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INTRODUCING THE

microArch® D1025

Dual Resolution Series

Powered by PuSL, the dual resolution microArch D1025 prints in either 10µm or 25µm resolution for the entire build, or switching between layers.

With improved built-in automation, this capability enables greater efficiency - saving time, resources, and cost. Delivering the same ultra-high resolution, accuracy, and precision BMF is known for, the new D1025 will revolutionize the prototyping and production of parts requiring micron-level precision and repeatability.

Resolution × Accuracy × Precision

The microArch D1025 is an ideal choice for researchers and manufacturers seeking versatility with the ability to print at two different resolutions. This flexibility enhances efficiency and is complemented by advanced built-in automation features.



Features

- **Switch between 10µm and 25µm:** Build with higher resolution when more accuracy and precision is needed, or switch to lower resolution for quicker builds.
- **Improved DLP projection:** Larger projection zones resulting in faster print times while still producing high-precision parts.
- **Automatic calibration system:** Quickly and automatically calibrate the level of the platform, membrane, and roller, decreasing printer turnover time.
- **Automatic printing parameters:** Print settings for roller frequency and resin leveling delay times are automatically set according to the printing area and material viscosity when using automatic mode. Users still have full manual control if desired.
- **Automatic resin adjustment:** Automatically and accurately adjust resin (viscosity < 500 cPs) amount in vat to achieve a suitable resin level height.
- **Side-shifting membrane:** No need to remove or reinstall the membrane in between builds, which increases uptime.
- **Scraper and roller:** Eliminate air bubbles and reduce leveling time.
- **Resin VAT heating system:** Suitable for more complex environments and diverse materials.

System	DIMENSIONS	1350 x 900 x 1950mm
	WEIGHT	500KG
Performance	BUILD SIZE	100 x 100 x 50mm
	PRINTING MATERIAL	Photosensitive resin
	XY RESOLUTION	10µm and 25µm
	XY POSITIONAL ACCURACY	± 1µm
	LAYER THICKNESS	10-50µm
	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