GLOBAL LASER BOX

Building the World's Most Influential Digital Intelligent Manufacturing Brand

Building 29, No.99 Taihu Road, Tinghu District, Yancheng City, Jiangsu Province, China
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GLOBAL LASER BOX



Metal 3D Printing Mass Production Solution Provider

Core Philosophy

People-Oriented, Digital Innovation Corporate Vision

Corporate Vision

Build the World's Most Influential Digital Intelligent Manufacturing Brand

Corporate Mission

Drive Productivity Transformation in the Global Manufacturing Industry through Innovative Concepts

Corporate Values

Create Value for Partners

The people of Global Laser Box
are always committed to
delivering trust
and striving to deliver
every qualified product!

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2. Intellectual Property
3. Qualifications and Honors
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5. Printing Equipment
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7. Core Advantages
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1 ABOUT US



Jiangsu Global Laser Box Digital Technology Co., Ltd. (hereinafter referred to as “Global Laser Box”) is a provider of large-scale production solutions for metal 3D printing. Using its self-developed industrial-grade SLM metal 3D printing equipment and software, the company offers customers metal 3D printing machines and finished products. Its main application fields include industrial molds, high-end dentistry, 3C consumer electronics, aerospace, etc., enabling large-scale production.

Currently, the company operates two SLM metal 3D printing equipment manufacturing bases in Yancheng, Jiangsu and Changde, Hunan, as well as four 3D printing service bases in Wenzhou, Zhejiang; Changde, Hunan; Tinghu District, Yancheng, Jiangsu; and Yannan District, Yancheng, Jiangsu. The total floor area is approximately 20,000 square meters, with more than 200 employees, of whom around 21% are R&D personnel.

2 INTELLECTUAL PROPERTY

Over 200 patent applications have been filed,with a head start on laying out plans for core industrialpatents and industry 4.0—like 3D Printing Equipment R&D,3D Printing Smart System,3D Printing Process R&D,Laser Optics and more



Certificate of Invention Patent



Certificate of Utility Model Patent



Certificate of Registration for Computer Software Copyright



Professor Zhao Jiyuan
(Automation)

- Doctoral supervisor and secondary professor
- Deputy Director of the High-end Manufacturing Equipment Collaborative Innovation Center.
- He has been selected into the National talent project, awarded outstanding, contributing young and middle-aged experts, and enjoyed the special allowance of The State Council.
- The ninth batch of 100 people plan in Shaanxi province is long-terminnovative talents .
- More than 20 years of working experience in Siemens Automation.



Professor Liu Shuangyu
(Process Development)

- Doctoral supervisor, presided over more than 10 nationaland provincial projects
- “Mass entrepreneurship and innovation talents” in JiangsuProvince
- Now he is the deputy secretary-general of Jilin Provincial Additive Manufacturing Association
- Senior member of China Optical Society



Dr. Jiang Wenbo
(New Implant Technology)

- Vice President of Shanghai Additive Manufacturing Association
- Executive Director of Shanghai Additive Manufacturing Research Institute
- Director of Shanghai 3D Printing highly skilled personnel Training Base
- Deputy Director of the Medical 3D Printing Innovation Research Center of Shanghai Jiao Tong University
- Secretary-general of the National Alliance of the Medical 3D Printing Center



Li Yonggang,
Associate Professor
(3D printing software system)

- Mastersdegree
- GeneralmanagerofGuangzhouJinming,asubsidiaryofchromiumleb
- Developedvariouscontrolsystemsincludings LM,SLLA,SLS,DLP,etc
- AssociateprofessorofGuangdongMechanicalTechnicianCollege
- MemberofGuangdongAdditiveManufacturingAssociation
- MemberofGuangzhouSoftwareAssociation



Dr.FulongZhang
(Equipment Orientation)

- Mastersdegree
- DoctorofMechanicalEngineering,Changchun Universityof.
- ScienceandTechnology
- MemberofJilinProvinceAdditiveManufacturing Association.
- Mainlyengagedinlaserprocessing,laserarccomposite welding,
- lightcuring3Dprintingandotheraspectsoftheresearch



Dr. Deng Liang
(Ph.D. in Materials Science)

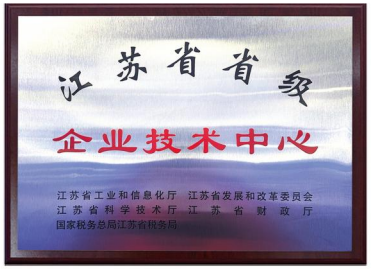
- Attach to Shanghai Ninth People’s Hospital. He is committed to the research on the intelligent design and manufacturing of personalized orthopedic implant devices, and actively promotes their clinical translation.

