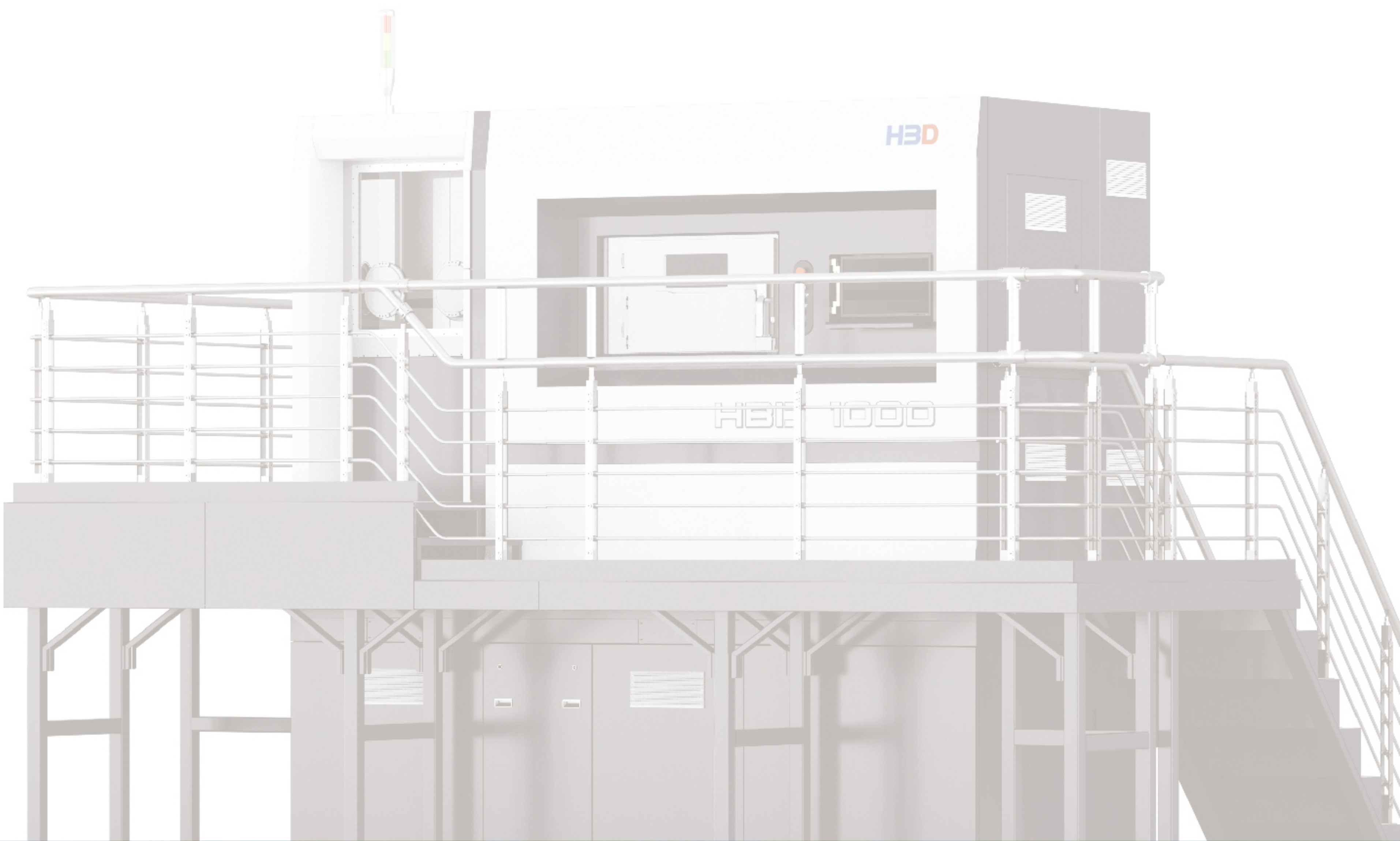




Expert on Metal 3D Printing

HBD 1000



HBD 1000 is an ideal solution for advanced industrial manufacturers of aerospace, engine, automotive, and energy-related products.

