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TYPE-CERTIFICATE DATA SHEET

No. EASA.A.155

for Dassault Falcon 7X

Type Certificate Holder:

DASSAULT AVIATION

9 Rond Point Marcel Dassault 75008 PARIS France

Airworthiness Category: Large Aeroplanes

For Model: Falcon 7X

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I. General

Type: Falcon 7X
 Model: Falcon 7X

2. Performance Class:

3. Certifying Authority: European Aviation Safety Agency

Post office box 10 12 53

D-50452 Cologne

Germany

4. Manufacturer: Dassault Aviation

9 Rond Point Marcel Dassault

75008 PARIS

France

5. EASA Certification Application Date: 26 May 2002

6. EASA Type Certification Date: 27 April 2007

II. Certification Basis

1. Reference Date for determining the

applicable airworthiness requirements

Same as EASA certification application date

2. Reference Date for determining the

applicable operational suitability requirements 17 February 2015

3. EASA Airworthiness Requirements

3.A Airworthiness requirements for S/N 001 to S/N 400 (modification M1000 not included)

JAR 1 at change 5 plus orange papers 1/97/1 and 1/99/1

JAR 25 at change 15, effective 01 August 2000 with the following additions:

a) JAR 25 paragraphs at amendment 16

JAR 25.331(c)(2) Symmetric manoeuvering conditions

JAR 25.335(b)(2) Design airspeeds

JAR 25.337(d) Limit manoeuvering load factors JAR 25.391 Control surface loads: general

JAR 25.395(b) Control system

JAR 25.415 Ground gust conditions

JAR 25.491 Taxi, takeoff and landing roll

JAR 25.493(c) Braked roll conditions

JAR 25.605(a) Fabrication methods

JAR 25.731(d)(e) Wheels JAR 25.735 Brakes

JAR 25.904 Automatic takeoff thrust control system (ATTCS)

JAR 25.933 Reversing systems

JAR 25.939(d) Turbine engine operating characteristics

JAR 25.951(d) Fuel system - General

JAR 25.952 Fuel system analysis and test
JAR 25.954 Fuel system lightning protection
JAR 25.961(a) Fuel system hot weather operation

JAR 25.967 Fuel tank installations
JAR 25.975(a)(5) Fuel tank vents

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JAR 25.981 Fuel tank temperature JAR 25.993 (c) Fuel system lines and fittings JAR 25.994 Fuel system components JAR 25.997 Fuel strainer or filter Oil tanks JAR 25.1013 JAR 25.1015 Oil tank tests Oil strainer or filter JAR 25.1019 JAR 25.1145(c) Ignition switches Function and installation JAR 25.1301(d)

JAR 25.1305(a)(3),(a)(9),(c)(5),(c)(6),(c)(7),(c)(8),(d)(2 Powerplant instruments

JAR 25.1309 Equipment, systems and installations
JAR 25.1310 Power source capacity and distribution

JAR 25.1323 Airspeed indicating system

JAR 25.1351 (b)(6) Electrical systems and equipment - General

JAR 25.1435 Hydraulic systems

Appendix H §H25.3 Instruction for Continued Airworthiness

b) CS 25 paragraphs at amendment 12 for aircraft fitted with emergency exit pictograms (modification M-OPT0760)

CS 25.811(g) Emergency Exit Marking
CS 25.812(b)(1) Emergency Lighting
and related AMC

JAR AWO at change 2, effective 01 August 1996,

3.B Airworthiness requirements for S/N 401 and ongoing (modification M1000 included) NOTE 3

Certification Specification 25, Amendment 11, dated 04 July 2011, except the following paragraphs for which an earlier amendment is accepted:

