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microArch® S140

10µm Resolution Series

This 10µm series 3D printer is the ideal solution for businesses and universities requiring ultra-high resolution, accuracy, and precision in a desktop package. Within the 10µm series, the S140 3D printer is our industrial workhorse, with the ability to print with engineering-grade materials – specifically designed to meet the needs of industrial production. BMF's microArch S140 offers a level of precision and accuracy that delivers the most challenging micro parts at production quality.

Resolution × Accuracy × Precision

Features

- **Feature Size:** Capable of printing with minimal 3D feature size of 50µm or better.
- **Open Material System:** Capable of running with 405nm resin formulations prepared by the customer or sourced from other suppliers.
- **Fully Customizable Printing Parameters:** For full control over builds, with the option for some automatic parameters for ease of use as well.
- **Light Source:** Stability with a pixel resolution of 10µm.
- **Laser Displacement Sensor:** To assist with precise leveling and calibration.
- **Heated Resin Vat:** To provide a consistent printing temperature suitable for more complex environments and diverse materials.
- **3 Print Modes:** Single Exposure, Array, Multi-Exposure
- **Bubble Scraper:** Equipped with a scraper attachment to remove air bubbles from the resin before polymerization.



System	DIMENSIONS	650 x 700 x 790mm
	WEIGHT	92KG
Performance	BUILD SIZE	94 x 52 x 45mm
	PRINTING MATERIAL	Photosensitive resin
	XY RESOLUTION	10µm
	XY POSITIONAL ACCURACY	± 1µm
	LAYER THICKNESS	10–40µm
	SURFACE FINISH	0.4–0.8µm Ra (top) 1.5–2.5µm Ra (side)
Facility	POWER SUPPLY	2000w
	ELECTRICAL REQUIREMENT	110 – 120 VAC, 50–60Hz, Single Phase, 10 Amps 220 – 240 VAC, 50–60Hz, Single Phase, 5 Amps
	CERTIFICATIONS	CE