TYPE-CERTIFICATE

DATA SHEET

NO. EASA.A.627

for
Ventus-3

Type Certificate Holder
Schempp-Hirth Flugzeugbau GmbH

Krebenstraße 25
73230 Kirchheim/Teck
Germany

For models: Ventus-3T
Ventus-3M
Ventus-3F
Ventus-3E

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Contents

Section A: **Ventus-3T**

A.I General

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	1.2 Model:	Ventus-3T
2.	Airworthiness Category	Powered Sailplane, CS 22 - Utility
3.	Manufacturer	Schempp-Hirth Flugzeugbau GmbH Krebenstraße 25 73230 Kirchheim / Teck Germany
4.	EASA Type Certification Application Date	30 September 2015
5.	EASA Type Certification Date	20 July 2018

A.II EASA Certification Basis

1.	Reference Date for determining the applicable requirements	30 September 2015
2.	Airworthiness Requirements	Certification Specifications for Sailplanes and Powered Sailplanes CS 22, Amend. 2, effective on March 5, 2009
3.	Special Conditions	None
4.	Exemptions	None
5.	(Reserved) Deviations	None
6.	Equivalent Safety Findings	CS 22.207 (a), (c) CS 22.335 (f)
7.	Environmental Protection	ICAO Annex 16 (details refer to TCDSN EASA.A.627)

A.III Technical Characteristics and Operational Limitations

1. Type Design Definition

List of drawing files Ventus-3T,
Issue April 2018

2. Description

Single seat, mid-wing non-self-launching powered sailplane, CFRP/GFRP/AFRP-construction, 6-piece 18 m wing with Winglets, chamber changing-flaps, triple-panel Schempp-Hirth type airbrakes on upper wing surface, water ballast tanks in wings and fin (optional), CFRP/GFRP/AFRP-fuselage, retractable main wheel with hydraulic disc brake, T-shaped horizontal tail (fixed horizontal stabilizer with elevator, fin and rudder), retractable power plant with folding propeller.

3. Equipment

Min. required Equipment:

1 Air speed indicator (up to 300 km/h)
1 Altimeter
1 Magnetic compass
1 Outside air temperature indicator with sensor (when flying with water ballast)
1 Engine control unit featuring:
- RPM indicator
- Engine hour meter
- Fuel quantity indicator
1 Rear view mirror
1 4-point harness (symmetrical)
1 Automatic or manual parachute
or
1 Back cushion (thickness approx. 8 cm when compressed) when flying without parachute

Additional equipment refer to Flight and Maintenance Manual

4. Dimensions

Span:	15,0 m	18,0 m
Wing area:	9,53 m^2	10,84 m^2 (see AV.4)
Length:	6,63 m	
When according AV.5:		
Length:	6,78 m	

5. Engine

5.1 Model	SOLO 2350	
5.2 Type Certificate	Type Certificate Data Sheet No. EASA.E.219	
5.3 Limitations	Maximum RPM:	5800 min^{-1}
	Maximum continuous RPM:	5500 min^{-1}
5.4 Maximum Continuous Power	15,3 kW	

6. Propeller

6.1	Model	OE-FL 5.83/83 a5, v92
6.2	Type Certificate	Data Sheet No. OE-FL ./83
6.3	Number of blades	5
6.4	Diameter	830 mm +/- 0mm Note: Propeller features blades of different lengths (d_{min}/d = 92%)
6.5	Sense of Rotation	counter-clockwise

7. Fuel capacities

7.1	Tank in the fuselage	10,5 l	11,6 l, when according AV.5
7.2	Non-usable fuel	0,3 l	

8. Launching Hooks

Safety hook Tost “Europa G 88”, LBA Datasheet No. 60.230/2
Nose tow hook Tost “E22”, Datasheet 11.402/9NTS

9. Weak Links

Ultimate strength:
- for winch- and car launch: max. 825 daN
- for aero tow: max. 660 daN

10. Load Factors

+5,3 / -2,65 (up to V_A)
+4,0 / -1,5 (up to V_{NE})