a) JAR 25 paragraphs at change 15

25.21(b) (as amended by SC B-01), 25.33, 25.103 (as amended by SC B-01, B-08), 25.171 (as amended by B-03), 25.173 (as amended by B-03), 25.175 (as amended by B-03), 25.177 (as amended by B-03), 25.201 (as amended by SC B-01, B-08), 25.203 (as amended by SC B-01, B-08), 25.207(c)(d)(e) (as amended by SC B-01), 25.251(a)(b) (as amended by ESF C-09), 25.305(e)(f) (as amended by ESF C-09), 25.335(b)(1) (as amended by SC C-03), 25.349(a) (as amended by SC C-01), 25.351(a)(1) (as amended by SC C-01), 25.397(c) (as amended by SC C-02), 25.399, 25.405, 25.427(d) via SC C-09, 25.497, 25.562 (as amended by SC D-26 for seats with inflatable restraints), 25.629(a)(b)(1)(2)(c)(d)(e) (as amended by SC C-09), 25.671 (as amended by SC D-05, D-02), 25.679, 25.681, 25.685, 25.689, 25.693, 25.699 (as amended by ESF D-19), 25X745 (as amended by SC D-07), 25.771, 25.772, 25.773, 25.777 (as amended by SC B-02), 25.779, 25.781, 25.783 (as amended by SC D-22), 25.785 (as amended by Dev. D-18), 25.787, 25.789, 25.791, 25.793, 25.807 (as amended by SC D-22), 25.809 (as amended by SC D-22), 25.810 (as amended by SC D-22), 25.811 (as amended by ESF D-12, D-13), 25.813 (as amended by Dev. D-14), 25.815, 25.817, 25.819, 25.820 (as amended by SC D-22), 25.831(a) (as amended by SC D-09 and ESF D-15), 25.833, 25.851, 25.853 (as amended by SC D-11), 25.854, 25.855 (as amended by SC D-11), 25.857, 25.858, 25.859, 25.865, 25.867, 25.869, 25.871, 25.875, 25X899, 25.901, 25.905, 25.925, 25.929, 25.933(a) (as amended by SC E-04), 25.934, 25.937, 25.941, 25.943, 25.945, 25.953, 25.977, 25.979, 25.991, 25.1017, 25.1021, 25.1023, 25.1025, 25.1027, 25.1043, 25.1045, 25.1093 (as amended by ESF E-08), 25.1103, 25.1121, 25.1123, 25.1141, 25.1149, 25.1153, 25.1155, 25.1161, 25.1163, 25.1165, 25.1167, 25.1181, 25.1182, 25.1183, 25.1185, 25.1187, 25.1189, 25.1191, 25.1195 (as amended by ESF E-02), 25.1197, 25.1199, 25.1201, 25.1203, 25.1303, 25.1307, 25.1321, 25.1322 (as amended by ESF F-41), 25.1325, 25.1326, 25.1327, 25X1328, 25.1329 (as amended by ESF F-37), 25.1331, 25.1333, 25.1335 (as amended by ESF F-37), 25.1355, 25.1357 (as amended by ESF F-22), 25X1360, 25X1362, 25.1363, 25.1381, 25.1383, 25.1411, 25.1415, 25.1421, 25.1423, 25.1433, 25.1439, 25.1443, 25.1447, 25.1449, 25.1450, 25.1453, 25.1455, 25.1457, 25.1459 (as amended by ESF F-35), 25.1461, 25X1499, 25X1516, 25.1522, 25.1523, 25.1531, 25.1545, 25.1547, 25.1549 (as amended by ESF E-10), 15.1551, 25.1553, 25.1557, 25.1561,

Subpart J 25A901 to 25A1583, Appendix A, Appendix D, Appendix F, Appendix I, Appendix J

b) JAR 25 paragraphs at amendment 16

25.904, 25.907, 25.933(b), 25.981 (as amended by SC E-01), 25.1013, 25.1015, 25.1019, 25.1145, 25.1305, 25.1309, 25.1310, 25.1323 (as amended by SC B-01)

c) CS 25 paragraphs at amendment 2

25.105(a), 25.111(c), 25.121(b)(c)

d) CS 25 paragraphs at amendment 4

25.611, 25.1301, 25.1353, 25.1529, Appendix H

e) Amended CS 25 amendment 11 paragraphs

25.143 (supplemented by SC B-02, B-04, B-05), 25.145(a)(b) (as amended by SC B-01), 25.207 (as amended by SC B-08). 25.331 (as amended by SC C-01), 25.831 (as amended by SC D-09), 25.841 (as amended by SC D-09), 25.903(c) (as amended by SC E-05), 25.963 (as amended by SC C-06), 25.1431 (as amended by SC F-06)

f) CS 25 paragraphs that are not applicable

25.795, 25.1302, 25.1365, 25.1535, Subpart H 25.1701 to 25.1731, Appendix M, Appendix N

