Kings®
3D Printing

450PRO

Kings Industrial SLA 3D Printers

23 Innovative Technologies, High Speed SLA 3D Printing
Efficient and Cost-Effective Prototyping
Bring Your Idea into Reality











450PRO

Kings

◆ Overview

The Kings SLA 450Pro 3D Printer delivers high-precision SLA technology for professional applications. It produces detailed 3D printing models, including dental models, prototypes, and intricate designs for dentistry, jewelry, and engineering, ensuring precise data collection and seamless design with enhanced scanning and CAD software integration.

◆ Advantage

- **Enhanced Printing Efficiency**
  - → Intelligent high speed scanning system, 15m/s
  - → Variable laser spot and variable power
  - → Automatic identifying upskin and downskin with differentiated parameters
  - → Different Parameter databases with different layer thickness
- **Long-term Printing Stability**
  - → Key components from international top brands
  - → Full marble structure for enhanced recoating and scanning stability
  - → High stiffness light recoater to ensure recoating accuracy and efficiency
  - → Compensation algorithm for multi-head system, ensuring uniform curing in the printing range

◆ Ideal Applications

Dental Models | Shoe Mold Manufacturing | Jewelry and Accessories

Automotive Parts | Medical Models and Instruments | Scientific Research and Education

450PRO

Kings

◆ Technical Data

Max Printing Size	450*450*350mm
Machine Size	104cm(W)*117cm(D)*216cm(H)
Rated Power Consumption	1.2KVA
Machine Weight	720kg
First Tank Resin	130kg
Beam Size (diameter @1/e²)	0.08-0.8mm(Variable beam sizes)
Max Scanning Speed	15.0m/s
Layer Thickness	0.05mm~0.2mm
Accuracy	±0.1(L≦100mm)； ±0.1%*L(L>100mm)
Laser Type	Solid-state frequency tripled Nd: YV04
Wavelength	355nm
Power	Resin surface power≥300 mw
Variable Beam System	Galvo/Closed-loop
Main Structure	Marble recoater frame, marble elevator holder and marble scanning system base
Coating Mode	lntelligent position vacuum recoating
Vertical Resolution Ratio	0.0005mm
Repeat Positioning Accuracy	±0.01mm
Motion Control System	Closed-loop
Machine Control Software	KINGS 3D control software
lnput Data File Format	STL/SLC
Operating System	Windows 10
Network Type and Protocol	Ethernet，TCP/IP
Electrical Requirement	200-240VAC 50/60Hz,single-phase,10A
Ambient Temperature	20-26°C(72-79F)
Relative Humidity	<40%，non-condensing

Shenzhen Kings 3D Co., Ltd
Building B, No. 148 Huanli Road, Yungu Community, Xinhu Street, Guangming District, Shenzhen, China.
No.178, Dingxing Road, High-tech Zone, Zhuhai City, Guangdong Province
Web: www.kings3dprinter.com
Mob/Whatsapp: +86 17727416895
Email: market@kings3dprinter.com