HPH Glasflügel 304



TYPE-CERTIFICATE

DATA SHEET

NO. EASA.A.030

for HPH Glasflügel 304

Type Certificate Holder HPH, spol.s r.o.

Čáslavská 234, 284 01 Kutná Hora CZECH REPUBLIC

For models:

Glasflügel 304 CZ Glasflügel 304 CZ-17 Glasflügel 304 C Glasflügel 304 S Glasflügel 304 MS Glasflügel 304 eS Glasflügel 304 S Jet

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SECTION A: Glasflügel 304 CZ

A.I. General

1.	a) Type: b) Model:	HPH Glasflügel 304 Glasflügel 304 CZ
2.	Airworthiness Category:	Utility
3.	Manufacturer:	HPH, spol.s r.o. Čáslavská 234, 284 01 Kutná Hora CZECH REPUBLIC
4.	Certification Application Date:	March 20, 1996
5.	CAA CZ certification date:	April 2, 1998

6. The EASA Type Certificate replaces the Czech Republic Certificate No. 98-03

A.II. Certification Basis

 Reference Date for determining the applicable requirements: 	March 20, 1996
2. Certification Basis:	As defined by the CAA CZ letter 1941/720- TI/96/Př dated. March 20, 1996
3. Airworthiness Requirements:	Airworthiness Requirements for Sailplanes and powered Sailplanes (LFSM), Edition October 23, 1975
4. Requirements elected to comply:	None
5. EASA Special Conditions:	 Directions for the stress analysis of components for sailplanes constructed from glass fiber reinforced plastic, Edition March 1965 Subpart F and G of Joint Aviation Requirements (JAR 22), change 5, October 28, 1995 JAR 22.375 (change 5)
6. EASA Exemptions:	None
7. EASA Equivalent Safety Findings:	

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A.III. Technical Characteristics and Operational Limitations

1.	Type Design Definition:	- List of Drawings for Sailplane "Glasflügel 304 B" -Amendment of List for "Glasflügel 304 CZ", dated March 1998.
2.	Description:	Single seat mid-wing cantilever sailplane fiber construction, 2-piece wing, trailing edge airbrakes combined with flaps, wing water ballast - polyethylene water ballast tanks, retractable wheel, wheel-brake, tail wheel, T-tail (fixed stabilizer with elevator, fin and rudder), winglets.
3.	Equipment:	Airspeed indicator up to 270 km/h Altimeter 4-piece safety harness Parachute or cushion (thickness approx. 10 cm when compressed)
4.	Dimensions: Span Length Height Wing Area Aspect Ratio:	15.0 m 6.45 m 1.15 m 9.88 m ² 22,78
5.	Launching Hooks:	Nose tow hook "E72", LBA approved - No.:60.230/1 or Nose tow hook " E75", LBA approved - No.:60.230/1or Nose tow hook " E85", LBA approved - No.:60.230/1 Safety C.G. tow hook "SH 72", LBA approved - No.:60.230/3 or Safety C.G. tow hook " Europa G 88", LBA approved - No.:60.230/2.
6.	Weak links:	Ultimate strength: - for winch launching max. 6500 N - for aerotow max. 6500 N
7.	Air Speeds: Manoeuvering Speed V_A Never Exceed Speed V_{NE} , flaps 0,-1,-2 up to 4000 m MSL from 4000 to 5000 m MSL from 5000 to 6000 m MSL from 6000 to 7000 m MSL from 7000 to 8000 m MSL from 8000 to 9000 m MSL from 9000 to 10000 m MSL from 10000 to 12000 m MSL Max. permitted v_{FE} , flaps +1, +2 Rough Air Speed V_{RA} Max. Aerotow Speed V_T Max. Winch-launch Speed V_W	200 km/h IAS 250 km/h IAS 240 km/h IAS 226 km/h IAS 214 km/h IAS 202 km/h IAS 191 km/h IAS 179 km/h IAS 159 km/h IAS 200 km/h IAS 150 km/h IAS



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8.	Operational Capability:		VFR Day		
9.	Maximum Weights: Maximum weight: Maximum weight of non-lifting parts:		450 k 240 k	•	
10.	Centre of Gravity Range:		(200 r Max. in.(32	mm)	on aft of datum: 7.87 in tion aft of datum: 14.17
11.	Datum:		Wing centre		425 mm from the
12.	Levelling Means:			je 100:5,2 on slo horizontal	pe of rear top fuselage
13.	Minimum Flight Crew:		1 (Pilo	ot)	
14.	Maximum Passenger Seating Capacity:				
15.	Lifetime limitations:		Refer	to Maintenance I	Manual
16.	Deflection angles of control surfaces:	Eleva Ruddo Ailero Flap:	er:	up and down right and left: up down up	$\begin{array}{l} 17^{\circ} \pm 2^{\circ} \\ 25^{\circ} \pm 2^{\circ} \\ 23^{\circ} \pm 2^{\circ} \\ 10^{\circ} \pm 2^{\circ} \\ 08^{\circ} \pm 1,5^{\circ} \end{array}$
				down	12° ± 1,5°

A.IV. Operating and Service Instructions

 Flight Manual (FM):
 CAA CZ approved Flight Manual "Glasfügel 304 CZ", Issue of January 1998

 Maintenance Manual (AMM including Airworthiness Limitations): Service manual "Glasfügel 304 CZ" (Maintenance), Issue of January 1998

 Operation instruction for the TOST nose tow release mechanism:

 "E72" and "E75", Issue of May 1975, LBA approved.

 "E72" and "E75", Issue of March 1988, LBA approved - for overhauled tow hook only.

 "E85", Issue of March 1989, LBA approved

 Operation instruction for the TOST safety tow release mechanism:

 "S72" and "SH72, Issue of May 1975, LBA approved.

