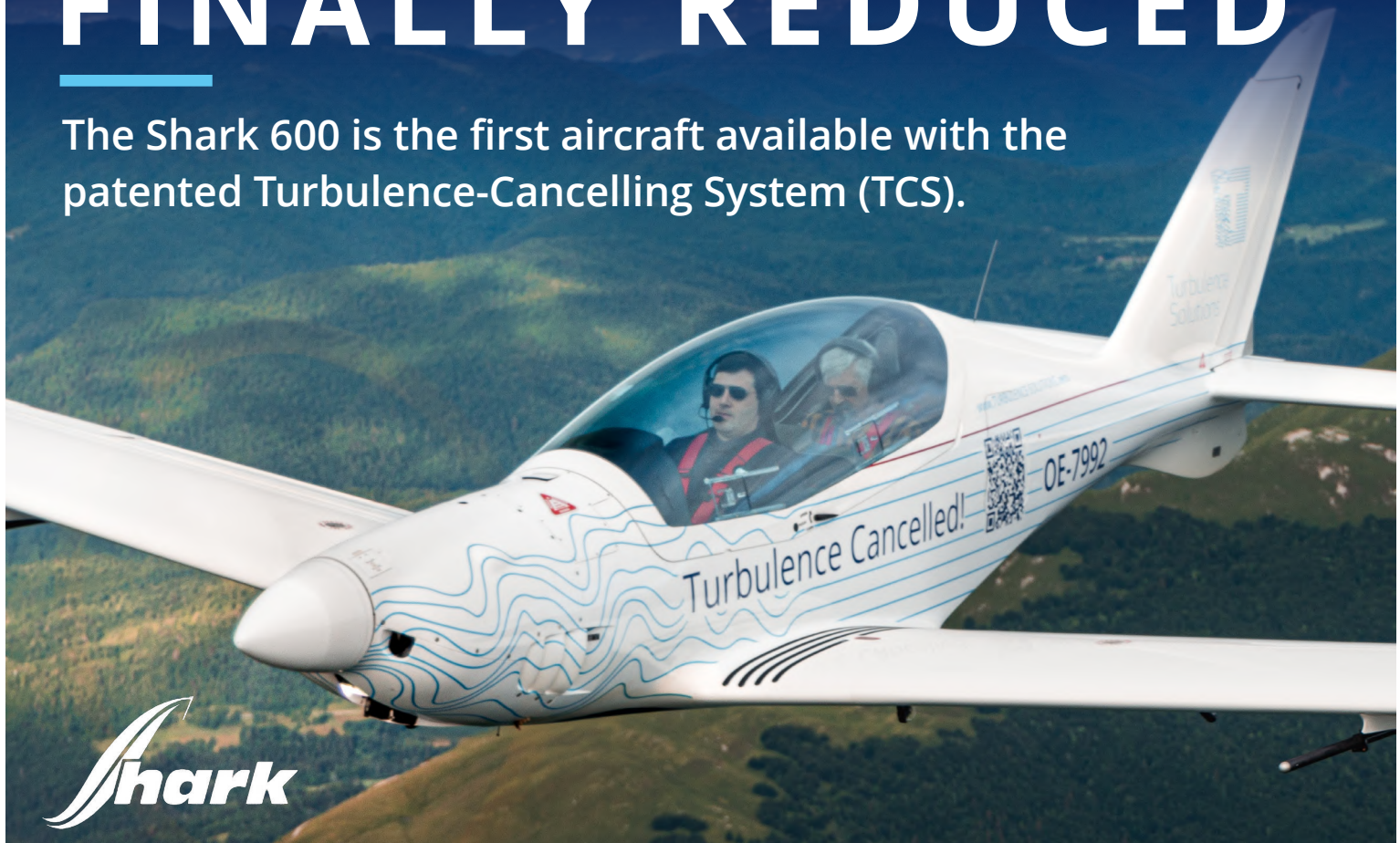


TURBULENCE? FINALLY REDUCED

The Shark 600 is the first aircraft available with the patented Turbulence-Cancelling System (TCS).



Shark



For Pilots

A calmer cockpit, reduced workload and more comfort in challenging air.



For Passengers

More confidence, less tension and a more enjoyable flight experience.



