

**Civil Aviation Authority
United Kingdom**



TYPE-CERTIFICATE DATA SHEET

UK.TC.A.00161

for

MF50 / MF900 / Falcon 900EX

Type Certificate Holder
Dassault Aviation

9 Rond Point des Champs Elysées
75008 Paris
France

Model(s): MF50
 MF900
 F900EX

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Section 0: General

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Section 0: General

Section 0 General

I. General

This Type-Certificate Data Sheet (TCDS) is the concise definition of the type-certificated product accepted and or approved by the CAA in the UK for the affected types and models.

This TCDS includes:

1. Details of the type design that affect the TCDS that have been approved or accepted by the CAA in the UK since 01 January 2021.
2. Details of the type design that affected the TCDS and were approved or accepted by EASA before 01 January 2021, and were incorporated into EASA TCDS EASA.A.062 at Issue 7 dated 31 March 2020 and are therefore accepted by the UK under Article 15 of Annex 30 of the UK-EU Trade and Cooperation Agreement.

II. Part 26 Compliance Information

For all models, compliance with point 26.300(a) of UK Regulation (EU) 2015/640 Annex 1 (Part 26) has been accepted by UK CAA as a result of the demonstration of compliance to Commission Regulation (EU) 2015/640 Annex 1 (Part-26) as amended and approval by EASA, by complying with points 26.300, 26.301, 26.304 and 26.305.

Section 1: Mystère-Falcon 50 (MF50)

Section 1 Mystère-Falcon 50 (MF50)

I. General

1. Type/ Model/ Variant

- a) Type: MF50/MF900/F900EX
- b) Model: Mystère-Falcon 50 (MF50)

2. Performance Class

A

3. Certifying Authority

European Union Aviation Safety Agency (EASA)
Post office box 10 12 53
D-50452 Cologne
Germany

4. Manufacturer

Dassault Aviation
9 Rond Point des Champs Elysées
75008 Paris
France

5. EASA Type Certification Application Date

14 November 1973

6. UK CAA Type Validation Application Date

Prior to 31 December 2020, application dates for type certification are covered by EASA type certification application dates, as per Section 5 above.

New applications for UK CAA type validation received after 01 January 2021 will be recorded in this section. At the current issue of this UK CAA TCDS, no new applications for type validation have been received since 01 January 2021.

7. EASA Type Certification Date

27 February 1979

8. UK CAA Type Validation Date

Prior to 31 December 2020, dates of type certification are covered by EASA type certification, as per Section 7 above.

UK CAA type validation dates after 01 January 2021 will be recorded in this section. At the current issue of this UK CAA TCDS, no UK CAA type validations have been completed since 01 January 2021.

Section 1: Mystère-Falcon 50 (MF50)

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 2014

3. State of Design Airworthiness Authority Type Certification Data Sheet No.

EASA.A.062

4. State of Design Airworthiness Authority Certification Basis

Refer to EASA TCDS EASA.A.062.

5. UK CAA Airworthiness Requirements

5.A Federal Aviation Regulations Part 25, Amendments 1 through 34, supplemented by the following sections:

- 25.979 (d) and (e) of Amendment 38
- 25.1013 (b) (1) of Amendment 36
- 25.1351 (d) of Amendment 41
- 25.1353 (e) (6) of Amendment 42

6. Special Conditions

Supplementary conditions, Revision 4 of 22 February 1979.

Compliance with FAR Part 25 requirements relative to flight in icing conditions (25.1093 and 25.1419) has been shown.

Compliance with FAR Part 25 requirements relative to ditching (25.801) has been shown.

Compliance with "Arrêté du 16 Novembre 1990" relative to the "operation of subsonic jet aircraft in order to limit their noise effect" has been shown. This "Arrêté" is in force in France at the edition date of type Certificate Data Sheet number 163 issue number 10.

7. Exemptions

D-GENE-02: Door between Passenger Compartments

8. Deviations

None

9. Equivalent Safety Findings

D-GENE-03: Improved Flammability Standards for Thermal / Acoustic Insulation Materials Used in Large Aeroplanes

Section 1: Mystère-Falcon 50 (MF50)

10. Environmental Protection

ICAO Annex 16 Volume I Chapter 3.

See TCDSN UK.TC.A.00161 for details

11. Operational Suitability Requirements

Master Minimum Equipment List (MMEL)

JAR-MMEL/MEL Section 1 Subpart A&B, Amendment 1, effective on August 1, 2005

Flight Crew Data (FCD)

CS-FCD Initial Issue, effective on January 31, 2014

Section 1: Mystère-Falcon 50 (MF50)

III. Technical Characteristics and Operational Limitations**1. Type Design Definition**

The type aircraft is defined in document DTM800, Revision H.

2. Equipment

AMD-BA documents DTM380075/91 and 4510/78.

Document A320 (DTM2092/78).

3. Dimensions

Length	18.516 m
Span	18.858 m
Height	6.975 m
Distance between main landing gears	3.98 m

4. Engines**Model:**

GARRETT TURBINE ENGINE COMPANY TFE 731-3-1C (FAA Type Certificate Data Sheet n° E6WE).

Number: 3.

Engine Limits:

- Maximum takeoff static thrust up to 24° C - Sea level condition (5 minutes): 3.700 lbs (1.646 daN).
- Maximum continuous static thrust at 15° C - Sea level conditions: 3.700 lbs (1.646 daN).

Note:

Refer to Airplane Flight Manual for engine operating instructions (document DTM813).

- Maximum engine operating speed:	
Low pressure rotor (N1)	RPM: 21.000 (Percent 101,5)
Transient (1 minute)	101,5 to 103 %
Transient (5 seconds)	103 to 105 %
- High pressure rotor (N2)	RPM: 29.692 (Percent 100)
Transient (1 minute)	100 to 103 %
Transient (5 seconds)	103 to 105 %
- Maximum Interstage Turbine Temperature (ITT)	
During starting	907°C
Transient (10 seconds)	927°C
Takeoff (5 minutes)	907°C
Transient (10 seconds)	939°C
Maximum continuous	885°C
- Oil pressure limits	
At idle	25 to 46 psig
Takeoff and maximum continuous	38 to 46 psig
For more information, refer to Airplane Flight Manual.	
- Oil temperature limits (at fan gearbox inlet)	
Maximum, from sea level up to 30.000 ft	127°C
Maximum above 30.000 ft	140°C
Maximum transient at any operational altitude (2 minutes)	149°C
Minimum, continuous operation	30°C

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- Fuel pressure
Minimum fuel pressure warning 4,5 psig

5. Auxiliary Power Unit

Model: ALLIEDSIGNAL / HONEYWELL ENGINES COMPANY - GTCP 36 - 100(A)

APU Limits:

Usable for ground operation only

EGT: Normal operation: 680°C - Maximum: 732°C

RPM: Normal operation: 100% - Maximum: 109%

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

- Fuel conforming to specifications:
See AFM DTM813 page 1-10-4
- Fuel additives
See AFM DTM813 page 1-10-6
- Lubricating system conforming to specifications:
See AFM DTM813 page 1-10-7

7. Fluid Capacities

Fuel tank capacity (nominal)

	Liters	Kg (*)	US gallons	lbs(*)
USUABLE FUEL				
- Left wing	2.117	1.700	559.3	3.748
- Center wing	1.553	1.247	410.2	2.749
- Right wing	2.117	1.700	559.3	3.748
- Left fuselage	793	637	209.5	1.404
- Center fuselage	1.390	1.116	367.2	2.461
- Right fuselage	793	637	209.5	1.404
TOTAL USABLE	8.763	7.037	2.315	15.514
UNUSABLE FUEL				
Drainable:				
- Left wing	3	2.4	0.8	5.3
- Center wing	2	1.6	0.5	3.5
- Right wing	3	2.4	0.8	5.3
- Left fuselage	2.5	2	0.7	4.4
- Center fuselage	2	1.6	0.5	3.5
- Right fuselage	2.5	2	0.7	4.4
Trapped: Tanks and lines	37.3	30	9.8	66.2
TOTAL UNUSABLE	52.3	42	13.8	92.6

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	Liters	Kg (*)	US gallons	lbs(*)
TOTAL FUEL				
- Left engine	2927.5	2351	773.3	5 183
- Center engine	2960	2376.7	782.2	5 240
- Right engine	2927.5	2351	773.3	5 183
TOTAL	8 815	7078.7	2328.8	15 606

(*) Fuel density: 0.803 kg/l

- Refer to weight and balance report of each individual airplane for exact capacity
- Refer to **Error! Reference source not found.** for information on the use of fuel additives.

Oil capacity

Engine lubrication system capacity:

LH, center or RH engine	Liters	U.S. GALLONS
Unusable	1.89	0.5
Usable	8.52	2.25

8. **Airspeed Limits**

(Unless otherwise specified, speeds are indicated airspeeds)

VMO	at sea level	350 kt
VMO	straight line variation up to 10.000 ft	370 kt
VMO	from 10,000 ft to 24.000 ft	370 kt
MMO	above 24.000 ft	0.86
VA	maneuvering speed	210 kt
V _{FE}	slats	200 kt
	slats + flaps 20°	190 kt
	slats + flaps 48°	175 kt
V _{LO}	landing gear operation	190 kt
M _{LO}		0.70
V _{LE}	landing gear extended	220 kt
M _{LE}		0.75
	DV window opening speed	180 kt
	windshield wiper operating speed	205 kt
V _{MCA}	minimum control speed in flight	82.5 kt (CAS)
V _{MCG}	minimum control speed on ground	87.5 kt (CAS)

9. **Maximum Operating Altitude**

- Without Modification M17:

The Maximum operating altitude for MYSTÈRE-FALCON 50 aircraft is Flight level 450.

- With Modification M17:

The Maximum operating altitude for MYSTÈRE-FALCON 50 aircraft modified by incorporation of Modification M17 or AMD-BA Service Bulletin F50-0163 is Flight level 490.

Section 1: Mystère-Falcon 50 (MF50)

10. All Weather Capability

Cat .I requirements provided the airplane is operated in accordance with Airplane Flight Manual DTM813.
 Cat .II requirements provided the airplane is operated in accordance with Airplane Flight Manual DTM813 supplement N°1 (Service Bulletin F50-10) or supplement N°8 (M1000) or supplement N°12 (M1496)

11. Maximum Weights

- Airplane without modification M1230 or Service Bulletin SB F50-161
 - Maximum ramp 17.600 kg (38.800 lbs)
 - Maximum takeoff 17.600 kg (38.800 lbs)
 - Maximum landing: 16.200 kg (35.715 lbs)
 - Maximum zero fuel: 11.600 kg (25.570 lbs)
 - Minimum flight 8.600 kg (18.959 lbs)
- Airplane with modification M1230 or Service Bulletin SB F50-161
 - Maximum ramp 18,500 kg (40,780 lbs)
 - Maximum takeoff 18,500 kg (40,780 lbs)
 - Maximum landing 16,200 kg (35,715 lbs)
 - Maximum zero fuel 11,600 kg (25,570 lbs)
 - Minimum flight 8,600 kg (18,959 lbs)
- Airplane with modification M1430 or Service Bulletin SB F50-191
 - Maximum ramp 18,500 kg (40,780 lbs)
 - Maximum takeoff 18,500 kg (40,780 lbs)
 - Maximum landing 16,200 kg (35,715 lbs)
 - Maximum zero fuel 11,600 kg (25,570 lbs)
 - Minimum flight 8,600 kg (18,959 lbs)

12. Centre of Gravity Range

The weight and balance charts are contained in the Airplane Flight Manual.

Gear retraction has a negligible effect on CG range (- 50 mkg, i.e. 0.2 % on CG range at minimum flight weight).