Reliable

Productive

Flexible

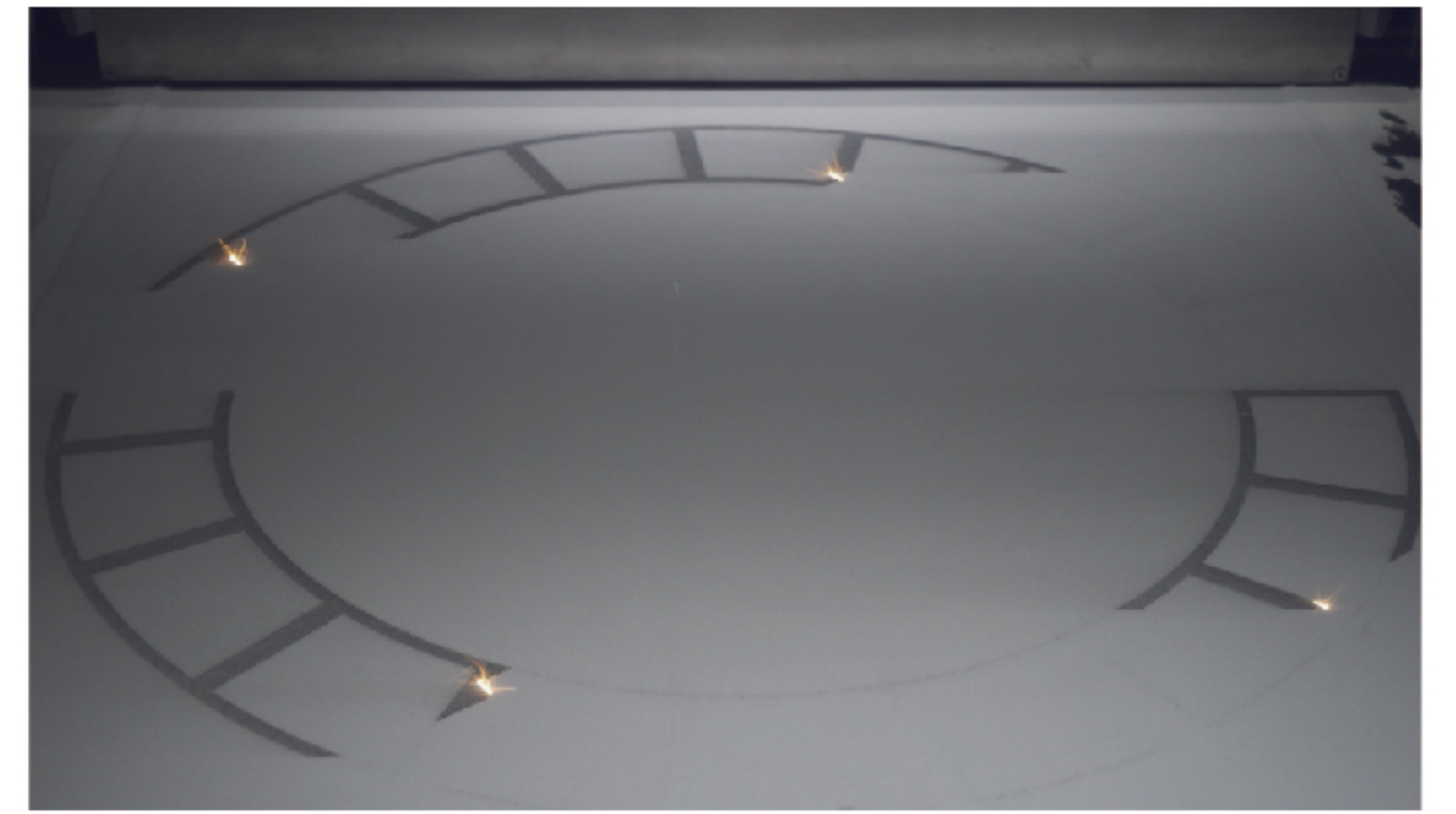
HBD 1000 is a four-laser high-quality and large-size 3D printing system.



