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Foto: F. Bovi - VOLARE®



GENERAL

The REDBIRD is a tractor single engine low wing monoplane airplane, available in different configurations (CS-LSA and UL versions).

The forward tricycle landing gear is available in both retractable and fixed configuration.

The airplane is capable to accommodate two seats including pilot, with a maximum take-off weight of 600 kg. The maximum takeoff weight is 472,5 kg (including ballistic parachute) for UL versions.

The airplane is equipped with a Rotax 912 ULS/S engine and a two blade MT-Propeller MTV-1 propeller.

MATERIALS

The A/C structure, primary and secondary is manufactured in pre-preg, autoclave, carbon fibre composite.

The metallic mechanical parts are made from chromium-plated 4130 steel and 2024/7075 aluminium alloys to ensure strength without sacrificing performance.

CABIN COMFORT

One of the major strong points of the REDBIRD is the wide and ergonomic cabin.

Access is easy via the large canopy that allows a good pilot visibility in the frontal and lateral direction.

STANDARD EQUIPMENT

The following equipment come standard for each REDBIRD version:

- EFIS system (GRT Avionics series Sport)
 - SL30 COM/NAV
 - Transponder GTX 328
 - Emergency Location Transmitter (ELT)
 - Analogue altimeter, airspeed and magnetic direction indicators
 - Electronic Flap controller/indicator
 - Electric pitch, rudder and aileron trim controllers and indicators
 - Electric fuel pump
 - Fuel Quantity indicator
 - 12 Volt, 18 Amp battery
 - 14 Volt, 42 Amp alternator
 - Ammeter
 - Stall warning system
 - Annunciation lights
 - Strobe and position lights
 - Landing light
 - First aid kit
 - Ballistic parachute*
- *standard for UL version only

SPECIFICATIONS

GENERAL

Dimension Span (overall) 8,53 m (27 ft 12 in)
 Length (overall) 7,30 m (23 ft 11 in)
 Height approx (overall) 2,40 m (7 ft 10 in)

WING

Area 10 m² (107.6 sqft)

FUSELAGE

Cabin Volume 1,9 m³ (67 cu ft)
 Luggage Volume 0,3 m³ (10.6 cu ft)

ENGINE

Engine Rotax 912S2
 Take-Off power 100 HP

PROPELLER

Manufacturer MT
 Type Electrically controlled variable pitch propeller
 Number of Blades 2

DESIGN WEIGHT AND LOADING

Design MTOW 600 kg / 1323 lb
 Operating MTOW 600 kg / 1323 lb
 (472.5 kg / 1042 lb for UL version)
 Maximum baggage load 30 kg / 66 lb
 Manoeuvring Load Factor 4,4/-2,2

PERFORMANCE DATA

SPEED

Cruising speed 120 Kts / 222 km/h
 (75% MCP, 5000 ft) (117 Kts / 217 km/h for UL version)
 Max Level speed 130 kts / 241 km/h
 (MCP, sea level) (125 kts / 231 km/h for UL version)

MAX RATE OF CLIMB

@ sea level, MTOW 1100 fpm / 5,6 m/s
 (1400 fpm / 7,1 m/s for UL version)
 V_y 80 kts (148 km/h)
 V_x 65 kts (120 km/h)

MAXIMUM OPERATING ALTITUDE

10000 ft

STALL SPEED, MTOW

Flaps LDG (40°) 42 kts / 78 km/h
 (35 kts / 65 km/h for UL version)

TAKE-OFF DISTANCE

Ground Run 150 m / 492 ft
 (100 m / 328 ft for UL version)
 Total Distance 350 m / 1148 ft
 (220 m / 722 ft for UL version)

LANDING DISTANCE

Ground Run 150 m / 492 ft
 (100 m / 328 ft for UL version)
 Total Distance 400 m / 1312 ft
 (300 m / 984 ft for UL version)

Fuel capacity 110 l
 Fuel consumption 18 l/hr
 (@75%MCP)

