

Digital Dentistry

Metal 3D Printing Solutions



EXPERT ON METAL 3D PRINTING

BIBUS[®]
SUPPORTING YOUR SUCCESS

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Company Introduction

HBD, headquartered in the beautiful city of Zhongshan, with an international branch in Shanghai, is among the first companies in China to commercialize the metal 3D printing (SLM) equipment with R&D, production, sales, and application, provides high quality and full-range metal 3D printing solutions to customers.

In 2007, the HBD founding team stepped into the metal 3D printing industry. With over 10 years' experience of technology application, accumulation and maturity, HBD has been innovating new generations of SLM 3D printing equipment' s software, control system, and technical database unremittingly and obtained more than 100 technical patents and over 20 software copyrights, as well as accumulated powerful expert resources. Relying on the rich experience of market service, combined with innovative modern operation and management concept, HBD has gained a good market share and the public praise. We firmly believe that only stick to the original intention can lead to the bright end.

HBD family devote themselves to be experts in metal 3D printing industry, with the rich and leading-edge technology application and engineering strength, better serving Aerospace, Medical & Dental, Orthopedics, Mold & Die, Automobile, Jewelry, Education & Scientific Research, Personalized Customization and many other industries, to create the greatest value for our customers continuously.



Granted Patents



Software Copyrights

Application Introduction



Dental Application Cases

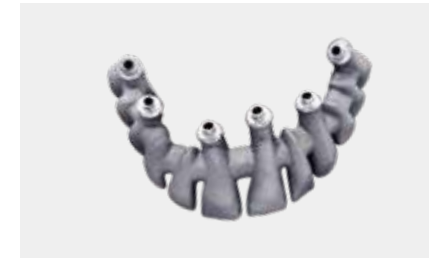
Crowns and Bridges



Removable Partial Dentures



Hybrid Dental Implants



Strict Testing and Quality Control



 **190+** Process Tests

 **30+** Factory Inspections

Select top domestic and foreign suppliers to strictly control parts quality in high standards. More than 190+ tests, including raw materials inspections, processes tests, final inspections, along with long-time printing tests before sending to customers, ensure the quality of each equipment is optimized and same.

Safe and Stable Equipment



- Years' experience in equipment R&D and production bring a large customer base, and highly appreciated equipment quality.
- Dozens of software and hardware security technologies ensure the safety of personnel, equipment and products.
- Long-life multi-stage purification cycle system with independent core deaeration, filter humidification treatment, high efficiency backblowing and other core functions ensure safe use of filter and avoid frequent replacement of filter.
- Excellent chamber seal and chamber atmosphere protection provide lower gas consumption and shorter print preparation time.
- Optimized air circulation in the chamber and automatic air volume monitoring ensure continuous high-quality printing.

Efficient and Accurate Control System

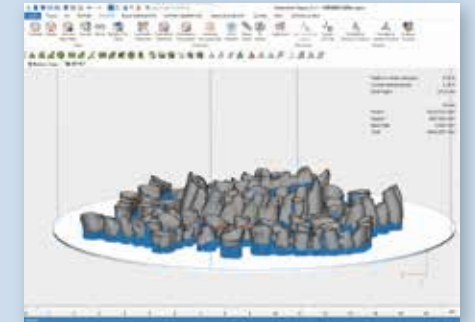
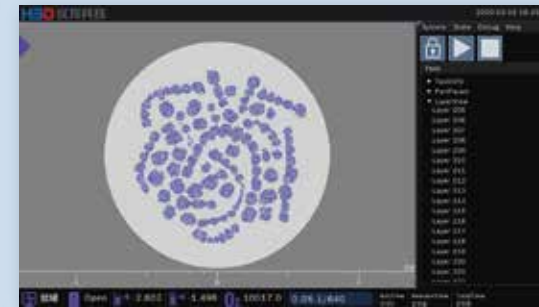


Brand new human-computer interaction interface supports one-click automatic printing, which displays more intuitive information, presents more convenient operation mode, and record more detailed printing data.

