

EVEKTOR EV-97R Eurostar Model Guide

The EVEKTOR EV-97R Eurostar is a two-seat, all-metal, low-wing microlight with a fixed tricycle undercarriage and a steerable nose wheel. The sources are the EV-97 teamEurostar UK handbook, a club checklist and a mandatory bulletin. The aircraft is powered by a Rotax 912 (80 hp) and is limited to non-aerobatic daytime VFR.

KEY TAKEAWAYS

- Two seats, 450 kg (992 lbs) maximum take-off weight and a 15 kg baggage limit, so weigh the load carefully.
- Rotax 912 UL, 80 hp for take-off (5 minutes maximum). It is not a certified aircraft engine.
- Fuel tank holds 65 litres. Unleaded EN228 car fuel (RON 90 minimum) is standard; use AVGAS 100LL only if nothing else is available.
- Check the engine-mount bolt bulletin EV 97-042a SR R1 has been done and logged.

LOADING AND PERFORMANCE

Maximum take-off and landing weight is 450 kg. Maximum empty weight is 268 kg, and the checklist quotes 182 kg useful load. The club checklist gives a standard take-off of 189 m (364 m over a 50 ft obstacle) and a landing of 273 m (676 m over 50 ft). Long wet grass adds 30% to the take-off roll.

ENGINE AND FUEL

Rotax 912 UL: 80 hp for 5 minutes, 75 hp continuous, 71 hp cruise. Oil must be automotive oil with gear additives (API SF or SG), not aircraft oil. Oil temperature must be at least 50 °C before take-off. A yellow lamp shows an 11 litre fuel reserve. Unusable fuel is 2.9 litres.

WHAT TO CHECK WHEN BUYING

Look for the logbook entry showing the engine-mount bolts were replaced under bulletin EV 97-042a SR R1. Check that the placards are readable and the tyre pressures are correct (nose 23 psi, main 26 psi). Ask for the actual empty weight from handbook section 6 and the engine records.

SPECIFICATIONS

Seats	2
Engine Power Hp	80
Wing Span Ft	26.57
Fuselage Length Ft	19.62
Fuselage Height Ft	7.67
Fuel Tank Volume Litres	65
Max Baggage Weight Lbs	33
Nose Wheel Diameter In	14

PERFORMANCE

Takeoff Power Hp	80
Max Continuous Power Hp	75
Cruise Power Hp	71
Takeoff Distance M	189
Takeoff Distance 50ft Obstacle M	364
Landing Distance M	273
Landing Distance 50ft Obstacle M	676

V-SPEEDS

Vne Mph	146
Va Mph	100
Vno Mph	118
Vfe Mph	77
Stall No Flaps Power Off Mph	44
Stall Flaps Extended Mph	36
Approach With Flaps Mph	60
Approach Flapless Mph	70

WEIGHT & BALANCE

Max Takeoff Weight Lbs	992
Max Landing Weight Lbs	992
Max Empty Weight Lbs	591
Max Fuel Weight Lbs	104
Max Baggage Weight Lbs	33
Min Crew Weight Lbs	121

SAFETY NOTES

- The handbook warns that a power failure can occur at any time. Never fly where a safe landing is not possible.
- Aerobatics and intentional spins are prohibited. IFR and icing conditions are prohibited. Daytime VFR only.
- Mandatory safety bulletin: replace the engine-mount bolts and torque them to 40 Nm. It was due within 30 days of issue or at the next scheduled inspection.