



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



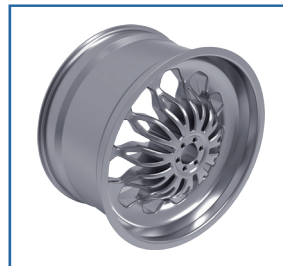
Engine Impeller

Metal Powder: AlSi10Mg



Exhaust Mixer

Metal Powder: 316L



Hub

Metal Powder: Ti6Al4V

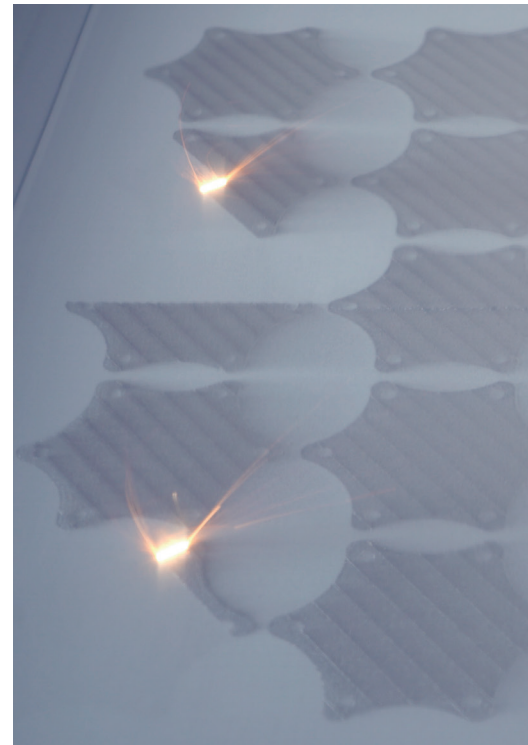


Combustor

Metal Powder: Ni718

HBD E500 Technical Parameters

Forming Size:	430mm×520mm×520mm
Laser Power:	500W×2 / 500W×3
Layer Thickness:	30μm-100μm
Scanning Track Width:	70μm-200μm
Scanning Speed:	≤10000mm/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, Tool steel, Titanium alloy, High temperature alloy, Aluminum alloy, Hastelloy, and some refractory metals like Tungsten and Tantalum
Software Package:	Full open as hardware allowed
Processing Parameter Package:	Equipped and customizable

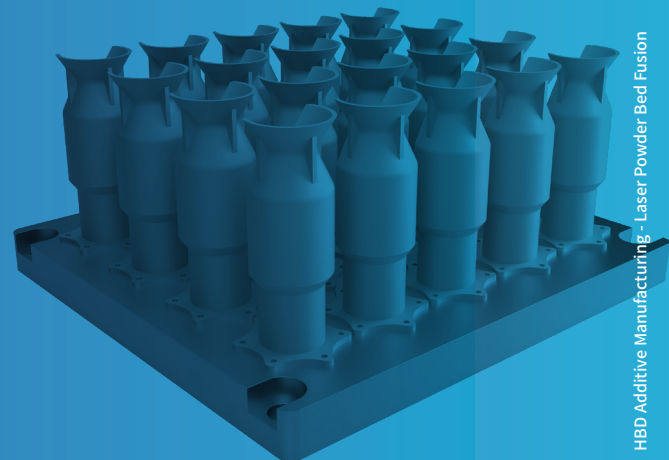


Powder Management System



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HBD Additive Manufacturing - Laser Powder Bed Fusion