

Printer technical data

The Studio System™ printer was designed from the ground up for simple installation and use. Its process is similar to the safest, most widely used 3D printing process—Fused Deposition Modeling (FDM). Unlike laser-based systems that selectively melt metal powder, the Studio printer extrudes bound metal rods, eliminating the safety requirements associated with metal 3D printing and enabling new features like the use of closed-cell infill for lightweight strength.

Printer properties	Print technology	Bound Metal Deposition™
	Build volume	12,585 cm ³ (768 in ³) / 30.5 x 20.5 x 20.5 cm (12 x 8 x 8 in)
	Max part dimensions (post-shrink)	25.5 x 17 x 17 cm (10 x 6.7 x 6.7 in)
	Build rate	16 cm ³ /hr (1 in ³ /hr)
	Extruder assembly	Dual, quick-release printheads
	Extruder calibration	Automatic
	Nozzle diameter	0.4 mm
	Motion system	Precision ball screws
	Minimum layer height	50 μm
	Maximum part weight	10 kg (22 lbs)
	Build media	Bound metal rods (metal powder + wax and polymer binder)
	Interface media	Bound ceramic rods (for patent-pending interface layer)
	Media holding	Safe-to-handle, hot-swappable media cartridges
	Support structures	Separable Supports™
	Build plate	Heated, up to 70 °C (158 °F)
	Build plate cover	Polypropylene print sheets
	Build plate leveling	Automatic
	Build chamber	Heated, up to 50 °C (122 °F)
Physical	External dimensions	w 83 x d 53 x h 95 cm (33.7 x 20.9 x 37.4 in)
	Weight	97 kg (214 lbs)
Connectivity	Network	WiFi and Ethernet
	Power	120V, 20A, 50-60Hz
Software	Supplied software	Studio System™ cloud software
	Browser requirements	Accessible via any web browser
	Supported file types	STL, IGES, JT, STEP, VDA-FS, U3D, VRML and native file types (Solidworks, ProE, others)
	Onboard intelligence	<ul style="list-style-type: none"> Automated build plans based on geometry and material System status and build monitoring
	Onboard control	7" touchscreen printer console