

TYPE-CERTIFICATE DATA SHEET

UK.TC.A.00034

for

LAK-17

Type Certificate Holder JSC "Sportinė Aviacija ir KO" Pociūnai LT-59327 Prienai Republic of Lithuania

Model(s):	LAK-17A
	LAK-17AT
	LAK-17B FES
	LAK-17B FES mini
	LAK-17A mini
Issue:	1
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Section 1 LAK-17A

I. General a) Type: LAK-17 1. b) Model: LAK-17A c) Sales Designation LAK-17B from Serial No. 201 2. Airworthiness Category: Sailplane, JAR 22 - Utility Manufacturer: 3. JSC "Sportinė Aviacija ir KO" LT-59327 Prienai Republic of Lithuania Lithuanian CAA Type Certification Date: 12 November 1999 4. П. **Certification Basis** 1. **Certification Basis:** JAR 22, Amdt. 5 2. **Airworthiness Requirements:** Joint Airworthiness Requirements for Sailplanes and Powered Sailplanes (JAR 22), effective 28 October 1995 (Amendment 5 of the English original version) CS-22, Amendment 2 published on 5 March 2009Note3 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:** _ **Special Conditions:** 5. _ 6. **Exemptions:** _ Lak-17A - JAR 22.49: NPA 22B-83 and NPA 22C&D-84, 7. **Equivalent Safety Findings:** LAK-17B – none Note 3

III. Technical Characteristic and Operating Limitations

1.	Type Design Definition:	Lithuanian CAA appro	ved List of Draw	vings LAK-17	'A issued	
		19.05.1999 with amen	idment 2002			
		List of Drawings LAK-	17B issued 01.0	2.2012		
2.	Description:	Single seat, mid-wing sailplane, CFRP/GFRP – construction, with flaps, T-tail (fixed horizontal stabilizer with elevator, fin and rudder), Schempp-Hirth type airbrakes on upper wing surface, water ballast tanks in the wing and in the fin, retractable main wheel with mechanical drum brake or hydraulic brake (BERINGER) ^{Note3} . Optional with 15 m and Winglets or wingtip or 18 m wingspan.				
3.	Equipment:	Min. Equipment:				
		1 Air speed indicator	(up to 300 km/h))		
		1 Altimeter				
		1 Outside air temperature indicator with sensor				
		(when flying with water ballast)				
		1 4-Point harness (symmetrical)				
		For Additional Equipm	ent refer to Fligh	nt Manual		
4.	Dimensions:	Span	15,0 m	18,0 m	18,0 m ^{Note3}	
		Wing Area	9,06 m²	9,8 m²	10,32 m ^{2 Note3}	
5.	Launching Hooks:	Safety hook "Europa C	G 88",			
		LBA Data sheet No. 6	0.230/2			
		Aero tow hook and/or	winch/auto-tow l	hook optiona	al:	
6.	Weak links:	Max. Ultimate Strengtl	ו:			
		- for winch and auto to	w launching			
				650 daN	780 daN ^{Note3}	
		- for aero-tow		0.50		
				650 daN	780 daN ^{Note3}	

7.	Air Speeds:	Manoeuvring Speed	VA	205 km/h	190 km/h ^{Note3}
		Never Exceed Speed	V _{NE}	275 km/h	
		Maximum permitted sp	eeds		
		- with flaps at	+1, +2, L	160 km/h	190 km/h ^{Note3}
		- with flaps at	-1, 0	275 km/h	
		- in rough air	Vra	205 km/h	190 km/h ^{Note3}
		- in aero-tow	V _T	160 km/h	
		- in winch-launch	Vw	140 km/h	
		- for gear operating	VLO	205 km/h	
8.	Maximum Masses:	Max. Mass		500 kg	600 kg ^{Note3}
		Max. Mass of Non-Liftir	ng Parts	233 kg	276.3 kg ^{Note3}
9.	Operational Capability	Approved for VFR-flying in daytime.			
10.	Centre of Gravity Range:	Datum: wing leading eo Leveling means: slope	dge at wing root rear top fuselage 1	000:29 horiz	zontal
		Forward Limit	182 mm (206 mm	^{Note3})aft of da	atum point
		Rearward Limit	305 mm (328 mm	^{Note3})aft of d	atum point
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			

- 1. Flight Manual for LAK-17A sailplane, latest approved revision
- 2. Maintenance Manual for the LAK-17A sailplane, latest revision
- 3. Flight Manual for LAK-17B sailplane, latest approved revision^{Note3}
- 4. Maintenance Manual for the LAK-17B sailplane, latest revision^{Note3}
- 5. Operating Instructions for the Tost safety tow release mechanism model "EUROPA G 88", latest approved revision

- 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. From Serial No. 201 aircraft produced have introduced several modifications and data as given above and receive sales designation LAK-17B.