Airplane without modification M1230 or Service Bulletin SB F50-161

Weight		Forward limit	Aft limit
Kg	lbs	% MAC	% MAC
8.600	18.959	14	32
13.700	30.203	14	32
16.200	35.715	19.8	32
17.600	38.800	22.3	32

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Airplane with modification M1230 or Service Bulletin SB F50-161

Weight		Forward limit % MAC	Aft limit % MAC
Kg	lbs		
8,600	18,959	14	32
13,900	30,640	14	32
16,200	35,715	19.2	32
18,260	40,255	22.8	32
18,500	40,780	23.3	29.6

Airplane with modification M1430 or Service Bulletin SB F50-191

Weight		Forward limit % MAC	Aft limit % MAC
Kg	lbs		
8,600	18,959	14	32
14,800	32,624	14	32
16,200	35,715	17.3	32
18,260	40,255	20.6	32
18,500	40,780	20.9	29.6

NOTE: - 14% MAC is 0.312 m forward of datum
 - 17.3% MAC is 0.218 m forward of datum
 - 19.2% MAC is 0.165 m forward of datum
 - 19.8% MAC is 0.148 m forward of datum
 - 20.6% MAC is 0.125 m forward of datum
 - 20.9% MAC is 0.116 m forward of datum
 - 22.3% MAC is 0.077 m forward of datum
 - 22.8% MAC is 0.062 m forward of datum
 - 23.3% MAC is 0.048 m forward of datum
 - 25% MAC is datum
 - 29.6% MAC is 0.130 m aft of datum
 - 32% MAC is 0.199 m aft of datum

13. Datum

Datum is 25 % of mean aerodynamic chord (MAC) which is marked on aircraft and is 9.724 m from the forward end of the aircraft nose cone.

14. Mean Aerodynamic Chord (MAC)

MAC = 2.839 m

Section 1: Mystère-Falcon 50 (MF50)

15. Levelling Means

MAC = 2.839 m

2.5.15 Levelling Means

A bubble type level may be placed on the head of screws provided on structural components in the fuselage rear compartment.

Levelling can be obtained in the lateral and longitudinal directions.

16. Minimum Flight Crew

1. Two pilots.
2. One pilot and one trained crew member when Service Bulletin F50-011 (VMO/MMO warning activated by copilot air data system) is incorporated.

The second crew member duties are specified in the Aircraft Operating Manual, Section 2.99: Qualification of the second crew member.

Operation of the MYSTÈRE-FALCON 50 aircraft with one pilot and one trained crew member is not permitted when AMD-BA modification M1000 (Installation of EFIS) is incorporated.

17. Maximum Seating Capacity

19 seats in the passenger cabin, in compliance with the requirements of FAR 25.807 (c) applicable to emergency exits (AMD-BA document DTM 800 defines an approved cabin interior accommodation for 8 or 9 passengers).

The MYSTÈRE-FALCON 50 aircraft modified by incorporation of Modification M1230 in production or AMD-BA Service Bulletin F50-0161 in service must not carry more than 12 passengers (FAR 25.831 Ventilation) any time the flight is made at an altitude above 45,000 ft.

18. Exits

	Type	Size
1 Passenger door	I	
2 Emergency exit	III	508 X 914

19. Baggage/ Cargo Compartment

1.000 kg and 600 kg per square meter.

20. Wheels and Tyres

This aircraft is equipped with wheels, brakes and tubeless and radial tires.

Main wheel tyres are 26*6 -14"

Nose wheel tyres are 14.5*5.5 - 6".

21. Environmental Flight Envelope

Refer to approved Airplane Flight Manual.

Section 1: Mystère-Falcon 50 (MF50)

22. Other Limitations

Refer to approved Airplane Flight Manual.

23. Hydraulics

Hydraulic fluid approved for use must conform to MIL-H-5606 specifications (NATO codes H515 or H520)

24. Notes

GARRETT GTCP 36-100 (A) Auxiliary Power Unit

The installation of the GARRETT GTCP 36-100 (A) Auxiliary Power Unit in the MYSTÈRE-FALCON 50 aircraft is an approved option. This Auxiliary Power Unit may be installed in aircraft in service per AMD-BA Service Bulletin F50-002.

Section 1: Mystère-Falcon 50 (MF50)

IV. Operating and Service Instructions

The Operating and Service Instructions listed below are approved by the European Union Aviation Safety Agency under EASA Type Certificate EASA.A.062 in accordance with Commission Regulation (EU) 748/2012 as amended.

These instructions and any future revisions are either accepted under Article 13 of Annex 30 of the UK-EU Trade and Cooperation Agreement or subject to approval by Validation under Article 10 of Annex 30 of the UK-EU Trade and Cooperation Agreement, for use by UK operators.

The Type Certificate Holder should be contacted to verify the applicability of any Operational and Service Instructions within the UK.

1. Airplane Flight Manual (AFM)

Airplane Flight Manual: documents DTM813. ^{Note 8}

2. Instructions for Continued Airworthiness and Airworthiness Limitations

Instructions for Continued Airworthiness and Airworthiness Limitations, included in FIELD publication, that consist of :

- Airworthiness Limitation Section (Chapter 5-40, reference: DGT 113872) ^{Note 8}
- Maintenance Planning Document (Chapter 5):
 - Reference: DGT 125296
- Airplane Maintenance Manual
- Fault Isolation Manual
- Illustrated Parts Catalog (part list only)
- Structural Repair Manual (Part 1)
- Wiring Diagram Manual

3. Service Letters and Service Bulletins

Service Bulletins are listed in Service Bulletin index (SB 0)

4. Various statements

The MF50 is compliant to:

- RVSM requirements are met provided airplane complies with Service Bulletin F50-246.
- NAT MNPS: As per AFM, the minimum navigation performance required by NAT MNPS regulations (French "arrêté of November 5th, 1987 and FAR Part 91, Appendix C) are demonstrated provided that there are at least, operating on board, 2 FMS's and:
 - 2 IRS's in NAV mode or
 - 2 GPS or
 - 1 IRS in NAV mode and 1 GPS
- Basic RNAV, RNP10 are operated in accordance with the associated Airplane Flight Manual, Limitations Section, page 1-15-5 and 1-15-6.
- EGPWS (JAR-OPS1) requirements (§665) provided the system is installed and the airplane is operated in accordance with associated AFM supplements.
- TCAS II change 7 (JAR-OPS1) requirements (§668) provided the modification M2737 (TCAS 4000) is applied and the airplane is operated in accordance with Airplane Flight Manual, Supplement 20.

Section 1: Mystère-Falcon 50 (MF50)

V. Operational Suitability Data (OSD)

The Operational Suitability Data elements listed below are approved by the European Union Aviation Safety Agency under the EASA Type Certificate EASA.A.062 as per Commission Regulation (EU) 748/2012 as amended. ^{Note 8}

These OSD elements and any future revisions are either accepted under Article 13 of Annex 30 of the UK-EU Trade and Cooperation Agreement or subject to approval by Validation under Article 10 of Annex 30 of the UK-EU Trade and Cooperation Agreement, for use by UK operators.

1. Master Minimum Equipment List

The MMEL grandfathered as per the defined OSD certification basis in chapter II.11, Operational Suitability Manual: Master Minimum Equipment List, document ref. DTM824, revision 6, dated 02 November 2011, or later accepted or approved revisions. The Type Certificate Holder should be contacted to verify the applicability of any MMEL revision within the UK.

2. Flight Crew Data

The Flight Crew Data approved as per the defined OSD certification basis in chapter II.11, Operational Suitability Manual - Flight Crew, document ref. DGT148650, revision original, dated 04 September 2015, or later accepted or approved revisions. The Type Certificate Holder should be contacted to verify the applicability of any FCD revision within the UK.

The Pilot Type Rating for Mystère Falcon 50 is: Falcon 50/900

3. Cabin Crew Data

Not available

4. Simulator Data

Not available

5. Maintenance Certifying Staff Data

Not available

Section 1: Mystère-Falcon 50 (MF50)

VI. Falcon 50EX version

F50EX designation for Mystère Falcon 50 airplane does not correspond to a new model designation. This is only a commercial designation for Mystère Falcon 50 airplanes on which the six following major modifications are embodied on assembly line:

- M1810: new engines - assembly line configuration - TFE 731-40
- M1939: new engines control EIED
- M1890: new avionics - EFIS
- M1940: bleed air system computer
- M2159: ADC New calibration (Reduce Vertical Separation Minimum)
- M1200: increase of rudder control authority

1. Type Certification Basis

Reference Application Date for EASA Certification: April 19th, 1995
EASA Certification Date (JAA recommendation): November, 1996

Applicable requirements:

1 - Whole aircraft:

FAR part 25 amendments 1 to 34 plus the following paragraphs:

- FAR 25.979 (d) and (e) amendment 38
- FAR 25.1013 (b) (1) amendment 36
- FAR 25.1351 (d) amendment 41
- FAR 25.1353 (e) (6) amendment 42

- Supplemental Technical Conditions revision 4, dated 22 February 1979, amended by Technical Complementary Conditions (update) A-02 revision 3, dated 12 November 1996 and by Technical Complementary Conditions (update) A-03 revision 3, dated 12 November 1996.

- Supplementary Condition for flight operation above 41000 ft.

- Arrêté du 15 juin 1994 for noise certification.

2 - New parts:

Airworthiness Specifications:

2.1. M1939 (Installation of Engine Indicator Electronic Displays derived from the F2000 EIED system):

- JAR 25X899 change 14
- JAR 25.1309 change 14
- JAR 25.1322 change 14

Section 1: Mystère-Falcon 50 (MF50)

2.2. For the new avionics itself (M1890: "new avionics - EFIS"), the following paragraphs of JAR 25 change 14:

JAR 25.773 (d)	JAR 25.1322	JAR 25.1333
JAR 25.777	JAR 25.1323	JAR 25.1335
JAR 25X899	JAR 25.1325	JAR 25.1381
JAR 25.1301	JAR 25.1326	JAR 25.1431
JAR 25.1303	JAR 25.1327	JAR 25X1524
JAR 25.1307	JAR 25X1328	JAR 25.1543
JAR 25.1309	JAR 25.1329	JAR 25.1583
JAR 25.1321	JAR 25.1331	

Plus JAR AWO change 1 plus amdt AWO/91/1.

- Dassault Aviation elect to comply requirements:

JAR 25.997 change 14
JAR 25.1013 change 14
JAR 25.1015 change 14
JAR 25.1019 change 14
NPA AWO-3 (Miscellaneous amendment to JAR AWO cat 2)
NPA AWO-4 (Automatic landing system)

Special Conditions:

- SC E-01 - Reverse - based upon INT/POL/25/7 dated 28 Jul. 92.
- SC S-01 - Lightning protection indirect effects based upon INT/POL/25/4 - Rev 1 dated 01 Oct. 94.
- SC S-03 - H.I.R.F. based upon INT/POL/25/2 dated 10 Feb. 92.
- SC S-04 - Lightning protection direct effects dated 12 Nov. 96.

Exemptions:

None

Equivalent Safety Findings:

None

2. Operational Suitability Data (OSD) Certification Basis

Reference date for the definition of the OSD certification basis : February 17th 2014

OSD Specifications:

MMEL: JAR-MMEL/MEL Section 1 Subpart A&B, Amendment 1, effective on August 1, 2005
FCD: CS-FCD Initial Issue, effective on January 31, 2014

3. Environmental Protection Requirements:

ICAO Annex 16 Volume I Chapter 3.
ICAO Annex 16 Volume I Chapter 4 if modification M2984 is embodied.

See TCDSN UK.TC.A.00161 for details

Section 1: Mystère-Falcon 50 (MF50)

4. Technical Characteristics and Operational Limitations

4.1. Type Design Definition

Falcon 50 EX airplanes have received modifications:

- M1810: new engines - assembly line configuration - TFE 731-40
- M1939: new engines control EIED
- M1890: new avionics - EFIS
- M1940: bleed air system computer
- M2159: ADC New calibration (Reduce Vertical Separation Minimum)
- M1200: increase of rudder control authority

Falcon 50EX Technical Specifications are detailed in document DGT218952 at latest revision.

