

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 of up to hundreds of green parts per day, the Shop System™ produces parts up to 10x faster than laser powder bed fusion*. Employing a ~1 pL droplet size, the Shop System™ achieves superior surface finish, bleed control and rich feature detail at high speed. The Shop System is now available in three packages, enabling reductions in operating costs and material flexibility for high throughput customers.

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	1,600 dpi (1 pL native drop size)
	Dimensional tolerance of parts	± 2.0%***
	Binder jetting module	70,000 nozzles (5x redundancy)
PHYSICAL	External dimensions (W x D x H)	1,990 x 760 x 1,630 mm (78.3 x 29.9 x 64.2 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

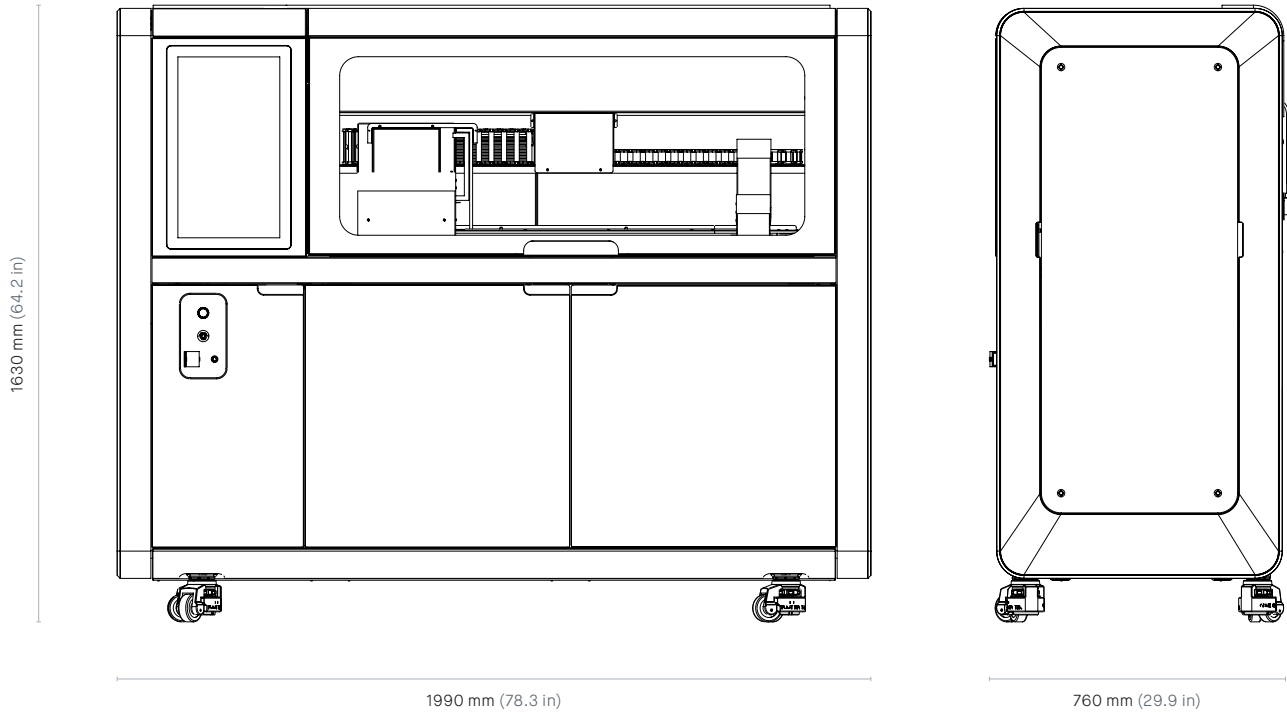
* Based on published speeds of single laser, mid-range laser powder bed fusion systems available as of May 6, 2022 and using comparable materials and processing parameters as applicable

** Performance specifications qualified using Desktop Metal powders

*** Tighter tolerances achievable through the use of Desktop Metal's proprietary Live Sinter™ sintering simulation and compensation software

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DIMENSIONS



PACKAGES

	Shop System™	Shop System™ +	Shop System™ Pro
TURNKEY HARDWARE, SOFTWARE AND MATERIALS	X	X	X
DM BINDER	Required	Required	Required
USE OF DM-ENGINEERED POWDERS	Required	Required	Recommended*
DISCOUNTED DM BINDER AND POWDERS		X	X
CUSTOM PRINTING AND SPREADING PARAMETERS			X
DM FURNACE CUSTOM SINTERING PROFILES			X*

* Some restrictions apply — contact sales for further information