

Prezes Urzędu Lotnictwa Cywilnego  
*President of the Civil Aviation Authority*

ŚWIADECTWO UZNANIA ZATWIERDZENIA TYPU  
*Type Approval Recognition Certificate*

NUMER: **UL.A.00 – 008/2023**  
Reference:

Niniejsze świadectwo uznania zatwierdzenia typu zaświadcza, że określony typ/model ultralekkiego statku powietrznego został uznany za akceptowalny w Rzeczypospolitej Polskiej zgodnie z obowiązującymi przepisami polskiego lotnictwa cywilnego i pozostaje w mocy przez czas nieokreślony, chyba że zatwierdzenie zostanie zrzeczone, zawieszono lub cofnięte oraz że został wpisany na listę typów zatwierdzonych prowadzoną przez Prezesa Urzędu Lotnictwa Cywilnego, o której mowa w przepisach wydanych na podstawie art. 33 ust. 2 i 4 ustawy – Prawo lotnicze (Dz.U. z 2022 r. poz. 1235, 1715, 1846, 2185 i 2642).

*This Type Approval Recognition Certificate certifies that the ultralight aircraft type/model specified has been found acceptable in Republic of Poland in accordance with the applicable Polish Civil Aviation regulations and shall remain as such for an unlimited duration unless the approval is surrendered, suspended or revoked and has been entered on the list of approved flying device types managed by the President of the Civil Aviation Authority, referred to in the regulations issued on the basis of Art. 33 para 2 and 4 of the Aviation Law Act dated July 3<sup>rd</sup>, 2002 (JL. 2022, item 1235, 1715, 1846, 2185 and 2642).*

Państwo projektu  
*State of Design*

**Slovenia**

Państwo produkcji  
*State of Manufacture*

**Slovenia**

Posiadacz zatwierdzenia typu  
*Type Approval Holder*

**Pipistrel Vertical Solutions d.o.o**

Vipaska cesta 2, 5270 Ajdovščina, Slovenia

Wytwórca  
*Manufacturer*

**Pipistrel Vertical Solutions d.o.o**

Vipaska cesta 2, 5270 Ajdovščina, Slovenia

Oznaczenie typu produktu  
*Product Type Designation*

**Virus SW**

Numer zatwierdzenia typu  
*Type Approval Number*

**965-19: 965-19 1, 965-19 2**

**998-23: 998-23 1, 998-23 2**

Arkusze danych do zatwierdzenia typu  
*Type Certificate Data Sheet*

**965-19: 965-19 1, 965-19 2**

**998-23: 998-23 1, 998-23 2**

Przyjęte wymagania techniczne  
*Type Certification Basis*

**LTF-UL of 15 January 2019 (NfL 2-446-19)**

Uwagi  
*Remarks*

Approved by Deutscher Ultraleichtflugverband e. V. on:

10.04.2019 – 965-19 1, first edition

08.07.2020 – 965-19 2, first edition

21.03.2023 – 998-23 1; 998-23 2, first edition

EZD ref. LTT-4.5460.5.2023

**Z upoważnienia Prezesa Urzędu Lotnictwa Cywilnego**  
*On behalf of President of the Civil Aviation Authority*

**Marcin Perkowski**

**Zastępca Dyrektora Departamentu Techniki Lotniczej**

*Deputy Director, Aviation Technical Department*

(pismo zostało wydane w postaci elektronicznej

i opatrzone kwalifikowanym podpisem elektronicznym)

*(the letter was published in electronic form*

*and signed with a qualified electronic signature)*

Data pierwszego wydania: **14.04.2023**

*Date of original issue:*

Data ostatniej zmiany: --

*Date of last revision:*

**Bundesrepublik Deutschland  
Der Beauftragte**



**Musterzulassungsschein  
für Luftsportgeräte  
Type Certificate  
Nr.: 965-19 1**

Das nachstehend bezeichnete Luftfahrtgerät wurde als Muster zugelassen auf Antrag von:

- Pipistrel Vertical Solutions d.o.o. -  
- Vipavska cesta 2 - 5270 Ajdovščina (SLOWENIEN) -

Dieser Musterzulassungsschein wurde auf Grund der die Musterzulassung betreffenden Bestimmungen des Luftverkehrsgesetzes und der Luftverkehrs-Zulassungs-Ordnung in der am Tage der Ausstellung geltenden Fassung erteilt.

Die Musterzulassung gilt gemäß zugehörigem Geräte-Kennblatt-Nr.:	965-19 1
Bezeichnung des Gerätemusters:	Virus SW 600 D
Bezeichnung der Baureihe:	Rotax 912 ULS / MTV-33-1-A/170-200
Geräteart:	Dreiachs

Die Musterzulassung kann in den in § 4 Abs. 2 der Luftverkehrs-Zulassungs-Ordnung vorgesehenen Fällen widerrufen werden.

