

D100

Kings Industrial SLM 3D Printers

Compact Metal 3D Printing Solution for Dental Labs
and Precision Applications



◆ Overview

The Kings SLM D100 is a desktop metal 3D printer specially designed for dental labs, research institutions, and precision manufacturing applications. Featuring an ultra-precision filtration system and advanced fresh air protection system, it provides dual protection to effectively reduce forming defects and ensure consistent part quality.

With its compact design, upgraded build cylinder, and high-precision printing capability, the D100 enables efficient production of customized metal parts using materials such as Titanium (Ti), Cobalt-Chrome (Co-Cr), Stainless Steel (SS), and more. It is ideal for small-batch mold-free production, customized dental restorations, precision industrial components, education, medical applications, and scientific research.

◆ 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.

◆ Technical Data

Build Size	Φ120mm × 100mm
External Dimensions	690mm × 720mm × 1000mm
Forming Materials	Stainless steel, mold steel, titanium alloy, Cobalt-Chromium 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	300W Infrared Ytterbium-doped Fiber Laser ×1
Scanning System	SUPERSCAN
Laser Speed	Max 7m/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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