

STUDIO SYSTEM

Printer specifications

The 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 Filament Fabrication (FFF). Unlike laser-based systems that selectively melt metal powder, the Studio System™ printer extrudes bound metal rods, eliminating the safety requirements associated with metal 3D printing and enabling new features like closed-cell infill for lightweight strength. New features introduced with Studio System+ include high-resolution printing and an in-chamber camera for live viewing of the part as it prints.

TECHNOLOGY	Print technology	Bound Metal Deposition™
	Support technology	Separable Supports™
	Interface technology	Ceramic Release Layer™
PERFORMANCE	Max build rate	16 cm ³ /hr 1 in ³ /hr
	Layer height	<ul style="list-style-type: none"> • 50 μm high resolution printhead • 100-220 μm standard resolution printhead
	Max build weight for all parts in job	6.5 kg 14.3 lbs in green state
	Safety features	Over-temperature protection
PHYSICAL	External dimensions	94.8 x 82.3 x 52.9 cm 37.3 x 32.4 x 20.8 in
	Weight	97 kg 214 lbs
	Build chamber	Heated up to 50 °C 122 °F
	Extruder assembly	Dual quick-release print heads
	Build envelope*	30 x 20 x 20 cm 12 x 8 x 8 in
	Build plate	<ul style="list-style-type: none"> • Heated, up to 70 °C 158 °F • Vacuum-enabled print bed
	Print sheets	Polypropylene, peel-away
	Nozzle diameter build media	<ul style="list-style-type: none"> • 0.40 mm standard resolution • 0.25 mm high resolution
	Nozzle diameter interface media	0.40 mm
	Power requirements	100-130 VAC, 50/60Hz, 15 A, 1-phase 220-240 VAC, 50/60Hz, 10 A, 1-phase
	Onboard control	7-inch touchscreen display
	Chamber view	<ul style="list-style-type: none"> • Glass doors and clear polycarbonate siding for 360° view • In-chamber build plate camera
	MEDIA	Media holding
Media loading		Push-to-release
Build media		Bound metal rods (metal powder + wax and polymer binder)
Interface media		Bound ceramic rods

*build volume applies to printers with part number BMD-PP0003

PLATFORM

Network connectivity	Wireless and Ethernet
Software	Fabricate™ 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, etc)
Automation	<ul style="list-style-type: none"> • Auto-generated build plans based on geometry and material • RFID-enabled supply monitoring • Live job progress tracking

DIMENSIONS