This type certificate has been issued on application of:

Pipistrel Vertical Solutions d.o.o.  
Vipavska cesta 2 - 5270 Ajdovščina (SLOWENIEN)

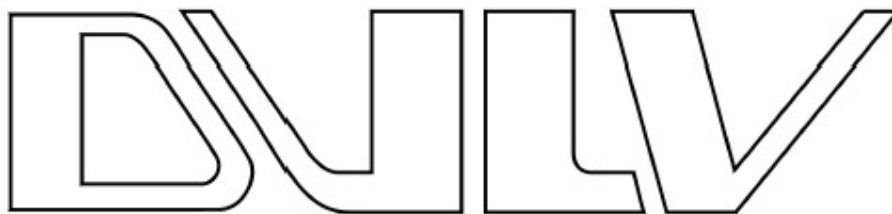
This type certificate has been issued in accordance with the German Certification Regulations as in force on the day of first issue.

The type certification is effective in accordance with the appropriate data sheet No.:	965-19 1
description of mark:	Virus SW 600 D
description of model:	Rotax 912 ULS / MTV-33-1-A/170-200
device type:	Dreiachs

The type certification may be revoked by the Deutscher Ultraleichtflugverband e. V. in cases provided in the German Certification Regulations.

Datum der Ausstellung / date of new issue  
Großlach, den 10.04.2019

Unterschrift / signature



**Deutscher Ultraleichtflugverband e. V.**

Representative of the Federal Ministry of Transport

**Equipment data sheet for  
aerodynamically controlled microlight aircraft**

**Title page**

**Data sheet No** ..... 965-19 1

**Model** ..... Virus SW 600 D

**Series** ..... Rotax 912 ULS / MTV-33-1-A/170-200

**First edition** ..... 10.04.2019

**Last update** ..... 23.01.2020

## I. General

Model .....Virus SW 600 D

Series.....Rotax 912 ULS / MTV-33-1-A/170-200

Manufacturer.....Pipistrel d.o.o.  
Goriska cesta 50a  
5270 Ajdovščina  
Country: SLOVENIA  
Tel. +386 5 620 52 51  
[info@pipistrel.si](mailto:info@pipistrel.si) / <http://www.pipistrel.si>

Type certificate holder .....Pipistrel Vertical Solutions d.o.o.  
Vipavska cesta 2  
5270 Ajdovščina  
Country: SLOVENIA  
Tel. +386 5 36 63 873  
[info@pipistrel.si](mailto:info@pipistrel.si) / <http://www.pipistrel.si>

## II. Approval basis

Legal basis .....§1 LuftVZO in conjunction with  
§10 LuftGerPV

Airworthiness requirements .....Airworthiness Requirements for  
aerodynamically controlled Ultralight Aircraft LTF-UL of  
15 January 2019 (NfL 2-446-19)

Noise requirements.....LVL 2004 dated 1. August 2004 (NfL II-70/04), amended  
acc. announcement dated 1. June 2017 (NfL 2-349-17)  
and 7. June 2019 (NfL 2-480-19)

## III. Technical characteristics and operating limits

### 1. Construction characteristics

Construction.....Fiber reinforced plastic

Wing arrangement.....High wing

Empennage arrangement .....rear

Empennage shape .....T-shape

Landing gear .....Nosewheel

Engine arrangement .....front

Seats.....2

### 2. Dimensions

Wing span .....10,71 m

Wing surface.....9,51 m<sup>2</sup>

Length.....6,5 m

Height.....1,85 m

### 3. Control surfaces deflections

#### a) Ailerons

in neutral position ..... 0°  
 Deflection upwards ..... 13 degrees +/- 1 degree  
 Deflection downwards ..... 10 degrees +/- 1 degree  
 Measuring point distance to control surface axis ..... mm

#### b) Rudder

to the left ..... 25 degrees +/- 2 degree  
 to the right ..... 25 degrees +/- 2 degree  
 Measuring point distance to control surface axis ..... mm

#### c) Elevator

upwards ..... 25 degrees +/- 2 degree  
 downwards ..... 15 degrees +/- 1,5 degree  
 Measuring point distance to control surface axis ..... mm

#### d) Flaps

upwards till ..... 5 degrees +/- 1 degree  
 downwards till ..... 20 degrees +/- 1,5 degree  
 Measuring point distance to flap axis ..... mm

### 4. Power unit

#### a) Engine

Name..... Rotax 912 S, ULS, FR  
 Operating method ..... 4-stroke  
 Maximum power ..... 73,6 kW  
 Mixture preparation ..... 2 constant-pressure carburetors  
 Intake silencer..... -  
 Muffler..... Pipistrel / Akrapovich  
 Additional muffler..... -