Closed automatic powder circulation system, independent long-term multi-stage purification system, highly integrated post-processing unit for 7 × 24h uninterrupted running to meet the large dimension, high intensity, continuous high-volume production, perfect match for aerospace, automotive parts manufacturing.

HBD 1000 Technical Parameters

Forming Size	600mm × 600mm × 1000mm (including build plate thickness)
Laser Power	500W × 4 / 1000W × 4
Layer Thickness	30μm-120μm
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	HBD System; HBD Build Expert
Processing Parameter Package	Equipped and customizable
Inert Gas Protection	Ar/N ₂
Power Supply	AC380V, 50/60Hz
Dimensions	4000mm × 1700mm × 4800mm
Weight	12000kg

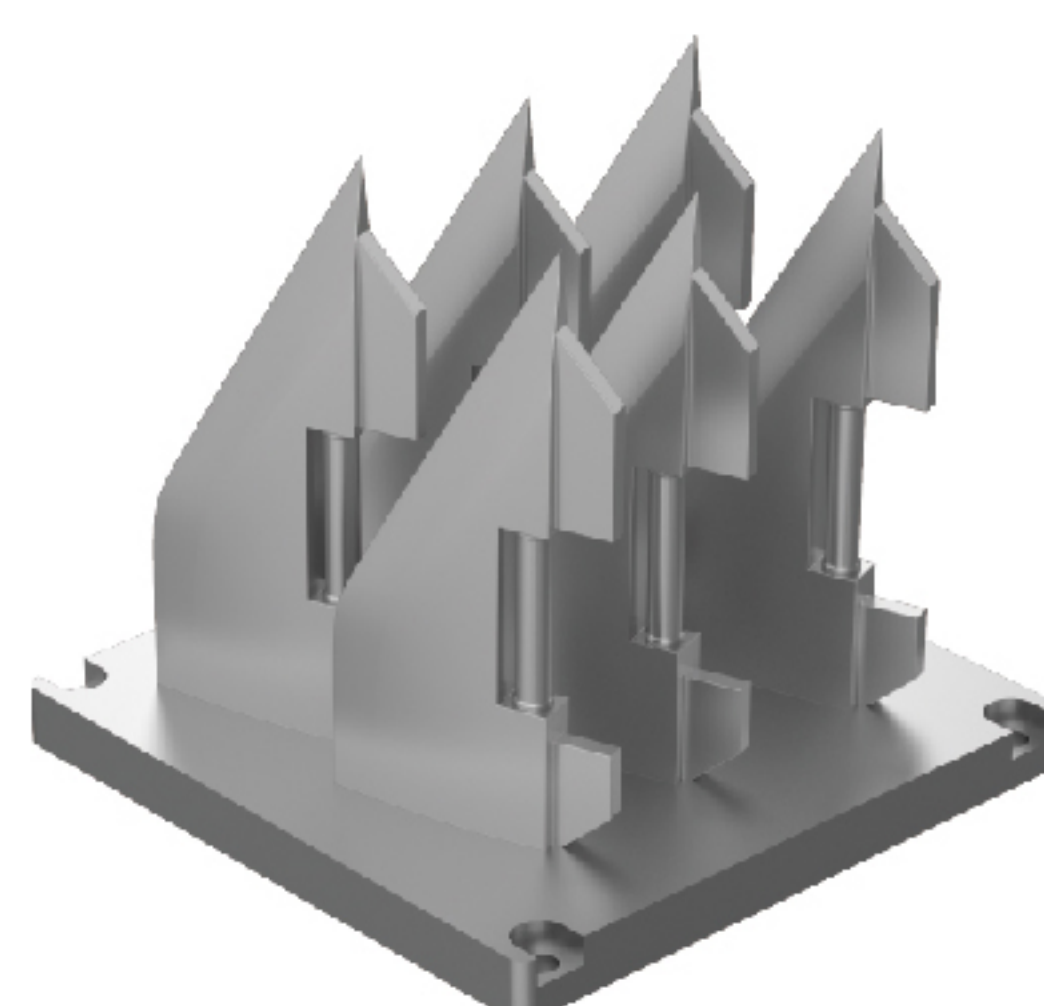


- Four lasers for high production efficiency
- Mainstream Size
- Top Powder Supply
- Bidirectional Recoating
- Closed Cycle System
- CE certified