4.2. Equipment

Document A900 List of equipment and categorization (DGT67435 dated August 26, 1996)

4.3. All Weather Capability

Cat I and Cat II requirements provided the airplane is operated in accordance with Airplane Flight Manual FM813EX Limitations Page 1-160-1 and annex 2 (Autopilot coupled approach to Cat II "commercial operation" performance requirements).

4.4. Engine

Type: ALLIED SIGNAL / HONEYWELL TFE 731-40 (EASA TCDS IM.E.011).

Number: 3

Engine limits

Maximum takeoff static thrust up to 24° C - Sea level condition (5 mn): 1.646 daN (3700 lbs).
Maximum continuous static thrust at 15° C - Sea level conditions: 1.623 daN (3641 lbs).

Note: Refer to Airplane Flight Manual for engine operating instructions

- Maximum engine operating speed:
 - Low pressure rotor (N1) RPM: 21.021 (Percent 100.1)
 - Transient (5 seconds) 21.105 (Percent 100.5)
 - High pressure rotor (N2) RPM: 31.845 (Percent 101)
 - Transient (5 seconds) 31.952 (Percent 102.5)
- Maximum Interstage Turbine Temperature (ITT)
 - During starting 991°C
 - Takeoff (5 minutes) 1 013°C
 - Maximum continuous 991°C
- Oil pressure limits
 - At idle 50 to 80 psig
 - Takeoff and maximum continuous 65 to 80 psig

For more information, refer to Airplane Flight Manual.

Section 1: Mystère-Falcon 50 (MF50)

- Oil temperature limits (at fan gearbox inlet)

Maximum, from sea level up to 30.000 ft	127°C
Maximum above 30.000 ft	140°C
Maximum transient at any operational altitude (2 minutes)	149°C
Minimum, continuous operation	40°C
- Fuel pressure

Minimum fuel pressure warning	4,5 psig (320 mbars)
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4.5. Center of Gravity range

Airplanes without Dassault Aviation Service Bulletin SB F50-161

Weight (kg)	Forward limit % MAC	Aft limit % MAC
8 600	14	32
13 689	14	32
18 008	22.96	32

Airplanes with Dassault Aviation Service Bulletin SB F50-161

Weight (kg)	Forward limit % MAC	Aft limit % MAC
8 600	14	32
13 888	14	32
18 280	22.99	32
18 500	23.3	29.57

4.6. Maximum weight

- Airplanes without Dassault Aviation Service Bulletin SB F50-161

Maximum ramp	:	18 008 kg (39 700 lbs)
Maximum takeoff	:	18 008 kg (39 700 lbs)
Maximum landing	:	16 200 kg (35 715 lbs)
Maximum zero fuel	:	11 600 kg (25 570 lbs)
Minimum flight	:	8 600 kg (18 959 lbs)
- Airplanes with Dassault Aviation Service Bulletin SB F50-161

Maximum ramp	:	18 500 kg (40 785 lbs)
Maximum takeoff	:	18 500 kg (40 785 lbs)
Maximum landing	:	16 200 kg (35 715 lbs)
Maximum zero fuel	:	11 600 kg (25 570 lbs)
Minimum flight	:	8 600 kg (18 959 lbs)

4.7. Oil capacity

Engine lubrication system capacity:

LH, center or RH engine	Liters	U.S. GALLONS
Unusable	1.18	0.31
Usable	3.82	1.01

Section 1: Mystère-Falcon 50 (MF50)

4.8. Notes

- FM immunity

The F50EX is compliant to:

FM immunity for navigation system VOR/ILS against ICAO Annex 10, Vol I, §3.1.4 and §3.3.8 provided modification M2115 is applied.

FM immunity for communication system VHF against ICAO Annex 10, Vol III, §2.3.3 provided modification M2325 is applied.

- Falcon 50 EX Ferry Kit.

Modification M2133 has been developed and approved by DGAC to allow long range ferry flights overseas in order to enable to complete the aircraft delivered at completion center.

The aircraft equipped with the "ferry-kit" may have a French airworthiness certificate for export which can be exchanged for an US airworthiness certificate.

As long as the aircraft is not certified, the aircraft may be flown only with a "laisser-passer exceptionnel".

5. Operating and Service Instructions

Airplane Flight Manual: document FM813EX. ^{Note 8}

Instructions for Continued Airworthiness and Airworthiness Limitations, included in FIELD publication, that consist of :

- Airworthiness Limitation Section (Chapter 5-40, reference: DGT 113872) ^{Note 8}
- Maintenance Planning Document (Chapter 5):
 - o Reference: DGT 125297
- Airplane Maintenance Manual
- Fault Isolation Manual
- Illustrated Parts Catalog (part list only)
- Structural Repair Manual (Part 1)
- Wiring Diagram Manual

Various statements

The F50EX is compliant to:

- Basic RNAV, RNP10 - See Airplane Flight Manual, Limitations Section, page 1-160-2 and 1-160-3
- RVSM requirements are met provided airplane complies with SB F50-246
- NAT MNPS: As per AFM, the minimum navigation performance required by NAT MNPS regulations (French "arrêté of November 5th, 1987 and FAR Part 91, Appendix C) are demonstrated provided that there are at least, operating on board, 2 FMS's and:
 - o 2 IRS's in NAV mode or
 - o 2 GPS or
 - o 1 IRS in NAV mode and 1 GPS
- CVR (JAR-OPS1) requirements (2 hours) provided the modification M2372 is applied.
- EGPWS (JAR-OPS 1 § 665) provided the airplane is operated in accordance with the associated Airplane Flight Manual.
- TCAS II change 7 (JAR OPS 1 § 668) provided the airplane is operated in accordance with the associated Airplane Flight Manual (M2737).

6. Operational Suitability Data

The Operational Suitability Data elements listed below are approved by the European Union Aviation Safety Agency under the EASA Type Certificate EASA.A.062 as per Commission Regulation (EU) 748/2012 as amended. ^{Note 8}

These OSD elements and any future revisions are either accepted under Article 13 of Annex 30 of the UK-EU

Section 1: Mystère-Falcon 50 (MF50)

Trade and Cooperation Agreement or subject to approval by Validation under Article 10 of Annex 30 of the UK-EU Trade and Cooperation Agreement, for use by UK operators.

6.1. Master Minimum Equipment List

The MMEL grandfathered as per the defined OSD certification basis in chapter IV.2, Operational Suitability Manual: Master Minimum Equipment List, document ref DTM824EX, revision 2, dated 25 March 2010, or later accepted or approved revisions. The Type Certificate Holder should be contacted to verify the applicability of any MMEL revision within the UK.

6.2. Flight Crew Data

The Flight Crew Data approved as per the defined OSD certification basis in chapter IV.2, Operational Suitability Manual - Flight Crew, document ref. DGT148650, revision original, dated 04 September 2015, or later accepted or approved revisions. The Type Certificate Holder should be contacted to verify the applicability of any FCD revision within the UK.

The Pilot Type Rating for Mystère Falcon 50 is: **Falcon 50/900**

6.3. SIM Data

Not available.

6.4. Maintenance Certifying Staff Data

Not available.

6.5. Cabin Crew Data

Not available.

Section 2: Mystère-Falcon 900 (MF900)

Section 2 Mystère-Falcon 900 (MF900)

I. General

1. Type/ Model/ Variant

- a) Type: MF50/MF900/F900EX
- b) Model: Mystère-Falcon 900 (MF900)

2. Performance Class

A

3. Certifying Authority

European Union Aviation Safety Agency (EASA)
Post office box 10 12 53
D-50452 Cologne
Germany

4. Manufacturer

Dassault Aviation
9 Rond Point des Champs Elysées
75008 Paris
France

5. EASA Type Certification Application Date

12 February 1982

6. UK CAA Type Validation Application Date

Prior to 31 December 2020, application dates for type certification are covered by EASA type certification application dates, as per Section 6 above.

New applications for UK CAA type validation received after 01 January 2021 will be recorded in this section. At the current issue of this UK CAA TCDS, no new applications for type validation have been received since 01 January 2021.

7. EASA Type Certification Date

13 March 1986

8. UK CAA Type Validation Date

Prior to 31 December 2020, dates of type certification are covered by EASA type certification, as per Section 7 above.

UK CAA type validation dates after 01 January 2021 will be recorded in this section. At the current issue of this UK CAA TCDS, no UK CAA type validations have been completed since 01 January 2021.

Section 2: Mystère-Falcon 900 (MF900)

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 2014

3. State of Design Airworthiness Authority Type Certification Data Sheet No.

EASA.A.062

4. State of Design Airworthiness Authority Certification Basis

Refer to EASA TCDS EASA.A.062.

5. UK CAA Airworthiness Requirements

5.A Federal Aviation Regulations Part 25, Amendments 1 through 56, except for the following sections of Amendments 35 through 56:

• 25.107 Amendt. 42	- Takeoff speeds
• 25.109 Amendt. 42	- Accelerate-stop distance
• 25.111 Amendt. 42 & 54	- Takeoff path
• 25.149 Amendt. 42	- Minimum control speed
• 25.629 Amendt. 46	- Flutter, deformation and fail-safe criteria
• 25.933 Amendt. 40	- Reversing systems
• 25.997 Amendt. 36	- Fuel strainer or filter
• 25.1019 Amendt. 36	- Oil strainer or filter
• 25.1093 Amendt. 36, 38 & 40	- Induction system deicing and anti-icing provisions
• 25.1141 Amendt. 40	- Powerplant controls - General
• 25.1167 Amendt. 38	- Accessory gearboxes
• 25.1305 Amendt. 35, 36, 38 & 54	- Powerplant instruments

Supplementary conditions (DGAC letter 54-147 SFACT/TC of 22 November 1985, supplemented by DGAC letter 53-260 SFACT/TC of 5 March 1986).

"Circulaire" No 3938 DTA/M relative to conditions applicable to airborne equipment and installations required to perform precision approaches to Category II landing minimums, 25 November 1971 issue.

Compliance with "Arrêté du 16 Novembre 1990" relative to the "operation of subsonic jet aircraft in order to limit their noise effect" has been shown.

This "Arrêté" is in force in France at the edition date of type Certificate Data Sheet number 163 issue number 10. (See NOTE 5).

Compliance with FAR Part 25 requirements relative to ditching (25.801) has been shown.

Compliance with FAR Part 25 requirements relative to flight in icing conditions (25.1093 and 25.1419) has been shown.

Section 2: Mystère-Falcon 900 (MF900)

6. Special Conditions

French Special Condition for operation between 41,000 and 51,000 ft (DGAC letter 54-063 SFACT/TC of 28 October 1985).

SC C-01 Carbon horizontal stabilizer (for aeroplanes with M2460 embodied)

7. Exemptions

D-GENE-02: Door between Passenger Compartments

8. Deviations

None

9. Equivalent Safety Findings

Compliance with FAR Part 25 requirements relative to illumination of Type III passenger emergency exit operating handle (25.811 (e) (3)) has been shown on the basis of an equivalent safety.

D-GENE-03: Improved Flammability Standards for Thermal / Acoustic Insulation Materials Used in Large Aeroplanes

10. Environmental Protection

ICAO Annex 16 Volume I Chapter 3.

See TCDSN UK.TC.A.00161 for details

11. Operational Suitability Requirements

Master Minimum Equipment List (MMEL)

JAR-MMEL/MEL Section 1 Subpart A&B, Amendment 1, effective on August 1, 2005

Flight Crew Data (FCD)

CS-FCD Initial Issue, effective on January 31, 2014

Section 2: Mystère-Falcon 900 (MF900)

III. Technical Characteristics and Operational Limitations**1. Type Design Definition**

The type aircraft is defined in document DTM20078 (including F900C Technical Specifications).

