KINGS 600/650PRO

Kings Industrial SLA 3D Printers

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

KINGS 600/650PRO

Kings

◆ Overview

The Kings SLA 600/650Pro 3D Printer offers high-precision SLA technology for professional applications. It excels in producing small and medium-sized detailed models, prototypes, and functional parts for industries like automotive, aerospace, and engineering. With enhanced scanning and CAD software integration, it ensures precise data collection and seamless design.

◆ 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 database 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

- Shoe Mold Manufacturing
- Prototyping
- Architecture
- Sculpture
- Medical
- Dental
- Military
- Automotive
- Animation
- Electronics

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◆ Technical Data

	Kings 600Pro	Kings 650Pro
Max Printing Size	600*600*400mm	650*650*400mm
Machine Size	118cm(W)*129cm(D)*217cm(H)	118cm(W)*129cm(D)*217cm(H)
Rated Power Consumption	1.5KVA	1.5KVA
Machine Weight	990kg	1000kg
First Tank Resin	225kg	255kg
Beam Size (diameter @1/e^2)	0.08-0.8mm (Variable Beam)	0.08-0.8mm (Variable Beam)
Max Scanning Speed	15.0 m/s	15.0 m/s
Layer Thickness	0.05mm~0.2mm	0.05mm~0.2mm
Accuracy	±0.1(L≦100mm)；±0.1%*L(L>100mm)	±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	Intelligent 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
Input 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	20-26ºC (72-79°F)
Relative Humidity	≤40%，non-condensing
Machine Warranty	2 years (including laser)