All Weather Operations: JAR AWO change 2 (as amended by ESF K-01, K-02)

3.1. Special Conditions

B-01	Stalling and scheduled operating speeds

- B-02 Motion and effects of cockpit controls
- B-03 Static directional, lateral and longitudinal stability and low energy awareness
- B-04 Flight envelope protection
- B-05 Normal load factor limiting system
- C-01 Design maneuver requirements
- C-02 Limit forces and torque
- C-03 Design dive speed Vd
- C-05 Interaction of systems and structure (superseded by CS 25 amdt 11 in case of modification M1000 installation)
- C-06 Fuel tank crashworthiness
- D-02 Electronic flight control unusual features
- D-05 Flight controls Harmonised 25.671
- D-07 Nose wheel steering Towbarless towing
- D-09 Airworthiness standards for subsonic aeroplanes to be operated above 41 000 ft
- D-11 Fire protection of thermal and acoustic insulation material
- D-22 Fuselage doors
- E-01 Fuel tank safety
- E-04 Reversing system requirements
- E-05 Sustained engine imbalance
- F-06 Protection from effects from HIRF
- F-24 Human factors aspects of flight deck design

Special Conditions related to certain installed modifications

Steep approach capability modicication M0194

B(SAL)-06 Steep Approach and Landing

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Shower installation modification M-OPT0459

D-25 Shower/bathroom Installation

Inflatable Restraint modification M-OPT0686

D-26 Seats with Inflatable Restraints

Head-up Guidance System modification M-OPT0002

F-36 Head-up Guidance System

Crew Rest Area modification M-OPT0359

F-44 Installation of Crew rest area

EFVS System modification M-OPT0017

F-47 Enhanced Flight Vision System (EFVS) with Ops credit

Avionics EASy II modification M1122

F-51 Data Link Services for the Single European Sky

F-52 Flight Recorders including Data Link Recording

Avionics EASy III modification M1254

F-65 Data Link Services

Fuselage stretch modification M1000 (for S/N 401 and ongoing) NOTE 3

B-08 Stalling and scheduled operating speeds in Icing Conditions and Flight in Icing Conditions during Take-off

C-06 Fuel tank crashworthiness (updated with new issue)

Inconsistencies clarification for the modification M1000 certification basis

Subpart B certification basis induces the following inconsistencies:

- CRI B-01 refers to paragraph 25.143(g) and 25.207(f) which respectively become 25.143(h) and 25.207(g) at applicable amendment 11
- CRI B-02 refers to paragraph 25.143(c) which becomes 25.143(d) at applicable amendment 11.
- CRI B-02 introduced new paragraph 25.143(j) titled "Pilot Strength" while 25.143(j) has been introduced in CS 25 Amdt 3 with a different purpose dealing with "Flight in icing conditions before activation of the ice protection system"
- CRI B-03 refers to paragraph 25.143(g) which becomes 25.143(h) at applicable amendment 11
- CRI B-04 introduced new paragraph 25.143(h) titled "Flight envelope protection" while 25.143(h) has been introduced in CS 25 Amdt 3 with a different purpose dealing with "Manoeuvring capabilities",
- CRI B-05 introduced new paragraph 25.143(i) titled "Normal load factor limiting system" while 25.143(i) has been introduced in CS 25 Amdt 3 with a different purpose dealing with "Compliance in icing conditions".
- At Amdt 3, § 25.21(g)(1) requires that all Subpart B paragraphs be demonstrated in icing condition with ice accretion using Appendix C. There is no reversion for 25.21(g)(1), but a for §25.105(a), 25.111(c), 25.121(b)(c) for which CRI B-08 criteria are used for ice accretion.

