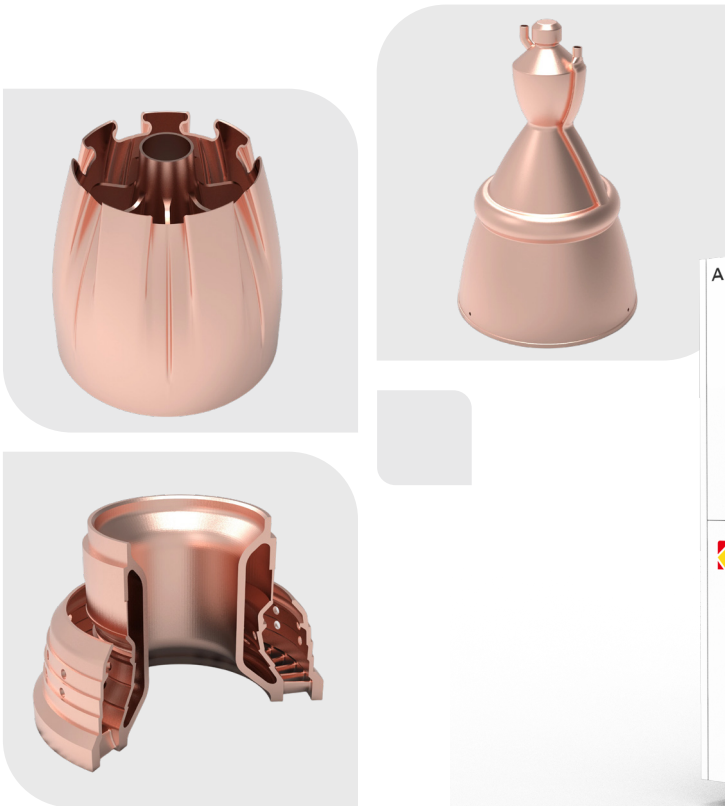


M300G

Kings Industrial SLM 3D Printer

High-Precision Scanning System
Industrial-Grade Structure



◆ Overview

Kings SLM M300G 3D Printer is an advanced industrial 3D printing system engineered for high-reflectivity and difficult-to-process materials. Designed to overcome key limitations in large-format and high-performance part manufacturing, it delivers superior precision, material compatibility, and surface quality. With its optimized optical system and integrated protection design, the M300G ensures stable, efficient, and high-quality production for demanding applications.

◆ Features

-  **Large-Area Forming Capability**
Enables the production of large-format parts using high-reflectivity materials, addressing challenges in manufacturing medium-to-large complex components
-  **Optimized for High-Reflectivity Materials**
Effectively solves the issue of low infrared absorption in reflective materials, improving printability and consistency
-  **Integrated Ultra-Precision Filtration System**
Combined with a new airflow protection design, it reduces footprint requirements while minimizing defects and ensuring consistent part quality
-  **Smaller Laser Spot with Higher Energy Density**
Enhances material melting efficiency, especially for metals and difficult materials, delivering finer details and superior surface finish
-  **High Laser Absorption Efficiency**
Supports a wide range of materials including copper, gold, aluminum, and other high-reflectivity or difficult-to-process metals, significantly improving forming efficiency while protecting optical components

◆ Advantages

- Expanded Material Compatibility
- Superior Print Quality
- Improved Production Efficiency
- Enhanced System Stability
- Space-Efficient Design

◆ Applications

- Suitable for the manufacturing of large-scale, high-precision components made from pure copper and various high-reflectivity materials.

◆ Technical Data

Build Size	300 × 300 × 400mm
External Dimensions	2460 × 1300 × 2400mm
Layer Thickness	0.02mm~0.1mm
Laser Power	500W IPG Green Single-Mode Fiber Laser (500W)
Scanning System	High-Precision Galvanometer Scanner
Scanning Speed	Max 7m/s
Feeding Method	Dual-cylinder, Single-feeding Powder System
Control Software	Self-developed Control and Toolpath Planning Software System
Data Format	STL Files or Other Convertible Formats
Display	17.3-inch Monitor
Filtration system	Standard Filtration Unit
Build Plate Heating	Up to 200°C (with integrated piston water cooling)
Power Supply & Consumption	380V 50Hz 14kW
Ambient Temperature	Operating Temperature 15~30°C
Equipment Weight	1300kg
Printing Materials	Pure copper, Copper Alloys, Refractory Metals, Gold, Aluminum Alloys, High-temperature Alloys, Stainless Steel, Mold Steel, etc.

