

M280(S) SERIES

Kings Industrial SLM 3D Printers

High-Precision Scanning System
Industrial-Grade Structure



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◆ Overview

The Kings M280(S) Series SLM 3D Printer integrates the core printing system, filtration unit, and cooling module into a single, efficient machine. Designed for precision, stability, and industrial-grade metal additive manufacturing, it features a balanced build volume and advanced process control to deliver high-quality parts for aerospace, energy, research, and education applications.

◆ Features

-  **Integrated Design**
Combines 3D printer, filtration, and cooling modules for a compact and efficient setup
-  **High-Precision Scanning System**
Ensures stable, repeatable performance for intricate geometries
-  **Industrial-Grade Structure**
Rigid frame and optimized design guarantee long-term reliability and accuracy
-  **Advanced Atmosphere Control**
Maintains ultra-low oxygen levels to prevent material oxidation

◆ Advantages

- **Consistent Precision & Stability** - Achieves high-quality metal parts through robust scanning and machine design
- **Compact, Integrated Layout** - Reduces installation space and simplifies operation
- **Optimized Printing Environment** - Low oxygen levels enhance material properties and part quality
- **Reliable Air Protection System** - Multi-stage filtration improves surface finish and extends machine lifespan

◆ Applications

- Power Generation, Industrial Tooling, Fundamental Research, Aerospace, Education, and Multi-material Testing.

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◆ Technical Data

Build Size	260 × 260 × 350mm
External Dimensions	2460 × 1300 × 2200mm
Layer Thickness	0.02mm-0.1mm
Laser Type	laser 500W×1, 500W×2
Scanning System	High Precision Scanning Galvanometer
Scanning Speed	Max 7m/s
Software	Independently Developed Control and Path Planning Software System
Data Format	STL Files or Other Convertible Formats
Feeding Method	Double-cylinder, One-way Powder Supply
Power Consumption	14kW / 16kW
Supply Voltage	380V / 50Hz
Ambient Temperature	Operating Temperature 15°C-30°C
Equipment Weight	1200kg
Printing Materials	Stainless Steel, Cobalt Chromium Alloy, Titanium Alloy, Mold Steel, Aluminum Alloy, etc



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