3.2. Reserved

3.3. Deviations

- D-14 Door between passenger compartments
- D-18 Personal injury criteria of dynamic testing of side facing sofa

Deviations related to certain installed modifications

Fuselage stretch modification M1000

D-31 Width of Aisle

3.4. Equivalent Safety Findings

- C-09 JAR 25.251, 25.305 and 25.629 Vibration, buffet and aeroelastic stability requirements
- C-12 JAR 25.361 Engine failure loads (superseded by CS 25 amdt 11 in case of modification M1000 installation)
- C-15 JAR 25.341, 25.343(b), 25.345(c), 25.371, 25.373(a), 25.391, 25.1517 Gust and continuous turbulence (superseded by CS 25 amdt 11 in case of modification M1000 installation)
- C-16 JAR 25.963(g) Fuel tank access cover (superseded by CS 25 amdt 11 in case of modification M1000 installation)
- D-12 JAR 25.811(d)(1) and (d)(2) Emergency exit locator sign used also as marking sign cabin without divider
- D-13 JAR 25.811(d)(1) and (d)(3) Emergency exit locator sign used also as marking sign cabin with divider
- D-15 JAR 25.831(a) Packs-off take off
- D-19 JAR 25.699(b) Lift and drag device indicator
- E-02 JAR 25.865, 25.1181, 25.1195, 25.1203 Engine fire protection in designated fire zones
- E-08 JAR 25.1093(b) Falling and blowing snow
- E-10 JAR 25.1549 Powerplant instruments colour markings
- E-12 JAR 25.971 Fuel tank sump (superseded by design change in case of modification M1000 installation)
- F-22 JAR 25.1357(e), 25.1309 Honeywell PRIMUS EPIC Integrated Modular Avionics system (compliance with requirements for individual circuit protection)
- F-35 JAR 1459 (a)(2) Use of IRS for DFDR vertical acceleration
- F-37 JAR 25.1329, JAR 25.1335 Revisions to JAR 25.1329 and 25.1335 resulting from Flight Guidance Systems Harmonisation
- F-41 JAR 25.1322 CAS window red message line space
- G-01 JAR 25X1591 Operation on contaminated runways (superseded by CS 25 amdt 11 in case of modification M1000 installation)
- K-01 Revisions to JAR AWO resulting from JAR/FAR 25.1329 Harmonisation
- K-02 Revisions to JAR AWO paragraphs resulting from JAA/FAA Harmonisation

Equivalent Safety Finding for aircraft equipped with modification M-OPT0649

D-27 Table Obstruction to Type III Emergency Exits

3.5. Environmental Protection Requirements

Noise level:

- Chapter 1 of ICAO Annex 16 Volume 1 Chapter 4 Amdt 8. (S/N 001 to 400, modification M1000 not included)
- Chapter 1 of ICAO, Annex 16, Volume 1, amendment 9, Chapter 4 and CS 36, amendment 2 (S/N 401 and ongoing, modification M1000 included) NOTE 3

Fuel venting and exhaust emissions:

- Chapter 2 of ICAO Annex 16 Volume 2 Part II and Part III Chapter 2, Amdt 4 applicable on November 4, 1999. (S/N 001 to 400, modification M1000 not included)
- Chapter 2 of ICAO Annex 16 Volume II, amendment 6, Part II to the Chicago Convention for the
 prevention of intentional fuel venting and as implemented in Decision No. 2003/3/RM of the
 Executive Director of the Agency dated 17 October 2003, on certification specifications providing for
 acceptable means of compliance for aircraft engine emissions and fuel venting « CS-34, initial issue »
 (S/N 401 and ongoing, modification M1000 included) NOTE 3

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4. Operational Suitability Requirements

4.1 Master Minimum Equipment List (MMEL)

JAR-MMEL/MEL Subpart A (General) and Subpart B (MMEL) at Amdt 1

4.2 Flight Crew Data (FCD)

CS-FCD, Initial Issue dated 31 January 2014

4.3 Cabin Crew Data (CCD)

This OSD is not applicable since the maximum passenger configuration is below 20.

4.4 Simulator Data (SIMD)

CS-SIMD, Initial Issue dated 2 December 2014 (applicable to S/N 401 and ongoing / modification M1000 included only) NOTE 3

4.5 Maintenance Certifying Staff Data (MCSD)

Special Condition A-MCSD-01 "Certification Requirements for the OSD element Maintenance Certifying Staff (MCS) of the aircraft model Dassault Falcon 7X fitted with M1000 design change".

III. Technical Characteristics and Operational Limitations

1. Type Design Definition: The Type Design aircraft configuration is the F7TC version stored

in an electronic format under the virtual product management tool ENOVIA/VPM©. The repository of the ENOVIA/VPM©

database is located in Dassault Aviation facilities.