11. Air Speeds

Manoeuvring Speed	V_A	180 km/h
Never exceed speed	V_{NE}	280 km/h
Maximum permitted speeds		
- with flaps at 0, -1, -2, S, S1	V_{FE}	280 km/h
- with flaps at +2, +1	V_{FE}	180 km/h
- with flaps at L	V_{FE}	150 km/h
- in rough air	V_{RA}	180 km/h
- for winch / car launching	V_W	150 km/h
- for aero towing	V_T	180 km/h
- for gear operation	V_{LO}	180 km/h
- for extended power plant:		
Ignition ON	V_{MAX1}	150 km/h
Ignition OFF	V_{MAX2}	180 km/h
- for extending / retracting the power plant:		
	V_{POmin}	90 km/h
	V_{POmax}	120 km/h

12. Approved Operations Capability

VFR Day only
Cloud flying permitted
Aerobatic manoeuvres not permitted

13. Launch methods

Aero tow
Winch launch and car launch

14. Maximum Masses	Max. Mass: With 15 m Wing Span: 525 kg (see AV.4) With 18 m Wing Span: 600 kg Max. Mass of non-lifting parts: Power-plant installed: 320 kg Power-plant removed: 280 kg
15. Centre of Gravity Range	Power-plant installed: 300 mm – 430 mm aft of datum Power-plant removed: 290 mm – 430 mm aft of datum
16. Datum	Wing leading edge at root rib
17. Levelling Means	Wedge 100 : 3,0 on slope of rear top fuselage to be horizontal When according AV.5: Wedge 100 : 4,4 on slope of rear top fuselage to be horizontal
18. Control Surface Deflections	Refer to Maintenance Manual
19. Minimum Flight Crew	1
20. Maximum Passenger Seating Capacity	0
21. Baggage/ Cargo Compartments	2 kg
22. Lifetime limitations	Refer to Flight Manual, section 2

A.IV Operating and Service Instructions

1. Flight Manual

   Flight Manual Ventus-3T, Issue April 2018, or later EASA approved revisions
   When according AV.4:
   Flight Manual Ventus-3T, Issue January 2021, or later EASA approved revisions
   When according AV.5:
   Flight Manual Ventus-3T "Performance", Issue October 2021, or later EASA approved revisions

2. Maintenance Manual

   Maintenance Manual Ventus-3T, Issue April 2018, or later EASA accepted revisions
   When according AV.4:
   Maintenance Manual Ventus-3T, Issue January 2021, or later EASA accepted revisions
   When according AV.5:
   Maintenance Manual Ventus-3T "Performance", Issue October 2021, or later EASA accepted revisions

3. Structural Repair Manual

   Repair Manual for the GFRP/CFRP powered sailplane model "Ventus-3T", latest applicable issue

4. Operating Manual and Maintenance Manual for Engine

   Approved manual for the SOLO Engine type 2350, latest applicable issue, by SOLO Kleinmotoren GmbH

5. Operating Manual and Maintenance Manual for Propeller

   Approved manual for the folding propeller type OE-FL ./83, latest applicable issue, Ingrid Oehler TB GmbH

6. Manual for the Tost release, latest approved issue

A.V Notes

1. Manufacturing is confined to industrial production.

2. All parts exposed to sun radiation – except the areas for markings, registration and the cockpit area – must have a white colour surface.

3. Approved for operations with power plant temporarily removed or inoperative in accordance with the instructions given in the flight manual.

4. Introduction of option for 15m-wingspan outer wing panels and new issues of Flight and Maintenance Manual with Modification Bulletin 627-2.
5. With Modification Bulletin 627-3 the “Performance-Edition”-fuselage can be used.

