



Markforged

Leading the Future of Distributed Manufacturing



Disclaimer

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Limitations of Traditional Manufacturing



01 Limited Design Flexibility

02 Difficulty for Manufacturers to Hire Skilled Workers¹

03 Inability to Effectively Respond to Supply Chain Disruption

04 20% of Every Dollar in Manufacturing is Wasted (10% of Global GDP)²

(1) United States Census Bureau "Connecticut Case Study: Attracting Skilled Manufacturing Workers a Challenge as Aging Baby Boomers Retire" – November 17, 2020.

(2) "Manufacturing Wastes 10% of the GWP Every Year. Here's Why" Forbes article – October 18, 2019.



The Future is More Than Metal

Manufacturers invest in solutions that are stronger, lighter, faster, and less wasteful



The BMW i3 features a full carbon-fiber reinforced frame.

The EU Institute of Innovation & Technology states lightweight composite materials are the key to the next generation of electric vehicles.¹



50%

The Boeing 787 Dreamliner airframe is nearly 50% carbon fiber reinforced plastic and other advanced composites.²

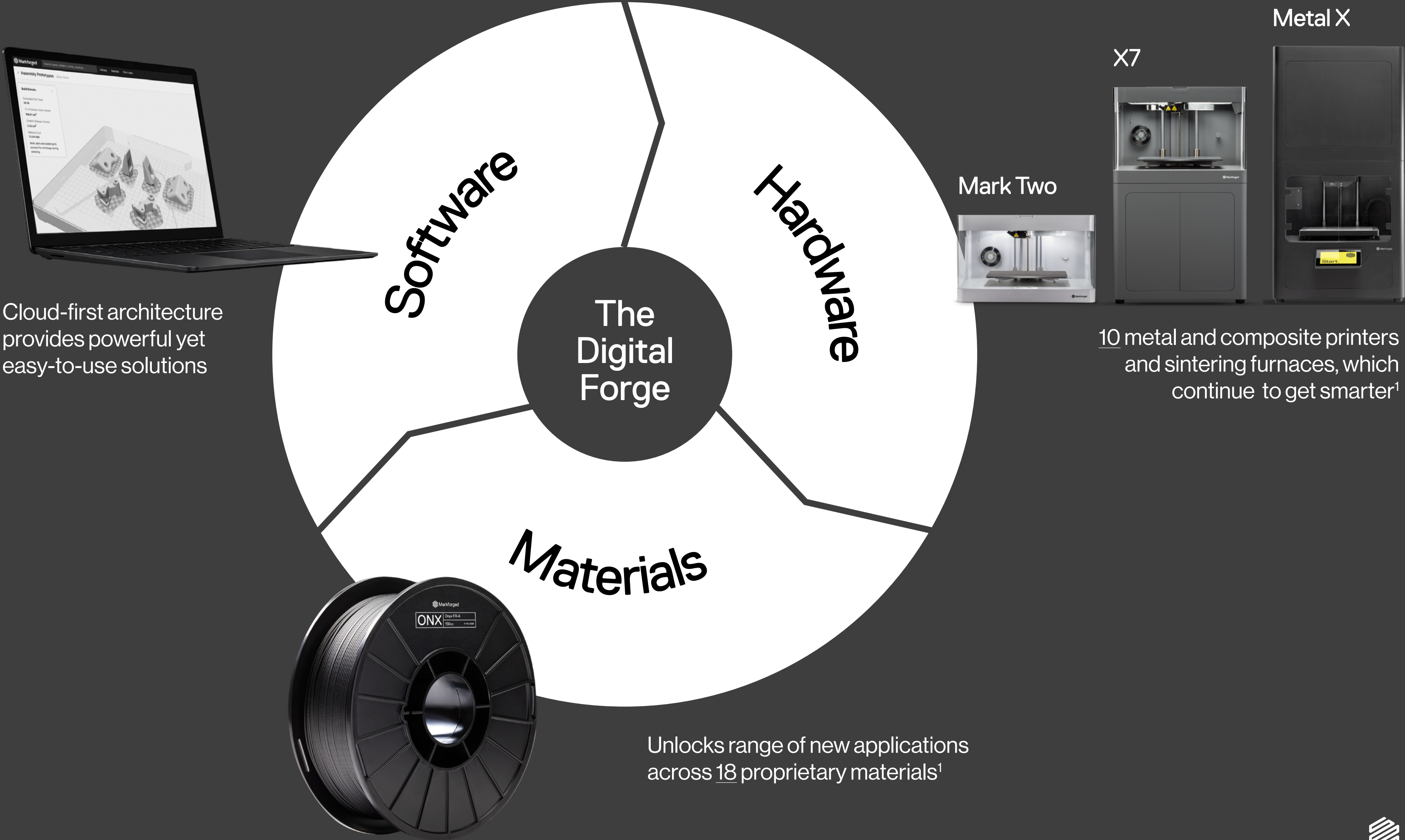
(1) <https://eit.europa.eu/news-events/news/lightweight-composite-materials-key-next-generation-electric-vehicles>

(2) https://www.boeing.com/commercial/aeromagazine/articles/qtr_4_06/article_04_2.html



We are Building Distributed Digital Factories

The Digital Forge is a software-powered platform that enables customers to print mission critical end-use composite and metal parts on-demand

