

TENSOR 600X gyroplane presented at AERO 2023

Tensor AG underlines commitment to eFuels in Friedrichshafen

Friedrichshafen/Genderkingen, April 19, 2023. Tensor AG, based in Genderkingen, Bavaria in Germany, will present its newly developed TENSOR 600X gyroplane at AERO 2023 (Hall/Stand A5-219). The new paint scheme signals the company's commitment to CO₂-neutral eFuels in General Aviation.

The TENSOR gyroplane, with its revolutionary new rotor blade design, opens up an entirely new market segment in the aviation industry between helicopters and fixed-wing aircraft. The TENSOR gyroplane will win customers where extremely short take-off and landing characteristics (XSTOL) at lowest operating costs are required. The take-off distance is only 86 meters (ISO conditions, sea level, no wind and MTOW = Maximum Takeoff Weight). The landing distance under the same conditions is only about 15 meters, which is about the diameter of a helipad. Due to its wide speed range from 30 kts (VSO = Maximum Normal Operation Speed) to a maximum of 130 kts (VNE = Never Exceed Speed) and the principle of permanent autorotation, TENSOR gyroplanes are also among the safest and most flexible aircraft available.

With the first commercial gyroplane, the TENSOR 600X, the Tensor AG team has now created a new type of aircraft that can transport people and goods to the most remote regions in an efficient, safe and environmentally friendly manner. Further applications can be found in the field of professional earth, border and traffic observation.

Tensor's gyroplane is designed to integrate different propulsion concepts. The goal is to power the aircraft with synthetic fuel as soon as possible and thus fly CO₂-neutral. Tensor AG is an associated partner in the federally funded research project "DeCarTrans" (Demonstrating a Circular Carbon Economy in Transport Along the Value Chain) and represents the aviation segment in the eFuels project.

The aim of the DeCarTrans project is the joint development of climate-neutral fuels for tomorrow's mobility. Project partners are the Lothar Group, Chemieanlagenbau Chemnitz, FEV Europe GmbH, Forschungszentrum Jülich, Technische Universität Bergakademie Freiberg and Coryton Advanced Fuels Deutschland. In addition to Tensor AG, representatives of the automotive and petroleum industries are involved as associated partners.

"From our point of view, eFuels are currently the right and only functioning climate-friendly solution for general aviation," says Hubertus von Janecek, CEO of Tensor AG. "Battery development today and in the near future is not at the level to make electric flying over longer distances suitable for everyday use and commercially viable. Our calculations also show this. With our commitment to eFuels, we want to pioneer sustainable flying."

Tensor AG expects the project, together with its partners, to take a major step toward bringing the synthetic fuel to market. It is produced from biomethanol using the methanol-to-gasoline (MtG) process.

The TENSOR 600X presented at AERO is currently in the final stages of certification in Germany as an ultralight (UL) and is scheduled for delivery to customers from spring next year. The next planned step is EASA certification of the 600 series with up to 800 kilograms MTOW for commercial use.

About Tensor AG

Tensor AG, formerly Fraundorfer Aeronautics, is a Bavarian technology and aviation company based at the "Donauwörth-Genderkingen" (EDMQ) airfield. It has developed and patented a new rotor technology for gyroplanes that opens up a new market segment in the aviation industry between fixed-wing aircraft and helicopters. The company's vision is to fly in areas where it has not been possible before. With its innovative technology, Tensor aims to establish efficient and environmentally friendly airborne locomotion that is independent of infrastructure on the ground. Behind Tensor AG are engineers and pilots with many years of experience in the aviation industry and research.

Contact:

press@tensor.aero
+4917678003129