Definition of reference airplane by DASSAULT AVIATION documents A001, A002 and A003 "Liste des plans structure, électrique et avionique".

2. Equipment

Document A230 DTM 35-II N524 "Liste des équipements"

3. Dimensions

Length	20.2 m
Span	19.33 m
Height	7.5 m
Distance between main landing gears	4.45 m

4. Engines**Model:**

Mystère Falcon 900 Airplanes with modification M1200 and M1548 (SB F900-100) are equipped with ALLIEDSIGNAL / HONEYWELL ENGINES TFE 731-5BR-1C engines. Commercial name of MYSTÈRE-FALCON 900 airplanes fitted with M1200 and M1548 modifications is F900B.

Number: 3.

	Aircraft without M1200 and M1548	Aircraft with M1200 and M1548
Type: ALLIEDSIGNAL / HONEYWELL ENGINES TFE731-5xxx (TCDS FAA n° E6WE)	TFE 731-5AR-1C	TFE 731-5BR-1C
- Engine limits: . Maximum takeoff static thrust up to 23°C Sea level conditions (5 minutes) . Maximum continuous static thrust at 15° C Sea level conditions	2002 daN (4500 lbs)	2113 daN (4750 lbs) 2002 daN (4500 lbs)
Note: refer to Airplane Flight Manual for engine operating instructions		2061 daN (4634 lbs)
- Maximum engine operating speeds: . Low pressure rotor (N1) . Transient (5 seconds) . High pressure rotor (N2) . Transient (5 seconds)	RPM 21000 (percent 100%) 100% to 103% RPM 29989 (percent 101%) 101% to 103%	RPM 21000 (percent 100%) 100 % to 103 % RPM 30540 (percent 100.8 %) 100.8 % to 103 %

Section 2: Mystère-Falcon 900 (MF900)

	Aircraft without M1200 and M1548	Aircraft with M1200 and M1548
- Maximum Interstage Turbine Temperatures (ITT)		
. During starting	952° C	978° C
Transient (10 seconds)	974° C	996° C
. Takeoff (5 minutes)	974° C	996° C
Transient (5 seconds)	984° C	1006° C
Transient (2 seconds)	994° C	1016° C
. Maximum continuous	924° C	968° C
- Oil pressure limits		
. At idle	25 to 46 psig	
. Takeoff and maximum continuous	38 to 46 psig	
For more information, refer to Airplane Flight Manual.		
- Oil temperature limits (at fan gearbox inlet)		
. Maximum, from sea level up to 30,000 ft	127° C	
. Maximum above 30,000 ft	140° C	
. Maximum transient at any operational altitude (2 minutes)	149°C	
. Minimum, continuous operation	30° C	
- Fuel pressure		
. Minimum fuel pressure warning	4.5 psig	

5. Auxiliary Power Unit

Model: ALLIEDSIGNAL / HONEYWELL ENGINES COMPANY - GTCP 36 - 150(F)

APU limits: usable for ground operation only

	Normal operation	Maximum
EGT:	720°C	973°C
RPM:	102%	110%

Section 2: Mystère-Falcon 900 (MF900)

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

- Fuel conforming to specifications:
See AFM
- Lubricating system conforming to specifications:
See AFM

7. Fluid Capacities

Fuel tank capacity (nominal)

	Liters	Kg (*)	US gallons	lbs (*)
USABLE FUEL				
- LH wing and center section	3.422	2.748	904	6.058
- RH wing and center section	3.422	2.748	904	6.058
- Forward and aft fuselage	3.925	3.152	1.037	6.949
TOTAL USABLE	10.769	8.648	2.845	19.065
UNUSABLE FUEL				
Drainable:				
- LH wing and center section	11.2	9	3	20
- RH wing and center section	8.7	7	2.3	15.4
- Forward and aft fuselage	8.7	7	2.3	15.4
Trapped: Tanks and lines	38.6	31	10.2	68.4
TOTAL UNUSABLE	67.2	54	17.8	119.2
TOTAL FUEL				
- LH engine	3.445	2.767	910	6.100
- RH engine	3.440	2.762	909	6.089
- Center engine	3.951	3.173	1.044	6.995
TOTAL	10.836	8.702	2862.8	19.184

(*) Fuel density: 0.803 kg/l

Refer to weight and balance report of each individual airplane for exact capacity.

Refer to **Error! Reference source not found.** for information on the use of fuel additives.

Section 2: Mystère-Falcon 900 (MF900)

Oil capacity

Engine lubrication system capacity

LH, center or RH engine	Liters	U.S. GALLONS
Unusable	1.42	0.37
Usable	10.82	2.86

8. Airspeed Limits

(unless otherwise specified, speeds are indicated airspeeds).

VMO at sea level	350 kt
VMO straight line variation up to 10,000 ft	370 kt
VMO from 10,000 to 25,000 ft	370 kt

Weight lower than 15,876 kg (35,000 lbs)

MMO from 25,000 to 38,000 ft	0.87
MMO from 38,000 to 42,000 ft, straight line variation down to	0.84
MMO above 42,000 ft	0.84

Weight higher than 15,876 kg (35,000 lbs)

MMO from 25,000 to 33,000 ft	0.87
MMO from 33,000 to 37,000 ft, straight line variation down to	0.84
MMO above 37,000 ft.....	0.84

V_A	maneuvering speed	228 kt
V_{FE}	slats + flaps 7°	200 kt
	slats + flaps 20°	190 kt
	slats + flaps 40°	180 kt
V_{LO}	landing gear operation	190 kt
M_{LO}	.....	0.70
V_{LE}	landing gear extended	245 kt
M_{LE}	.....	0.75
	DV window opening speed	215 kt
	windshield wiper operating speed	215 kt

	without M1200 and M1548	with M1200 and M1548
V_{MCA} Minimum control speed in flight	83 kt (CAS)	85,3 kt (CAS)
V_{MCG} Minimum control speed on ground	83,6 kt (CAS)	86 kt (CAS)

9. Maximum Operating Altitude

Flight level: FL 510

Section 2: Mystère-Falcon 900 (MF900)

10. All Weather Capability

Cat II requirements

11. Maximum Weights

- Airplane without DASSAULT AVIATION modification M1196

- Maximum ramp	.....	20 729 kg (45 700 lbs)
- Maximum take off	.....	20 639 kg (45 500 lbs)
- Maximum landing	.....	19 051 kg (42 000 lbs)
- Maximum zero fuel	.....	12 800 kg (28 220 lbs)
- Minimum flight	.....	9 390 kg (20 700 lbs)
- Airplane with DASSAULT AVIATION modification M1196

- Maximum ramp	.....	21,183 kg (46,700 lbs)
- Maximum takeoff	.....	21,092 kg (46,500 lbs)
- Maximum landing	.....	19051 kg (42000 lbs)
- Maximum zero fuel	.....	14,000 kg (30,865 lbs)
- Maximum flight	.....	9,390 kg (20,700 lbs)

12. Centre of Gravity Range

Airplane without DASSAULT AVIATION modification M1196

Weight		Forward limit	Aft limit
Kg	lbs	% MAC	% MAC
9,390	20,700	14	31
19,051	42,000	14	31
20,639	45,500	14	31

Airplane with DASSAULT AVIATION modification M1196

Weight		Forward limit	Aft limit
Kg	lbs	% MAC	% MAC
9,390	20,700	14	31
19,051	42,000	14	31
21,092	46,500	14	31

14 % MAC is 0.318 m forward of datum

15 % MAC is 0.289 m forward of datum

25 % MAC is datum

31 % MAC is 0.173 m aft of datum

Section 2: Mystère-Falcon 900 (MF900)

The weight and balance charts are contained in the DGAC approved Manuel de Vol.

Gear retraction has a negligible effect on CG range (-46 mkg, i.e. - 0,17 % on CG range at minimum flight weight).

13. **Datum**

Datum is 25 % of mean aerodynamic chord (MAC) which is marked on aircraft and is 10.679 m from the forward end of the aircraft nose cone.

14. **Mean Aerodynamic Chord (MAC)**

MAC = 2.888 m

15. **Levelling Means**

A bubble type level may be placed on the passenger seat tracks.

Levelling can be obtained in the lateral and longitudinal directions.

16. **Minimum Flight Crew**

Two pilots.

17. **Maximum Seating Capacity**

19 seats in the passenger cabin, in compliance with the requirements of FAR 25.807 (c) applicable to emergency exits (AMD-BA document DTM20164 defines an approved cabin interior accommodation for 12 passengers).

18. **Exits**

	Type	Size
1 Passenger door	I	0.800*1.72 m (31.50*67.72 in)
2 Emergency exit	III	0.534*0.916 m (21.02*36.06 in)

19. **Baggage/ Cargo Compartment**

1 300 kg and 600 kg per square meter.

20. **Wheels and Tyres**

This aircraft is equipped with wheels, brakes and tubeless and radial tires.

Main wheel tyres are 29*7.7 -15"

Nose wheel tyres are 17.5*5.75 - 8".

21. **Environmental Flight Envelope**

Refer to approved Airplane Flight Manual.

Section 2: Mystère-Falcon 900 (MF900)

22. Other Limitations

Refer to approved Airplane Flight Manual.

23. Hydraulics

Hydraulic fluid approved for use must conform to MIL-H-5606 specifications (NATO codes H515 or H520)

24. Notes

FM immunity

The MF900 is compliant to:

- FM immunity for navigation system VOR/ILS against ICAO Annex 10, Vol I, §3.1.4 and §3.3.8 provided modification M1865 is applied.
- FM immunity for communication system VHF against ICAO Annex 10, Vol III, §2.3.3 provided modification M2731 is applied.

Section 2: Mystère-Falcon 900 (MF900)

IV. Operating and Service Instructions

The Operating and Service Instructions listed below are approved by the European Union Aviation Safety Agency under EASA Type Certificate EASA.A.062 in accordance with Commission Regulation (EU) 748/2012 as amended.

These instructions and any future revisions are either accepted under Article 13 of Annex 30 of the UK-EU Trade and Cooperation Agreement or subject to approval by Validation under Article 10 of Annex 30 of the UK-EU Trade and Cooperation Agreement, for use by UK operators.

The Type Certificate Holder should be contacted to verify the applicability of any Operational and Service Instructions within the UK.

1. Airplane Flight Manual (AFM)

Airplane Flight Manual: documents DTM20103. ^{Note 8}

2. Instructions for Continued Airworthiness and Airworthiness Limitations

Instructions for Continued Airworthiness and Airworthiness Limitations, included in FIELD publication, that consist of :

- Airworthiness Limitation Section (Chapter 5-40, reference: DGT 113873) ^{Note 8}
- Maintenance Planning Document (Chapter 5):
 - Reference: DGT 125287
- Airplane Maintenance Manual
- Fault Isolation Manual
- Illustrated Parts Catalog (part list only)
- Structural Repair Manual (Part 1)
- Wiring Diagram Manual

3. Service Letters and Service Bulletins

Service Bulletins are listed in Service Bulletin index (SB 0)

4. Various statements

The MF50 is compliant to:

- CVR (JAR-OPS1) requirements (2 hours) provided modification M2819 is applied.
- TCAS II change 7 (JAR OPS 1 § 668) if the airplane is operated in accordance with the associated Airplane Flight Manual. (M3377 and M3501 or Service Bulletin F900-251 / M3219)

Section 2: Mystère-Falcon 900 (MF900)

5. Approved Operations

The Falcon MF900 is eligible for the following kinds of operation when the appropriate equipment and instruments required by the operating requirements are installed (since TC or through dedicated M, M-Opt or equivalent SB), approved, and operating as defined by the AFM.