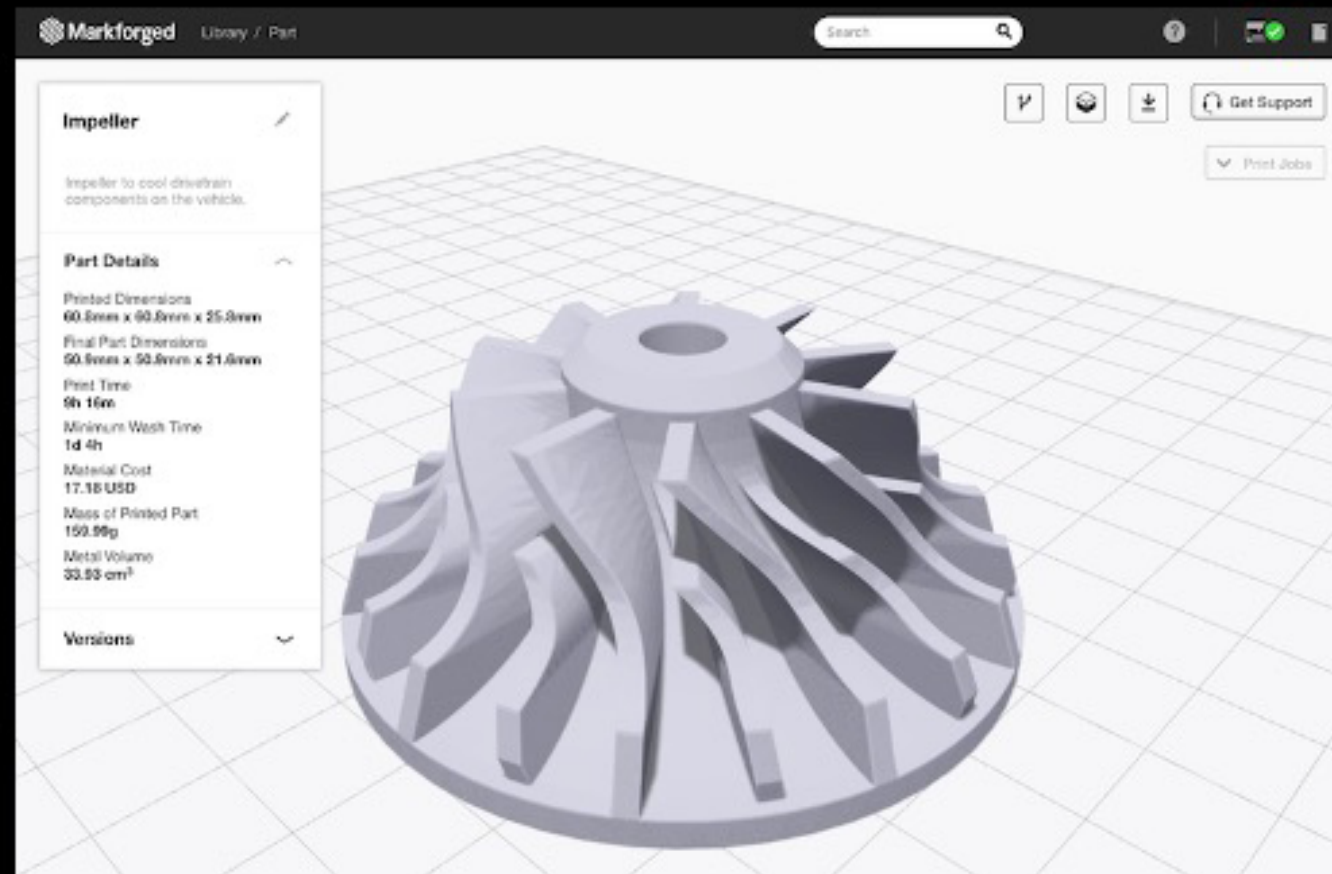


(1) As of November 2021.



Cloud Software Powers the Digital Forge

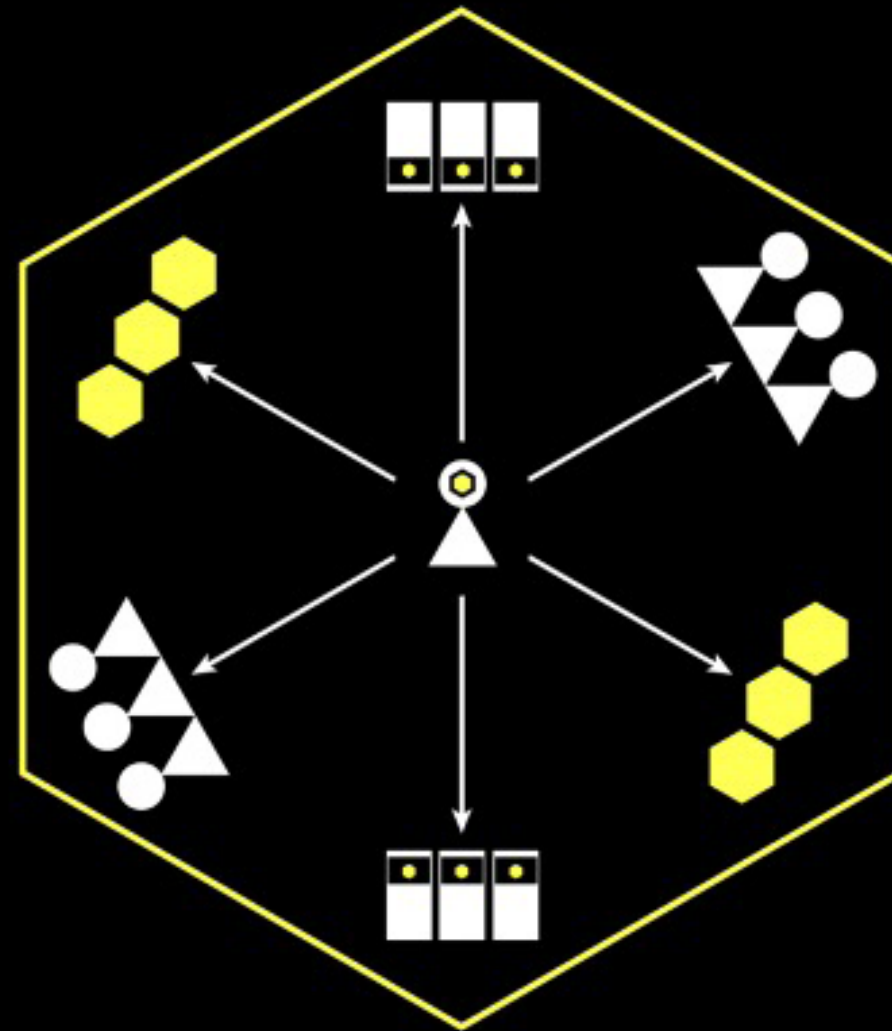
Included with Printer



Core Eiger

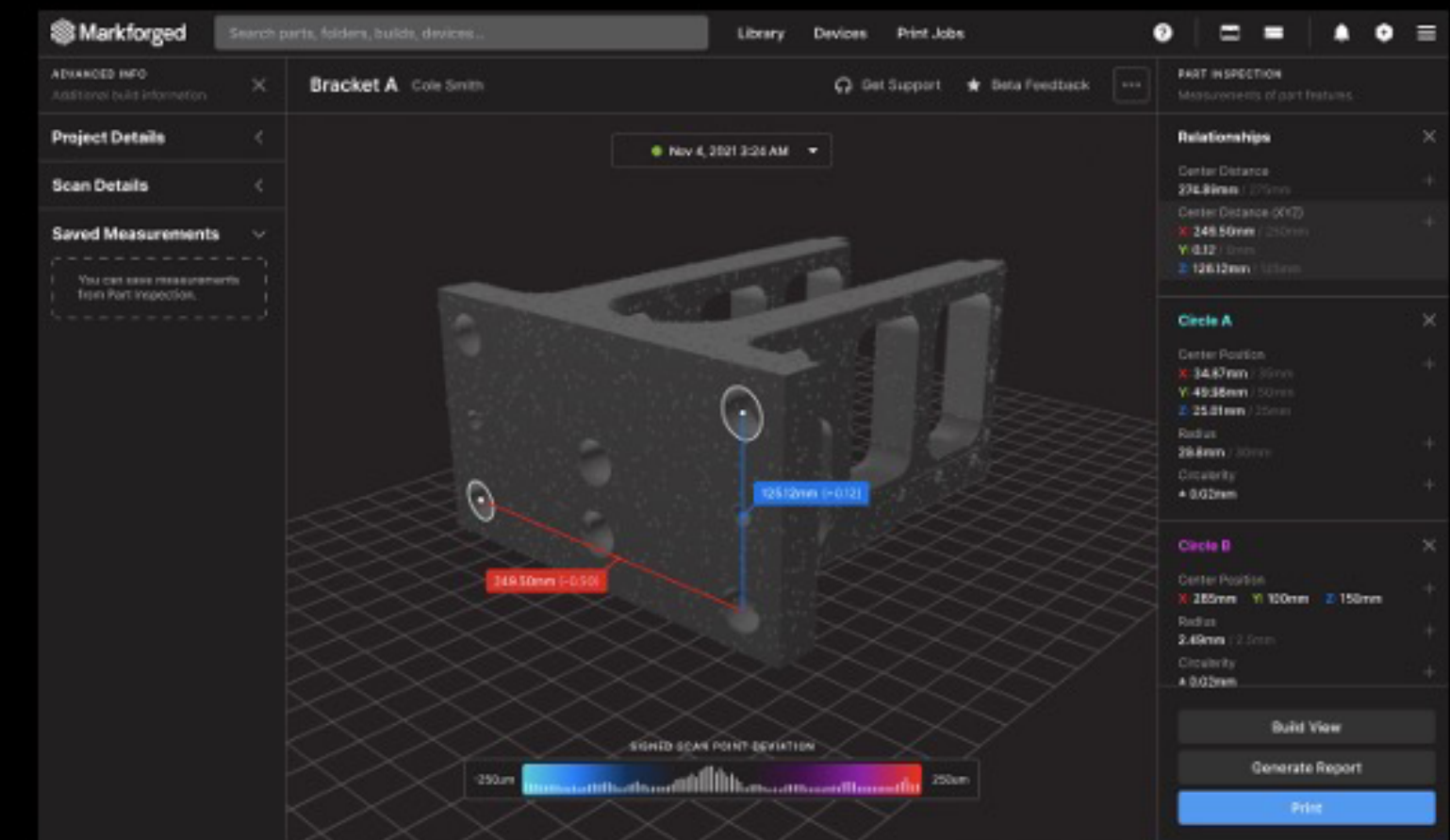
Eiger fully integrates with all Markforged 3D printers, enabling you to create builds, print parts, and monitor prints in a seamless workflow.

