Gyrocopter for Aerial Survey Operations

DiNelly Aerosystems presented its new eXoGyro gyrocopter as a versatile aerial platform for airborne sensing missions at the recent AERO 2013 global aviation fair held in Friedrichshafen, Germany. The eXoGyro has been developed primarily for the commercial user. With its 1.6mÂ³ cabin, it provides the necessary space to install a variety of airborne sensor systems for mapping and other observational purposes.

Alternatively, depending on national regulations, the machine can be operated with up to five seats. The eXoGyro comes in 16 different model configurations which have each been optimised for professional operations including First Responder, Mobile Lab, Aerial Sensing, Tourism, Security & Safety, Police & Military and such like.

DiNelly Aerosystems was founded in February 2012 with the intention of developing and manufacturing a multifunctional gyrocopter in-house. The team already had considerable experience in the aviation industry and had worked in particular on several gyrocopter projects. After the detailed CAD design and extensive simulation as well as the usage of modern high-tech materials and manufacturing methods, the industry's first four-door gyrocopter was created. All calculations were based on an MTOW of max. 750kg for the international market with a basic weight of approx. 282kg (model dependent).

Since the eXoGyro will be certified under the UL class (Germany), STC (Supplement Type Certificates) are not required when changing sensor systems. Due to budgets constraints within public contracting entities, the service companies are constantly forced to search for potential savings, and the low operational and acquisition costs involved in the eXoGyro permit the development of new applications and market segments.

The modern production facility located 160km north of Berlin offers scalable capacity for more than 1,000 eXoGyro per year. The company employs well-qualified staff with experience in aircraft assembly to guarantee continued high-quality manufacturing standards.

With the German certification procedures expected to be concluded successfully by the end of June this year, DiNelly has scheduled first customer deliveries in August 2013. Pilot training and retraining will be provided by the companu's Flight Training Centre. Training includes eXoGyro-specific safety instruction, including adjustable rotor beam.

https://www.gim-international.com/content/article/gyrocopter-for-aerial-survey-operations