

## New Era of Design and Manufacturing

23 Innovative Technologies, High Speed SLA 3D Printing

Efficient and Cost-Effective Prototyping

Bring Your Idea into Reality



### 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 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

	<b>Kings 3050Pro</b>	<b>Kings 450Pro</b>	<b>Kings 6035ro</b>
Max Printing Size	300*350*350mm	450*450*350mm	350*600*350mm
Machine Size	94cm(W)*102cm(D)*192cm(H)	104cm(W)*117cm(D)*192cm(H)	108cm(W)*95cm(D)*198cm(H)
Rated Power Consumption	1.2KVA	1.2KVA	1.5KVA
Machine Weight	About 780kg	About 800kg	About 880kg
First Tank Resin	About 80kg	About 140kg	About 140kg
Beam Size (diameter @1/e2)	0.065-0.8mm (Variable Beam)	0.065-0.8mm(Variable Beam)	0.075-0.8mm(Variable Beam)
Max Scanning Speed	12.0m/s	12.0m/s	15.0m/s
Layer Thickness	0.05mm~0.25mm	0.05mm~0.25mm	0.05mm~0.25mm
Accuracy	L ≤ 150mm, ± 0.1mm; L > 150mm, ± 0.1%*L	L ≤ 150mm, ± 0.1mm; L > 150mm, ± 0.1%*L	L ≤ 150mm, ± 0.1mm; L > 150mm, ± 0.1%*L

Laser Type	Solid-state frequency tripled Nd: YV04
Wavelength	355nm
PowerResin	Surface Power ≥ 300 mW
Variable Beam System	Galvo/Closed-loop
Main Sturcture	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 7/10
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)



High Precision  
Excellent Smoothness and Details  
Versatile Industrial Application