

HBD 800

Metal Additive Manufacturing System

Power up stability and efficiency
with HBD 800



► WHY HBD 800?



Enhanced System Stability

Smart dual-direction recoating with variable speed enables real-time monitoring and correction for consistent powder spreading. An optimized airflow system reduces spatter and ensures stable, high-quality printing.



Beam Shaping – 'Guangchi II'

(Optional)

Integrating precision beam shaping with optimized scanning strategies.

HBD's Guangchi II enables high-efficiency forming with dramatically reduced spatter vs. Gaussian beams.



Boosted Production Efficiency

With ten synchronized lasers and a self-developed galvanometer system, the HBD 800 delivers consistently high build quality. Multiple stitching strategies allow for automatic calibration in under 5 minutes, achieving seamless alignment with 30μm precision.



Industrial Simplicity, Built-In Safety

Proven in large-scale production, our mature platform delivers reliability through continuous optimization. Its closed-loop powder system automates feeding, recycling, and sieving, while H13+ filtration and redundant safety features ensure safe 24/7 operation.

► HBD Industrial-Grade Additive Manufacturing Solutions



► 3D Print Cases



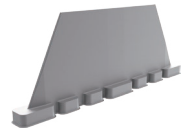
Drone Frame

Industry : Aerospace
Material : AlSi10Mg
Size : 740*740*104mm
Weight : 4.79kg
Time : 30h 27min

The drone frame adopts a bionic structural design, incorporating topology optimization elements of lightweight design, lower battery and energy consumption, and further enhance the performance of the drone.



Thrust Chamber



Aircraft Control Surface



Large Aerospike Rocket Nozzle



Engine Impeller

► Technical Parameters

Build Volume	830mm × 830mm × 1250mm (height incl. build plate)
Laser Power	10 Lasers, 500W/1000W
Layer Thickness	20μm-120μm
Scanning Track Width	80μm-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 Alloys, Aluminum Alloys, Superalloys, Stainless Steels, Tool Steels, etc.
Process Parameter Configuration	Tailored parameter set for the specific application, user-modifiable
Weight	Est. 18000kg
External Dimensions	7850mm × 4050mm × 4880mm
Power Supply	500W: AC380V, 50/60Hz, peak power ≤ 50-55kW, average power ≤ 23-28kW 1000W: AC380V, 50/60Hz, peak power ≤ 55-60kW, average power ≤ 28-33kW

► 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 dental, orthopedic, automotive, aerospace and more.



Cutting-edge Solutions

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

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