#### b) Gearbox

Name..... Rotax  
 Type ..... gear  
 Reduction ratio..... 2,43 : 1

#### c) Propeller

Name..... Mühlbauer MTV-33-1-A/170-200  
 Number of blades..... 2  
 Material of blades..... Wood/GRP  
 Diameter ..... 1,70 m  
 Adjustability ..... Hydraulic Constant Speed

### 5. Energy storage / fuel quantities

Energy source..... Fuel  
 Capacity..... 100 liters  
 non-usable fuel..... 2 x 2,5 L

## 6. Rescue system

GRS 6/600 SD, Data sheet Nr. R10/18-2

## 7. Noise (at maximum take-off mass)

Noise value ..... 70,0 dBA  
 Propeller revs.....2387 RPM

## 8. Airspeeds (all data IAS)

Design diving speed .....  $V_D = 334$  km/h  
 Never exceed speed  $V_{NE}$ .....  $V_{NE} = 301$  km/h  
 Maximum speed in level flight  
 at maximum continuous power .....  $V_H = 222$  km/h  
 Design speed for maximum gust intensity .....  $V_B = 222$  km/h  
 Design maneuvering speed.....  $V_A = 185$  km/h  
 Minimum flight speed  
 in landing configuration .....  $V_{SO} = 83$  km/h  
 Best rate of climb speed  $V_y$ .....  $V_y = 144$  km/h  
 Rate of climb at  $V_y$ .....  $V_x = 5,1$  m/s

## 9. Weights / centers of gravity / load factors

### a) Operation

min. payload..... 251 kg  
 maximum take-off mass ..... 600 kg

### Center of gravity range

forward limit..... 267 mm or % MAC  
 aft limit..... 356 mm or % MAC

Safe positive load factor ..... 4 g  
 Safe negative load factor ..... 2 g

### b) Weighing

Empty mass ..... 349 kg  
 Empty mass – C.G. position (mm)..... 270 +/- 20 or % MAC  
 Datum ..... Wing leading edge (at fuselage)  
 Aircraft attitude ..... Fuselage axis is defined by averaging the  
 angle on top and bottom of the tail boom in  
 front of the vertical stabilizer.

Note

#### **IV. Towing**

Approved with towing clutch type..... Maximum  
towed load [kg] ..... kg  
Braking point [daN]..... daN  
MTOM of the towing UL [kg]..... kg

#### **V. Operating instructions**

1. Operating manuals

In accordance with the aircraft type manual.

2. Instructions for maintenance and inspection

In accordance with the aircraft type manual, as well as an annual inspection requirement.

#### **VI. Instrumentation**

#### **VII. Equipment**

#### **VIII. Additions**

#### **IX. Restrictions**

#### **X. Remarks**

Translation from the German original „DULV-Kennblatt-Nr.: 965-19 1”

.....  
For compliance with the original

Dušan Bogdanović, Head of Certification

Ajdovščina, 31.03.2023

Bundesrepublik Deutschland  
Der Beauftragte



**Musterzulassungsschein  
für Luftsportgeräte  
Type Certificate  
Nr.: 965-19 2**

Das nachstehend bezeichnete Luftfahrtgerät wurde als Muster zugelassen auf Antrag von:

- Pipistrel Vertical Solutions d.o.o. -

- Vipavska cesta 2 - 5270 Ajdovščina (SLOWENIEN) -

Dieser Musterzulassungsschein wurde auf Grund der die Musterzulassung betreffenden Bestimmungen des Luftverkehrsgesetzes und der Luftverkehrs-Zulassungs-Ordnung in der am Tage der Ausstellung geltenden Fassung erteilt.

Die Musterzulassung gilt gemäß

zugehörigem Geräte-Kennblatt-Nr.:	965-19 2
Bezeichnung des Gerätemusters:	Virus SW 600 D
Bezeichnung der Baureihe:	Rotax 912 iS / MTV-33-1-A/170-200
Geräteart:	Dreiachs

Die Musterzulassung kann in den in § 4 Abs. 3 der Luftverkehrs-Zulassungs-Ordnung vorgesehenen Fällen widerrufen werden.

This type certificate has been issued on application of:

Pipistrel Vertical Solutions d.o.o.

Vipavska cesta 2 - 5270 Ajdovščina (SLOWENIEN)

This type certificate has been issued in accordance with the German Certification Regulations as in force on the day of first issue.

