

BEACON Newsletter - April 2024

Formlabs Form 3+ Tips & Tricks: Mastering Your 3D Printing Potential

In this month's newsletter, we're thrilled to share updates, tips, and resources to help you get the most out of your Form 3+ 3D Printer.

Formlabs:

Formlabs is a 3D printing technology developer and manufacturer. Formlabs Printers are known to be reliable and affordable 3D printers for Professionals. Formlabs SLA 3D printers are office friendly and can be setup easily on a desktop and hence a great solution for inhouse 3D printing. Formlabs proprietary preform software helps prepare the CAD design and print it on Formlabs printers with just a few clicks. With Advanced Resin materials, Formlabs provides an opportunity to print anything from a small Jewellery to complicated Medical/Anatomical part.

Form 3+:

Flawless Prints, Every Time

Scale prototyping and production as your business grows with the Form 3+, an affordable, industrial-quality 3D printer that consistently delivers.



1. Form 3+ Enhancements:

- **Enhanced Performance:** The Form 3+ features upgraded hardware and software optimizations for even better print quality and reliability. Experience smoother prints, finer details, and faster turnaround times with the Form 3+.
- **Improved Resin Handling:** With the Form 3+, resin handling is easier than ever. Our intuitive cartridge system and automatic resin dispensing ensure hassle-free printing, while the integrated resin filter maintains resin quality for consistently high-quality prints.
- **Expanded Material Compatibility:** The Form 3+ is compatible with a wide range of resins, including standard, engineering, and jewellery materials. Whether you're prototyping, producing end-use parts, or creating intricate appliances, there's a resin for every application.

2. Tips and Tricks:

- **Optimizing Print Settings:** Take advantage of the Form 3+'s advanced print settings to achieve optimal results for your specific application. Adjust parameters such as layer thickness, supports, and orientation to balance print quality, speed, and material usage.
- **Resin Handling Best Practices:** Proper resin handling is essential for successful 3D printing. Store resins in a cool, dry place away from direct sunlight, and ensure cartridges are properly sealed when not in use. Follow recommended safety precautions when handling resins to protect yourself and prolong resin lifespan.
- **Maintenance and Care:** Keep your Form 3+ in top condition with regular maintenance and care. Clean the build platform and resin tank after each print, inspect for any signs of wear or damage, and perform routine maintenance tasks as outlined in the user manual.

3. Featured Applications:

- **Product Prototyping:** The Form 3+ is ideal for rapid prototyping, allowing designers and engineers to quickly iterate on designs and test functional prototypes with high precision and accuracy.



- **Custom Jewellery Design:** Jewellery designers can create intricate, detailed pieces with the Form 3+, leveraging a variety of resins to achieve different finishes and properties. From concept to final product, the Form 3+ enables unparalleled creativity and craftsmanship.



- **Engineering Excellence in Manufacturing:** Streamline manufacturing processes and reduce time-to-market with the Form 3+. Create functional prototypes, tooling, and end-use parts with a wide range of engineering materials, pushing the boundaries of what's possible.



- **Educational Empowerment:** Inspire the next generation of innovators with the Form 3+. Empower students and educators alike to explore design concepts, experiment with prototyping, and unleash their creativity in the classroom.



- **Architectural Advancements:** Realize architectural visions with precision and efficiency using the Form 3+. From scale models to intricate architectural details, bring designs to life with accuracy and attention to detail.



- **Artistic Expression Unleashed:** Push the boundaries of artistic expression with the Form 3+. From sculptures and installations to intricate artworks, unleash your imagination and transform digital designs into tangible masterpieces.



- **Aerospace Advancements:** Propel aerospace innovation forward with the Form 3+. From lightweight components to complex geometries, leverage the Form 3+'s capabilities to push the boundaries of aerospace engineering.



4. Community Spotlight: We highlight the innovative work of Form 3+ users around the world, showcasing their projects, insights, and achievements. From groundbreaking research to stunning artistic creations, the Form 3+ community continues to inspire and push the boundaries of 3D printing.



We hope you found it informative and inspiring. Stay tuned for future updates, and don't hesitate to reach out with any questions or feedback.

Happy printing!

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