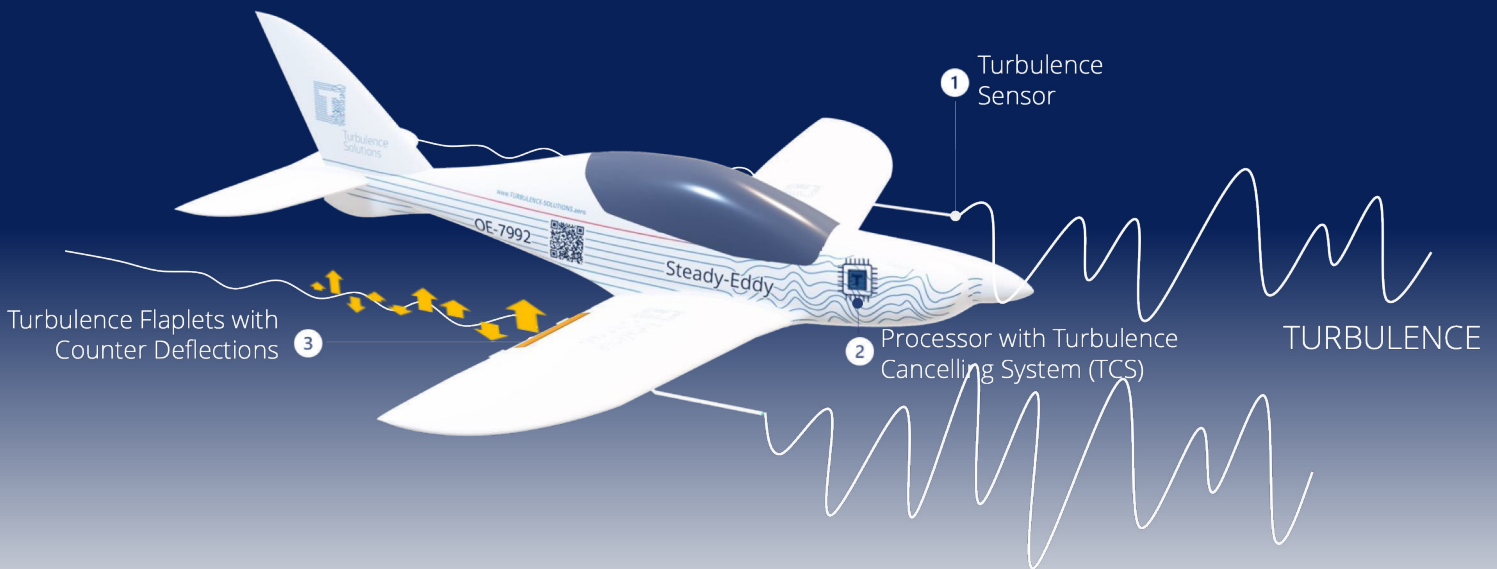
For Owners

A unique innovation that makes the Shark even more attractive for private, business and shared flying.

Shark already delivers speed, efficiency and freedom. With the optional Turbulence-Cancelling System (TCS), the experience becomes even smoother, calmer and more confidence-inspiring, especially in thermally active or gusty air.



See the aircraft. Ask for the TCS walk-around.



The Turbulence-Cancelling System (TCS) works on a principle comparable to Noise Cancelling, but for aircraft motion.

A turbulence sensor measures air movements ahead of the wing. The system then calculates the expected aircraft movement and commands small, rapid counter-deflections on dedicated Turbulence Flaplets. These counter-deflections help reduce the vertical motion caused by turbulence before it fully affects the aircraft.

- 1 **Sense:** Air movements are detected actively ahead of the wing.
- 2 **Calculate:** The Flaplet Control Unit predicts the aircraft response in real time.
- 3 **Counteract:** The Turbulence Flaplets generate precise counter-deflections to reduce the effect of turbulence.

Safety Concept

The Turbulence-Cancelling System (TCS) is designed as a **pilot-assistance system**. It supports a smoother flight experience by actively reducing turbulence-induced aircraft motion, while the pilot remains in full control at all times.

TCS can only be activated **within defined flight-envelope limits**. If the aircraft leaves these defined operating limits, the system automatically deactivates and active turbulence compensation is discontinued. During take-off and landing, TCS remains deactivated.

The system is limited by design and **continuously monitored**. In the unlikely event of a detected malfunction or abnormal system state, TCS is designed to fail safely and passively: active turbulence compensation is discontinued, the Turbulence Flaplets are no longer used to generate counter-deflections, and the aircraft remains controllable in its normal flight configuration.

Pilot always in control

TCS can be switched off by the pilot at any time. The pilot can also override the system through the primary flight controls. This safety concept is designed to always support safe aircraft operation.

A smoother flight experience, for you and your passenger.

Turbulence is one of the main reasons why passengers feel uncomfortable in small aircraft. Sudden bumps, drops and constant aircraft movement can create tension, reduce confidence and limit the enjoyment of flying.

The Turbulence-Cancelling-System (TCS) helps make flights in the Shark 600 noticeably smoother. By reducing turbulence-induced

aircraft motion, TCS supports a calmer cabin atmosphere and a more relaxed experience for everyone on board.


- For pilots, this means greater comfort and reduced workload in challenging air.
- For passengers, it means more confidence, less tension and a more enjoyable flight.





The Shark 600 combines speed, range and efficiency with the agility of a modern high-performance light aircraft. TCS adds a new dimension of comfort and confidence, particularly when flying in thermally active air.



With TCS, the Shark becomes an even more attractive aircraft for private & business travel, shared flying and flights with family or friends.

 **Comfort:** A noticeably smoother ride helps passengers feel more relaxed and enjoy the flight.

 **Confidence:** Reduced turbulence effects can increase the perceived sense of safety and control, especially for sensitive passengers.

 **Pilot fatigue:** Less aircraft motion means a calmer cockpit environment and reduced physical strain during turbulent conditions.

 **Aircraft value:** As the first Shark available with this patented technology, TCS creates a clear and unique differentiator.