Print Case



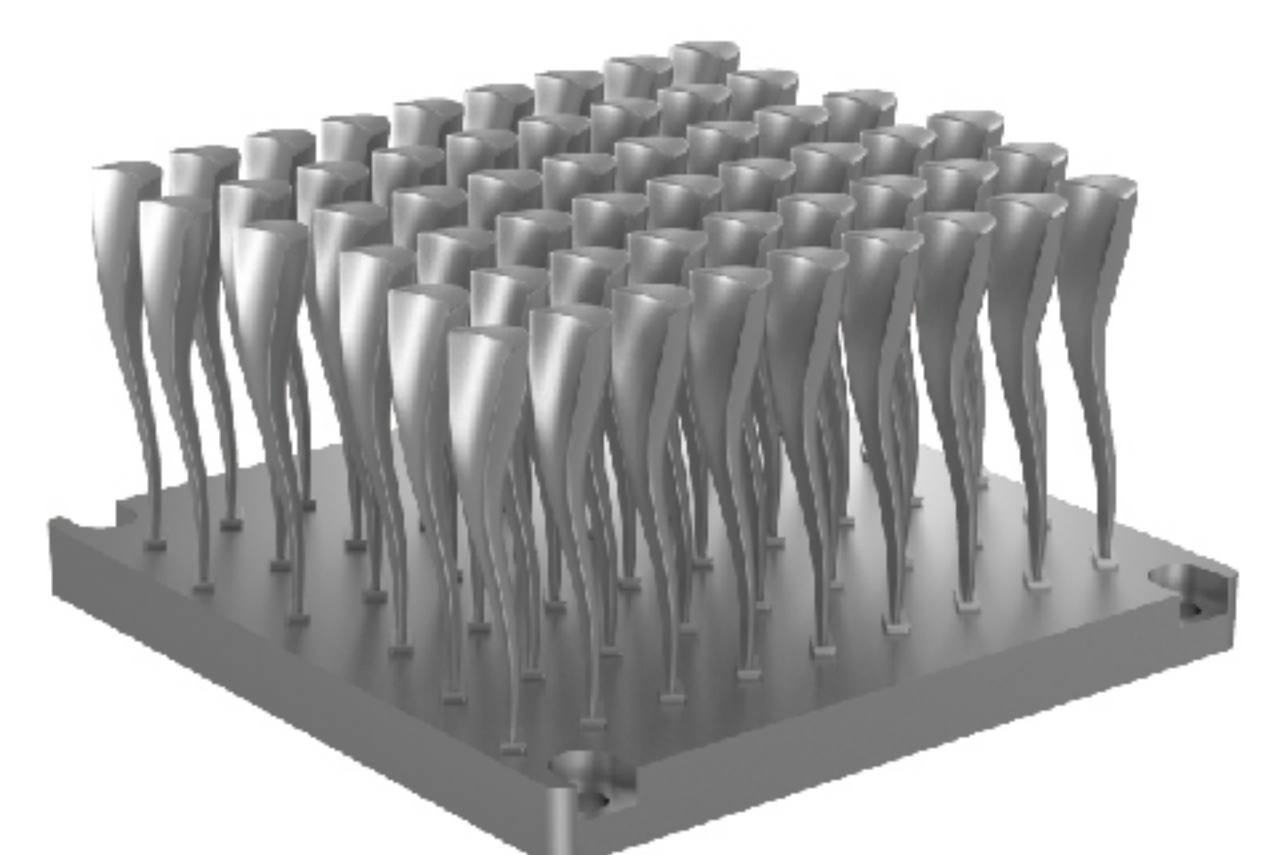
Combustion Chamber



Rudder Component



Hub



