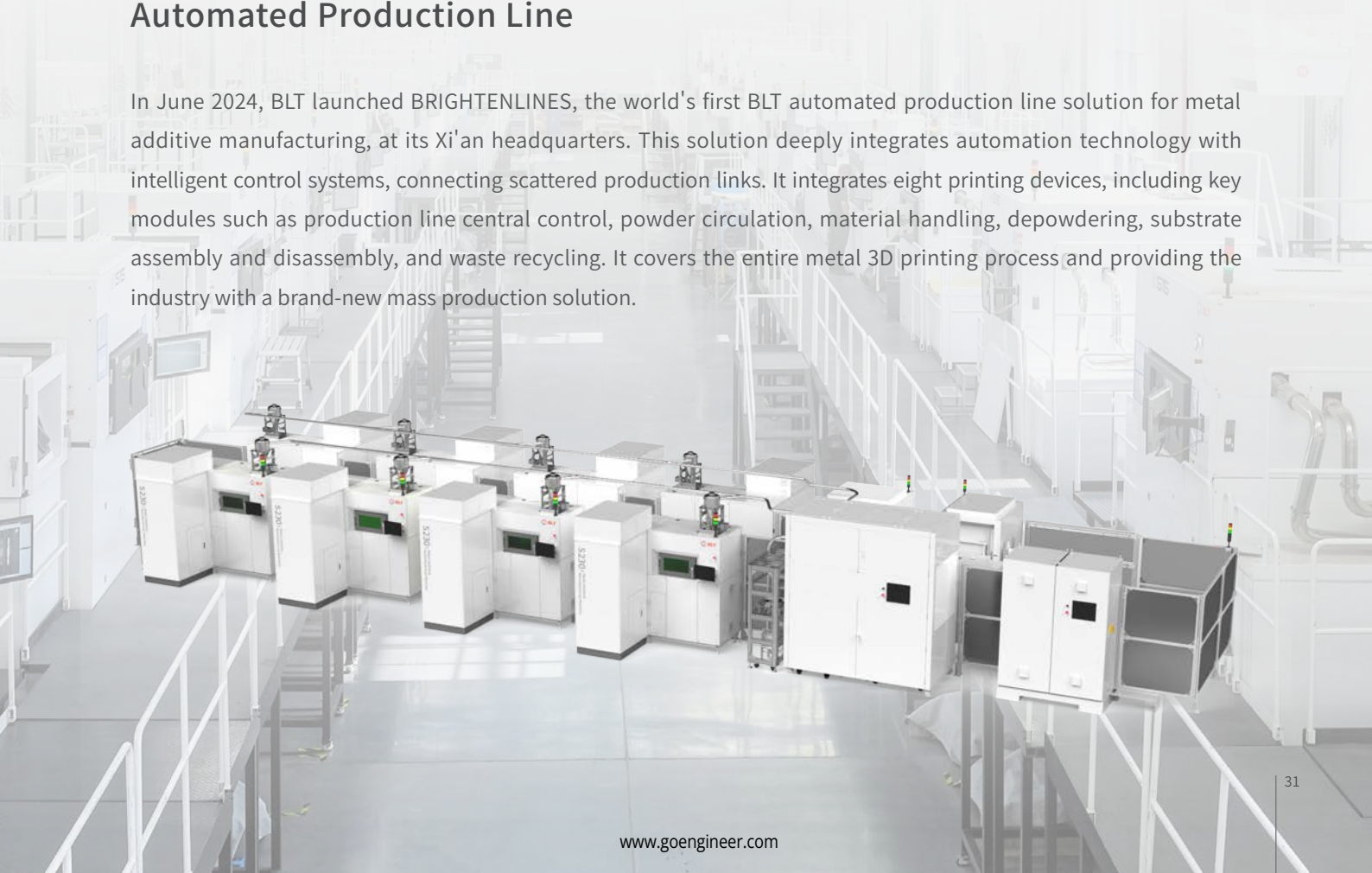


The machine has passed  
ATEX (Explosion Proof) Assessment



# Automated Production Line

In June 2024, BLT launched BRIGHTENLINES, the world's first BLT automated production line solution for metal additive manufacturing, at its Xi'an headquarters. This solution deeply integrates automation technology with intelligent control systems, connecting scattered production links. It integrates eight printing devices, including key modules such as production line central control, powder circulation, material handling, depowdering, substrate assembly and disassembly, and waste recycling. It covers the entire metal 3D printing process and providing the industry with a brand-new mass production solution.