More comfort. More confidence. More joy of flying.

Experience the difference

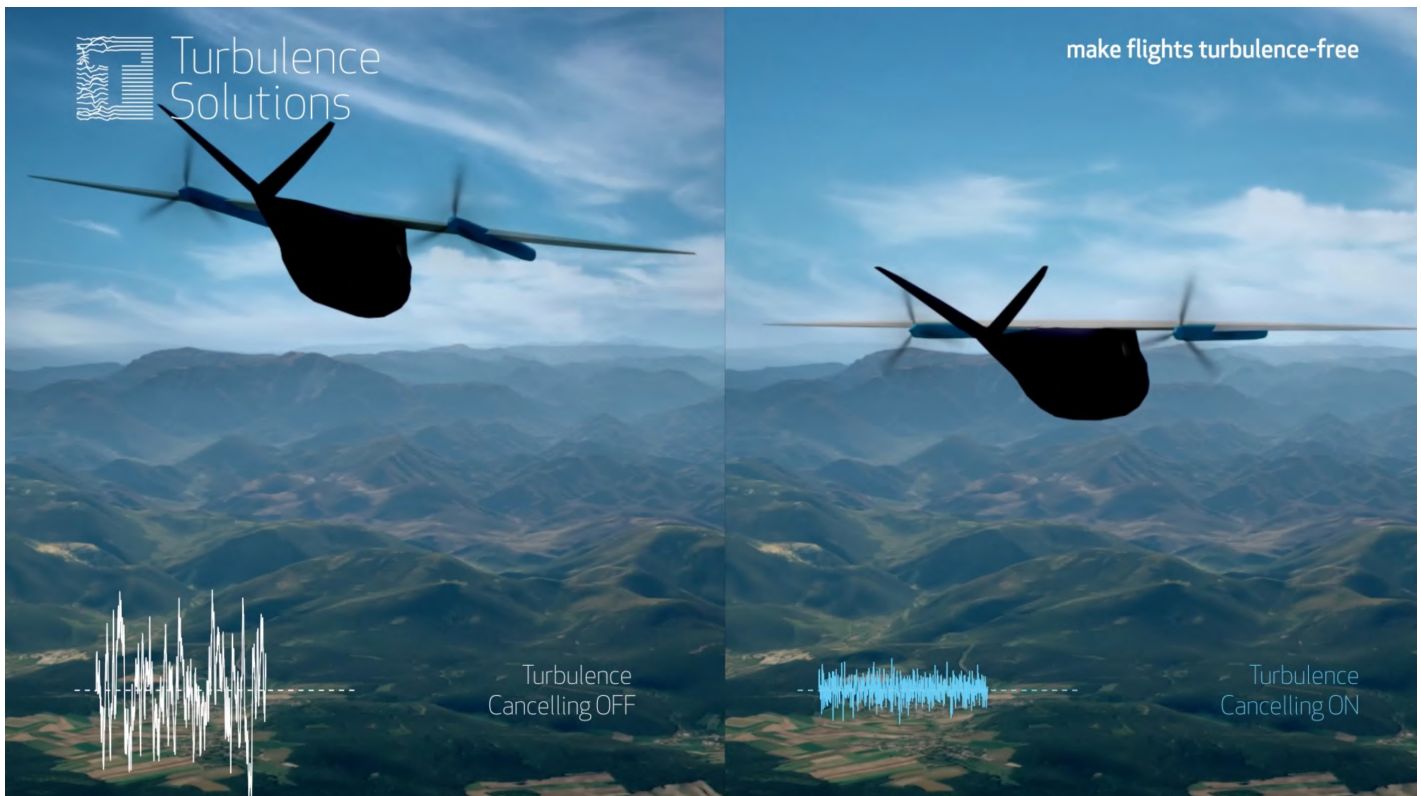
Turbulence-Cancelling-System (TCS) is something you can understand technically, but it is best experienced in flight.

With TCS activated, the Shark 600 delivers an even smoother and more relaxed flight experience in turbulent air.

For pilots, it adds comfort and confidence.

For passengers, it can transform the emotional quality of flying.

Ask about the TCS option for your Shark 600/Turbo.



CONTACT

For aircraft and availability information

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Disclaimer

The Turbulence-Cancelling-System (TCS) is an assistance system designed to reduce the effects of turbulence. It does not eliminate all aircraft motion and does not replace pilot responsibility, aircraft limitations or operational judgement. Technical data, performance figures and described benefits are indicative and may be subject to change.. See details on www.turbulence-solutions.aero

European
Innovation
Council



Funded by
the European Union

The Turbulence-Cancelling System (TCS) is an outstanding example of European deep-tech innovation in aviation.

Developed by Turbulence Solutions in Austria, the patented technology brings a new level of comfort, confidence and flight quality to fixed-wing aircraft (including eVTOL/AAM, drones).

In 2025, Turbulence Solutions was selected as one of only 40 companies across Europe to receive funding from the European Innovation Council under the Horizon programme, a strong recognition of the technology's innovation potential, strategic relevance and contribution to the future of aviation.