SLA SERIES · INDUSTRIAL 3D PRINTING

JP-SLA-600

Industrial-Grade SLA Stereolithography 3D Printer

355 nm Solid-State Laser · 600 × 600 × 400 mm Build Volume

An **800-class platform in a 600 footprint.** With a **600 × 600 × 400 mm** build volume, a **355 nm** solid-state third-harmonic laser and customized variable-spot filling scanning, SLA600 delivers up to **500 g/h**. A marble base and welded steel frame hold accuracy stable over long runs, while automatic resin refilling, remote control and unattended operation keep the machine productive around the clock.

600 × 600 × 400	355 nm	6 – 12 m/s	0.1 – 0.6
Build Volume (mm)	Solid-state 3rd-harmonic	Scanning Speed	Spot Size (mm)



01 **600×600×400 Build Volume**
Large Format

02 **Variable Spot Scanning**
High Efficiency

03 **Marble Base Platform**
High Stability

04 **Intelligent Zoned Scanning**
Surface Aware

05 **Vacuum Scraper**
Uniform Coating

06 **Fully Unattended**
One-Key Start

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Key Advantages
CORE CAPABILITIES

01
Second-Generation Design
A fully upgraded second-generation body: a smaller footprint reduces transport cost, making SLA600 especially advantageous for small-batch manufacturing.

02
Marble Base Platform
A marble base paired with a welded steel-frame body absorbs vibration and resists thermal drift, holding accuracy stable through long continuous runs.

03
Variable Spot Scanning
A small spot of 0.1–0.12 mm refines contour detail, while a large spot of 0.4–0.6 mm speeds up infill — precision and throughput combined.

04
Welded Steel Frame
Sturdy, stable and easy to clean — a welded steel frame simplifies daily maintenance and workshop housekeeping.

05
Automatic Refilling & Level Control
A laser level sensor monitors the resin surface in real time and refills automatically — no manual resin top-up during long continuous prints.

06
Fully Unattended Production
A fully automatic process with one-key start and automatic anomaly alarms — from power-on to finished part, no manual attendance is required.

Self-Developed Control Software
AUTOMATED · REMOTE · CUSTOMIZABLE PRINT MANAGEMENT

Self-Developed Software
Fully self-developed and controllable, with continuous iteration and optimization.

Custom Functions & Brand UI
Custom function modules and a branded operating interface tailored to each customer.

PC Remote Control
Operate the machine from a PC — upload files, start / pause / resume — and monitor print status in real time.

Mobile App Monitoring
Check progress and receive alerts anytime, anywhere via the mobile app.

The control software is developed in-house by JIUPAI, covering the entire workflow from slicing to printing. Upload, start, pause, resume, progress monitoring and resin refilling are all completed online — the **only step that still needs hands is removing the part.**

Technical Specifications
JP-SLA-600

Model	**JP-SLA-600**
Printing Technology	**Stereo Lithography Apparatus (SLA)**
Build Volume	**600 × 600 × 400 mm**
Overall Dimensions	**1015 × 1255 × 1900 mm (L×W×H)**
Laser	**Solid-state third-harmonic Nd:YVO_4 · 355 nm**
Galvanometer	**Industrial-grade high-precision digital**
Scanning Mode	**Galvanometer scanning**
Scanning Speed	**Typical 6000 mm/s, max. 12000 mm/s**
Spot Size	**Small 0.1–0.12 mm, large 0.4–0.6 mm**
Layer Thickness	**0.06 – 0.15 mm**
Scraper	**Vacuum adsorption scraper**
Liquid-Level Detection	**Laser sensor, auto resin refilling**
Intelligent Zoned Scanning	**Surface / thin-wall differentiated**

Build Speed	**Up to 500 g/h**
Accuracy	**Part size < 100 mm: ±0.1 mm**
	Part size ≥ 100 mm: ±0.1%×L
Remote Control	**Remote upload / start / pause / resume**
Built-in Camera	**HD recording, anomaly alarm (optional)**
Operating System	**Windows 7**
Network & Protocol	**Ethernet, TCP/IP**
Data Interface	**SLC**
Material	**Specific photosensitive resin**
Power Supply	**220 V, 50 Hz / 110 V, 60 Hz**
Rated Input Power	**500 W**
Machine Weight	**600 kg (excluding resin)**

Applications
RECOMMENDED FIELDS


Prototyping
Drone Airframe


Automotive
Body Panels


Cultural & Creative
Figurines


Patterns & Molds
Relief Molds

Prototyping · Automotive · Cultural & Creative · Toys & Animation · Architectural Design · Electronics & Electrical · Auxiliary Medical · Other Industrial Fields

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