



AutoFlight Unveils Worldâ??s First 5-Ton Class eVTOL Aircraft

Descrizione

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SUZHOU, China, Feb. 5, 2026 /PRNewswire/ â?? AutoFlight has unveiled Matrix, the worldâ??s first 5-ton class electric vertical take-off and landing (eVTOL) aircraft, which successfully completed a public full transition flight demonstration at the companyâ??s low-altitude flight test facility center.

During the demonstration, Matrix completed the full mode transition flight sequence, transitioning from vertical take-off through cruise flight to vertical landing. The achievement validates AutoFlightâ??s eVTOL technologies across complex aerodynamic systems, high-power electric propulsion, and advanced flight control systems, marking the first time a 5-ton eVTOL has achieved full transition flight.

Matrix features a 20-metre wingspan, 17.1-metre length, and 3.3-metre height, with a maximum take-off weight of 5,700kg.

The aircraft will be available in passenger and cargo variants. The passenger version offers flexible seating configurations, accommodating either 10 business-class seats or six VIP seats.

The cargo variant uses hybrid power system, supporting a maximum payload of 1,500kg, and features a large forward-opening door capable of accommodating two AKE standard air cargo containers, enhancing operational efficiency for ton-scale cargo transport.

eVTOL Industry Disruptor

AutoFlightâ??s CEO and Founder, Tian Yu said: â??Matrix is not only a rising star in the aviation industry but also an ambitious industry disruptor. It will break the industry perception that eVTOL = short-haul, low-load, and will reshape the rules of eVTOL routes. Through economies of scale, it significantly reduces transportation costs per seat-kilometer and ton-kilometer, revolutionizing costs and embracing profitability. It covers all scenarios from urban commuting to intercity feeder routes, driving the expansion of the entire low-altitude ecosystem.â?•

Design and Safety Features

Matrix employs AutoFlight's compound wing Lift and Cruise configuration with a distinctive triplane layout and six-arm structure, ensuring aerodynamic stability throughout all flight phases.

The pure electric version offers a maximum range of 250km, while the hybrid-electric variant extends range to 1,500km. The platform's capacity positions it for diverse applications including regional travel, heavy logistics operations, and large-scale emergency response missions.

AutoFlight's Strategic Development

Matrix represents a continuation of AutoFlight's product strategy, following the company's Great White Shark for industrial applications, CarryAll for autonomous logistics, and Prosperity for urban air mobility. The development program builds upon AutoFlight's accumulated expertise in low-altitude flight technology, reliability, safety systems and airworthiness certification.

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