The type certification is effective in accordance with

the appropriate data sheet No.:	965-19 2
description of mark:	Virus SW 600 D
description of model:	Rotax 912 iS / MTV-33-1-A/170-200
device type:	Dreiachs

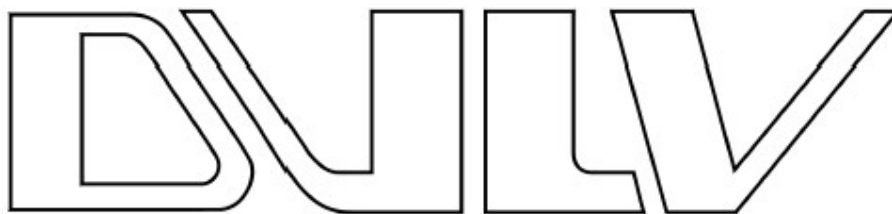
The type certification may be revoked by the Deutscher Ultraleichtflugverband e. V. in cases provided in the German Certification Regulations.

Datum der Ausstellung / date of new issue  
Großarlach, den 08.07.2020



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Unterschrift / signature





**Deutscher Ultraleichtflugverband e. V.**

Representative of the Federal Ministry of Transport

**Equipment data sheet for  
aerodynamically controlled microlight aircraft**

**Title page**

**Data sheet No** ..... 965-19 2

**Model** ..... Virus SW 600 D

**Series** ..... Rotax 912 iS / MTV-33-1-A/170-200

**First edition** ..... 08.07.2020

**Last update** .....

## I. General

Model .....Virus SW 600 D

Series .....Rotax 912 iS / MTV-33-1-A/170-200

Manufacturer .....Pipistrel d.o.o.  
Goriska cesta 50a  
5270 Ajdovščina  
Country: SLOVENIA  
Tel. +386 5 620 52 51  
[info@pipistrel.si](mailto:info@pipistrel.si) / <http://www.pipistrel.si>

Type certificate holder .....Pipistrel Vertical Solutions d.o.o.  
Vipavska cesta 2  
5270 Ajdovščina  
Country: SLOVENIA  
Tel. +386 5 36 63 873  
[info@pipistrel.si](mailto:info@pipistrel.si) / <http://www.pipistrel.si>

## II. Approval basis

Legal basis .....§1 LuftVZO in conjunction with  
§10 LuftGerPV

Airworthiness requirements .....Airworthiness Requirements for  
Aerodynamically Controlled  
Ultralight Aircraft LTF-UL of  
15 January 2019 (NfL 2-446-19)

Noise requirements .....LVL 2004 dated 1. August 2004 (NfL II-70/04), amended  
acc. announcement dated 1. June 2017 (NfL 2-349-17)  
and 7. June 2019 (NfL 2-480-19)

## III. Technical characteristics and operating limits

### 1. Construction characteristics

Construction .....Fiber reinforced plastic

Wing arrangement..... high wing

Empennage arrangement ..... rear

Empennage shape ..... T-shape

Landing gear ..... Nosewheel

Engine arrangement ..... front

Seats ..... 2

### 2. Dimensions

Wing span ..... 10,71 m

Wing surface ..... 9,51 m<sup>2</sup>

Length ..... 6,5 m

Height ..... 1,85 m

### 3. Control surfaces deflections

#### a) Ailerons

in neutral position ..... 0°  
Deflection upwards ..... 13 degrees +/- 1 degree  
Deflection downwards ..... 10 degrees +/- 1 degree  
Measuring point distance to control surface axis ..... mm

#### b) Rudder

to the left ..... 25 degrees +/- 2 degree  
to the right ..... 25 degrees +/- 2 degree  
Measuring point distance to control surface axis ..... mm

#### c) Elevator

upwards ..... 25 degrees +/- 2 degree  
downwards ..... 15 degrees +/- 1,5 degree  
Measuring point distance to control surface axis ..... mm

#### d) Flaps

upwards till ..... 5 degrees +/- 1 degree  
downwards till ..... 20 degrees +/- 1,5 degree  
Measuring point distance to flap axis ..... mm

### 4. Power unit

#### a) Engine

Name ..... Rotax 912 iS  
Operating method ..... 4-stroke  
Maximum power ..... 73,5 kW  
Mixture preparation ..... Injection  
Intake silencer ..... -  
Muffler ..... Pipistrel / Akrapovich  
Additional muffler ..... -

#### b) Gearbox

Name ..... Rotax  
Type ..... gear  
Reduction ratio ..... 2,43 : 1

#### c) Propeller

Name ..... Mühlbauer MTV-33-1-A/170-200  
Number of blades ..... 2  
Material of blades ..... Wood/GRP  
Diameter ..... 1,70 m  
Adjustability ..... Hydraulic Constant Speed

