Markforged

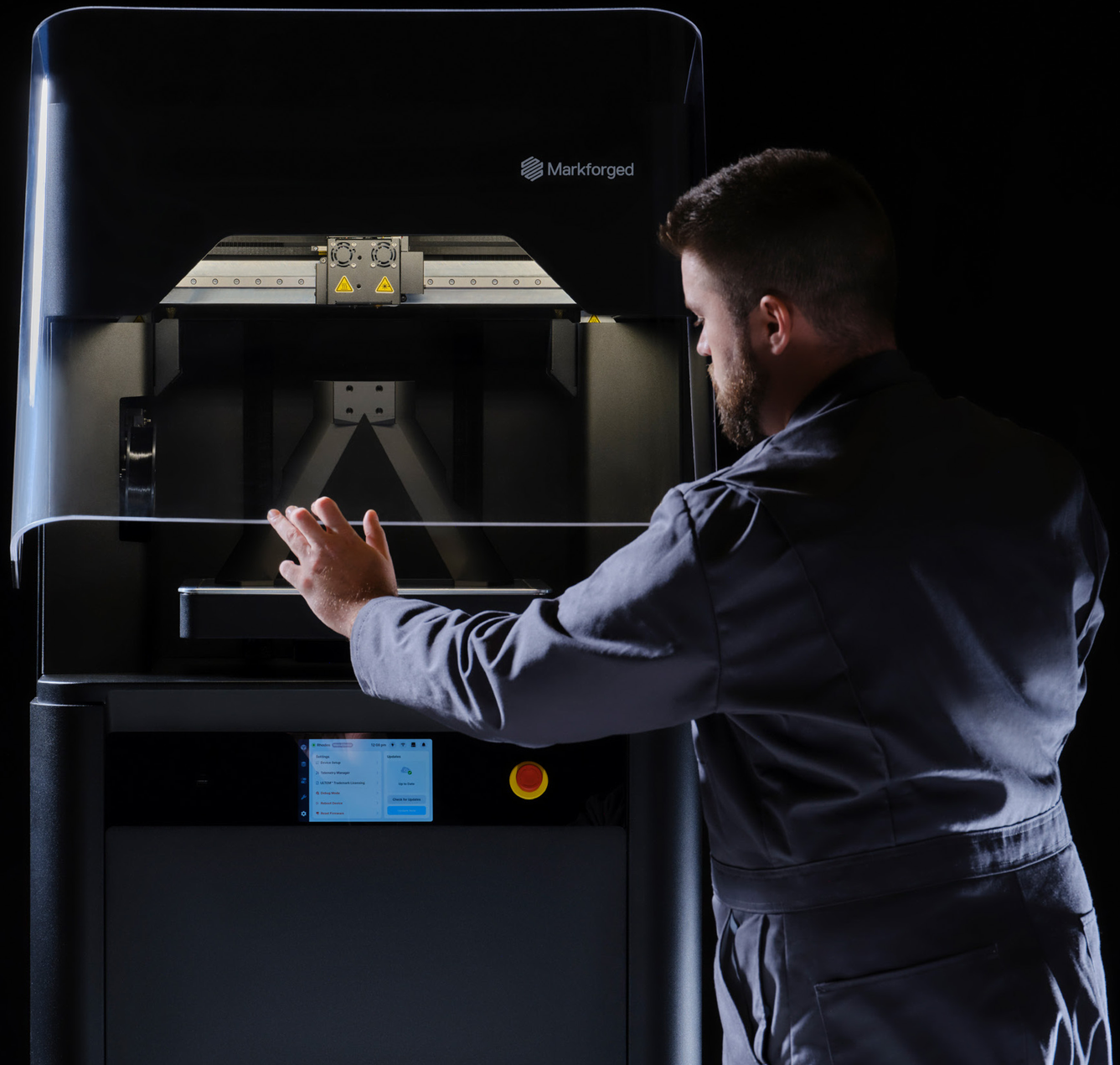
FX10™

The most versatile tool for your factory floor.

Introducing the Markforged FX10

FX10 is Markforged's next generation industrial composite 3D printer — the result of years of engineering innovation and technological advancement. Built on the success of the Markforged X7, its sole purpose is to deliver strong, accurate parts every print.

FX10 features a new modular architecture that's designed for upgradability and printhead-mounted optical sensors that can verify dimensional accuracy of parts and assess device health and performance. It utilizes automatic calibration and material changeover, yielding a simple, low-touch user experience that mitigates the need for dedicated operators.



