

M150 SERIES

Kings Industrial SLM 3D Printers

All closed looped powder handling system
high precision & high quality



◆ Overview

After multiple technical advancements, the Kings M150 Series printers exhibit outstanding performance, boasting low operating costs and high precision. Equipped with an ultra-precision filtration system and a fresh air protection system, they provide dual protection, effectively minimizing forming defects and ensuring the quality of the parts produced.

They are used in small-batch moldless production, customization of mold manufacturing, industrial precision components, education, medical and dental applications, scientific research, and more.

◆ Advantage

High precision & high quality:

 Supports 20µm laser spot size. Precisely print out every structural details. Adopting a concentrated laser, the energy greatly enhances the density and strength of the printed part

All closed looped powder handling system:

 The low oxygen content in the manufacturing environment ensures that the metal is not oxidized, and is compatible with powders of different specifications

Dual-circulation wind site protection system:

 Dual-circulation wind site protection system to extend the lifespan of the optical components

Fully pop-up piston system:

 Equipped with a fully pop-up piston system, it is more convenient and quicker to replace metal powder, and 100% eliminates cross powder contamination when replacing powder

◆ Ideal Applications

- R&D and production of small precision parts for dentistry, orthopedics, jewelry, research education, etc.

◆ Technical Data

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|---|---|
| Build Size | 150mm × 150mm × 150mm (M150E); 150mm × 150mm × 120mm (M150T) |
| External Dimensions | 1500mm × 1000mm × 1800mm |
| Forming Materials | Stainless Steel, Cobalt Chromium Alloy, Titanium Alloy, Tool Steel, etc |
| Powder Supply Method | Double Cylinder Two-Way Powder Feeding |
| Printing Accuracy | ±0.1(L≤100 mm); ±0.1%*L(L>100 mm) |
| Layer Thickness | 0.02-0.2 mm |
| Protection System | Efficient Protective Gas Circulation System (Nitrogen, Argon) |
| Supporting Consumables | Stainless Steel Powder, No Less Than 40kg, With Various Material Process Parameter Packages |
| Laser Type | IPG 500W×1/2 (1064nm) |
| Scanning System | SCANLAB (Equipped with F-theta Field Lens) |
| Laser Speed | Scanning:1.0~4.0m/s (Recommended); Jumping: 5~7m/s(Recommended); Up to 11m/s |
| Data Processing Software | Voxeldance Additive / Magics (SLC file) |
| Equipment Control Software | Independently Developed by Kings |
| Operating System | Windows 10 |
| Data Format | STL/SLC/JOB |
| Power Supply | 220V 50 Hz |
| Rated Power Consumption | 9kW, Three-phase Electricity |
| Preheat Temperature | No Substrate Preheating |
| Industrial Control Computer Configuration | 10th Gen i7, 16GB RAM |
| Forming Efficiency | 20~50cm ³ /h |
| Relative Humidity | Below 40%, Frost-free |
| Ambient Temperature | 15-30 °C |
| Equipment Weight | 700kg |



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