SaaS Subscriptions



Eiger Fleet

Designed to scale your additive manufacturing operations through centralized control over printers, users, parts, and workflows.

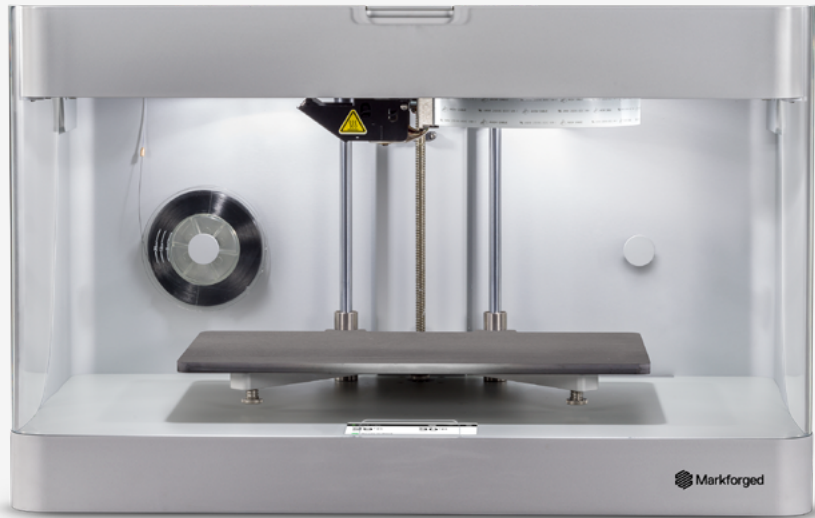


Blacksmith

The autopilot for digital manufacturing processes that connects part design, production, and inspection with powerful AI.



Our Scale Advantage; Fueling Our Flywheel



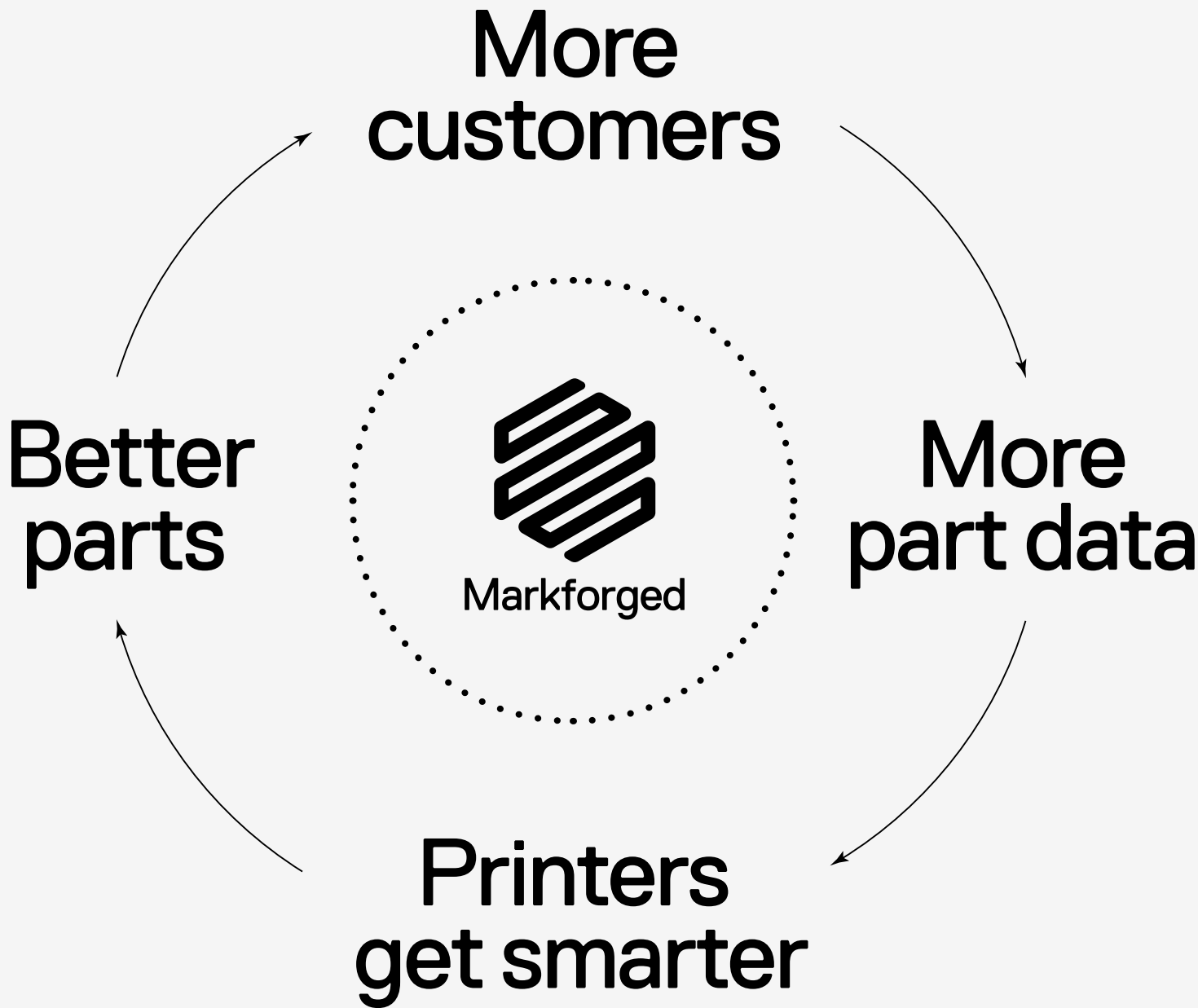
Grow expertise at the speed of global production

New printers are added to network to scale manufacturing capacity



Consistent Improvement

Federated fleet learning combined with real-time part corrections create a reliable and repeatable production process

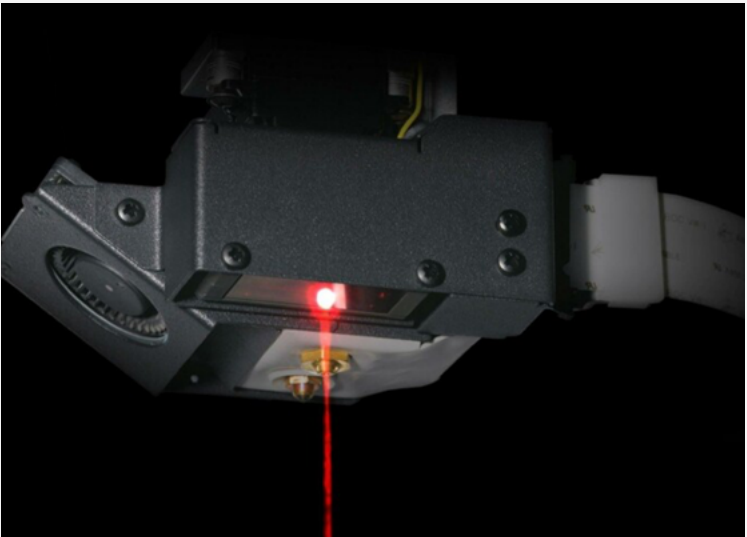


Part prep and fleet management

Devices are constantly streaming back data on parts and performance

Learning across the fleet through machine learning and over-the-air updates. Recent software updates have provided:

- Increased Print Speed by 2x
- Reduced Sintering Run Time by 42%
- Increased Print Volume by 15%



