Kings 3D Printing

M280 SERIES

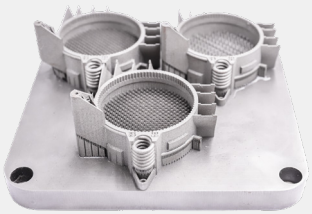
Kings Industrial SLM 3D Printers

Medium-sized laser selective melting metal 3D printer











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◆ Overview

Kings M280 series 3D metal printers ensure superior part quality with ultra-precision filtration system and fresh air protection system, offering dual protection to minimize defects and featuring moderate build size and high precision.

Ideal for small-batch, moldless production or customization, M280 series printers excel in mold manufacturing, industrial precision components, aerospace, automotive, medical applications, and scientific research.

◆ Advantage

High precision & high quality:
High-precision scanning galvanometer ensures high precision and strong stability.

Dual circulation wind site protection system:
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 powders, and 100% eliminates cross powder contamination when replacing powders.

All closed looped powder handling system:
The low oxygen content in the manufacturing environment ensures that the metal is not oxidized , and is compatible with powders of different specifications.

◆ Ideal Applications

- Mold making,industrial precision components, aerospace,automotive, medical applications,scientific research, etc.

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◆ Technical Data

Build Size	250mm × 250mm × 300mm
External Dimensions	1650mm × 1100mm × 2150mm
Forming Materials	Stainless Steel, Titanium Alloy, Mold Steel, Aluminum Alloy, High-temperature Alloy, Tungsten, Tantalum, etc
Powder Supply Method	Double Cylinder 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 316L, No Less Than 50kg, With Various Material Process Parameter Packages
Laser Type	Optional: Domestic Laser 500W×1; Domestic Laser 500W×2; IPG Laser 500W×1; IPG Laser 500W×2
Scanning System	Optional: Domestic high speed scanner; SCANLAB (Equipped with F-theta Field Lens)
Laser Speed	Scanning:1.0~4.0m/s (Recommended); Jumping: 5~7m/s(Recommended); Up to 11m/s
Data Processing Software	Voxeldance Additive (STL file)
Equipment Control Software	Independently Developed by Kings
Operating System	Windows 10
Data Format	STL/SLC/JOB
Power Supply	380V 50 Hz
Rated Power Consumption	12kW/14kW, Three-phase Electricity
Preheat Temperature	RT+20℃~80℃
Industrial Control Computer Configuration	Gen i7, 16GB RAM
Forming Efficiency	20~50cm^3/h
Relative Humidity	Below 40%, Frost-free
Ambient Temperature	15-30 ℃
Equipment Weight	1200kg

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