## 5. Energy storage / fuel quantities

Energy source.....	Fuel
Capacity.....	100 liters
non-usable fuel.....	2 x 2,5 L

## 6. Rescue system

GRS 6/600 SD, Data sheet Nr. R10/18-2

## 7. Noise (at maximum take-off mass)

Noise value .....	69 dBA
Propeller revs.....	2355 RPM

## 8. Airspeeds (all data IAS)

Design diving speed .....	$V_D = 334$ km/h
Never exceed speed $V_{NE}$ .....	$V_{NE} = 301$ km/h
Maximum speed in level flight at maximum continuous power .....	$V_H = 222$ km/h
Design speed for maximum gust intensity .....	$V_B = 222$ km/h
Design maneuvering speed $V_A$ .....	$V_A = 185$ km/h
Minimum flight speed in landing configuration .....	$V_{SO} = 83$ km/h
Best rate of climb speed $V_y$ .....	$V_y = 144$ km/h
Rate of climb at $V_y$ .....	RoC = 6,1 m/s

## 9. Weights / centers of gravity / load factors

### a) Operation

min. payload.....	251 kg
maximum take-off mass .....	600 kg

### Center of gravity range

forward limit.....	267 mm or % MAC
aft limit.....	356 mm or % MAC

Safe positive load factor .....	4 g
Safe negative load factor .....	2 g

### b) Weighing

Empty mass .....	349 kg
Empty mass – C.G. position (mm).....	270 +/- 20 or % MAC
Datum .....	Wing leading edge (at fuselage)
Aircraft attitude .....	Fuselage axis is defined by averaging the angle on top and bottom of the tail boom in front of the vertical stabilizer.

Note

#### **IV. Towing**

Approved with towing clutch type..... Maximum  
towed load [kg] ..... kg  
Braking point [daN]..... daN  
MTOM of the towing UL [kg]..... kg

#### **V. Operating instructions**

1. Operating manuals  
In accordance with the aircraft type manual.
2. Instructions for maintenance and inspection  
In accordance with the aircraft type manual, as well as an annual inspection requirement.

#### **VI. Instrumentation**

#### **VII. Equipment**

#### **VIII. Additions**

#### **IX. Restrictions**

#### **X. Remarks**

Translation from the German original „DULV-Kennblatt-Nr.: 965-19 1”

.....  
For compliance with the original

Dušan Bogdanović, Head of Certification

Ajdovščina, 31.03.2023

Bundesrepublik Deutschland  
Der Beauftragte



**Musterzulassungsschein  
für Luftsportgeräte  
Type Certificate  
Nr.: 998-23 1**

Das nachstehend bezeichnete Luffahrtgerät wurde als Muster zugelassen auf Antrag von:

- Pipistrel Vertical Solutions d.o.o. -

- Vipavska cesta 2 - 5270 Ajdovščina (SLOWENIEN) -

Dieser Musterzulassungsschein wurde auf Grund der die Musterzulassung betreffenden Bestimmungen des Luftverkehrsgesetzes und der Luftverkehrs-Zulassungs-Ordnung in der am Tage der Ausstellung geltenden Fassung erteilt.

Die Musterzulassung gilt gemäß  
zugehörigem Geräte-Kennblatt-Nr.: 998-23 1  
Bezeichnung des Gerätemusters: Virus SW 600 D Spornrad  
Bezeichnung der Baureihe: Rotax 912 ULS / MTV-33-1-A/170-200  
Geräteart: Dreiachs

Die Musterzulassung kann in den in § 4 Abs. 3 der Luftverkehrs-Zulassungs-Ordnung vorgesehenen Fällen widerrufen werden.

This type certificate has been issued on application of:

Pipistrel Vertical Solutions d.o.o.

Vipavska cesta 2 - 5270 Ajdovščina (SLOWENIEN)

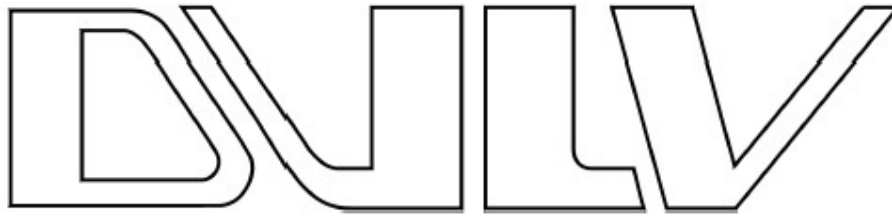
This type certificate has been issued in accordance with the German Certification Regulations as in force on the day of first issue.

The type certification is effective in accordance with  
the appropriate data sheet No.: 998-23 1  
description of mark: Virus SW 600 D Spornrad  
description of model: Rotax 912 ULS / MTV-33-1-A/170-200  
device type: Dreiachs

The type certification may be revoked by the Deutscher Ultraleichtflugverband e. V. in cases provided in the German Certification Regulations.