# Closed-loop Software Ecosystem

## Before Printing

01

- 2017 **High-efficiency**  
BLT-Sliceviewer  
Slice path inspection, offline machine time calculation
- 2021 **High-efficiency**  
BLT-BP  
Intelligent path planning
- 2023 **High-efficiency**  
BLT-BP V2  
Significantly improves slicing and printing efficiency  
It is the first to introduce a movable overlapping line function
- 2025 **High-efficiency**  
BLT-Bright PreBuilder  
One-stop model pre-processing operation platform  
Enables the critical leap from ready-to-print to intelligent manufacturing.

## Printing

02

- 2016 **High-efficiency**  
BLT-MCS  
Intelligent control for metal 3D printers
- 2019 **High-efficiency**  
BLT-Automatic Grafting  
Batch, multi-type, and multi-machine adaptation
- 2021 **High-quality**  
BLT-3D Reconstruction  
Tracking, monitoring, and correcting forming defects.
- 2024 **High-quality**  
BLT-Video Monitoring  
Tracking, monitoring, and correcting forming defects
- 2024 **High-quality**  
AMC Control Card  
Works in conjunction with self-developed hardware

## After Printing

03

- 2019 **High-efficiency**  
BLT-Powder Spreading Detection  
Monitors powder spreading defects during the printing process
- 2021 **High-efficiency**  
BLT-Temperature Field Control  
Real-time temperature field monitoring module
- 2024 **High-efficiency**  
BLT-AUTOCAL  
Multi-galvanometer automatic correction
- 2025 **High-efficiency**  
BLT-Intelligent Powder Spreading  
Variable-speed powder spreading combined with intelligent processing
- 2018 **High-quality**  
BLT-Reportviewer  
Exports complete reports of the printing process
- 2024 **High-quality**  
BLT-Self-learning Platform  
Custom AI model training for defect characteristics

## BLT-MES

Intelligent management software for metal 3D printing production lines



## Global Business and Technical Support Network

China: Xi'an, Shenzhen, Shanghai, Beijing, Jiangsu, Weinan, Hong Kong

Overseas: Germany, North America

After-sales Support: South Africa (agent), Spain (agent), Nigeria (agent),  
Poland (agent), Malaysia (agent), South Korea (agent),  
Japan (agent), India (agent)



## Global After-Sales Service

Based on our long and extensive experience in production and after-sales, we are committed to swiftly solve customer issues with our professional and efficient global service organization which is "8-hour response, 48-hour arrival, 72-hour resolution".

### Personnel Training Service

BLT offers comprehensive training solutions to its customers. The primary training encompasses process treatment, software usage, and machine and system operation. The intermediate training focuses on process treatment with typical industry characteristics. And the advanced training can be customized according to customers' specific needs.

### Machine and System Upgrading Service

BLT provides upgrade of metal 3D printing machine and system, including control systems, mechanical structure, various sensors, electrical systems, operating systems and so on.

### Spare Parts Service

BLT provides all kinds of parts consumables related to machine and system maintenance for customers. It contains oxygen content sensor, water cooler filter element, circulating filter element, pressure sensor, differential pressure sensor, seal ring, clamp, drive belt, heating plate and so on.



# Raw Material Product Lines 06

The BLTM powder brand's product portfolio encompasses a diverse range of powder grades across multiple categories and particle size specifications, including titanium and titanium alloys, superalloys, aluminium alloys, and stainless steels. Its specific grade portfolio covers over 90% of those commonly used in metal 3D printing, with a comprehensive range of particle sizes to meet diverse user requirements under varying conditions. Furthermore, BLTM's robust R&D capabilities enable customized powder solutions, assisting customers with product development trials, prototyping, and print validation.

## Titanium Alloy

TA1、TC4ELI、TC11、TA15、TA17、TC18、TA19、TC21、Ti40、Ti60、Ti64、Ti600、Ti2AlNb、TiAl4822、TiAM1, etc.