2. Description: The Falcon 7X is a maximum 22 occupants including a minimum

crew of two, tri-jet, long range, large aeroplane category. It has a low positioned, high swept wing, mid-height horizontal stabilizer

and tricycle landing gear. Flight controls are fly-by-wire. Three Pratt & Whitney Canada PW307A (PW307D in case of modification M1000 installed) engines are rear mounted, two

on side of fuselage and one in center position.

3. Equipment: The F7TC version referenced under III.1. contains also the type

design list of equipment.

4. Dimensions

	Without modification M1000 included (S/N 001 to 400)	With modification M1000 included (S/N 401 and ongoing) NOTE 3
Length	23.38 m	24,46 m
Span	26.21 m	26,28 m
Height	7.93 m	7.93 m
Gross wing area	70.7 m²	70.7 m²

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5. Engines

		Three Pratt & Whiney Canada Corp. Turbofan Engines		
		refer to EASA Data Sheet IM.E.035		
		Model PW307A	Model PW307D NOTE 3 (with modification M1000 installed)	
Engine Limits	Takeoff	28.49 kN	29,91 kN	
Static thrust, standard day,	(5 min., Normal All Engines Operating)	(6405 lbs)	(6725 lbs)	
sea level	Maximum continuous	28.49 kN	29,91 kN	
		(6405 lbs)	(6725 lbs)	
Engine Limits	N1 (Fan)	101% r.p.m.	101% r.p.m.	
Maximum permissible	steady state	(100% = 11000 r.p.m)	(100% = 11000 r.p.m)	
engine rotor	Take-off / Maximum continuous			
operating speeds	N2 (Gas Gen.)	100% r.p.m.	100% r.p.m.	
	steady state Take-off / Maximum continuous	(100% = 28500 r.p.m)	(100% = 28500 r.p.m)	
Engine Limits	Takeoff	920°C (1688°F)	920°C (1688°F)	
Maximum	(5 minutes max)	0=0 0 (=000 1,		
permissible interturbine gas	Max. continuous	920°C (1688°F)	920°C (1688°F)	
temperatures	Starting	950°C (1742°F)	950°C (1742°F)	
	Transient (20 sec.) and starting	930°C (1706°F)	945°C (1733°F)	

Note: Engine is approved for operation with thrust reverser p/n F7XC782140020

6. Auxiliary Power Unit (APU): APU model 36-150 [FN], from Honeywell (Allied Signal), APU is non

essential.

APU limitations: according to applicable EASA approved Aircraft Flight

Manuals (AFM); AFMs are referenced in Chapter IV.1.

Maximum operating altitude usable for ground operation only

Maximum Starting Altitude usable for ground operation only

7. Reserved

8. Fluids (Fuel, Oil, Additives, Hydraulics): The fluids are defined in the applicable EASA approved Aircraft Flight Manuals (AFM); AFMs are referenced in Chapter IV.1.

9. Fluid capacities

9.1 Fuel Capacity (Density: 0.803 kg/dm³ (6.7 lbs/US gallon))

	Without modification M1000 included (S/N 001 to 400)		With modification M1000 included (S/N 401 and ongoing) NOTE 3		
Usable Fuel	Volume [dm³ (gals (US)]	Mass [kg (lbs)]	Volume [dm³ (gals (US)]	Mass [kg (lbs)]	
LH circuit	5944 (1570)	4773 (10522)	6359 (1680)	5106 (11257)	
RH circuit	5944 (1570)	4773 (10522)	6383 (1686)	5126 (11301)	
Center circuit	6154 (1626)	4942 (10896)	7108 (1878)	5708 (12583)	
Total (all tanks)	18042 (4766)	14488 (31940)	19850 (5244)	15940 (35141)	
Unusable Fuel					
Drainable	65 (17)	52 (115)	68 (18)	54 (120)	
Undrainable	41 (11)	33 (72)	48 (13)	39 (85)	
Total unusable (all tanks)	106 (28)	85 (187)	116 (31)	93 (205)	

See NOTE 1

9.2 Oil (Density: 0.95 kg/dm³ (7.94 lbs/gal) or (1.99 lbs/qt))

	Volume per engine [dm³ (gals (US)]	Mass [kg (lbs)]
Max Oil Level (Total)	23.61 (6.24)	23.01 (50.7)
Min Oil Level (Total)	18.69 (4.92)	18.21 (40.14)

See NOTE 1

9.3 Hydraulics (Density: 0.84 kg/dm³ (7.0 lbs/US gallon))

	Volume [dm³ (gals (US))	Mass [kg (lbs)]
Hydraulic Fluid - System (Total)	65,19 (17,22)	54,95 (121,15)

See NOTE 1

10. Airspeed Limits: The airspeed limits are defined in the applicable EASA approved Aircraft

Flight Manuals (AFM); the AFMs are referenced in Chapter IV.1.

