

Pelican Sport AULA Technical descriptive



Ballard Sport Aircraft Ltd. offers to the Canadian ultralight market a Ready to Fly model of the **Pelican Sport** that is factory assembled. The **Pelican Sport AULA** is a two places single-engine, high wing airplane of conventional configuration consisting of a composite fuselage and metal wings. It is normally equipped with a fixed tricycle landing gear.



The **Pelican Sport AULA** model was designed according to the DS-10141 Canadian design standard for Advanced Ultra Light Aircraft. Our Ready To Fly aeroplanes are 100% manufactured in our factory located in the Canada.

Here are the product characteristics:

Common platform to all Pelican Sport models

- The fuselage is made of a vacuum molded composite structure consisting of a S2-glass vinyl ester resin laminate with a rigid PVC foam core.
- A Warp Drive carbon fibre three blade propeller with ground adjustable pitch and specifically cut for optimum performance on our models. Warp Drive aluminium spinner comes standard.
- Two seats, side by side, foam seat cushions, dual sticks, dual pedals, throttle and choke knobs are located at centre console. Three-point seat belts - shoulder harness system for both seats.
- Differential hydraulic brakes activated by the pedals.
- Ailerons are deflected through a bell crank/push-rod mechanism mounted on ball bearings. A torque tube connected to a mechanical lever in the console operates flaps. Mechanically operated by a Johnson bar - type lever located in the console. They offer 5 positions from 0° to 45°. The ailerons deflect 12° with full flaps. Rudder and elevators are cable operated. The elevator trim is mechanically operated. Fixed trims are used for the rudder and the ailerons.
- One elevator trim mechanically operated by a lever on the console. Rudder and ailerons use fixed trim tabs.
- Gull-wing bubbled doors.
- Polycarbonate windshield, skylights, doors and baggage compartment windows.
- The baggage compartment behind the seats has a capacity of 50 lbs. (23 kg) without a ballistic recovery chute and 20 lbs (9 kg) with a ballistic chute.
- The all-metal wing is a single-strut, single spar construction, covered with aluminium skins. Wing tips are made of molded fibreglass. The ailerons and flaps are covered with aluminium skins.
- The fin and the cantilever stabilizer are all aluminium construction, covered with aluminium skins. Rudder and elevators are made of aluminium structures covered with aluminium skins as well. Elevator and rudder have molded fibreglass tips.
- Ready to Fly **Pelican Sport AULA** aircraft is motorized by BRP Rotax 912 series aviation engines. Type ULS, 4 cylinders, 4 strokes featuring opposed cylinders, dual electronic ignition, dry sump with oil pump, liquid cooled heads, and an integrated gearbox. They are equipped with a 12V/250 Watt generator, two Bing 32 mm carburetors, a 0,6



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KW electric starter and a mechanical fuel pump. The Rotax 912 ULS develops 100 HP at 5 800 RPM and 92 HP at 5 500 RPM.

- Fixed tricycle gear with steerable nose wheel.
- White colour Acrylic paint.
- Vinyl registration letters are installed at our factory.
- Cabin ventilation.
- Light Flight Instruments: Airspeed Indicator, Altimeter, Magnetic Compass, Vertical Speed Indicator and Slip Indicator.
- Light Engine Instruments: Hour Meter, Engine Tachometer, Cylinder Head Temperature, Oil Pressure, Oil Temperature, Fuel Indicators.
- Light Avionics: Icom IC-A210 COMM Radio with dual headset receptacles.



Available options:

- Leather covered seats and luxury interiors.
- Cabin heat & ventilation system.
- Wheel pants.
- Strobe and navigation lights system.
- Ballistic recovery chute.
- Light colour paint.
- Decorative vinyl graphics.
- Optional Flight Instruments: Turn Coordinator.
- Optional EFIS, EMS: Dynon D-100 EFIS, Dynon D-180 FlightDek.
- Optional Engine Instruments: Voltmeter.
- Optional Avionics: FlightTech ITC-402P Intercom, Garmin 320A Mode C Transponder, Garmin AERA 500 GPS, AmeriKing AK-451 ELT.

