

ISLA 550

Make3d Industrial SLA 3D Printers

High-Precision SLA 3D Printing
Efficient and Cost-Effective Prototyping
Bring Your Idea into reality



INDUSTRIAL SLA MACHINE WORKING LINK : [SLA Industrial 3D Printer](#)

◆ Overview

ZRapid iSLA 550 3D Printer offers high-precision SLA 3D printing solutions for industrial applications, enabling efficient product development through digital design and prototyping. Utilizing 3D scanning data and professional CAD software, the iSLA 550 produces accurate concept models, functional prototypes, precision-engineered components, and master patterns with exceptional surface quality and dimensional accuracy.

◆ Advantages

- **Precision Marble Platform**

The Z-axis platform is built with a durable marble base, ensuring exceptional flatness and stability. This rigid structure enhances print accuracy and repeatability, especially for high-detail prototypes.

- **Ultra-Fine Layer Resolution**

With layer thickness options as low as 0.075mm and a precise recoating system, the iSLA 550 achieves ultra-smooth surfaces and sharp details, perfect for intricate part geometries.

- **Optimized Build Volume**

A compact 500 × 500 × 400 mm build area supports both prototyping and low-volume production, making it ideal for industries like electronics, medical devices, and engineering design.

◆ Ideal Applications

- Dental Models
- Medical Devices
- Electronics Housings
- Automotive Parts
- Tooling & Molding
- Architecture & Miniatures
- Education & Research
- Low-Volume Production

◆ Technical Data

Laser System	
Type	Diode-pumped solid-state laser Nd:YVO4
Wavelength	354.7nm
Laser power	3W

RECOATING SYSTEM	
Process	Intelligent reduced vacuum press recoater
Normal build layer thickness	0.1mm
Quick build layer thickness	0.125mm
Precise build layer thickness	0.075mm
Special build layer thickness	0.05-0.15mm

OPTICAL & SCANNING	
Beam (diameterΦ)	0.10-0.50 mm
Focus Style	Galvanometer scanning
Part drawing speed	Recommended 6.0m/s
Beam jump speed	Recommended 10.0m/s
Reference build weight	50-40g/h

RESIN VAT	
Volume	Approx. 146.0L (70kg)
Build envelope:	500mm(X)*500mm(Y)*400mm(Z)

◆ Technical Data

ELEVATOR

Platform	Marble platform
Elevator motor resolution	±0.01mm
Max build weight	60kg

SOFTWARE

Operating system	Windows 7, Ethernet, TCP/IP, IEEE802.3
Control software	iSLA (ZERO 5.0) build software
Date Preparation Software	3dLayer
Reference build weight	CLI file, SLC file, STL file

INSTALLATION CONDITION

Power	200-240VAC 50/60Hz, single phase, 5/10Amps
Ambient temperature	20-26°C
Relative humidity	Less than 40%, non-condensing
Size	1.45m(W)×1.05m(D)×1.85m(H)
Weight	Approx. 820kg

WARRANTY

Laser	5000 hours or 12months (whichever comes first)
Main machine	One year from installation date



A Trusted Collaboration Between



ZRapid Tech is a national high-tech enterprise dedicating to Industrial 3D Printing equipments, 3D Printing softwares, 3D Printing materials development, production, sales and technical services. They are the leading supplier of 3D printers in China and provides a one-stop 3D printing solution globally.



Make3D.in, headquartered in Surat, India, specializes in the manufacturing of industrial-grade 3D printers utilizing FDM and DLP technologies. In addition to its in-house products, Make3D.in is the exclusive partner of ZRapid for SLA 3D printers in India and an authorized partner for leading global brands, offering SLA, SLS, and Metal 3D printers, along with comprehensive 3D printing solutions across the country.