Part scanning + Industrial IOT

Drives AI-powered part quality improvements across entire fleet



Patented Continuous Fiber Reinforcement Technology Leads Customers to Replace Metal with Our Solution

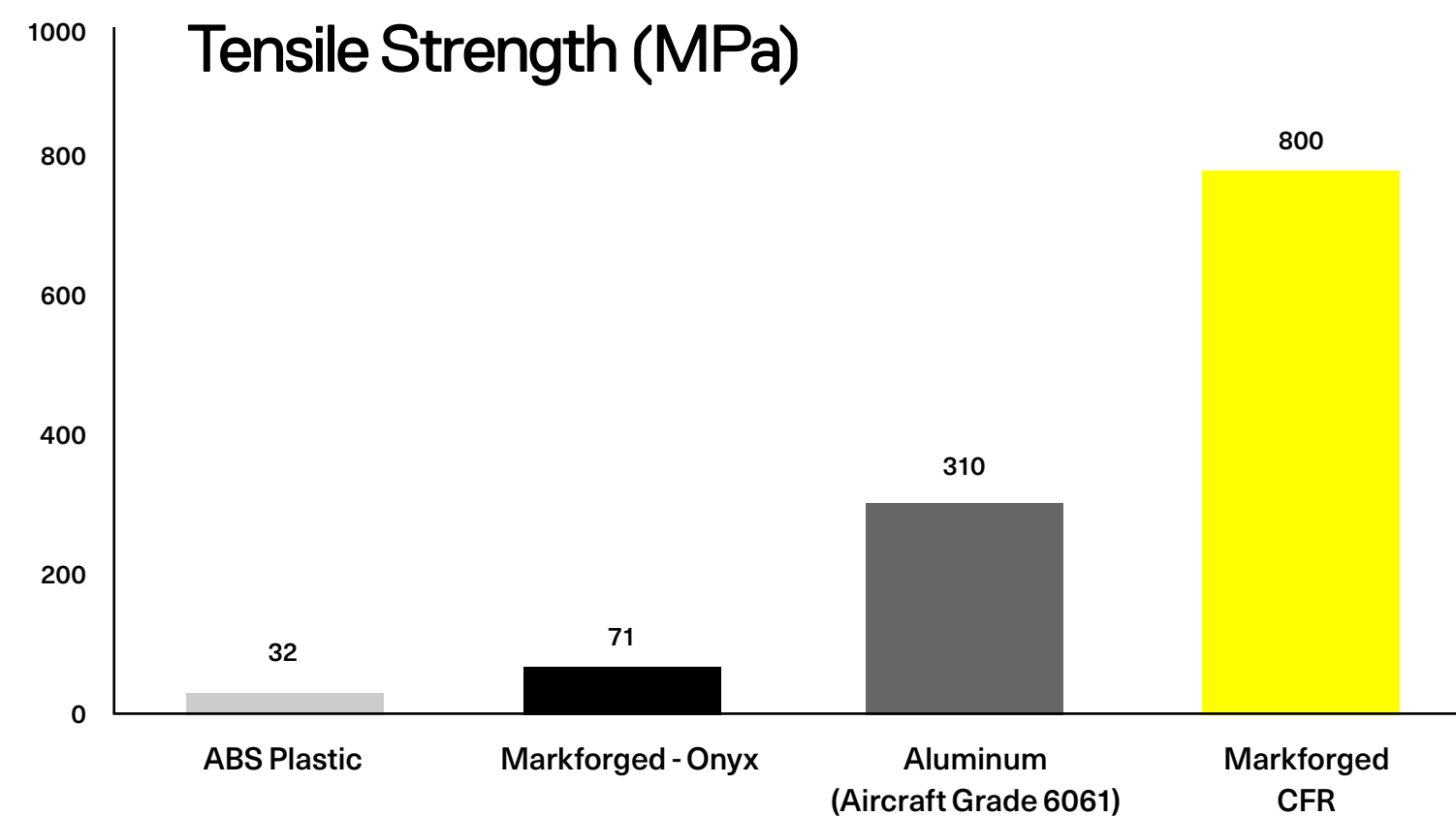
Markforged proprietary additive manufacturing process
— Continuous Fiber Reinforcement (CFR)

Adds continuous strands of fiber material to a part to achieve metal-strength properties at fraction of the weight.

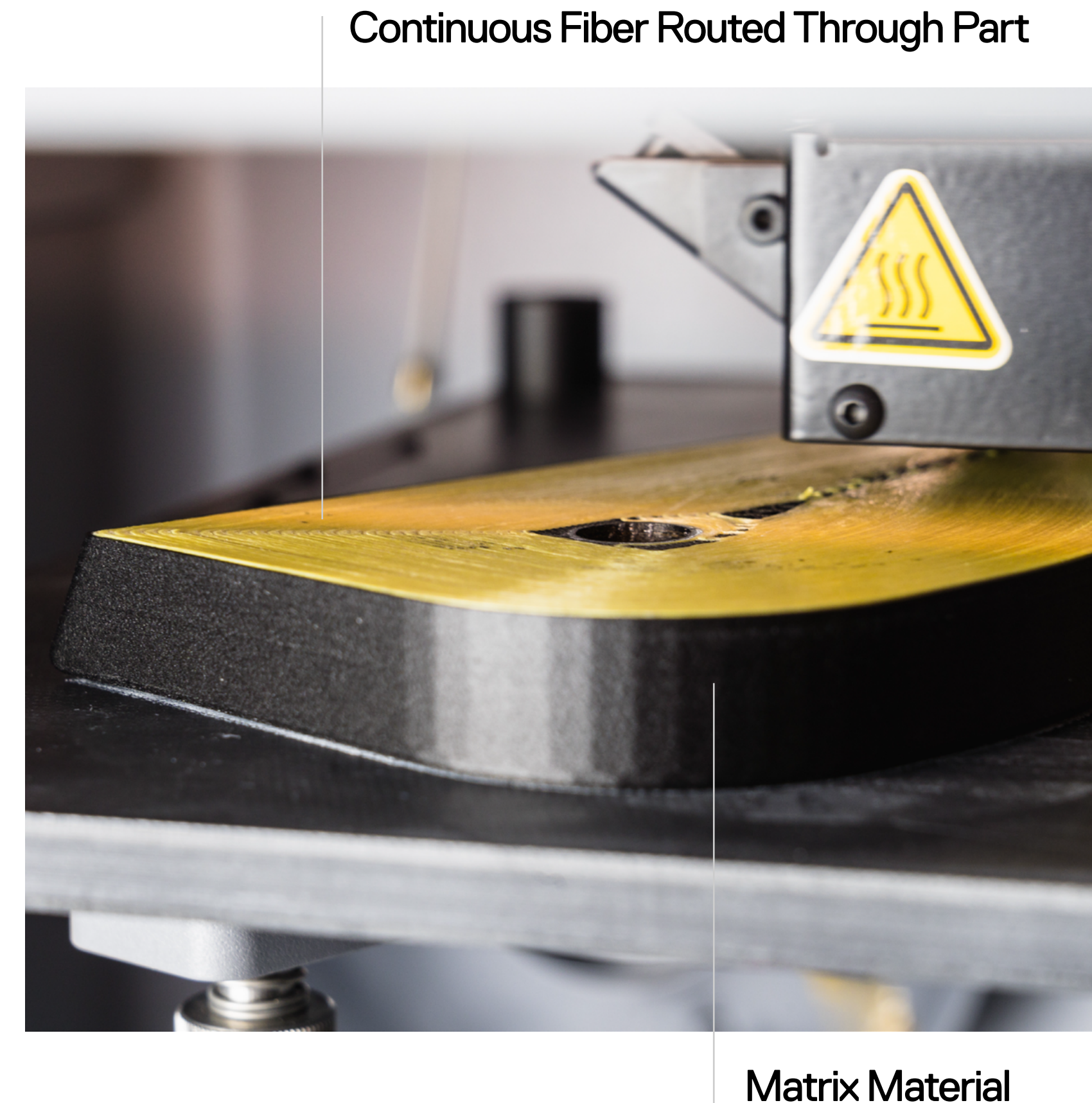
Process allows for flexibility of fiber type and location of fiber layers to achieve maximum control over part behavior.