Section B: Ventus-3M

B.I General

1.	Type/ Model/ Variant	
	1.1 Type:	Ventus-3
	1.2 Model:	Ventus-3M
2.	Airworthiness Category	Powered Sailplane, CS 22 - Utility
3.	Manufacturer	Schempp-Hirth Flugzeugbau GmbH Krebenstraße 25 73230 Kirchheim / Teck Germany
4.	EASA Type Certification Application Date	2 October 2017
5.	EASA Type Certification Date	15 November 2019

B.II EASA Certification Basis

1.	Reference Date for determining the applicable requirements	2 October 2017
2.	Airworthiness Requirements	Certification Specifications for Sailplanes and Powered Sailplanes CS 22, Amend. 2, effective on March 5, 2009
3.	Special Conditions	None
4.	Exemptions	None
5.	(Reserved) Deviations	None
6.	Equivalent Safety Findings	CS 22.207 (a), (c) CS 22.335 (f)
7.	Environmental Protection	ICAO Annex 16 (details refer to TCDSN EASA.A.627)

B.III Technical Characteristics and Operational Limitations

1. Type Design Definition

List of drawing files Ventus-3M,
Issue September 2019

2. Description

Single seat, mid-wing powered sailplane, CFRP/GFRP/AFRP-construction, 6-piece 18 m wing with Winglets, chamber changing-flaps, triple-panel Schempp-Hirth type airbrakes on upper wing surface, water ballast tanks in wings and fin (optional), CFRP/GFRP/AFRP-fuselage, retractable main wheel with hydraulic disc brake, T-shaped horizontal tail (fixed horizontal stabilizer with elevator, fin and rudder), retractable power plant with fixed propeller.

3. Equipment

Min. required Equipment:

1 Air speed indicator (up to 300 km/h)
1 Altimeter
1 Magnetic compass
1 Outside air temperature indicator with sensor (when flying with water ballast)
1 Power plant operating unit featuring:
- RPM indicator
- Engine hour meter
- Fuel quantity indicator
- Coolant liquid temperature indicator
- Warning signals
1 Rear view mirror
1 4-point harness (symmetrical)
1 Automatic or manual parachute
or
1 Back cushion (thickness approx. 8 cm when compressed) when flying without parachute

Additional equipment refer to Flight and Maintenance Manual

4. Dimensions

Span:	18,0 m
Wing area:	10,84 m^2
Length:	6,78 m

5. Engine

5.1 Model

SOLO 2625, variation SOLO 2625-01 i

When according to BV.4:

SOLO 2625, variation SOLO 2625-01 i neo

5.2 Type Certificate

Type Certificate Data Sheet No. EASA.E.218

5.3 Limitations

Maximum RPM:	6600 min^{-1}
Maximum continuous RPM:	6250 min^{-1}

5.4 Maximum Continuous Power

45 kW

6. Propeller

6.1	Model	KS-1G-152-R 122
6.2	Type Certificate	LBA-Data Sheet No. 32.110/18
6.3	Number of blades	2
6.4	Diameter	1580 mm +/-50mm
6.5	Sense of Rotation	counter-clockwise

7. Fuel capacities

7.1	Tank in the fuselage	13,0 l
7.2	Non-usable fuel	0,3 l
7.3	Tank in wing(s)	optional, see Flight Manual

8. Launching Hooks

Safety hook Tost “Europa G 88”, LBA Datasheet No. 60.230/2
Nose tow hook Tost “E22”, Datasheet 11.402/9NTS

9. Weak Links

Ultimate strength:
- for winch- and car launch: max. 825 daN
- for aero tow: max. 660 daN

10. Load Factors

+5,3 / -2,65 (up to V_A)
+4,0 / -1,5 (up to V_{NE})

11. Air Speeds

Manoeuvring Speed	V_A	180 km/h
Never exceed speed	V_{NE}	280 km/h
Maximum permitted speeds		
- with flaps at 0, -1, -2, S, S1	V_{FE}	280 km/h
- with flaps at +2, +1	V_{FE}	180 km/h
- with flaps at L	V_{FE}	150 km/h
- in rough air	V_{RA}	180 km/h
- for winch / car launching	V_W	150 km/h
- for aero towing	V_T	180 km/h
- for gear operation	V_{LO}	180 km/h
- for extended power plant	V_{MAX}	180 km/h
- for extending / retracting the power plant:		
	V_{POmin}	92 km/h
	V_{POmax}	120 km/h

12. Approved Operations Capability

VFR Day only
Cloud flying permitted
Aerobatic manoeuvres not permitted

13. Launch methods

Aero tow
Winch launch and car launch
Self launch

14. Maximum Masses

Max. Mass: 600 kg
Max. Mass of non-lifting parts:
Power-plant installed: 365 kg
Power-plant removed: 320 kg

