

*Ministry of Transport and Communication of Ukraine*  
*State Aviation Administration*

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SAA

**TYPE CERTIFICATE DATA SHEET № TB 0018**

**EC 120B**

**Type Certificate Holder:**

**EUROCOPTER**

Aéroport International Marseille Provence, 13725  
Marignane Cedex, France

**Models:**

**EC 120B**

Issue 1, 06 October 2009

This Data Sheet which is integral part of Type Certificate № TB 0018 prescribes the conditions and limitations under which the product(s) for which the Type Certificate was granted meet(s) the airworthiness requirements stated in Certification basis mentioned in this Data Sheet.

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MODEL: EC 120 B

JAA Type certificate issuance date: 19 June 1997

JAA application date: 6 May 1994

SAA Application date: 24 June 2008

SAA Type certificate date: 06 Oct 2009

Original Type Design Standard: Report DMD C 000A0761 E01 Issue B

Dimensions

Fuselage	Length : 9.60 m
	Width : 2.07 m
	Height : 3.40 m
Main rotor :	3 blades - diameter : 10 m
Tail rotor :	8 blades - diameter : 0.75 m

Engine 1 turbine engine ARRIUS 2F manufactured by Turbomeca (see engine Data Sheet n°M22)  
SAA Type Certificate № ТД 0040

Fuel Refer to RFM for approved fuels and additives  
Fuel capacity - total : 410.5 litres  
- usable : 406 litres

Oil Refer to RFM for approved engine and gearbox oils

Installed engine limits

Ratings	Gas generator Speed (NG) <sup>(1)</sup>	Exhaust gas Temperature (T4) <sup>(2)</sup>
Max transient (5 s)	103.6%	900°C
Max take-off (5 min)	101%	870°C
Max Continuous	99.5%	830°C

Note : (1) 100% : 54 117 rpm  
(2) Max Continuous during starting : 800°C

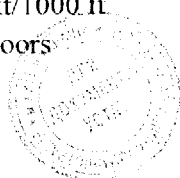
Transmission torque limits

Max transient : 110%  
Max Take off : 103%  
Max Continuous : 97%

Note : 100% : 300 Kw at 406 rpm

Airspeed limits

VNE power on : 150 kt at sea level less 3 kt/1000 ft  
VNE power off : 120 kt at sea level less 3 kt/1000 ft  
Refer to RFM for approved airspeed with doors



