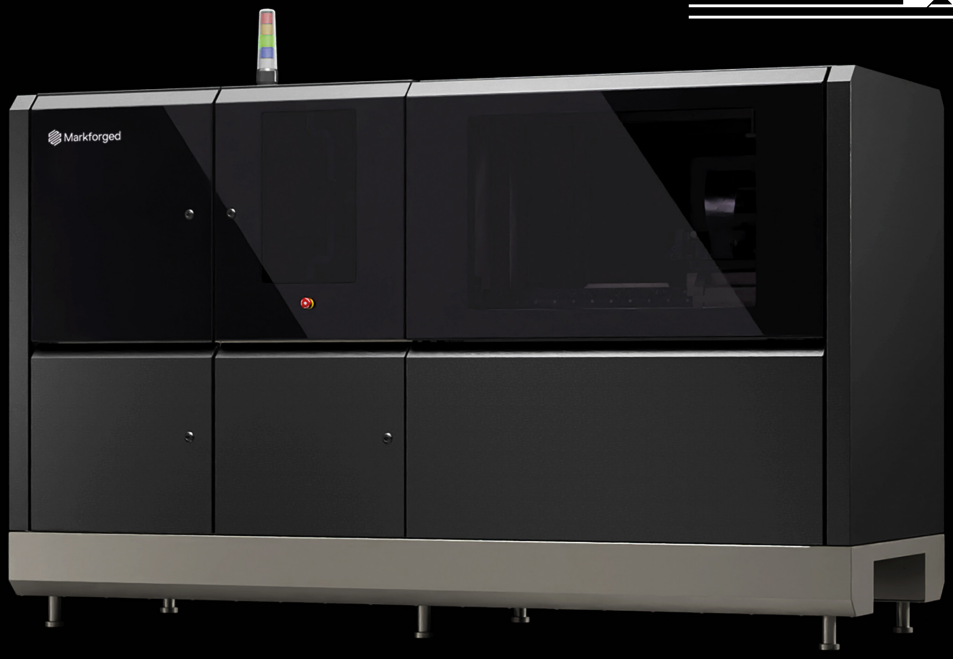
Markforged

ADDITIVE X

PX100

Additive Metal Production at Unmatched Precision.



The PX100 Binder Jetting system brings a new capability to the Digital Forge: a production system capable of fabricating thousands of complex end-use metal parts. It unlocks high-volume metal production at the point of need, enabling companies to exercise more control over their production process.

New Products, New Markets

Metal Binder Jetting enables manufacturers to become industry leaders by designing and fabricating previously un-makeable parts and unlocking part customization at scale.

Take Control of Your Supply Chain

Eliminate the risks and costs that come with 3rd party suppliers by insourcing critical production runs. Swap dependence for control.

Low-Waste Direct Manufacturing

Fabricate parts without tooling and fixtures and with minimal material waste, bringing products to market faster and cheaper.

Production Applications

The PX100 offers a cost competitive alternative to conventional manufacturing for small and complex designs in a variety of industries, including:

- → Luxury goods
- → Dental and medical
- → Hardware manufacturing
- → Academia
- → Personal electronics
- → Contract manufacturing

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System Details

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

PX100 Machine Specifications

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

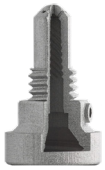
17-4PH Stainless Steel

316L Stainless Steel

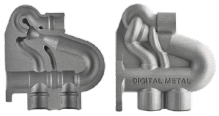
4140 Steel

H13 Tool Steel

D2 Tool Steel



Alloy 247



Alloy 625

Alloy 718

Copper

Ti6Al4V

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