Section 2 LAK-17AT

I. General

2.	а) Туре:	LAK-17
	b) Model:	LAK-17AT
	c) Sales Designation	LAK-17BT from S/N 201 on
3.	Airworthiness Category:	Powered Sailplane, CS 22 - Utility
4.	Manufacturer:	JSC "Sportinė Aviacija ir KO"
		LT-59327 Prienai
		Republic of Lithuania
5.	Application Date:	8 January 2003
6.	EASA Type Certification Date:	21 April 2006
П.	Certification Basis	
1.	Certification Basis:	JAR 22, Lithuanian CAA decision, dated 16 April 2003
2.	Airworthiness Requirements:	Joint Airworthiness Requirements for
		Sailplanes and Powered Sailplanes (JAR 22),
		effective August 01, 2001
		(Amendment 6 of the English original version)
		CS-22, Amendment 2 published on 5 March 2009 ^{Note3}
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:	LAK- none	17AT - JAR 22.207(c _{Note3}	:) Stall warning,	LAK-17BT –	
III.	Technical Characteristic and	l Operating Limitati	ons			
1.	Type Design Definition:	Lithuanian C/ sailplane mod	AA approved List of E del "LAK-17AT", issue	orawings for po March 2006	wered	
		List of Drawir	ngs LAK-17BT issued	25.04.2013		
2.	Description:	Single seat, mid-wing non-self launching powered sailplane CFRP/GFRP/AFRP – construction, 2-piece wing (15m with wingtip of winglet) and with 18m tip extensions (with winglets), double-pane Schempp-Hirth type airbrakes on upper wing surface, water ballas tanks in the wing and in the fin; CFRP/GFRP/AFRP-fuselage retractable main wheel with mechanical drum brake or hydraulic brake (BERINGER) ^{Note3} , tail wheel, T-tail (fixed horizontal stabilizer with elevator, fin and rudder).				
3.	Equipment:	Min. Equipme	ent:			
		1 Air speed i	ndicator (up to 300 ki	n/h)		
		1 Altimeter		,		
		1 Magnetic compass				
		1 Outside air	temperature indicato	or with sensor		
		(when flying	g with water ballast)			
		1 Engine cor	ntrol unit featuring:			
		- RPI	M indicator			
		- Eng	jine hour meter			
		- Fue	l quantity indicator			
		- batt	ery level			
		- cyli	nder head temperatu	re indicator		
		1 Rear view	mirror			
		1 4-Point ha	rness (symmetrical)			
		1 Power sup	ply			
		1 Required p	liacards, check list ar	id Flight Manua	I	
		For Additiona	I Equipment refer to I	-light Manual		
4.	Dimensions:	Span	15,0 m	18,0 m	18,0 m ^{Note3}	
		Wing Area	9,06 m²	9,8 m²	10,32 m ^{2 Note3}	

5.	Engine designation:	Solo 2350			
		LBA Type Certifica	ate Data Sheet No	o. 4603	
6.	Engine Limits:	Max. continuous F	Power	1	19,6 kW at 5500 RPM
		Maximum RPM			6500 RPM
7.	Propellers:	LAK-P4-90, TCDS	S EASA P.014	sitch 57 cm (constant through the
		radius)	i. 90 cm, blade p		
8.	Fluids and Fluid capacities:	Fuselage tank			7,5 I optionally +4,5 I
		Non-usable amou	nt of fuel		
					0,3 I
9.	Launching Hooks:	Safety hook "Euro LBA Data sheet N	pa G 88", lo. 60 230/2		
		Aero tow hook and	d/or winch/auto-to	w hook optior	nal:
10.	Weak links:	Max. Ultimate Strength	:		
		- for winch and auto to	w launching	650 daN	780 daN ^{Note3}
		- for aero-tow		650 daN	780 daN ^{Note3}
11.	Air Speeds:	Manoeuvring Speed	VA	205 km/h	190 km/h ^{Note3}
		Never Exceed Speed	V _{NE}	275 km/h	
		Maximum permitted sp	eeds		
		- with flaps at	+1, +2, L	160 km/h	190 km/h ^{Note3}
		- with flaps at	-1, 0	275 km/h	
		- in rough air	V _{RA}	205 km/h	190 km/h ^{Note3}
		- in aero-tow	VT	160 km/h	

