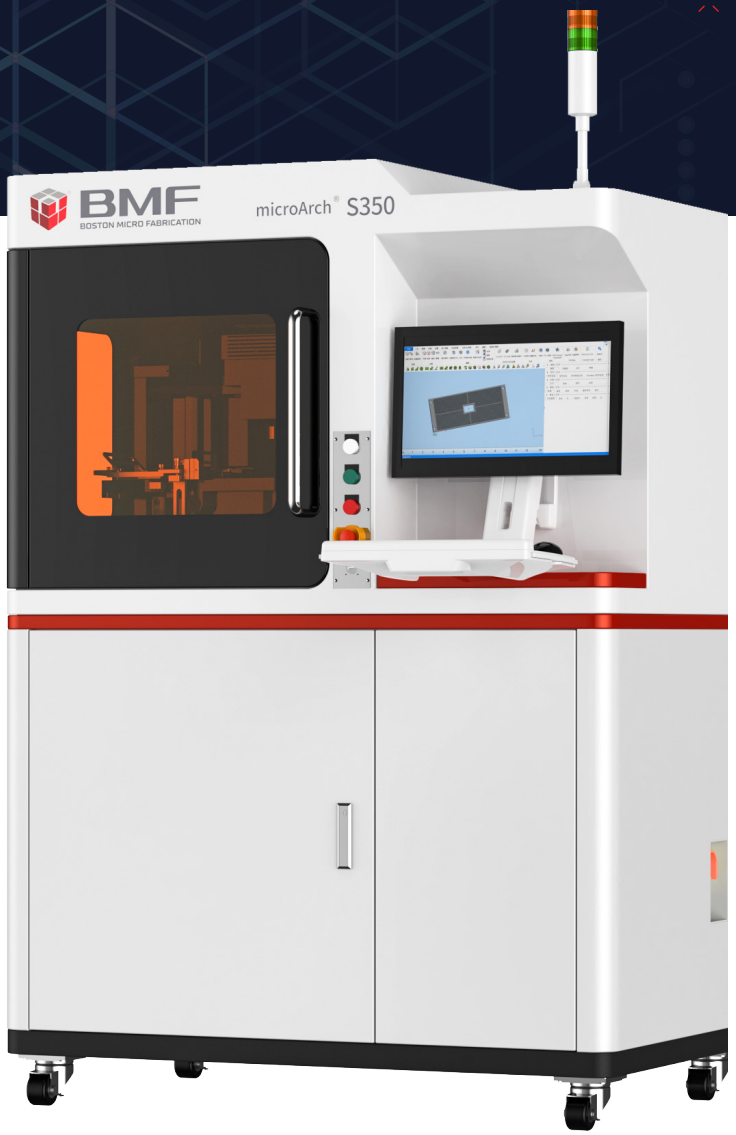
RESOLUTION × ACCURACY × PRECISION

DATA SHEET

BMF



INTRODUCING THE

microArch S350 25µm

The microArch S350 combines high part quality with increased speed and throughput. With increased ease of use and built-in automation, the S350 is BMF's highest throughput printer designed for end part production.

Our newest platform, the microArch S350 is a 25µm platform which can be used not only for printing micro-scale parts with high-resolution features, but also for a broader range of small parts requiring high accuracy or precision. The microArch S350 is perfect for researchers and manufacturers for prototyping and production in the 1000-30,000 part volume range for parts requiring ultra-high resolution, accuracy, and precision.

Features

- **Automated lateral membrane shift - enables automated part removal with option for robotic integration**
- **Auto resin adjustment with resin cassette**
- **Laser displacement sensor**
- **Advanced roller system spreads layers in seconds**
- **Larger DLP chip –> 6 projection zones – resulting in faster printing speeds**

System	DIMENSIONS	1350 x 850 x 1900mm
	WEIGHT	500kg
Performance	BUILD SIZE	100 x 100 x 50mm
	PRINTING MATERIAL	Photosensitive resin, ceramic
	XY RESOLUTION	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