3 QUALIFICATIONS AND HONORS





















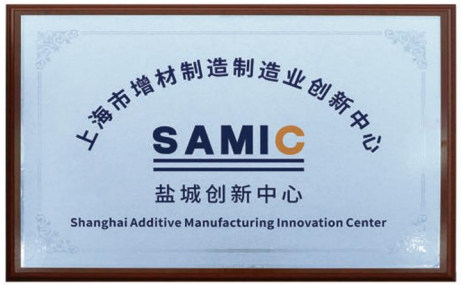
4 INDUSTRY-UNIVERSITY -RESEARSITY COOPERATION













5 PRINTING EQUIPMENT

GLB-120M



Industrial customized SLM metal 3D printing integrated system

- Ultra small
- Selective metal material packages
- Fully Open Parameter Editing Window
- Permanent filter

Technical parameters: GLB-120M

Parameter	
Basic Dimensions	650mm×650mm×1021mm
Build Size	Φ120mm×80mm
Machine Weight	180KG
Performance Parameters	
Layer Thickness	0.02mm-0.04mm
Powder Feeding Method	Top-feed
Spreading Method	One-way
Scanning Speed	7-12m/s
Host Computer Software	Self-developed
Supported Interface Types	RS232/RS485,Ethernet, USB,CANopen
HMI Device	PC
Operating System	Windows10
Motion Component Drive	Servo Motor
Control Software	Self-developed (JYM Build Ⅱ)
Supported File Formats	STL
Data Processing Software	Vulcan slice、VoxelDance、Magics
Compatibility	
Laser System	Air-cooled laser
Scanner System	High-Precision Scanning Module
Laser Beam Spot Size	40-60μm
Laser Power	300/500W
Laser Control System	RTC4
System Protection & Options	
Protective Gas	Nitrogen, Argon
Gas Protection System	Gas Balance Solid-state Recovery System
Equipment Power	Rated Power 2000W
Operating Environment	Temp 25±3°C, Humidity <75%
Auto Shutdown & Monitoring Alarm	Supported

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5 PRINTING EQUIPMENT

GLB-150M



Industrial customized SLM metal 3D printing integrated system

- Large-capacity continuous powder delivery
- Permanent filter
- Multiple metal material packages
- Fully Open Parameter Editing Window

Technical parameters: GLB-150M

Parameter	
Basic Dimensions	820mm×920mm×1380mm
Build Size	Φ148mm×100mm
Machine Weight	360KG
Performance Parameters	
Layer Thickness	0.02mm-0.06mm
Powder Feeding Method	Top Powder Feeding
Spreading Method	One-way
Scanning Speed	7-12m/s
Host Computer Software	Self-developed
Supported Interface Types	RS232/RS485,Ethernet, USB,CANopen
HMI Device	PC
Operating System	Windows10
Motion Component Drive	Servo Motor
Control Software	Self-developed (JYM Build Ⅱ)
Supported File Formats	STL
Data Processing Software	Vulcan slice、VoxelDance、Magics
Compatibility	
Laser System	Fiber Laser
Scanner System	High-Precision Scanning Galvanometer
Laser Beam Spot Size	60-80μm
Laser Power	500W×1/×2
Laser Control System	RTC4
System Protection & Options	
Protective Gas	Nitrogen, Argon
Gas Protection System	Gas-Fume Current Recovery System
Equipment Power	Rated Power 4500W
Operating Environment	Temp 25±3°C, Humidity <75%
Auto Shutdown & Monitoring Alarm	Supported

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5 PRINTING EQUIPMENT

GLB-220M



Industrial customized SLM metal 3D printing integrated system

- Large-capacity continuous powder delivery
- Permanent Filter
- Multiple metal material packages
- Fully Open Parameter Editing Window

