

KINGS 1200/1450PR0 Kings Industrial SLA 3D Printers

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



KINGS 1200/1450PR0

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

- ightarrow lntelligent high speed scanning system, 15m/s
- ightarrow Variable laser spot and variable power
- \rightarrow Automatic identifying upskin and downskin with differentiated parameters
- \rightarrow 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
- ightarrow Full marble structure for enhanced recoating and scanning stability
- ightarrow 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	Directory Prototyping	Architecture	Sculpture	🛞 Medical	Le Iseanie
💮 Dental	🛞 Military	Automotive	() Animation	Electronics	



Kings

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Technical Data

Max Printing Size1200*1200*650mm1450*800*650mmMachine Size19⊌rm(W)*177cm(D)*230cm(H)222cm(W)*177cm(D)*230cm(H)Rated Power Consumption2.XVA2.XVAMachine Weight2350g2550kgFirst Tank Resin940y1090kgBeam Size (diameter @1/e*)0.08-0.8mm (Variable Beam)0.08-0.8mm (Variable Beam)Max Scanning Speed1.5 m/s1.5 0 m/sLayer Thickness0.5 mm-0.2mm0.05 mm-0.2mmAccuracytti_Lst00mm); ±0.15%±(Ls100mm); ±0.15%±(Ls100m		Kings 1200Pro	Kings 1450Pro		
Rated Power Consumption2.2KVAMachine Weight2350kg2550kgFirst Tank Resin940kg1090kgBeam Size (diameter @1/e ²)0.08-0.8mm (Variable Beam)0.08-0.8mm (Variable Beam)Max Scanning Speed15.0 m/s15.0 m/sLayer Thickness0.05mm-0.2mm0.05mm-0.2mmAccuracy±0.15(L≤100mm); ±0.15%±L(L>100mm)±0.15(L≤100mm); ±0.15%±L(L>100mm)Haver SpeedSolid-state frequency tripled Nd: YUV4Wavelength355nmPowerResin Surface Power≥ 300 mWVariable Beam SystemGalvo/Closed-loopMain structureMarble recoater frame, marble elevator holder and marble scanning system baseCoating ModeIntelligent position vacuum recoatingVertical Resolution Ratio0.0005mmRepeat Positioning Accuracy±0.01mmMachine Control SoftwareKINGS 3D control softwareInput Data File FormatSTL/SLCOperating SystemWindows 10Network Type and ProtocolEthernet, TCP/IPElectrical Requirement200-240VAC 50/60Hz, single-phase, 10AAmbient Temperature20-26°C (72-79°F)Relative Humiditys40%, non-condensing	Max Printing Size	1200*1200*650mm	1450*800*650mm		
Machine Weight2350kg2550kgFirst Tank Resin940kg1090kgBeam Size (diameter @1/e ²)0.08-0.8mm (Variable Beam)0.08-0.8mm (Variable Beam)Max Scanning Speed15.0 m/s15.0 m/sLayer Thickness0.05mm-0.2mm0.05mm-0.2mmAccuracy±0.15(L≤100mm); ±0.15%*L(L>100mm)±0.15(L≤100mm); ±0.15%*L(L>100mm)KCuracy±0.15(L≤100mm); ±0.15%*L(L>100mm)±0.15(L≤100mm); ±0.15%*L(L>100mm)Varelength355nmVoriable Beam SystemPowerResin Surface Power≥ 300 mWVariable Beam SystemVariable Beam SystemGalvo/Closed-loopMarble recoater frame, marble el=vator holder and marble scanning system baseCoating ModeIntelligent position vacuum recoatingVertical Resolution Ratio0.0005mmRepeat Positioning Accuracy±0.01mmMachine Control SystemClosed-loopMachine Control SystemClosed-loopMachine Control SystemSTL/SLCOperating SystemWindows 10Network Type and ProtocolEthernet, TCP/IPElectrical Requirement200-240VAC 50/60Hz, single-phase,10AAmbient Temperature20-26°C (72-79°F)Relative Humiditys40%, non-condensing	Machine Size	198cm(W)*177cm(D)*230cm(H)	222cm(W)*177cm(D)*230cm(H)		
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); ±0.15%*L(L>10mm); ±0.15%*L(L>10mm	Rated Power Consumption	2.2KVA	2.2KVA		
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); ±0.15%*L(L>100mm) Accuracy ±0.15(L≤100mm); ±0.15%*L(L>100mm) ±0.15(L≤100mm); ±0.15%*L(L>100mm) Variable Type Solid-state frequency tripled Nd: >VV4 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 recoatirg 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 Weight	2350kg	2550kg		
