

# 600PRO

## 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 600Pro 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

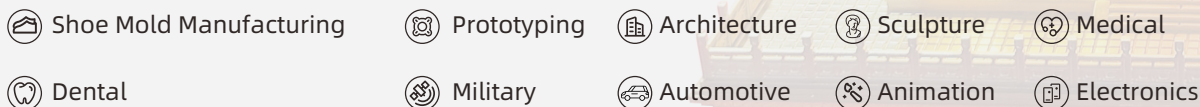
### • Enhanced Printing Efficiency

- Intelligent high speed scanning system, 15m/s
- Variable laser spot and variable power
- Automatic identifying upskin and downskin with differentiated parameters
- Different Parameter 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



## ◆ Technical Data

|                                         |                                                                               |
|-----------------------------------------|-------------------------------------------------------------------------------|
| Max Printing Size                       | 600*600*400mm                                                                 |
| Machine Size                            | 118cm(W)*129cm(D)*217cm(H)                                                    |
| Rated Power Consumption                 | 1.5KVA                                                                        |
| Machine Weight                          | 990kg                                                                         |
| First Tank Resin                        | 225kg                                                                         |
| Beam Size (diameter @1/e <sup>2</sup> ) | 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(72-79°F)                                                              |
| Relative Humidity                       | <40%, non-condensing                                                          |
| Machine Warranty                        | 1 years (including laser)                                                     |



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