Technical parameters: GLB-220M

Parameter	
Basic Dimensions	1400mm×780mm×1760mm
Build Size	220mm×160mm×200mm
Machine Weight	650KG
Performance Parameters	
Layer Thickness	0.02mm-0.06mm
Powder Feeding Method	Top Feed
Spreading Method	One-way
Scanning Speed	7-12m/s
Host Computer Software	Self-developed
Supported Interface Types	RS232/RS485,Ethernet, USB,CANopen
HMI Device	PC
Operating System	Windows10
Motion Component Drive	Servo Motor
Control Software	Self-developed (JYM Build Ⅱ)
Supported File Formats	STL
Data Processing Software	Vulcan slice、VoxelDance、Magics
Compatibility	
Laser System	Fiber Laser
Scanner System	High-Precision Scanning Galvanometer
Laser Beam Spot Size	60-80μm
Laser Power	500W×2
Laser Control System	RTC4
System Protection & Options	
Protective Gas	Nitrogen, Argon
Gas Protection System	Gas-Fume Current Recovery System
Equipment Power	Rated Power 5000W
Operating Environment	Temp 25±3°C, Humidity <75%
Auto Shutdown & Monitoring Alarm	Supported

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5 PRINTING EQUIPMENT

GLB-330M



Industrial customized SLM metal 3D printing integrated system

- Bi-directional Circulating Recoater
- Fully Open Parameter Editing Window
- Multiple metal material packages
- Permanent filter

Technical parameters: GLB-330M

Parameter	
Basic Dimensions	2200mm×1150mm×2100mm
Build Size	330mm×330mm×300mm
Machine Weight	1100KG
Performance Parameters	
Layer Thickness	0.02mm-0.09mm
Powder Feeding Method	Top Feed
Spreading Method	Two-way/bi-directional
Scanning Speed	7-12m/s
Host Computer Software	Self-developed
Supported Interface Types	RS232/RS485,Ethernet, USB,CANopen
HMI Device	PC
Operating System	Windows10
Motion Component Drive	Servo Motor
Control Software	Self-developed (JYM Build Ⅱ)
Supported File Formats	STL
Data Processing Software	Vulcan slice、VoxelDance、Magics
Compatibility	
Laser System	Fiber Laser
Scanner System	High-Precision Scanning Galvanometer
Laser Beam Spot Size	70-100μm
Laser Power	500W×2/4
Laser Control System	RTC4
System Protection & Options	
Protective Gas	Nitrogen, Argon
Gas Protection System	Gas-Fume Current Recovery System
Equipment Power	Rated Power 8KW
Operating Environment	Temp 25±3°C, Humidity <75%
Auto Shutdown & Monitoring Alarm	Supported

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5 PRINTING EQUIPMENT

GLB-400M



Industrial customized SLM metal 3D printing integrated system

- Bi-directional Circulating Recoater
- Fully Open Parameter Editing Window
- Multiple metal material packages
- High Efficiency Printing Speed

Technical parameters: GLB-400M

Parameter	
Basic Dimensions	2500mm×1250mm×2200mm
Build Size	390mm×380mm×300mm
Machine Weight	1600KG
Performance Parameters	
Layer Thickness	0.02mm-0.09mm
Powder Feeding Method	Top Feed
Spreading Method	Two-way/bi-directional
Scanning Speed	7-12m/s
Host Computer Software	Self-developed
Supported Interface Types	RS232/RS485,Ethernet, USB,CANopen
HMI Device	PC
Operating System	Windows10
Motion Component Drive	Servo Motor
Control Software	Self-developed (JYM Build Ⅱ)
Supported File Formats	STL
Data Processing Software	Vulcan slice、VoxelDance、Magics
Compatibility	
Laser System	Fiber Laser
Scanner System	High-Precision Scanning Galvanometer
Laser Beam Spot Size	70-100μm
Laser Power	500W×2/4/6
Laser Control System	RTC4
System Protection & Options	
Protective Gas	Nitrogen, Argon
Gas Protection System	Gas-Fume Current Recovery System
Equipment Power	Rated Power 10KW
Operating Environment	Temp 25±3°C, Humidity <75%
Auto Shutdown & Monitoring Alarm	Supported

