European Aviation Safety Agency

EASA

TYPE-CERTIFICATE
DATA SHEET

EV-97 VLA

Type Certificate Holder:
EVEKTOR, spol. s r.o.

EVEKTOR, spol. s r.o.
Kunovice-letiste
686 04 Kunovice
CZECH REPUBLIC

Manufacturer:
EVEKTOR-AEROTECHNIK a.s.

EVEKTOR-AEROTECHNIK a.s
Leteka 1384
686 04 Kunovice
CZECH REPUBLIC

For variants: EV-97 VLA

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(Reserved)
SECTION 1: EV-97 VLA

I. General

Data Sheet No.: EASA.A.029 Issue: 01 Date: February 4, 2005

1. a) Type: EV-97 VLA
   b) Variant: EV-97 VLA

2. Airworthiness Category: Very Light Aeroplane

3. Type Certificate Holder: EVEKTO, spol. s r.o.
   Kunovice-letiste
   686 04 Kunovice
   CZECH REPUBLIC

4. Manufacturer: EVEKTO-AEROTECHNIK a.s.
   Letecka 1384
   686 04 Kunovice
   CZECH REPUBLIC

5. Certification Application Date: April 6, 1999

6. CAA CZ Certification Date: January 13, 2003

7. The EASA Type Certificate replaces The CAA CZ Type Certificate No. 03-01

II. Certification Basis

1. Reference Date for determining the applicable requirements: April 6, 1999

2. (Reserved)

3. (Reserved)

4. Certification Basis: As defined in CRI A-01, latest Issue

5. Airworthiness Requirements: JAR-VLA, issued April 26, 1990, including amendments VLA/91/1, dated October 22, 1991 and VLA/92/1, dated January 1, 1992

6. Requirements elected to comply: None

7. EASA Special Conditions: None

8. EASA Exemptions: None

9. EASA Equivalent Safety Findings: None

10. EASA Environmental Standards:
    Noise: ICAO Annex 16, Volume I, Chapter 10, FAR Part 36, Amdt. 36-22, Appendix G
    Emission: N/A
### III. Technical Characteristics and Operational Limitations

1. **Type Design Definition:** Airplane EV-97 VLA  G0 00-00 01

2. **Description:**
   The EV-97 VLA is a two-seater, all metal, cantilever low-wing monoplane with two side-by-side seats, fixed tricycle landing gear, tractor propeller.

3. **Equipment:**
   The minimum equipment is listed in approved EV-97 VLA Flight Manual, No. EVLA 001.00-AS.

4. **Dimensions:**
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<th>8.100 m</th>
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<tr>
<td>Wing Span</td>
<td>8.100 m</td>
</tr>
<tr>
<td>Total Length</td>
<td>5.980 m</td>
</tr>
<tr>
<td>Maximum Height</td>
<td>2.335 m</td>
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<tr>
<td>Wing Area</td>
<td>9.790 m²</td>
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5. **Engine/s:**
   - No. 1
   - **Model:** Rotax 912 S
   - **Type Certificate:** TW9 – ACG issued by AUSTRO CONTROL (Austria)

   **5.1 Engine Limits:**
   - Maximum Take off Power: 73.5 kW/5800 RPM (max. 5 min.)
   - Maximum Continuous Power: 69 kW/5500 RPM

6. **Propeller/s:**
   - No. 1
   - **Model:** V 230E
   - **Type Certificate:** CAA CZ 96-04
   - **Number of blades:** 2
   - **Diameter:** 1625 mm
   - **Sense of Rotation:** clockwise

8. **Fluids:**
   - **8.1 Fuel:** EUROSUPER RON unleaded according to EN 228 or DIN 51607 or AVGAS 100 LL.
   - **8.2 Oil:** Automotive oil, classification SF, SG, according to API.
   - **8.3 Coolant:** Combinational cooling: water and air

9. **Fluid capacities:**
   - **9.1 Fuel:**
     - Total: 67 liters
     - Usable: 64.5 liters
   - **9.2 Oil:**
     - Maximum: 3.0 liters
     - Minimum: 2.0 liters

10. **Air Speeds:**
    - **Design Manoeuvring Speed V_A:** 200 km/h IAS
Maximum Flap Extended Speed $V_{FE}$
- Flaps 15° $V_{FE15}$ 145 km/h IAS
- Flaps 40° $V_{FE40}$ 135 km/h IAS

Maximum structural cruising speed $V_{NO}$ 205 km/h IAS

Never exceed speed $V_{NE}$ 270 km/h IAS

11. (Reserved)

12. Operational:
   - VFR Day
   - Flight into expected or actual icing conditions is prohibited.

13. Maximum Masses:
   - Take-off 575 kg
   - Empty Weight 340 kg ± 3%

14. Centre of Gravity Range:
   - 13.8 - 32% MAC
   - [MAC is 1230mm; 0% MAC is at 20mm aft of the reference datum]

15. Datum:
   - The reference datum is the leading edge of the wing

16. (Reserved)

17. Levelling Means:
   - Longitudinal axis: leveling point No. 1L and 2L
   - Lateral axis: leveling point No. 3L and 3L

18. Minimum Flight Crew: 1 (Pilot)

19. Maximum Passenger Seating Capacity: 1

20. (Reserved)

21. Baggage / Cargo Compartments
   - Max. 15 kg aft of the seat backrest bulkhead.

22. Wheels and Tyres
   - Main wheel: G5 06-27 01 and G5 06-27 02
   - Tyres and tubes: Goodyear 15x6.00-6 6PR (P/N 156E61-3)
   - Nose wheel: G5 00-31 01
   - Tyre and tube: Goodyear 15x6.00-6 6PR (P/N 156E61-3)

IV. Operating and Service Instructions

Airplane Flight Manual (AFM) EVLA 001.00-AS
Airplane Maintenance Manual (AMM) (incl. Airworthiness Limitations) EVLA 004.01-AS
Illustrated Parts Catalogue: EVLA 005.01-AS
Maintenance Manual for ROTAX Engine Type 912 Series: 899 372
V. Notes

None.
SECTION 2: Changes/Variants

(Reserved)