

European Aviation Safety Agency

EASA

TYPE-CERTIFICATE DATA SHEET

AL-30

Tethered Gas Balloon

Type Certificate Holder:
Aeronautical Center Augur Ltd

Aeronautical Center Augur
4 Stepana Shutova st., blv. 1
Moscow
RUSSIA

Manufacturer:
Aeronautical Center Augur Ltd

Aeronautical Center Augur
4 Stepana Shutova st., blv. 1
Moscow
RUSSIA

Variants: N/A

Issue 1: 10 June 2005

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SECTION 2: CHANGES/VARIANTS

(Reserved)

SECTION 1: AL-30

I. General

1. Data Sheet No.: EASA BA.007	Issue Date: 10 June 2005
2. a) Type	AL-30
b) Variant	N/A
3. Airworthiness Category	Standard Class
4. Type Certificate Holder	Aeronautical Centre Augur 4 Stepana Shutova st., bld. 1 Moscow RUSSIA
5. Manufacturer	Aeronautical Center Augur 4 Stepana Shutova st., bld. 1 Moscow RUSSIA
6. National Certification Application Date	7 May 2001
7. ENAC Application Date	18 May 2001
8. ENAC Recommendation Date	20 May 2005
9. EASA Type Certification Date	10 June 2005
10. TCDS History	NA

II. Certification Basis

1. Reference Date for determining the applicable requirements:	18 May 2001
2. ENAC Type Certificate Data Sheet No.	NA
3. National Type Certification	Russian Civil Aviation Authority (IAC) Type Certificate 207-AL-30, dated 27 June 2002, and Data Sheet dated 27 June 2002, Ed. 01.
4. Certification Basis:	CRI A-01, Issue 3, dated 1 July 2004
	(a) Airworthiness Requirements: FAR 31, Amdt. 31-5, excepting the following para. as Not Applicable to Tethered Balloon design:
31.17	Performance - Climb
31.19.a.2 & 3	Performance – Uncontrolled descent
31.27.c	Strength (gondola)
31.45	Fuel cells
31.46	Pressurised fuel system
31.47	Burners
31.49.c	Control system (gas)
31.49.d & e	Control system (hot air)
31.51	Ballast
31.53	Drag rope
31.61	Static discharge
31.63	Safety belts
31.65	Position lights
31.81(a)(3)(ii), (iii)	Operating Limitations & Information - Free Climb

- | | |
|--------------------------------------|--|
| 31.85.b | Required basic equipment (hot air) |
| 31.85.c | Required basic equipment (gas) |
| (b) Elected to comply requirements | |
| 31.19.a.2 | Performance – Uncontrolled descent |
| 31.49.c | Control system (gas) |
| 31.51 | Ballast |
| (c) Special Conditions | |
| SC-01 | Load Cell (CRI C-01) |
| SC-02 | Additional Requirements for Tethered Balloons (CRI D-02) |
| SC-03 | Equipment, Systems and Installations of Tethered Balloons (CRI D-01) |
| SC-04 | Additional Italian Requirements for Operation (CRI F-01) |
| (d) Exemptions: None | |
| (e) Equivalent Level of Safety: None | |
| (f) Environmental Standards: None | |

III. Technical Characteristics and Operational Limitations

- | | |
|---------------------------|---|
| 1. Type Design Definition | Rep. "AL-30 Type Design Definition"
AL30.0000-ODB3 dated 16.2.2004. |
| 2. Description/Dimensions | |
| 2.1. Envelope | The envelope of this balloon has a cutting volume of 3050 m ³ and is filled with helium as lifting gas. Internally it is equipped with a ballonnet of 480 m ³ pressurised by an electric fan. The envelope is equipped with six automatic/electric controlled gas valves and a relief overpressure gas valve. A rip panel is also installed on the top of the envelope. |
| 2.2. Gondola | The annular shaped gondola is of metallic construction. It has a capacity of 18 occupants, with two doors and an external net above the passenger rail. |
| 2.3. Winch | The balloon is connected, by means of a steel cable, to an electric powered winch (model LAL-30), which controls the descent and the climb speed. |
| 3. Equipment | See Flight Manual, Sect. 9 |
| 4. Maximum Altitude | 150 m |
| 5. Occupants | Maximum 17 Pax + 1 Pilot
Minimum 1 Pilot |
| 6. Mass | Maximum Mass 2426 Kg

Load cell cable force range:
Maximum 2600 Kg
Minimum 500 Kg |
| 7. Life Limited Parts | See Flight Manual, Sect. 10 |

IV. Operating and Service Instructions

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|-----------------------|--|
| 1. Flight Manual | Document AL30.0000-0.P3, Ed. 2004 (See Note 1) |
| 2. Maintenance Manual | See Flight Manual, Sect. 11 |

V. Notes

1. For operation of the Winch, refer to the Flight Manual, Sect. 6.
2. For maintenance of the Winch, refer to Maintenance Manual, Sec. 6.

SECTION 2: Changes/Variants

(Reserved)