

M480 SERIES

Kings Industrial SLM 3D Printers

2-Laser 2-galvanometer Large Size Metal 3D Printing
Equipment on the Same Radial Surface



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◆ Overview

Dual-laser technology revolutionizes the landscape of large-scale metal 3D printing, presenting a groundbreaking approach to applications. Incorporating a quad-laser and quad-galvanometer uniform-forming solution elevates forming efficiency by more than 200%.

This cutting-edge technology caters to diverse sectors such as moulds, automotive, aerospace, nuclear power, military, orthopedic medicine, and beyond.

◆ Advantage

-  Core components use international brands, providing ultra-fine laser spots, high stability, reliability, and superior forming accuracy.
-  Efficient back-blow filtration system with an extended lifespan, reducing operating costs.
-  Unique substrate module for quick assembly and disassembly, offering higher precision and more accurate mold alignment.
-  Efficient intelligent layering: variable layer thickness, mixed layer thickness, and customized layer thickness.
-  Equipped with a pop-up piston platform, ensuring 100% contamination-free powder changing.

◆ Ideal Applications

- Industrial Molds, Automotive Parts, Aerospace, Nuclear Power and Military Industry

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◆ Technical Data

Build Size	480mm × 320mm × 300mm
External Dimensions	1960mm × 1150mm × 2850mm
Forming Materials	Stainless Steel, Titanium Alloy, Mold Steel, Aluminum Alloy, High-temperature Alloy, High-strength steel, etc
Powder Supply Method	Top Powder Supply & Two-Way Powder Feeding
Printing Accuracy	±0.1(L≤100 mm); ±0.1%*L(L>100 mm)
Layer Thickness	0.02~0.1mm
Protection System	Efficient Protective Gas Circulation System (Nitrogen, Argon)
Supporting Consumables	316L Stainless Steel Powder, No Less Than 100kg With (Process Parameter Packages For 4 Materials)
Laser Type	IPG 500W×2 (1064nm)
Scanning System	SCANLAB*2 (Equipped with F-theta Field Lens)
Laser Speed	Scanning:1.0~4.0m/s (Recommended); Jumping: 6~7m/s(Recommended); Up to 11m/s
Data Processing Software	Voxeldance Additive (STL file)
Equipment Control Software	Independently Developed by Kings
Operating System	Windows 7 and Above
Data Format	STL/SLC/JOB
Power Supply	380V 50Hz 16kW/19kW (Equipped With a Permanent Filtration Cabinet)
Rated Power Consumption	13kW, Three-phase Electricity
Heating Method	Precision Resistive Heating (Up to 200°C)
Industrial Control Computer Configuration	10th Gen i7, 16GB RAM
Forming Efficiency	20-50 cm ³ /h
Relative Humidity	Below 40%, Frost-free
Ambient Temperature	15-30 °C
Equipment Weight	1500kg



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