Fast and efficient full-range calibration software provides micron-level calibration accuracy, and secondary calibration is available, ensuring long-term high-precision printing.

Professional Customized Version of Dental Data Processing Software for HBD

Magics Print Metal for Hanbang



Equipment and Operation Software

- One-click start, easy to operate
- Multiple security checks
- Complete system operation log monitoring
- Automatic data detection
- Accurate printing time

Data processing software

- One-click automatic layout
- Automatic support generation
- Excellent laser scanning path planning
- Processing time within 10 minutes

Additive Manufacturing
Technology for
Digital Dentistry

HBD-80D

Technical Parameters

Forming Size	Φ120×80mm	Laser Power	200W
Layer Thickness	10μm-40μm	Focus Diameter	40μm-80μm
Units Per Plate	130PCS	Production Efficiency	130PCS/3.5H
Oxygen Content	≤100PPM	Typical Accuracy	0.05-0.1mm
Metal Powder	Co-Cr Alloy, Ti Alloy...		
Protective Atmosphere	Integral sealed, automatic monitoring of oxygen content, recycling cleaning and collection coefficient ≥99%.		



Additive Manufacturing
Technology for
Digital Dentistry

HBD-100D

Technical Parameters

Forming Size	105mm×105mm×100mm	Laser Power	200W
Layer Thickness	10μm-40μm	Focus Diameter	40μm-80μm
Units Per Plate	150-160PCS	Production Efficiency	150PCS/4H
Oxygen Content	≤100PPM	Typical Accuracy	0.05-0.1mm
Metal Powder	Co-Cr Alloy, Ti Alloy...		
Protective Atmosphere	Integral sealed, automatic monitoring of oxygen content, recycling cleaning and collection coefficient ≥99%.		



Industrial Configuration
Customization in Removable
Partial Dentures



HBD-150D

Technical Parameters

Forming Size	Φ159×100mm	Laser Power	200W
Layer Thickness	10μm-40μm	Focus Diameter	40μm-80μm
Units Per Plate	12~17PCS	Production Efficiency	12~17PCS/5~7H
Oxygen Content	≤100PPM	Typical Accuracy	0.05-0.1mm
Metal Powder	Co-Cr Alloy, Ti Alloy...		
Protective Atmosphere	Integral sealed, automatic monitoring of oxygen content, recycling cleaning and collection coefficient ≥99%.		

Industrial Configuration
Customization in Removable
Partial Dentures



HBD-200D

Technical Parameters

Forming Size	270×170×120mm	Laser Power	200W×2
Layer Thickness	10μm-40μm	Focus Diameter	40μm-80μm
Units Per Plate	20~37PCS	Production Efficiency	20~37PCS/7.5~10H
Oxygen Content	≤100PPM	Typical Accuracy	0.05-0.1mm
Metal Powder	Co-Cr Alloy, Ti Alloy...		
Protective Atmosphere	Integral sealed, automatic monitoring of oxygen content, recycling cleaning and collection coefficient ≥99%.		



Excellent Service and Support



Cooperation Begins with Service.

Complete Training System

Complete training system and high standard practice assessment ensure operators would get proficient in the shortest time and quickly bring values to customers.

Lifetime Technical Support

Professional technical and process development team could totally customize the solution for customers in different fields, in compliance with the development of the new materials and new technology, and provide lifelong technical support.

Well-designed Equipment Maintenance Plan

Well-designed equipment maintenance plan, provide professional installation and commissioning services, regular return visits and tracking, new technology timely application sharing, and lifetime equipment maintenance support.

Efficient and Quick Response After-sales Service

Service available 24/7, online response within 2 hours, on-site warranty maintenance within 7 days, to solve customers' problem with the fastest way.

Based in China, Aim at Globe



Partners Customers Distribution Coverage Area