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5 PRINTING EQUIPMENT

GLB-420M



Industrial customized SLM metal 3D printing integrated system

- Bi-directional Circulating Recoater
- Fully Open Parameter Editing Window
- Multiple metal material packages
- High Efficiency Printing Speed

Technical parameters: GLB-420M

Parameter	
Basic Dimensions	1990mm×1470mm×2180mm
Build Size	420mm×380mm×300mm
Machine Weight	1700KG
Performance Parameters	
Layer Thickness	0.02mm-0.09mm
Powder Feeding Method	Top Feed
Spreading Method	Two-way/bi-directional
Scanning Speed	7-12m/s
Host Computer Software	Self-developed
Supported Interface Types	RS232/RS485,Ethernet, USB,CANopen
HMI Device	PC
Operating System	Windows10
Motion Component Drive	Servo Motor
Control Software	Self-developed (JYM Build Ⅱ)
Supported File Formats	STL
Data Processing Software	Vulcan slice、VoxelDance、Magics
Compatibility	
Laser System	Fiber Laser
Scanner System	High-Precision Scanning Galvanometer
Laser Beam Spot Size	70-100μm
Laser Power	500W×2/4/6
Laser Control System	RTC4
System Protection & Options	
Protective Gas	Nitrogen, Argon
Gas Protection System	Gas-Fume Current Recovery System
Equipment Power	Rated Power 10KW
Operating Environment	Temp 25±3°C, Humidity <75%
Auto Shutdown & Monitoring Alarm	Supported

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5 PRINTING EQUIPMENT

GLB-720M



Industrial customized SLM metal 3D printing integrated system

- Bi-directional Circulating Recoater
- Multiple metal material packages
- Fully Open Parameter Editing Window
- Variable Large Format Uniform Flow Field

Technical parameters: GLB-720M

Parameter	
Basic Dimensions	2720mm×1470mm×2870mm
Build Size	720mm×380mm×300mm
Machine Weight	2600KG
Performance Parameters	
Layer Thickness	0.03mm-0.09mm
Powder Feeding Method	Top Feed
Spreading Method	Two-way/bi-directional
Scanning Speed	7-12m/s
Host Computer Software	Self-developed
Supported Interface Types	RS232/RS485,Ethernet, USB,CANopen
HMI Device	PC
Operating System	Windows10
Motion Component Drive	Servo Motor
Control Software	Self-developed (JYM Build Ⅱ)
Supported File Formats	STL
Data Processing Software	Vulcan slice、VoxelDance、Magics
Compatibility	
Laser System	Fiber Laser
Scanner System	High-Precision Scanning Galvanometer
Laser Beam Spot Size	70-100μm
Laser Power	500W×4/8
Laser Control System	RTC4
System Protection & Options	
Protective Gas	Nitrogen, Argon
Gas Protection System	Gas-Fume Current Recovery System
Equipment Power	Rated Power10KW
Operating Environment	Temp 25±3°C, Humidity <75%
Auto Shutdown & Monitoring Alarm	Supported

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5 PRINTING EQUIPMENT

GLB-800M



Industrial customized SLM metal 3D printing integrated system

- Bi-directional Circulating Recoater
- Multiple metal material packages
- Fully Open Parameter Editing Window
- Variable Large Format Uniform Flow Field

Technical parameters: GLB-800M

Parameter	
Basic Dimensions	8500mm×4500mm×4970mm
Build Size	820mm×630mm×1200mm
Machine Weight	25000kg
Performance Parameters	
Layer Thickness	0.03mm-0.15mm
Powder Feeding Method	Top Feed
Spreading Method	Two-way/bi-directional
Scanning Speed	7-12m/s
Host Computer Software	Self-developed
Supported Interface Types	RS232/RS485,Ethernet, USB,CANopen
HMI Device	PC
Operating System	Windows10
Host-Controller Comm Protocol	Modbus Standard Protocol
Motion Component Drive	Servo Motor
Control Software	Self-developed (JYM Build Ⅱ)
Supported File Formats	STL
Data Processing Software	Vulcan slice、VoxelDance、Magics
Compatibility	
Laser System	Fiber Laser
Scanner System	High-Precision Scanning Galvanometer
Laser Beam Spot Size	70-100μm
Laser Power	500W/1000W×6/8/10/12
Laser Control System	RTC5
System Protection & Options	
Protective Gas	Nitrogen, Argon
Gas Protection System	Gas-Fume Current Recovery System
Equipment Power	Rated Power ≤45kw
Operating Environment	Temp 25±3°C, Humidity <75%
Auto Shutdown & Monitoring Alarm	Supported