 "S72" and "SH72, Issue of July 1989, LBA approved – for overhauled tow hook only.

Tost Manual for the launching hook "Europa G 88", Issue of February 1989, LBA approved.



A.V. Notes

- 1. Serial numbers affected.: 4,8,10 and all serial numbers formated XX-15
- 2. Type Certification in Czech Republic: Type Certified on April 2nd 1998 by validation of 7th Revision of Type Certificate No.: 318, approved by LBA on November 28th 1990, and by Additional Certification.
- 3. Only industrial production permitted.
- 4. All external portions exposed to sunlight must be painted white, except of the areas for the registration and anti-collision markings.



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SECTION B: Glasflügel 304 CZ-17

B.I. General

1	۱.	a) Type: b) Model:	HPH Glasflügel 304 Glasflügel 304 CZ-17
2	2.	Airworthiness Category:	Utility
3	3.	Manufacturer:	HPH, spol.s r.o. Čáslavská 234, 284 01 Kutná Hora CZECH REPUBLIC
2	1 .	Certification Application Date:	October 9, 2000
Ę	5.	CAA CZ Certification Date:	October 23, 2000
6	б.	The EASA Type Certificate replaces Czech Re	epublic Type Certificate No. 98-03
<u>B.II.</u>	-	Certification Basis	
		Reference Date for determining applicable requirements:	March 20, 1996
2	2.	Certification Basis:	As defined by the CAA CZ letter 1941/720- TI/96/Př dated. March 20, 1996
3	3.	Airworthiness Requirements:	Airworthiness Requirements for Sailplanes and powered Sailplanes (LFSM), Edition October 23, 1975
Z	ł.	Requirements elected to comply:	None
Ę	ō.	EASA Special Conditions:	 Directions for the stress analysis of components for sailplanes constructed from glass fiber reinforced plastic, Edition March 1965 Subpart F and G of Joint Aviation Requirements (JAR 22), change 5, October 28, 1995 JAR 22.375 (change 5)
-			

- 6. EASA Exemptions: None
- 7. EASA Equivalent Safety Findings: None

B.III. Technical Characteristics and Operational Limitations

1. Type Design Definition:

-List of Drawings for Sailplane " Glasfügel 304 B" -Amendment of List for " Glasfügel 304 CZ", dated March 1998. -Amendment of Drawings for Wing Extentions.

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2.	Description:	Single seat mid-wing cantilever sailplane fi construction,2-piece wing, trailing ed airbrakes combined with flaps, wing wa ballast - polyethylene water ballast tan retractable wheel, wheel-brake, tail wheel, tail (fixed stabilizer with elevator, fin a rudder), interchangeable winglets and w extentions for wing span 17,43 m.		railing edge s, wing water ballast tanks, tail wheel, T- vator, fin and lets and wing
3.	Equipment:	Airspeed indicator Altimeter 4-piece safety han Parachute or cush cm when compres	ness nion (thickness	
4.	Dimensions: Span Length Height Wing Area Aspect Ratio:	15.0 m 6.45 m 1.15 m 9.88 m ² 22,78	optionally optionally or	17,43 m 10,68 m² 28,44
5.	Launching Hooks:	Nose tow hook "E No.:60.230/1 or Nose tow hook " E No.:60.230/1or Nose tow hook " E No.:60.230/1 Safety C.G. tow ho No.:60.230/3 or Safety C.G. tow ho approved - No.:60	E75", LBA appr E85", LBA appr ook "SH 72", L ook " Europa G	oved - oved - BA approved -
6.	Weak links:	Ultimate strength aerotow max. 650		aunching and
7.	Air Speeds: Manoeuvering Speed V _A Never Exceed Speed V _{NE} , flaps 0,-1,-2 up to 4000 m MSL from 4000 to 5000 m MSL from 5000 to 6000 m MSL from 6000 to 7000 m MSL from 7000 to 8000 m MSL from 8000 to 9000 m MSL from 9000 to 10000 m MSL from 10000 to 12000 m MSL Max. permitted v _{FE} , flaps +1, +2 Rough Air Speed V _{RA} Max. Aerotow Speed V _T Max. Winch-launch Speed V _W	180 km/h IAS 250 km/h IAS 240 km/h IAS 226 km/h IAS 202 km/h IAS 191 km/h IAS 179 km/h IAS 159 km/h IAS 180 km/h IAS 150 km/h IAS 150 km/h IAS		
8.	Operational Capability:	VFR Day		
9.	Maximum Weights: Maximum weight Maximum weight of non lifting parts	450 kg 240 kg		



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TCDS No.: EASA.A.030 Issue: 06	HPH Glasf 304 C	•	L	Date: 16 December 2022
10. Centre of Gravity Range:		200 Max 318	. rearward c/g pos	sition aft of datum:
11. Datum:		-	g leading edge y = reline	= 425 mm from the
12. Levelling Means:			ge 100:5,2 on sl e horizontal	ope of rear top fuselage
13. Minimum Flight Crew:		1 (Pi	lot)	
14. Maximum Passenger Seating C	apacity:			
15. Lifetime limitations:		Refe	r to Maintenance	Manual
16. Deflection angles of control surf	Ru	evator: Idder: eron: ap:	up and down right and left: up down up down	$\begin{array}{l} 17^{\circ} \pm 2^{\circ} \\ 25^{\circ} \pm 2^{\circ} \\ 23^{\circ} \pm 2^{\circ} \\ 10^{\circ} \pm 2^{\circ} \\ 08^{\circ} \pm 1,5^{\circ} \\ 12^{\circ} \pm 1,5^{\circ} \end{array}$
B.IV. Operating and Service Inst	ructions			
Flight Manual (FM):	CAA CZ ap Issue of Ma			asfügel 304 CZ-17",
Maintenance Manual (AMM) (Including Airworthiness Limitations): Service manu of March 2000			lasfügel 304 CZ-	17" (Maintenance), Issue
Operation instruction for the TOST nose tow release mechanism:				

"E72" and "E75", Issue of May 1975, LBA approved. "E72" and "E75", Issue of March 1988, LBA approved - for overhauled tow hook only. "E85", Issue of March 1989, LBA approved

Operation instruction for the TOST safety tow release mechanism:

"S72" and "SH72, Issue of May 1975, LBA approved. "S72" and "SH72, Issue of July 1989, LBA approved – for overhauled tow hook only.

