



Singapore's electric vertical takeoff and landing aircraft successfully completed test flight, targeting maritime logistics.

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(CNA reporter Wu Shenghong, [Singapore](#) , 25th) [Nanyang Technological University](#) in Singapore completed a flight test in Germany, successfully test-flying the first domestically designed, engineered, and manufactured electric vertical takeoff and landing (eVTOL) aircraft. Experts point out that in the future, there may be different types of cargo transportation needs, such as ship-to-ship, ship-to-ground, and ground-to-ship, and eVTOL is expected to become one of the new modes of transportation.

A team from Nanyang Technological University (NTU Singapore) collaborated with flight test experts from the German Aerospace Center to launch an 8-meter wingspan demonstrator aircraft.

Up to a height of 90 meters or more.

The month-long test took place in Germany from July to August, during which the prototype demonstrated its ability to hover, fly using a fixed wing, and switch between the two modes.

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Professor James Wang of the School of Mechanical and Aerospace Engineering at Nanyang Technological University told the Central News Agency this morning that electric vertical takeoff and landing (eVTOL) aircraft could be applied to cargo transportation in the future. The Straits of Malacca and the Singapore Strait influence a large volume of global maritime trade, and in the future, there may be various types of cargo transportation needs, including ship-to-ship, ship-to-land, and land-to-ship. eVTOL is expected to become one of these new modes of transportation.

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He said that if the technology matures further, eVTOL could not only operate within Singapore, for example, flying from the west to the east, but could also extend to other Southeast Asian countries, forming a regional air transport network, and even export the aircraft and technology to other Southeast Asian markets.

As global urban populations and development densities continue to increase, vertical takeoff and landing (eVTOL) capabilities will become increasingly important. James Wang points out that compared to traditional aircraft requiring large runways, eVTOL can operate in relatively smaller takeoff and landing areas, making more efficient use of limited land in highly dense cities, thus opening up new possibilities for future development.

This will provide new possibilities for urban transportation and logistics.

These eVTOL prototypes are the result of more than three years of engineering research and development by the Nanyang Technological University team, during which researchers conducted structural and aerodynamic analysis, detailed design, system testing, and system integration.

According to information from Nanyang Technological University, the eVTOL research project is not only about developing individual aircraft technologies protected by intellectual property rights, but also about building a systems engineering knowledge base and cultivating the talent needed in Singapore to design, engineer, manufacture, test and ultimately support advanced electric aircraft, vertical flight and advanced air mobility.

This prototype, designed and built entirely by a Singaporean team, made its public debut at the Singapore Airshow earlier this year. Last year, Singapore collaborated with several Asia-Pacific countries and regions to draft relevant documents and assist regulatory authorities in preparing for the commercial operation of the aircraft. Electric vertical takeoff and landing (EVTOL) aircraft can be used in logistics, emergency medical services, search and rescue, and law enforcement. (Editor: Chen Huiping) 1150825