15. Centre of Gravity Range	Power-plant installed: 320 mm – 430 mm aft of datum Power-plant removed: 300 mm – 430 mm aft of datum
16. Datum	Wing leading edge at root rib
17. Levelling Means	Wedge 100 : 4,4 on slope of rear top fuselage to be horizontal
18. Control Surface Deflections	Refer to Maintenance Manual
19. Minimum Flight Crew	1
20. Maximum Passenger Seating Capacity	0
21. Baggage/ Cargo Compartments	2 kg
22. Lifetime limitations	Refer to Flight Manual, section 2

B.IV Operating and Service Instructions

1. Flight Manual	Flight Manual Ventus-3M, Issue March 2019, or later EASA approved revisions When according BV.4: Flight Manual Ventus-3M, Issue February 2021, or later approved revisions
2. Maintenance Manual	Maintenance Manual Ventus-3M, Issue March 2019, or later EASA accepted revisions When according BV.4: Maintenance Manual Ventus-3M, Issue February 2021, or later accepted revisions
3. Structural Repair Manual	Repair Manual for the GFRP/CFRP powered sailplane model “Ventus-3M”, latest applicable issue
4. Operating Manual and Maintenance Manual for Engine	Approved manual for the SOLO Engine type 2625-01i, latest applicable issue, by SOLO Kleinmotoren GmbH When according to BV.4: Approved manual for the SOLO Engine type 2625-01i neo, latest applicable issue, by SOLO Kleinmotoren GmbH
5. Operating Manual and Maintenance Manual for Propeller	Operation and Installation Manual No. P3 for the two blade composite propellers with fixed pitch KS 1 G()()() KS 1 C ()()(), valid issue as appropriate
6. Manual for the Tost release, latest approved issue	

B.V Notes

1. Manufacturing is confined to industrial production.

2. All parts exposed to sun radiation – except the areas for markings, registration and the cockpit area – must have a white colour surface.

3. Approved for operations with power plant temporarily removed or inoperative in accordance with the instructions given in the flight manual.

4. Introduction of new engine variant SOLO 2625-01 I neo and new issues of Flight and Maintenance Manuals with Modification Bulletin 627-1.

Section C: Ventus-3F

C.I General

1.	Type/ Model/ Variant	
	1.1 Type:	Ventus-3
	1.2 Model:	Ventus-3F
2.	Airworthiness Category	Powered Sailplane, CS 22 - Utility
3.	Manufacturer	Schempp-Hirth Flugzeugbau GmbH Krebenstraße 25 73230 Kirchheim / Teck Germany
4.	EASA Type Certification Application Date	04 May 2017
5.	EASA Type Certification Date	8 Juni 2022

C.II EASA Certification Basis

1.	Reference Date for determining the applicable requirements	04 May 2017
2.	Airworthiness Requirements	Certification Specifications for Sailplanes and Powered Sailplanes CS 22, Amend. 2, effective on March 5, 2009
3.	Special Conditions	SC.22-2014-01 Installation of Electric Propulsion in sailplanes, SC E-01 Airworthiness Standard for CS-22H Electrical Retractable Engine to be operated in Powered Sailplanes
4.	Exemptions	None
5.	(Reserved) Deviations	None
6.	Equivalent Safety Findings	CS 22.207 (c)(1), CS 22.335 (f)
7.	Environmental Protection	ICAO Annex 16 (details refer to TCDSN EASA.A.627)

