AUTOGYRO GMBH CAVALON Model Guide

The AUTOGYRO GMBH CAVALON is a piston-powered gyroplane built by AutoGyro GmbH of Hildesheim, Germany. Registry data for the Cavalon family shows up to 2 passengers, up to 600 kg MTOW, up to 90 kt cruise and up to 500 nm range. The documents reviewed cover the pre-rotation supplement, a rotor head service bulletin and a maintenance manual written for the MTOsport.

KEY TAKEAWAYS

- Family-level registry maxima: 2 passengers, 600 kg MTOW, 90 kt cruise, 500 nm range.
- Gearbox from serial number V00036 on, or retrofitted, changes pre-rotation; a black OVERDRIVE button marks it.
- Rotor head III needs a pre-flight check of the side plate to roll link bracket weld.
- The maintenance manual supplied is for the MTOsport, not the Cavalon, so ask for Cavalon-specific documents.

PRE-ROTATION GEARBOX AND ENGINE LIMITS

A new 90-degree gearbox is factory fitted from serial number V00036 on, or can be retrofitted with the pneumatic clutch. Pneumatic clutch III has a black OVERDRIVE button; the older version has a red one. Limits for it: maximum engine speed 5800 RPM, 5 minute take-off power 5500-5800 RPM, maximum continuous 1400-5500 RPM, recommended pre-rotation clutch speed 2100 RPM.

ROTOR HEAD III WELD INSPECTION

Service Bulletin AG-SB-2022-09-B-ENR2 (effective 07.10.2022, category B recommended) covers all Cavalon and Calidus with Rotor head III. A few first-generation bridge roll linkages had a weld crack. Inspect both sides of the bracket at every pre-flight. Replacement takes about 1.0 hour, and AutoGyro covers the part cost. The Cavalon part is 45966 (22.5 size).

MAINTENANCE AND DOCUMENTATION

The maintenance manual on file is written for the MTOsport and mentions the Cavalon only in trademark and patent text. It describes four maintenance levels: pilot checks, line, heavy and specialized. Manuals are only valid in their current version, so confirm the latest revision with AutoGyro.

SPECIFICATIONS

Max Passengers Family	2
Max Mtow Kg Family	600

PERFORMANCE

Max Cruise Speed Kt Family	90
Max Range Nm Family	500

SAFETY NOTES

- Check the rotor head weld (side plate to roll link bracket) at every pre-flight. If cracked, replace the part.
- Do not exceed 5800 RPM maximum engine speed. Take-off power is limited to 5 minutes (5500-5800 RPM).
- Quote the service bulletin reference, gyro serial number and engine serial number on parts orders; the old part must go back to AutoGyro.

AI-aggregated guide for the AUTOGYRO GMBH CAVALON · sources: Flight and Operation Manual for Gyroplane Cavalon (#100439) · Manufacturer Maintenance Manual (#100440) · Inspection of Rotor head (#100721) · generated 2026-10-19 · Reference only, not for flight. Check the original documents before relying on this guide.