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# Hermeus to Build World's Fastest Aircraft with Newly Acquired Velo3D Sapphire Printers

*Using Velo3D's End-to-end Metal Additive Manufacturing Solution, the Hypersonics Aerospace Company Will 3D Print Parts For its Mach 5 Chimera Engine and Quarterhorse Aircraft*

ATLANTA--(BUSINESS WIRE)-- [Velo3D](#), Inc. ([NYSE: VLD](#)), a leading metal additive manufacturing technology company for mission-critical parts, today announced [Hermeus](#), a company developing hypersonic aircraft for defense and commercial applications, has acquired an original Sapphire and a large-format Sapphire XC that is designed for high-volume production. The printers, both of which will be calibrated for Inconel 718, will be used to build parts for Hermeus' [Chimera engine](#) and [Quarterhorse aircraft](#).

"Metal additive manufacturing is a core component of our plan to vertically integrate production," said Glenn Case, CTO at Hermeus. "As we explore the capabilities of Velo3D's additive manufacturing technology, we'll be looking for ways to increase performance, consolidate components, reduce weight of our aircraft, and minimize external dependencies."

Hermeus was founded in 2018 to radically accelerate air travel with hypersonic aircraft. The company is an up-and-coming superstar in the aviation industry with more than \$130 million in funding, including a \$100 million Series B and contracts with the U.S. Air Force. It also has strong support from NASA and other U.S. government agencies, as well as funding from aerospace innovators like RTX Ventures, the venture capital group of Raytheon Technologies.

The Chimera engine is a turbine-based combined cycle engine that will power Hermeus' first aircraft, Quarterhorse, an autonomous aircraft designed to touch high Mach speeds and prove reusability. Quarterhorse's first flight is planned for 2023.

"Hypersonics is an extremely challenging subset of the aviation industry and at the speeds that Hermeus will achieve, temperature, vibration, and aerodynamics play major factors in the flight of the aircraft," said Benny Buller, Velo3D CEO and Founder. "There are not many teams with the deep experience in hypersonics, aviation, and space flight that Hermeus has, and we're truly honored to provide Sapphire printers to help them achieve their goals. I have no doubt that they will bring their vision to life and make hypersonic commercial flight a reality."

Velo3D's metal additive manufacturing technology has seen extensive adoption in the hypersonics and NewSpace industries due to its ability to build the complex, mission-critical parts engineers need without compromising design, quality, or performance. Customers can print existing designs without the need to design the parts for additive manufacturing or

obtain specialized training. The company's solution also helps teams iterate on designs more quickly and greatly simplify supply chains.

### **About Velo3D:**

Velo3D is a metal 3D printing technology company. 3D printing—also known as additive manufacturing (AM)—has a unique ability to improve the way high-value metal parts are built. However, legacy metal AM has been greatly limited in its capabilities since its invention almost 30 years ago. This has prevented the technology from being used to create the most valuable and impactful parts, restricting its use to specific niches where the limitations were acceptable.

Velo3D has overcome these limitations so engineers can design and print the parts they want. The company's solution unlocks a wide breadth of design freedom and enables customers in space exploration, aviation, power generation, energy, and semiconductor to innovate the future in their respective industries. Using Velo3D, these customers can now build mission-critical metal parts that were previously impossible to manufacture. The end-to-end solution includes the Flow print preparation software, the Sapphire family of printers, and the Assure quality control system—all of which are powered by Velo3D's Intelligent Fusion manufacturing process. The company delivered its first Sapphire system in 2018 and has been a strategic partner to innovators such as SpaceX, Honeywell, Honda, Chromalloy, and Lam Research. Velo3D has been named to Fast Company's prestigious annual list of [the World's Most Innovative Companies for 2021](#). For more information, please visit [Velo3D.com](http://Velo3D.com), or follow the company on [LinkedIn](#) or [Twitter](#).

### **Forward-Looking Statements**

This press release includes "forward-looking statements" within the meaning of the "safe harbor" provisions of the Private Securities Litigation Reform Act of 1996. The Company's actual results may differ from its expectations, estimates and projections and consequently, you should not rely on these forward-looking statements as predictions of future events. Words such as "expect", "estimate", "project", "budget", "forecast", "anticipate", "intend", "plan", "may", "will", "could", "should", "believes", "predicts", "potential", "continue", and similar expressions are intended to identify such forward-looking statements. These forward-looking statements include, without limitation, the Company's expectations, hopes, beliefs, intentions, or strategies for the future. These forward-looking statements involve significant risks and uncertainties that could cause the actual results to differ materially from the expected results. You should carefully consider the risks and uncertainties described in the documents filed by the Company from time to time with the SEC. These filings identify and address other important risks and uncertainties that could cause actual events and results to differ materially from those contained in the forward-looking statements. Most of these factors are outside the Company's control and are difficult to predict. The Company cautions not to place undue reliance upon any forward-looking statements, including projections, which speak only as of the date made. The Company does not undertake or accept any obligation to release publicly any updates or revisions to any forward-looking statements to reflect any change in its expectations or any change in events, conditions, or circumstances on which any such statement is based.

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