Nota 1 : Operational approval shall be granted by the appropriate authority before conducting the operation

Approved operations	Configuration requirements
IFR (Instrument)	Basic
Day and night VFR	Basic
Operations in Icing conditions	Basic
Manual or Automatic Category I approaches and non precision approaches	Basic
Automatic Category II approaches	Basic
Enhanced Surveillance	Basic
RVSM	A/C with SB F900-186
Extended flight over water and uninhabited terrain	Basic
Polar operations (limited 85° North / 85° South)	Basic
Contaminated runways operation-	Basic
Steep approach landing up to 5.5/6.0 degrees	Basic
Landing and take off between 10,000 and 14,000ft	Basic (Annex 4)
Operations with landing gear down	Basic
IFR OCEANIC / RNP 10	Basic
NAT-MNPS	See AFM SUP17, 17A, 17B, 17C, 19, 19A, 19B, 19C, 19D
B-RNAV / RNP 5	Basic
P-RNAV (JAA TGL-10)	Basic
AC 90-100A US TERMINAL AND EN ROUTE AREA NAVIGATION (RNAV) OPERATIONS	Basic
Specific close-in Noise Abatement Departure Procedure (NADP), with reduction at a minimum of 400 feet AGL	Basic

Section 2: Mystère-Falcon 900 (MF900)

V. Operational Suitability Data (OSD)

The Operational Suitability Data elements listed below are approved by the European Union Aviation Safety Agency under the EASA Type Certificate EASA.A.062 as per Commission Regulation (EU) 748/2012 as amended. ^{Note 8}

These OSD elements and any future revisions are either accepted under Article 13 of Annex 30 of the UK-EU Trade and Cooperation Agreement or subject to approval by Validation under Article 10 of Annex 30 of the UK-EU Trade and Cooperation Agreement, for use by UK operators.

1. Master Minimum Equipment List

The MMEL grandfathered as per the defined OSD certification basis in chapter II.11, Operational Suitability Manual: Master Minimum Equipment List, document ref. DTM9825, revision 10 dated 22 July 2011, or later accepted or approved revisions. The Type Certificate Holder should be contacted to verify the applicability of any MMEL revision within the UK.

2. Flight Crew Data

The Flight Crew Data approved as per the defined OSD certification basis in chapter II.11, Operational Suitability Manual - Flight Crew, document ref. DGT148650, revision original, dated 04 September 2015, or later accepted or approved revisions. The Type Certificate Holder should be contacted to verify the applicability of any FCD revision within the UK.

The Pilot Type Rating for Mystère Falcon 900 is: **Falcon 50/900**

3. Cabin Crew Data

Not available

4. Simulator Data

Not available

5. Maintenance Certifying Staff Data

Not available

Section 2: Mystère-Falcon 900 (MF900)

VI. Falcon 900C version

F900C designation for Mystère Falcon 900 airplane does not correspond to a new model designation. This is only a commercial designation for Mystère Falcon 900 airplanes on which one of these 2 major modifications is embodied on assembly line:

M1975: Primus 2000 avionics - Installation on product line.

M2695: Primus 2000 avionics - Installation by Service Bulletin.

1. Type Certification Basis

Reference Application Date for EASA Certification: February 20th, 1998

EASA Certification Date (JAA recommendation): June 15th, 1999

Certification basis consists in Falcon 900 certification basis, plus following requirements:

Airworthiness Specifications:

JAR25 change 14 Plus op/96/1 relevant paragraphs applicable to the significant change:

JAR 25 subpart D - Design and construction:

- JAR 25.773 (d) "Pilot Compartment View"
- JAR 25X899 "Electrical bonding and protection"

JAR 25 subpart F - Equipment:

- JAR 25.1301: « Function and Installations »
- JAR 25.1303: « Flight and Navigation Instruments »
- JAR 25.1307 (c)(d)(e): « Miscellaneous equipments »
- JAR 25.1309: « Equipment, systems and installations »
- JAR 25X1315: « Negative acceleration »
- JAR 25.1316: « System lightning protection »
- JAR 25.1321: « Arrangement and visibility »
- JAR 25.1322: « Warning, Caution and advisory lights »
- JAR 25.1323: « Airspeed indicating system »
- JAR 25.1326: « Pitot heat indication systems »
- JAR 25.1327: « Magnetic direction indicator »
- JAR 25X1328: « Direction indicator »
- JAR 25.1329: « Automatic pilot system »
- JAR 25.1331: « Instruments using a power supply »
- JAR 25.1333: « Instrument systems »
- JAR 25.1335: « Flight director systems »
- JAR 25.1381 Instrument Lights
- JAR 25.1431 Electronic Equipment
- JAR 25.1457 "Cockpit voice recorders"
- JAR 25.1459 "Flight recorders"

JAR 25 subpart G - Operating limitations and information:

- JAR 25X1524 Systems and equipment limitations
- JAR 25.1529 Instructions for Continued Airworthiness
- JAR 25.1543 Instrument Markings: General
- JAR 25.1545 Airspeed limitation information

Section 2: Mystère-Falcon 900 (MF900)

- JAR 25.1547 Magnetic Direction Indicator
- JAR 25.1549 Powerplant Instruments

Plus JAR AWO Change 2.

Special conditions:

DGAC special conditions are:

- CRI F-02: «HIRF»
- CRI F-04: «Lightning indirect effects»
- CRI F-08: «E-GPWS option»

Exemptions:

None.

Equivalent Safety Findings:

None.

2. Operational Suitability Data (OSD) Certification Basis

Reference date for the definition of the OSD certification basis : February 17th 2014

OSD Specifications:

MMEL: JAR-MMEL/MEL Section 1 Subpart A&B, Amendment 1, effective on August 1, 2005
FCD: CS-FCD Initial Issue, effective on January 31, 2014

3. Environmental Protection Requirements:

ICAO Annex 16 Volume I Chapter 3.

ICAO Annex 16 Volume I Chapter 4 if modification M2984 is embodied.

See TCDSN UK.TC.A.00161 for details

4. Technical Characteristics and Operational Limitations

4.1. Type Design Definition

Two changes are issued to cover the basic installation:

Modification M1975: Primus 2000 avionics suite installation on MF900, which is the basic installation on the newly produced aeroplanes, with serial number equal or greater than S/N 179.

Modification M2695: Primus 2000 avionics suite installation on MF900 (retrofit), installation of this avionics suite on by a specific Service Bulletin.

4.2. Equipment

See modification sheets listed here above.

Section 2: Mystère-Falcon 900 (MF900)

4.3. All Weather Capability

Cat II

5. Operating and Service InstructionsAirplane Flight Manual: document FM900C. ^{Note 8}

Instructions for Continued Airworthiness and Airworthiness Limitations, included in FIELD publication, that consist of :

- Airworthiness Limitation Section (Chapter 5-40, reference: DGT 113873) ^{Note 8}
- Maintenance Planning Document (Chapter 5):
 - o Reference: DGT 128065
- Airplane Maintenance Manual
- Fault Isolation Manual
- Illustrated Parts Catalog (part list only)
- Structural Repair Manual (Part 1)
- Wiring Diagram Manual

Various statements

The F900C is compliant to:

- CVR (JAR-OPS1) requirements (2 hours) provided the modification M2819 is applied.
- EGPWS (JAR-OPS 1 § 665) provided the modification M2811 is applied and the airplane is operated in accordance with the associated AFM Supplement 7.
- TCAS II change 7 (JAR OPS 1 § 668) (M3219 or S/B F900EX-89 or M3236 or M3382 or M3428 or M3527 or M3540 or M3627) if the airplane is operated in accordance with the associated Airplane Flight Manual.

6. Approved Operations

The Falcon F900C is eligible for the following kinds of operation when the appropriate equipment and instruments required by the operating requirements are installed (since TC or through dedicated M, M-Opt or equivalent SB), approved, and operating as defined by the AFM:

Nota 1 : Operational approval shall be granted by the appropriate authority before conducting the operation

Approved operations	Configuration requirements
IFR (Instrument)	Basic
Day and night VFR	Basic
Operations in Icing conditions	Basic
Manual or Automatic Category I approaches and non precision approaches	Basic
Automatic Category II approaches	Basic
Enhanced Surveillance	Basic
RVSM	A/C with SB F900EX-4
Extended flight over water and uninhabited terrain	Basic
Polar operations (limited 85° North / 85° South)	Basic
Contaminated runways operation-	Basic
Steep approach landing up to 5.5/6.0 degrees	Basic

Section 2: Mystère-Falcon 900 (MF900)

Approved operations	Configuration requirements
Landing and take off between-10,000 and 14,000ft	Basic (Annex 4)
Operations with landing gear down	Basic
IFR OCEANIC / RNP 10	Basic
NAT-MNPS	See AFM SUP05, 05A, 05B
B-RNAV / RNP 5	Basic
P-RNAV (JAA TGL-10)	Basic
AC 90-100A US TERMINAL AND EN ROUTE AREA NAVIGATION (RNAV) OPERATIONS	Basic
Specific close-in Noise Abatement Departure Procedure (NADP), with reduction at a minimum of 400 feet AGL	Basic

7. Operational Suitability Data

The Operational Suitability Data elements listed below are approved by the European Union Aviation Safety Agency under the EASA Type Certificate EASA.A.062 as per Commission Regulation (EU) 748/2012 as amended. ^{Note 8}

These OSD elements and any future revisions are either accepted under Article 13 of Annex 30 of the UK-EU Trade and Cooperation Agreement or subject to approval by Validation under Article 10 of Annex 30 of the UK-EU Trade and Cooperation Agreement, for use by UK operators.

7.1. Master Minimum Equipment List

The MMEL grandfathered as per the defined OSD certification basis in chapter IV.2, Operational Suitability Manual: Master Minimum Equipment List, document ref. DTM9825, revision 10, dated 22 July 2011, or later accepted or approved revisions. The Type Certificate Holder should be contacted to verify the applicability of any MMEL revision within the UK.

7.2. Flight Crew Data

The MMEL grandfathered as per the defined OSD certification basis in chapter IV.2, Operational Suitability Manual - Flight Crew, document ref. DGT148650, revision original, dated 04 September 2015, or later accepted or approved revisions. The Type Certificate Holder should be contacted to verify the applicability of any FCD revision within the UK.

The Pilot Type Rating for Mystère Falcon 50 is: **Falcon 50/900**

7.3. SIM Data

Not available.

7.4. Maintenance Certifying Staff Data

Not available.

7.5. Cabin Crew Data

Not available.

Section 3: Mystère-Falcon 900EX (F900EX)

Section 3 Mystère-Falcon 900EX (F900EX)

I. General

1. Type/ Model/ Variant

- c) Type: MF50/MF900/F900EX
- d) Model: Mystère-Falcon 900EX (F900EX)

2. Performance Class

A

3. Certifying Authority

European Union Aviation Safety Agency (EASA)
Post office box 10 12 53
D-50452 Cologne
Germany

4. Manufacturer

Dassault Aviation
9 Rond Point des Champs Elysées
75008 Paris
France

5. EASA Type Certification Application Date

03 March 1993

6. UK CAA Type Validation Application Date

Prior to 31 December 2020, application dates for type certification are covered by EASA type certification application dates, as per Section 6 above.

New applications for UK CAA type validation received after 01 January 2021 will be recorded in this section. At the current issue of this UK CAA TCDS, no new applications for type validation have been received since 01 January 2021.

7. EASA Type Certification Date

31 May 1996

8. UK CAA Type Validation Date

Prior to 31 December 2020, dates of type certification are covered by EASA type certification, as per Section 7 above.

UK CAA type validation dates after 01 January 2021 will be recorded in this section. At the current issue of this UK CAA TCDS, no UK CAA type validations have been completed since 01 January 2021.

Section 3: Mystère-Falcon 900EX (F900EX)

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 2014

3. State of Design Airworthiness Authority Type Certification Data Sheet No.

EASA.A.062

4. State of Design Airworthiness Authority Certification Basis

Refer to EASA TCDS EASA.A.062.

