

## Press Release

Hanau, June 22, 2018

### **APWORKS and Heraeus are now working together on SAP's innovative Manufacturing Network platform for additive manufacturing**

**Heraeus is the new sales and cooperation partner to APWORKS for the high-strength aluminum alloy Scalmalloy®, developed specifically for 3D printing.**

SAP, APWORKS and Heraeus have joined forces. The companies recently announced their support of the innovative application known as SAP Distributed Manufacturing, a collaborative platform that uses new customer tools to accelerate the introduction of additive manufacturing into production and supply chains. APWORKS, a subsidiary of Premium AEROTEC, introduced the integration of this unique platform, titled AMXpert, into the SAP software landscape at the last Hannover Messe trade fair. The APWORKS tool mainly helps users in solving one of the central issues of additive manufacturing, namely, how to identify components with potential for metallic 3D printing. "Through this collaboration, we—together with SAP and the Manufacturing Network—have taken the next logical step towards industrializing metallic 3D printing. By working as a team, we have developed a way for customers to test mass data for printability and to bring together the experts and the customers on the virtual platform. Worth noting here is a self-learning database, which is used primarily to intelligently assess printability, orientation, and thus costs." Sven Lauxmann from APWORKS points out that this results in a significant savings in both costs and resources. The new, integrated tool should be available online for numerous materials in a few weeks.

Speaking of Scalmalloy®: Heraeus Additive Manufacturing is the new sales and cooperation partner to APWORKS GmbH in the further development of Scalmalloy®. Scalmalloy® is the first material in the world developed specifically for additive manufacturing and the highest-strength printable aluminum alloys available on the market today. As a materials specialist in the production and validation of metal powders for additive manufacturing, Heraeus is a leading partner in the development of new metal alloys. Tobias Caspari, Head of Heraeus Additive Manufacturing, is confident about the advantages of the new cooperation. "Together with APWORKS, our goal is to commercialize Scalmalloy®, to find new potential uses, and to generate interest for the product in various different industries. We aim to show everything that is possible with a material like Scalmalloy® and with 3D printing in general. The cooperation with SAP Distributed Manufacturing is an important element in achieving this goal."

#### **Background: SAP Manufacturing Network**

SAP Manufacturing Network bundles supply and demand for industrial additive manufacturing and combines a common design as well as material optimization, integrating them into the customer's supply chain, and aims to more fully exploit the potential of 3D printing. Supported by the innovative SAP application, manufacturing companies work together with producers of 3D printers, service providers, material producers, and logistics providers in virtual project rooms on efficient production of components "just in time," meaning production aligned with need.

## **About Heraeus Additive Manufacturing**

The Additive Manufacturing division of Heraeus, the technology group based in Hanau, develops and validates special metals and the corresponding 3D printing processes. With its combined expertise in materials, production processes and print technologies, Heraeus ensures the highest possible process reliability and efficiency at the customer. To ensure this, it has experts in design, simulation and process development, a technical center for printing, powder manufacturing equipment, and opportunities for powder recycling.

## **About APWORKS**

APWORKS is familiar with modern production processes and makes concepts proven in the aerospace field accessible to a wide variety of different industries. Focusing on metallic 3D printing, also known as additive manufacturing, the company covers the entire value chain for manufacturing components and replacement parts—from optimized component design through selecting suitable materials and producing prototypes, to qualified serial production. Customers in the fields of robotics, mechanical engineering, automotive, medical technology and aerospace benefit from functionally well integrated and optimized components at lower weights and shorter production times. This also makes it possible to implement far more complex geometries than before. For more information, visit [www.apworks.de](http://www.apworks.de).

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## **About Heraeus**

Heraeus, the technology group headquartered in Hanau, Germany, is a globally leading portfolio company and is family owned. Founded in 1851, the company's roots trace back to a pharmacy operated by the family since 1660. Today, Heraeus pools numerous businesses in the areas of environment, energy, electronics, health, mobility and industrial applications.



**Tobias Caspari, Head of Heraeus 3D Printing**



**APWORKS**

**Sven Lauxmann, Head of Sales and Marketing, APWORKS GmbH**



**Carsten Dietze-Selent,  
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