

Savannah S





Founded by the late John Waterson in 2006 on the Waterson's Etna Farm just outside East London. John started off as an amateur builder but the keen market interest shown in Savannah soon pushed an amateur building enterprise into a CAA approved production facility producing aircraft for South Africa, Central African Republic, DRC, Chad, Benin, Tanzania, Zambia, Malawi, Mozambique, Namibia, Botswana, Swaziland and Zimbabwe. John Waterson was a consummate professional, a passionate aviator and a great friend to many in the aviation community.

The production-built surveillance solution.



The Savannah S

- * The Savannah has CAA Type acceptance in South Africa and has passed the stringent UK BCARS regulations.
- * All metal construction- built for Africa.
- * 136 Savannah aircraft in Southern Africa and over 2500 sold worldwide.
- * The very short take-off and landing capabilities as well as the ability to fly low and slow make the Savannah aircraft a popular choice for bush pilots.
- * The Savannah, has in the past, won the Best in Class for both the Kit and Ready to Fly categories which was judged on best value for money.
- * Unsurpassed build quality in a CAA approved production facility.
- * Highly experienced build staff driven by passion for aviation.

STRUCTURE

- * The Savannah Aircraft model 'S' is a monoplane type, with two side-by-side seats, fitted with a high wing supported by struts.
- * All metal structure with load resisting panels.
- * High lift NACA 650-18 modified airfoil with Junkers type flaperon (aileron + flap) with manual or electrical (optional) control.
- * Trim with electrical control on the elevator and with manual control on the rudder.
- * Wing fuel tanks with 36 litres capacity in each wing. The tanks are connected and flow into a collection sump placed in the fuselage. A single drain valve at the bottom of the fuselage is provided for fuel sampling. Optional long range tanks provide additional 72 litres, taking fuel to 152 litres (8.5 hrs endurance).



COCKPIT

- * The two large removable lateral doors allow easy independent access to the cabin. Ideal for aerial photography.
- * The cockpit is insulated, has upholstery covered seats and a fitted carpet.
- * Doors are fully transparent allowing good visibility.
- * The cabin arrangement features two canvas or upholstery covered side-by-side seats.
- * The luggage compartment situated behind the seats is accessible during the flight and can hold up to 45 lbs (20 kilograms).
- * The cabin's ventilation is provided by rotating air scoops on the doors. A dynamic air scoop intended to extract the cabin air is fitted at the top of the baggage compartment.
- * Heating system can be orientated on feet or on windshield with control on the dashboard.
- * Cabin light.



STANDARD PANEL



GPS PANEL



iEfis PANEL (MGL 8.5 inch)

STANDARD ANALOGUE INSTRUMENTS

- * Air speed indicator, 3 1/8" with coloured arcs.
- * Altimeter, 3 1/8" with setting window.
- * Vertical speed indicator, 3 1/8"
- * Magnetic Compass
- * Slip and skid indicator
- * Tachometer
- * Fuel pressure
- * Oil pressure
- * Oil temperature
- * Hour meter
- * Voltmeter
- * External temperature indicator + airbox (for Rotax 912 ULS only)
- * Water temperature for front left engine head.
- * Water temperature for back right engine head.

CUSTOM PANEL

Additional panel mount Garmin Aera 660 or MGL iEfis 8.5 inch with full engine monitoring, moving maps, digital 6-pack and Auto pilot comp.



LANDING GEAR

- * The main landing gear is made up of a single piece aluminium alloy leaf leg.
- * The nose landing gear (in tricycle configuration) is fitted with a telescopic elastic cord shock absorber and is steerable during taxiing. (Tail-dragger option is available)
- * The Savannah is fitted with disc brakes, with independent left/right toe brakes for the pilot and co-pilot (optional).