Datum der Ausstellung / date of new issue  
Großarlach, den 21.03.2023

Unterschrift / signature



**Deutscher Ultraleichtflugverband e. V.**

Representative of the Federal Ministry of Transport

**Equipment data sheet for  
aerodynamically controlled microlight aircraft**

**Title page**

**Data sheet No** ..... 998-23 1

**Model** ..... Virus SW 600 D Tailwheel

**Series** ..... Rotax 912 ULS / MTV-33-1-A/170-200

**First edition** ..... 21.03.2023

**Last update** .....

## I. General

Model.....Virus SW 600 D Tailwheel  
Series .....Rotax 912 ULS / MTV-33-1-A/170-200  
Manufacturer .....Pipistrel d.o.o.  
Goriska cesta 50a  
5270 Ajdovščina  
Country: SLOVENIA  
  
Type certificate holder.....Pipistrel Vertical Solutions d.o.o.  
Vipavska cesta 2  
5270 Ajdovščina  
Country: SLOVENIA

## II. Approval basis

Legal basis.....§1 LuftVZO in conjunction with  
§10 LuftGerPV  
Airworthiness requirements.....Airworthiness Requirements for  
Aerodynamically Controlled  
Ultralight Aircraft LTF-UL of  
15 January 2019 (NfL 2-446-19)  
Noise requirements .....LVL 2004 dated 1. August 2004 (NfL II-70/04),  
amended acc. announcement dated 1. June 2017  
(NfL 2-349-17) and 7. June 2019 (NfL 2-480-19)

## III. Technical characteristics and operating limits

### 1. Construction characteristics

Construction.....Fiber reinforced plastic  
Wing arrangement .....High wing  
Empennage arrangement.....rear  
Empennage shape.....T-shape  
Landing gear.....Tailwheel  
Engine arrangement.....front  
Seats.....2

### 2. Dimensions

Wing span .....10,71 m  
Wing surface.....9,51 m<sup>2</sup>  
Length.....6,5 m  
Height .....1,85 m



### 3. Control surfaces deflections

#### a) Ailerons

in neutral position .....0° degrees  
Deflection upwards ..... 13 degrees +/- 1 degree  
Deflection downwards ..... 10 degrees +/- 1 degree  
Measuring point distance to control surface axis       mm

#### b) Rudder

to the left..... 25 degrees +/- 2 degree  
to the right..... 25 degrees +/- 2 degree  
Measuring point distance to control surface axis       mm

#### c) Elevator

upwards..... 25 degrees +/- 2 degree  
downwards..... 15 degrees +/- 1,5 degree  
Measuring point distance to control surface axis       mm

#### d) Flaps

upwards till..... 5 degrees +/- 1 degree  
downwards till..... 20 degrees +/- 1,5 degree  
Measuring point distance to flap axis .....       mm

### 4. Power unit

#### a) Engine

Name ..... Rotax 912 S, ULS, FR  
Operating method .....4-stroke  
Maximum power..... 73,6 kW  
Mixture preparation..... 2 constant-pressure carburetors  
Intake silencer ..... -  
Muffler ..... Pipistrel / Akrapovich  
Additional muffler..... -

#### b) Gearbox

Name ..... Rotax  
Type ..... Gear  
Reduction ratio ..... 2,43 : 1

#### c) Propeller

Name ..... Mühlbauer MTV-33-1-A/170-200  
Number of blades..... 2  
Material of blades..... Wood/GRP  
Diameter..... 1,70 m  
Adjustability ..... Hydraulic Constant Speed

## 5. Energy storage / fuel quantities

Energy source ..... Fuel  
Capacity ..... 100 liters  
non-usable fuel..... 2 x 2,5 L

## 6. Rescue system

GRS 6/600 SD, Data sheet Nr. R10/18-2

## 7. Noise (at maximum take-off mass)

Noise value ..... 70,0 dBA  
Propeller revs. .... 2387 RPM

## 8. Airspeeds (all data IAS)

Never exceed speed  $V_{NE}$ ..... 301 km/h

Maximum speed in level flight  
at maximum continuous power  $V_H$ ..... 222 km/h

Design speed for maximum gust intensity  $V_B$ ..... 222 km/h

Design maneuvering speed  $V_A$ ..... 185 km/h

Maximum speed with flaps extended  $V_{FE}$  ..... 129,5 km/h

Minimum flight speed  
in landing configuration..... 83 km/h

Best rate of climb speed  $V_y$ ..... 144 km/h

Rate of climb at  $V_y$ ..... 5,1 m/s

## 9. Weights / centers of gravity / load factors

### a) Operation

min. payload ..... 55 kg  
maximum take-off mass..... 600 kg

### Center of gravity range

forward limit ..... 267 mm or % MAC  
aft limit..... 356 mm or % MAC

Safe positive load factor ..... 4 g

Safe negative load factor ..... 2 g

## b) Weighing

Empty mass.....	337 kg
Empty mass – C.G. position .....	200-240 mm or % MAC
Datum.....	Wing leading edge (at fuselage)
Aircraft attitude.....	Fuselage axis is defined by averaging the angle on top and bottom of the tail boom in front of the vertical stabilizer.

