

M100 SERIES

Kings Industrial SLM 3D Printers

High power and high efficiency forming
Fully pop-up piston system



M100 SERIES

Kings

◆ Overview

Kings M100 Series are cutting-edge 3D printers tailored for dental labs. 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. With its refined design and upgraded build cylinder, it delivers exceptional precision and efficiency, specializing in processing materials like Titanium (Ti), Cobalt-Chrome (Co-Cr), Stainless Steel (SS), and more. It is 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



Customizable configuration:

The configuration can be customized according to the customers' application requirements, making the use flexible



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, etc.;
- Research education, etc.



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◆ Technical Data

Build Size	Φ120mm × 80mm
External Dimensions	630mm × 700mm × 1000mm
Forming Materials	Stainless steel, mold steel, titanium alloy, etc
Powder Supply Method	Top Powder Supply & One-Way Powder Feeding
Printing Accuracy	±0.1(L≤100 mm); ±0.1%*L(L>100 mm)
Layer Thickness	0.02~0.1 mm
Protection System	Efficient Protective Gas Circulation System (Nitrogen, Argon)
Supporting Consumables	Stainless Steel Powder, No Less Than 20kg, With Various Material Process Parameter Packages
Laser Type	Domestic Laser 300W×1
Scanning System	SUPERSCAN
Laser Speed	Scanning:1.0~4.0m/s (Recommended); Jumping: 5~7m/s(Recommended); Up to 7.8m/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	6kW, Single-phase Electricity
Preheat Temperature	No Substrate Preheating
Industrial Control Computer Configuration	Gen i7, 16GB RAM
Forming Efficiency	5~15cm ³ /h
Relative Humidity	Below 40%, Frost-free
Ambient Temperature	15-30 °C
Equipment Weight	140kg



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