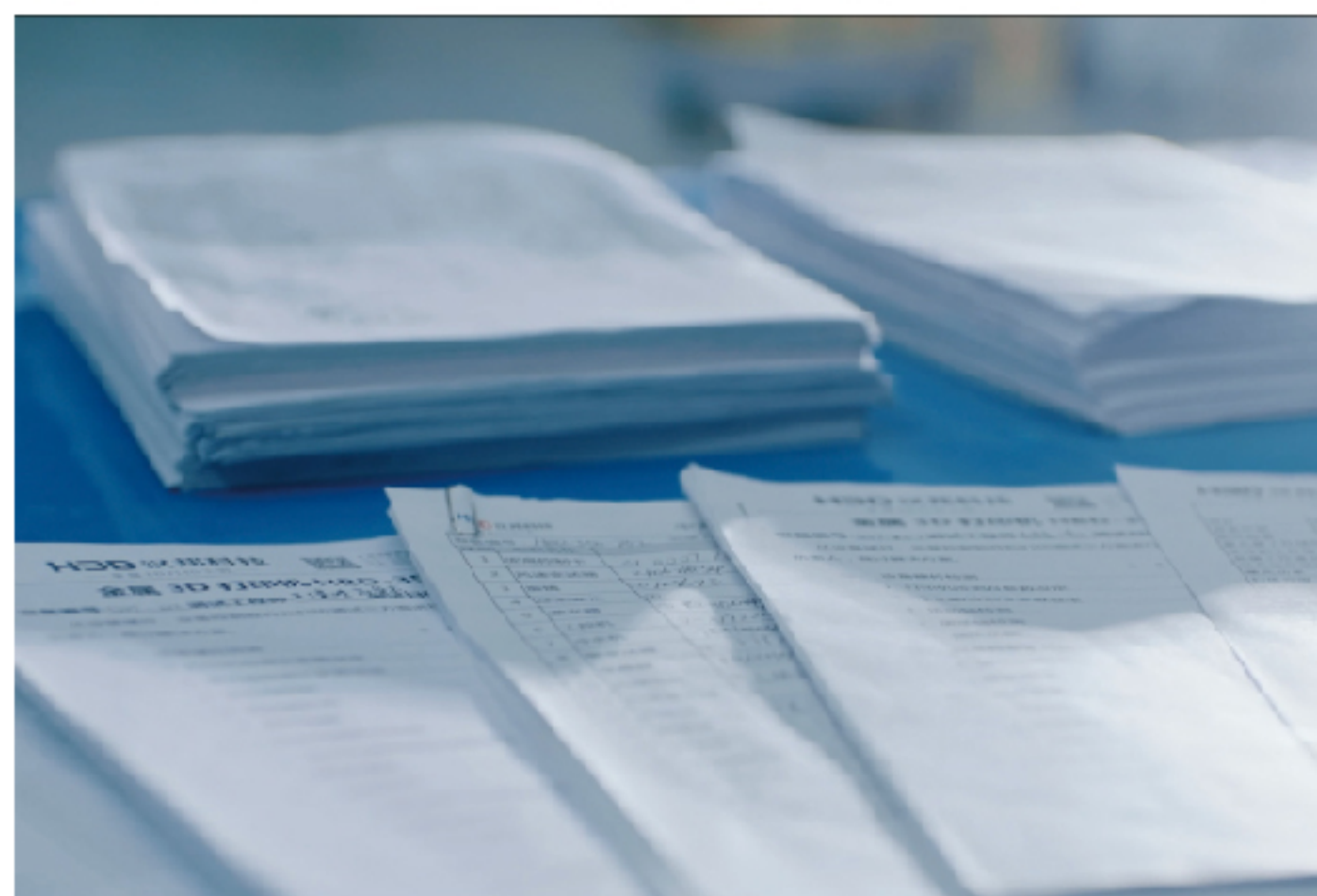
Aircraft Blades

Why choose HBD 1000 system for your reliable additive manufacturing?



