Kings
3D Printing

Kings M450E

Kings Industrial SLM 3D Printers

Small-sized Selective Laser Melting Equipment

Advantage

- Large-size multi-laser high-efficiency forming on the same platfor: The multi-laser and multi-galvanometer work together on the same platform synchronously, which can improve the printing efficiency by more than 80% and enables efficient printing of large-sized parts
- Intelligent operation design: Unattended automatic operation printing, automatic/manual control free switching, self-diagnosis function, safety protection and automatic fault alarm
- Double circulation wind site protection system: Dual-circulation wind site protection system to extend the lifespan of the optical components
- All closed looped powder handling system: Closed powder internal processing system, isolates the printing system from the external environment, and reduces the harm of powder to the human body

Ideal Applications

- Widely used in mold, automobile, aerospace, nuclear power military, orthopedic medicine, etc.

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Overview

Kings M450E is a high-efficiency solution launched by KINGS 3D for large-size metal 3D printing applications.Multi-laser and multi-galvanometer are combined on the same platform, which improves the printing efficiency by more than 80%.
For the first time, an all closed looped powder handling system is adopted to reduce the harm of dust to the human body.
It can be used in molds, automobiles, aerospace, nuclear power and military industry, orthopedic medicine, and other fields.

Technical Data

External Dimensions （L×W×H）	2800 x 1100 x 2300mm (110.2X43.3X90.5 in)
Build Cylinder Size（L×W×H）	450×250×300mm (17.7X9.8X11.8 in)
Layer Thickness	0.02mm~0.1mm (0.0008-0.0031 in)
Scanning Speed	15m/s
Laser Type	Dual IPG Lasers, 2×500W
Galvanometer	F theta lenses or dynamic focusing system
Inert Gas Protection	Argon/Nitrogen
Operating System	64 bit Windows 10
Comprehensive Software	Kings 3D Self-developed Control System
Data File Format	STL or Other Convertible Format
Power Supply	220V AC 50/60HZ 45A Single Phase
Operating Ambient Temperature	15-36 ℃
Materials	316L,Ti6Al4V,AlSi10Mg,In 718, CuSn10, CoCr,18Ni300 etc, more materials
Powder Delivery	Double Cylinder One Way Powder Feeding

High Precision
A New Era of Design, and Manufacturing