VERTICAL AEROSPACE PARTNERS WITH SYENSQO TO SUPPORT INDUSTRIALISATION PLAN FOR VX4 AIRCRAFT

News / Manufacturer



Vertical Aerospace and Syensqo, a global leader in advanced materials, today announced a new long-term supplier partnership. Syensqo's high-performance composite and adhesive materials - already used in Vertical's prototype programme - have been selected for the VX4 aircraft, which is targeting certification in 2028 before entering into commercial service. This comes after multiple years of close collaboration between the teams at Syensqo and Vertical.

Stuart Simpson, CEO, Vertical Aerospace, commented: "We are bringing the VX4 to market alongside leading global partners, and deepening our successful partnership with Syensqo as our advanced-materials supplier is a vital step in that journey. Their decades of expertise in lightweight, high-performance composites - combined with our shared commitment to safety and certification - will help us deliver a resilient, agile aircraft as we progress toward commercial operations."

Rodrigo Elizondo, President Syensqo Composite Materials, stated: "We are honored to deepen our collaboration with Vertical. Our advanced composite and adhesive technologies are designed to push the boundaries of lightweighting and performance, supporting the VX4's journey toward

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safer, cleaner and more efficient air mobility. As Vertical moves into certification and industrialisation, we look forward to bringing our scientific expertise and strong customer partnership to support the VX4’s successful entry into full-scale production."

Syensqo’s advanced materials will be integrated across the entire structure, providing the lightweight strength, structural efficiency and durability required for the high-cycle operations of electric vertical flight. Securing advanced composite materials is critical in ensuring the VX4 can withstand repeated take-offs and landings while maintaining safety and performance at scale. VX4’s airframe itself will be manufactured by Aciturri, a leading global aerostructures supplier, supporting Vertical’s transition into full commercial production.

Syensqo brings extensive aerospace experience, supplying advanced materials to many of the world’s leading aircraft manufacturers and defence companies. This experience makes Syensqo an ideal partner as Vertical advances toward both civil and defence applications of its aircraft platform.

This extension of Vertical’s partnership with Syensqo comes as Vertical continues to formalise the core supply chain for its certification aircraft, alongside Honeywell, Aciturri, and other global partners.

Vertical plans to unveil its new aircraft design on 10 December in London, showcasing the VX4’s industry-leading design, passenger and luggage capacity, and global certification-ready architecture.

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