



Expert on Metal 3D Printing

HBD-200D System for Digital Dental Labs



Why HBD-200D

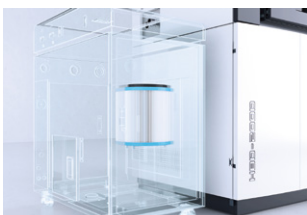


Stability and Efficiency

HBD-200D, a revolutionary leap in laser focusing technology. Its sub-vacuum sealed chamber, closed-loop air circulation, and high-speed deoxygenation system ensure utmost precision and safety. Dual pressure sensors, oxygen detection, and safety measures guarantee stable and secure operation. The innovative powder recycler boosts powder usage, optimizing results. Experience the future with HBD-200D: where stability meets efficiency.

Material Diversity

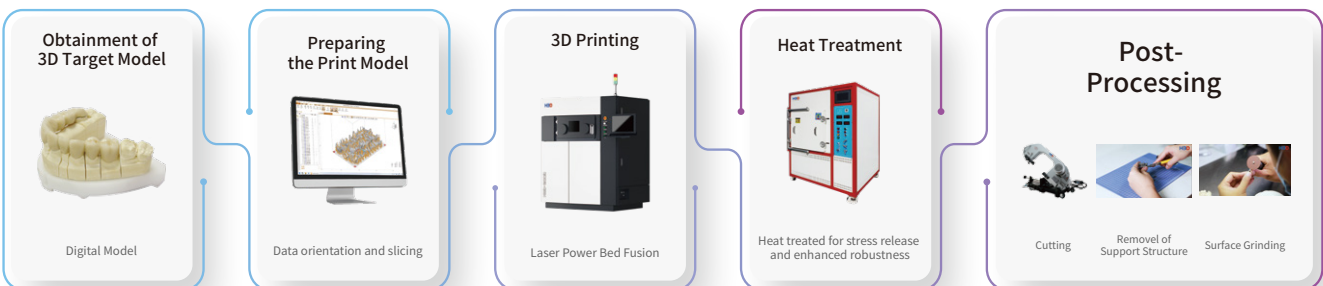
We provide parameter packages for titanium alloy, cobalt chromium alloy, and other materials. We also offer an open powder system and can collaborate on testing third-party materials to provide their respective process parameters.



Impressive Performance

The HBD-200D comes with an external purification circulation system that communicates in real-time with the host machine to monitor and adjust the printing atmosphere. It also features an automatic closed-loop purification circulation system with advanced dust removal and secondary filtration. These enhancements ensure a high filtration efficiency meeting H13 standards. Moreover, the filter's long service life of over 2000 hours makes it perfect for demanding, continuous printing tasks.

HBD 3D Printing Process for Dental Applications



3D Print Cases



Bridges



Implant Parts



Implant Bridge



Subperiosteal



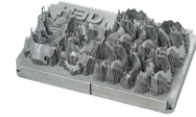
Mandible



Loop Space Maintainer



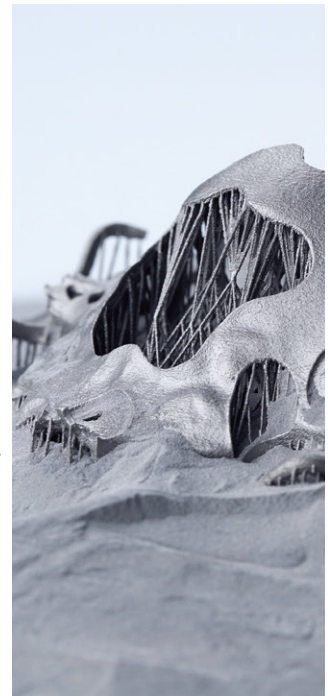
Titanium Mesh



Denture Frameworks

Technical Parameters

Forming Size	270mm×170mm×120mm
Laser Power	300W×2
Layer Thickness	10μm-40μm
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	1100KG
Host dimensions	1780mm×1380mm×1900mm



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.

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