## **IV. Towing**

Approved with towing clutch type.....  
Maximum towed load [kg] .....

Braking point [daN].....  
MTOM of the towing UL [kg].....

## **V. Operating instructions**

1. Operating manuals  
In accordance with the aircraft type manual.
2. Instructions for maintenance and inspection  
In accordance with the aircraft type manual, as well as an annual inspection requirement.

## **VI. Instrumentation**

## **VII. Equipment**

## **VIII. Additions**

## **IX. Restrictions**

## **X. Remarks**

Translation from the German original „DULV-Kennblatt-Nr.: 998-23 1”

.....

For compliance with the original

Dušan Bogdanović, Head of Certification

Ajdovščina, 31.03.2023

Bundesrepublik Deutschland  
Der Beauftragte



Musterzulassungsschein  
für Luftsportgeräte  
Type Certificate  
Nr.: 998-23 2

Das nachstehend bezeichnete Luftfahrtgerät wurde als Muster zugelassen auf Antrag von:

- Pipistrel Vertical Solutions d.o.o. -  
- Vipavska cesta 2 - 5270 Ajdovščina (SLOWENIEN) -

Dieser Musterzulassungsschein wurde auf Grund der die Musterzulassung betreffenden Bestimmungen des Luftverkehrsgesetzes und der Luftverkehrs-Zulassungs-Ordnung in der am Tage der Ausstellung geltenden Fassung erteilt.

Die Musterzulassung gilt gemäß  
zugehörigem Geräte-Kennblatt-Nr.: 998-23 2  
Bezeichnung des Gerätemusters: Virus SW 600 D Spornrad  
Bezeichnung der Baureihe: Rotax 912 iS / MTV-33-1-A/170-200  
Geräteart: Dreiachs

Die Musterzulassung kann in den in § 4 Abs. 3 der Luftverkehrs-Zulassungs-Ordnung vorgesehenen Fällen widerrufen werden.

This type certificate has been issued on application of:

Pipistrel Vertical Solutions d.o.o.  
Vipavska cesta 2 - 5270 Ajdovščina (SLOWENIEN)

This type certificate has been issued in accordance with the German Certification Regulations as in force on the day of first issue.

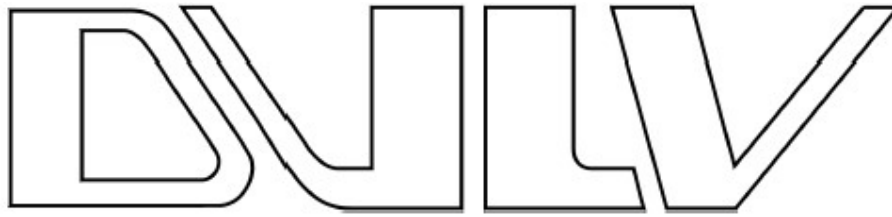
The type certification is effective in accordance with

the appropriate data sheet No.: 998-23 2  
description of mark: Virus SW 600 D Spornrad  
description of model: Rotax 912 iS / MTV-33-1-A/170-200  
device type: Dreiachs

The type certification may be revoked by the Deutscher Ultraleichtflugverband e. V. in cases provided in the German Certification Regulations.

Datum der Ausstellung / date of new issue  
Großarlach, den 21.03.2023

Unterschrift / signature



**Deutscher Ultraleichtflugverband e. V.**

Representative of the Federal Ministry of Transport

**Equipment data sheet for  
aerodynamically controlled microlight aircraft**

**Title page**

**Data sheet No** ..... 998-23 2

**Model** ..... Virus SW 600 D Tailwheel

**Series** ..... Rotax 912 iS / MTV-33-1-A/170-200

**First edition** ..... 21.03.2023

**Last update** .....

## I. General

Model.....Virus SW 600 D Tailwheel  
Series .....Rotax 912 iS / MTV-33-1-A/170-200  
Manufacturer .....Pipistrel d.o.o.  
Goriska cesta 50a  
5270 Ajdovščina  
Country: SLOVENIA  
Type certificate holder.....Pipistrel Vertical Solutions d.o.o.  
Vipavska cesta 2  
5270 Ajdovščina  
Country: SLOVENIA

