



Expert on Metal 3D Printing

# HBD E500 Aerospace and Advanced Industries Customized

Forming Size: 430mm × 520mm × 520mm



## Why Choose HBD E500 Metal Additive Manufacturing System?

- Optimized purification circulation and gas flow
- High-efficiency & multi-lasers, optional dual or triple laser
- Intelligent powder recoating monitoring system
- Unique marble material ensures long-term stability of high precision
- Front and rear two doors for easier pickup and cleaning
- Perfect powder closed-loop management system
- Born for Serial production to maximum productivity



Dual or Triple  
500W Laser option



Mainstream Size



Top Powder  
Supply



Bidirectional  
Recoating



Closed Cycle  
System



Flexible Powder  
-feeding System

## Print Case



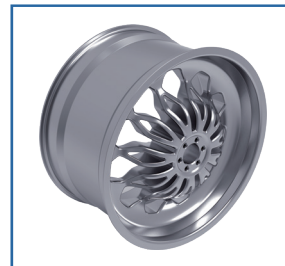
**Engine Impeller**

Metal Powder: AlSi10Mg



**Exhaust Mixer**

Metal Powder: 316L



**Hub**

Metal Powder: Ti6Al4V

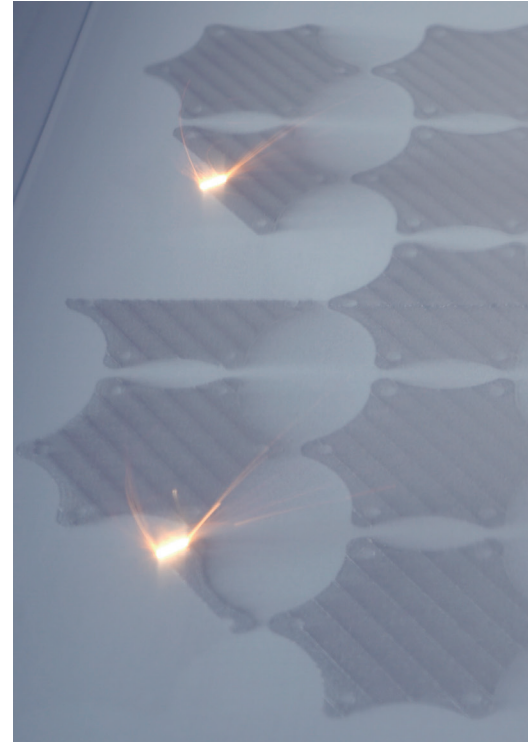


**Combustor**

Metal Powder: Ni718

# HBD E500 Technical Parameters

|                                      |  |
|--------------------------------------|--|
| <b>Forming Size:</b>                 | 430mm×520mm×520mm  |
| <b>Laser Power:</b>                  | 500W×2 / 500W×3  |
| <b>Layer Thickness:</b>              | 30μm-100μm   |
| <b>Scanning Track Width:</b>         | 70μm-200μm   |
| <b>Scanning Speed:</b>               | ≤10000mm/s   |
| <b>Oxygen Content:</b>               | ≤100PPM  |
| <b>Protective Atmosphere:</b>        | Integral sealed, automatic monitoring of oxygen content, recycling cleaning and collection coefficient ≥ 99%   |
| <b>Relative Density:</b>             | Nearly 100%  |
| <b>Typical Accuracy:</b>             | 0.05-0.2mm   |
| <b>Metal Powder:</b>                 | Stainless steel, Cobalt-chrome alloy, Tool steel, Titanium alloy, High temperature alloy, Aluminum alloy, Hastelloy, and some refractory metals like Tungsten and Tantalum |
| <b>Software Package:</b>             | Full open as hardware allowed  |
| <b>Processing Parameter Package:</b> | Equipped and customizable  |



# Powder Management System



Shanghai Hanbang United 3D Tech Co., Ltd.  
Tel: +86 21 3412 6391  
Address: Building #30, Jinlinggu Science Park,  
No. 525, Yuanjiang Road, Minhang District,  
Shanghai 201109, China

Guangdong Hanbang 3D Tech Co., Ltd.  
Tel: +86 760 8996 5021  
Address: Hongji E Valley, No. 23,  
Tongji Road West, Nantou Town, Zhongshan,  
Guangdong 528427, China



Email: [sales@hb3dp.com](mailto:sales@hb3dp.com)  
Website: [en.hb3dp.com](http://en.hb3dp.com)

