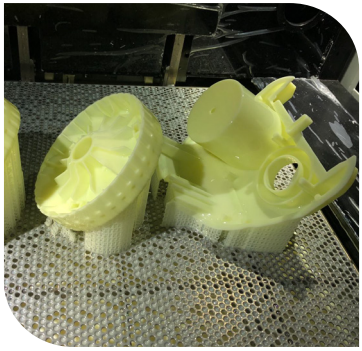
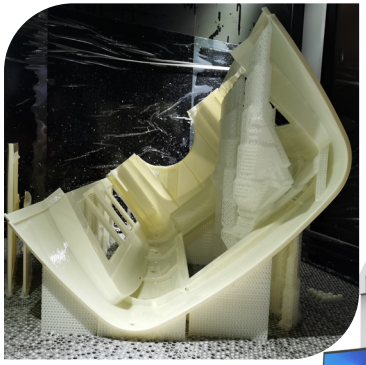
Kings®
3D Printing

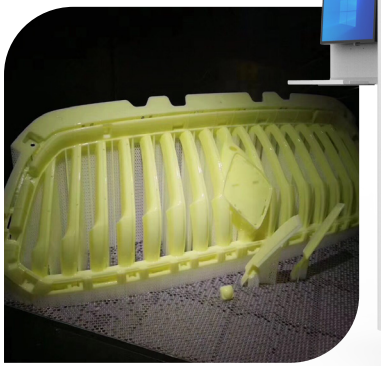
KINGS 1200/1450PRO

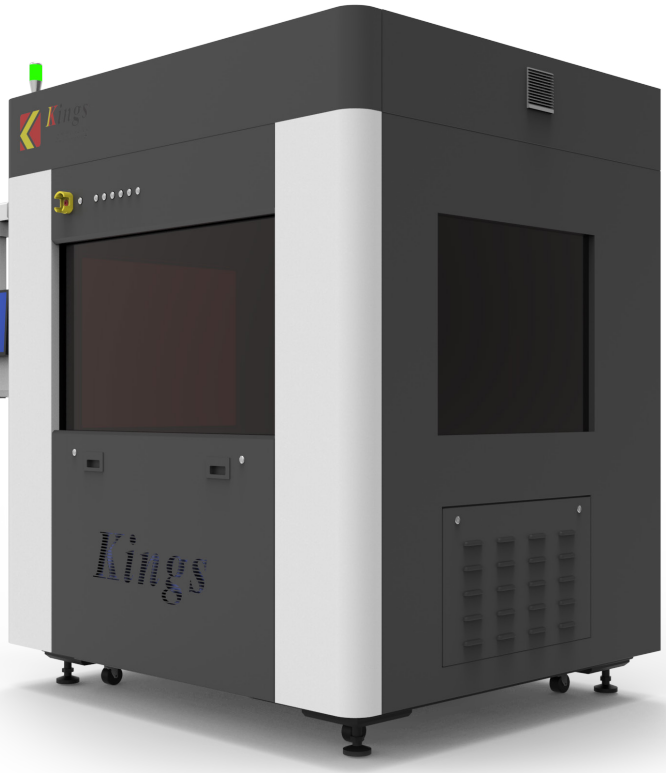
Kings Industrial SLA 3D Printers

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









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◆ Overview

The Kings SLA 1200/1450Pro delivers exceptional precision and performance in professional 3D printing. With a robust marble frame, high-grade ball screw rails, and advanced laser technology, it ensures precise, reliable results. Ideal for diverse industrial applications with optimized materials and efficient production capabilities, it meets large size 3D printing needs.

◆ 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 brand: Optowave laser from the US, Scanlab galvanometer from Germany
  - → 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 1200Pro	Kings 1450Pro
Max Printing Size	1200*1200*650mm	1450*800*650mm
Machine Size	198cm(W)*177cm(D)*230cm(H)	222cm(W)*177cm(D)*230cm(H)
Rated Power Consumption	2.2KVA	2.2KVA
Machine Weight	2350kg	2550kg
First Tank Resin	940kg	1090kg
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	±0.15(L≦100mm)； ±0.15%*L(L>100mm)	±0.15(L≦100mm)； ±0.15%*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	20-26°C (72-79°F)
Relative Humidity	≤40%，non-condensing
Machine Warranty	2 years (including laser)

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