5. UK CAA Airworthiness Requirements

1. FAR part 25 up to and including amendment 25.56 except for amendments 36 through 56 which have not been selected for the following paragraphs:

25.109	Amdt 42	Accelerate-stop distance
25.149	Amdt 42	Minimum control speed
25.629	Amdt 46	Flutter, deformation, and fail-safe criteria
25.933	Amdt 40	Reversing systems
25.1093	Amdt 36, 38 and 40	Induction system icing protection
25.1141	Amdt 40	Powerplant controls: general

2. Requirements of JAR 25 change 13 plus Orange Paper 90/1 and associated interpretations for M1466 modifications (300 l tank in rear servicing compartment) and M3008 (Upgrading of Falcon 900EX avionics).

JAR 25X899	JAR 25.1309 (OP 90/1)	JAR 25.1333
JAR 25.901 (c) (OP 90/1)	JAR 25X1315	JAR 25.1335
JAR 25. 963 (e) (and referenced JAR 25.561)	JAR 25.1322	
JAR 25.1141 (f)	JAR 25.1323	
JAR 25.1303	JAR 25.1329	
JAR 25.1305	JAR 25.1331	

Plus JAR AWO Change 1 and Amdt AWO/91/1

3. Requirements applied upon Dassault Aviation's request:

JAR 25.107 change 13	Take-off speeds
JAR 25.111 change 13	Take-off path
JAR 25.997 change 13	Fuel strainer or filter
JAR 25.1019 change 13	Oil strainer or filter
JAR 25.1167 OP 90/1	Accessory gearboxes

Section 3: Mystère-Falcon 900EX (F900EX)

NPA AWO - 3	Miscellaneous amendments to JAR AWO cat 2
NPA AWO - 4	Automatic landing system Proposal 2

6. Special Conditions

SC B-1114 Take Off performances on wet runways

SC C-01 Carbon horizontal stabilizer (for aeroplanes with M2460 embodied)

SC S-01 Thrust reverser

SC S-02 Lightning, indirect effect

SC S-04 HIRF

- Complementary technical conditions (DGAC letter 54-147 SFACT/TC dated November 22, 1985, with DGAC letter 53-260 SFACT/TC dated March 5, 1986, and with CRI A03 edition 3).
- Special French Condition for flight between 41,000 and 51,000 ft (DGAC letter 54-063 SFACT/TC dated October 28, 1985).
- Noise Limitation: arrêté du 19 Février 1987 relatif au certificat de limitation de nuisance.
- Ditching: compliance with FAR Part 25 requirements regarding ditching (FAR 25-801) was shown.
- Icing Conditions: compliance with FAR Part 25 requirements regarding flight in icing conditions (FAR 25-1093 and 25-1419) was shown.

7. Exemptions

D-GENE-02: Door between Passenger Compartments

8. Deviations

None

9. Equivalent Safety Findings

Compliance with requirements of FAR, Part 25, regarding Type III emergency exit handle lighting III (FAR 25-811 e (3)) was showed on a safety equivalent basis.

D-GENE-03: Improved Flammability Standards for Thermal / Acoustic Insulation Materials Used in Large Aeroplanes

10. Environmental Protection

ICAO Annex 16 Volume I Chapter 3.

ICAO Annex 16 Volume I Chapter 4 if modifications M5393 is embodied.

See TCDSN UK.TC.A.00161 for details

Section 3: Mystère-Falcon 900EX (F900EX)

11. Operational Suitability Requirements

Master Minimum Equipment List (MMEL)

JAR-MMEL/MEL Section 1 Subpart A&B, Amendment 1, effective on August 1, 2005

Flight Crew Data (FCD)

CS-FCD Initial Issue, effective on January 31, 2014

Section 3: Mystère-Falcon 900EX (F900EX)

III. Technical Characteristics and Operational Limitations**1. Type Design Definition**

The type aircraft is defined in modification M3000 revision B2 of Mystère Falcon 900 (F900EX Technical specification are detailed in document DTM 35-I-177/94 at latest revision).

Definition of reference airplane by DASSAULT AVIATION documents

A-340 DTM 5303/85 MASTER DRAWING LIST OF THE TYPE AIRCRAFT

2. Equipment

A 330/1DTM 5100/84 LISTE DES EQUIPEMENTS AVION DE TYPE

A330/2 DTM 5257/84 LISTE DES EQUIPEMENTS OPTIONS

3. Dimensions

Length	20.2 m
Span	19.33 m
Height	7.5 m
Distance between main landing gears	4.45 m

4. Engines

Model: ALLIEDSIGNAL / HONEYWELL ENGINES TFE 731-60 (EASA TCDS IM.E.011).

Number: 3.

Engine limits:

- Maximum takeoff static thrust: 2 225 daN (5 000 lbs) (sea level, not installed, ISA conditions + 17°, 5 min max).

Note: Refer to Airplane Flight Manual for engine operating instructions.

- Maximum engine operating speed:

Low pressure rotor (N1) 21 000 RPM
 Transient (1 second) 100 % to 100,5 %
 High pressure rotor (N2) 31 485 RPM
 Transient (1 second) 100 % to 100,5 %

- Maximum Interstage Turbine Temperatures (ITT)

During starting on ground 994°C
 During starting in flight 994°C
 Takeoff (5 minutes) 1 022°C
 Transient (10 seconds) 1 032°C
 Maximum continuous 991°C

Section 3: Mystère-Falcon 900EX (F900EX)

- Oil pressure limits
 - At idle 25 to 46 psi
 - Takeoff and maximum continuous 38 to 46 psi
 - Transient max 100 psi
- Oil temperature limits (at fan gearbox inlet)
 - Maximum, from sea level up to 30,000 ft 127°C
 - Maximum above 30,000 ft 140°C
 - Maximum transient at any operational altitude (2 minutes) 149°C
 - Minimum, continuous operation 30°C
- Fuel pressure
 - Minimum fuel pressure warning 4,5 psi

5. **Auxiliary Power Unit**

Model: ALLIEDSIGNAL / HONEYWELL ENGINES COMPANY - GTCP 36 - 150(F)

APU limits: usable for ground operation only
 EGT Normal operation: 720°C - Maximum: 973°C
 RPM Normal operation: 102% - Maximum: 110%

6. **Fluids (Fuel, Oil, Additives, Hydraulics)**

- Fuel conforming to specifications:
 See AFM
- Lubricating system conforming to specifications:
 See AFM

7. **Fluid Capacities**

Fuel capacity
 (Initial specification has been confirmed through tests)

	Liters	kg (*)	US Gallons	lbs (*)
USABLE FUEL				
Left wing	2 129	1 710	563	3 769
Left center fuselage	822	660	217	1 455
Front left tank	534	429	141	945
Left feeder tank	481	386	127	852
Total left circuit	3 966	3 185	1 048	7 021

Section 3: Mystère-Falcon 900EX (F900EX)

	Liters	kg (*)	US Gallons	lbs (*)
Right wing	2 129	1 710	563	3 769
Right center fuselage	822	660	217	1 455
Front right tank	509	409	135	901
Right feeder tank	481	386	127	852
Total right circuit	3 941	3 165	1 041	6 977
Front tank	1 656	1 330	438	2 932
Aft tank	1 706	1 370	451	3 020
Aft compartment tank	300	241	79	531
Center feeder tank	193	155	51	342
Total center circuit	3 857	3 097	1 019	6 828
TOTAL USABLE	11 764	9 446	3 109	20 825
UNUSABLE FUEL				
Drainable:				
Left circuit	21,4	17,2	6	38
Right circuit	23,0	18,5	6	41
Center circuit	19,8	15,9	5	35
Trapped: Tanks and lines	26	21	7	46
TOTAL UNUSABLE	90	73	24	160
TOTAL FUEL PER ENGINE				
Left circuit				
Right circuit	3 996,14	3 208,9	1 056	7 074,4
Center circuit	3 972,76	3 190,1	1 050	7 033,1
	3 885,52	3 120,1	1 027	6 878,6
TOTAL FUEL	11 854	9 519	3 133	20 986

* Fuel density: 0,803 kg/l

- Refer to weight and balance report of each individual airplane for exact capacity.

- Refer to **Error! Reference source not found.** for information on the use of fuel additives.

Oil Capacity

Total oil engine capacity : 6,9 l. (7,3 quarts)

Section 3: Mystère-Falcon 900EX (F900EX)

Usable	:	3,8 l. (4,05 quarts)
Unusable	:	1,2 l. (1,25 quart)

8. **Airspeed Limits**

(Unless otherwise specified, speeds are indicated airspeeds)

VMO	at sea level	350 kt
VMO	straight line variation up to 10,000 ft	370 kt
VMO	from 10,000 ft to 25,000 ft	370 kt

Weight lower than 15,980 kg (35,000 lbs)

MMO	from 25,000 to 38,000 ft	0,87
MMO	from 38,000 to 42,000 ft, straight line variation down to ...	0,84
MMO	above 42,000 ft	0,84

Weight higher than 15,890 kg (35,000 lbs)

MMO	from 25,000 to 33,000 ft	0,87
MMO	from 33,000 to 37,000 ft, straight line variation down to ...	0,84
MMO	above 37,000 ft	0,84

V _A	maneuvering speed	228 kt
V _{FE}	slats + flaps 7°	200 kt
	slats + flaps 20°	190 kt
	slats + flaps 48°	180 kt

Note: Above 20,000 ft, do not extend, nor keep extended slats and flaps.

V _{LO}	Landing gear operation	190 kt
M _{LO}	.....	0,70
V _{LE}	Landing gear extended	245 kt
M _{LE}	.....	0,75
	DV window opening speed.....	215 kt
	windshield wiper operating speed	215 kt
V _{MCA}	minimum control speed in flight.....	85,2 kt (CAS)
V _{MCG}	minimum control speed on ground	88,9 kt (CAS)

9. **Maximum Operating Altitude**

Aircraft is approved for 51 000 feet operation

10. **All Weather Capability**

Cat II PA

HUD Cat I (M2912)

HUD Cat 2/3 (M2913)

Section 3: Mystère-Falcon 900EX (F900EX)

11. Maximum Weights

Without M3020 (BS N° 1)	Weight		Forward limit % MAC	Aft limit % MAC
	kg	lbs		
Minimum flight	9 390	20 700	14	31
Maximum zero fuel	14 000	30 864	14	31
Maximum landing	19 051	42 000	14	31
Maximum for aft CG at 31 %	21 228	46 800	14	31
Maximum takeoff	21 908	48 300	14	24,20
Maximum ramp	22 000	48 500	14	23,45

With M3020 (BS N° 1)	Weight		Forward limit % MAC	Aft limit % MAC
	kg	lbs		
Minimum flight	9 390	20 700	13	31
Maximum zero fuel	14 000	30 864	13	31
Maximum landing	20 185	44 500	13	31
Maximum for aft CG at 31 %	21 228	46 800	13	31
Maximum takeoff	22 226	49 000	13	21,35
Maximum ramp	22 317	49 200	13	20,50

Note: 13 % MAC is 347 mm forward of datum

25 % MAC is datum

14 % MAC is 318 mm forward of datum

31 % MAC is 173 mm aft of datum

Gear retraction has a negligible effect on CG range (- 50 mkg, i.e. 0.2 % on CG range at minimum flight weight).

12. Datum

Datum is 25 % of mean aerodynamic chord (MAC) which is marked on aircraft and is 10 679 mm from the forward end of the aircraft nose cone. 0 % MAC is at 9 957 mm from the forward end of the aircraft.

13. Mean Aerodynamic Chord (MAC)

MAC = 2 888 mm

14. Levelling Means

A bubble type level may be placed on the head of screws provided on structural components in the fuselage rear compartment.

Levelling can be obtained in the lateral and longitudinal directions.

