



European Aviation Safety Agency

EASA

**TYPE-CERTIFICATE
DATA SHEET**

No. EASA.IM.A.172

for

Hawker Beechcraft Model 4000

**Type Certificate Holder:
Hawker Beechcraft Corporation**

9709 E. Central
Wichita, Kansas 67201
USA

Airworthiness Category: Large Aeroplanes

For Models: Model 4000

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SECTION 1: HAWKER BEECHCRAFT MODEL 4000

I. General

- | | |
|---------------------------------------|--|
| 1. Type/Model/Variant | Hawker Beechcraft Model 4000 |
| 2. Performance Class | A |
| 3. Certifying Authority | Federal Aviation Authority (FAA)
Wichita Aircraft Certification Office
1801 Airport Rd, Room 100
Wichita, KS 67209
USA |
| 4. Manufacturer | Hawker Beechcraft Corporation
9709 E. Central
Wichita, Kansas 67206
USA |
| 5. FAA Certification Application Date | 31 December 2001 |
| 6. EASA Validation Application Date | 31 December 2001
(Regulation EC 1702/2003, Part 21, §21A.17) |
| 7. FAA Type Certification Date | 21 November 2006 |
| 8. EASA Type Validation Date | 03 May 2010 |
| 9. Eligible Serial Numbers | |

The EASA Type Certificate has been established for Aircraft Serial Numbers RC-18, RC-20 and after. Aircraft RC-7 through RC-17 and RC-19 are not in compliance with the EASA defined certification basis and do not conform to the EASA approved Type Definition (see Section 1.III.1).

For eligible serial number a/c, before initial acceptance for registration under the EASA type certification basis compliance must be established to the full list of required kits as identified in addendum 5 of the type definition.

SECTION 1: HAWKER BEECHCRAFT MODEL 4000 - continued

II. Certification Basis

1. Reference Date for determining the applicable requirements

01 August 2000

2. FAA Type Certification Data Sheet No.

T00013WI

3. FAA Certification Basis

FAR Part 25 Amendment 25-1 through 25-105 and 25.856 at amendment 25-111, as amended by the G-1 Issue Paper (detailed in the FAA TCDS).

4. EASA Airworthiness Requirements

JAR 25 Change 15 (except as noted below)

5. Special Conditions

Issued in accordance with Paragraph 16 of JAR 21:

CRI C-01	Sustained Engine Imbalance
CRI C-02	Engine and APU Load Condition
CRI C-03	Interaction of Systems and Structure
CRI C-04	Ground Gust
CRI C-05	Flight Test Load Measurement
CRI C-06	Flight Control Jams
CRI C-08	Towbarless Towing
CRI C-09	Crashworthiness
CRI C-10	Emergency Landing
CRI C-11	Composite Structure
CRI C-12	Secondary Bonded Structure
CRI C-17	High Alt Decompression
CRI C-19	Vibration and Buffet
CRI C-20	Design Manoeuvres, Pitch Manoeuvre
CRI C-21	Design Manoeuvres, Electronic Systems
CRI C-22	Taxi, Take Off and Landing Roll
CRI C-23	Gust Loads
CRI C-24	Structural Flammability Resistance
CRI D-01	Towbarless Towing
CRI D-03	Doors
CRI D-07	Post Crash Fire - Composite Fuselage
CRI D-08	In-Flight Fire - Composite Fuselage
CRI D-14	High Altitude Operation, Cabin Heat Load
CRI F-01	HIRF

6. Exemptions

None

SECTION 1: HAWKER BEECHCRAFT MODEL 4000 - continued

7. Deviations

None

8. Equivalent Safety Findings

Requested in accordance with Paragraph 21 of JAR 21:

CRI D-06	Entry Door Water Barrier
CRI D-09	Frangible Lavatory Door
CRI D-11	Gust Lock
CRI D-12	Exit Sign Size
CRI E-01	Thrust Reversers
CRI F-10	Hydraulic Functional testing
CRI F-11	Standby Instruments
CRI G-01	Digital Display of Secondary Engine Parameters
CRI G-02	Non-Essential APU Flight Deck Instrumentation

9. Elect to Comply Requirements

25.723	Shock absorption tests (CS-25 Amdt 1)
25.791	Passenger Information Signs and Placards (CS-25 Amdt 1)
25.981(a)(3)	Fuel Tank Ignition (CS-25 Amdt 1) See Note 5
25.1435	Hydraulic Systems (CS-25 Amdt 1)

10. Environmental Protection Standards

See Type Certificate Data Sheet for Noise EASA.IM.A.172

III. Technical Characteristics and Operational Limitations

1. Type Design Definition

4000E0951 Revision 16 including Addendum 5 for EASA specific requirements.