Unlock strong parts on demand

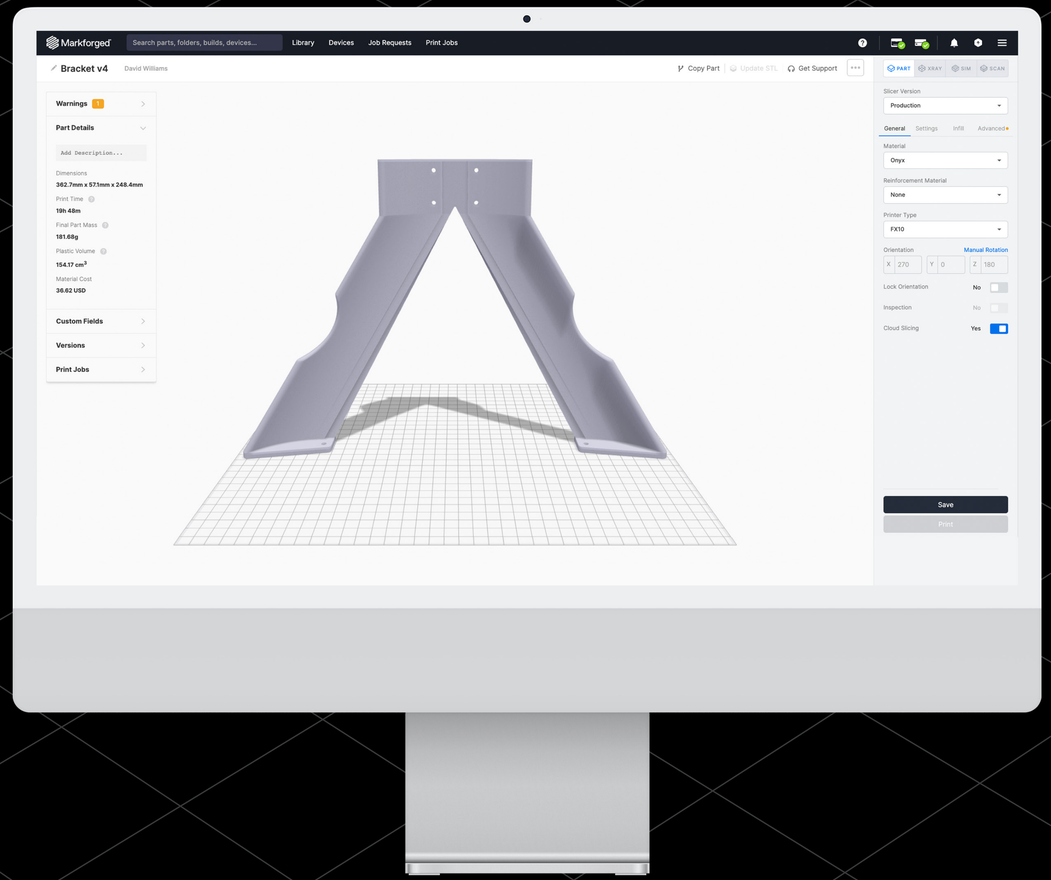
FX10 prints continuous carbon fiber reinforced parts for a wide range of factory floor applications — helping manufacturers increase speed to market, slash fabrication and inventory costs, and de-risk line down events.

Print the right part every time

We designed every aspect of FX10 — from its motion system to the software that powers it — around delivering accurate, strong parts reliably. Backed by Simulation and Inspection software, FX10 can produce verified parts that meet stringent factory floor requirements.

Drive ROI fast, then scale

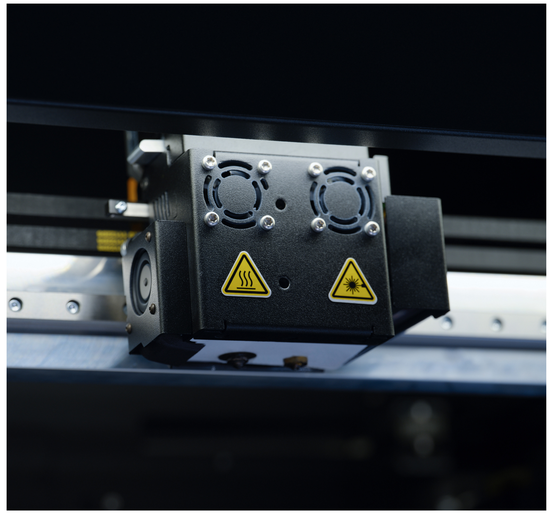
FX10 operates on the Digital Forge: Markforged's additive platform that features intuitive device and desktop software, training, and built-in cost calculation. You can start generating ROI on day one and effortlessly scale to more teams, machines, and facilities.



