Press information

“Clean Sky” – electric motors for aviation

Gehring subsidiary copperING developed as a project partner motors for electrified air traffic

Ostfildern/Nuvolera, December, 02nd, 2019: The Gehring subsidiary coppering in Nuvolera/Italy develops together with the Universities of Modena and Nottingham ten prototypes as well as the appropriate production technology for electrical drives in aircraft. In the next 2 years stators will be made from different material for the winding, including tools, machines and production devices with the aim of significantly reducing CO2- and nitrogen monoxide emissions and aviation noise in the future.

Even if the “all electric aircraft”, hence the electric aircraft in everyday use, is still a bit of wait, the term “more electric aircraft” is already significantly improving the efficiency of aviation. The electric motors and actuators in the wings, rudders and tail unit addressed in the project are an important lever here. Due to their lower overall weight and simplified architecture, among other things, they help to reduce consumption compared to the hydraulic and pneumatic systems that are common today.

All of the innovation efforts are part of the Clean Sky 2-Projects, in which major aviation partners research and develop together for clean flying. copperING is an industrial partner of the AUTO-MEA subproject. In the future, the produced components will form the industrial basis for avoiding complex and energy-intensive hydraulics on the support and chassis. The cabin pressure, which is currently generated by misusing the turbines and is therefore also very energy-intensive, is to be regulated by electric motors in the future.

About the Gehring Group:

With the Gehring and copperING brands, the Gehring Group offers innovative production solutions for highly efficient conventional and electrified power trains. In the field of fine machining, the company has been shaping the development of honing technology for more than 90 years and provides the automotive industry with the processes of laser roughening, coating and honing answers to the current challenges around the combustion engine. The production technology for e-mobility expands the Group's portfolio and sets new standards in the flexible series production of electric motors.

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