



DEVELOPMENT OF HYDROGEN-FUEL TECHNOLOGY FOR CARGO DRONES - DRONAMICS AND CRANFIELD AEROSPACE

News / Manufacturer



Dronamics and Cranfield Aerospace Solutions will be combining their expertise to integrate hydrogen fuel-cell technology into the Black Swan, the long-range cargo drone. Brought together by their mutual belief that hydrogen fuel-cell technology can open up the possibility of zero-emissions aviation, the two aerospace innovators will be working together to bring to market a viable, sustainable solution for cargo delivery services.

The collaboration will focus on integrating the hydrogen fuel-cell technology CAeS is developing into the Black Swan, the flagship aircraft designed, developed and operated by Dronamics, resulting in a technically and commercially feasible zero-emissions offering. The Black Swan is

capable of carrying up to 350 kg at a range of up to 2,500 km and is set to change how the world moves goods, making same-day delivery over long distances affordable, efficient and environmentally friendly.

Konstantin Rangelov, Co-Founder and CTO of Dronamics, *commented*: “When we set out to develop our drone technology, we had a very clear goal in mind - build the most efficient cargo aircraft to date. Less time, less cost, less emissions. Our partnership with Cranfield Aerospace Solutions will allow us to bring clean, zero-emission aviation technology to more communities and businesses in all corners of the planet, quicker. We have a lot of work ahead of us but we couldn’t be more excited for it. ”

Paul Hutton, CEO of CAeS, said: “This partnership with Dronamics represents a fantastic opportunity for CAeS. Not only will the hydrogen-fuel-cell technology we are currently developing for the 9-seat Britten-Norman Islander change the face of regional aviation, but it will also make a huge impact on the cargo industry. The combined experience and expertise of CAeS and Dronamics is a very exciting prospect.”

With ICAO’s recently announced collective global goal of net-zero carbon emissions by 2050 and COP27 addressing urgent joint action across the world, Dronamics and CAeS firmly believe that the time to tackle those challenges is now, together.

09 NOVEMBER 2022

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