2. Description

The Model 4000 is a twin engine, swept wing, super mid-sized executive jet with a design maximum take-off weight of 39,500 lbs (17,916 Kgs). The maximum operating speed is 350 kts (Mach 0.84) and maximum operating altitude of 45,000ft. The aeroplane is powered by two Pratt & Whitney Canada turbofan engines (PW308A) with a maximum sea level takeoff thrust rating of 6,904 lbs. The airframe is an all metallic wing and composite fuselage and composite/ metallic empennage. The aeroplane is fitted with the Honeywell Primus EPIC Avionics System and is designed for 2 crew and up to 10 passengers.

SECTION 1: HAWKER BEECHCRAFT MODEL 4000 - continued

3. Equipment

The equipment must be installed as established by the applicable requirements. Hawker Model 4000 FAA and EASA Master Minimum Equipment List RA-4000 R1a (or later approved revision).

4. Engines

Two Pratt and Whitney Canada (P&WC) PW308A Turbofan Powerplants (EASA Engine Type Certificate No. EASA.IM.E.057)

5. Auxiliary Power Unit

Honeywell 36-150 HH APU
Refer to applicable approved manuals for servicing information.

6. Propellers

None

7. Fluids (Fuel, Oil, Additives, Hydraulics)

Conforming to Pratt & Whitney company specifications CPW 204, refer to the limitations section of the EASA approved Airplane Flight Manual (AFM).

8. Fluid Capacities

Density: 0.8 kg/litre or 6.7 lbs/US gal

Tank	Capacity, US gal (litre)	Usable Fuel
LH	1094.7 (4143.9)	1090.1 (4126.5)
RH	1094.7 (4143.9)	1090.1 (4126.5)

Unusable Fuel	77.5 lbs (35.2 kg) total
Drainable	61.6 lbs (28.0 kg)
Undrainable	15.9 lbs (7.2 kg)

9. Airspeed Limits

6,904 lbs (Standard day)	Takeoff static thrust at sea level
6,904 lbs (Standard day)	Maximum continuous thrust at sea level

10. Flight Envelope

Refer to EASA approved AFM

SECTION 1: HAWKER BEECHCRAFT MODEL 4000 - continued

11. Operating Limitations

12.1 Approved Operations

Eligible for the following kinds of operation when the appropriate equipment and instruments required by the operation requirements are installed, approved and operating as defined by the MMEL:

- Category 1
- VFR (Visual)
- IFR (Instrument)
- Day
- Night
- Icing
- Enhanced Surveillance
- RVSM

12.2 Other Limitations

Refer to EASA approved AFM, Airplane Maintenance Manual 401-590001-0015 (AMM), and Airworthiness Limitations Manual 401-590001-0024 (ALM).
See Notes 2 and 3

12. Maximum Certified Masses

Max Ramp Weight	39,700 lbs (18,007 kg)
Max Takeoff Weight	39,500 lbs (17,916 kg)
Max Landing Weight	33,500 lbs (15,195 kg)
Max Zero Fuel Weight	26,000 lbs (11,793 kg)

13. Centre of Gravity Range

Refer to EASA approved AFM

14. Datum

Refer to FAA TCDS.

15. Mean Aerodynamic Chord (MAC)

Refer to FAA TCDS.

16. Levelling Means

Refer to FAA TCDS.

17. Minimum Flight Crew

Two (2): one (1) pilot and one (1) co-pilot

SECTION 1: HAWKER BEECHCRAFT MODEL 4000 - continued

18. Maximum Seating Capacity

See Note 1. The aircraft is certified for carriage of 10 passengers provided approved seating arrangement and related required passenger provisions are incorporated in accordance with the EASA Certification Basis

19. Baggage/Cargo Compartment

Cargo compartment loading must be accomplished in accordance with limitations as outlined in Weight and Balance Manual.