C.III Technical Characteristics and Operational Limitations

1.	Type Design Definition	List of drawing files Ventus-3F, Issue July 2021
2.	Description	Single seat, mid-wing non-self-launching powered sailplane, CFRP/GFRP/AFRP-construction, 6-piece 18 m wing with Winglets, chamber changing-flaps, triple-panel Schempp-Hirth type airbrakes on upper wing surface, water ballast tanks in wings and fin (optional), CFRP/GFRP/AFRP-fuselage, retractable main wheel with hydraulic disc brake, T-shaped tail (fixed horizontal stabilizer with elevator, fin and rudder), electric motor with foldable propeller in nose.
3.	Equipment	Min. required Equipment: 1 Air speed indicator (up to 300 km/h) 1 Altimeter 1 Magnetic compass 1 Outside air temperature indicator with sensor (when flying with water ballast) 1 Engine control unit FCU: - RPM indicator - Engine time - Battery level (V meter, A meter) - Motor temperature 1 4-point harness (symmetrical) 1 Automatic or manual parachute or 1 Back cushion (thickness approx. 8 cm when compressed) when flying without parachute Additional equipment refer to Flight and Maintenance Manual
4.	Dimensions	Span: 18,0 m Wing area: 10,84 m^2 Length: 6,63 m
5.	Engine	
	5.1 Model	FES-VEN-M100 Outrunner BLDC brushless synchronous permanent Magnet motor with electronically controlled commutation system 3 phase
	5.2 Type Certificate	accepted as part of the aircraft
	Limitations	Maximum Temperature: 90°C Max. continuous Temperature: 70°C

6.	Propeller	
6.1	Model	FES-VEN-P1-102, traktor type
6.2	Type Certificate	accepted as part of the aircraft
6.3	Number of blades	2
6.4	Diameter	1000 mm +20/- 0mm
6.5	Sense of Rotation	clockwise
6.6	Limitations	4300 RPM max. continuous rotational speed 4500 RPM maximum rotational speed
7.	Fuel capacities	N/A
8.	Launching Hooks	Safety hook Tost “Europa G 88”, LBA Datasheet No. 60.230/2 Nose tow hook Tost “E 85”, LBA Datasheet No. 60.230/2
9.	Weak Links	Ultimate strength: - for winch- and car launch: max. 825 daN - for aero tow: max. 660 daN
10.	Load Factors	+5,3 / -2,65 (up to V_A) +4,0 / -1,5 (up to V_{NE})
11.	Air Speeds	Manoeuvring Speed V_A 180 km/h Never exceed speed V_{NE} 280 km/h Maximum permitted speeds - with flaps at 0, -1, -2, S, S1 V_{FE} 280 km/h - with flaps at +2, +1 V_{FE} 180 km/h - with flaps at L V_{FE} 150 km/h - in rough air V_{RA} 180 km/h - for winch / car launching V_W 150 km/h - for aero towing V_T 180 km/h - for gear operation V_{LO} 180 km/h - for engine operation and for engine start: V_{POmax} 160 km/h
12.	Approved Operations Capability	VFR Day only Cloud flying permitted Aerobatic manoeuvres not permitted
13.	Launch methods	Aero tow Winch launch and car launch
14.	Maximum Masses	Max. Mass: With 18 m Wing Span: 600 kg Max. Mass of non-lifting parts: FES-Batteries installed: 320 kg FES-Batteries removed: 280 kg
15.	Centre of Gravity Range	FES-Batteries installed: 300 mm – 430 mm aft of datum FES-Batteries removed: 290 mm – 430 mm aft of datum
16.	Datum	Wing leading edge at root rib

17. Levelling Means	Wedge 100 : 3,0 on slope of rear top fuselage to be horizontal
18. Control Surface Deflections	Refer to Maintenance Manual
19. Minimum Flight Crew	1
20. Maximum Passenger Seating Capacity	0
21. Baggage/ Cargo Compartments	2 kg
22. Lifetime limitations	Refer to Flight Manual, section 2

C.IV Operating and Service Instructions

1. Flight Manual	Flight Manual Ventus-3F, Issue August 2021
2. Maintenance Manual	Maintenance Manual Ventus-3F, Issue August 2021
3. Structural Repair Manual	Repair Manual for the GFRP/CFRP powered sailplane model “Ventus-3F”, latest applicable issue
4. Manual for the Tost release, latest approved issue	

C.V Notes

1. Manufacturing is confined to industrial production.

2. All parts exposed to sun radiation – except the areas for markings, registration and the cockpit area – must have a white colour surface.

3. Approved for operations with FES-Batteries and/or propeller temporarily removed in accordance with the instructions given in the flight manual.