The Latest and Standardization Technology

- The Leading Laser System and Circulating Filtering System



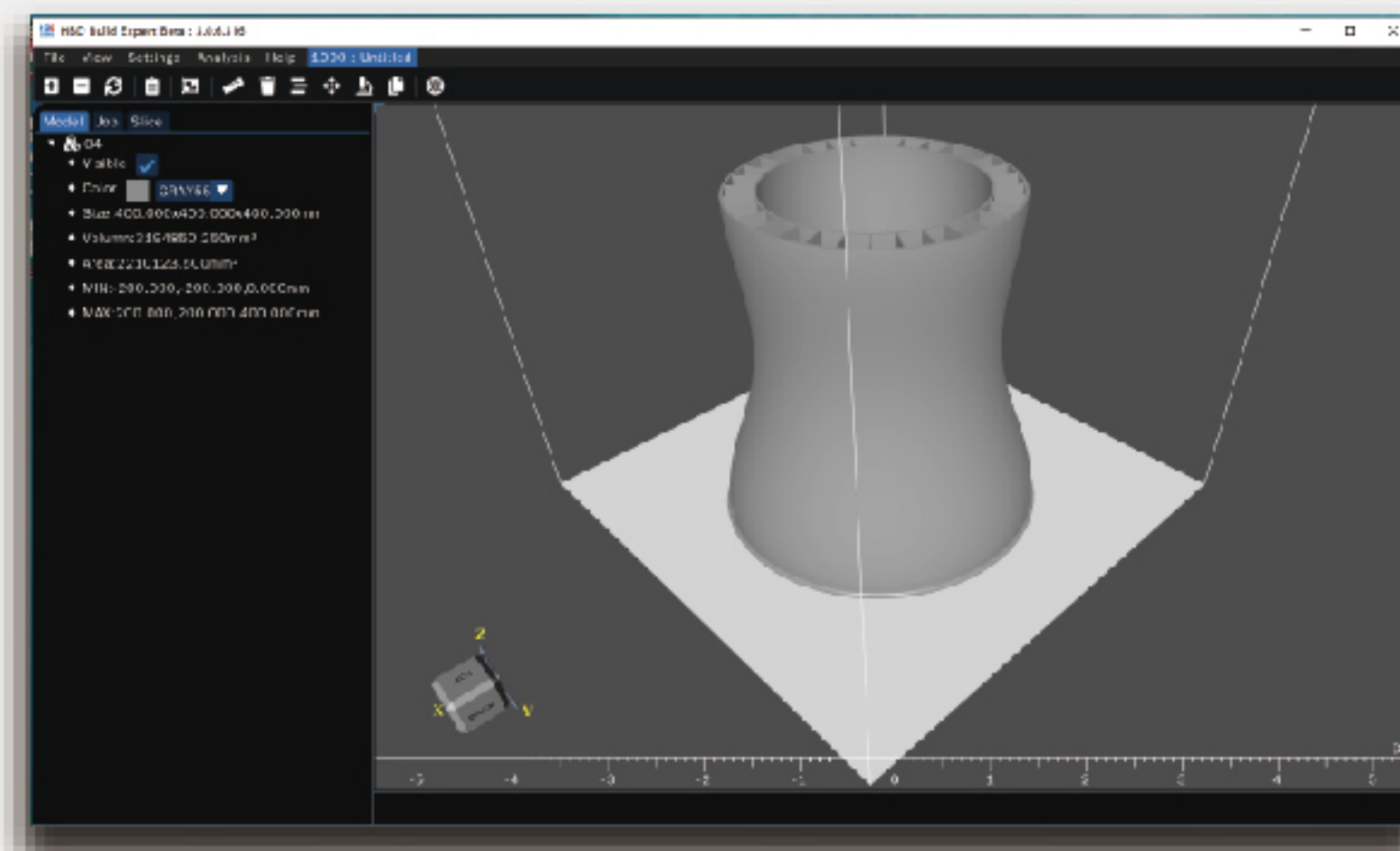
- Workflow optimization and safe operation



