



Expert on Metal 3D Printing

HBD-200D

Additive Manufacturing Technology
for Digital Dental Labs



Six Reasons to Choose HBD-200D



Stability and Efficiency

HBD-200D adopts accurate and stable laser focusing system, with sub-vacuum-level sealed chamber, full closed-loop air volume control circulation purification system, high-speed deoxygenation system, combined with high-precision oxygen content detection, dual pressure sensor detection, dual gated safety control and detection, and active and passive dual pressure relief protection to ensure equipment safety, stability and efficient operation. HBD-200D supports the full base-plate partial dentures printing. Standard crowns and bridges printing efficiency is 450 pcs at less than 7 hours. It is equipped with innovative powder recycler to ensure high powder utilization rate.



Excellent Performance

HBD-200D is equipped with an external purification circulation system, which is in real-time communication with the host machine, real-time monitoring and responding the forming atmosphere. It is also equipped with fully automatic closed-loop purification circulation system, which is with pulse automatic full-scale rotation dust removal function; secondary filtration structure. With these configurations, the overall filtration efficiency may reach H13 standard. The total service life of the filter could be more than 2000 hours, and could meet the printing tasks of high-intensity, long-term and continuous production.



Security Upgradation

The model is equipped with a sealed glove structure, and a sealed tank for adding powder and powder suction, which is reserved for powder addition and powder cleaning operations without opening the chamber door, avoiding powder contact with air to the greatest extent and reducing the direct contact of the operator with powder, effectively ensuring the equipment safety when printing active metals such as titanium alloys.



Easy Operability

With the ergonomic design, a user-friendly device operation interface, intelligently realizes one-key start, one-key print function, minimizing the operation process, shortening operating time and lowering operation errors probability.



Material Diversity

Parameter packages of titanium alloy, cobalt chromium alloy and other materials will be provided. We offer open powder system and could cooperate to test the third party materials and provide the process parameters.



Data Processing Software

HBD-200D is deep customization with Magics Print Metal for HanBang, the dental data processing software of Materialise. The software realizes automatic laying out, automatic support adding, intelligent slicing and scanning path planning, which implements in-depth docking with equipment execution software, is automatic error correction, and simple operation.

Compatible CAD Software

HBD-200D is suitable for the most of CAD software, including 3Shape, Exocad, Dental Wings, etc.

Technical Parameters

| | |
|-----------------------|--------------------------------|
| Laser System | Fiber Laser / 200W×2 |
| Forming Size | 270×170×120mm |
| Layer Thickness | 10-40μm |
| Focus Diameter | 40-80μm |
| Max Scanning Speed | 10m/s |
| Typical Accuracy | 0.05-0.1mm |
| Inert Gas | Nitrogen or Argon |
| Power Supply | 110/220VAC, 50/60Hz |
| Production Efficiency | Partial Dentures: 450 PCS < 7H |
| Metal Powder | Co-Cr Alloy, Ti Alloy... |
| Machine Dimension | 1780x1380x1900mm(L*W*H) |
| Machine Weight | 1100kg |



Dental Application

HBD-200D is used for manufacturing dental products such as crowns, bridges, implants, caps, bars, brackets, model casting and personalized customization,etc., with high density and perfect fit for patients.



HBD Partners & Customers



Shanghai Hanbang United 3D Tech Co., Ltd.

Tel: +86 21 3412 6391 (Direct Line)

Address: Building #30, Jinlinggu Science Park, No. 525, Yuanjiang Road, Minhang District, Shanghai 201109, China

Guangdong Hanbang 3D Tech Co., Ltd.

Tel: +86 760 8996 5021

Address: Hongji E Valley, No. 23, Tongji Road West, Nantou Town, Zhongshan, Guangdong 528427, China

Email: sales@hb3dp.com

Website: en.hb3dp.com

