



Feb 03, 2023 11:45 CET

At Lufthansa Cargo, the world's first freighter to take off with CO2-efficient AeroSHARK technology

Lufthansa Cargo will begin equipping all Boeing 777 freighters with AeroSHARK from 2023. Innovative surface technology from Lufthansa Technik and BASF improves fuel efficiency and helps achieve sustainability goals.

Lufthansa Cargo's first AeroSHARK-modified Boeing 777 freighter, registered D-ALFA, took off for the first time at 05:07 (CET) on February 3, 2023. Under flight number LH8410, the B777F started from Frankfurt (FRA) to Bengaluru (BLR), from where it will fly on to Chengdu (CTU).

AeroSHARK is a surface film that mimics the microscopic structure of shark skin. Its structure consists of ribs around 50 micrometers in size - so-called riblets. If the flow pattern on the fuselage and engine nacelles of the Boeing 777F is optimized in this way, significant savings in fuel and thus emissions can be achieved. This modification, developed by Lufthansa Technik and BASF, will now gradually be used on Lufthansa Cargo's entire fleet of 777 freighters, making them more fuel-efficient and reducing emissions.

For the modified Boeing 777F, Lufthansa Technik expects fuel savings of slightly more than one percent. Extrapolated to Lufthansa Cargo's entire 777 fleet, this will result in annual savings of more than 4,000 metric tons of kerosene and nearly 13,000 metric tons of CO₂ emissions, equivalent to about 53 individual cargo flights from Frankfurt to Shanghai.

"We are proud to be able to operate our entire freighter fleet even more efficiently in the future thanks to Sharkskin technology and to further reduce the carbon footprint of our modern fleet. Our investments for the introduction of AeroSHARK bring us closer to our goal of being 100 percent CO₂-neutral in the air by 2050; on the ground, we would like to achieve this goal as early as 2030," explains Dorothea von Boxberg, Chairwoman of the Executive Board and CEO of Lufthansa Cargo.

In cooperation with BASF, Lufthansa Technik is responsible for the specification of the material, the airworthiness certification and the implementation of the aircraft modifications, which are carried out during regular maintenance layovers. In December of last year, the company obtained a Supplemental Type Certificate (STC) for two types of Boeing 777 from the European Aviation Safety Agency (EASA), paving the way for the serial application now underway on the 777 freighter fleet.

Lufthansa Cargo AG

With a turnover of 3.8 billion euros and a transport performance of 7.2 billion freight ton kilometers in 2021, Lufthansa Cargo is one of the world's leading companies in the transport of airfreight. The company currently employs around 4,200 people worldwide. Lufthansa Cargo's focus is on the airport-to-airport business. The route network covers around 300 destinations in more

than 100 countries, using both freighter aircraft and cargo capacity from passenger aircraft operated by Lufthansa, Austrian Airlines, Brussels Airlines, Eurowings Discover and SunExpress, as well as trucks. The majority of the cargo business is handled via Frankfurt Airport. Lufthansa Cargo is pursuing the goal of becoming the world's most sustainable cargo airline. To achieve this, the company relies on state-of-the-art technologies and continuous investments in the area of sustainability. In 2021, important milestones were reached, such as the fleet modernization to an all-B777F fleet and the introduction of completely CO2-neutral freight transport for all customers. In 2022, Lufthansa Cargo plans to successively equip its fleet with Sharkskin technology and expand its Sustainable Aviation Fuel program to further reduce CO2 emissions. Lufthansa Cargo is a wholly owned subsidiary of Deutsche Lufthansa AG and the specialist for the logistics business of the Lufthansa Group.

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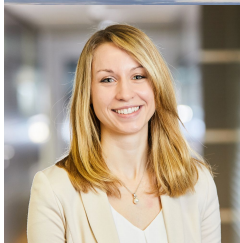


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