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SECTION A1: GENERAL, L-33 SÓLO Type Design

A1. General

Data Sheet No.: EASA.A.045	Issue: 02	Date: 30 May 2006
1. a) Type:	L – 33 SÓLO	
b) Variant:	L – 33 SÓLO	
2. Airworthiness Category:	Utility	
3. Type Certificate Holder:	Aircraft Industries, a.s Na Záhonech 1177 686 04 Kunovice CZECH REPUBLIC	
4. Manufacturer:	from S/N 930101 to S/N 010519 LET, a. s. 686 04 Kunovice 1177 CZECH REPUBLIC from S/N 020520 LETECKÉ ZÁVODY a.s. 686 04 Kunovice 1177 CZECH REPUBLIC	
5. Certification Application Date:	June 14, 1991	
6. CAA CZ Type Certification Date:	December 31, 1992	
7. EASA Type Certification Date:	12 August 2005 (see Note 1)	
8. The EASA Type Certificate replaces:	Czech Type Certificate No.: 92-12	

A11. Certification Basis

1. Reference Date for determining the the applicable requirements:	---
2. Certification Basis:	---
3. Airworthiness Requirements:	Joint Aviation Requirements for Sailplanes and Powered Sailplanes JAR-22, change 4, May 7, 1987
4. Requirements elected to comply:	None
5. EASA Special Conditions:	None
6. EASA Exemptions:	None
7. EASA Equivalent Safety Findings:	None

All. Technical Characteristics and Operational Limitations

1. Type Design Definition: Drawing No. G 010 010 N
2. Description:

The glider is a cantilever single seater of all-metal structure with a T tail unit. The fuselage is oval section. The one part canopy can be tilted to the right. The landing gear consists of non-retractable main landing gear with hydro-pneumatic shock absorber and non-retractable tail wheel. The wing is of one-spar design without stringers. The plan shape is a combination of a rectangle and trapezoid. The wing is equipped with a simple air brake and with ailerons of sandwich design. The fin is two-spar all metal design fixed to the aft part of the fuselage. At the top of the vertical tail plane the horizontal tail plane attachment points are located. The metal rudder has a fabric covering. The stabilizer is of one part, two-spar trapezoid plan shape with the elevator of sandwich design without trim tab.
3. Equipment:

airspeed indicator
altimeter
four-pieces safety harnesses
automatic or manual parachutes
magnetic compass
variometer
4. Dimensions:

Span	14.12	m
Length	6.62	m
Height	1.43	m
Wing Area	11.0	m ²
Aspect Ratio	18.12	
5. Launching Hooks:

Nose tow hook " E85", LBA approved - No.:60.230/1
Safety C.G. tow hook " Europa G 88", LBA approved - No.:60.230/2
6. Weak links: ---
7. Air Speeds:

Maneuvering speed	V _A	158	km/h	IAS
Never exceeded speed	V _{NE}	248	km/h	IAS
Maximum winch-launching speed	V _w	130	km/h	IAS
Maximum aero-towing speed	V _T	158	km/h	IAS
Rough air speed	V _{RA}	158	km/h	IAS
8. Operational Capability: VFR Day flying

9. Maximum Weight:	340 kg			
10. Centre of Gravity Range:	21 % – 39 % M.A.C. (M.A.C. = 0.824 m)			
11. Leveling Means:	Leveling points No. 2 and 3 on fuselage.			
12. Minimum Flight Crew:	1 (Pilot)			
13. Maximum Passenger Seating Capacity:	---			
14. Lifetime limitations:	Refer Maintenance Manual			
15. Datum:	Leveling point No. 1 on fuselage.			
16. Deflection angles of control surfaces:				
	Elevator	up	25°	+ 1°
		down	15°	+ 1°
	Ailerons	up	26°	+ 1°30'
		down	15°	± 1°
	Rudder	left, right	25°	+ 2°
	Air brakes	up	70 mm	± 5 mm
17. Load factors:	- 2.65; + 5.3	up to 158 km/h		
	-1.5; + 4.0	up to 248 km/h		

AIV. Operating and Service Instructions

1. Flight Manual:

- In Czech language: Letová příručka L 33 SÓLO, Do-L33.1011.1
- In English language (for the USA): Sailplane Flight Manual L 33 SOLO, Do-L33.1012.3
- In English language (for Canada): Sailplane Flight Manual L 33 SOLO, Do-L33.1012.5
- In English language (for Argentina): Sailplane Flight Manual L 33 SOLO, Do-L33.1012.6
- In German language: Flughandbuch L 33 SOLO, Do-L33.1012.4

2. Maintenance Manual:

- In Czech language: Do-L33.1031.1
- In English language: Do-L33.1031.3
- In German language: Do-L33.1031.4

3. Illustrated Parts Catalogue:

- In Czech language: Katalog dílů a montážních jednotek L 33 SÓLO, Do-L33-2051.0
- In English language: Illustrated Parts Catalogue L 33 SOLO, Do-L33-2051.0

4. Operating Manuals for Tow Releases:

- In German and English language:
 - Operating Manual for Nose Tow Releases TOST “Europa E 85”
 - Operating Manual for Safety Tow Releases TOST “Europa G 88”

AV. Notes

1. This aircraft were transferred to EASA on Accession of the Czech Republic ('grandfathered').

SECTION A2: Reserved

Change record

Issue 1: initial issue

Issue 2: change in the address of the TC holder