		- in winch-launch	Vw		140 km/h	
		- with power pla	nt extended	Vw	160 km/	/h
		- for extending p	ower plant	VPOmin	90 km/	′h
		- for retracting p	ower plant	V _{POmax}	110 km/	/h
		- for gear operat	ing	VLO	205 km/	/h
12.	Maximum Masses:	Max. Mass			500 kg	600 kg ^{Note3}
		Max. Mass of Non-Li	fting Parts		263 kg	276.3 kg ^{Note3}
13.	Operational Capability	Approved for VFR-fly	ing in daytim	e.		
14.	Centre of Gravity Range:	Datum: wing leading Leveling means: slop	edge at wing e rear top fus	root selage 10	00:29 horiz	zontal
		Forward Limit	182 mm (;	206 mm ^N	^{ote3}) aft of d	latum point
		Rearward Limit	305 mm (:	328 mm ^N	^{lote3}) aft of c	datum point
15.	Minimum Flight Crew:	1 (Pilot)				
16.	Maximum Seating Capacity:	1				
17.	Lifetime limitations:	Refer to Mainter	nance Manua	I		
18.	Deflection angles of control surfaces:	Refer to Mainter	nance Manua	I		

1. Flight Manual for the self-sustaining powered sailplane LAK-17AT, latest approved revision.

- 2. Maintenance Manual for the self-sustaining powered sailplane LAK-17AT, latest revision.
- 3. Flight Manual for the self-sustaining powered sailplane LAK-17BT, latest approved revision.
- 4. Maintenance Manual for the self-sustaining powered sailplane LAK-17BT, latest revision.
- 5. Manual for engine model SOLO 2350, issued by engine manufacturer Solo Kleinmotoren GmbH latest approved revision.
- 6. Operation and installation manual for propeller LAK-P4-90, issued by manufacturer JSC "Sportinė Aviacija ir KO", latest approved revision.
- 7. Operating Instructions for the Tost safety tow release mechanism model "EUROPA G 88", latest revision.

- 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. From Serial No. 201 aircraft produced have introduced several modifications and data as given above and receive sales designation LAK-17BT.

I. General

2.	а) Туре:	LAK-17
	b) Model:	LAK-17B FES
	c) Sales Designation	
_		
3.	Airworthiness Category:	Powered Sailplane, CS 22 - Utility
4	Manufacturer:	ISC. Sportinė Aviacija ir KO"
ч.		I T-50327 Prienzi
		Republic of Lithuania
5	Application Date:	19 January 2011
0.		
6.	EASA Type Certification Date:	31 October 2014
II.	Certification Basis	
1.	Certification Basis:	CRI A-1. 31 October 2014
2.	Airworthiness Requirements:	
		CS-22, Amendment 2 published on 5 March 2009
2	Deguinements elected to comply	Standarda for Structural Substantiation
э.	Requirements elected to comply.	of Scilplana and Dowardd Scilplana
		Components consisting of Glass of Carbon
		Fiber Reinforced Plastics, issued July 1991
4	Environmontal Standards	
4.		-
5.	Special Conditions:	Installation of Electric Proppulsion in Sailplanes CRI E-101
		Electric Engine for powered sailplanes CRI H-101
6.	Exemptions:	-