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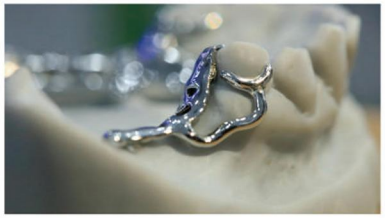
6 APPLICATIONS (Biomedical)



Metal 3D Printed Cobalt-Chromium Dental Crown



Metal 3D Printed Titanium Alloy Human Jawbone



Metal 3D Printed Titanium Stent



Metal 3D Printed Titanium Alloy Bar Clasp

Metal 3D printing is widely applied in the biomedical field. Based on scanning data, manual or AI modeling is adopted to fit individual patient conditions, so as to produce highly customized prosthetic implants. Thanks to a broad selection of materials for metal 3D printing, titanium alloy, tantalum alloy and other materials with excellent biocompatibility can be used for such implants.

Industrial molds

Metal 3D printing will become an important supplement in the mold production process.In traditional mold machining, the processing of complex-shaped parts involves multi-surface machining and EDM (electrical discharge machining), which often leads to high production costs and low efficiency. Metal 3D printing, however, not only enables one-step forming but also reduces costs and improves efficiency



Metal 3D Printed Pop-corn mold



Metal 3D Printed Heat Sink



Metal 3D Printed Conformal Cooling Channel



Metal 3D Printed Porous Steel / Venting Steel

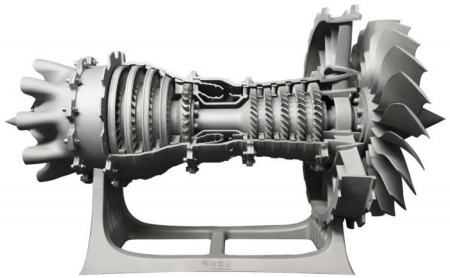


Metal 3D Printed Pen Nib Mold



Metal 3D Printed Heat Exchanger

Military and Aerospace



Metal 3D-printed engines in aerospace have super powerful material performance and greatly extend their service life at the same time

Metal 3D-Printed Blade (Anatomical View)
Engine blades require excellent airflow guidance, necessitating internal air channels and complex structures within the blade. Metal 3D printing enables one-piece manufacturing of such complex geometries, significantly enhancing production efficiency

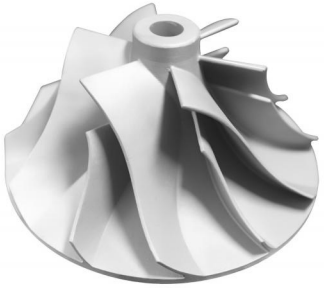




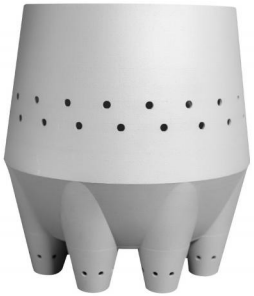
The Metal 3D-Printed High-Temperature Turbofan demands exceptional heat resistance and deformation resistance. Traditional machining not only involves a long production cycle but also results in low yield rates. In contrast, 3D printing technology not only effectively addresses challenges such as mass production but also shortens the production cycle by 50%

Military and Aerospace

Metal 3D Printing, specializing in high-strength heat-resistant alloys, enables integrated forming of complex components for the military and aerospace sectors, delivering cutting-edge performance and reliability to equipment



Impeller



Combustion Chamber



Satellite Bracket



Turbine Nozzle

Military and Aerospace

Cultural and creative products

Cultural and creative products

In the current consumer market, demand for personalized design in cultural creativity and jewelry sectors keeps rising. With its unique advantages, 3D printing technology accurately caters to and fulfills such market needs



Koi Ornament
(Breathable Steel)