4. Engine and propeller are accepted as part of the aircraft according to PART 21.A.23(b)(2).

Section D: Ventus-3E

D.I General

1.	Type/ Model/ Variant	
	1.1 Type:	Ventus-3
	1.2 Model:	Ventus-3E
2.	Airworthiness Category	Powered Sailplane, CS 22 - Utility
3.	Manufacturer	Schempp-Hirth Flugzeugbau GmbH Krebenstraße 25 73230 Kirchheim / Teck Germany
4.	EASA Type Certification Application Date	24 July 2023
5.	EASA Type Certification Date	13 June 2025

D.II EASA Certification Basis

1.	Reference Date for determining the applicable requirements	24 July 2023
2.	Airworthiness Requirements	Certification Specifications for Sailplanes and Powered Sailplanes CS 22, Amend. 2, effective on March 5, 2009
3.	Special Conditions	SC.22-2014-01 Installation of Electric Propulsion in sailplanes, SC E-01 Airworthiness Standard for
4.	(Reserved) Deviations	None
5.	Equivalent Safety Findings	CS 22.207 (a) (c), CS 22.335 (f)
6.	Environmental Protection	ICAO Annex 16 (details refer to TCDSN EASA.A.627)

D.III Technical Characteristics and Operational Limitations

1. Type Design Definition

List of drawing files Ventus-3E,
Issue February 2025
2DescriptionSingle seat, mid-wing self-launching powered sailplane, CFRP/GFRP/AFRP-construction, 6-piece 18/15 m wing with Winglets, chamber changing-flaps, triple-panel Schempp-Hirth type airbrakes on upper wing surface, water ballast tanks in wings and fin, CFRP/GFRP/AFRP-fuselage, retractable main wheel with hydraulic disc brake, T-shaped tail (fixed horizontal stabilizer with elevator, fin and rudder), retractable electric motor with fixed propeller.

2. Equipment

Min. required Equipment:
1 Air speed indicator (up to 300 km/h)
1 Altimeter
1 Magnetic compass
1 Outside air temperature indicator with sensor (when flying with water ballast)
1 Engine control unit DCU:
- RPM indicator
- Engine time
- Battery level (V meter, A meter)
- Battery temperature
- Motor temperature
- Controller temperature
1 4-point harness (symmetrical)
1 Automatic or manual parachute
or
1 Back cushion (thickness approx. 8 cm when compressed) when flying without parachute
Additional equipment refer to Flight and Maintenance Manual

3. Dimensions

Span:	15m	18,0 m
Wing area:	9,53 m^2	10,84 m^2
Length:	6,63m	6,63 m

4. Engine

4.1 Model

SOLO 8000/401 System
axial flux motor, 228mm in diameter with two resolvers for determination of RPM and position
Outrunner BLDC brushless synchronous permanent

4.2 Type Certificate

EASA.E.237

4.3 Limitations

Maximum revs.:	3500rpm
Max. continuous revs.:	3200rpm
Max. over speed revs.:	3200rpm
Max. motor temperature:	120°C
Max. power electronics temp.:	85°C

5. Propeller		
	5.1 Model	SHK 1-1
	5.2 Type Certificate	accepted as part of the aircraft
	5.3 Number of blades	2
	5.4 Diameter	1400 mm +10/- 10mm
	5.5 Sense of Rotation	clockwise
	5.6 Limitations	3200 RPM maximum rotational speed
6. Fuel capacities		N/A

7. Battery

Model:	Battery BM384
Battery capacity:	11.2Ah
Non-usable battery capacity:	1.0 Ah(~10%)
Max battery discharge temperature:	70°C
Min battery discharge temperature:	-20°C
Max battery charge temperature:	50°C
Min battery charge temperature:	0°C
Range of permissible cell voltage:	2,5-4,2V

8. Launching Hooks

Safety hook Tost “Europa G 88”, LBA
Datasheet No. 60.230/2
Nose tow hook Tost “E 85”, LBA
Datasheet No. 60.230/2

9. Weak Links

Ultimate strength:
- for winch- and car launch: max. 825 daN
- for aero tow: max. 660 daN