Max Scanning Speed15.0 m/s15.0 m/sLayer Thickness0.05mm~0.2mm0.05mm~0.2mmAccuracy±0.15(L≤100mm); ±0.15%±L(L>100mm)±0.15(L≤100mm); ±0.15%*L(L>100mm)Accuracy±0.15(L≤100mm); ±0.15%*L(L>100mm)Laser TypeSolid-state frequency tripled Nd: YVUWavelength355nmPowerResin Surface Power≥ 300 mWVariable Beam SystemGalvo/Closed-loopMain structureMarble recoater frame, marble elevator holder and marble scanning system baseCoating ModeIntelligent position vacuum recoatingVertical Resolution Ratio0.0005mmRepeat Positioning Accuracy±0.01mmMotion Control SystemClosed-loopMachine Control SoftwareKINGS 3D control softwareInput Data File FormatSTL/SLCOperating SystemWindows 10Network Type and ProtocolEthernet, TCP/IPElectrical Requirement200-240VAC 50/60Hz, single-phase,10AAmbient Temperature20-26°C (72-79°F)Relative Humidity≤40%, non-condensing	First Tank Resin	940kg	1090kg		
Layer Thickness0.05mm-0.2mm0.05mm-0.2mmAccuracy±0.15(L≤100mm); ±0.15%*L(L>100mm); ±0.15%*L(L>10mm); ±0.15%*L(L>10mm; ±0.15%*L(L>10mm); ±0.15%*L(L>10mm; ±0.15%*L(L>10mm; ±0.15%*L(L>10mm; ±0.15%*L(L>10mm; ±0.15%*L(L>10mm; ±0.15	Beam Size (diameter @1/e²)	0.08-0.8mm (Variable Beam)	0.08-0.8mm (Variable Beam)		
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 s40%, non-condensing	Max Scanning Speed	15.0 m/s	15.0 m/s		
Laser TypeSolid-state frequency tripled Nd: YV04Wavelength355nmPowerResin Surface Power≥ 300 mWVariable Beam SystemGalvo/Closed-loopMain structureMarble recoater frame, marble elevator holder and marble scanning system baseCoating ModeIntelligent position vacuum recoatingVertical Resolution Ratio0.0005mmRepeat Positioning Accuracy±0.01mmMotion Control SystemClosed-loopMachine Control SoftwareKINGS 3D control softwareInput Data File FormatSTL/SLCOperating SystemWindows 10Network Type and ProtocolEthernet, TCP/IPElectrical Requirement200-240VAC 50/60Hz, single-phase, 10AAmbient Temperature20-26°C (72-79°F)Relative Humidity≤40%, non-condensing	Layer Thickness	0.05mm~0.2mm	0.05mm~0.2mm		
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Wavelength355nmPowerResin Surface Power> 300 mWVariable Beam SystemGalvo/Closed-loopMain structureMarble recoater frame, marble elevator holder and marble scanning system baseCoating ModeIntelligent position vacuum recoatingVertical Resolution Ratio0.0005mmRepeat Positioning Accuracy±0.01mmMotion Control SystemClosed-loopMachine Control SoftwareKINGS 3D control softwareInput Data File FormatSTL/SLCOperating SystemWindows 10Network Type and ProtocolEthernet, TCP/IPElectrical Requirement200-240VAC 50/60Hz, single-phase, 10AAmbient Temperature20-26°C (72-79°F)Relative Humiditys40%, non-condensing					
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Variable Beam SystemGalvo/Closed-loopMain structureMarble recoater frame, marble elevator holder and marble scanning system baseCoating ModeIntelligent position vacuum recoatingVertical Resolution Ratio0.0005mmRepeat Positioning Accuracy±0.01mmMotion Control SystemClosed-loopMachine Control SoftwareKINGS 3D control softwareInput Data File FormatSTL/SLCOperating SystemWindows 10Network Type and ProtocolEthernet, TCP/IPElectrical Requirement200-240VAC 50/60Hz, single-phase,10AAmbient Temperature20-26°C (72-79°F)Relative Humidity≤40%, non-condensing	Wavelength	355nm			
Main structureMarble recoater frame, marble elevator holder and marble scanning system baseCoating ModeIntelligent position vacuum recoatingVertical Resolution Ratio0.0005mmRepeat Positioning Accuracy±0.01mmMotion Control SystemClosed-loopMachine Control SoftwareKINGS 3D control softwareInput Data File FormatSTL/SLCOperating SystemWindows 10Network Type and ProtocolEthernet, TCP/IPElectrical Requirement200-240VAC 50/60Hz, single-phase,10AAmbient Temperature20-26°C (72-79°F)Relative Humidity≤40%, non-condensing	Power	Resin Surface Power≥ 300 mW			