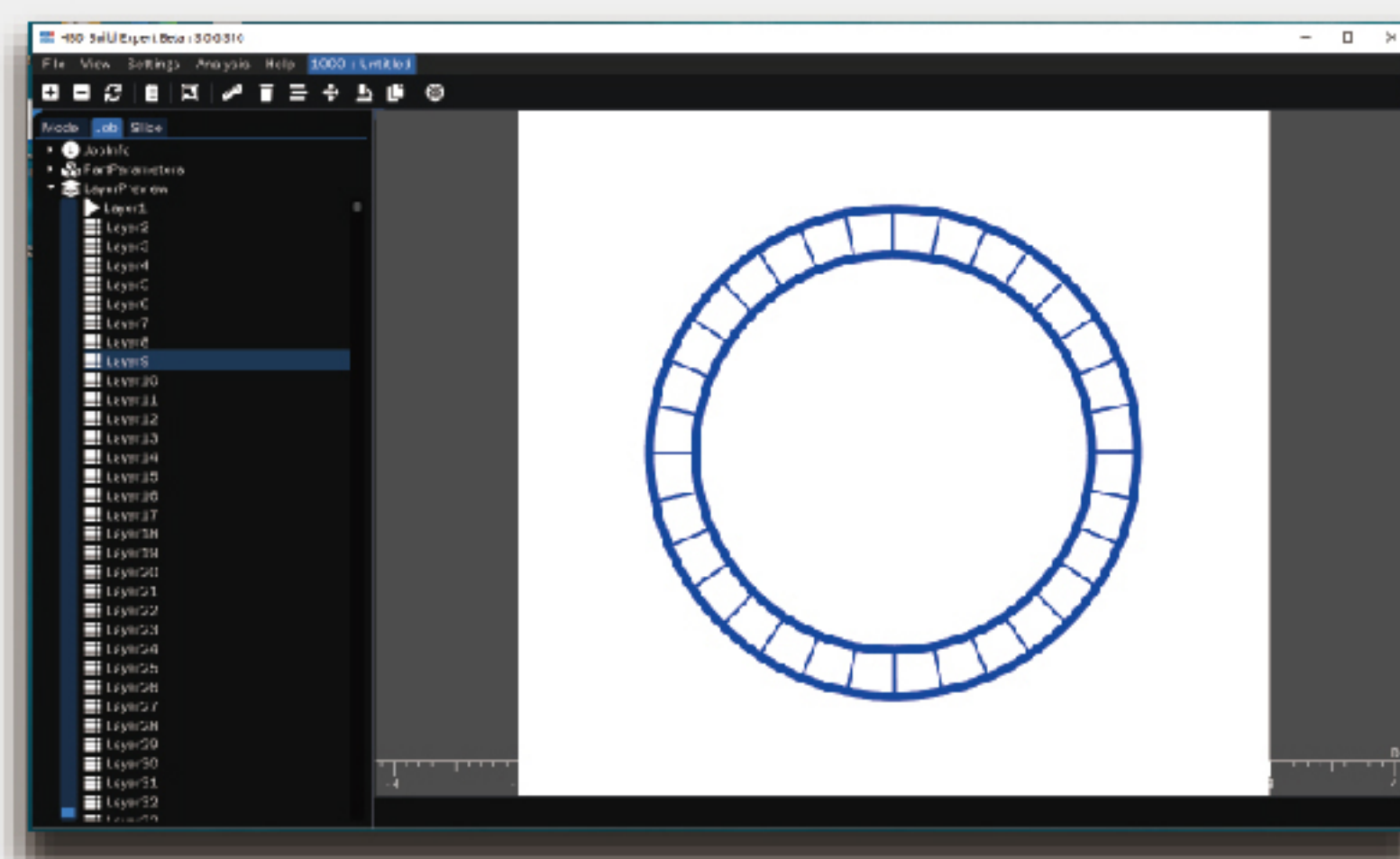
HBD Additive Manufacturing Laser Powder Bed Fusion

