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), Operating Limitations & Information -  
       (iii) Free Climb
III. Technical Characteristics and Operational Limitations

1. Type Design Definition
   Rep. "AL-30 Type Design Definition"

2. Description/Dimensions
   2.1. Envelope
   The envelope of this balloon has a cutting volume of 3050 m³ and is filled with helium as lifting gas. Internally it is equipped with a ballonet of 480 m³ 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

1. Flight Manual
   Document AL30.0000-0.P3, Ed. 2004 (See Note 1)
   
   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)