



SAW Revo manufactured by Orange Aircraft

Introduction

The SAW Revo is an unlimited ultra lightweight airplane. Combining advanced aerodynamic technology with the latest in composite construction technologies has resulted in an extreme lightweight aerobatic airplane unlike anything available on the market at this moment.

The plane is designed by Saurenman Aero Works by well known designer Eddie Saurenman whom was awarded the "Curtis Pitts Innovative Aerobatic Design Award" in 2016.

Manufacturing is done at Orange Aircraft by a team of highly trained composite specialist using a state of the art machine park including an autoclave for best quality products.

Pricing

Base price:	\$119.000,-
Optional: Rotax 912 ULS, 100 Hp:	\$3200,-
Carbon composite fuselage and empennage panels: <i>(instead of fabric covering)</i>	\$12.800,-
Smoke system:	\$2.600,-
BRS Parachute system	\$7.800,-
Cabin heat:	\$1.300,-

Airplane specifications

Airframe

Carbon fiber wing
Fuselage assembly, 4130 steel
Steerable, lightweight tail wheel
Main landing gear, AL7075
Single-seat bubble canopy
Titanium firewall

Powerplant and propeller

Rotax 912 UL 80 Hp
3-blade WhirlWind fixed pitch propeller
4-in-1 exhaust system stainless steel exhaust system
Oil cooler system
Electric starter

Cockpit

Manually adj. rudder pedals with differential toe brakes
Composite seat
Hooker safety harness
2 air vents
Baggage compartment behind cockpit

Systems

15A alternator
12V battery
Standard panel equipment
Airspeed indicator (kts)
Altimeter (ft, inHg/hPa)
Mechanical accelerometer
Magnetic compass
Slip and skid indicator

Fuel gauges

CHT/EGT, oil press./oil temp. gauges
VHF
Transponder

Technical data

Dimensions

Overall Length	210.68 inches (17.56 ft.)
Wing Span	235.00 inches (19.58 ft.)
Horizontal Tail Span	87.67 inches (7.30 ft.)
Vertical Tail Span	54.70 inches (4.55 ft.)
Aspect Ratio	5.33
Pilot Seating Position	Semi-Supine "G" Tolerant
MAC	3.67 ft.

Areas

Wing Area	71.95 sq.ft.
Horizontal Tail Area	15.12 sq.ft
Vertical Tail Area	10.60 sq.ft.

Weights

Empty Weight	390 pounds
Gross Weight	750 pound
Wing Loading	10.42 psf (at gross weight)
Wing Loading (minimum)	8.34 psf (minimum flying weight 600#)
Power Loading	9.375#/hp (gross @ 80hp)
	7.500#/hp (gross @ 100hp)
	7.500#/hp (minimum flying weight @ 80hp)
	6.000#/hp (minimum flying weight @ 100hp)
Initial Thrust to Weight	1.13 to 1 (minimum flying weight @ 100hp)
Initial Thrust to Weight	1.42 to 1 (gross @100hp)

Power Plant

Rotax 912	80/100 hp
Fuel Capacity	12.0 gal US
Oil Capacity	3.0 qts
Coolant Capacity	4.4 qts
Propeller	Whirlwind 3 Blade 70 inch diameter
Fuel GPH	4.5 gallons

Performance

Takeoff Roll	300 ft.
Landing Roll	550 ft.
Rate of Climb	1000/1500+ fpm
Cruise	140 mph
Endurance	2.5 hrs (with 30 minute reserve)
Range	350 miles
Stall @ gross	54 mph
Stall @ minimum weight	51 mph
Roll Rate @120 mph	400 degrees/sec
Limit Load factors	(+)8.0 (-)8.0