The Digital Forge: Powered by Software

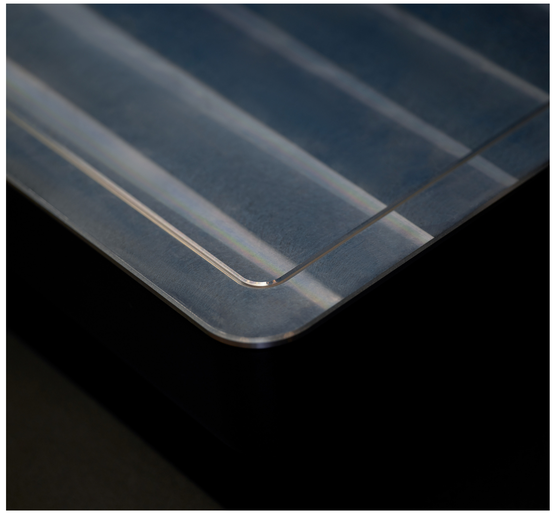
Markforged offers a simple, smart, scalable additive manufacturing platform designed to seamlessly fit into your manufacturing operation. Our software Eiger™ was built for scale delivering a single user-experience, digital part repository and fleet management across the entire Markforged portfolio, including the FX10.

FX10 Product Features



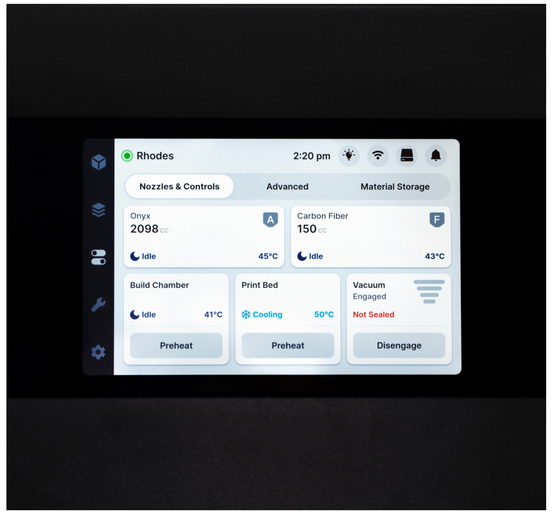
Vision Module and Laser Micrometer*

FX10 features two printhead mounted optical sensors. The laser micrometer powers Inspection — in-print dimensional validation — and machine calibration while the new Vision Module will capture detailed images of calibration parts to determine and optimize printer performance.



Heated build chamber and vacuum bed

The FX10 has a large chamber that heats to 60 °C, useful for printing high-quality parts at high speed. The aluminum vacuum bed is also heated and utiliszes precision-machine grooves that are scanned by the laser micrometer for calibration.



Large touchscreen with intuitive interface

FX10 features a 7” touchscreen. Users can start builds, monitor machine status, manually control the machine, and start automated calibration routines all in one place.

Advanced material storage with automatic changeover

An inboard material cabinet stores four spools in individually sealed compartments and supports auto material changeover and fast spool loading, reducing user intervention.

*Vision Module will not ship with first FX10 units, but will be sent as a free upgrade package soon after launch.