## Superalloy

IN718(GH4169)、IN625(GH3625)、HastelloyX-(GH3536)、GH3128、M509、K452、K477、K247、IN939、Haynes 282、CoCrW、CoCrMo、CoCrMoW

## Aluminum Alloy

AlSi10Mg、AlSi7Mg、AlAM300、AlAM300C、AlAM400、AlAM500

## High-strength Steel

Aermet 100、300M、30CrMnSiA、40CrMnSiMoVA、15-5PH、17-4PH、PH13-8Mo

## Pure Tungsten

Pure Tungsten

## Tantalum Alloy

Ta10W

## Stainless Steel

304、316L、321、2Cr13

## Tool Steel

H13、18Ni300、420、CX、GAM100

## Copper Alloy

CuCrZr

## Functional Material

4J32(Invar 32)、4J36(Invar 36)、magnetic material

The powder product line is equipped with a dedicated workshop covering an area of 40000 square meters. There are 24 complete atomized powder production lines, more than 30 sets of various powder testing machines, and the annual output of high-quality finished powder can reach 1200-1500 tons.



BLT Intelligent Manufacturing Factory for Printing Service



BLT Dedicated Intelligent Production Factory of Powder Lines



Powder Product

BLT has developed a variety of high quality Titanium and Titanium Alloy powders, and can provide customized service of Titanium and Titanium Alloy powders, helping customers achieve whole process service of powder trial production, small batch preparation, verification of printing application, mass production and so on.

Grades of Titanium and Titanium Alloy Powder: Cp-Ti Grade1, Ti-6Al-4V Grade5, Ti-6Al-4V Grade23, Ti-6.5Al-1Mo-1V-2Zr, Ti-6.5Al-3.5Mo-1.5Zr-0.3Si, Ti-6Al-2Mo-2Nb-2Zr-2Sn-1.5Cr, Ti-5Al-4.75Mo-4.75V-1Cr-1Fe, Ti-22Al-25Nb, Ti-48Al-2Nb-2Cr, Ti65

### R&D of Titanium and Titanium Alloy Powder

#### Powder Production

Manufacturing high-quality 3D printing titanium and titanium alloy powders using EIGA technologies.



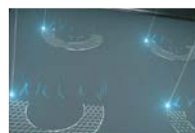
#### Powder Testing

Equipped with a standardized testing center, BLT can conduct comprehensive testing of powder composition, particle size, morphology and physical properties.



#### 3D Printing

Various types of PBF-LB/M machines and systems are used for powder printing and 3D printing verification of the powders.



#### Material Performance Testing

Microstructure and properties testing of finished parts to support powder R&D.



### Powder Particle Size Distribution Characteristics

Customized granularity, for example 15~45µm, 15~53µm, 45~105µm, 45~150µm, 75~180µm, etc.

# Global Customers 07

As of the end of June 2025

BLT has provided a complete technical solution of Metal AM and repairing for nearly **3300** customers worldwide, serving industries that span **Aviation, Aerospace, Energy, Automotive, Electronics, Mold, Healthcare, University Research** and so on.

BLT's global customers are spread across various regions including **Mainland China, China Hong Kong, China Macao, China Taiwan, North America, the United Kingdom, Germany, France, Poland, Italy, Japan, South Korea, Southeast Asia, North Africa, the Middle East, Australia** and so on.



