



Expert on Metal 3D Printing



# HBD 1200

## Metal Additive Manufacturing System

### Why HBD 1200



#### Large Printing Volume

With a maximum forming size of 430x460x1200mm. It can simultaneously print large parts or batch-produce multiple small parts.



#### Rapid Prototyping

The system comes with high-performance modeling software, allowing users to quickly import 3D models.



#### Advanced Powder Management

Equipped with an advanced powder management system, including automatic powder supply, powder recovery, and filtration, minimizing powder wastage.



#### Material Versatility

Supports diverse metal materials for various applications. Including titanium alloys, stainless steel, and aluminum alloys.



#### Intelligent Temperature Control

Ensures temperature stability during the printing process, minimizing thermal stress and improving material strength and durability.



#### High Efficiency Manufacturing

Utilizes 500W high power laser and high speed scanning system of up to 10000mm/s for rapid printing.



#### Remote Monitoring and Management

Allowing users to remotely monitor device status, enabling remote management and maintenance.



#### Safety and Reliability

The equipment is equipped with multiple safety measures, including firewalls, automatic shutdown on faults, emergency stop buttons, etc.

## 3D Print Cases



Heat Exchanger



Aircraft Engine Mount



Hydrogen Energy Reactor



Aero-Engine



Radiator Part



Impeller



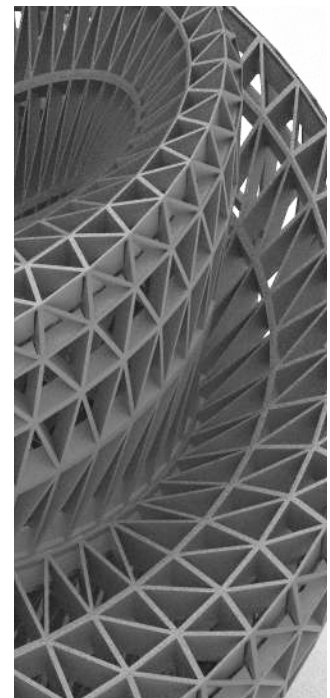
Vehicle Conformal Cooling Nozzles



Oxidizer Body

## Technical Parameters

Forming Size	430mm × 460mm × 1200mm
Laser Power	500W × 2
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	Nearly 100%
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	12000KG



## 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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