

Subject: Expansion of flight-envelope

Applicability: **AS 33 Es**; Type-Certificate EASA.A.656; 33001 up to 33009 and 33015
(standard from 33010)

Classification: Major Change

Urgency: Before next annual inspection, not later than 31.12.2021.

Reason: Product improvement / removal of limitations

Action: The following actions have to be performed completely at the same time:

A) Modification of the existing airbrakes according to drawing 330.44.9004 for new four-bladed design

B) Update of the software for the ILEC powerplant control unit
An update of the software of the powerplant control unit ILEC MCU type AS 33 Es to the SW-version 0.02c is introduced. With this update the "Low Fuel" warning is adjusted to 1.5 litres.

C) Update of the software for the electronic water ballast system
An update of the software for the wing water tank actuators to SW-Version 3.0.0 and for the control unit in the cockpit to SW-version 3.0.0 is introduced.

D) New plugs for filler openings of the inner wings water ballast tanks
For the inner wings water tanks new filler plugs (AS P/N 330.76.1016) with integrated ventilation openings were introduced. The new caps reduce the time required for fully dumping the water ballast from the inner wings.

E) Introduction of new manuals
The issues for the aircraft flight manual and the maintenance manual were introduced:

- Aircraft Flight Manual for the self-sustaining powered sailplane AS 33 Es, issue 01.11.2020
- Maintenance Manual for the self-sustaining powered sailplane AS 33 Es, issue 01.11.2020

Based on the new manuals the V_{NE} is increased to 270 km/h. Further, winch launch is permitted as take-off procedure. The limitation for maximum flight altitude and requirements on the pilot were cancelled. The service live of the aircraft is increased to 12.000 hours.


Material and Drawings: See Action

Mass and Balance: The change in mass and C. of G. position is negligible.

Notes: The structural measures have to be accomplished by the manufacturer Alexander Schleicher GmbH & Co or a company authorised by the manufacturer.
The action has to be considered as a complex maintenance task regarding aviation law. The respective regulations must be applied.

Poppenhausen, 09.03.2021

Alexander Schleicher
GmbH & Co.

i.A. 
(T. Mörsel)

This Technical Note bases on a change, which was approved by EASA under the major change approval EASA 10075810.