

TOP PERFORMANCE, EXCELLED. STEMME TWIN VOYAGER S12. TWO AIRCRAFT UNITED IN ONE UNBEATABLY PRECISE MACHINE.



ENGINE

ROTAX 914 F2/S1 TURBO

Maximum take-off power (MTOP): 84.5kW

Maximum continuous power (MCP): 73,4kW

Time between overhaul (TBO): 2,000 hrs or 15 years

Fuel grade: MOGAS (min. RON95), AVGAS UL91 or AVGAS 100LL

DIMENSIONS

Wingspan: 25m (82ft), optional 21,7m (71.2ft)

Folded wingspan: 11,4m (37.4ft)

Wing area: 19,95m² (214.7ft²), optional 18,6m (200.2ft²)

Length: 8,42m (27.6ft)

Height: 1,75m (5.74ft)

WEIGHTS & CAPACITIES

Maximum take off mass (MTOM): 900kg (1,984lb)

Tank capacity: 2 x 60 Liter (15.85 US gal) wing tanks and 6 Liter (1.58 US gal) feeder tank

PROPELLER

STEMME FOLDABLE - two blade prop with 2-position variable pitch (T/O and Cruise)

Mechanical propeller brake and centering mechanism

Manual operated Nose-cone and cowl flaps

PERFORMANCE

Maximum speed (Vne): 270km/h (146kt)

Maximum cruise speed @MSL: 225km/h (121kt)*

Maximum cruise speed @FL100: 260km/h (140kt)*

Maximum range in Eco-cruise: up to 1.759km (950nm)*

Best climb rate @MTOM: 3,28m/s (645ft/min)

Glide ratio @106km/h (57kt) 1:53*

Load factors (Air-brakes in, Flaps 0° to -10°) < Va: +5.3g/-2.65g

Take off run: 212 m (695 ft)

Take off distance over 15m (50ft) height: 401m (1,315ft)

CONTROLS & SYSTEMS

Flight controls on pilot and copilot side

Aileron and elevator through push rods

Rudder and Tail wheel through cable

Automatic connector for elevator

Aileron-flap mix (flaperon), highly differentiated

Hydraulic disc brake with parking brake

Electric elevator trim

Adjustabele rudder pedals

Emergency canopy jettison with roeger hook

AIRFRAME

Carbon-, glass- and aramid fiber reinforced composite structure

Hybrid fiber composite safety cockpit

Side-by-side Cockpit

Green tinted canopy with UV-protection

Lockable sliding windows with build in vents

7-part shoulder wing consists of: center wing, outer wings, wing extensions and winglets

Wing folding system for easy ground handling and taxiing

Integrated fuel tanks in center wing

Removeable tie down rings

Modular fuselage with steel frame center section carrying the engine, wing and undercarriage

Electromechanical operated retractable undercarriage with visual and acoustic indicator

Steerable tailwheel with aerodynamic faring

Tail water ballast tank for up to 15 Liters

Adjustable engine cowl flaps

Luggage compartment for 20kg (44lb) in tail boom

CERTIFICATION CATEGORY

Certificated as "Powered Sailplane" according to EASA CS22

FAA standard airworthiness certificat



AVIONICS

- Dynon D10A EFIS
- Dynon Autopilot
- Garmin aera 660

Fuel Flow computer

LX9070 Soaring computer

LX V8 digital variometer

VHF-COM 8,33khz with integrated Intercom

Transponder Mode-S cl.1 with ADS-B out

VHF antenna integrated in rudder

ADS-B receiver with integrated FLARM

Headset sockets LEMO and PJ

Gooseneck microphone

ELT 406MHz

Magnetic Compass

Airspeed indicator

Altimeter (barometric)

Electric acoustic stall warning

OPTIONAL AVIONIC PACKAGE "SOARING"

Smaller Panel for more Legroom

LX9070 Soaring computer

V80 digital variometer

Dedicated traffic information display

VHF-COM 8,33khz with integrated Intercom

Transponder Mode-S cl.1 with ADS-B out

VHF antenna integrated in rudder

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Headset sockets LEMO and PJ

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Airspeed indicator

Altimeter (barometric)

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Electric acoustic stall warning

ELECTRICS

Two seperate electrical systems, main and engine

Main circuit for the Avionics, powerd by an LiFePO4 battery (19,2Ah) and an external generator

Engine circuit for starting the engine, powerd by an LiFePO4 battery (7,5Ah) and the internal generator

Ground power receptacle for engine start

Solar cells with charge contoller, connected to the main circuit

LED landing light and integrated

LED strobe and navigation lights

ENGINE INSTRUMENTS (ANALOG)

RPM indicator

Cylinder head temperature (left & right)

Oil temperature

Oil pressure

Fuel quantity indicator (left & right)

Ampere- and Voltmeter

Engine fire warning system

Engine hour meter

INTERIOR

Interior in leather, standad color light grey other colors optional

Adjustable backrests, suitable for Parachutes

4 Point seat belts, standard color grey other colors optional

Luggage compartments behind the backrests

Adjustable fresh air vents for Pilot and Copilot

Canopy defog vent

Document compartment between the seats

Storage space in the rear of the cockpit, suitable for 2 oxygen bottles or baggage

