

Virus SW 80/100 10-meter wingspan

Nasa Awarded performance

Virus SW 80/100 is the only light aircraft that combines pure speed with unprecedented fuel economy. More than 100 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 PAV challenge 2007 and NASA GAT centennial challenge 2008, the Virus SW 80/100 has been further refined and optimised for even better performance.

Safety, engineering and worldwide certifications

Virus SW 80/100 can be called the 300 km/h (160 kts) ultralight/microlight/LSA, but it is much more than that! With a turbulence penetration speed (green arc) of 250 km/h (135 kts) and the VNE of 302 km/h (163 kts), you can take advantage of high-speed cruise even in strong turbulence.

Model	Virus SW 80	Virus SW 100	Virus SW 100 (600kg)
Engine Rotax	ROTAX 912 UL	ROTAX 912 ULS	ROTAX 912 ULS
Max power	80 hp at 5800 RPM	100 hp at 5800 RPM	100 hp at 5800 RPM
Propeller	Pipistrel VARIO	Variable pitch	Variable pitch
Sizes			
Wing span	10,71 m	10,71 m	10,71 m
Length	6,5 m	6,5 m	6,5 m
Height	1,70 m	1,70 m	1,70 m
Wing area	9,51 m ²	9,51 m ²	9,51 m ²
Aspect ratio	11,3	11,3	11,3
Positive flaps	9 deg, 19 deg	9 deg, 19 deg	9 deg, 19 deg
Negative flaps	5 deg	5 deg	5 deg
Weights			
Empty weigh	287 kg	289 kg	289 kg
Max. take off weight (MTOW)	472.5 kg/550 kg	472.5 kg/550 kg	600 kg
Fuel tanks capacity	2 x 50 l	2 x 50 l	11,3 2 x 50 l
Performance			
Stall with flaps	64 km/h	64 km/h	71 km/h
Stall without flaps	79 km/h	79 km/h	83 km/h
Cruising speed (75% power)	246 km/h	273 km/h	264 km/h
Max. horizontal speed	264 km/h	283 km/h	275 km/h
VNE	302 km/h	302 km/h	302 km/h
Max. speed with airbrakes	205 km/h	205 km/h	205 km/h
Turbulence penetration	250 km/h	250 km/h	250 km/h
Best climb speed	140 km/h	140 km/h	148 km/h
Max. climb rate	6.1 m/s	8.4 m/sec	6.6 m/s
Take off run	140 m	95 m	140 m
Take off over 15 m	11,3 225 m	175 m	230 m
Service ceiling	6200 m	6800 m	5800 m
45° - 45° roll time	1,6 sec	1,6 sec	1,6 s
Fuel flow at 75% cruise	13,6 l/h	17,8 l/hour	17,8 l/hour
Endurance	6,9 h	5,3 h	5,3 h
Range	1650 km	1450 km	1415 km
Load factor permitted	+4g -2g	+4g -2g	+4g -2g
Design safety factors	min. 1.875	min. 1.875	min. 1.875



VIRUS SW



Taurus M
15-meter wingspan
Taurus Electro
15-meter wingspan



Apis/Bee
15-meter wingspan
13,5-meter
New FAI class ready



Sinus 912
15-meter wingspan



Virus 912
12,5-meter wingspan



Virus SW 80/100
10,7-meter wingspan



Panthera
Four seat fast cruiser

The cockpit remains quiet and comfortable throughout the flight! The Virus SW 80/100 has the largest flight safety margins in its category and can be equipped with the total rescue system, deployable even at maximum speeds and close to the terrain. The Virus SW 80/100 meets all ASTM-LSA standards and is accepted as an LSA in the United States of America with a fixed pitch propeller and the MTOW of 550 kg (1210 lbs). In Europe (EASA member states) it is possible to register the Virus SW 100 under the EASA-LSA Permit-to-Fly with a MTOW of 600 kg. At 472.5 kg the Virus SW 80/100 also meets all requirements for

the microlight/ultralight class in Europe - including the stall speed of 64 km/h (34 kts) thanks to the innovative flaperon system.

Comfortable and luxurious cabin
The exclusive kevlar-reinforced safety cockpit with luxurious leather interior will keep you both comfortable and safe. 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 IFR suite with dual-axis GPS-driven autopilot and electric constant-speed propeller control.



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