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1.	Type Design Definition:	List of Drawings LAK-17B FES issued 27.05.2014			
2.	Description:	Single seat, mid-wing non-s CFRP/GFRP/AFRP – cons wingspan (with winglets), de airbrakes on upper wing surfa and in the fin; CFRP/GFRP/ wheel with hydraulic brake (Bl horizontal stabilizer with eleva	elf launching powered sailplane, truction, 2-piece wing of 18m puble-panel Schempp-Hirth type ce, water ballast tanks in the wing AFRP-fuselage, retractable main ERINGER), tail wheel, T-tail (fixed ator, fin and rudder).		
3.	Equipment:	Min. Equipment:			
		 Air speed indicator (up to 3 Altimeter Magnetic compass Outside air temperature inde (when flying with water balla Engine control unit featuring RPM indicator Engine hour meter battery level (V meter temperature indicator 4-Point harness (symmetric) Power supply Required placards, check light 	00 km/h) licator with sensor list) g: er, A meter) or of motor cal) st and Flight Manual		
4.	Dimensions:	Span	18,0 m		
		Wing Area	10,32 m ²		
5.	Engine designation:	FES-LAK-M100 (accepted as The brushless DC motor, diar length 100 mm, motor weight	part of the aircraft) neter of the rotor 180 mm, motor 7.3 kg.		
6.	Engine Limits:	Maximum power	22 kW, 190A at 116V		
CDS	No.: UK.TC.A.00034		lss		

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Copies of this document are not controlled.

7.

III.

Equivalent Safety Findings:

Technical Characteristics and Operational Limitations

		Max. continuous F	Power	16 kW
		Maximum RPM		4500 RPM
7	Dropolloro) (accorted as new	t of the circroft)
7.	Propeners:	Type of propeller - at direction of fligh power on a propel 4500 RPM, propel 200 hours.	tractor, sence of t, propeller diame ler shaft 23 kW, m ler blade mass 0,2	rotation- clokwise looking ter 100 cm, maximum aximum rotational speed 24 kg, total service time
8.	Fluids and Fluid capacities:		I	N/A
9.	Launching Hooks:	Safety hook "Euro LBA Data sheet N	pa G 88", o. 60.230/2	
		Aero tow hook and	d/or winch/auto-to	w hook optional:
10.	Weak links:	Max. Ultimate Strength - for winch and auto tov	: v launching	
			Ũ	780 daN
		- for aero-tow		780 daN
11.	Air Speeds:	Manoeuvring Speed	Va	190 km/h
		Never Exceed Speed	V _{NE}	275 km/h
		Maximum permitted sp	eeds	
		- with flaps at	+1, +2, L	190 km/h
		- with flaps at	-1, 0	275 km/h
		- in rough air	Vra	190 km/h
		- in aero-tow	VT	160 km/h
		- in winch-launch	Vw	140 km/h

		- with power plant extended	l Vw	160 km/h	
		- for extending power plant	VPOmin	80 km/h	
		- for retracting power plant	VPOmax	160 km/h	
		- for gear operating	VLO	205 km/h	
12.	Maximum Masses:	Max. Mass		600 kg	
		Max. Mass of Non-Lifting Parts		276.3 kg	
13.	Operational Capability	Approved for VFR-flying in daytime.			
14.	Centre of Gravity Range:	Datum: wing leading edge at wing root Leveling means: slope rear top fuselage 1000:29 horizont			
		Forward Limit 206 mm	aft of dat	um point	
		Rearward Limit 328 mm	aft of datu	um point	
15.	Minimum Flight Crew:	1 (Pilot)			
16.	Maximum Seating Capacity:	1			
17.	Lifetime limitations:	Refer to Maintenance Man	lal		
18.	Deflection angles of control surfaces:	Refer to Maintenance Man	lal		

- 1. Flight Manual for the self-sustaining powered sailplane LAK-17B FES, latest approved revision.
- 2. Maintenance Manual for the self-sustaining powered sailplane LAK-17B FES, latest revision.
- 3. FES-LAK-M100 motor manual, issued by engine manufacturer JSC "Sportine aviacija ir Ko" latest approved revision.

- 4. FES-LAK-P10-100 propeller manual, issued by manufacturer JSC "Sportinė Aviacija ir KO", latest approved revision.
- 5. Operating Instructions for the Tost safety tow release mechanism model "EUROPA G 88", latest approved revision.