15. Minimum Flight Crew

Two pilots (One pilot and one copilot).

Section 3: Mystère-Falcon 900EX (F900EX)

16. Maximum Seating Capacity

19 seats in the passenger cabin.

12 passengers accommodation cabin layout taken as a reference for performance is given by document F900EX DTM 35-1-177/94.

17. Exits

	Type	Size
1 Passenger door	I	0.800*1.72m (31.50*67.72in)
2 Emergency exit	III	0.534*0.916m

18. Baggage/ Cargo Compartment

1 300 kg and 600 kg per square meter.

19. Wheels and Tyres

This aircraft is equipped with wheels, brakes and tubeless and radial tires.

Main wheel tyres are 29*7.7 -15"

Nose wheel tyres are 17.5*5.75 - 8".

20. Environmental Flight Envelope

Refer to approved Airplane Flight Manual.

21. Other Limitations

Refer to approved Airplane Flight Manual.

22. Hydraulics

Hydraulic fluid approved for use must conform to MIL-H-5606 specifications (NATO codes H515 or H520)

23. Notes

FM immunity

The F900EX is compliant to:

- FM immunity for navigation system VOR/ILS against ICAO Annex 10, Vol I, §3.1.4 and §3.3.8 provided modification M2288 is applied.

FM immunity for communication system VHF against ICAO Annex 10, Vol III, §2.3.3 provided modification M2712 is applied.

Section 3: Mystère-Falcon 900EX (F900EX)

IV. Operating and Service Instructions

The Operating and Service Instructions listed below are approved by the European Union Aviation Safety Agency under EASA Type Certificate EASA.A.062 in accordance with Commission Regulation (EU) 748/2012 as amended.

These instructions and any future revisions are either accepted under Article 13 of Annex 30 of the UK-EU Trade and Cooperation Agreement or subject to approval by Validation under Article 10 of Annex 30 of the UK-EU Trade and Cooperation Agreement, for use by UK operators.

The Type Certificate Holder should be contacted to verify the applicability of any Operational and Service Instructions within the UK.

1. Airplane Flight Manual (AFM)

Airplane Flight Manual: documents DTM561. ^{Note 8}

2. Instructions for Continued Airworthiness and Airworthiness Limitations

Instructions for Continued Airworthiness and Airworthiness Limitations, included in FIELD publication, that consist of :

- Airworthiness Limitation Section (Chapter 5-40, reference: DGT 113874) ^{Note 8}
- Maintenance Planning Document (Chapter 5):
 - Reference: DGT 125288
- Airplane Maintenance Manual
- Fault Isolation Manual
- Illustrated Parts Catalog (part list only)
- Structural Repair Manual (Part 1)
- Wiring Diagram Manual

3. Service Letters and Service Bulletins

Service Bulletins are listed in Service Bulletin index

4. Various statements

The F900EX is compliant to:

- CVR (JAR-OPS1) requirements (2 hours) provided the modification M2819 is applied
- EGPWS (JAR-OPS 1 § 665) provided the modification M2811 is applied and the airplane is operated in accordance with the associated AFM Supplement 7.
- TCAS II change 7 (JAR OPS 1 § 668) (M3219 or S/B F900EX-89 or M3236 or M3382 or M3428 or M3527 or M3540 or M3627) if the airplane is operated in accordance with the associated Airplane Flight Manual Supplements.

Section 3: Mystère-Falcon 900EX (F900EX)

5. Approved Operations

The Falcon F900EX is eligible for the following kinds of operation when the appropriate equipment and instruments required by the operating requirements are installed (since TC or through dedicated M or M-Opt or equivalent SB), approved, and operating as defined by the AFM:

Nota 1 : Operational approval shall be granted by the appropriate authority before conducting the operation

Approved operations	Configuration requirements
IFR (Instrument)	Basic
Day and night VFR	Basic
Operations in Icing conditions	Basic
Manual or Automatic Category I approaches and non precision approaches	Basic
Automatic Category II approaches	Basic
Manual Cat. II / III approach with Rockwell-Collins HGS 4860	cf. AFM SUP 21/21A
SSR mode S Enhanced Surveillance	A/C with M3896
RVSM	A/C with SB F900EX-4
Extended flight over water and uninhabited terrain	Basic
Polar operations (limited 85° North / 85° South)	Basic
Contaminated runways operation-	Basic
Steep approach landing up to 5.5/6.0 degrees	Basic
Landing and take off between 8000 ft and 14000 ft.	A/C with M3621
Operations with landing gear down	Basic
IFR OCEANIC / RNP 10	Basic
NAT-MNPS	See AFM SUP19,19A, 19B, 19C, 19D, 19E
B-RNAV / RNP 5	Basic
P-RNAV (JAA TGL-10)	Basic
AC 90-100A US TERMINAL AND EN ROUTE AREA NAVIGATION (RNAV) OPERATIONS	Basic
Specific close-in Noise Abatement Departure Procedure (NADP), with reduction at a minimum of 400 feet AGL	Basic

Section 3: Mystère-Falcon 900EX (F900EX)

V. Operational Suitability Data (OSD)

The Operational Suitability Data elements listed below are approved by the European Union Aviation Safety Agency under the EASA Type Certificate EASA.A.062 as per Commission Regulation (EU) 748/2012 as amended. ^{Note 8}

These OSD elements and any future revisions are either accepted under Article 13 of Annex 30 of the UK-EU Trade and Cooperation Agreement or subject to approval by Validation under Article 10 of Annex 30 of the UK-EU Trade and Cooperation Agreement, for use by UK operators.

1. Master Minimum Equipment List

The MMEL grandfathered as per the defined OSD certification basis in chapter II.11, Operational Suitability Manual: Master Minimum Equipment List, document ref. DTM565, revision 3, dated 05 November 2009, or later accepted or approved revisions. The Type Certificate Holder should be contacted to verify the applicability of any MMEL revision within the UK.

2. Flight Crew Data

The Flight Crew Data grandfathered as per the defined OSD certification basis in chapter II.11, Operational Suitability Manual - Flight Crew, document ref. DGT148650, revision original, dated 04 September 2015, or later accepted or approved revisions. The Type Certificate Holder should be contacted to verify the applicability of any FCD revision within the UK.

The Pilot Type Rating for Falcon 900EX is: Falcon 50/900

3. Cabin Crew Data

Not available

4. Simulator Data

Not available

5. Maintenance Certifying Staff Data

Not available

Section 3: Mystère-Falcon 900EX (F900EX)

VI. Falcon 900EX EASy version

F900EX EASy designation does not correspond to new model designation. F900EX EASy is a commercial designation for airplanes on which the following modifications have been applied:

- Step 1: M3083, M2862, M2861, M2963, M2823.
- Step 2: M3795, M3784
- Step 3: M3876, M3706

1. Type Certification Basis

Reference Application Date for EASA Certification: November 8th, 1999
EASA Certification Date (JAA recommendation): November 13th, 2003

Modifications M2862, M2861, M2963 and M2823 are Major Level 2 (Non Significant Changes). They have the same certification basis as for F900EX (defined in above § **Error! Reference source not found.**)

Modification M3083 is Major Level 1 (Significant Change). Its certification basis consist of the followings:

Airworthiness Specifications:

JAR 25 paragraphs applicable at Change 14 plus OP Amdt 25/96/1 (and associated Reversions, if any):

- JAR 25.207 “Stall warning”
- JAR 25.581 “Lightning protection”
- JAR 25.601 “General”
- JAR 25.611 “Accessibility provisions”
- JAR 25.631 “Bird strike damage”
- JAR 25.671 (b)(c) “Control systems: general”
- JAR 25.672 “Stability augmentation and automatic
- JAR 25.677 (b) “Trims systems”
- JAR 25.699 “Lift and drag device indicator”
- JAR 25.703 “Take-Off warning systems”
- JAR 25.729 (e) “Retracting mechanism”
- JAR 25.771 (a)(c)(e) “Pilot compartment”
- JAR 25.773 (a)(d) “Pilot Compartment View”
- JAR 25.777 (a)(c)(b)(d)(e)(f): « Cockpit controls »
- JAR 25.783 (e) “Doors”
- JAR 25.789(a): “Retention of items of mass in passenger and crew compartments and galleys”
- JAR 25.791(a)(b): “Passenger information signs and placards”
- JAR 25.812(f): “Emergency lighting”
- JAR 25.841(b)(5)(b)(6) “Pressurised cabins”
- JAR 25.863 (c) “Flammable fluid fire protection”
- JAR 25.869 (a) “Fire protection: systems – Electrical system components”
- JAR 25X899 “Electrical bonding and protection”
- JAR 25.903 (d)(2): « Engines »
- JAR 25.1141(a) (f): « Powerplant controls- General »
- JAR 25.1145 (a)(b) “Ignition switches”
- JAR 25.1203 (b)(2)(b)(3)(d): « Fire-detector system »

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- JAR 25.1301: « Function and Installations »
- JAR 25.1303: « Flight and Navigation Instruments »
- JAR 25.1305: « Powerplant Instruments »
- JAR 25.1307 (c)(d)(e): « Miscellaneous equipments »
- JAR 25.1309: « Equipment, systems and installations »
- JAR 25X1315: « Negative acceleration »
- JAR 25.1316: « System lightning protection »
- JAR 25.1321: « Arrangement and visibility »
- JAR 25.1322: « Warning, Caution and advisory lights »
- JAR 25.1323: « Airspeed indicating system »
- JAR 25.1325(a)(c)(d)(e)(f)(g): « Static pressure systems »
- JAR 25.1326: « Pitot heat indication systems »
- JAR 25.1327: « Magnetic direction indicator »
- JAR 25X1328: « Direction indicator »
- JAR 25.1329: « Automatic pilot system »
- JAR 25.1331: « Instruments using a power supply »
- JAR 25.1333: « Instrument systems »
- JAR 25.1335: « Flight director systems »
- JAR 25.1337(b)(d): « Powerplant instruments »
- JAR 25.1351: « Electrical systems and equipment - General » ⇒ Reversion to FAR 25.1351 Amdt 41 accepted.
- JAR 25.1353: « Electrical equipment and installations » ⇒ Reversion to FAR 25.1353 Amdt 42 accepted.
- JAR 25.1355: “Distribution system” ⇒ Reversion to FAR 25.1355 Amdt 38 accepted
- JAR 25.1357: « Circuit protective devices »
- JAR 25X1360 “Precautions against injury”
- JAR 25.1381 Instrument Lights
- JAR 25.1419 (c) “Ice protection”
- JAR 25.1431 Electronic Equipment
- JAR 25.1435 (a)(2) “Hydraulic systems”
- JAR 25.1457 “Cockpit voice recorders”
- JAR 25.1459 “Flight recorders”
- JAR 25.1501 (b)(c) “General”
- JAR 25.1523 “Minimum flight crew”
- JAR 25X1524 Systems and equipment limitations
- JAR 25.1529 Instructions for Continued Airworthiness
- JAR 25.1541 “Markings and placards – General”
- JAR 25.1543 (b) Instrument Markings: General
- JAR 25.1545 Airspeed limitation information
- JAR 25.1547 Magnetic Direction Indicator
- JAR 25.1549 Powerplant Instruments
- JAR 25.1551 “Oil quantity indicator”
- JAR 25.1553 “Fuel quantity indicator”
- JAR 25.1555 “Control and markings”
- JAR 25.1563 “Airspeed placards”
- JAR 25.1581 “Aeroplane flight manual – General”
- JAR 25.1585 (a)(b)(d)(e) “Operating procedures”
- JAR 25A1141 (a)(d) “APU controls: general”
- JAR 25A1305 “All APUs – APU instrument”
- JAR 25A1549 “All APUs – APU instruments”

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- JAR25A1551 “All APUs – Oil quantity indicator”

Special Conditions:

- F-06: EGPWS Airworthiness Approval (from basic F900EX)
- F-21: Electronic Stand-by Instrument system (from basic F900EX)
- F-1106: Protection against HIRF
- F-1123: Requirements for Human Factors
- F-1130: Micro IRS (MIRS)
- F-1154: Data Link Services for the Single European Sky
- F-1155: Flight Recorders including Data Link Recording

Exemptions:

None

Equivalent Safety Findings:

- D-1115: Lift and Drag Devices Indicator
- E-1103: Powerplant instrument – Cabin Markings
- F-1136: Honeywell Primus EPIC Integrated Modular Avionics system (compliance with requirements for individual protection) ; JAR 25.1357 (e) and JAR 25.1309
- D-1124: Table Obstruction to Type III Emergency Exits (aeroplanes with M-OPT0135 and M-OPT0239).

