

# microArch® S240

## 10µm Resolution Series

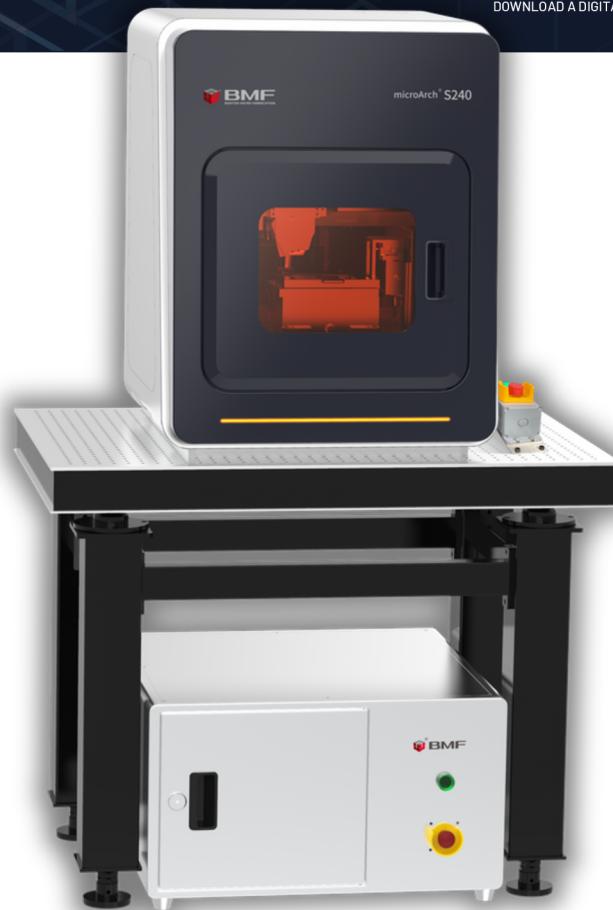
The microArch S240 is a microprecision 3D printer designed to meet the needs of short-run industrial production. The printer combines a large build volume, fast printing speeds and advanced materials with ultra-high resolution, accuracy and precision.

The microArch S240 is built upon BMF's Projection Micro Stereolithography technology or PµSL, a technique that allows for rapid photopolymerization of liquid polymers using flashes of UV light at microscale resolution. The production of intricate, exact and replicable parts makes PµSL well-suited for end-part and prototyping use across a wide range of industries, including medical device manufacturing, microfluidics, MEMS, biotech and pharma, electronics, education, and research and development.

**Resolution × Accuracy × Precision**

### Features

- Feature Size:** Capable of printing with minimal 3D feature size of 50µm or better.
- Precise Automatic Calibration:** Quickly and automatically calibrate the level of the platform, membrane, and roller, decreasing printer turnover time. Increased throughput, ease of use, and build-to-build repeatability.
- 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
- Roller:** Reduces material leveling time in between layers and allows for the capability to run with resin formulations up to 15,000 cP.
- Bubble Scraper:** Equipped with a scraper attachment to remove air bubbles from the resin before polymerization.



<b>System</b>	<b>DIMENSIONS</b>	650 x 700 x 790mm
	<b>WEIGHT</b>	130KG
<b>Performance</b>	<b>BUILD SIZE</b>	100 x 100 x 75mm
	<b>PRINTING MATERIAL</b>	Photosensitive resin, ceramic
	<b>XY RESOLUTION</b>	10µm
	<b>XY POSITIONAL ACCURACY</b>	±1µm
	<b>LAYER THICKNESS</b>	10–40µm
	<b>SURFACE FINISH</b>	0.4–0.8µm Ra (top) 1.5–2.5µm Ra (side)
<b>Facility</b>	<b>POWER SUPPLY</b>	2000w
	<b>ELECTRICAL REQUIREMENT</b>	110 – 120 VAC, 50-60Hz, Single Phase, 10 Amps 220 – 240 VAC, 50-60Hz, Single Phase, 5 Amps
	<b>CERTIFICATIONS</b>	CE