



**AGÊNCIA NACIONAL DE AVIAÇÃO CIVIL - BRASIL**

**TYPE CERTIFICATE DATA SHEET No. ER-2007T04**

Type Certificate Holder:

**AGUSTA S.p.A.**

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**ITALY**

ER-2007T04-03

Sheet 01

AGUSTA

AB139, AW139

14 July 2009

This data sheet, which is part of Type Certificate No. 2007T04, prescribes conditions and limitations under which the product, for which the Type Certificate was issued, meets the airworthiness requirements of the Brazilian Aeronautical Regulations.

**I - Model AB139, AW139 (Transport Category A and B Rotorcraft), approved on 12 April 2007.**

**ENGINE** Two (2) Pratt & Whitney Canada Inc. PT6C-67C.

**FUEL SPECIFICATION** For all Temperatures Jet A-1, Jet A, JP5, JP8, JP8+100.

**INSTALLED ENGINE LIMITS**

	Max torque Lbft (Nm)	Max ITT °C	Max gas gen. speed (rpm)	Max Output Shaft speed (rpm)
OEI 2 1/2	400 (542)	835	40 500	21 000 (21 420) <sup>(1)</sup>
OEI Continuous	350 (475)	775	39 100	21 000 (21 420) <sup>(1)</sup>
Take off 5 min	275 (373)	775	39 100	21 000 (21 420) <sup>(1)</sup>
Max. Continuous	250 (339)	735	38 200	21 000 (21 420) <sup>(1)</sup>

(1) for Category A take off and landings below 90KIAS and for external hoist and cargo hook operations.

**ROTOR LIMITS**

Power Off		Power On	
Maximum	116 %	Maximum	106 %
Minimum	90 %	Minimum	95 %

**AIRSPEED LIMITS** Never Exceed Speed (VNE) 167 KIAS.  
VNE Power OFF 147 KIAS.  
See Rotorcraft Flight Manual for variation with altitude and temperature.

**CG LIMITS** See Rotorcraft Flight Manual.

**ALTITUDE LIMITS** 20 000 ft pressure or density whichever comes first.

**MAXIMUM WEIGHTS**

Maximum Weight	6 400 kg (14 110 lb)
Taxi and Ramp	6 450 kg (14 220 lb)
Take Off	6 400 kg (14 110 lb)
Landing	6 400 kg (14 110 lb)

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<b>MINIMUM CREW</b>	1 for VFR/IFR
<b>PASSENGERS</b>	15
<b>MAXIMUM BAGGAGE</b>	200 kg (441 lb)
<b>FUEL CAPACITY</b>	Total: 1 588 L Unusable: 20 L
<b>OIL CAPACITY</b>	8.0 L
<b>CONTROL SYSTEM RIGGING</b>	See Maintenance Manual.
<b>SERIAL NUMBERS ELIGIBLE</b>	The only aircraft eligible for import into the United States are those aircraft with the 4-displays configuration defined in Agusta Report No. 139G0000P005/02, "AB139 Type Design Definition – 4 Display Configuration," and Report No. 139G0000P005/03, "AW139 Type Design Definition – Long Nose Configuration." Agusta reports 139G0000P005/02 and 139G0000P005/03 are volumes 2 and 3 of the basic Agusta report 139G0000P005, "AB139- Type Design Definition," Rev. H, dated 07 June 2007.
<b>DATUM</b>	See Maintenance Manual.
<b>LEVELING MEANS</b>	See Maintenance Manual.
<b>IMPORT REQUIREMENTS</b>	<p>A Brazilian Certificate of Airworthiness may be issued on the basis of a Certificate of Airworthiness for Export issued by ENAC or by the FAA (or a third country Certificate of Airworthiness for Export, in case of used aircraft imported from such country), including the following statement:</p> <p>"The rotorcraft covered by this Certificate has been inspected, tested and found to comply with the Brazilian approved type design as defined by the ANAC Type Certificate No 2007T04, and is in condition for safe operation."</p>
<b>CERTIFICATION BASIS</b>	<p>Brazilian Type Certificate No. 2007T04 issued on 12 April 2007 based on the ANAC Report No. H.10-2210-00 (or further revisions) "Brazilian Requirements for Acceptance of the Agusta Helicopter Model AB139 And AW139" and RBHA 21.29, which establishes as certification basis for the aircraft the following:</p> <p>RBHA 29 corresponding to 14 CFR Part 29, effective 01 February 1965, including Amendments 29-1 through 29-82.</p> <p>Appendix B to RBHA/14 CFR Part 29 Amendment 29-40.</p> <p>RBHA/14 CFR Part 36, Appendix H, Amd. 36-1 through Amd. 36-25.</p> <p>Special Condition made in accordance with 14 CFR Part 21.16 is as follows:</p> <p>FAA Special Condition No. 29-0010-SC, High Intensity Radiated Fields (HIRF), dated 19 Feb. 2004.</p> <p>Equivalent Level of Safety Findings issued against:</p> <ol style="list-style-type: none"><li>1. RBHA/14 CFR Part 29.1305 as documented in AB139 FAA Memo dated 20 December 2004; and</li><li>2. RBHA/14 CFR Part 29.1321 as documented in AB139 FAA Memo dated 20 December 2004.</li></ol>