SPECIFICATIONS @ 450 kg

- * Length - 6.60 m
- * Vmax (5500 rpm) 115 mph
- * Height - 2.58 m
- * Vcruise (5000 rpm) - 100 mph
- * Wing Span - 9.00m
- * Vso (Stall - Flaps extended) - 30 mph
- * Wing Cord - 1.43m
- * Vne - 143 mph
- * Wing Surface Area - 12.84 m²
- * Climb Rate - 1100 ft/min
- * Aspect Ratio - 6.3:1
- * Glide Ratio - 11:1
- * Cabin Width - 1.09 m
- * Consumption (5000 rpm) - 18 l/hr
- * Empty Mass - 300 kg
- * Useful mass 300 kg
- * Endurance - 4.5hr
(Long range tanks 8h)
- * MTOW - 600 kg
- * Take off distance - 35m MSL
- * Landing distance 50m MSL
- * Range (to empty) - 470 miles
(Long range tanks 900 miles)
- * Fuel Capacity - 80 litres
- * Long range tank option - 152 litres
- * Max operating Altitude - 14000 ft
- * Structural load - (tested) - +6g / -4g
- * Cross wind limitation - 30 mph



SPECIFICATIONS - READY TO FLY

- * **PROPELLER** - 3 blade Durandal E-PROP composite with built in leading edge protection - 2000hrs TBO.
- * **ENGINE** - Rotax 912 ULS 100 hp with mechanical and backup electric fuel pumps and dual ignition (or 912 iS Fuel injected engine).
- * **STANDARD INSTRUMENT PANEL** - Airspeed indicator, Vertical speed indicator, magnetic compass, skid and slip indicator, tachometer, fuel pressure, oil pressure, oil temperature, hour meter, volt meter, external and airbox temperature, 2 x water temperature for left and right cylinder heads, 2 x throttle control, choke and carb heat.
- * **RADIO** - Dittle KRT2
- * **RUBBER BOOTS FOR PANEL SWITCHES.**
- * **GLOVE BOX AND AUX POWER POINT.**
- * **CONTROL COLUMN** - Centre Y stick with Ray Allen G101 stick grip (PTT button only)
- * **RUDDER PEDALS** - Both sides with toe brakes on pilot side only.
- * **FLAP CONTROL** - Manual with half and full flap settings.
- * **ELEVATOR TRIM** - Electric elevator trim operated via toggle on panel.
- * **THROTTLE FRICTION** - Wicks A820
- * **INTERIOR** - Charcoal upholstered with black floor carpets and black upholstered high-density foam seats.
- * **EXTERIOR AND INTERIOR PRIME AND PAINT** - Spray painted with exterior primer, painted with a standard two-tone design.
- * **SEAT BELTS** - Lap and shoulder harness both seats.
- * **LUGGAGE COMPARTMENT** - Extended luggage compartment behind seats with 20 kg capacity.
- * **BAGGAGE NET** - Keeps bags securely in the baggage compartment.
- * **DOORS** - Gull wing type with snap vents in the windows.
- * **TYRES & TUBES** - Air Track Tyre 6.00-6 6 PR Certified.
- * **FUEL TANKS** - 36 L tank in each wing with locking caps with 8 L accumulator behind the seat for total of 80 L (4.5 hrs endurance). Long range 8.5 hrs
- * **ROOF** - Aluminium.
- * **LIGHTS** - LED landing light on left wing and interior cabin light.
- * **DECAL** - Standard vinyl registration markings and Savannah-S on wing tips.

ENGINE AND PROP

- * Removable engine cowling for easy engine bay inspection.
- * Upper cowling oil inspection door.
- * Rotax 912 ULS - 100 Hp with ultra-light E-Prop 3 blade, carbon composite with Titanium leading edge protection.
- * Fibre glass spinner 260 mm diameter (carbon fibre optional).
- * Reduced engine vibration using the new ring engine mount.
- * Fuel system incorporates a standby electric pump.