Coating ModeIntelligent position vacuum recoatingVertical Resolution Ratio0.0005mmRepeat Positioning Accuracy±0.01mmMotion Control SystemClosed-loopMachine Control SoftwareKINGS 3D control softwareInput Data File FormatSTL/SLCOperating SystemWindows 10Network Type and ProtocolEthernet, TCP/IPElectrical Requirement200-240VAC 50/60Hz, single-phase,10AAmbient Temperature20-26°C (72-79°F)Relative Humidity≤40%, non-condensing	Variable Beam System	Galvo/Closed-loop			
Vertical Resolution Ratio0.0005mmRepeat Positioning Accuracy±0.01mmMotion Control SystemClosed-loopMachine Control SoftwareKINGS 3D control softwareInput Data File FormatSTL/SLCOperating SystemWindows 10Network Type and ProtocolEthernet, TCP/IPElectrical Requirement200-240VAC 50/60Hz, single-phase, 10AAmbient Temperature20-26°C (72-79°F)Relative Humidity≤40%, non-condensing	Main structure	Marble recoater frame, marble el	evator holder and marble scanning system base		
Repeat Positioning Accuracy±0.01mmMotion Control SystemClosed-loopMachine Control SoftwareKINGS 3D control softwareInput Data File FormatSTL/SLCOperating SystemWindows 10Network Type and ProtocolEthernet, TCP/IPElectrical Requirement200-240VAC 50/60Hz, single-phase,10AAmbient Temperature20-26°C (72-79°F)Relative Humidity≤40%, non-condensing	Coating Mode	Intelligent position vacuum recoating			
Motion Control SystemClosed-loopMachine Control SoftwareKINGS 3D control softwareInput Data File FormatSTL/SLCOperating SystemWindows 10Network Type and ProtocolEthernet, TCP/IPElectrical Requirement200-240VAC 50/60Hz, single-phase,10AAmbient Temperature20-26°C (72-79°F)Relative Humidity≤40%, non-condensing	Vertical Resolution Ratio	0.0005mm			
Machine Control SoftwareKINGS 3D control softwareInput Data File FormatSTL/SLCOperating SystemWindows 10Network Type and ProtocolEthernet, TCP/IPElectrical Requirement200-240VAC 50/60Hz, single-phase,10AAmbient Temperature20-26°C (72-79°F)Relative Humidity≤40%, non-condensing	Repeat Positioning Accuracy	±0.01mm			
Input Data File FormatSTL/SLCOperating SystemWindows 10Network Type and ProtocolEthernet, TCP/IPElectrical Requirement200-240VAC 50/60Hz, single-phase,10AAmbient Temperature20-26°C (72-79°F)Relative Humidity≤40%, non-condensing	Motion Control System	Closed-loop	Closed-loop		
Operating SystemWindows 10Network Type and ProtocolEthernet, TCP/IPElectrical Requirement200-240VAC 50/60Hz, single-phase,10AAmbient Temperature20-26°C (72-79°F)Relative Humidity≤40%, non-condensing	Machine Control Software	KINGS 3D control software	KINGS 3D control software		
Network Type and ProtocolEthernet, TCP/IPElectrical Requirement200-240VAC 50/60Hz, single-phase,10AAmbient Temperature20-26°C (72-79°F)Relative Humidity<40%, non-condensing	Input Data File Format	STL/SLC	STL/SLC		
Electrical Requirement200-240VAC 50/60Hz, single-phase,10AAmbient Temperature20-26°C (72-79°F)Relative Humidity<40%, non-condensing	Operating System	Windows 10	Windows 10		
Ambient Temperature20-26°C (72-79°F)Relative Humidity≤40%, non-condensing	Network Type and Protocol	Ethernet, TCP/IP	Ethernet, TCP/IP		
Relative Humidity ≤40%, non-condensing	Electrical Requirement	200-240VAC 50/60Hz, single-pha	200-240VAC 50/60Hz, single-phase,10A		
	Ambient Temperature	20-26°C (72-79°F)	20-26°C (72-79°F)		
Machine Warranty2 years (including laser)	Relative Humidity	≤40%, non-condensing	≤40%, non-condensing		
	Machine Warranty	2 years (including laser)	2 years (including laser)		



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