



Exentis' technology is used to produce optimized stator and rotor blades and thus essential components of an electric motor. Image credit: Exentis

Exentis accelerates the energy transition

14 June 2023 10:32

Related partners

Exentis Group AG

Stetten - 3D screen printing technology from Swiss-based Exentis Group AG enables the production of more efficient motors for electric vehicles and more powerful fuel cells. With its additive manufacturing process, Exentis is a pioneer in these areas, according to a study.

Exentis Group AG's 3D technology platform for industrialized additive manufacturing has the potential to become a key technology in the New Energy sector. It enables the production of millions of industrial parts on a single 3D production system. According to experts from the management consultancy Roland Berger, the process sharply increases efficiency in electromobility, fuel cells and energy storage systems. New Energy represents one of Exentis' three strategic business areas, which also include Pharma & Medtech and Ultra-fine Structures.

In the context of electromobility, Exentis focuses on cooperations with automotive suppliers. Its special 3D cold printing process is used, among others, for producing stator and rotor sheets, which are key components of electric traction motors. Compared with production using conventional technologies, the components have a significantly lower weight and smaller dimensions, while at the same time exhibiting better conductivity. This also increases the efficiency of the motors.

Likewise for fuel cells, the use of Exentis' 3D technology platform facilitates an increase in performance, according to the study. The platform can be used to provide bipolar plates with complex flow fields while reducing weight and volume. Thanks to the license-based business model, Whitecell Power AG has acquired an exclusive license for the production of these innovative bipolar plates.

The New Energy segment is being largely driven by the high demand for electromobility and CO₂-free energy. The end market for stator and rotor sheets is forecast to grow by 17 per cent annually until 2026, and by 13 per cent annually for bipolar plates. According to the study, Exentis faces competition in both fields primarily from suppliers of conventional production methods. As such, it can position itself as a pioneer. ce/yvh

Supporting partner





SWISS PAVILION DIGITAL

< Swiss aviation industry well represented at the Paris Air Show

20 June 2023 14:44

Le Bourget - In total, 40 Swiss companies are in attendance at the Paris Air Show. The SWISS Pavilion is being organized by Swissmem. The official Swiss delegation is headed up by the National Armaments Director Martin Sonderegger.

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Keepars continues to grow

15 June 2023 16:11

Allschwil - Keepars, based in the canton of Basel-Landschaft, is planning to expand further in Europe and the Middle East. It is set to open a site in Abu Dhabi this year, and another in France, where it intends to step up its activities of clients' support as well as research and development activities focusing on hearing systems for extreme environments.

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Carbomill expands aerospace offering

15 June 2023 12:04

Seon - Carbomill AG is now offering the production process of electrical discharge machining (EDM) to the aerospace industry. The mechanical high-end processing specialist based in Aargau has enlarged its machine fleet to do so.

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Airwork & Heliseilerei bring many production steps in house

15 June 2023 11:15

Immensee - Airwork & Heliseilerei has established more and more competences and machines in Immensee in the canton of Schwyz over recent years. This has shortened production routes and supply chains and quantifiably improved processes. It also enables even greater consideration of client wishes.

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