



# Behind the scenes at E-Props: testing facilities, aircraft fleet & AERO 2026

## Discover E-Props' testing facilities

### Chicken gun for bird strike



Bird impacts are among the most demanding events a propeller can encounter in service. To assess blade robustness under such conditions, the aerospace industry uses a “chicken gun” to simulate a controlled impact with a bird-sized projectile. Designed and built in-house, this bird strike test bench is

part of the development and validation campaign for the ASCALON range, dedicated to direct-drive engines and currently undergoing EASA CS-P certification. Having such a capability internally gives E-Props a unique level of autonomy and confidence in the robustness of its propellers.

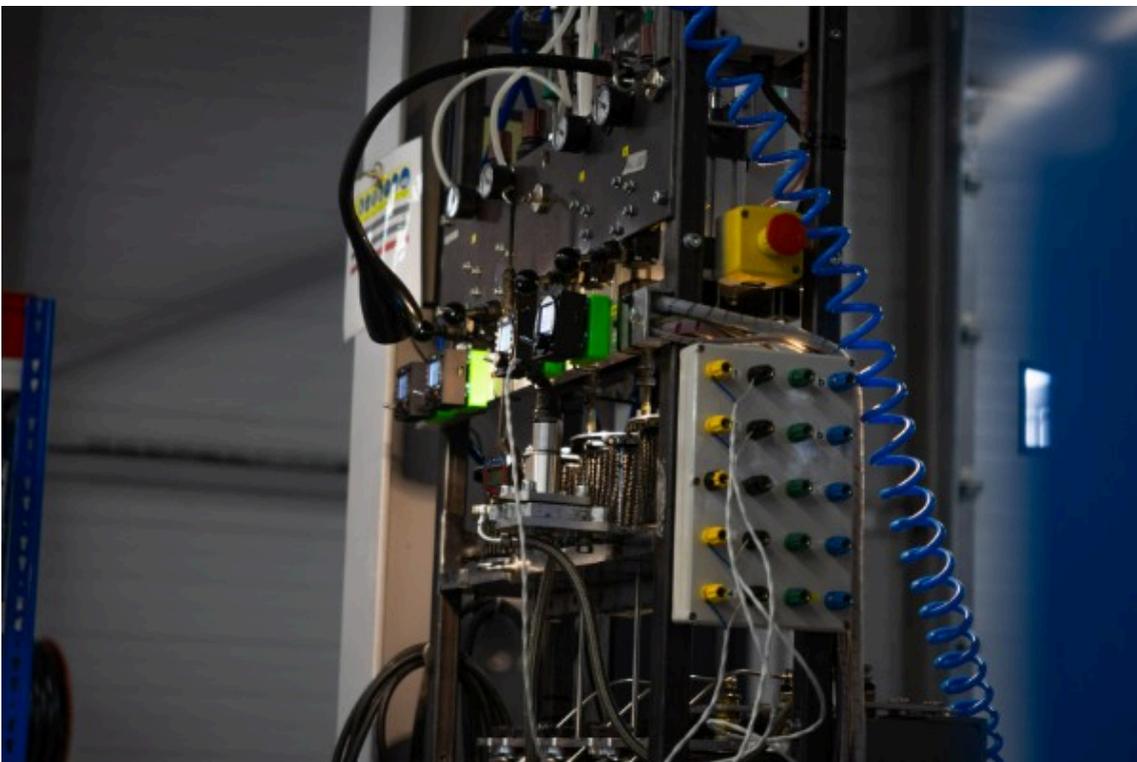
Video of a chicken cannon test

## Vibration test bench



This test bench is used to determine the vibration resistance of propellers and define their service life, in order to meet the requirements of EASA CS-P §370 certification. The objective of the current tests is to achieve unlimited service life for the ASCALON range.

## SHEEVA High Pressure Hydraulic Test Bench



The SHEEVA test bench tests all governor, regulator, and calculator assemblies of GLORIEUSE variable pitch propellers. It simulates flight conditions. All these components are validated individually before delivery.

## **Data Acquisition System ELIAS**



ELIAS: a complex system composed of different types of sensors, an electronic unit and strain gauges integrated in the propeller hub, at the root of the blades, and at other key locations on the aircraft. During flight, thousands of measurements are transmitted in real time via Wi-Fi to a computer located in the aircraft, as well as to a display that allows the pilot to adjust the flight based on the required parameters. Designed and manufactured by the E-Props design department.

## **The E-Props aircraft fleet**

The aircraft make it possible to test numerous propeller models in real conditions, thanks to the DAU ELIAS system (see above).

PENA Bilouis aerobatic, 2-seater, Lycoming O-360 180 hp engine



JODEL DR1054 cruise, 4-seater, Lycoming O-320 150 hp engine

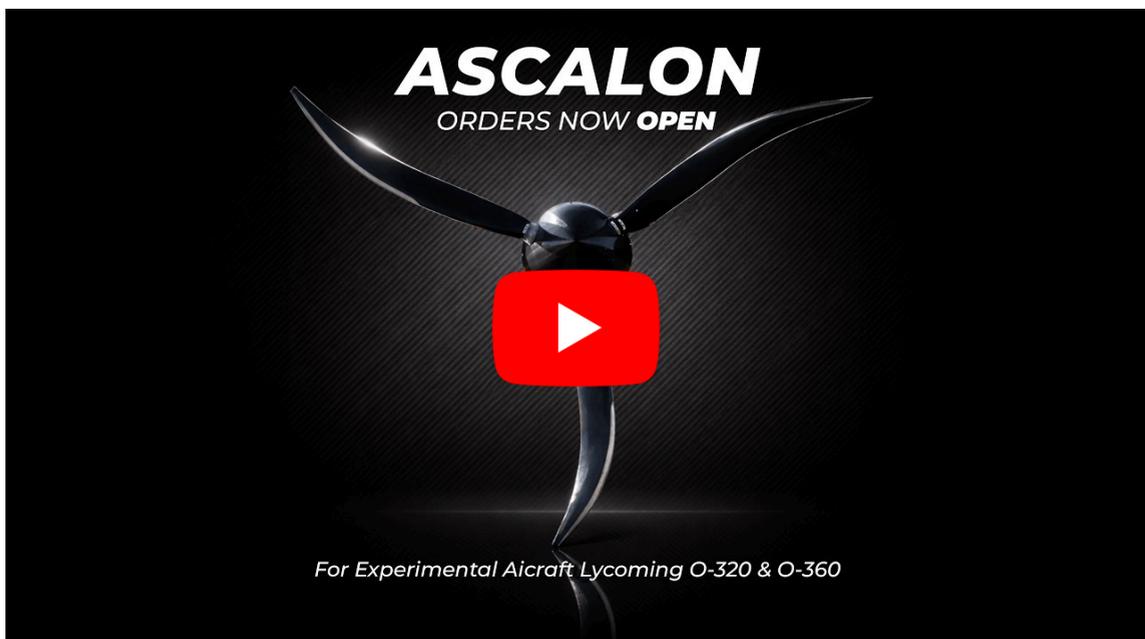


ULM SKYRANGER, 2-seater, Rotax 912S 100 hp engine



## E-Props unveils its new range!

Discover the ASCALON range: a new generation of Carbon-Titanium propellers designed for Lycoming & Continental engines from 100 to 270 hp.



Watch the full video

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