The power of CFR comes from the continuity of the strands. Our patented CFR strands can absorb and distribute loads across their entire length.

CFR is 11x stronger than Onyx and 25x stronger than ABS plastic

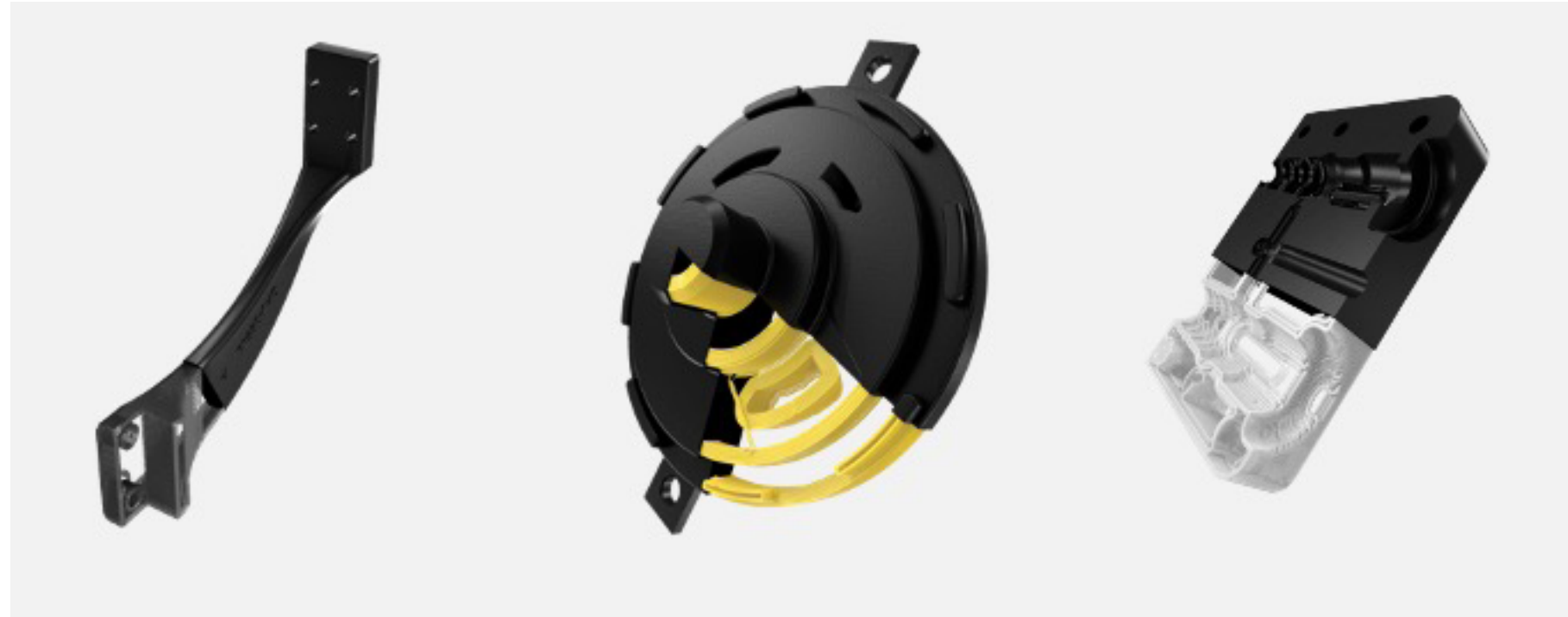


(1) Markforged internal test results as of December 2020.



Wide Range of Proprietary Materials Unlocks Broad Set of Applications

Composites

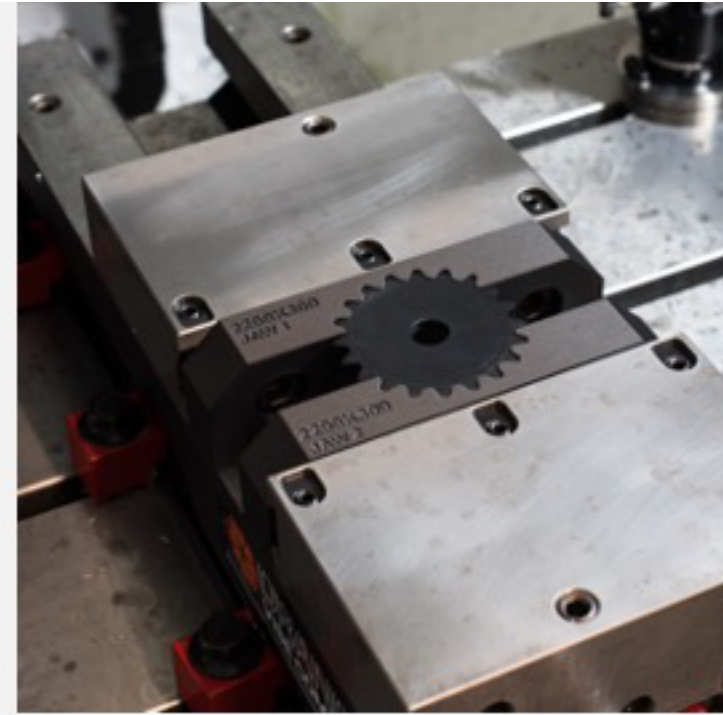


Carbon Fibers

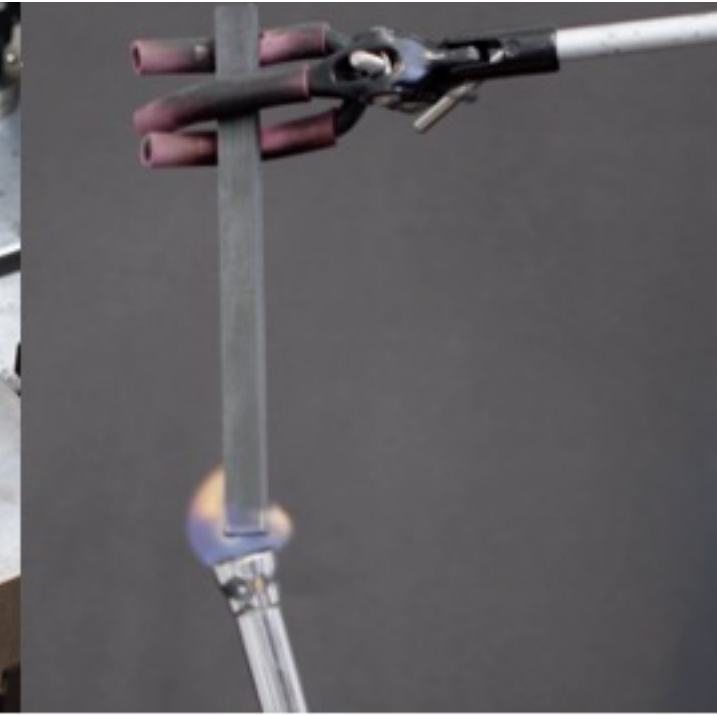
Aramid Fiber (Kevlar®)

