**Siemens Digital Industries Software Collaborates with GEFERTEC to advance Additive Manufacturing**

**NX software now supports operations for Wire Arc Additive Manufacturing (WAAM) printing technology. Collaboration strengthens the industrialization of AM technology through full integration of AM technology into the digital manufacturing landscape.**

Berlin, 22 July 2021 – Users of GEFERTEC production systems can run through the entire CAD/CAM process chain in Siemens’ NX software in future. As a multidimensional DED technology, WAAM (Wire-Arc-Additive Manufacturing) requires special functionalities and routines for path planning. As part of a development partnership between GEFERTEC and Siemens, the “Multi Axis Deposition” NX CAM module has been extended to handle WAAM operations for effective processing.

As a result, users benefit from a continuous digital process chain: from the component preparation via AM programming, CNC reworking through to quality control including fully integrated PLM, ERP- and MES functionalities.

“We are very pleased to be able to offer our customers and the market GEFERTEC WAAM-manufacturing systems with Siemens‘ software. We are convinced that this collaboration can not only make the potential of WAAM more easily accessible to industrial customers but can also enable faster exploration of the technical and commercial potential of the technology,” says Tobias Krümberg, CEO of GEFERTEC. Helmut Zeyn, Portfolio Development Additive Production at Siemens Digital Industries Software, adds: “WAAM is one of the more promising technologies for additive manufacturing so we are excited to collaborate with GEFERTEC, who is a leader in this area.”

The rugged inert gas welding process, high build up rates and easy handling of the wire as the raw material make the process interesting for the production of medium-sized to large components. In contrast to other AM processes, the focus of the WAAM technology is on cost reduction and high availability. Spare parts or components in job lots in industries such as oil & gas, maritime, mechanical and plant engineering, transportation and aerospace have already been successfully converted from conventional production to WAAM with substantial reductions in delivery times and costs. In addition, production is more resource-efficient due to significantly lower material consumption.

As one of the first joint partners of Siemens and GEFERTEC, Siemens Energy is benefiting from the continuous process chain in Siemens NX to produce components using WAAM and subsequent CNC reworking. The company already uses additive manufacturing technologies for its own products, but now also offers AM services for external customers. “The integration of WAAM in Siemens’ NX makes a significant contribution to making processes more efficient for us as users and thus enabling us to reduce throughput times in spare parts production, for example,” says Ole Geisen, Head of Engineering Services for Additive Manufacturing at Siemens Energy.

(2,644 characters including spaces)

**Images:**

**Image 1.** (GEFERTEC\_Tobias Krümberg\_Porträt.jpg)
Tobias Krümberg, CEO of GEFERTEC GmbH

**Image 2.** (GEFERTEC\_Siemens-NX\_Helmut Zeyn\_Siemens.jpg)
Helmut Zeyn, Portfolio Development Additive Production at Siemens Digital Industries Software

**Image 3**. (GEFERTEC\_Siemens-NX\_Ole Geisen\_Siemens.png)

Ole Geisen, Head of Engineering Services for Additive Manufacturing

Siemens Energy, Generation

**About GEFERTEC GmbH**

GEFERTEC offers complete production systems for 3D metal printing using the WAAM process. To achieve this, traditional gas-shielded metal-arc welding is combined with special process expertise for the additive assembly of components, a rugged machine system, integrative CAM - software, and process-related quality assurance. Since Gefertec was founded in 2015, Siemens has been at the side of the company. All machines are equipped with Sinumerik 840 D sl control systems as well as drive technology and HMI components from Siemens.

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