Tost Manual for the launching hook "Europa G 88", Issue of February 1989, LBA approved.



B.V. Notes

- 1. Serial numbers affected 1,2,3,5,6,7,9,11,12,14,15,16,17 and all serial numbers formated XX-17
- 2. Sailplane has been approved in compliance with Subpart B of Joint Aviation Requirements (JAR 22), change 5, October 28th 1995 for 17.43 m configuration
- 3. Only industrial production permitted.
- 4. All external portions exposed to sunlight must be painted white, except of the areas for the registration and anti-collision markings.



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SECTION C: Glasflügel 304 C

C.I. General

1.	a) Type: b) Variant:	HPH Glasflügel 304 Glasflügel 304 C
2.	Airworthiness Category:	Utility

3. Manufacturer:

HPH, spol.s r.o. Čáslavská 234, 284 01 Kutná Hora CZECH REPUBLIC

- 4. Certification Application Date: November 15, 2000 5. CAA CZ Certification Date: July 25, 2001
- 6. The EASA Type Certificate replaces Czech Republic Type Certificate No. 98-03

<u>C.II.</u> **Certification Basis**

1. Reference Date for determining the applicable requirements:	March 20, 1996
2. Certification Basis:	As defined by the CAA CZ letter 15511/4081- TI/00/Sh dated 1. March 2000
3. Airworthiness Requirements:	Airworthiness Requirements for Sailplanes and powered Sailplanes (LFSM), Edition October 23, 1975
4. Requirements elected to comply:	None
5. EASA Special Conditions:	- Directions for the stress analysis of components for sailplanes constructed from
	 glass fiber reinforced plastic, Edition March 1965 Subpart F and G of Joint Aviation Requirements (JAR 22), change 5, October 28, 1995 JAR 22.375 (change 5)
6. EASA Exemptions:	1965 - Subpart F and G of Joint Aviation Requirements (JAR 22), change 5, October 28, 1995



C.III. Technical Characteristics and Operational Limitations

	recinical characteristics and Operatio	nai Limitations
1.	Type Design Definition:	-List of Drawings for Sailplane " Glasfügel 304 B" -Amendment of List for " Glasfügel 304 CZ", dated March 1998. -Amendment of List for "Glasfügel 304 C"
2.	Description:	Single seat mid-wing cantilever sailplane fiber construction,2-piece wing, S-H airbrakes, wing water ballast - polyethylene water ballast tanks, retractable wheel, wheel- brake, tail wheel, T-tail (fixed stabilizer with elevator, fin and rudder), interchangeable winglets.
3.	Equipment:	Airspeed indicator up to 270 km/h Altimeter 4-piece safety harness Parachute or cushion (thickness approx. 10 cm when compressed)
4.	Dimensions: Span Length Height Wing Area Aspect Ratio:	15.0 m 6.45 m 1.15 m 9.88 m ² 22,78
5.	Launching Hooks:	Nose tow hook "E72", LBA approved - No.:60.230/1 or Nose tow hook " E75", LBA approved - No.:60.230/1or Nose tow hook " E85", LBA approved - No.:60.230/1 Safety C.G. tow hook "SH 72", LBA approved - No.:60.230/3 or Safety C.G. tow hook " Europa G 88", LBA approved - No.:60.230/2.
6.	Weak links:	Ultimate strength for winch launching and aerotow max. 6500 N
7.	Air Speeds: Manoeuvering Speed V_A , Never Exceed Speed V_{NE} , up to 4000 m MSL from 4000 to 5000 m MSL from 5000 to 6000 m MSL from 6000 to 7000 m MSL from 7000 to 8000 m MSL from 8000 to 9000 m MSL from 9000 to 10000 m MSL from 10000 to 12000 m MSL Rough Air Speed V_{RA} Max. Aerotow Speed V_T Max. Winch-launch Speed V_W	200 km/h IAS 250 km/h IAS 240 km/h IAS 226 km/h IAS 202 km/h IAS 191 km/h IAS 179 km/h IAS 159 km/h IAS 200 km/h IAS 150 km/h IAS



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8.	Operational Capability:		VFRI	Day	
9.	Maximum Weights: Maximum weight Maximum weight of non lifting parts		450 k 240 k	•	
10.	Centre of Gravity Range:		Max. mm		tion aft of datum: 200mm sition aft of datum: 325
11.	Datum:		Wing centre		= 425 mm from the
12.	Levelling Means:			je 100:5,2 on sl horizontal	ope of rear top fuselage
13.	Minimum Flight Crew:		1 (Pilo	ot)	
14.	Maximum Passenger Seating Capacity:				
15.	Lifetime limitations:		Refer	to Maintenance	Manual
16.	Deflection angles of control surfaces:	Elevat Rudde Aileror	er:	up and down right and left: up down	17° ± 2° 25° ± 2° 23° ± 2° 10° ± 2°

C.IV. Operating and Service Instructions

Flight Manual (FM): CAA CZ approved Flight Manual "Glasfügel 304 C", Issue of April 2001

Maintenance Manual (AMM) (Including Airworthiness Limitations): Service manual "Glasfügel 304 C" (Maintenance), Issue of April 2001

Operation instruction for the TOST nose tow release mechanism:

"E72" and "E75", Issue of May 1975, LBA approved. "E72" and "E75", Issue of March 1988, LBA approved - for overhauled tow hook only. "E85", Issue of March 1989, LBA approved

Operation instruction for the TOST safety tow release mechanism:

"S72" and "SH72, Issue of May 1975, LBA approved. "S72" and "SH72, Issue of July 1989, LBA approved – for overhauled tow hook only.

