

Shop System™ — Forust Edition Specifications

The Shop System™ Forust Edition is the world’s first commercial binder jetting solution powered by the Forust process to upcycle byproducts of traditional wood manufacturing into functional, end-use wood parts through high-speed 3D printing. With the Shop System™ Forust Edition, architects, designers, and manufacturers can produce luxurious custom wood pieces that combine design and functionality for home decor and lighting, consumer products, architectural design, and automotive applications.

Through advanced printheads and high-speed binder jetting technology, the Shop System™ Forust Edition offers high-resolution 3D printing of wood parts with realistic grain patterns. Additive manufacturing also offers a superior environmental footprint and intricate, complex designs previously unobtainable with subtractive wood processing methods. Forust parts can be sanded, stained, polished, dyed, coated, and refinished in the same manner as traditionally manufactured wood products.

Key benefits

- Turnkey solution for printing functional, end-use wood parts
- High-resolution printheads (1600 dpi)
- High-speed printing up to 1,600 cc/hr
- Realistic, digitally created wood grain available
- Print previously unobtainable geometries
- Flexible, low-cost batch production of custom designs
- Sustainable environmental footprint with upcycled waste product inputs

TECHNOLOGY	Print technology	Binder Jetting
	Print direction	Uni-directional
PERFORMANCE	Maximum throughput	Up to 1,600 cc/hr
	Layer thickness	200 µm*
	Native printhead resolution	1600 dpi (1pL native drop size)
	Dimensional tolerance of parts	± 2.0%**
	Binder jetting module	70,000 nozzles (2 colors)
	Wood grain patterns	5 available options
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	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

* 200µm recommended; range of layer thicknesses available.

** Tighter tolerances achievable through process tuning.



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DIMENSIONS

