



The most advanced aircraft in its category

Virus SW 121 features a full CS-LSA EASA type certificate, best equipment and best characteristics in the category, including:

- dual screen glass cockpit
- full featured auto pilot
- high speed and the longest range in category
- full airframe ballistic rescue system
- certified engine running on automotive fuel
- intentional spins approval
- night VFR equipment
- airbrakes for rapid descent

Pipistrel SW 121



towards ecology and green solutions. We produce the most environment friendly aircraft and participate in projects to develop eco-friendly propulsion methods and renewable sources of energy.

Our aircraft have been awarded numerous times for energy efficiency. To produce green aircraft, an environment friendly building is necessary. Pipistrel's facility is energy self-sufficient, has a large solar power plant on the roof, super-standard insulation, air-condition and heating with floor radiation and geo-thermal heat exchangers, geo-thermal accumulation field, co-generation and a heat pump.

By intelligent regulation and inputs optimised according to outside parameters (temperature, light, etc.) and economical factors (price of electric energy) more than 180 tonnes of CO₂ and 95,000 kWh of energy are saved every year.



Pipistrel's philosophy is best summed up in the concept of ECOLUTION, the development (evolution)

PIPISTREL SW 121
EASA CS-LSA
Type Certified

Ivo Boscarol, the General Manager of Pipistrel: *"I set a very high goal to my R&D engineers: to make the best aircraft in the category. I am very proud of them, for they did not only meet my demands – they surpassed them and made a product unparalleled through the history of aviation."*

SW 121 is the result of over 20 years of experience in designing energy-efficient motorplanes which follow the glider philosophy – using shapes so clean that they enable flight with minimum energy and noise as well as lowest fuel consumption – with the performance staying the same or even better. Approved for intentional spins, SW 121 has the best flight characteristics in its category!

Structural perfection is the sum of knowledge acquired in making of 1300 aircraft of the same family of products. Certified and used in harshest conditions all over the world, the SW 121 fulfills expectations of the most demanding customers – the Indian Ministry of Defense, who acquired almost 200 Pipistrel aircraft for the official basic trainer of Indian Air Force, Navy and National Cadet Corps.

Pipistrel has 30 years of experience in design and production of most energy-efficient aircraft in the market.

Wide range of products from gliders to motorplanes; electric, fuel powered and hybrid; one- two- and four-seaters make Pipistrel the aircraft producer with the largest product diversity in the world.

Current sales of more than 200 aircraft of different types yearly to more than 90 countries guarantee that they are ideal for all climates and terrain types. After-sales service in more than 40 countries worldwide is our promise to every customer that they are getting the exact product they need and want.

Pipistrel: the freedom of flight



Glider towing

Allstar PZL Glider, aircraft producer, at the occasion of 8.FAI Junior World Gliding Championship:

"The performance during the towing was outstanding and much better than with typical towing aircraft."

SW 121

Discover the freedom of flight

Most advanced full-composite technology in combination with aerodynamic perfection offers an ideal combination of one aircraft which can be used for many different purposes. Ideally for sport pilots, it offers very quiet and economic flight across distances that cover entire continents. The comfortable interior with seats and pedals adjustable in flight, dual glass cockpit, full autopilot and unrivaled speed allow IFR procedural velocities and offer a new relaxed lifestyle in aviation.



Owners and especially flight schools will appreciate what little maintenance the SW 121 requires. It can land on unprepared terrains, where others cannot even imagine. Everybody values the use of automotive fuel, glider towing and airbrakes, which assure rapid descents over obstacles and short landing distances.

SW 121 is safe!

It features full-airframe and crew rocket parachute rescue system

SW 121 is beautiful!

The entire aircraft is painted with a high quality white acrylic paint, which reflects heat and keeps the cockpit cool

SW 121 is efficient!

It has state-of-the-art full-span flaperons

SW 121 is economic!

It is equipped with a certified constant-speed propeller providing excellent fuel efficiency

SW 121 is versatile!

The high-wing design with large transparent surfaces offers outstanding visibility and is an ideal choice for aerial surveillance

SW 121 is agile!

Fast descent with air brakes enables the shortest towing cycle in CS-LSA category

SW 121 is EASA certified!

- also for intentional spins

SW 121 is simple!

It flies effortlessly, requires very little maintenance and is easy to manoeuvre on ground



SW 121

EASA CS-LSA certified
The most advanced aircraft in its category

PERFORMANCE FIGURES

Vne - Never Exceeded Speed	163 KTAS
Vno - Max Structural Cruising Speed	120 KIAS
Va - Maneuvering Speed	100 KIAS
Vfe- Max Flap Extended Speed	81 KIAS
Vae- Max Airbrakes Extended Speed	100 KIAS
Stall without flaps	50 KCAS
Towing limitations	glider up to 600 kg
Best climb speed	78 KIAS
Max climb rate	1050 ft./min
Take-off distance at SL	160 m
Take-off distance over 15 m obstacle at SL	320 m
Maximum take-off altitude	10,000 ft. MSL
Maximum operating altitude	16,000 ft. MSL
Fuel consumption at 2000 ft. 75% PWR cruise speed	18,4 l/min
Endurance @4000 ft., 65 % power)	5h 33 min (+30 min reserve)
Range (+30 min reserve, @4000 ft., 65% power)	1189 km / 642 nm
Noise level (ICAO Annex 16, Chapter 10)	70,0 dB(A) (measured)
Flight Load Factor Limits	4.0 g+, 2.0 g-
Permitted fuel	AVGAS, MOGAS or car fuel (min RON 95; EN228 Premium or Premium plus with max. 10% Ethanol)

TECHNICAL CHARACTERISTICS

Length	6.45 m, 26.5 ft.
Span	10.70 m, 21.15 ft.
Height	2.06 m, 6.75 ft.
Wing span	10.71 m, 35.10 ft.
Height	1.19 m, 3.90 ft.
Positive flaps	0°, +9°, +20°;
Negative flaps	-5° (reflex)
Design empty weight	349 kg, 768 lb
Max take off weight (MTOW)	600 kg, 1323 lb
Design useful load	251 kg, 522 lbs
Max baggage weight	25 kg, 55 lb
Fuel tanks capacity	2 x 50 l
Useful fuel	2 x 49 l



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