Tost Manual for the launching hook "Europa G 88", Issue of February 1989, LBA approved.



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C.V. Notes

- 1. Serial numbers affected are formated XX-C.
- 2. Sailplane has been approved in compliance with Subpart B of Joint Aviation Requirements (JAR 22), change 5, October 28th 1995 .
- 3. Only industrial production permitted.
- 4. All external portions exposed to sunlight must be painted white, except of the areas for the registration and anti-collision markings.



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SECTION D: GLASFLÜGEL 304 S

D.I. GENERAL

1.	a) Type: b) Model:	HPH Glasflügel 304 Glasflügel 304 S
1.	Airworthiness Category:	Sailplane, JAR 22 – Utility
3.	Manufacturer:	HPH, spol.s r.o. Čáslavská 234, 284 01 Kutná Hora

4. Certification Date

CZECH REPUBLIC 08 December 2014

D.II. CERTIFICATION BASIS

1.	Certification Basis:	CRI A01, 8.1.2004
2.	Airworthiness Requirements:	JAR 22, Amendment 7, 1st September 2003
3.	Requirements elected to comply:	- Standards for Structural Substantiation of Sailplane and Powered Sailplane Components Consisting of Glass or Carbon Fiber Reinforced Plastics - issued July 1991
4.	Environmental Standards:	-
5.	Special Conditions:	-
6.	Exemptions:	-
7.	Equivalent Safety Findings:	-

D.III. TECHNICAL CHARACTERISTICS AND OPERATIONAL LIMITATIONS

1.	Type Design Definition:	304S-09-001 - Drawing list of 304S (issued 23.9.2014 or later) 304S-09-001/B - Drawing list of 304S - altered drawings (issued 23.9.2014 or later)		
2.	Description:	Single-seat, mid-wing sailplane, CFRP/GFRP/AFRP fiber construction, 2-piece wing (with removable wing extensions), camber changing flaps, triple-section SH-type airbrakes on upper wing surface, integral water ballast tanks in the wing and in the fin (option), retractable undercarriage with wheel brake, fixed tailwheel,T-tail with fixed horiz.stabilizer with elevator, fin and rudder, fuselage engine compartment as preparation for later conversion to powered variant, optional flexible water ballast tank in fuselage.		
3.	Equipment:	Minimum equipment: - Airspeed indicator up to 270 km/h - Altimeter - 4-piece safety harness - Parachute or cushion (thickness approx. 10 cm when compressed)		
		Additional Equipment re	efer to Flight and Maintenance Manual	
4.	Dimensions:	Span Wing area Length	18 m 11.8 m² 6.794 m	
5.	Launching Hooks:		G 88", LBA Datasheet No. 60.230/2 2", LBA Datasheet No.11.402/9NTS	
		Remark: Tow hook 1 and 2 optic	nal	
6.	Weak links:	Max. Ultimate Strength	:	
		- for winch and auto max. 780 daN	tow launching	
		- for aero-tow Max. 780 daN		



				serial no: XX-S *) [km/h]	serial no: XX-MS *) [km/h]
7.	Air Speeds:	Manoeuvring Speed	VA	180	200
		Never Exceed Speed	V _{NE}	260	260
		Maximum permitted sp	beeds		
		- with flaps at	+1, +2	200	200
		- with flaps at	L	150	160
		- with flaps at	-2;-1, 0	260	260
		- in rough air	Vra	180	200
		- in aero-tow	VT	150	150
		- in winch-launch - for gear operating	Vw V _{LO}	130 180	130 180
		- Ior gear operating	VLO	100	100
		*) REMARK for designation see No	tes 3 and 4 at D.V.		
8.	Maximum Masses:	Max. Mass		600 kg	600 kg
		Max. Mass of Non-Lifti	ng Parts	278.5 kg	373 kg
9.	Operational Capability	Approved for VFR-flyir	ng in daytime.		
10.	Centre of Gravity Range:	Datum: Wing leading e Leveling means: Wedg horizontal			
		Forward Limit	251 mm aft of datu	m	
		Rearward Limit	387 aft of datum		
11.	Minimum Flight Crew:	1 (Pilot)			
12.	Maximum Seating Capacity:	1			
13.	Lifetime limitations:	Refer to Maintenance	Manual		
14.	Deflection of control surfaces:	Refer to Maintenance	Manual		



D.IV. OPERATING AND SERVICE INSTRUCTIONS

- Flight Manual Flight Manual for the Sailplane Glasflügel 304 S; doc. no.:G304S/AFM; issued 08/14; EASA approved
- Fligt Manual Supplement for saillanes serial no.: XX-S 304S Flight Manual Supplement; doc. no.: 304SFM_Supp_XS; issued 08/14; EASA approved; see D.V.4.
- Technical Manual Technical Description, Operating, Maintenance and Repair Manual for the Sailplane Glasflügel 304S, doc. no.: 304S/MM; issued 08/14
- Manual for Operation:
 a. Operation and Maintenance Manual for Tost tow hook TypeTost E 22, latest approved version

b. Operation and Maintenance Manual for Tost tow hook TypeTost G 88, latest approved version

D.V. NOTES

- 1. Manufacturing is confined to industrial production.
- 2. All parts exposed to sun radiation except the areas for markings and registration must have a white color surface.
- 3. Serial numbers affected are formated XX-MS only if wing serial number formated YY-MS is installed.
- 4. Serial numbers affected are formated XX-S only if wing serial number formated YY-S is installed.