Dragon-head Seal
(Breathable Steel)



Pendant Ornament
(Titanium Alloy)









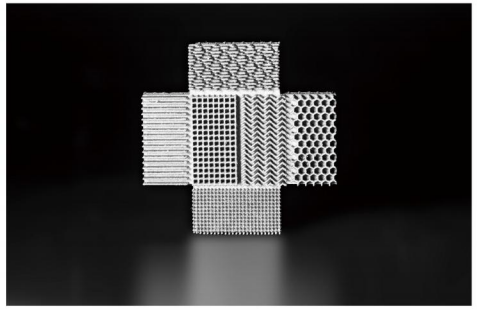




Cultural and creative products

Prototype

Metal 3D printing facilitates prototype manufacturing. Products can be printed directly from 3D data, allowing customers to make modifications to the printed parts and evaluate their feasibility



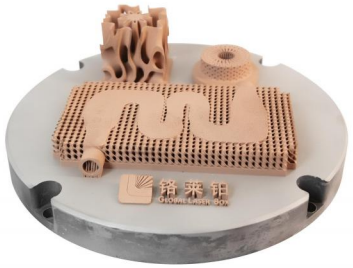




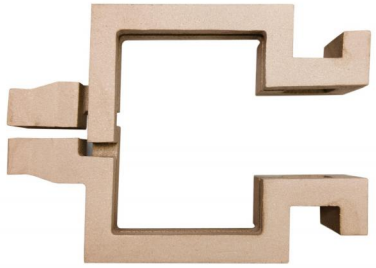


Pure Copper products

Global Laser Box Metal 3D Printing: Breaking Through Pure Copper Forming Challenges, Integrally Forming High Thermal & Electrical Conductivity Pure Copper Components with High Density and Stable, Reliable Performance



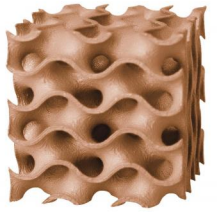
Heat Sink



Heat Sink



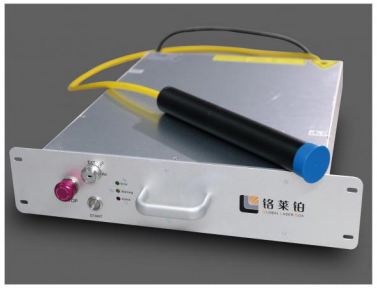
Stepping on Auspicious Clouds



Test Block

Self-developed Laser

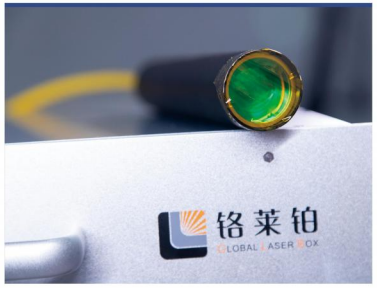
GLB's self-developed lasers have reached the top tier of the industry. With a beam quality M2 ≤ 1.1, approaching the diffraction limit, and power fluctuation ≤ ±0.5%, they enable stable ultra-precision micro-machining, making them ideal for high-end precision manufacturing scenarios such as dentistry and aerospace.



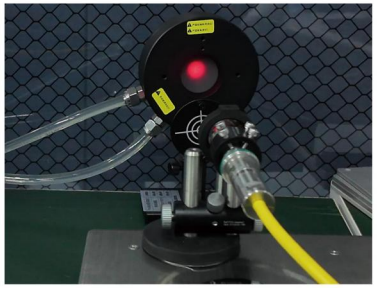
Self-developed Laser



Self-developed Laser



Laser Output Interface



Laser Testing

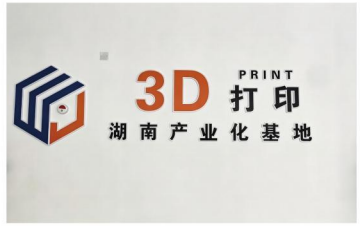
7 Core Advantages







As the group headquarters, Jiangsu Global Laser Box Digital Technology Co., Ltd. boasts a complete R&D system and serves as the R&D base for equipment, processes, software and solutions. Our R&D personnel account for 21% of the total staff, with more than 10 employees holding a master's degree or above.