11. Flight Envelope: The flight envelope is defined in the applicable EASA approved Aircraft

Flight Manuals (AFM); the AFMs are referenced in Chapter IV.1.

Maximum Operating Altitude 15544 m (51000 ft)

12. Operating Limitations

12.1 Approved Operations

The Falcon 7X is eligible for the following kinds of operation when the appropriate equipment and instruments required by the operating requirements are installed, approved, and operating as defined by the MMEL or MEL:

- VFR (Visual)
- IFR (Instrument)

- Day
- Night
- Icing
- Manual or Automatic Category I approaches and non precision approaches
- Manual or Automatic Category I approaches and non precision approaches with EVS operational credit (for S/N 001 to 400 only)

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- Automatic Cat. II approaches with or without HUD monitoring / EVS M-OPT-0002, Category II requirements provided the airplane is operated in accordance with Airplane Flight Manual Annex 1 and with Supplement 1 revision 1 (or later approved revision) when monitored with HUD (for S/N 001 to 400 only)
- Automatic Cat. II approaches without HUD monitoring / EVS, Category II requirements provided the airplane is operated in accordance with Airplane Flight Manual Annex 1 initial revision (or later approved revision) (for S/N 401 and ongoing))
- LPV approaches
- LPV approaches with EVS Operational Credit (for S/N 001 to 400 only)
- **Enhanced Surveillance**
- RVSM
- RNP RNAV operations, down to RNP 0.3 RNAV (RTCA/DO-236B and DO-283)
- Extended flight over water and uninhabited terrain
- Polar operations (limited 85° North / 85° South)
- Contaminated runways operation (for S/N 001 to 400 only)
- Steep approach landing from 4.5 to 6.0 degrees (for S/N 001 to 400 only)
- Landing and take off between 8000 ft and 15000 ft.
- Operations with landing gear down (for S/N 001 to 400 only)
- ADS-B Out function certified in the frame of EASY II M1122 and subsequent EASy versions compliant with EU 1028-2014 and CS-ACNS

12.2 Other Limitations

Other limitations as defined in the applicable EASA approved Aircraft Flight Manuals (AFM); the AFMs are referenced in Chapter IV.1.

13. Maximum Certified Masses

	Without modification M1000 included (S/N 001 to 400)		With modification M1000 included (S/N 401 and ongoing) NOTE 3			
	Mass	Fwd limit % MAC	Aft limit % MAC	Mass	Fwd limit % MAC	Aft limit % MAC
Ramp	31842 kg (70200 lbs)	19.5	31.5	33203 kg (73200 lbs)	19.62	27.00
Takeoff	31751 kg (70000 lbs)	19.05	33.65	33112 kg (73000 lbs)	19.54	27.73
Aft CG at 38.5%	25890 kg (57076 lbs)	19.5	38.5	25890 kg (57076 lbs)	19.5	38.5
Landing	28304 kg (62400 lbs)	19.5	37.35	28304 kg (62400 lbs)	19.5	37.35
Zero fuel	18597 kg (41000 lbs)	19.5	38.5	18597 kg (41000 lbs)	19.5	38.5
Minimum flight - FWD	15694 kg (34600 lbs)	26.0	N/A	15694 kg (34600 lbs)	26.6	N/A
Minimum flight - AFT	14696 kg (32400 lbs)	N/A	38.5	14696 kg (32400 lbs)	N/A	38.5

See Note 1 for weight and balance calculation, refer to the Loading Manual in Chapter IV.3.

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14. Centre of Gravity Range: The Centre of Gravity Ranges are defined in the applicable EASA

approved Aircraft Flight Manuals (AFM); the AFMs are referenced in

Chapter IV.1.