IV. Operating and Service Instructions

1. Airplane Flight Manual (AFM)

401-590001-0035 Revision A1 (or later approved EASA revision)
401-590001-0078 (for a/c serial number RC-59 and after, or prior a/c serial numbers with Kit 401-3007 or 401-3008 or 401-3027 or 401-3028 installed for Block Point Upgrade A.
(See Note 6)

2. Instructions for Continued Airworthiness and Airworthiness Limitations

Service Information:

Service Bulletins and Continuing Airworthiness Instructions (AMM 401-590001-0015 Chapter 4) containing the statement that the document is approved by the USA FAA are accepted by EASA according to the EASA Certification Basis and the EASA approved Type Design of the aeroplane.

Maintenance Instructions:

Information essential to the proper servicing and maintenance of the aircraft is contained in the Instructions for Continued Airworthiness, Model 4000 AMM Maintenance Manual 401-590001-0015 Revision A7, April 2010, or later revision.

Airworthiness Limitations:

Mandatory replacement times, structural inspection intervals, and related structural inspection procedures and Certification Maintenance Requirements are presented in the approved Airworthiness Limitations Section of the Instructions for Continued Airworthiness, Chapter 4, Model 4000 AMM 401-590001-0015 A7 (or later EASA approved revision) (See Note 4).

3. Weight and Balance Manual (WBM)

Hawker Model 4000 Weight & Balance Manual,
For Weight and Balance information, refer to the appropriate FAA Approved Weight and Balance Manual.

SECTION 1: HAWKER BEECHCRAFT MODEL 4000 - continued

V. Notes

- NOTE 1: The aircraft type certified at the Hawker Beechcraft factory is in a "without passenger interior" configuration and carriage of passengers or baggage is prohibited. The "with passenger interior" configuration includes up to ten passengers and baggage approved by STC or equivalent approval method.
- NOTE 2: Aircraft without passenger interior are limited to 100 flight hours.
- NOTE 3: The Model 4000 has been approved for high altitude operations. Any modifications to the pressure vessel must be approved in accordance with the requirements as shown in the certification basis. This included modifications which could result in a pressure vessel opening, such as the loss of an antenna, greater than 4.35 square inches.
- NOTE 4: Certification Maintenance Requirements (CMR) are found in the Airworthiness Limitations Manual Chapter Four (4). Engineering approval of the CMRs is documented in report 4000E285673, Certification Maintenance Requirements.
- NOTE 5: For Aeroplane Flight Manual from serial number RC-59 or prior a/c fitted with kit SB28-3950.
- NOTE 6: For aeroplanes registered in EASA Member States primarily using metric units, metric supplement P/N 401-590001-0091 Volumes 1 of 2 and 2 of 2 may be carried onboard instead of P/N 401-590001-0078 Performance Volumes 2 of 3 and 3 of 3 with Imperial units.

SECTION: ADMINISTRATIVE

I. Acronyms and Abbreviations

AFM	Airplane Flight Manual
ALM	Airworthiness Limitations Manual
AMM	Airplane Maintenance Manual
APU	Auxiliary Power Unit
CMR	Certification Maintenance Requirements
CRI	Certification Review Item
CS	Certification Specification
EC	European Commission
EASA	European Aviation Safety Agency
FAA	Federal Aviation Administration
FAR	Federal Aviation Regulation
HIRF	High Intensity Radiated Field
ICA	Instructions for Continued Airworthiness
ICAO	International Civil Aviation Organization
IFR	Instrument Flight Rules
JAA	Joint Aviation Authorities
JAR	Joint Aviation Requirements
MMEL	Master Minimum Equipment List
RVSM	Reduced Vertical Separation Minima
SC	Special Condition
STC	Supplemental Type Certificate
TC	Type Certificate
TCDS	Type Certificate Data Sheet
VFR	Visual Flight Rules
WBM	Weight and Balance Manual

II. Type Certificate Holder Record

Hawker Beechcraft Corporation
9709 E. Central
Wichita, Kansas 67206
USA

III. Change Record

Issue	Date	Changes	TC issue
03	30/01/2012	Section 1.II.9: Additional Elect to Comply. Section 1.III.12.2: Deletion of specific AFM reference. Section 1.IV.1: AFM reference change. Section 1.IV.2: Airworthiness Limitations update. Section 1.V: Addition of Notes 5 and 6.	03/05/2010
02	04/05/2010	Section 1.III.13 (former 1.6) Correction of MTOW value to 17.916 Kgs	03/05/2010
01	03/05/2010	First Issue	Initial Issue 03/05/2010

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