

Scheibe SF-25C Falke 2000 Model Guide

The Scheibe SF-25C Falke 2000 is a two-seat, side-by-side touring motorglider. The flight manual describes a Rotax 912 S 100 hp engine with a fixed-pitch, two-blade wooden propeller (manual edition 2009). It is approved for daytime VFR only. Registry data for the wider SF 25 family shows up to 97 kt cruise, 370 nm range and 17000 ft ceiling.

KEY TAKEAWAYS

- Seats two adults side by side. The manual gives max takeoff weight 690 kg, empty weight about 450 kg and useful load about 240 kg including fuel.
- Daytime VFR only. No IFR, icing, aerobatics, spinning or flight in cloud.
- Rotax 912 S: 5800 rpm max (5 min), 5500 rpm continuous. Oil at least 50°C before takeoff, 130°C max.
- Check compliance with Service Bulletin 653-47/2 (control stick bearings) on the serial numbers it lists.

LIMITS, SPEEDS AND FUEL

Never exceed 190 km/h (red line). Maneuvering and rough-air maximum is 160 km/h. The green arc is 80 to 160 km/h. Best climb is 95 km/h, and minimum final approach speed at max weight is 90 km/h. The tank holds 80 L, 78 usable. Unleaded EN 228 super plus is preferred; AVGAS 100LL only if it is unavailable. Baggage maximum is 10 kg.

CONFIGURATIONS VARY BY AIRFRAME

The manual supplement lists options: max takeoff weight 650, 610 or 690 kg; tanks of 44, 55 or 80 L; folding or fixed wings; tailwheel or tricycle gear. It also names a Limbach L 2000 EA engine and two propeller types. The manual is for serial 44676. Confirm the exact configuration and weights of the aircraft you inspect.

WHAT TO CHECK BEFORE BUYING

Use the manual's daily inspection as a guide. Check the wing attach pins and safety pins, control stick play, pitot drain, tailwheel bearings, canopy emergency release, engine mounts, exhaust and hoses for leaks, and coolant and oil levels. The fuel cap must be the original vented one. Test the electrics: generator breaker 20 A, battery breaker 25 A.

SPECIFICATIONS

Engine Power Hp	100
Max Takeoff Weight Kg	690
Empty Weight Kg	450

WEIGHT & BALANCE

Max Takeoff Weight Kg	690
Empty Weight Kg	450
Useful Load Kg	240
Baggage Max Kg	10

SAFETY NOTES

- Never turn the propeller backwards. Contact with a spinning propeller is almost always fatal.
- Service Bulletin 653-47/2 (22 Feb 2000): the GE 8 E control stick slide bearings wear quickly and are no longer obtainable. Rework must be done by the manufacturer or an authorized organisation.
- The manual has a section on flying with wet wings and a warning label on the panel. Read it before flying in rain or wet conditions.