

Kings M450 SLM

Kings Industrial FDM 3D Printers

23 Innovative Technologies, High Speed FDM 3D Printing

Efficient and Cost-Effective Prototyping

Bring Your Idea into Reality

Overview

Kings M450 is a high-efficiency solution launched by KINGS 3D Printing for large-size metal 3D printing applications.

Multi-laser and multi-galvanometer are combined on the same platform, which improves the printing efficiency by more than 80%. For the first time, an all-closed looped powder handling system is adopted to reduce the harm of dust to the human body. It can be used in molds, automobiles, aerospace, nuclear power and military industry, orthopedic medicine, and other fields.

Ideal Applications

Widely used in Mold, Automobile, Aerospace,
Nuclear Power Military, Orthopedic, etc..



Features

- (1) Large-size Multi-laser High-efficiency Forming on the Same Platform

The multi-laser and multi-galvanometer work together on the same platform synchronously, which can improve the printing efficiency by more than 80% and enables efficient printing of large-sized parts
- (2) Intelligent Operation Design

Unattended automatic operation printing, automatic/manual control free switching, self-diagnosis function, safety protection, and automatic fault alarm.
- (3) Double Circulation Wind Site Protection System

Dual-circulation wind site protection system to extend the lifespan of the optical components.
- (4) All Closed Looped Powder Handling System

A closed powder internal processing system, isolates the printing system from the external environment and reduces the harm of powder to the human body.

Product Details

The Type of 3D Printer:	Kings M450 SLM 3D Printer	Inert Gas Protection:	Argon/Nitrogen
External Dimensions(L*W*H):	2540mm*1500mm*2454mm(100*59*96.6 in)	Operating System:	64-bit Windows 10
Build Cylinder Size(L*W*H):	425*425*450mm(16.7*16.7*17.7 in)	Comprehensive Software:	Kings 3D Self-developed Control System
Layer Thickness:	0.02mm~0.1mm (0.0008-0.0039 in)	Data File Format:	STL or Other Convertible Format
Scanning Speed:	15m/s	Power Supply:	220V AC 50/60HZ 45A Single Phase
Laser Type:	Dual IPG Lasers, 2*500W	Operating Ambient Temperature:	15-36 °C
Galvanometer:	F theta lenses or dynamic focusing system	Materials:	316L,Ti6Al4V,AlSi10Mg,In 718,CuSn10,CoCr,18Ni300 etc, more materials
		Powder Delivery:	Double Cylinder One Way Powder Feeding

Printings