## II. Approval basis

Legal basis..... §1 LuftVZO in conjunction with  
§10 LuftGerPV  
Airworthiness requirements..... Airworthiness Requirements for  
Aerodynamically Controlled  
Ultralight Aircraft LTF-UL of  
15 January 2019 (NfL 2-446-19)  
Noise requirements ..... LVL 2004 dated 1. August 2004 (NfL II-70/04),  
amended acc. announcement dated 1. June 2017  
(NfL 2-349-17) and 7. June 2019 (NfL 2-480-19)

## III. Technical characteristics and operating limits

### 1. Construction characteristics

Construction..... Fiber reinforced plastic  
Wing arrangement..... High wing  
Empennage arrangement..... rear  
Empennage shape ..... T-shape  
Landing gear..... Tailwheel  
Engine arrangement..... front  
Seats..... 2

### 2. Dimensions

Wing span..... 10,71 m  
Wing surface..... 9,51 m<sup>2</sup>  
Length..... 6,5 m  
Height ..... 1,85 m

### 3. Control surfaces deflections

#### a) Ailerons

in neutral position..... 0°  
Deflection upwards..... 13 degrees +/- 1 degree  
Deflection downwards..... 10 degrees +/- 1 degree  
Measuring point distance to control surface axis        mm

#### b) Rudder

to the left..... 25 degrees +/- 2 degree  
to the right..... 25 degrees +/- 2 degree  
Measuring point distance to control surface axis        mm

#### c) Elevator

upwards..... 25 degrees +/- 2 degree  
downwards..... 15 degrees +/- 1,5 degree  
Measuring point distance to control surface axis        mm

#### d) Flaps

upwards till..... 5 degrees +/- 1 degree  
downwards till..... 20 degrees +/- 1,5 degree  
Measuring point distance to flap axis .....        mm

### 4. Power unit

#### a) Engine

Name ..... Rotax 912 iS, iSc Sport  
Operating method ..... 4-stroke  
Maximum power..... 73,5 kW  
Mixture preparation..... Injection  
Intake silencer ..... -  
Muffler ..... Pipistrel / Akrapovich  
Additional muffler..... -

#### b) Gearbox

Name ..... Rotax  
Type ..... Gear  
Reduction ratio ..... 2,43 : 1

#### c) Propeller

Name ..... Mühlbauer MTV-33-1-A/170-200  
Number of blades..... 2  
Material of blades..... Wood/GRP  
Diameter..... 1,70 m  
Adjustability ..... Hydraulic Constant Speed

## 5. Energy storage / fuel quantities

Energy source ..... Fuel  
Capacity ..... 100 liters  
non-usable fuel..... 2 x 2,5 L

## 6. Rescue system

GRS 6/600 SD, Data sheet Nr. R10/18-2

## 7. Noise (at maximum take-off mass)

Noise value ..... 69 dBA  
Propeller revs. .... 2355 RPM

## 8. Airspeeds (all data IAS)

Never exceed speed  $V_{NE}$ ..... 301 km/h  
  
Maximum speed in level flight  
at maximum continuous power  $V_H$ ..... 222 km/h  
  
Design speed for maximum gust intensity  $V_B$ ..... 222 km/h  
  
Design maneuvering speed  $V_A$ ..... 185 km/h  
  
Maximum speed with flaps extended  $V_{FE}$ ..... 129,5 km/h  
  
Minimum flight speed  
in landing configuration  $V_{SO}$ ..... 83 km/h  
  
Best rate of climb speed  $V_y$ ..... 144 km/h  
  
Rate of climb at  $V_y$ ..... 6,1 m/s

## 9. Weights / centers of gravity / load factors

### a) Operation

min. payload ..... 55 kg  
maximum take-off mass..... 600 kg

### Center of gravity range

forward limit ..... 267 mm or % MAC  
aft limit ..... 356 mm or % MAC

Safe positive load factor ..... 4 g  
Safe negative load factor..... 2 g



## b) Weighing

Empty mass ..... 337 kg  
Empty mass – C.G. position ..... 200-240 mm or % MAC  
Datum ..... Wing leading edge (at fuselage)  
Aircraft attitude ..... Fuselage axis is defined by averaging the  
angle on top and bottom of the tail boom  
in front of the vertical stabilizer.

## IV. Towing

Approved with towing clutch type.....  
Maximum towed load [kg] ..... kg  
Braking point [daN]..... daN  
MTOM of the towing UL [kg]..... kg

## V. Operating instructions

1. Operating manuals  
In accordance with the aircraft type manual latest revision.
2. Instructions for maintenance and inspection  
In accordance with the aircraft type manual, as well as an annual inspection requirement.

## VI. Instrumentation

## VII. Equipment

## VIII. Additions

## IX. Restrictions

## X. Remarks

Translation from the German original „DULV-Kennblatt-Nr.: 965-19 1”

.....  
For compliance with the original Dušan

Bogdanović, Head of Certification

Ajdovščina, 31.03.2023