For compliance with EASA AD 2017-0167-E the sailplane has to operated and maintened in accordance with the following documents:

- 1. Flight Manual for the LAK-17B FES sailplane, at revision 3, or later approved revisions.
- 2. Maintenane Manual for the LAK-17B FES sailplane, at revision 5, or later accepted revisons.
- 3. FES FCU instrument manual, at version 1.80, dated 18 Dec 2017, or later EASA approved revions issued by JSC "Sportine aviacija ir Ko"
- 4. FES Battery Pack GEN2 manual, at version 1.19, dated 18 Dec 2017, or later EASA accepted revisions issued by JSC "Sportine aviacija ir Ko"
- 5. FES BMS control manual, at version1.21, dated 18 Dec 2017, or later EASA accepted revisions issued by JSC "Sportine aviacija ir Ko"
- 6. FES-LAK-M100 motor manual, at version 1.41, dated 18 Dec 2017, or later EASA approved revisions issued by JSC "Sportine aviacija ir Ko"
- 7. FES-LAK-P10-100 Propeller manual. at version 1.0, dated 18 Dec 2017, or later EASA approved revisions issued by JSC "Sportine aviacija ir Ko"
- 8. Operating Instructions for the Tost safety tow release mechanism model "EUROPA G 88", latest approved revision.

- 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. Engine and propeller are accepted as part of the aircraft according Part 21.A.23(b)(2)
- 4. As of 22 December 2020 the model (all serials) is eligable for a standard Certificate of Airworthiness (CofA). Restricted CofA issued before that date remain valid.

Section 4 LAK-17B FES mini

General I.

I. C	eneral	
2.	а) Туре:	LAK-17
	b) Model:	LAK-17B FES mini
	c) Sales Designation	LAK-17B FES mini
3.	Airworthiness Category:	Powered Sailplane, CS 22 - Utility
4.	Manufacturer:	JSC "Sportinė Aviacija ir KO"
		LT-59327 Prienai
		Republic of Lithuania
5.	Application Date:	27 April 2016
6.	EASA Type Certification Date:	22 December 2020
11.	Certification Basis	
1.	Reference date for determining the applicable requirements:	27 April 2016
2.	Airworthiness Requirements:	CS-22, Amendment 2 published on 5 March 2009
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

Richtlinien zur Führung des Festigkeitsnachweises für Bauteile aus glasfaser- und kohlenstofffaserverstärkten Kunststoffen von Segelflugzeugen und Motorseglern, Ausgabe Juli 1991.

- **Environmental Standards:** 4.
- **Special Conditions:** 5.

Installation of Electric Propulsion in Sailplanes CRI E-101

Refer to TCDSN

- 6. Exemptions:
- 7. Equivalent Safety Findings: ESF-F22.925-01 (Propeller clearance)

III. Technical Characteristics and Operational Limitations

- 1. Type Design Definition: List of Drawings LAK-17B FES mini issued 18 Dec 2020
- 2. Description: Single seat, mid-wing self launching powered sailplane, CFRP/GFRP/AFRP – construction, 13,5 m wing with winglet, double-panel Schempp-Hirth type airbrakes on upper wing surface, water ballast tanks in the wing and in the fin; CFRP/GFRP/AFRP-fuselage, retractable main wheel with hydraulic brake (BERINGER), tail wheel, T-tail (fixed horizontal stabilizer with elevator, fin and rudder).
- **3. Equipment:** Min. 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
 - battery level (V meter, A meter)
 - temperature indicator of motor
 - 1 4-Point harness (symmetrical)
 - 1 Power supply
 - 1 Required placards, check list and Flight Manual
 - For Additional Equipment refer to Flight Manual
- 4. Dimensions:
 Span
 13,5 m

 Wing Area
 8,41 m²
- 5. Engine designation:

FES-LAK-M100 (accepted as part of the aircraft)

		The brushless DC motor, diameter of the rotor 180 mm, motor length 100 mm, motor weight 7.3 kg.			
6.	Engine Limits:	Maximum power		22 kW, 190A at 116V	
		Max. continuous Powe	r	16 kW	
		Maximale Dauerleistung			
		Maximum RPM		4500 RPM	
		Maximale Drehzahl			
7.	Propellers:	FES-LAK-P10-100 (acc	cepted as pa	rt of the aircraft)	
		Type of propeller - tract at direction of flight, pro power on a propeller sh 4500 RPM, propeller bl 200 hours.	Type of propeller - tractor, sence of rotation- clokwise looking at direction of flight, propeller diameter 100 cm, maximum power on a propeller shaft 23 kW, maximum rotational speed 4500 RPM, propeller blade mass 0,24 kg, total service time 200 hours.		
8.	Fluids and Fluid capacities:			N/A	
9.	Launching Hooks:	Safety hook "Europa G	88",		
		LBA Data sheet No. 60	.230/2		
		Aero tow hook and/or v	vinch/auto-to	w hook optional:	
10.	Weak links:	Max. Ultimate Strength:			
		- for winch and auto tow lau	nching	500 daN	
		- for aero-tow		500 daN	
11.	Air Speeds:	Manoeuvring Speed	VA	170 km/h	
		Never Exceed Speed	V _{NE}	230 km/h	
		Maximum permitted speeds			
		- with flaps at	+1, +2, L	170 km/h	
		- with flaps at	-1, 0	230 km/h	
		- in rough air	Vra	170 km/h	
		- in aero-tow	VT	160 km/h	
		- in winch-launch	Vw	140 km/h	

