

Unleash Precision with Our Industrial SLA Resin 3D Printing Solutions

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Precision Pro SLA664

Industrial SLA Resin 3D Printer



Ready to take your manufacturing to new heights?

Look no further! Introducing our cutting-edge Industrial SLA Resin 3D Printing solutions – your gateway to unparalleled precision, speed, and quality in additive manufacturing.

Key Features

- **Extreme Precision:** Achieve intricate details and smooth surfaces with our advanced SLA resin formulation. Say goodbye to layer lines and hello to flawless, high-resolution prints.
- **Speed and Efficiency:** Boost your production efficiency with rapid curing times. Our Industrial SLA Resin allows you to meet tight deadlines without compromising on quality.
- **Versatility Unleashed:** From prototypes to end-use parts, our resin is engineered to meet the diverse needs of industrial applications. Create functional, durable, and customized components with ease.
- **Wide Material Range:** Choose from a variety of specialized resins, each tailored to meet specific industry demands. Whether you require rigid, flexible, or transparent prints, we have the perfect resin for the job.
- **Reliability Matters:** Trust in the consistency and reliability of our resin. Experience minimal material shrinkage and optimal adhesion, ensuring your prints are always of the highest quality.

Applications Across Industries

- **Aerospace:** Precision components and lightweight structures.
- **Automotive:** Prototyping, custom parts, and tooling.
- **Medical:** Surgical guides, dental models, and prosthetics.
- **Consumer Goods:** High-quality product prototypes and customization.
- **Electronics:** Enclosures, connectors, and circuitry components.

Contact Us Today!

Ready to revolutionize your manufacturing process? Contact us now to discover how our Industrial SLA Resin 3D Printing solutions can take your projects to the next level. Embrace precision, speed, and versatility like never before!

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Productivity and Flexibility

With a printing space of 600mm x 400mm x 400mm, this printer significantly boosts productivity and flexibility. The spot quality has been markedly enhanced, achieving an ovality of up to 97% and improved precision. This allows for the creation of precise components and assemblies with intricate structures. The system features the world's original Linux control software, offering automatic process parameter settings. Users can choose from three intelligent printing modes, simplifying the operation process. The overall forming process is highly automated, leading to improved human-computer interaction experience and enhanced system security. (Optional: Additional window for further customization)

High-Speed Printing Capability

Utilizing the original German high-speed galvanometer, this printer boasts swift scanning speeds. With an increased laser power of 3W, production efficiency is significantly enhanced. The resulting output showcases details and surface finishes comparable to injection molded parts, making it easy to perform various post-treatments.

Resin Printing Options

Through independent research and development, we offer a diverse range of up to 20 printing materials, each with distinct characteristics. Rigorous equipment matching tests are conducted to ensure a high-quality output, meeting various practical application needs.

Tailored Solutions

Our services extend beyond offering a range of optional free customizations; we also provide an array of modular upgrades. These include features such as a variable spot intelligent scanning system, automatic door opening, automatic feeding, automatic environment sensing, remote control, and more. These options cater to the customization requirements of Industry 4.0, ensuring a personalized experience.

Equipment Parameters

Laser system

- Diode pumped solid state laser Nd: YVO4
- UV wavelength: 354.7nm
- Maximum laser power: 3W (Variable spot)

Accuracy

- Z-axis repeated positioning accuracy: $\pm 0.01\text{mm}$
- Forming accuracy $L < 100\text{mm}$: ± 0.1 and $L \geq 100\text{mm}$: $\pm 0.1\%XL$

Coating system

- Intelligent positioning vacuum adsorption coating
- Normal production layer thickness: 0.1mm
- Special fabrication layer thickness: 0.05mm-0.20mm(Optional)

Resin tank

- First tank volume: 218.5L (250kg)
- Forming range: 600mm(X)*600mm(Y)*400mm(Z)

Optical scanning system

- Fixed spot diameter: 0.08mm-0.15mm
- Variable spot diameter: Small spot 0.08mm-0.15mm and Large spot 0.45mm
- High speed scanning galvanometer: Single galvanometer
- Part scanning speed: 6.0m/s-10m/s
- Reference fabrication weight: 75-180g/h

System and support

- Control software: Sirius
- Graphic format: STL, CTL, OBL, PLY, ZPR, ZBD, AMF, WRL, 3DS, FBX, MJPDDD, 3DPRINT, BFF, IGES, IGS, STEP and STP
- Operating system: Linux/Windows7
- Network type and protocol: Ethernet, TCP/IP, IEEE802.3