Snapmaker J1
High Speed IDEX 3D Printer

IDEX Made Faster

| Breakaway & Dissolvable Supports | Print in Parallel | Advanced Materials Printing | Intelligent Calibration | Ultra-fast Printing | One-piece Die Casting |

Max. Speed
350 mm/s

Max. Acceleration
10,000 mm/s²

Specifications

Printing Properties

Technology	Fused Filament Fabrication (FFF)
Extruder System	Independent Dual Extruders (IDEX)
Printing Modes	1. Default Mode 2. Backup Mode 3. Copy Mode 4. Mirror Mode
Build Volume (W × D × H)	Default Mode & Backup Mode: 300 mm × 200 mm × 200 mm Copy Mode: 160 mm × 200 mm × 200 mm Mirror Mode: 150 mm × 200 mm × 200 mm
Layer Height (with 0.4 mm nozzle)	0.05 mm–0.3 mm
Build Plate	PEI glass plate
Max. Heated Bed Temperature	100ºC
Nozzle Diameter	0.4 mm (included) 0.2 mm, 0.6 mm, 0.8 mm, Hardened (sold separately)
Max. Nozzle Temperature	300ºC
Filament Diameter	1.75 mm
Max. Acceleration	10,000 mm/s^2
Max. Speed	350 mm/s
Supported Materials	PLA, ABS, HIPS, PC, TPU, TPE, PETG, ASA, PP, PVA, PA, PA-GF, PA-CF
Data Transmission Methods	Wi-Fi, USB cable, USB flash drive
Operating Noise	< 50 dBA

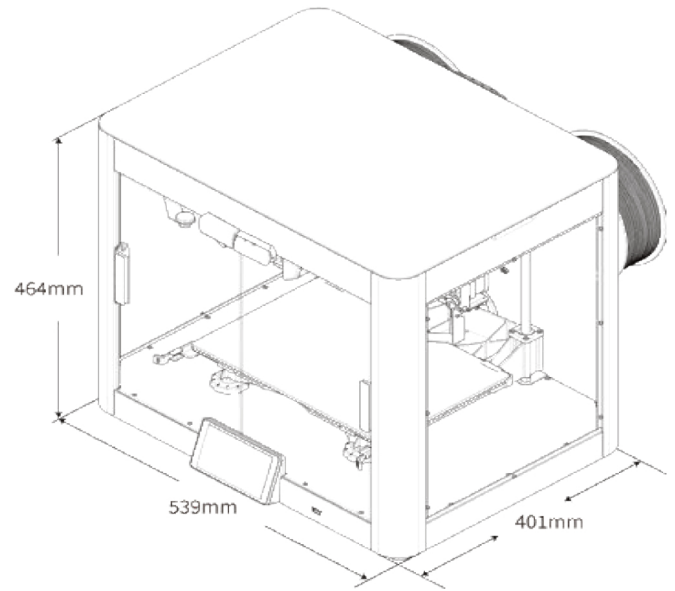## Operating Conditions

Operating Environment	Temperature: 10ºC–35ºC Relative Humidity: 10%–90% (non-condensing)
Storage Environment	Temperature: -20ºC–55ºC Relative Humidity: 10%–90% (non-condensing)

Power

Input	Rated Voltage: AC 100 V–240 V, 50 Hz/60 Hz Rated Current: 4.4 A Max.
Output	DC 24 V, 400 W Max.

Machine Properties

Dimensions

464mm   539mm   401mm

Net Weight	25 kg
Touchscreen	Size: 5 in. OS: Android Resolution: 1280 × 720 pixels
Memory	1 GB RAM, 8 GB eMMC
Repeatability of Linear Rails	± 0.03 mm (X/Y) ± 0.02 mm (Z)
Expected Lifespan of Linear Rails	Over 10 Years

Software

Supplied Software	Luban (third-party software supported)
Supported OS of Luban	Windows, macOS, Linux
Supported File Formats	STL, OBJ, 3MF
Output File Formats	Gcode

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*These parameters are subject to change due to iterations.