15. Datum: 25 % of mean aerodynamic chord (MAC): 12.183 m (479.65 in) from

the forward end of the aircraft nose cone (12.7418 m (501.646 in) in

case of modification M1000 installed)

16. Mean Aerodynamic Chord (MAC):

3.34754 m (131.79 in.)

Without modification M1000 included (S/N 001 to 400)	With modification M1000 included (S/N 401 and ongoing) NOTE 3
0 % MAC is at 11.3461m (446.7 in.) from the forward end of the aircraft nose cone. 25 % MAC is at 12.183m (479.65in) from the forward end of the aircraft nose cone.	0 % MAC is at 11.9049m (468.69 in.) from the forward end of the aircraft nose cone. 25 % MAC is at 12.7418m (501.646in) from the forward end of the aircraft nose cone.

17. Levelling Means: Aircraft is evelled in the longitudinal and lateral axis by means of

a plumb bob and target in the left main landing gear bay

18. Minimum Flight Crew: For all flights: 2 (pilot and co-pilot)

19. Minimum Cabin Crew: None

20 Maximum Seating Capacity: Up to 22: 2 pilots +1 crew (third crew member seat authorized for

take-off and landing in the cockpit or crew rest area) + up to 19

passenger seats see Note 2

21. Baggage / Cargo Compartment: Maximum allowable loads Baggage compartment: not to exceed 300

kg per square meter.

See note 1.

22. Wheels and Tyres: This aircraft is equipped with wheels, brakes, nose wheel single

chine radial tubeless tires and main wheels H type radial

tubeless tires.

Main wheel tyres are H32×10.5R16.5 Nose wheel tyres are 16×6.0R6 Mixability is not approved.

23. Reserved

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IV Operating and Service Instructions

1. Airplane Flight Manual (AFM)

DGT105608, Airplane Flight Manual (AFM) Model Falcon 7X applicable to S/N 001 to S/N 400 (modification M1000 not included) DGT147681, Airplane Flight Manual (AFM) Model Falcon 7X applicable to S/N 401 and ongoing (modification M1000 included) NOTE 3

2. Instructions for Continued Airworthiness and Airworthiness Limitations that consist of:

Maintenance Review Board Report DGT 102566
 Chapter 5-40 DGT 107838

Airplane Maintenance Manual included in FIELD publication
 Structural Repair Manual included in FIELD publication

3. Loading Manual (for Weight and Balance calculation)

DGT108840, Loading Manual for Model Falcon 7X applicable to S/N 001 to S/N 400 (modification M1000 not included)
DGT147688, Loading Manual for Model Falcon 7X applicable to S/N 401 and ongoing (modification M1000 included) NOTE 3

V Operational Suitability Data (OSD)

The Operational Suitability Data elements listed below are approved by the European Aviation Safety Agency under the EASA Type Certificate EASA.A.155 as per Commission Regulation (EU) 748/2012 as amended by Commission Regulation (EU) No 69/2014.

1. Master Minimum Equipment List (MMEL)

The MMEL grandfathered as per the defined OSD certification basis in chapter II.4.1, is the Falcon 7X DGT106042 at revision 9 dated 8 October 2013 or later approved revisions.

2. Flight Crew Data

The Flight Crew Data approved as per the defined OSD certification basis in chapter II.4.2, is the Falcon 7X Operational Suitability Manual – Flight Crew (OSM-FC) DGT148654 dated 4 Sept. 2015 or later approved revisions.

Pilot Type Rating: Falcon 7X (with and without M1000 modification included)^{NOTE 3}

3. Cabin Crew Data

Not applicable

4. Simulator Data

The Simulator Data approved as per the defined OSD certification basis in chapter II.4.4, is the Operational Suitability Manual Simulator (OSM-SIM) Validation Road Map (VDR) DGT152476 original issue or later approved revisions (applicable only to S/N 401 and ongoing with modification M1000 and M1254 included). NOTE 3

5. Maintenance Certifying Staff Data

The Maintenance Certifying Staff Data approved as per the defined OSD certification basis in chapter II.4.5, is the Operational Suitability Manual Maintenance Certifying Staff (OSM-MCS) DGT153370 original issue or later approved revisions.

