

SHOP SYSTEM™

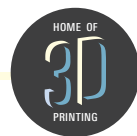
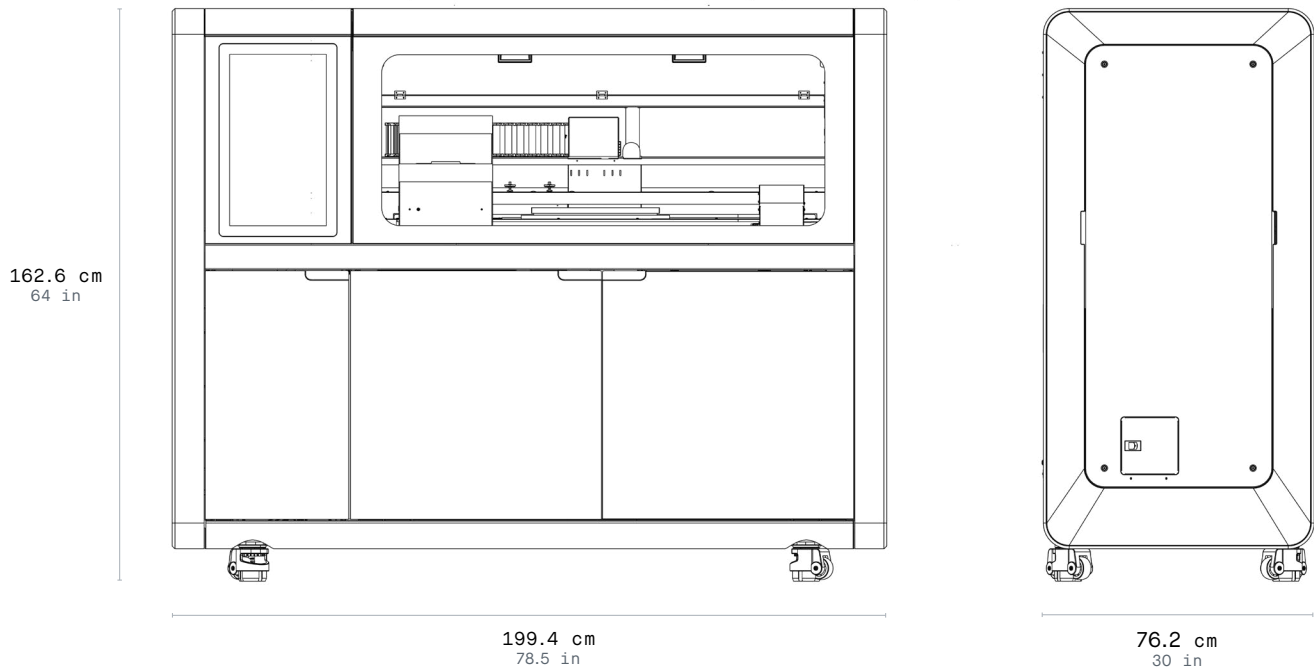
System specifications

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 70kg of metal parts per day, the Shop System™ produces parts up to 10x faster than laser powder bed fusion. Employing a ~1pL droplet size and automated drop multiplexing up to 6pL, the Shop System achieves superior surface finish, bleed control and rich feature detail at high speed.

TECHNOLOGY	Print technologies	Binder Jetting
	Print direction	Unidirectional
PERFORMANCE	Layer height	40-100 µm
	DPI	1600 dpi 1 pL drop size
	Dimensional tolerance of parts	+/- 3.0%
	Binder jetting module	70k nozzles 5x redundancy
	Printhead configuration	1 easily replaceable printhead
EXTERNAL DIMENSIONS	Printer	199.4 x 76.2 x 162.6 cm 78.5 x 30 x 64 in
	Powder station	101.6 x 68.6 x 162.6 cm 40 x 27 x 64 in
	Drying oven	66 x 62.2 x 90.2 cm 26 x 24.5 x 35.5 in
	Blender	76.2 x 39.4 x 80 cm 30 x 15.5 x 31.5 in
	Powder kegs	Height : 280 mm Diameter : 250 mm Maximum Volume : 10.6 L
	Furnace	138.0 x 75.4 x 161.8 cm 54.3 x 29.7 x 63.7 in
BUILD ENVELOPES	4L	35 x 22.2 x 5 cm 13.8 x 8.7 x 2 in
	8L	35 x 22.2 x 10 cm 13.8 x 8.7 x 3.9 in
	12L	35 x 22.2 x 15 cm 13.8 x 8.7 x 5.9 in
	16L	35 x 22.2 x 20 cm 13.8 x 8.7 x 7.9 in
POWER REQUIREMENTS	Power requirements (excluding furnace and oven)	110/220 V, 50/60 Hz
	Power requirements (drying oven)	220 V, 50/60 Hz
	Power requirements (furnace)	08 - 220 VAC, 50/60 Hz, 30 A, 3-phase dedicated circuit 380 - 400 VAC, 50/60 Hz, 16 A, 3-phase dedicated circuit

DIMENSIONS



alphacam GmbH
Erlenwiesen 16
D-73614 Schorndorf
Tel.: +49 (0) 71 81 92 22-0
info@alphacam.de

alphacam austria GmbH
Handelskai 92, Gate1 / 2. OG / Top A
A-1200 Wien
Tel.: +43 (0) 1 36 19 600-0
info@alphacam.at

alphacam swiss GmbH
Zürcherstrasse 14
CH-8400 Winterthur
Tel.: +41 (0) 52 262 07-50
info@alphacam.ch

