

650PRO

Kings Industrial SLA 3D Printers

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











Overview

The Kings SLA 650Pro offers unparalleled precision and performance for professional applications, crafting detailed prototypes, dental models, and engineering designs with unmatched accuracy. Integrated with advanced scanning and CAD software, it sets a new standard in additive manufacturing for quality and reliability.

Advantage

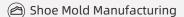
Enhanced Printing Efficiency

- → 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



Prototyping





Military

Automotive

(%) Animation

(Electronics

650PR0



♦ Technical Data

Machine Size 118cm(W)*129cm(D)*217cm(H) Rated Power Consumption 1.5KVA Machine Weight 1000kg First Tank Resin 255kg 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 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(72-79F) </th <th>Max Printing Size</th> <th>650*650*400mm</th>	Max Printing Size	650*650*400mm
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Main Structure Coating Mode Intelligent position vacuum recoating Vertical Resolution Ratio Repeat Positioning Accuracy Motion Control System Machine Control Software Input Data File Format Operating System Network Type and Protocol Electrical Requirement Ambient Temperature Rarble recoater frame, marble elevator holder and marble scanning system base Intelligent position vacuum recoating 0.0005mm ±0.01mm Closed-loop KINGS 3D control software STL/SLC Windows 10 Ethernet, TCP/IP Electrical Requirement 200-240VAC 50/60Hz,single-phase,10A Ambient Temperature 40%, non-condensing	Power	Resin surface power≥300 mw
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(72-79F) Relative Humidity <40%, non-condensing	Variable Beam System	Galvo/Closed-loop
Vertical Resolution Ratio Repeat Positioning Accuracy Motion Control System Closed-loop Machine Control Software Input Data File Format Operating System Windows 10 Network Type and Protocol Electrical Requirement Ambient Temperature Relative Humidity O.0005mm 0.0005mm Aunumatical Structure (Closed-loop) KINGS 3D control software Windows 10 Ethernet, TCP/IP Ethernet, TCP/IP 200-240VAC 50/60Hz,single-phase,10A	Main Structure	Marble recoater frame, marble elevator holder and marble scanning system base
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Motion Control System Machine Control Software KINGS 3D control software Input Data File Format Operating System Windows 10 Network Type and Protocol Electrical Requirement Ambient Temperature Relative Humidity Closed-loop KINGS 3D control software STL/SLC Operating System Windows 10 Ethernet, TCP/IP 200-240VAC 50/60Hz,single-phase,10A And System Closed-loop KINGS 3D control software STL/SLC Operating System Windows 10 Ethernet, TCP/IP 200-240VAC 50/60Hz,single-phase,10A Ambient Temperature 20-26°C(72-79F) controlsoftware STL/SLC Operating System Windows 10 Ethernet, TCP/IP 200-240VAC 50/60Hz,single-phase,10A Ambient Temperature 20-26°C(72-79F) Relative Humidity	Vertical Resolution Ratio	0.0005mm
Machine Control Software Input Data File Format Operating System Windows 10 Network Type and Protocol Electrical Requirement Ambient Temperature Relative Humidity KINGS 3D control software Windows 10 Ethernet, TCP/IP 200-240VAC 50/60Hz,single-phase,10A 40%, non-condensing	Repeat Positioning Accuracy	±0.01mm
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Operating System Network Type and Protocol Ethernet, TCP/IP Electrical Requirement 200-240VAC 50/60Hz,single-phase,10A Ambient Temperature Relative Humidity Windows 10 Ethernet, TCP/IP 200-240VAC 50/60Hz,single-phase,10A 20-26°C(72-79F) <40%, non-condensing	Machine Control Software	KINGS 3D control software
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Ambient Temperature 20-26°C(72-79F) Relative Humidity <40%, non-condensing	Network Type and Protocol	Ethernet, TCP/IP
Relative Humidity <40%, non-condensing	Electrical Requirement	200-240VAC 50/60Hz,single-phase,10A
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Machine Warranty 2 years (including laser)	Relative Humidity	<40%, non-condensing
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