Part-66 Type Rating endorsement:

"Falcon 7X (PW307)" (with and without M1000 modification included) NOTE 3

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The Type Rating endorsement "Falcon7X (PW307A)" remains valid for the F7X without M1000 modification, and becomes valid as well for the for F7X with M1000 if the license holder performs a difference training course for the M1000 modification NOTE 3

VI. Notes

NOTE 1:

- The airplane must be loaded according to the appropriate approved Loading Manual (for Weight and Balance calculation). The list of equipment included in certificated empty mass must be provided for each airplane at the time of original certification. A current weight and balance report must be carried in the aircraft at all times from the moment the aircraft is originally certified.
 - The certified empty mass and corresponding center of gravity location must include the fluids of chapter III.9
- b) Loading of the aircraft must be accomplished in a manner that always maintains the center of gravity within the specified limits considering crew and passenger movements as well as fuel consumption and transfer.
- NOTE 2: Cabin interior and seating configuration must be approved.
- NOTE 3: The introduction of the fuselage stretch modification M1000, for which the avionics EASyIII modification M1254 is a precondition, has the commercial designation "F8X". This modification is applicable for all F7X models from S/N 401 and ongoing.

VII Abbreviations

APU: Auxiliary Power Unit
AWO: All Weather Operation

CCD: Cabin Crew Data

CRI: Certification Review Item
CS: Certification Specification

EASA: European Aviation Safety Agency

ESF: Equivalent Safety Finding

FCD: Flight Crew Data

ICAO: International Civil Aviation Organization

INT/POL: JAA Interim Policy

JAR: Joint Aviation Requirement

MCSD: Maintenance Certifying Staff Data MMEL: Master Minimum Equipment List

MEL: Minimum Equipment List

NPA: Notice of Proposed Amendment
OSD: Operational Suitability Data

RVSM: Reduced Vertical Separation Minima

SB: Service Bulletin
SC: Special Condition
SIMD: Simulator Data
S/N: Serial Number

TCDS: Type Certificate Data Sheet

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VIII Change Record

Issue	Date	Changes
Issue 1 to 3		No tracking of detailed changes. Changes log implemented only at issue 4.0 according to new EASA procedure.
Issue 4	20 Jan. 2010	Page 5 Section 2.II.6
		- Elect to comply, removal of JAR 25.907 amt16 propeller vibration as not applicable to the Falcon 7X
		Page 7 Section 2.III.4 and 3.III.5
		- Addition of EASA approved AFM reference DGT 105608
		Page 8 Section 2.III.10
		 Maximum Weights – removal of weight table for A/C without M0478 and M0826 as all Falcon 7X fleet has been retrofitted with these modifications and new deliveries are automatically fitted with these modifications. Note that M0826 is only a justification of the maximum ramp and take off weights without design change, therefore M0826 applies to all F7X A/C even if not in the A/C initial RIC. This removal is to ease operator understanding of the F7X TCDS.
		Page 10 Section 2.IV
		- Correction of Chapter 5-40 reference and removal of operating and service instructions publication format.
Issue 5	15 April 2015	 Editorial revision to reflect latest EASA TCDS format II.3 Addition of paragraphs for modification M-OPT0760 II.3.1 Addition of SC for modifications M0194, M-OPT0459, M-OPT0686, M-OPT0002, M-OPT0359, M-opt0017 and M1122 II.3.4 Addition of ESF for modifications M-OPT0649 II.4 OSD MMEL requirement III.12.1 Update of approved operations IV.3 Addition of Loading Manual V Addition of OSD chapter
Issue 6	15 Dec. 2015	 II.2 reference date for OSD added II.4.3 to II.4.5 OSD added III.15 Datum corrected V.2 to V.5 added VII abbreviations regarding OSD added
Issue 7	24 June 2016	- II.3, II.3.1, II.3.3, II.3.4, II.3.5, II.4, III.2, III.4, III.5, III.9.1, III.12, III.13, III.15, III.16, IV.1, IV.3, V, VI NOTE 3 updated to include data for the modification M1000 that is applicable to all F7X models from S/N 401 and ongoing
Issue 8	17 Nov. 2016	 Serial Number references are changed from 4 digits to 3 digits III.12.1 CAT II approaches added for S/N 401 and ongoing III.15 dimensions adapted, III.16 corrected
Issue 9	15 Dec. 2016	- V.5 Part 66 Type Rating added
		71 0 -