



Expert on Metal 3D Printing

HBD E1000

Metal Additive Manufacturing System



Why HBD E1000

Highly Integrated Auxiliary Equipment

Seamless integration of auxiliary components for enhanced performance.

Real-time Powder Quality Monitoring

Continuous monitoring of powder quality ensures consistent results.

Precision Laser Management System with 8 Laser Seam Integration

Advanced laser control system with seamless integration of 8 lasers.

Build Dimensions of 660*660*1250mm

Offers a substantial build volume for versatile manufacturing.

Unidirectional/Bidirectional/Smart Variable Powder Deposition

Versatile powder deposition options for tailored production.

Innovative Quick-Change Blade Clamp Structure

Revolutionary blade clamp design allows for easy and precise tool replacement.

Optimized Wind Field Structure

Enhanced airflow design for superior part quality.

Permanent Filtration System

Long-lasting filtration system ensures a clean and sustainable operation.

Real-time Thermal Imaging Monitoring

Continuous thermal imaging monitoring ensures quality control.

Adjustable Powder Recovery Box Height

Flexibility in powder recovery box height to accommodate various needs.

Mobile Powder Cleaning System

Seamless integration of auxiliary components for enhanced performance.

Safety-Interlocked Retrieval Compartment

Secure and safety-focused retrieval compartment with interlock features.

3D Print Cases



Heat Exchanger



Aircraft Engine Mount



Cooling Manifold



Aero-Engine



Barrel



Turbine



Topology Optimized Structural Components



Housings

Technical Parameters

Forming Size	660mm×660mm×1250mm(height incl.build plate)
Laser Power	500W×8
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	Stainless steel, cobalt-chrome alloy, Hastelloy, Titanium alloy, Nickel-based alloy, Tool Steel, Aluminum alloy, and some refractory metals like Tungsten and Tantalum
Software Package	Full open as hardware allowed
Processing Parameter Package	Equipped and customizable
Weight	16000KG
External Dimensions	7050mm×3630mm×4480mm



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 aerospace, automotive and more.

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