- for engine operation	V_{PE}	160 km/h
- min. speed for engine start	V _{POmin}	80 km/h
- max. speed for engine start	V _{POmax}	160 km/h
- for gear operating	VLO	170 km/h

12.	Maximum Masses:	Max. Mass		350 kg
		Max. Mass of Non-Liftir	ng Parts	274 kg
13.	Operational Capability	Approved for VFR-flyin	g in daytime.	
14.	Launch methods:	Aero tow		
		Winch launch and auto Self-launch	(car) launch	
15.	Centre of Gravity Range:	Datum: wing leading edge at wing root		
		Leveling means: slope	rear top fuselage 1	000:29 horizontal
		Forward Limit	182 mm aft of dat	tum point
		Rearward Limit	305 mm aft of dat	um point
16.	Minimum Flight Crew:	1 (Pilot)		
17.	Maximum Seating Capacity:	1		
18.	Lifetime limitations:	Refer to Maintena	nce Manual	
19.	Deflection angles of control surfaces:	Refer to Maintena	nce Manual	

- 1. Flight Manual for the self-launching powered sailplane LAK-17B FES mini, issue 2, dated 18 December 2020, or later EASA approved revision.
- 2. Maintenance Manual for the self-launching powered sailplane LAK-17B FES mini, issue 2, dated 18 Dec 2020, or later EASA accepted revision.
- 3. Operating Instructions for the Tost safety tow release mechanism model "EUROPA G 88", latest approved revision.
- 4. FES FCU instrument manual, at version 1.80, dated 18 Dec 2017, or later EASA approved revions issued by JSC "Sportine aviacija ir Ko"
- 5. FES Battery Pack GEN2 manual, at version 1.19, dated 18 Dec 2017, or later EASA accepted revisions issued by JSC "Sportine aviacija ir Ko"
- 6. FES BMS control manual, at version1.21, dated 18 Dec 2017, or later EASA accepted revisions issued by JSC "Sportine aviacija ir Ko"
- 7. FES-LAK-M100 motor manual, at version 1.41, dated 18 Dec 2017, or later EASA approved revisions issued by JSC "Sportine aviacija ir Ko"
- 8. FES-LAK-P10-100 Propeller manual. at version 1.0, dated 18 Dec 2017, or later EASA approved revisions issued by JSC "Sportine aviacija ir Ko"
- 9. Operating Instructions for the Tost safety tow release mechanism model "EUROPA G 88", latest approved revision.

- 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. Engine and propeller are accepted as part of the aircraft according Part 21.A.23(b)(2)
- 4. This powered sailplane is considered as self-launchable sailplane but not as TMG i.a.w. FCL.010.

I. General

2.	a) Type:	LAK-17
	b) Model:	LAK-17A mini
	c) Sales Designation	LAK-17A mini
3.	Airworthiness Category:	Powered Sailplane, CS 22 - Utility
4.	Manufacturer:	JSC "Sportinė Aviacija ir KO" LT-59327 Prienai Republic of Lithuania
5.	Application Date:	26 May 2016
6.	EASA Type Certification Date:	30 June 2021
II.	Certification Basis	
1.	Reference date for determining the applicable requirements:	26 May 2016
2.	Airworthiness Requirements:	CS-22, Amendment 2 published on 5 March 2009
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:	n/a
5.	Special Conditions:	n/a
6.	Exemptions:	n/a

7.	Equivalent	Safety	Findings:	
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III. Technical Characteristics and Operational Limitations