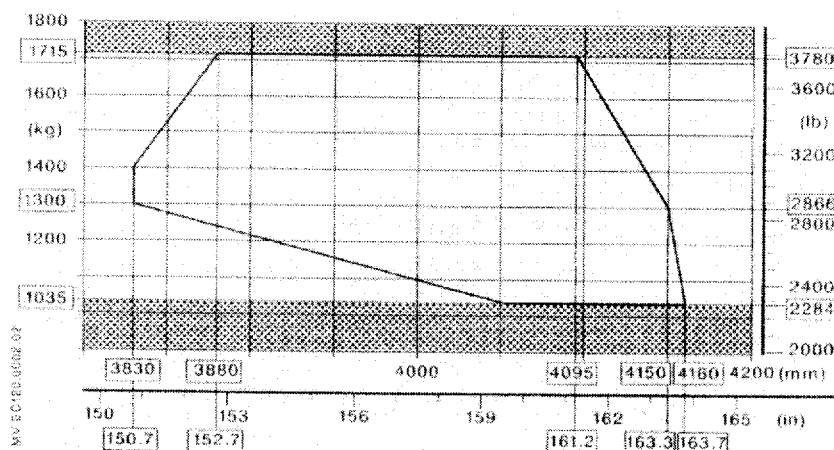
open or removed

Rotor speed limits

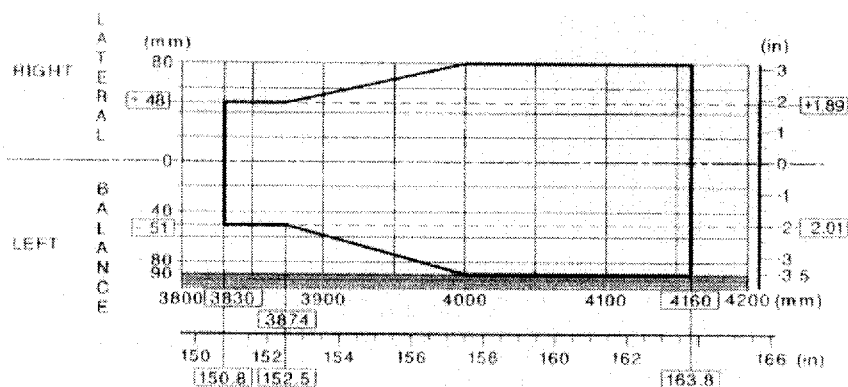
Normal range power on : 390 to 415 rpm  
 Maximum power off : 447 rpm (aural warning : 420 rpm)  
 Minimum power off : 340 rpm (aural warning : 370 rpm)

C.G. range

Longitudinal :



Lateral :



Maximum take-off weight

1715 kg (3777 lb)

Minimum crew

1 pilot

Maximum passenger

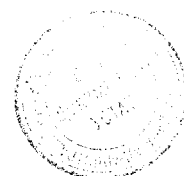
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Passenger emergency exit

one door on each side of the fuselage

Maximum Baggage/Cargo loads

Baggage floor: 300 kg/m<sup>2</sup>



	Cockpit floor : 300 kg/m <sup>2</sup>
<u>Maximum operating pressure altitude</u>	20 000 ft
<u>Maximum take off and landing pressure altitude</u>	2000 ft or 20 000 ft (see Required equipment note [a] )
<u>Operational limits:</u>	Day VFR Night VFR ( see Required equipment note [b] ) Flights under icing conditions, freezing rain and aerobatic manoeuvres are prohibited
<u>C.G. reference</u>	Longitudinal : 4m forward of main rotor head Lateral : symmetrical plane of the aircraft
<u>Levelling means :</u>	mechanical floor
<u>JAA Design Organisation Approval of Eurocopter</u>	Reference F.JA.01 dated 12.9.1996, re-issued 12.09.2002
<u>Certification basis :</u>	(defined in CRI A1) JAR 27 First Issue dated September 06, 1993 Special Condition : HIRF Equivalent safety findings on : - Main gear box oil filter by pass - Powerplant instrument marking AR-27 «Airworthiness requirements for normal category rotorcraft»
<u>Production basis</u>	Production by Eurocopter under JAA « Production Organisation Approval » N° F.G.003 since 22.12.1997.
<u>Serial number</u>	1001 and following, except S/N 1004
<u>Required equipment</u>	As per compliance with JAR 27 requirements and included in the original Type Design Standard
Note :	[a] Max take-off and landing Hp= 20 000ft permitted when change A00075 and SB 32.001 have been embodied to the aircraft (use Flight Manual issue 2 + ITR 3C or FM subsequent issues) [b] Night VFR operation permitted when SB 34.001 has been embodied to the aircraft (use Flight Manual issue 2 + ITR 3E or FM subsequent issues).
<u>Required documents</u>	Flight Manual (in English)  EC 120B Flight Manual (original issue approved by DGAC-F 19 June 1997) at issue 2 (approved by DGAC-F 19 March 1998) or subsequent issues



Airworthiness Limitations (in English)

- with effect from 19 June 1997,  
EC 120B Aircraft Maintenance Manual - chapter 04  
(original issue approved by DGAC-F, 19 June 1997) at  
issue 1 (approved by DGAC-F, 30 March 1998)
- with effect from 12 March 1999,  
EC 120B Master Servicing Manual - chapter 04, original  
issue approved by DGAC-F, 12 March 1999 or  
subsequent issues

Other documents

MEL: there is a Master Minimum Equipment  
List approved by DGAC-F (original issue dated 02.06 or  
subsequent issues)

Repair Manual: there is no approved Repair Manual

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Head of Aeronautical Products  
Type Certification Department



S. Haidenko