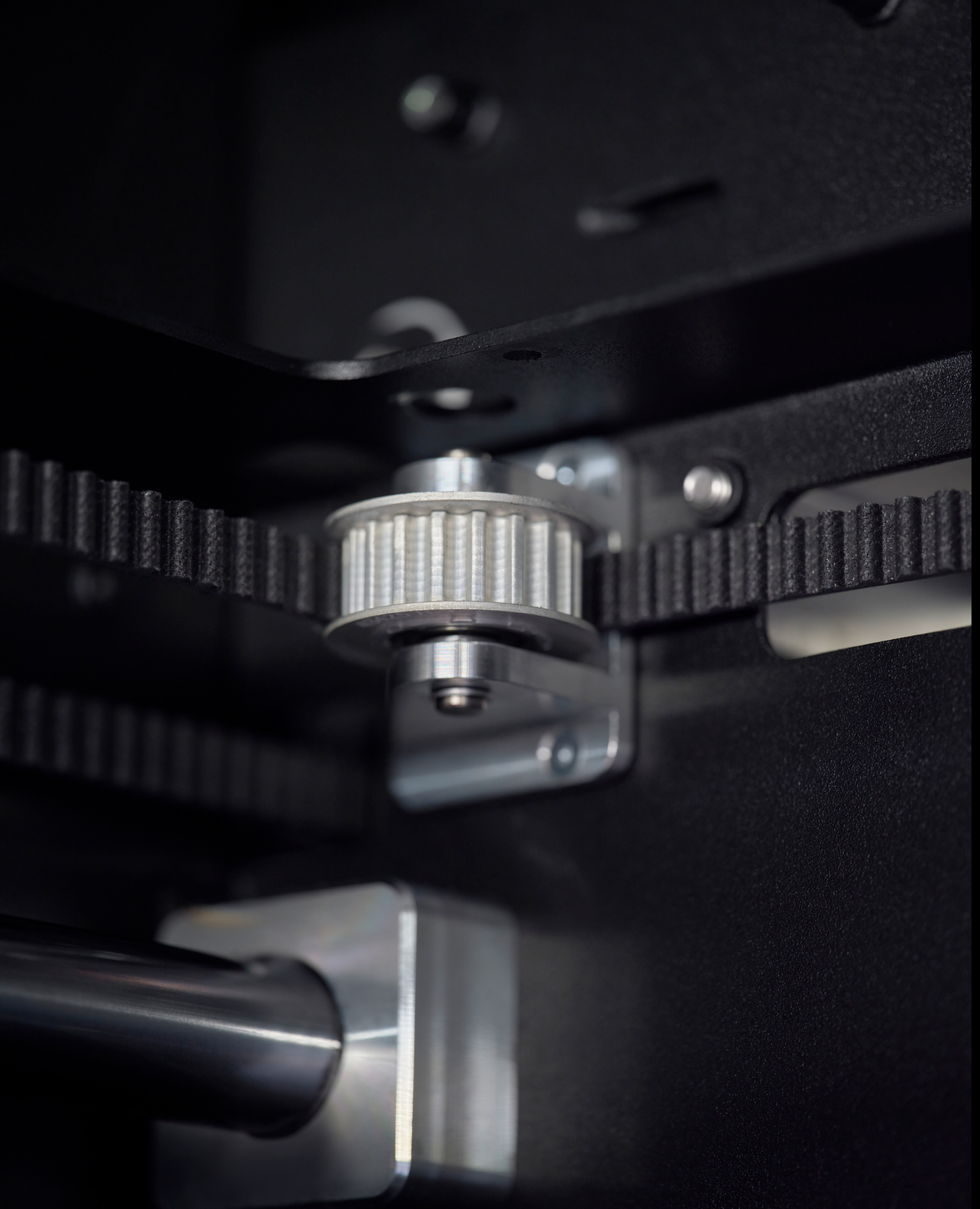
FX10 supercharges your manufacturing profitability and productivity by...

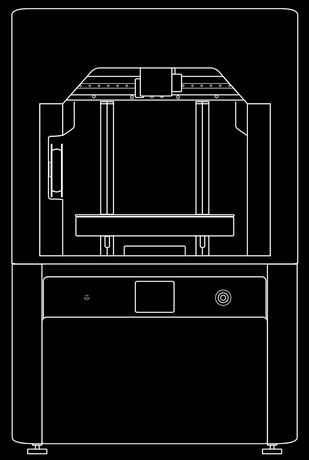
... slashing your part costs by up to 90% and lead times from months to days.

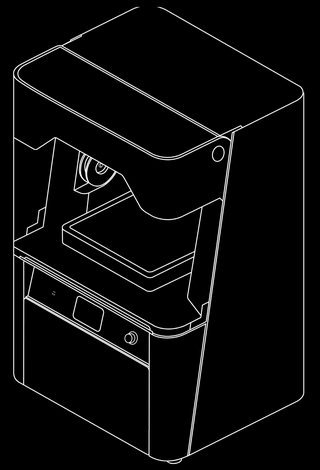
... enabling you to replace physical inventory with digital inventory.

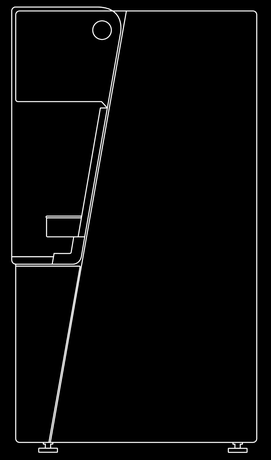
... boosting your production yields while decreasing operating costs.

... keeping your production lines running with on-demand spare parts.









Hardware

Build Volume	375mm x 300mm x 300mm (14.8 x 11.8 x 11.8 in)
Z Resolution Range	125 - 250 µm
Build Chamber	Heated up to 60 °C
Materials	Engineering Thermoplastics: Onyx™
	Continuous Fibers: Carbon Fiber
Power	100–120 / 200-240 VAC (12A / 6A), IEC 60320 type C20
Weight	109 kg (240 lb)
Footprint	760mm x 640mm x 1200mm (30in x 25in x 46in)

Support for other Markforged plastic and fiber materials will be added over time, although not every combination.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