

HBD 500

Metal Additive Manufacturing System

Tailored Metal Additive Manufacturing Systems for the Precision Manufacturing Profession

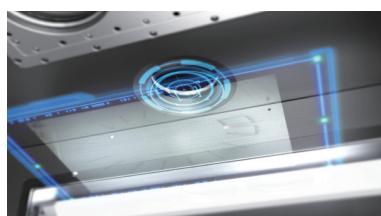


► WHY HBD 500?



Spacious Build Volume

Benefit from a generous build volume, allowing for the production of larger metal components with high precision.



Intelligent Powder Recoating Monitoring System

The HBD 500 is equipped with monitoring system that ensures efficient powder recoating, optimizing print quality and production processes.



Marble Structure for Enhanced Stability and Accuracy

Designed with a marble structure, the HBD 500 offers improved long-term stability and printing accuracy in metal additive manufacturing operations.



Convenient Front and Rear Hatches

Featuring front and rear hatches, the HBD 500 provides easy access for part removal and cleaning, enhancing user convenience during operation.

► 3D Print Cases



Valve Body

Industry: Aerospace

Material: Ni718

Size: 380*419*185mm

Weight: 17982g

Time: 104h 15min



Topology Optimized Structural Components



Radiator



Automotive Part



Heat Exchanger

The metal 3D printing technology is used to re-optimize the design of the cooling channels to speed up the flow paths, and the cooling flow paths are uniform, which ensures even flow and high heat dissipation efficiency.

► Technical Parameters

Build Volume	430mm × 520mm × 520mm (height incl. build plate)		
Laser Power	2 Lasers, 500W/1000W	4 Lasers, 500W/1000W	6 Lasers, 500W/1000W
Layer Thickness	20μm-120μm		
Scanning Track Width	70μm-200μm		
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	0.05-0.2mm		
Metal Powder	Titanium alloy, aluminium alloy, high temperature alloy, stainless steel, mold steel, etc.		
Process Parameter Configuration	Tailored parameter set for the specific application, user-modifiable		
Weight	Est. 4500kg		
External Dimensions	2280mm × 1560mm × 2570mm		
Power Supply	500W: AC380V, 50/60Hz, peak power ≤ 16-16.5kW, average power ≤ 6.5-7kW 1000W: AC380V, 50/60Hz, peak power ≤ 17-18kW, average power ≤ 7.5-8.5kW		

► About Us



Global Recognition

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.



Tailored to Industries

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



Cutting-edge Solutions

Acclaimed metal 3D printing machines installed in 37 countries, offering advanced capabilities.

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