

Shop System™ Printer Specifications

The Shop System™ is the world's first metal binder jetting system designed specifically for machine shops—enabling shops to easily produce parts with exceptional surface finish and resolution at scale.

With production rates up to hundreds of green parts per day, the Shop System™ produces parts up to 10x faster than laser powder bed fusion¹. Employing a ~1 pL droplet size, the Shop System™ achieves superior surface finish, bleed control and rich feature detail at high speed.

Key benefits

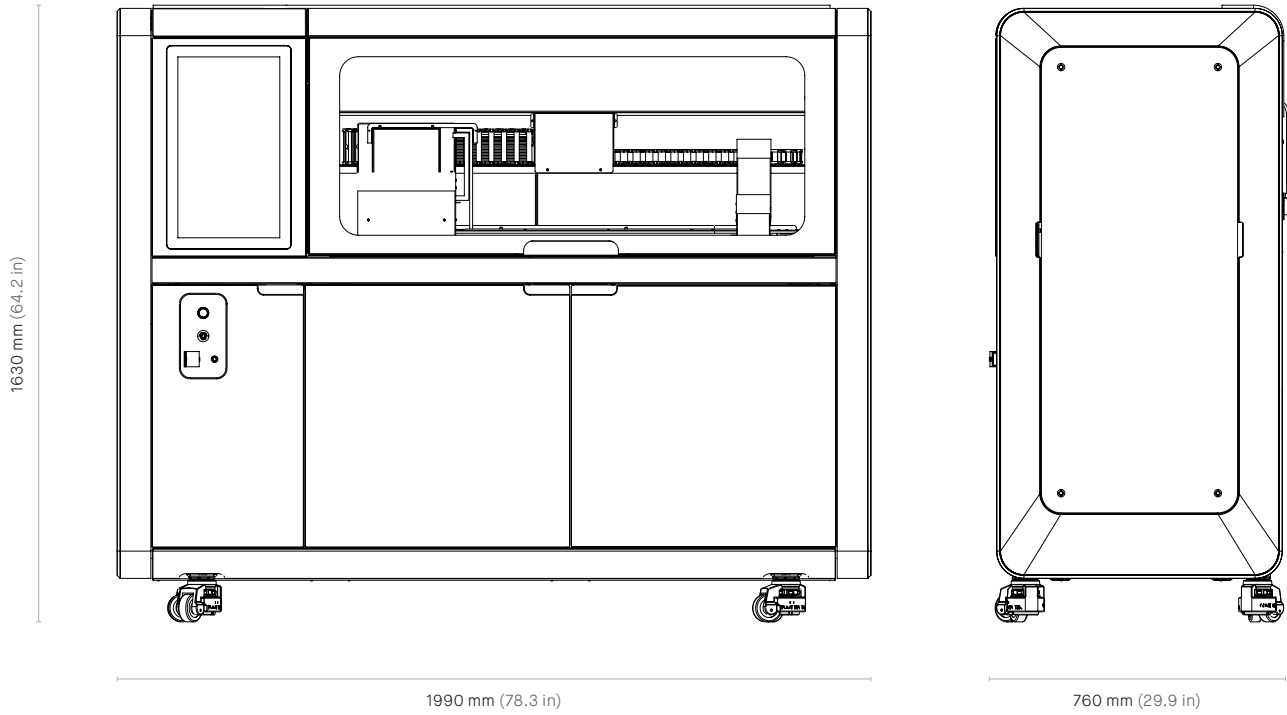
- Turnkey system, from printing through sintering and powder recycling
- High resolution printing (1600 dpi)
- Maximum throughput of 800 cc/hr
- Configurable build envelope
- Print previously inaccessible complex geometry
- Flexible production from low-volume batches through mid-volume production

TECHNOLOGY	Print technology	Binder Jetting
	Print direction	Uni-directional
PERFORMANCE	Maximum throughput	800 cc/hr
	Layer thickness	50 µm - 100 µm
	Native printhead resolution	1600 dpi (1 pL native drop size)
	Dimensional tolerance of parts	± 3.0%
	Binder jetting module	70,000 nozzles (5x redundancy)
PHYSICAL	External dimensions (H x W x D)	1630 x 1990 x 760 mm (64.2 x 78.3 x 29.9 in)
BUILD ENVELOPES	4L	350 x 222 x 50 mm (13.8 x 8.7 x 2.0 in)
	8L	350 x 222 x 100 mm (13.8 x 8.7 x 3.9 in)
	12L	350 x 222 x 150 mm (13.8 x 8.7 x 5.9 in)
	16L	350 x 222 x 200 mm (13.8 x 8.7 x 7.9 in)
ELECTRICAL	Power requirements	100-120V, 12.5A. 220-240V, 5.6A. 50/60 Hz, 1.03 kW

1. Based on published speeds of single-laser, mid-range laser powder bed fusion systems as of September 22, 2020.

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DIMENSIONS



SolidManufacturing

3D Manufacturing Solutions

a SolidWorld Group company

Desktop Metal

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