Čáslavská 234, 284 01 Kutná Hora CZECH REPUBLIC

SECTION E: GLASFLÜGEL 304 MS

E.I. GENERAL

4.

1.	a) Type: b) Model:	HPH Glasflügel 304 Glasflügel 304 MS
2.	Airworthiness Category:	Powered Sailplane, JAR 22 - Utility capable for self-launching
3.	Manufacturer:	HPH, spol.s r.o.

Certification Date 08 December 2014

E.II. CERTIFICATION BASIS

1.	Certification Basis:	EASA Acceptance Letter doc. no.: 60032537, 21.6.2013
2.	Airworthiness Requirements:	JAR 22, Amendment 7, 1st September 2003
3.	Requirements elected to comply:	Standards for Structural Substantiation of Sailplane and Powered Sailplane Components Consisting of Glass or Carbon Fiber Reinforced Plastics - issued July 1991
4.	Environmental Standards:	ICAO Annex 16
5.	Special Conditions:	-
6.	Exemptions:	-
7.	Equivalent Safety Findings:	-



E.III. TECHNICAL CHARACTERISTICS AND OPERATIONAL LIMITATIONS

1.	Type Design Definition:	304S-09-001 - Drawing list of 304S (issued 23.9.2014 or later) 304S-09-001/B - Drawing list of 304S - altered drawings (issued 23.9.2014 or later)		
2.	Description:	Single-seat, mid-wing sailplane, CFRP/GFRP/AFRP fiber construction, 2-piece wing (with removable wing extensions), camber changing flaps, triple-section SH-type airbrakes on upper wing surface, integral water ballast tanks in the wing and in the fin (option), retractable undercarriage with wheel brake, fixed or sterable tailwheel (option), T-tail with fixed horiz. stabilizer with elevator, fin and rudder, retractable powerplant.		
3.	Equipment:	Minimum equipment: - Airspeed indicator up to 270 km/h - Altimeter - Magnetic compass - Engine control unit indicating RPMs Coolant liquid temperature Fuel quantity Engine time - Rear-view mirror - 4-piece safety harness - Parachute or cushion (thickness approx. 10 cm when compressed)		
		Additional Equipment ref	fer to Flight	and Maintenance Manual
4.	Dimensions:	Span Wing area Length	18 m 11.8 m² 6.794 m	
5.	Engine Designation:	Solo Type 2625 01 EASA-Datasheet No: TC	DS E.218	
6.	Engine Limits:	Maximum continuous Po at	ower	39 kW 6250 rpm
		Maximum RPM		6700 RPM
7.	Propeller:	KS-1G-152-R 122 Propeller diameter		LBA-Datasheet No. 32.110/18 1580 mm ± 5
8.	Fuel Quantity:	Fixed fuselage tank		13.5
		Tank in stbd. Wing (Opti	on)	11
			-)	441
		Tank in port wing (Option	n)	111



TCD Issue	S No.: EASA.A.030 e: 06	HPH Glasflügel 304 304 MS		Date: 16 December 20	022
9.	Launching Hooks:	1) Safety hook "Europa G 88", LBA Datasheet No. 60.230/2 2) Nose tow hook "E 22", LBA Datasheet No.11.402/9NTS			
		Remark: Tow hook 1 and 2 opti	onal		
10.	Weak links:	Max. Ultimate Strength	า:		
		- for winch and auto max. 780 daN	tow launching		
		- for aero-tow Max. 780 daN			
11.	Air Speeds:	Manoeuvring Speed	VA	20)0 km/h
		Never Exceed Speed	VNE	26	60 km/h
		Maximum permitted sp - with flaps at - with flaps at - with flaps at - in rough air	beeds +1, +2 L -1, 0 VRA	16 26	00 km/h 60 km/h 60 km/h 00 km/h
		- in aero-tow	VT	15	50 km/h
		- in winch-launch - for gear operating	Vw V _{LO}		30 km/h 30 km/h
12.	Maximum Masses:	Max. Mass		60)0 kg
		Max. Mass of Non-Lift	ing Parts	37	′3 kg
13.	Operational Capability	Approved for VFR-flyir	ng in daytime.		
14.	Centre of Gravity Range:	Datum: Wing leading edge y = 425 mm from the centreline Leveling means: Wedge 100:8,77 on slope of rear top fuselage to be horizontal			age to be
		Forward Limit	251 mm aft of	datum	
		Rearward Limit	387 aft of datu	m	
15.	Minimum Flight Crew:	1 (Pilot)			
16.	Maximum Seating Capacity:	1			
17.	Lifetime limitations:	Refer to Maintenance	Manual		
18.	Deflection of control surfaces:	Refer to Maintenance	Manual		



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E.IV. OPERATING AND SERVICE INSTRUCTIONS

- Flight Manual Flight Manual for Powered Sailplane Glasflügel 304 MS; doc. no.:G304MS/AFM; issued 07/14; EASA approved
- Technical Manual Technical Description, Operating, Maintenance and Repair Manual for the Sailplane Glasflügel 304S, doc. no.: 304S/MM; issued 08/14
- 3. Maintenance Manual Supplement for the Sailplane Glasflügel 304MS, doc. no.: 304MS/MM SUP; issued 08/14
- 4. Manual for Operation:
 - a. Operation and Maintenance Manual for Tost tow hook TypeTost E 22, latest approved version
 - b. Operation and Maintenance Manual for Tost tow hook TypeTost G 88, latest approved version
 - c. Manual for SOLO engine type 2625 01, latest approved version

d. Operation and Instalation Manual P3 for Technoflug propeller KS 1 G () () (), latest approved version

E.V. NOTES

- 1. Manufacturing is confined to industrial production.
- 2. All parts exposed to sun radiation except the areas for markings and registration must have a white color surface.
- 3. Serial numbers affected are formated XX-MS only if wing serial number formated YY-MS is installed.
- 4. Approved for operations with the power plant temporarily removed or inoperative in accordance with the instructions given in the MM Sup.

