

## GEFERTEC supplies 3D Printer for Research Project in Aircraft Construction

Reducing costs while maintaining quality is a major issue in aircraft construction. Especially when using expensive materials like titanium there is a huge cost saving potential. Within the Regis project (see Info Box), which is partly funded by the German Federal Ministry of Economic Affairs and Energy, GEFERTEC, Airbus, and other partner companies are working on the application of additive manufacturing, to leverage these potential cost savings.

In order to reach this goal, Airbus together with its

partner BIAS (Bremer Institut für angewandte Strahltechnik) has recently put a new GEFER-TEC 3D printer into operation. The arc403 machine, installed at the BIAS research facility, has a working space of half a cubic metre. It is able to manufacture even larger parts at high production speed. The arc403 utilizes the 3DMP® method, which is based on well-proven electric arc welding, and therefore benefiting from wire as original material.

The near-net-shaped part is formed welding layer by welding layer. Immediately

after its 3D printing the part can be finished by conventional milling. The new additive manufacturing method is faster and more cost efficient than methods based on powder material. The new 3D printer has been supplied by GEFERTEC in the course of the Regis project, which is part of the German aircraft research program (LuFo). At the end of the research program in 2021 the new manufacturing method will be qualified for aircraft industry and can then be used in regular production.

German Federal Ministry

of Economic Affairs and Energy (BMWi) supports research and technology projects for civil aircraft industry in Germany in the framework of its “Luftfahrtforschungsprogramm“ (LuFo V). The funding measure is technologically oriented on the strategic research agenda (SRIA) of ACARE and the aerospace strategy of the Federal government. BMWi’s goal is the sustainable, economical, and efficient air transport system of the future.

*For more information  
Web: [www.gefertec.de](http://www.gefertec.de)*

## HMS Industrial Networks AB acquires German company Beck IPC GmbH

The base technology IPC@CHIP® is the core of Beck IPC’s product offering for industrial OEMs. With IPC@CHIP®, Beck offers a compact embedded programmable platform solution in the form factor of a chip. Tailormade for embedded IIoT applications, IPC@CHIP® can be used as a PLC, a communication controller or a combination of both, enabling OEMs to create IIoT solutions with reduced development efforts and fast time to market.

Beck IPC’s portfolio also includes the comprehensive com.tom® gateway series and the associated cloud portal. The com.tom® gateways form an extensive line of industri-

al networking and Edge gateways for IIoT applications, targeting factory and process automation. The cloud portal provides all elements needed to easily set up an industrial IoT application, where the com.tom® cloud broker manages all inbound and outbound data, including all configuration and security aspects.

“Beck IPC’s knowledge, hardware and software products for IIoT, especially within the embedded offering, are important building blocks to strengthen HMS’s strategy within IIoT,” says Staffan Dahlström, CEO of HMS Industrial Networks. “Beck IPC’s product and service portfolio complements

our existing Anybus®, IXXAT® and eWON® solutions, and strengthens our position as a leading supplier of communication solutions for industrial applications.

“We are excited to be joining HMS. Thanks to our complementing technologies we will together be able to offer some really attractive solutions within IIoT, and HMS’s worldwide sales organization will ensure a global market reach,” says Thomas Schu-



macher, Managing Director of Beck IPC GmbH. On the financial side, Beck IPC GmbH is expected to have net sales of EUR 6-7 million in 2018, which will add to HMS’s top line growth.

*For more information  
Web: [www.anybus.com](http://www.anybus.com)*