

Pilot 450

A New Dimension in Stereolithography 3D Printing

- Cost-effective ownership throughout entire life cycle.
- Freedom to collaborate and innovate: open design for materials and machine access.
- Printed parts demonstrate excellent sidewall quality and fine detail, contributing to lower post-finishing requirements.



Systemeigenschaften

- Key components from international top brands.
- Automatic control of surface level and processing parameters.
- CE certification.
- Granite recoater frame for enhanced recoating stability.
- Convenient assembly and disassembly of platform.

Technical Data

* Specifications are subject to change.
Consult with your sales representative for confirmation of current offering.

| Pilot 450 | | | |
|---------------------------|--|---------------------------|---|
| Technology Type | Stereolithography (SLA) | Network Type and Protocol | Ethernet, IEEE 802.3 using TCP/IP and NFS |
| Build Envelope Capacity | 450 × 450 × 400 mm | Electrical Requirements | 200-240 VAC, 50/60 Hz, Single phase |
| Accuracy | L < 100 mm: ±0.1 mm L ≥ 100 mm: ±0.1% × L | Rated Power | 2.4 kVA |
| Layer Thickness | 0.05 - 0.25 mm | Systems Control | Closed-loop |
| Recoater Frame | Granite | Temperature Range | 72–79 °F (22–26 °C) |
| Laser | Solid-state frequency tripled Nd: YVO ₄ | Maximum Change Rate | 1 °C/hour |
| Beam Size | 0.08 - 0.12 mm | Relative Humidity | < 40% non-condensing |
| Wavelength | 355 nm | Machine Size (W x D x H) | 1331 × 1370 × 2163 mm |
| Scanning Speed | 6 ~ 10 m/s | Machine Weight | 945 kg |
| Controlling Software | UnionTech™ RSCON | Initial Resin Weight | 160 kg |
| Data Preparation Software | Polydevs | Resin Tank | Manually replacing |
| Operation System | Windows 10 | Processing and Finishing | Post-Curing Unit (optional) |
| Input Data File Format | STL | Warranty | 12 months |



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