SECTION F: GLASFLÜGEL 304 eS

F.I. GENERAL

1.	a) Type: b) Model:	HPH Glasflügel 304 Glasflügel 304 eS
2.	Airworthiness Category:	Restricted (see F.V. Note 6) Powered Sailplane, JAR 22 - Utility capable for self-sustaining
3.	Manufacturer:	HPH, spol.s r.o. Čáslavská 234, 284 01 Kutná Hora CZECH REPUBLIC
4.	Certification Date	21 November 2016

F.II. CERTIFICATION BASIS

1.	Certification Basis:	CRI A-1 Issue 3, 04 August 2016
2.	Airworthiness Requirements:	JAR 22, Amendment 7, 1st September 2003 CS 22, Amendment 2, 5th March 2009: Subpart H and J
3.	Requirements elected to comply:	Standards for Structural Substantiation of Sailplane and Powered Sailplane Components Consisting of Glass or Carbon Fiber Reinforced Plastics - issued July 1991
4.	Environmental Standards:	-
5.	Special Conditions:	- SC.22-2014-01; Installation of Electric Propulsion in Sailplanes
		- SC E-01; Electrical Engine for powered sailplanes
6.	Exemptions:	-
7.	Equivalent Safety Findings:	-



F.III. TECHNICAL CHARACTERISTICS AND OPERATIONAL LIMITATIONS

1.	Type Design Definition:	304S-09-001 304S-09-001/B	Drawing list of 304S (issued 23.9.2014 or later) Drawing list of 304S - altered drawings (issued 23.9.2014 or later)	
		304eS-09-003	Amendment of List for " Glasflügel 304 eS" (issued 21.11.2016 or later)	
2.	Description:	Single-seat, mid-wing sailplane, CFRP/GFRP/AFRP fiber construction, 2-piece wing (with removable wing extensions), camber changing flaps, triple-section SH-type airbrakes on upper wing surface, integral water ballast tanks in the wing and in the fin (option), retractable undercarriage with wheel brake, fixed tailwheel,T-tail with fixed horiz. stabiliser with elevator, fin and rudder, electric motor and foldable propeller in nose.		
3.	Equipment:	Minimum equipment: - Airspeed indicator up to 270 km/h - Altimeter - Magnetic compass - Engine control unit indicating RPMs Battery level (V meter, A meter) Motor temperature Engine time - 4-piece safety harness - Parachute or cushion (thickness approx. 10 cm when compressed)		
		Additional Equipment re	fer to Flight and Maintenance Manual	
4.	Dimensions:	Span Wing area Length	18 m 11.8 m² 6.794 m	
5.	Engine Designation:	FES-HPH-M100	Outrunner BLDC brushless synchronous permanent magnet motor with electronically controlled commutation system 3 phase. Accepted as part of the aircraft.	
6.	Engine Limits:	Maximum power	23 kW, 200 A at 116 V	
		Maximum continuous power	16 kW at 100 V	
		Maximum RPM non loaded	5300 RPM	
7.	Propeller:	FES-HPH-P1-102	Tractor type, foldable, fixed pitch composite two blades propeller, sense of rotation clockwise in direction of flight. Accepted as part of the aircraft.	
		Propeller diameter	1000 mm +20 -0	
		Maximum RPM	4500 RPM	
8.	Fuel Quantity:	-		

8. Fuel Quantity:



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9.	Launching Hooks:	1) Safety hook "Europa G 88", LBA Datasheet No. 60.230/2 2) Nose tow hook "Europa G 88", LBA Datasheet No. 60.230/2 Remark: Tow hook 1 and 2 optional			
10.	Weak links:	Max. Ultimate Strength: - for winch and auto tow launching max. 780 daN			
		- for aero-tow Max. 780 daN			
				serial no: XX-S *) [km/h]	serial no: XX-MS *) [km/h]
11.	Air Speeds:	Manoeuvring Speed VA	A	180	200
		Never Exceed Speed V	/ _{NE}	260	260
		Maximum permitted spee	ds		
			+1, +2	200	200
		- with flaps at L	_	150	160
		•	2;-1, 0	260	260
		5	/ _{RA}	180	200
			/ _T	150	150
			/w /LO	130 180	130 180
		*) REMARK for designation see Notes	3 and 4 at F.V.		
12.	Maximum Masses:	Max. Mass		571 kg	600 kg
		Max. Mass of Non-Lifting	Parts	305 kg	373 kg
13.	Operational Capability	Approved for VFR-flying in	n daytime.		
14.	Centre of Gravity Range:	Datum: Wing leading edg Leveling means: Wedge ´ horizontal			
		Forward Limit	251 mm aft o	of datum	
		Rearward Limit	387 aft of dat	tum	
15.	Minimum Flight Crew:	1 (Pilot)			
16.	Maximum Seating Capacity:	1			
17.	Lifetime limitations:	Refer to Maintenance Ma	nual		
18.	Deflection of control surfaces:	Refer to Maintenance Ma	inual		

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F.IV. OPERATING AND SERVICE INSTRUCTIONS

1. Flight Manual:

Flight Manual for the Sailplane Glasflügel 304 S;
doc. No. G304S/AFM; revision 0, issued 08/14; EASA approved, including
Flight Manual Supplement for the Sailplane Glasflügel 304 eS;
doc. No. G304eS/AFMSupp; issued 10/16; EASA approved
304S Flight Manual Supplement; doc. no.: 304SFM_Supp_XS, issued 08/14;
with revision R01, 10/16; EASA approved; see F.V.4.