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**CERTIFICATION BASIS (Cont.)** Plus Equivalent Level of Safety Findings issued against:

1. ENAC CRI-E-03 – Designated Fire Zone;
2. ENAC CRI-F-10 – EPIC System; and
3. ENAC CRI F-11 – Power Index.

**EQUIPMENT**

The basic required equipment as prescribed in the applicable airworthiness regulations must be installed in the helicopters for certification, and, in addition, those equipments established in the Report No H.10-2210-00 or further revisions.

Refer to the approved Rotorcraft Flight Manual for other approved mandatory equipments.

**DATA PERTINENT TO ALL MODELS**

**NOTES:**

**NOTE 1** Weight and balance.

Current weight and balance report including loading instructions and list of equipment included in the certificated empty weight, must be provided for each helicopter at the time of original airworthiness certification.

**NOTE 2** Marking and placards.

All placards indicated in the Rotorcraft Flight Manual must be installed in the appropriate location.

**NOTE 3** Continuing airworthiness.

Information essential to the proper maintenance of the helicopter is contained in the Manufacturer's Maintenance Manual provided with each helicopter.

Life limited components and associated retirement times are presented in Chapter 4 and must be replaced in accordance therewith.

Maintenance Manual consists in:

Maintenance Planning Information 39-A-AMPI-00-P; and  
Maintenance Publication 39-A-AMP-00-P.

**NOTE 4** Differences of the Brazilian basic type design in relation to the basic EASA type design.

The differences of the Brazilian basic type design in relation to the basic EASA type design are summarized in the variant 3G0206P00411 which includes

- 1) The markings and placards; and
- 2) The cross feed fuel line protection.

**NOTE 5** Model designation.

AW139 and AB139 are two names for the same product. They identify two batches of aircraft manufactured in conformity with a unique Type Certificate Data Sheet. Where not specifically declared, the content of this document is applicable to both AW139 and AB139.

Applicable Serial Numbers are:

- S/N 31001 to S/N 31054: AB139 designation, manufactured by Agusta S.p.A. in Italy.
- S/N 31055 to S/N 31200: AW139 designation, manufactured by Agusta S.p.A. in Italy.
- S/N 31201 to 31999: AW139 Long Nose Configuration, manufactured by Agusta S.p.A. in Italy.
- S/N 41001 to S/N 41200: AW139 designation manufactured by Agusta in USA.
- S/N 41201 to 41999: AW139 Long Nose Configuration, manufactured by Agusta Aerospace Corporation (AAC) in USA.

- NOTE 6** The installation of the restraint net anchoring system P/N 3G2550F00113 and the restraint net P/N 3G2550F00311 permits the maximum load to be carried in the baggage compartment to be increased to 300 Kg. For detailed information refer to the Supplement n° 31 of the Rotorcraft Flight Manual.
- NOTE 7** Operation of the aircraft with MTOW up to 6 800 kg is permitted according to RFM 139G0290X002 sup 50 if kit P/N 4G0000F0011 is installed.

  
**ADEMIR ANTÔNIO DA SILVA**  
Gerente-Geral de Certificação de Produto Aeronáutico  
(Manager, Aeronautical Product Certification)

*Hélio Tarquinio Junior*  
Certificação de Produto Aeronáutico  
Gerente Geral - Substituto