

Virus SW



VIRUS SW 80/100/115/iS IS FOR YOU BECAUSE YOU ARE LOOKING FOR

An airplane with no compromises and with record-breaking achievements: from several flights around-the-world to NASA challenge victories.

Flexibility of different engines and propellers for different needs.

A fully customisable aircraft for your wishes and needs.

DESCRIPTION

The fastest high-wing cruiser!

The Virus SW is the most economic high-speed cruiser and definitely the fastest high-wing aircraft family in its category. Multiple choice of engines defines the variants, ranging from the 80 HP to the 115 HP Turbocharged Rotax 912/914 series engines, including the fuel injected iS. Made from state-of-the-art composite materials, it is lightweight, robust and features an unprecedented useful payload of more than 300 kg (660 lb). Virus SW offers what no competitor is able to offer and has won hearts of people world-wide and is the best seller since its introduction.

• NASA awarded performance

Virus SW is the only light aircraft that combines pure speed with unprecedented fuel economy. More than 1000 units were already sold world-wide, winning the hearts and acclaims of private owners, aviation professionals, training organisations and military instructors alike, just like it won the NASA challenge. Twice! Since the victories at PAW challenge 2007 and NASA GAT centennial challenge 2008, the Virus SW has been further refined and optimised for even better performance.

Virus SW is able to operate from elevations from sea-level up to 15,000 feet, take-off and land from short runways and over obstacles thanks to unique airbrakes, is the quietest light aircraft and has one of the lowest operating costs in its category. Speed, efficiency and ultra-long range are signature for PiPistrel. Virus SW cruises faster, goes much further and flies higher than the competitors, all the while burning less fuel! Imagine flying around it over 200 km/h (124 kts), easily overflying terrain higher than 4500 m (15,000 ft) and covering distances of over 1600 km (800 nmi). With Virus SW you can. All this and much more! The aircraft can be equipped by either the Rotax 912 (80 hp) 912S (90 hp), 912 iS (100 hp) and 914 Turbo (115 hp) powerplants and a large variety of avionics options.

Thanks to its superior aerodynamic efficiency, state-of-the-art composite material structure and lowest fuel consumption figures in the category, the Virus SW is ideal for High speed cross-country flying, surveillance missions, air-initio-, advanced and extreme manoeuvre training, aerial photography and high-mountain operations. Did you know that the Virus SW has the glide ratio of 15:1 and can glide further in case of emergency than most aeroplanes?

• Safety, engineering and worldwide certifications

Virus SW can be called the 300 km/h (180 kt) ultralight/microlight/USA, but it is much more than that! With a high turbulence penetration speed (green arc) and the VNE of 302 km/h (165 kt), you can take advantage of high-speed cruise even in strong turbulence. The cockpit remains quiet and comfortable throughout the flight! The Virus SW has the largest flight safety margins in its category and can be equipped with the total ballistic parachute rescue system, offering a chance of rescue even at maximum speeds and close to the terrain.

• Comfortable and luxurious cabin

The exclusive kevlar-reinforced safety cockpit with luxurious leather interior will keep you both comfortable and safe. You can choose your own color configurations free of charge!

The instrument panel is made of carbon fibre with visible structure and can accommodate a wide selection of modern avionics, including a full glass-cockpit PFD suite with dual-axis GPS-driven autopilot and electric or hydraulic constant-speed propeller control. The panel can be arranged according to your wishes with assistance of our skilled avionics technicians. The Virus SW has the range in excess of 1800 km (1000 nm) and you can take 40 kg (90 lbs) of luggage with you.

Upon special request, the Virus can be adapted for Special Missions, including visual/IR camera gimbal, geospatial survey, trans-oceanic range flights and more.

TECHNICAL CHARACTERISTICS

MODEL	VIRUS 912 SW 80	VIRUS 912 SW 100
ENGINE ROTAX	ROTAX 912 UL	ROTAX 912 ULS
max power (with 2 carb)	80 hp at 5800 rpm	100 hp at 5800 rpm
PROPELLER	Variable pitch	Variable pitch
SIZES		
wing span	10,71 m	10,71 m
length	6,5 m	6,5 m
height	1,85	1,85
wing area	9,81 m ²	9,81 m ²
rudder area	1,1 m ²	1,1 m ²
tail area	1,08 m ²	1,08 m ²
aspect ratio	7,3	7,3
positive flaps	9 deg, 19 deg	9 deg, 19 deg
negative flaps	5 deg	5 deg
center of gravity	25% - 37%	25% - 37%
WEIGHTS		
empty weight	287 kg	289 kg
max take off weight (MTOW)	472,5 kg / 600 kg	472,5 kg / 600 kg
fuel tanks capacity	2 x 50 l	2 x 50 l
useful fuel	2 x 47 l	2 x 47 l
PERFORMANCES		
stall with flaps	64 km/h	64 km/h
stall without flaps	79 km/h	79 km/h
cruising speed (75% power)	246 km/h	273 km/h
max. horizontal speed	264 km/h	283 km/h
VNE	302 km/h	302 km/h
max speed with airbrakes out	205 km/h	205 km/h
max speed with flaps down	130 km/h	130 km/h
manoeuvring speed	174 km/h	174 km/h
best climb speed	140 km/h	140 km/h
max climb rate	6,1 m/sec	8,4 m/sec
best glide ratio speed	78 km/h	78 km/h
best glide	1:7	1:7
take off run	140 m	95 m
take off over 15 m obstacle	225 m	175 m
service ceiling	6200 m	6800 m
45°-45° roll time	1,6 sec	1,6 sec
Fuel consum. at cruise speed	15,6 l/hour	17,8 l/hour
endurance	6,9 hours	5,3 hours
range distance	1680 km	1480 km
max load factor permitted (x1,875)	+4g -3g	+4g -3g
design safety factors & tested	minimum 1,875	minimum 1,875

MODEL	VIRUS 912 SW 100 iS
ENGINE ROTAX	ROTAX 912 iS
max power (with 2 carb)	100 hp at 5800 rpm
PROPELLER	Variable pitch
SIZES	
wing span	10,71 m (35 ft, 1 inch)
length	6,5 m (21 ft, 3 inch)
height	1,85
wing area	9,51 m ² (929 ft ²)
rudder area	1,1 m ²
tail area	1,08 m ²
aspect ratio	7,3
positive flaps	9 deg, 19 deg
negative flaps	5 deg
center of gravity	25% - 37%
WEIGHTS	
empty weight	292 kg
max take off weight (MTOW)	472,5 kg / 600 kg
fuel tanks capacity	2 x 50 l
useful fuel	2 x 47 l
PERFORMANCES	
stall with flaps	64 km/h
stall without flaps	79 km/h
cruising speed (75% power)	273 km/h
max. horizontal speed	283 km/h
VNE	302 km/h
max speed with airbrakes out	205 km/h
max speed with flaps down	130 km/h
manoeuvring speed	174 km/h
best climb speed	140 km/h
max climb rate	8,4 m/sec
best glide ratio speed	78 km/h
best glide	1:7
take off run	95 m
take off over 15 m obstacle	175 m
service ceiling	6800 m
45°-45° roll time	1,6 sec
Fuel consumption at cruise speed	15,5 l/hour
endurance	6,4 hours
range distance	1720 km
max load factor permitted (x1,875)	+4g -3g
design safety factors & tested	minimum 1,875

Note: PiPistrel reserves the right to revise this data sheet whenever occasioned by product improvement, government/authority regulations or other good cause.