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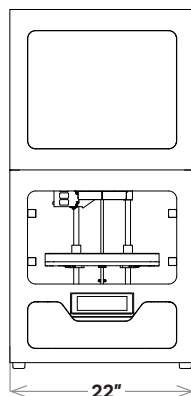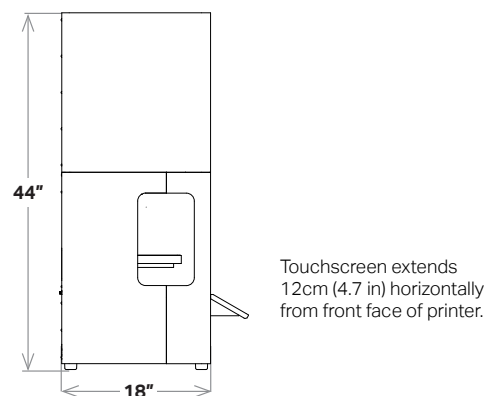
Metal X (Gen 2)

The Metal X is a revolutionary 3D printer that prints metal powder bound in a plastic matrix to eliminate safety risks associated with traditional metal 3D printing methods while enabling new features like close-cell infill for reduced part weight and cost. It's up to 10x less expensive than alternative metal additive manufacturing technologies — and up to 100x less than traditional fabrication technologies like machining or casting. Affordable, reliable, and easy to use, the Metal X print system gives you everything you need to go from design to fully functional metal parts faster than ever before.

Printer Properties		
	Process	Metal fused filament fabrication
	Build Volume	300 x 220 x 180 mm (11.8 x 8.7 x 7.1 in)
	Machine Size	575 x 467 x 1,120 mm (22.7 x 18.4 x 44.1 in), 75 kg (160 lbs) Touchscreen: 12 cm (4.7 in) horizontal extension
	Print Chamber	Heated
	Print Bed	Heated, vacuum-sealed print sheet, auto bed leveling
	Print System	Two nozzles — Metal material and release material
	Power Requirements	100–120 / 200-240 VAC (12A / 6A), IEC 60320 type C20
	RF Module	Operating Band 2.4 GHz Wi-Fi Standards 802.11 b/g/n

Materials		
	Metal Material	Stainless steel (17-4 PH), Tool steel (H13, A2, D2), Inconel 625, Copper
	Release Material	Ceramic (consumed at 1:10 ratio to metal spools, on average)
	Media (Spools)	Filament fed, bound powder

Part Properties		
	Max Part Size	250 x 183 x 150 mm (9.8 x 7.2 x 5.9 in), 10kg
	Supports	Metal material with ceramic release layer
	Layer Height	50µm and 125µm post-sinter

Software		
	Supplied Software	Eiger Cloud (Other options available at cost)
	Security	Two-factor authentication, org admin access, single sign-on

FRONT VIEW

22"

SIDE VIEW

44"

18"

Touchscreen extends 12cm (4.7 in) horizontally from front face of printer.

Note: All specifications are approximate and subject to change without notice.

PX100 Machine Specifications

The PX100 is a precise, reliable Binder Jetting machine built on nearly two decades of proven excellence, combining production speed additive fabrication with industry leading part resolution. It comprises one part of the PX100 system, which includes powder handling machines and furnaces to deliver end to end production capabilities. The system is highly configurable and has a wide range of available materials.

Outstanding productivity

→ Capable of print speeds up to 1,000 cm³ per hour

→ Printhead with 70,400 nozzles delivering 2pL droplets at 15.5 kHz

→ Easily exchangeable powder magazine for fast material & build changeover

Detailed precision and quality

→ Static accuracy better than 1µm

→ 1600 dpi resolution with industry leading accuracy and repeatability

→ Robust machine design minimizes downtime and unscheduled stops

Built for your needs

→ Fully customizable, open system

→ Equipped for future updates, such as inertization and automation modules

→ Optimized powder utilization: close to 100% of excess powder is recycled

Printing System	Page-wide print system with 70,400 ink nozzles
Machine Footprint	2700 x 1000 x1700 mm (L x W x H)
Build Volume	250 × 217 × 70 mm or 250 × 217 × 186 mm (L x W x H)
Weight	2000 kg
Typical Productivity	500 – 1,000 cm3 /h
Accuracy	Static accuracy better than 1µm
Power Consumption	3.5 kW (average)
Material Deposition	Recoating with powder applicator
Material Recirculation	Yes, with no degradation

Available Materials

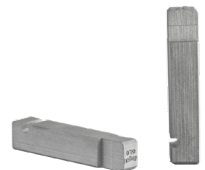17-4PH Stainless Steel

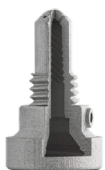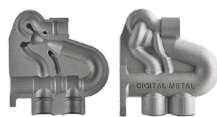316L Stainless Steel

4140 Steel

H13 Tool Steel

D2 Tool Steel

Alloy 247

Alloy 625

Alloy 718

Copper

Ti6Al4V