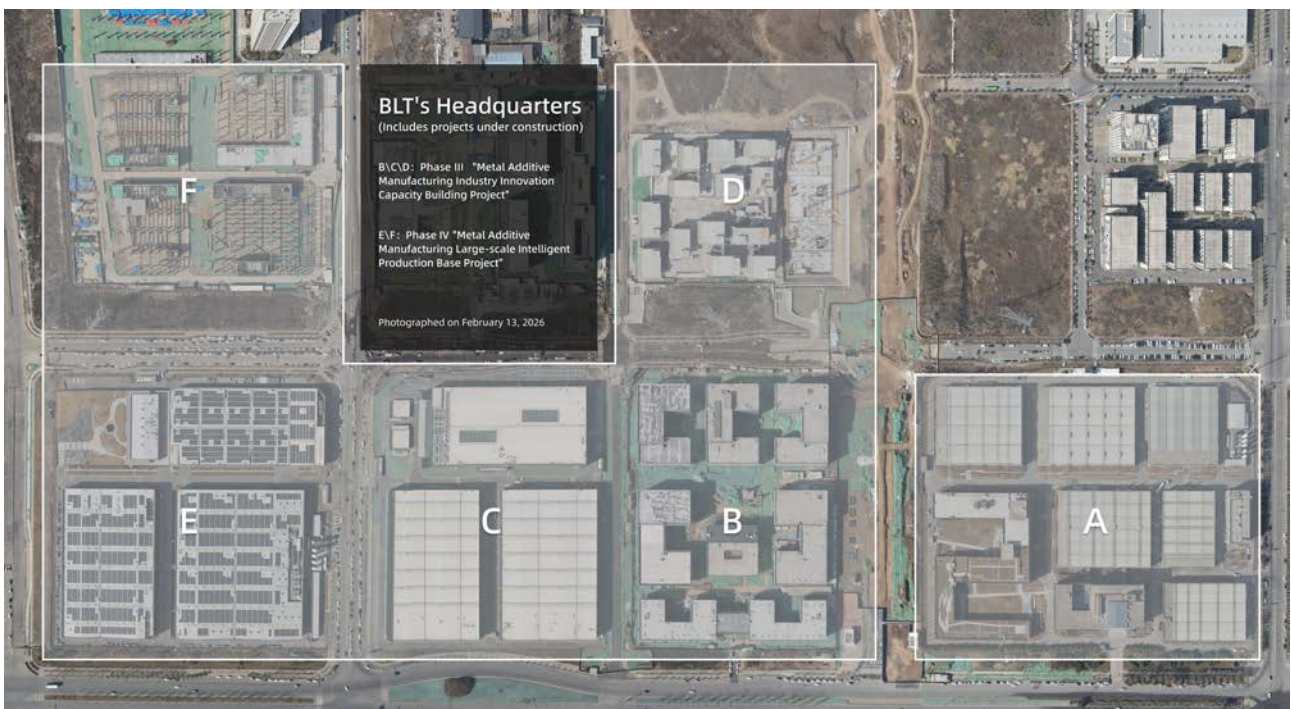
# Industrialization Development and Subsidiary & Branch Expansion 08

The Phase I and Phase II of BLT's headquarters are located on a single plot of land. Phase I was fully completed and put into operation in June 2018, while Phase II was fully operational in 2021.



- The groundbreaking ceremony for Plot B of BLT's "Metal Additive Manufacturing Industry Innovation Capacity Building Project" (Phase III ) was held on July 22, 2022. The groundbreaking ceremonies for Plot C and Plot D were held on March 15, 2024. As of December 2025, the main structure of the factory building on Plot B has been completed and has entered the final construction stage. On Plot C, the main structure of some factory buildings has been completed, and the project has officially entered the equipment installation and commissioning stage. Meanwhile, construction work on Plot D is progressing steadily.

- The groundbreaking ceremony for Plot E of BLT's "Metal Additive Manufacturing Large-scale Intelligent Production Base Project" (Phase IV ) was held on May 5, 2023. It was completed in December 2024 and entered the equipment installation and commissioning stage. The groundbreaking ceremony for Plot F was held on May 19, 2025. As of December 2025, it has entered the main structure construction stage. The groundbreaking ceremony for the "Additive Manufacturing Dedicated Powder Line Construction Project" (BLT's Fengxi Factory) was held on May 23, 2025.





# 铂力特

Bright Laser Technologies (Shenzhen) Co., Ltd.  
**South China Application R&D Center**

Bright Laser Technologies (Shanghai) Co., Ltd.  
**East China Application R&D Center**

Bright Laser Technologies (Jiangsu) Co., Ltd.  
**Metal Additive Manufacturing Production Service Base**

Bright Laser Technologies (Weinan) Co., Ltd.  
**Metal Additive Manufacturing Production Service Base**

Xi'an Bright Laser Technologies Co., Ltd. Beijing Branch  
**Promotion of Metal Additive Manufacturing Service  
and Technical Consulting Service**

BLT Europe GmbH  
**International Promotion of Metal Additive  
Manufacturing Products, Services and Technologies**



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