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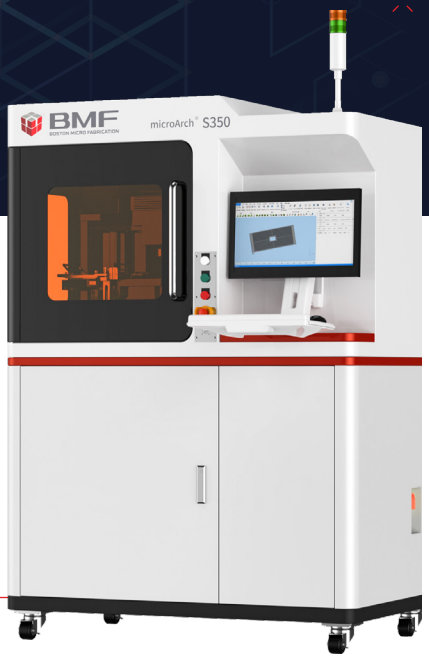


microArch S350
feature resolution

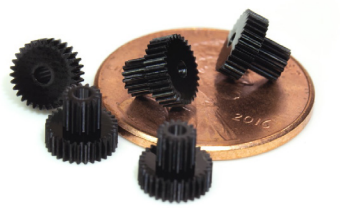
Compared minimum feature size @ ±50µm tolerance

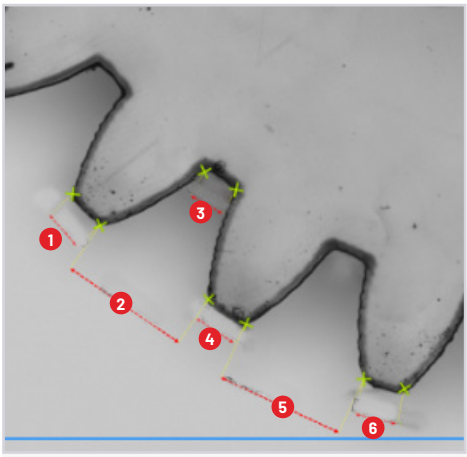
Gear

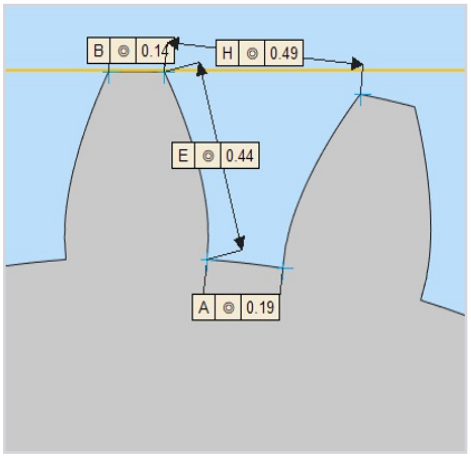
DIMENSIONS 6mm x 6mm x 5mm

RESOLUTION 25µm

TOLERANCE ±0.050mm







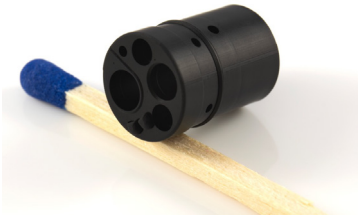
1 0.152mm 2 0.481mm 3 0.133mm 4 0.165mm
5 0.476mm 6 0.153mm

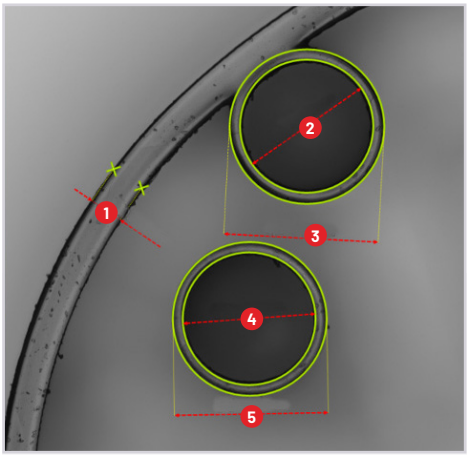
Endoscope Shell

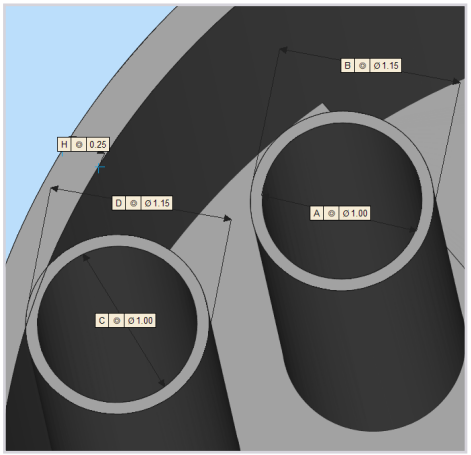
DIMENSIONS 9.8mm x 9.8mm x 13.8mm

RESOLUTION 25µm

TOLERANCE ±0.050mm







1 0.254mm 2 0.999mm 3 1.159mm 4 0.996mm 5 1.154mm

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