Fiberglass

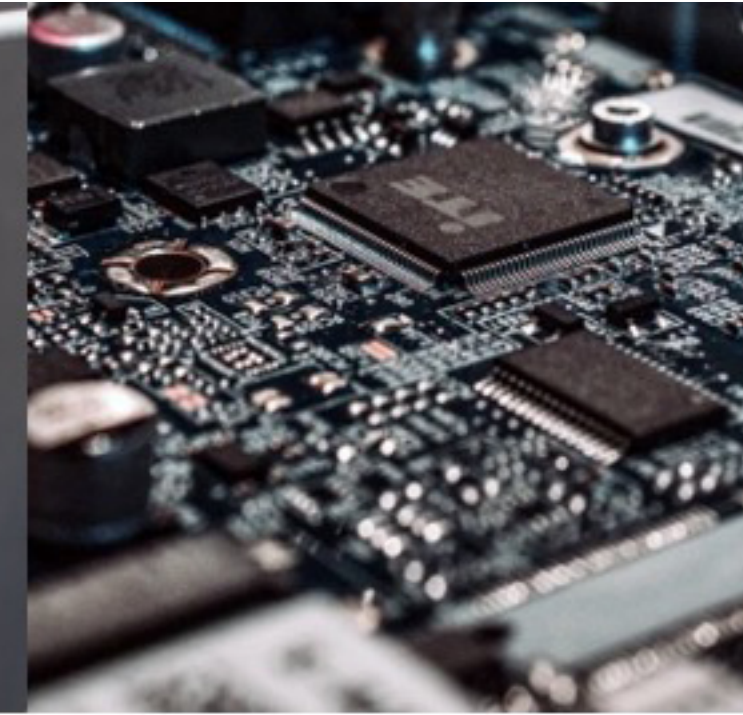
Dupont™ and Kevlar® are trademarks and registered trademarks of E. I. du Pont de Nemours and Company.



Onyx



Onyx FR (for Aerospace)



Onyx ESD (for Electronics)



ULTEM™ 9085 Filament

Ultra high performance PEI thermoplastic

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Metals

Continuous Fiber



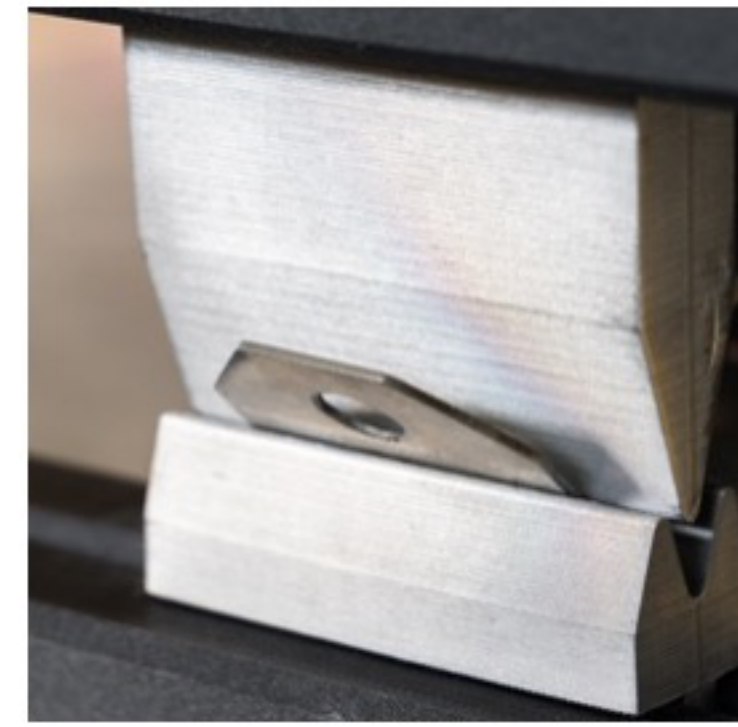
17-4PH Stainless Steel



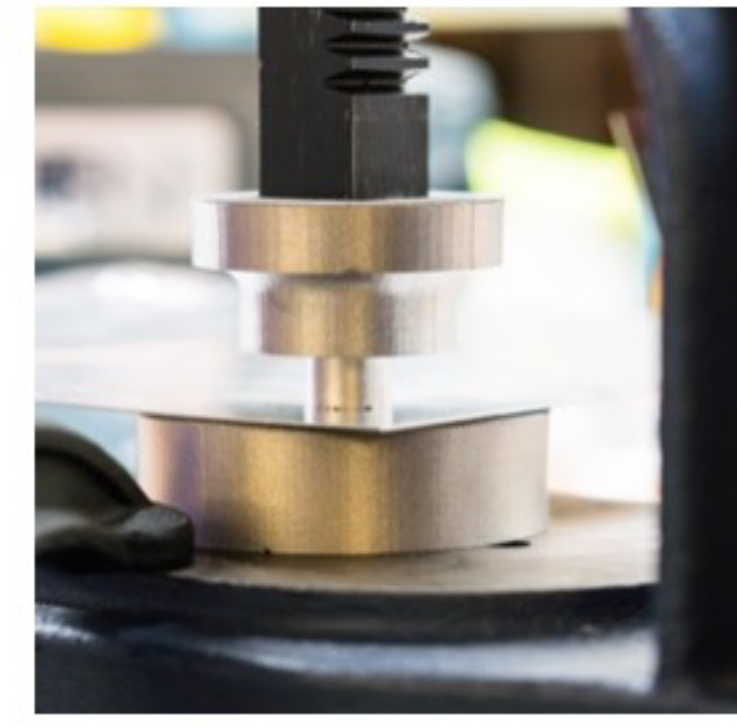
Inconel 625



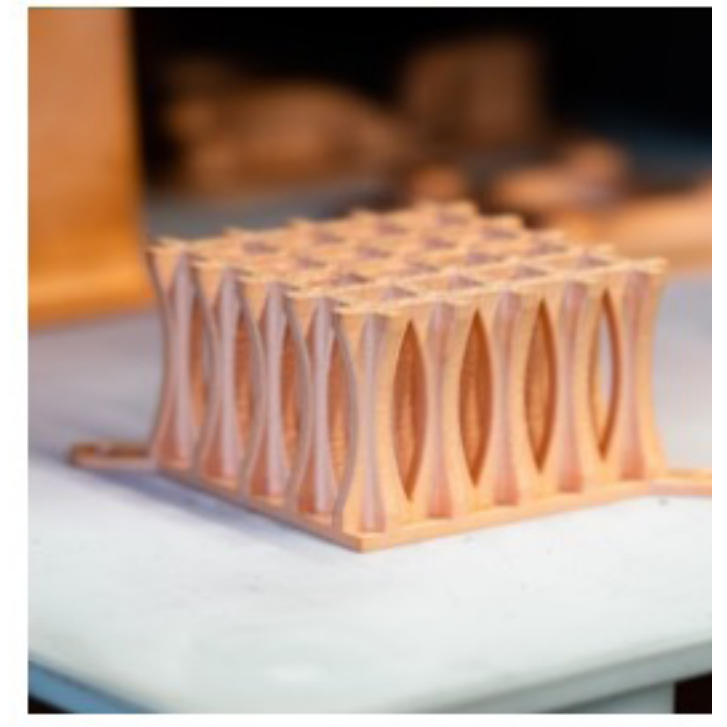
H13 Tool Steel



D2 Tool Steel



A2 Tool Steel

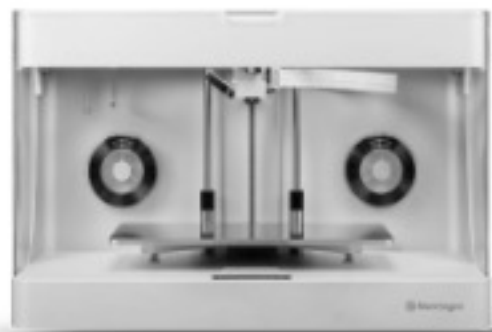


Copper

Chopped Fiber



Proven Broad Portfolio of Printers for Manufacturing



Mark Two

Powerful professional Continuous Fiber Reinforcement 3D printers for aluminum strength parts

Shipping since 2016



X7

Standout industrial Continuous Fiber Reinforcement 3D printer for manufacturing

Shipping since 2016



FX20

The FX20 is the largest and most precise Continuous Fiber machine Markforged has ever produced, opening up high-temp materials

Anticipated shipping 2022



Metal X

Accessible end to end metal 3D printing solution for functional metal parts

Shipping since 2018



Sinter-2

Automating the most complex step in metal printing with the touch of a button

Shipping since 2019





FX20

The FX20 is the biggest, fastest and smartest printer Markforged has ever produced.

