

Markforged Takes the Guesswork out of 3D Printing for Industrial Applications With New Simulation Software

Virtual testing validates the strength of advanced composite parts and automatically optimizes print parameters to help lower cost and speed production

FRANKFURT AM MAIN, Germany--(BUSINESS WIRE)-- Today at Formnext, [Markforged](#) (NYSE: MKFG), the company strengthening manufacturing resiliency by enabling industrial production at the point of need, announced the release of new Simulation features for its additive manufacturing software. Simulation is available as a free trial until April 2023, and the company expects to make the feature accessible through a paid subscription thereafter.

Incorporating 3D printing into tooling and end-use applications requires confidence in part strength. By replacing slow and costly design/print/break testing cycles with virtual testing, Simulation can enable manufacturers to expand their use of additive manufacturing into the most demanding production applications.

Larsen Motorsports builds jet engine drag racing vehicles that hurtle past 280mph. But, stock aluminum steering wheels are shaped for much larger hands than those of rookie House of Kolor sponsored dragster driver, Josette Roach, putting safety and performance at risk. Larsen Motorsports used Simulation to design and print a Continuous Carbon Fiber reinforced Onyx™ steering wheel strong enough to replace aluminum. "We can now test it with Simulation, iterate and keep iterating until we get a design we're happy with," said Brian Tocci, Director of Operations, Larsen Motorsports. "We don't have to print ten different parts. We can do it all in Simulation."

Unlike traditional software tools that need specialized expertise and time-consuming analysis, Simulation is designed for additive manufacturing and works within the familiar Eiger™ software slice and print workflow. Any user can validate part strength and stiffness through virtual testing by identifying anchor and load surfaces and then entering values for loads, factor of safety and maximum deflection. They can then optimize parts by automatically determining print settings for floors, walls, infill and fiber reinforcement to achieve print cost and speed goals while maintaining adequate strength.

"Simulation enables our customers to adopt The Digital Forge deeper into their manufacturing operations by replacing more mission critical tooling and end-use metal parts with validated and optimized 3D printed advanced composite parts with Continuous Fiber Reinforcement," said Shai Terem, President and CEO of Markforged. "Cloud-based software innovation like Simulation is core to our mission to bring industrial part production to the point of need."

Simulation is available worldwide today as a free trial for anyone with a Markforged Eiger

account. To sign up for an account, visit www.markforged.com. Markforged will present “How simulation, in-process monitoring and inspection will drive the future of additive manufacturing” at Formnext on Friday November 18th at 11:40 in Hall 12, Stand E38.

About Markforged

Markforged (NYSE:MKFG) is making manufacturing more resilient and flexible by bringing on-demand industrial production to the point of need. The Markforged Digital Forge – the reliable, intelligent and easy-to-use additive manufacturing platform – empowers any manufacturer to create robust end-use parts in both metal and composites anywhere and anytime. Over 10,000 customers across 70+ countries use The Digital Forge to overcome limitations of traditional manufacturing while strengthening their supply chains. Markforged is headquartered in Watertown, Mass., where it designs the hardware, software and materials that powers its platform. To learn more, visit www.markforged.com.

Special Note Regarding Forward-Looking Statements

This press release contains forward-looking statements that are based on beliefs and assumptions and on information currently available. In some cases, you can identify forward-looking statements by the following words: “may,” “will,” “could,” “would,” “should,” “expect,” “intend,” “plan,” “strategy,” “anticipate,” “believe,” “estimate,” “predict,” “project,” “potential,” “continue,” “ongoing,” “opportunity” or the negative of these terms or other comparable terminology, although not all forward-looking statements contain these words. These statements involve risks, uncertainties and other factors that may cause actual results, levels of activity, performance or achievements to be materially different from the information expressed or implied by these forward-looking statements. Although Markforged believes that it has a reasonable basis for each forward-looking statement contained in this press release, Markforged cautions you that these statements are based on a combination of facts and factors currently known by it and its projections of the future, about which it cannot be certain. Forward-looking statements in this press release include, but are not limited to, the rate and extent of adoption of our products, including, but not limited to, the Simulation functionality; and statements regarding the potential benefits to consumers of Markforged products including, but not limited to, the recently-announced Simulation functionality. Markforged cannot assure you that the forward-looking statements in this press release will prove to be accurate. These forward looking statements are subject to a number of risks and uncertainties, including, among others, general economic, political and business conditions; the ability of Markforged to maintain its listing on the New York Stock Exchange; the effect of COVID-19 on Markforged’s business and financial results; the outcome of any legal proceedings against Markforged; and those factors discussed under the header “Risk Factors” in Markforged’s most recent periodic and other filings with the SEC. Furthermore, if the forward-looking statements prove to be inaccurate, the inaccuracy may be material. In light of the significant uncertainties in these forward-looking statements, you should not regard these statements as a representation or warranty by us or any other person that Markforged will achieve its objectives and plans in any specified time frame, or at all. The forward-looking statements in this press release represent Markforged’s views as of the date of this press release. Markforged anticipates that subsequent events and developments will cause its views to change. However, while Markforged may elect to update these forward-looking statements at some point in the future, Markforged has no current intention of doing so except to the extent required by applicable law. You should, therefore, not rely on these

forward-looking statements as representing Markforged's views as of any date subsequent to the date of this press release.

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