2. Technical Manual:

- Technical Description, Operating, Maintenance and Repair Manual for the Sailplane Glasflügel 304S, doc. No. 304S/MM; issued 08/14 or later approved revision, including - Maintenance Manual Supplement for the Sailplane Glasflügel 304 eS, doc. No. 304eS/MMSupp; issued 10/16 or later approved revision

- 3. Manuals for Operation:
 - a. Operation and Maintenance Manual for Tost tow hook TypeTost G 88, latest approved revision
 - b. FES Motor Manual FES-HPH-M100, v1.21 or later approved revision
 - c. FES Propeller Manual FES-HPH-P1-102, v1.11 or later approved revision
 - d. FES Battery pack GEN2 manual, v1.17 or later approved revision
 - e. FES FCU instrument manual v1.70 or later approved revision
- 4. In oder to comply with the **EASA AD No. AD-2017-0167-E** the sailplane must be equipped by following additional documents which complemets or substitute the original listed in 1, 2 and 3 of this section:
 - Flight Manual Supplement for the Sailplane Glasflügel 304 eS; doc. No. G304eS/AFMSupp; revision 1, issued 11/17 or later approved revision
 - Maintenance Manual Supplement for the Sailplane Glasflügel 304 eS, doc. No. 304eS/MMSupp; revision 1, issued 11/17 or later approved revision
 - Maintenance Manual Supplement for the sailplane Glasflügel 304eS "Repair of battery compartment", doc. No. 304eS/MMSup2, revision 0, dated 11/17 or later approved revision
 - FES Battery pack GEN2 manual v1.19, dated 10/2017 or later approved revision
 - FES FCU instrument manual v1.80, dated 10/2017 or later approved revision



F.V. NOTES

- 1. Manufacturing is confined to industrial production.
- 2. All parts exposed to sun radiation except the areas for markings and registration must have a white color surface.
- 3. Serial numbers affected are formated XX-MS only if wing serial number formated YY-MS is installed.
- 4. Serial numbers affected are formated XX-S only if wing serial number formated YY-S is installed.
- 5. Approved for operations with the power plant temporarily removed or inoperative in accordance with the instructions given in the doc. No. 304eS/MMSupp; issued 10/16.
- 6. Model Glasflügel 304 eS is only eligible for rCofA as engine and propeller are accepted as part of the aircraft according Part 21.A.23(b)(2).



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SECTION G: GLASFLÜGEL 304 S JET

G.I. GENERAL

1.	a) Type: b) Model:	HPH Glasflügel 304 Glasflügel 304 S Jet
2.	Airworthiness Category:	Powered Sailplane, JAR 22 - Utility capable for self-sustaining
3.	Manufacturer:	HPH, spol.s r.o. Čáslavská 234, 284 01 Kutná Hora CZECH REPUBLIC

4. Certification Date

16 December 2022

G.II. CERTIFICATION BASIS

1.	Reference Date for determining the applicable requirements:	20 April 2010
2.	Airworthiness Requirements:	JAR 22, Amendment 7, 1st September 2003 CS 22, Amendment 2, 5th March 2009: for Subpart H
3.	Requirements elected to comply:	Standards for Structural Substantiation of Sailplane and Powered Sailplane Components Consisting of Glass or Carbon Fiber Reinforced Plastics - issued July 1991
4.	Environmental Standards:	CS-34.1 Amdt. 4, Fuel Venting CS-34.2 Amdt. 4, Smoke Number
5.	Special Conditions:	SC01 to SC19, Airworthiness Standard for CS22H Turbine Engine to be operated in Sailplanes
6.	Exemptions:	-
7.	Equivalent Safety Findings:	-



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G.III. TECHNICAL CHARACTERISTICS AND OPERATIONAL LIMITATIONS

1.	Type Design Definition:	304S-09-001 304S-09-001/B	Drawing list of 304S (issued 23.9.2014 or later) Drawing list of 304S - altered drawings (issued 23.9.2014 or later)	
2.	Description:	Single-seat, mid-wing sailplane, CFRP/GFRP/AFRP fibre construction, 2-piece wing (with removable wing extensions), camber changing flaps, triple-section SH-type airbrakes on upper wing surface, integral water ballast tanks in the wing and in the fin (option), retractable undercarriage with wheel brake, fixed tailwheel,T- tail with fixed horiz. stabiliser with elevator, fin and rudder, retractable turbojet engine.		
3.	Equipment:	Minimum equipment: - Airspeed indicator up to 270 km/h - Altimeter - Magnetic compass - Engine control unit indicating Fuel level Power rating EGT Engine time and cycles - 4-piece safety harness - Parachute or cushion (thickness approx. 10 cm when compressed) Additional Equipment refer to Flight and Maintenance Manual		
4.	Dimensions:	Span Wing area Length	18 m 11.8 m² 6.794 m	
5.	Engine Designation:	TJ 42	Single shaft turbojet engine featuring a single stage centrifugal compressor, an annular combustion chamber, a single stage axial turbine and exhaust nozzle. The engine is controlled by a digital electronic control unit. Accepted as part of the aircraft.	
6.	Engine Limits:	Maximum RPM (limited to 5 min)	96 000, nominal thrust 365 N	
		Maximum continuous RPM	92 000, nominal thrust 340 N	
		Maximum Exhaust temperature	850°C	
		Maximum Exhaust temperature (start, max 3s)	1000°C	
7	Deservellen	NOTE: The performance values defined under the	e value specified above corresponds to minimum e conditions of ICAO	
7. 8.	Propeller: Fuel Quantity:	- 33 I	-	