Adds support for ULTEM™ 9085 filament with continuous fiber reinforcement for high-performance applications in Aerospace, Defense, Automotive and Oil & Gas.

Anticipated shipping 2022

The ULTEM™ and 9085 trademarks are used under license from SABIC, its affiliates or subsidiaries.



Accessible, Industrial-Grade Solution. Today

Upgrading metal with advanced composites

Wide range of proprietary composite and metal materials address broad range of applications

High and tangible customer ROI

Mission-critical application for blue-chip customers with evidenced land-and-expand

Integrated, modern software platform

Continuous software updates drive faster innovation and deployment

Scale today drives virtuous cycle

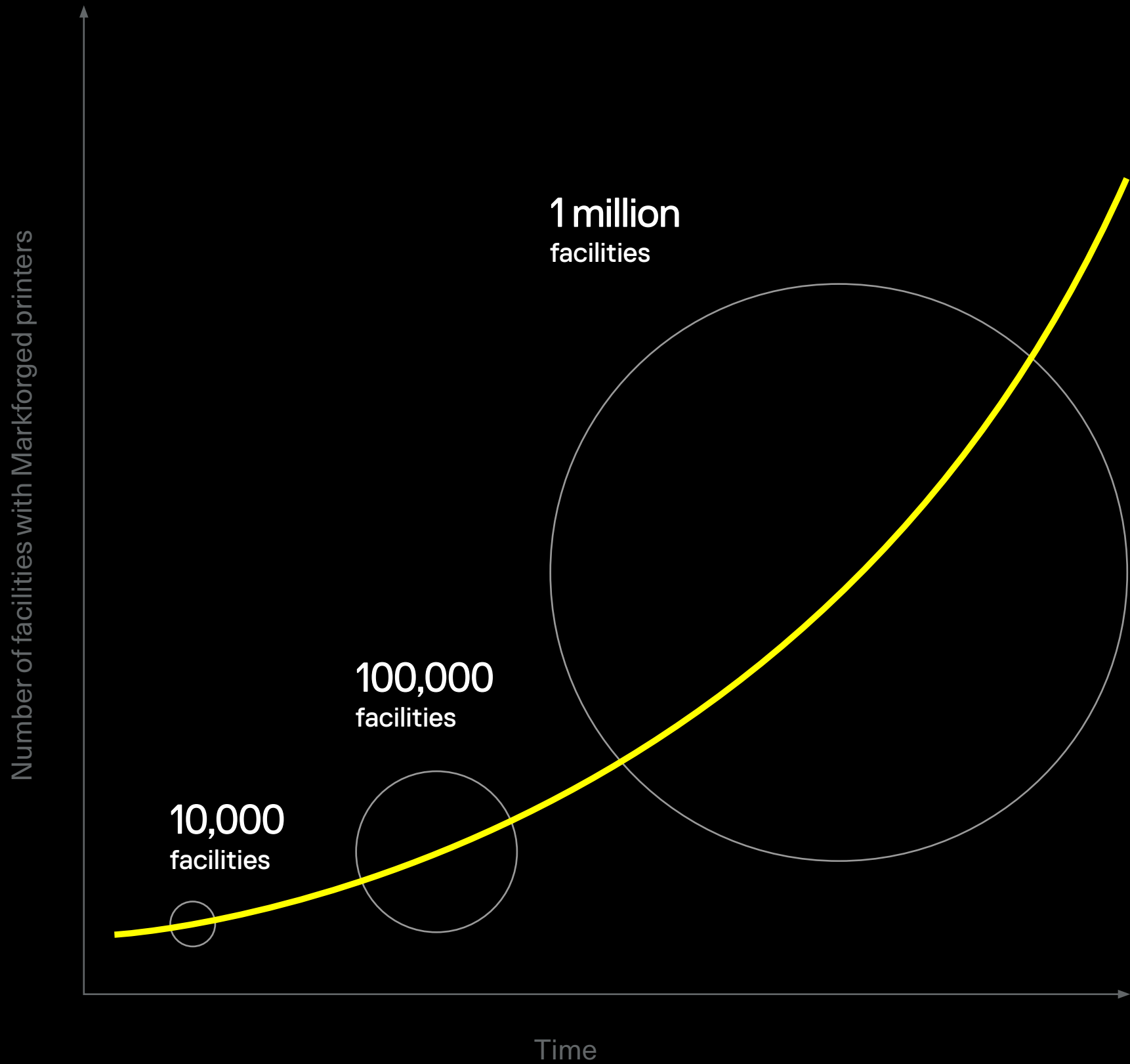
More customers >
More part data > Printers get smarter > Better parts



Executing on the Company's Growth Strategy

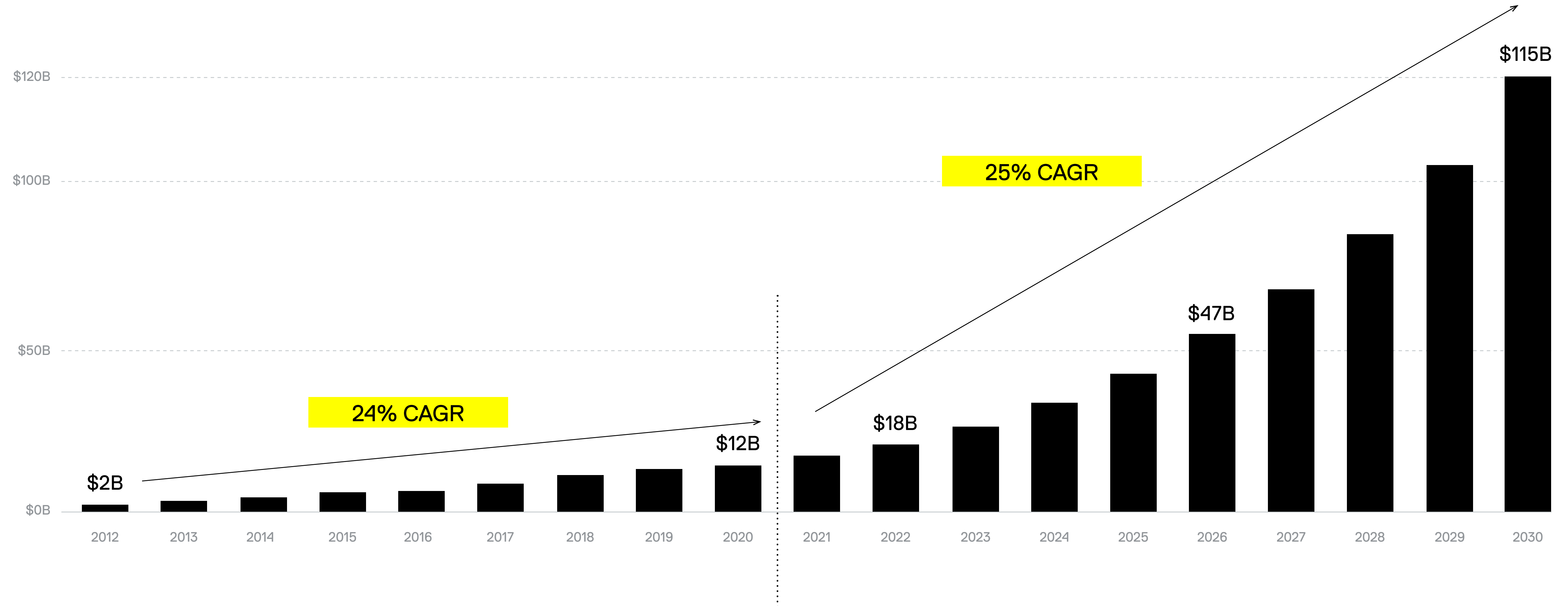
Accelerated product innovation	01	Powered by software (Blacksmith + Eiger)
	02	Continue to expand customer use cases
Operational expertise	03	Deeper and more efficient go-to-market coverage
	04	Building the brand
M&A	05	Accelerating growth strategy