GLB has four major production bases covering the Yangtze River Delta and central and western regions, equipped with more than 200 metal 3D printing machines. Its delivery capacity ranks among the top in the industry.

8 Sales network

Comprehensive Market Coverage

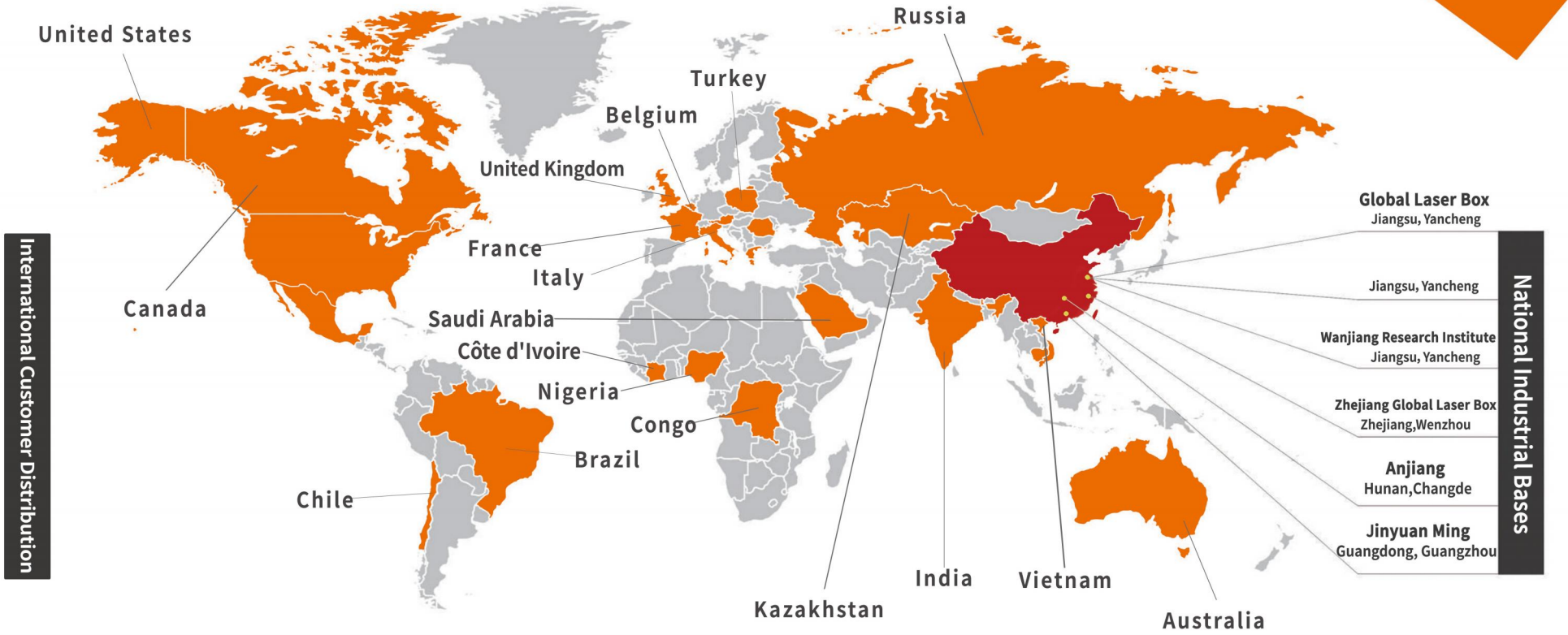
Through the comprehensive layout of domestic and international sales networks, we achieve broad coverage of target markets

Efficient Service System

A complete after-sales service network and logistics service system ensure timely resolution of customer issues and rapid product delivery

Professional Sales Team

We possess professional international and domestic management teams and provide customers with professional and efficient service



GLB has set up industrial bases in Yancheng, Jiangsu,Changde, Hunan, and Wenzhou, Zhejiang. Its sales network reaches India, the United States, Chile, Vietnam, Brazil, Turkey, Belgium, France, Australia, Kazakhstan, and other countries. Also, the number of global regional agents has surpassed 100, so as to boost comprehensive distribution channels across Asia, Europe, Africa, and the Americas