SPECIFICATIONS - NOT INCLUDED IN STANDARD BUILD

- * Transponder + antenna
- UPGRADES/OPTIONAL EXTRAS**
- * MGL Electronic Flight Information System
- * Auto Pilot servos
- * Dual Brakes
- * Park Brake
- * Dual Controls
- * G205 Stick grips (5 switch)
- * Electric flaps.
- * Custom paint and decals
- * Long-range fuel tanks
- * Dual LED landing lights for night operation.
- * Wing tip strobes
- * Tail strobe
- * Standard panel with Forward Windows.
- * Centre console for ground radio.



ENGINE DESCRIPTION AND PERFORMANCE

DESCRIPTION

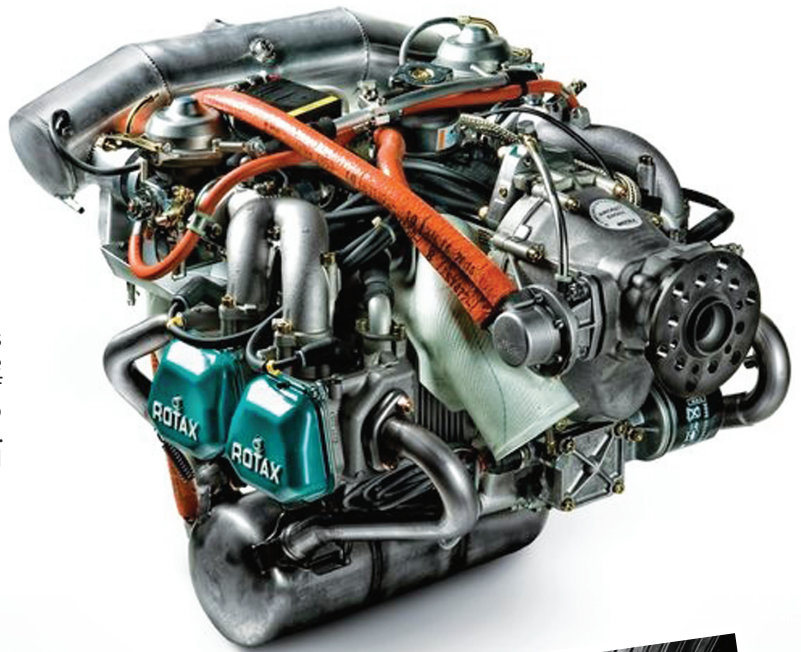
- * 4-cylinder.
- * 4-stroke liquid/air-cooled engine with opposed cylinders.
- * Dry sump forced lubrication with separate oil tank, automatic adjustment by hydraulic valve tappet.
- * 2 carburetors.
- * Mechanical fuel pump.
- * Dual-electronic ignition.
- * Electric starter.
- * Propeller speed reduction unit.
- * Air intake system.

FACTS

In comparison to the 80hp version of the Rotax 912 series the 100 hp product line offers more power while keeping the weight. This engine series offers a time between overhauls of 2.000 hrs and the best power to weight ratio in its class - no surprise that this engine is the best selling 4-stroke engine. This series is available as non-certified (Rotax 912 ULS) and certified engine (Rotax 912 S) according to FAR33.

PERFORMANCE

- * 73.5 Kw @ 5800rpm
- * Torque - 128 nm @ 5100 rpm
- * Max Rpm - 5800
- * Bore - 81 mm
- * Stroke - 61 mm
- * Displacement - 1351 cm³
- * Weight - 69.4 kg-Engine with prop speed reduction unit,
- * Overload clutch, Exhaust system, external alternator, engine suspension frame, air guide hood, and oil cooler
- * Fuel - min. MON 85 RON 95* min. AKI



The
production-built
surveillance
solution.



Manufacturing organisation: M716

CONTACT DETAILS

- * **Robertsvale Airfield**
Etna Farms, Gonubie Broads,
East London, 5259
- * Tel: +27 66 392 6010
- * www.savannah-aircraft.co.za
- * dave@savannah-aircraft.co.za
- * Latitude: S 32° 55.4'
Longitude: E 27° 59.4'