10. Load Factors

+5,3 / -2,65 (up to V_A)
+4,0 / -1,5 (up to V_{NE})

11. Air Speeds

Manoeuvring Speed	V_A	180 km/h
Never exceed speed	V_{NE}	280 km/h
Maximum permitted speeds		
- with flaps at 0, -1, -2, S, S1	V_{FE}	280 km/h
- with flaps at +2, +1	V_{FE}	180 km/h
- with flaps at L	V_{FE}	150 km/h
- in rough air	V_{RA}	180 km/h
- for winch / car launching	V_W	150 km/h
- for aero towing	V_T	180 km/h
- for gear operation	V_{LO}	180 km/h
- for engine operation and for engine start:	V_{POmax}	160 km/h

12. Approved Operations Capability

VFR Day only
Cloud flying permitted
Aerobatic manoeuvres not permitted

13.	Launch methods	Aero tow Winch launch and car launch Self-launch
14.	Maximum Masses	Max. Mass: 600 kg Max. Mass of non-lifting parts: Engine and batteries installed: 365 kg Engine and Batteries removed: 320 kg
15.	Centre of Gravity Range	Engine and Batteries installed: 320 mm – 430 mm aft of datum Engine and Batteries removed: 300 mm – 430 mm aft of datum
16.	Datum	Wing leading edge at root rib
17.	Levelling Means	Wedge 100 : 3,0 on slope of rear top fuselage to be horizontal
18.	Control Surface Deflections	Refer to Maintenance Manual
19.	Minimum Flight Crew	1
20.	Maximum Passenger Seating Capacity	0
21.	Baggage/ Cargo Compartments	2 kg
22.	Lifetime limitations	Refer to Flight Manual, section 2

D.IV Operating and Service Instructions

1. Flight Manual — Flight Manual Ventus-3E, Issue February 2025
2. Maintenance Manual — Maintenance Manual Ventus-3F, Issue February 2025
3. Structural Repair Manual — Repair Manual for the GFRP/CFRP powered sailplane model “Ventus-3E”, latest applicable issue
4. Operating Manual and Maintenance Manual for Engine
   Approved manual for the SOLO Engine 8000/401, latest applicable issue, by SOLO Kleinmotoren GmbH
5. Operating Manual and Maintenance Manual for Propeller
   “Betriebshandbuch für den Propeller SHK 1”, latest applicable issue
6. Manual for the Tost release, latest approved issue

D.V Notes

1. Manufacturing is confined to industrial production.

2. All parts exposed to sun radiation – except the areas for markings, registration and the cockpit area – must have a white colour surface.

3. Approved for operations with power plant temporarily removed or inoperative in accordance with the instructions given in the flight manual.

4. Propeller is accepted as part of the aircraft according to PART 21.A.23(b)(2).

Section E: Administrative Section

E.I Acronyms & Abbreviations

AFRP	Aramid Fibre Reinforced Plastic
CFRP	Carbon Fibre Reinforced Plastic
GFRP	Glass Fibre Reinforced Plastic
CRI	Certification Review Item
CS	Certification Specification
EASA	European Union Aviation Safety Agency
LBA	Luftfahrt-Bundesamt
VFR	Visual Flight Rules

E.II Type Certificate Holder Record

Schempp-Hirth Flugzeugbau GmbH
Krebenstr. 25
73230 Kirchheim / Teck
Germany

E.III Change Record

Issue	Date	Changes	TC Issue No. & Date
01	20 July 2018	Initial Issue	Initial Issue, 20. July 2018
02	01 July 2019	Some editorial and layout changes.	
03	15 November 2019	Addition of new model Ventus-3M	15 November 2019
04	28 April 2021	Introduction of 15m-wingtips for variant Ventus-3T and some editorial changes	n/a
05	15 October 2021	Introduction of modification bulletin 627-1 for Ventus-3M	n/a
06	22 July 2022	Introduction of new model Ventus-3F Introduction of modification bulletin 627-3 for Ventus 3T Some editorial changes	08 June 2022
07	18 June 2025	Addition of new model Ventus-3E	13 June 2025

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