

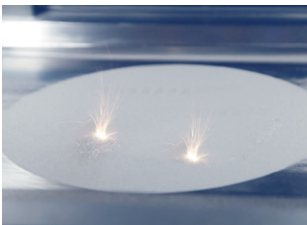


Expert on Metal 3D Printing



# HBD-150D System for Digital Dental Labs

## Why HBD-150D

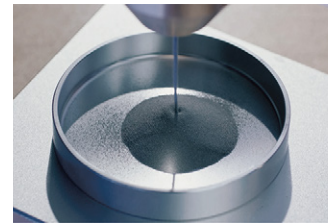


### High Printing Capacity

HBD-150D supports full base-plate printing with the capability to produce 235 dental crowns in a single print. It can efficiently print 200-230 units in just 3-4 hours. For standard partial dentures, it achieves a printing efficiency of 12 to 14 pieces within 3-3.5 hours.

### Material Compatibility and Process Parameters

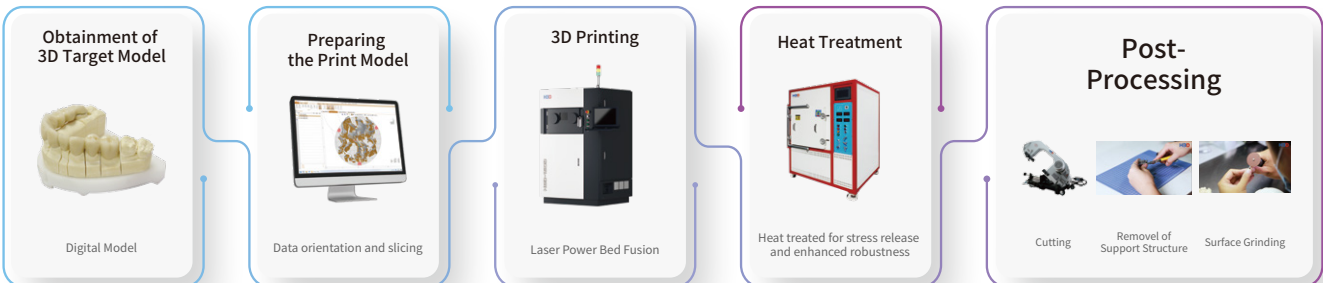
HBD-150D offers parameter packages for various materials, including titanium alloy and cobalt chromium alloy. It supports an open powder system and can collaborate with third-party material testing and provide process parameters accordingly.



### Dental Data Processing Software

HBD-150D comes with deep customization through dental data processing software. The software offers automatic layout, support addition, intelligent slicing, and scanning path planning, seamlessly integrating with equipment execution software for automatic error correction and easy operation.

## HBD 3D Printing Process for Dental Applications



## 3D Print Cases



Crowns



Implant Parts



Surgical Guides



Framework



Loop Space Maintainer



Bridges



Titanium Mesh



Subperiosteal

## Technical Parameters

Forming Size	Φ159mm × 100mm
Laser Power	300W / 300W × 2
Layer Thickness	10μm-50μm
Scanning Track Width	40μm-80μm
Scanning Speed	≤ 10m/s
Oxygen Content	≤ 100PPM
Protective Atmosphere	Integral sealed, automatic monitoring of oxygen content, recycling cleaning and collection coefficient ≥ 99%.
Relative Density	99.9%+
Typical Accuracy	0.05-0.1mm
Metal Powder	Stainless steel, Cobalt-chrome alloy, Tool steel, Titanium alloy, High temperature alloy, Hastelloy, Tungsten, Tantalum and some other refractory metals.
Software Package	Full opening within hardware allowed.
Processing Parameter Package	Equipped and customizable.
Weight	900/950KG
Host dimensions	1150mm × 1150mm × 1830mm



## About Us



### Global leader

Recognized globally for developing and manufacturing metal additive manufacturing equipment, with over 200 patents and prestigious certifications.



### Innovation and quality

Continuous improvement and technological advancements to keep customers ahead.



### Cutting-edge solutions

Acclaimed metal 3D printing machines installed in 25+ countries, offering advanced capabilities.



### Tailored to industries

Customized metal additive manufacturing solutions for dental, orthopedic, automotive, aerospace and more.

✉ Email:  
info@hb3dp.com

🌐 Website:  
en.hb3dp.com

📍 Global Offices: Shanghai, China  
Zhongshan, China  
Munich, Germany