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9.	Launching Hooks:	1) Safety hook "Europa G 8 2) Nose tow hook "Europa C Remark: Tow hook 1 and 2 optional			
10.	Weak links:	Max. Ultimate Strength: - for winch and auto tow 780 daN	launching max		
		- for aero-tow Max. 780 daN			
				serial no: XX-S *) [km/h]	serial no: XX-MS *) [km/h]
11.	Air Speeds:	Manoeuvring Speed V _A		180	200
		Never Exceed Speed V _{NE}	E	260	260
		Maximum permitted speeds - with flaps at +1, - with flaps at L - with flaps at -2;- - in rough air VRA - in aero-tow VT - in winch-launch VW - for gear operating VLC - for powerplant extension a VPC - for powerplant extended o VPC *) REMARK for designation see Notes 3	+2 1, 0 and retraction Dmax peration Dmax	200 150 260 180 150 130 180 140 230	200 160 260 200 150 130 180 140 230
12.	Maximum Masses:	Max. Mass		571 kg	600 kg
		Max. Mass of Non-Lifting Pa	arts	305 kg	373 kg
13.	Operational Capability	Approved for VFR-flying in daytime. Cloud flying and Aerobatic manoeuvres permitted with engine inoperative and retracted.			
14.	Launch methods	Aero tow Winch launch and auto laun Self-launch not permitted	ich		
15.	Centre of Gravity Range:	Datum: Wing leading edge y = 425 mm from the centreline Levelling means: Wedge 100:8,77 on slope of rear top fuselage to be horizontal			
		Forward Limit	251 mm aft o	f datum	
		Rearward Limit	387 aft of dat	um	
16.	Minimum Flight Crew:	1 (Pilot)			

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Maximum Seating Capacity: 1
 Lifetime limitations: Refer to Maintenance Manual
 Deflection of control surfaces: Refer to Maintenance Manual

G.IV. OPERATING AND SERVICE INSTRUCTIONS

- 1. Flight Manual:
 - Flight Manual for the Sailplane Glasflügel 304 S; doc. No. G304S/AFM; revision 2, issue 05/22, or later EASA approved revisions;
 - Flight Manual Supplement for the Sailplane Glasflügel 304 S Jet; doc. No. G304SJet/AFMSupp, Rev. 0, issue 03/20, or later EASA approved revisions;
 - Glasflügel 304S Flight Manual Supplement; doc. no.: 304SFM_Supp_XS, issued 08/14; with revision R01, 10/16; EASA approved; see G.V.4. or later EASA approved revisions;
- 2. Technical Manual:
 - Technical Description, Operating, Maintenance and Repair Manual for the Sailplane Glasflügel 304S, doc. No. 304S/MM; issue 08/14 or later EASA accepted revisions, including
 - Technical Description, Operating, Maintenance and Repair Manual for the Sailplane Glasflügel 304S Jet, doc. No. 304SJet/MMSupp; Rev. 0, issue 03/20 or later EASA accepted revisions;
- 3. Manuals for Operation:
 - a) Operation and Maintenance Manual for Tost tow hook TypeTost G 88, latest EASA accepted revision
 - b) Turbine Operation Manual TJ 42 Jet Engine, doc. no.: TJ42/OPRM, issue 01/18 or later EASA accepted revisions;
 - c) Control unit manuals:

Operation Manual for DIGITAL ENGINE CONTROL UNIT (DECU) Mk1 and ENGINE DATA DISPLAY (EDD) Hardware Standard A, doc.no.: ABC 1.006, issue March 2020 or later EASA accepted revisions; or Operation Manual for DIGITAL ENGINE CONTROL UNIT (DECU) Mk1 and ENGINE DATA DISPLAY (EDD), doc.no.: ABC 1.009, issue March 2020 or later EASA accepted revisions.

G.V. NOTES

- 1. Manufacturing is confined to industrial production.
- 2. All parts exposed to sun radiation except the areas for markings and registration must have a white colour surface.
- 3. Serial numbers affected are formatted XX-MS only if wing serial number formatted YY-MS is installed.
- 4. Serial numbers affected are formatted XX-S only if wing serial number formatted YY-S is installed.
- 5. Approved for operations with the power plant temporarily removed or inoperative in accordance



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with the instructions given in the doc. No. 304SJet/AFMSupp, Rev 0, issued 03/20, or later EASA approved revision.

- 6. The Model Glasflügel 304 S Jet engine is approved as part of this sailplane model in accordance with Part 21.A.21 (a) 3. (B).
- 7. Overhaul and Repair of the turbine engine is prohibited until HPH has established the respective manuals.



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ADMINISTRATIVE SECTION

I. Acronyms

AD	Airworthiness Directive
AFM	Aircraft Flight Manual
C.G.	Centre of Gravity
CAA CZ	Civil Aviation Authority Czech Republic
Supp	Supplement

II. Type Certificate Holder Record

TC Holder	Period
HPH, spol.s r.o.	
Čáslavská 234	
284 01 Kutná Hora	
CZECH REPUBLIC	

III. Change Record

Issue	Date	Changes	TC Issue & Date
01	03 February 2005	Initial issue	03 February 2005
02	08 December 2014	Introduction of models 304 S and 304 MS	08 December 2014
03	21 November 2016	Introduction of model 304 eS	21 November 2016
04	10 May 2017	F.I.3. Airworthiness category "Restricted" highlighted	
05	15 December 2017	F.IV. Implementation of new manual related to corrective action in order to comply with EASA AD No. AD-2017-0167-E + miscellaneous corrections	
06	16 December 2022	Introduction of model 304 S Jet	16 December 2022



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