Superior Printing Quality

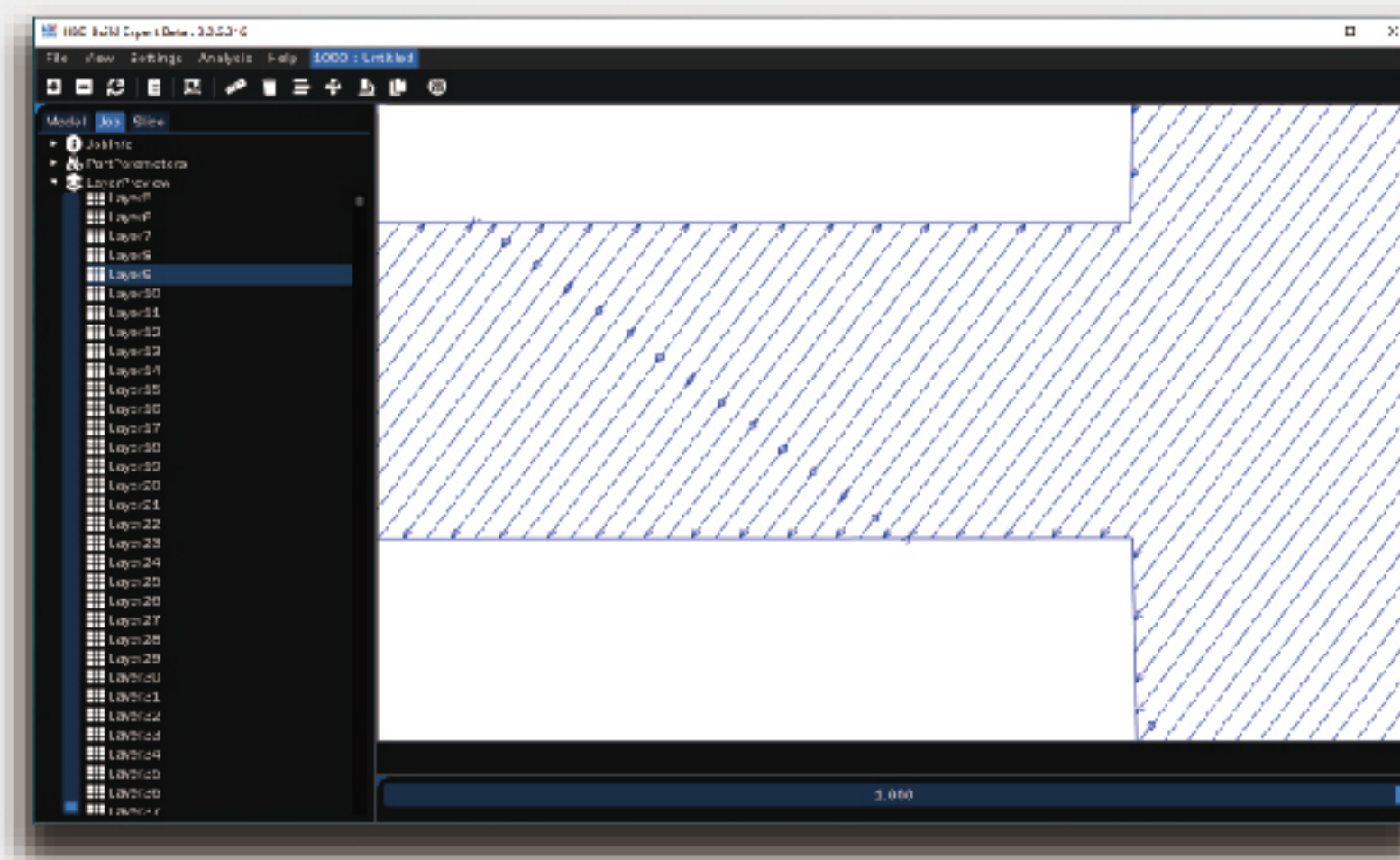
- R&D Data Processing Software: Simple user interface & operation, distributed database and optimization algorithm. Powerful scanning path planning and laser parameter assignment.



- Multi-laser control and stitching system



- Perfect equipment forming process and component performance tests



- Configure parameter packet with multiple materials and big layer thicknesses

An Efficient Smart System



HBD Operation System

- Easy-to-use;
- Automatic grafting;
- Detailed logs.



A one-stop powder processing system

- A one-stop powder processing system with automatic powder feeding, sieving, and suctioning.



An upgraded flexible powder recoating process

- Variable printing speed;
- Automatic powder pre-feeding;
- Multiple scraper types.



Efficient printing process

- Multiple path scanning strategy;
- Large layer thickness;
- Large particle size.



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