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VELO3D and Honeywell Aerospace Enter Partnership to Qualify VELO3D's Sapphire™ Metal 3D Printer for Production of Aircraft Components

CAMPBELL, Calif.--(BUSINESS WIRE)-- [VELO3D](#) and [Honeywell Aerospace](#), a leading user of Additive Manufacturing (AM) technologies with extensive knowledge across various platforms and applications, have announced a partnership to qualify VELO3D's Sapphire system as a viable manufacturing platform for 3D print production of aircraft components. The Sapphire system was selected for its unique capabilities for building highly complex geometries without the requirement of support structures. This enables customers to benefit from substantial time, cost and quality improvements.

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Sample additively manufactured parts demonstrate how VELO3D's unique metal printing process can produce geometries that were previously impossible; applications include aviation, oil & gas, aerospace and other industrial markets. (Photo: Business Wire)

The VELO3D Sapphire system will be in Honeywell Aerospace's Phoenix facility. The qualification process is underway and is focused on INCONEL, a nickel-based super alloy well suited for extreme temperatures. VELO3D will provide their expertise in developing suitable parameter sets for Honeywell Aerospace to complete material qualification utilizing

the Sapphire system to achieve optimal material properties. The qualification process is anticipated to be complete by the third quarter of this year.

"We are qualifying VELO3D's Sapphire system with the aim of printing geometries that can't be fabricated on existing 3D metal printers. Their technology will help Honeywell develop new production-part applications while also meeting our material requirements for qualification," said Dr. Sören Wiener, senior director of technology and advanced

operations for Honeywell Aerospace. “We intend to qualify this equipment through repeatability testing in our production environment, including build and post-processing, to generate an acceptable set of material property data and qualification of flight hardware.”

“The geometric enablement we are able to offer customers like Honeywell Aerospace allows them to print what used to be ‘impossible parts’ and, yet, do it with a strong business case of improved cost and better quality,” says Benny Buller, founder and CEO of VELO3D. “We are excited to partner with Honeywell to demonstrate that 3D metal printing is a viable production manufacturing method for a wider range of end-use applications.”

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