

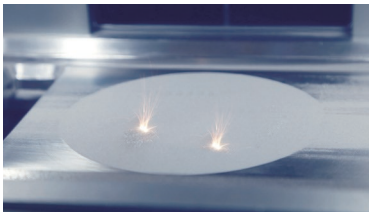
HBD 150D

Metal Additive Manufacturing System

Revolutionizing Dental Labs with Precision 3D Printing
for Digital Dentistry

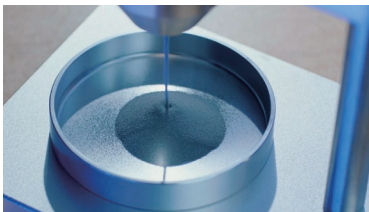


► WHY HBD 150D?



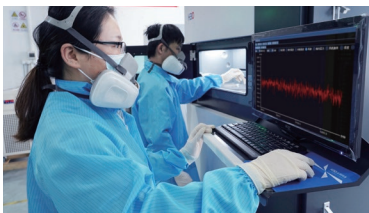
High Printing Capacity

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

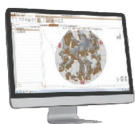
HBD 150D offers parameter packages for various materials, including titanium alloy and cobalt chromium alloy. It supports an open powder system and can collaborate with third-party material testing and provide process parameters accordingly.



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



Preparing the Print Model
Data orientation and slicing



3D Printing
Laser powder bed fusion



Heat Treatment
Heat treated for stress release
and enhanced robustness



Cutting



Removal of
Support Structure



Surface Grinding

Post-processing

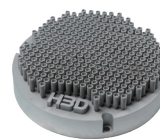
► 3D Print Cases



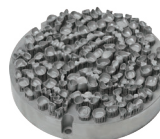
Orthodontic Brackets

Industry : Dental
Material : Cobalt-Chrome
Size : 41*61*35.3mm
Weight : 12g
Quantity : 16
Time : 3h 32min

Metal 3D printing technology can achieve the printing of complex lattice structure framework, thereby improving strength-to-weight ratio, and precisely adapting to the individual oral structure of patients, ultimately enhancing the comfort, functionality, and lifespan of dental restorations.



Dental Implants



Dental Crown



Full-page Dental Restoration and Implant

► Technical Parameters

Build Volume	φ158mm × 100mm(height incl. build plate)	
Laser Power	1 Laser, 300W	2 Lasers, 300W
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	Titanium alloy, cobalt-chromium alloy, stainless steel, mold steel, etc.	
Process Parameter Configuration	Tailored parameter set for the specific application, user-modifiable	
Weight	Est. 950kg	
External Dimensions	1150mm × 1150mm × 1830mm	
Power Supply	AC220V, 50/60Hz, peak power ≤4.3-4.5kW, average power ≤2.8-3kW	
Optional Features	Long-Lasting Purification System	

► About Us



Global Recognition

Recognized globally for developing and manufacturing metal additive manufacturing equipment, with over 500 patents and prestigious certifications.



Innovation and Quality

Continuous improvement and technological advancements to keep customers ahead.



Tailored to Industries

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



Cutting-edge Solutions

Acclaimed metal 3D printing machines installed in 40+ countries, offering advanced capabilities.

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