Markforged is in an Estimated 10,000 Facilities Today and Plans to be in 100,000 in 5 years



Large & Growing Addressable Market Opportunity

Additive Manufacturing Industry Expected to Grow \$100B+ by 2030

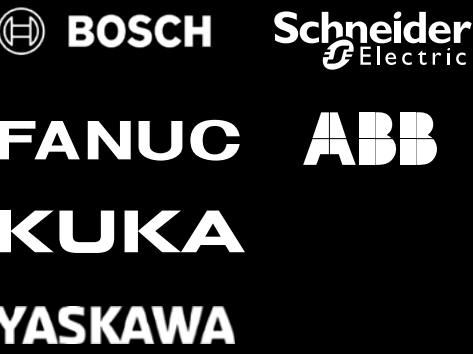


Blue-Chip Customer-Base Across Key Verticals



Industrial Automation

Replacing traditional infrastructure.



Aerospace

Flying on business jets and military aircraft.



Military & Defense

Supporting troops in combat zones.



Space Exploration

Orbiting on the International Space Station.



Automotive

Enabling vehicle production.



Healthcare & Medical

Protecting lives with critical medical equipment.



Note: Select customers included. Not inclusive of entire customer base. Use of logos does not imply endorsement.



Markforged Delivers Successful Outcomes



22 Printers

\$1.5 investment with Markforged to date.
9 Manufacturing & 2
Field Service & Support
Locations across 9
Countries, 4 Continents.

Enterprise-wide, Global
DDM (Direct Digital
Manufacturing) solution
for producing Calibrated
Tooling and MRO, to
reduce cost of product
quality and supply chain
risk, and improve time to
market.

Collaborative partnership
to implement a unified
end-to-end solution with
integration of Eiger Fleet
and Blacksmith with
Vestas EAM systems for
compliance, part quality
monitoring, reporting &
analytics.

Ongoing collaboration
and partnership through
BETAs for Eiger Fleet,
Metal X Blacksmith, FX20,
Materials, etc.

Future Plans

Potential scope for
additional 60–80
printers across 30+ more
worldwide facilities and
field support.

Key Application

Calibrated Gauge Tooling



Experienced & Visionary Management Team to Drive Us Forward

Leadership



Shai Terem

President & CEO

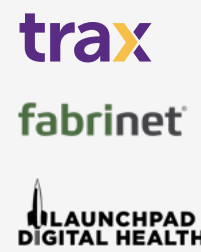


Morgan Stanley



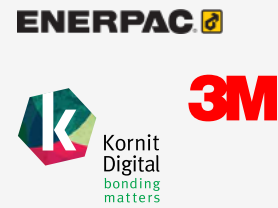
Mark Schwartz

Chief Financial Officer



Dorit Liberman

Chief Human Resources Officer



Ken Clayton

SVP, Global Sales



David Benhaim

Co-Founder & CTO



John Howard

VP, Engineering



Stephen Karp

General Counsel



Assaf Zipori

VP, Corporate Development and Strategy



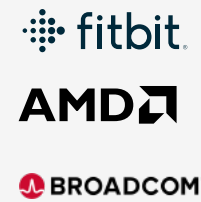
Matt Gannon

VP, Operations



Daniel Eiref

Senior Director Product Management



Michael Papish

VP, Marketing



Ved Nararyan

VP Sales, APAC



Brian Houle

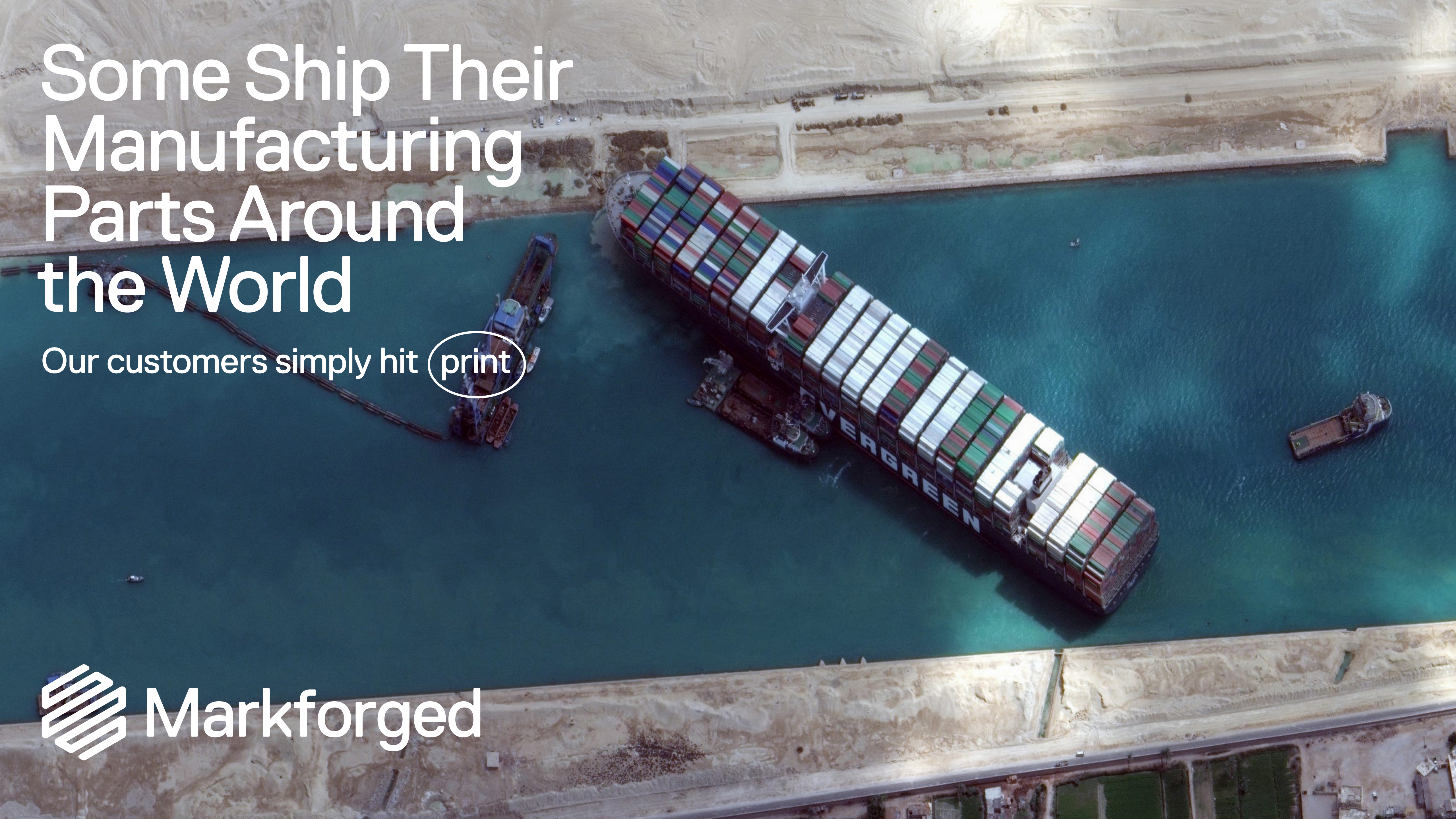
VP Sales, EMEA



Rustin Dring

VP, Americas





Some Ship Their Manufacturing Parts Around the World

Our customers simply hit **print**

 Markforged