1.	Type Design Definition:	List of Drawings LAK-17A mini is	sued 18 Dec 2020
2.	Description:	Single seat, mid-wing sailplane, 13,5 m wing with winglet, d airbrakes on upper wing surfa and in the fin; CFRP/GFRP/AFR with hydraulic brake (BERINGER stabilizer with elevator, fin and ru	CFRP/GFRP/AFRP – construction, louble-panel Schempp-Hirth type ace, water ballast tanks in the wing P-fuselage, retractable main wheel R), tail wheel, T-tail (fixed horizontal idder).
3.	Equipment:	Min. Equipment:	
		1 Air speed indicator (up to 300	km/h)
		1 Altimeter	
		1 Magnetic compass	
		1 Outside air temperature indica (when flying with water ballast)	tor with sensor
		1 4-Point harness (symmetrical)	
		1 Power supply	
		1 Required placards, check list a	and Flight Manual
		For Additional Equipment refer to	o Flight Manual
4.	Dimensions:	Span	13,5 m
		Wing Area	8,41 m²

n/a

5.	Launching Hooks:	Safety hook "Europa G 88",		
		LBA Data sheet No. 60.230/2		
		Aero tow hook and/or winch/a	uto-tow hoo	k optional:
6.	Weak links:	Max. Ultimate Strength:		
		- for winch and auto tow la	unching	500 daN
		- for aero-tow		500 daN
7.	Air Speeds:	Manoeuvring Speed	VA	170 km/h
		Never Exceed Speed	V _{NE}	230 km/h
		Maximum permitted speeds		
		- with flaps at	+1, +2, L	170 km/h
		- with flaps at	-1, 0	230 km/h
		- in rough air	V _{RA}	170 km/h
		- in aero-tow	VT	160 km/h
		- in winch-launch	Vw	140 km/h
		- for gear operating	Vlo	170 km/h
8.	Maximum Masses:	Max. Mass		350 kg
		Max. Mass of Non-Lifting Part	s	274 kg
9.	Operational Capability	Approved for VFR-flying in day	ytime.	
10.	Launch methods:	Aero tow	aunch	
TCDS Date: AW-DA	No.: UK.TC.A.00034 13 April 2022 W-TP-004	winch launch and auto (Car) la	aunch	

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11.	Centre of Gravity Range:	Datum: wing leading edge at wing root Leveling means: slope rear top fuselage 1000:29 horizontal	
		Forward Limit	182 mm aft of datum point
		Rearward Limit	305 mm aft of datum point
12.	Minimum Flight Crew:	1 (Pilot)	
13.	Maximum Seating Capacity:	1	
14.	Lifetime limitations:	Refer to Maintena	nce Manual
15.	Deflection angles of control surfaces:	Refer to Maintena	nce Manual

- 1. Flight Manual for the LAK-17A mini sailplane, issue 1, dated 02 July 2020, or later EASA approved revision.
- 2. Maintenance Manual for the LAK-17A mini, issue 1, dated 09 July 2020, or later EASA accepted revision.
- 3. Operating Instructions for the Tost safety tow release mechanism model "EUROPA G 88", latest approved revision.

- 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.

Section 6 Administration

I. Acronyms and Abbreviations

Acronym / Abbreviation	Definition
AFRP	Aramid Fibre Reinforced Plastic
CFRP	Carbon Fibre Reinforced Plastic
GFRP	Glass Fibre Reinforced Plastic
CS	Certification Specification
CAA	Civil Aviation Authority
EASA	European Union Aviation Safety Agency
FES	Front Electric Sustainer
g	Load Factor
kg	Kilogram
L	Litres
LBA	Luftfahrt-Bundesamt
min	Minute
RPM	Revolutions per minute
ТС	Type Certificate
TCDS	Type Certificate Data Sheet
ТСН	Type Certificate Holder
VFR	Visual Flight Rules

TCH Record

JSC "Sportinė Aviacija ir KO" Pociūnai LT-59327 Prienai Republic of Lithuania

III. Amendment Record

TCDS	TCDS Issue	Changes	TC Issue and
Issue No.	Date		Date
1	13 Apr 2022	This data sheet supersedes EASA.A.083. All technical data as per EASA.A.083 Issue 9 with no changes. Editorial changes (EASA Issue 7), introduction of model LAK-17A mini (EASA Issue 8) and editorial corrections (EASA Issue 9)	Issue 1 13 Apr 2022

– END –

Period

Present. No changes.