2. Operational Suitability Data (OSD) Certification Basis

Reference date for the definition of the OSD certification basis : February 17th 2014

OSD Specifications:

MMEL: JAR-MMEL/MEL Section 1 Subpart A&B, Amendment 1, effective on August 1, 2005
FCD: CS-FCD Initial Issue, effective on January 31, 2014

3. Environmental Protection Requirements:

ICAO Annex 16 Volume I Chapter 3.

ICAO Annex 16 Volume I Chapter 4 if modification M5393 is embodied.

See TCDSN UK.TC.A.00161 for details.

4. Technical Characteristics and Operational Limitations

4.1. Type Design Definition

F900EX EASy designation does not correspond to new model designation. F900EX EASy is a commercial designation for airplanes on which the following modifications have been applied:

- Step 1: M3083, M2862, M2861, M2963, M2823.
- Step 2: M3795, M3784
- Step 3: M3876, M3706

M3083-01-102 (DGT 97670) - F900EX EASy Drawing List

4.2. Equipment

M3083-01-101 (DGT98284) - F900EX EASy Equipment List

Section 3: Mystère-Falcon 900EX (F900EX)

4.3. All Weather Capability

Cat I provided the aircraft is operated according to Flight Manual DGT84972

Cat II provided the aircraft is operated according to Flight Manual DGT84972 Annex 2

HUD Cat I (M3090, M3968).

HUD Cat 2/3 (M3725 EASY Step2 and M5089 EASY Step3).

5. Operating and Service Instructions

Airplane Flight Manual: Document DGT84972. Note 8

Instructions for Continued Airworthiness and Airworthiness Limitations, included in FIELD publication, that consist of :

- Airworthiness Limitation Section (Chapter 5-40, reference: DGT 113875)^{Note 8}
- Maintenance Planning Document (Chapter 5):
 - o Reference: DGT 125289
- Airplane Maintenance Manual
- Fault Isolation Manual
- Illustrated Parts Catalog (part list only)
- Structural Repair Manual (Part 1)
- Wiring Diagram Manual

Various statements

The F900EX EASy is compliant to:

- GPS primary means provided the airplane is operated in accordance with associated Airplane Flight Manual.
- CVR (JAR-OPS1) requirements (2 hours).
- EGPWS (JAR-OPS 1 § 665) provided the airplane is operated in accordance with the associated Airplane Flight Manual.
- TCAS II change 7 (JAR OPS 1 § 668) provided the airplane is operated in accordance with the associated Airplane Flight Manual.
- The ADS-B Out function certified in the frame of EASY II “2nd certification” M5595 complies with EU 1028-2014 and CS-ACNS.

6. Approved Operations

The Falcon F900EXEASy, F900DX are eligible for the following kinds of operation when the appropriate equipment and instruments required by the operating requirements are installed (since TC or through dedicated M or M-Opt or equivalent SB), approved, and operating as defined by the AFM:

Nota 1 : Operational approval shall be granted by the appropriate authority before conducting the operation

Approved operations	Configuration requirements
IFR (Instrument)	Basic
Day and night VFR	Basic
Operations in Icing conditions	Basic
Manual or Automatic Category I approaches and non precision approaches	Basic
Automatic Category II approaches	Basic
Automatic Cat. II approaches with HUD monitoring / EVS	cf. AFM SUP 22 / 22A / 22B (Rockwell-Collins HGS 4860)

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Approved operations	Configuration requirements
Manual Cat. II / III approach with Rockwell-Collins HGS 4860	cf. AFM SUP 22 / 22A / 22B
LPV approaches	A/C with M-OPT087
SSR mode S Enhanced Surveillance	Basic
RVSM	Basic
RNP RNAV operations, down to RNP 0.3 RNAV (RTCA/DO-236A and DO-283)	Basic
Extended flight over water and uninhabited terrain	Basic
Polar operations (limited 85° North / 85° South)	Basic
Contaminated runways operation	Basic
Steep approach landing up to 5.5/6.0 degrees	Basic
Landing and take off between 8000 ft and 14000 ft.	A/C with M5071
Operations with landing gear down	Basic
ADS-B Out function	A/C with M-OPT081/181
IFR OCEANIC / RNP 10 / NAT-MNPS	Basic
B-RNAV / RNP 5	Basic
RNP 4 OCEANIC AND REMOTE AIRSPACES	A/C with M-OPT137
RNP 2 OCEANIC AND REMOTE AIRSPACES	A/C with M-OPT137
RNP 1 / RNP 2 TERMINAL AND EN ROUTE	Basic
P-RNAV (JAA TGL-10)	Basic
AC 90-100A US TERMINAL AND EN ROUTE AREA NAVIGATION (RNAV) OPERATIONS	Basic
RNP AR 0.3 APPROACH	Basic
Specific close-in Noise Abatement Departure Procedure (NADP), with reduction at a minimum of 400 feet AGL	Basic

7. Operational Suitability Data

The Operational Suitability Data elements listed below are approved by the European Union Aviation Safety Agency under the EASA Type Certificate EASA.A.062 as per Commission Regulation (EU) 748/2012 as amended. ^{Note 8}

These OSD elements and any future revisions are either accepted under Article 13 of Annex 30 of the UK-EU Trade and Cooperation Agreement or subject to approval by Validation under Article 10 of Annex 30 of the UK-EU Trade and Cooperation Agreement, for use by UK operators.

7.1. Master Minimum Equipment List

The MMEL grandfathered as per the defined OSD certification basis in chapter II.2, Operational Suitability Manual: Master Minimum Equipment List, document ref DGT88389, revision 11, dated 10 September 2013,

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or later accepted or approved revisions. The Type Certificate Holder should be contacted to verify the applicability of any MMEL revision within the UK.

7.2. Flight Crew Data

The Flight Crew Data approved as per the defined OSD certification basis in chapter II.2, Operational Suitability Manual - Flight Crew, document ref. DGT148652, revision original, dated 04 September 2015, or later accepted or approved revisions. The Type Certificate Holder should be contacted to verify the applicability of any FCD revision within the UK.

The Pilot Type Rating for Falcon 900EX EASy is: **Falcon 900EX EASy**

7.3. SIM Data

Not available.

7.4. Maintenance Certifying Staff Data

Not available.

7.5. Cabin Crew Data

Not available.

Section 3: Mystère-Falcon 900EX (F900EX)

VII. Falcon 900DX version

F900DX designation does not correspond to new model designation. F900DX is a commercial designation for F900EX airplanes on which the following modifications have been applied:

- Modification Major Level 1: M4000.
- Modification Major Level 2: M3876, M5046, M3755, M2823.

1. Type Certification Basis

Reference Application Date for EASA Certification: June 20th, 2003
EASA Certification Date (JAA recommendation): October 21st, 2005

Airworthiness Specifications:

Modifications M3876, M5046, M3755, and M2823 are Major Level 2 Non Significant Changes. Modification M4000 is Major Level 1 Non-Significant Change.

These modifications have no impact on applicable requirements. Amendment levels from original F900EX type certification and most recent significant change (M3083 EASY) are retained.

Special Conditions:

None.

Exemptions:

None.

Equivalent Safety Findings:

None

2. Operational Suitability Data (OSD) Certification Basis

Reference date for the definition of the OSD certification basis : February 17th 2014

OSD Specifications:

MMEL: JAR-MMEL/MEL Section 1 Subpart A&B, Amendment 1, effective on August 1, 2005
FCD: CS-FCD Initial Issue, effective on January 31, 2014

3. Environmental Protection Requirements:

ICAO Annex 16 Volume I Chapter 4

See TCDSN UK.TC.A.00161 for details

4. Technical Characteristics and Operational Limitations

4.1. Type Design Definition

F900DX airplane have received modifications:

M3876: F900EX EASY Step 3

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M5046: FQMC 1-6
 M3755: Rear compartment Fire detection deletion
 M2823: Electro pneumatic oxygen controller
 M4000: Definition of F900DX

4.2. Equipment

See modifications here above.

4.3. Fuel Capacity

USABLE FUEL	Liters	kg (*)	US Gallons	lbs (*)
Left wing and half center wing box:	3423	2749	904	6060
Right wing and half center wing box:	3439	2762	908	6088
Rear tank:	1945	1562	514	3443
Front tank:	1833	1472	484	3245
TOTAL USABLE	10640	8545	2810	18836

TOTAL FUEL PER ENGINE	Liters	kg (*)	US Gallons	lbs (*)
Left circuit	3423	2748	856	6060
Right circuit	3439	2762	909	6090
Center circuit	3773	3030	997	6680
TOTAL FUEL	10636	8541	2811	18830

Total unusable fuel: 67kg

4.4. Maximum Weight

Without M5051 embodied:

With M4000	Weight	
	kg	lbs
Maximum zero fuel	14,000	30,864
Maximum landing	19,142	42,200
Maximum takeoff	21,183	46,700
Maximum ramp	21,273	46,900
Minimum flight	9,390	20,700

Section 3: Mystère-Falcon 900EX (F900EX)

With M5051 embodied:

With M4000	Weight	
	kg	lbs
Maximum zero fuel	14,000	30,864
Maximum landing	20,185	44,500
Maximum takeoff	22,226	49,000
Maximum ramp	22,317	49,200
Minimum flight	9,390	20,700

5. Operating and Service Instructions

Airplane Flight Manual: Document DGT84972 and Document DGT122759 (Supplement 21 for A/C with M5051. ^{Note 8}

Instructions for Continued Airworthiness and Airworthiness Limitations, included in FIELD publication, that consist of :

- Airworthiness Limitation Section (Chapter 5-40, reference: DGT 113875) ^{Note 8}
- Maintenance Planning Document (Chapter 5):
 - o Reference: DGT 125290
- Airplane Maintenance Manual
- Fault Isolation Manual
- Illustrated Parts Catalog (part list only)
- Structural Repair Manual (Part 1)
- Wiring Diagram Manual

Various statements

The F900DX EASy is compliant to:

- GPS primary means provided the airplane is operated in accordance with associated Airplane Flight Manual.
- CVR (JAR-OPS1) requirements (2 hours).
- EGPWS (JAR-OPS 1 § 665) provided the airplane is operated in accordance with the associated Airplane Flight Manual.
- TCAS II change 7 (JAR OPS 1 § 668) provided the airplane is operated in accordance with the associated Airplane Flight Manual.

6. Approved Operations

The Falcon F900EXEASy, F900DX are eligible for the following kinds of operation when the appropriate equipment and instruments required by the operating requirements are installed (since TC or through dedicated M or M-Opt or equivalent SB), approved, and operating as defined by the AFM:

Nota 1 : Operational approval shall be granted by the appropriate authority before conducting the operation

Approved operations	Configuration requirements
IFR (Instrument)	Basic
Day and night VFR	Basic
Operations in Icing conditions	Basic

Section 3: Mystère-Falcon 900EX (F900EX)

Approved operations	Configuration requirements
Manual or Automatic Category I approaches and non precision approaches	Basic
Automatic Category II approaches	Basic
Automatic Cat. II approaches with HUD monitoring / EVS	cf. AFM SUP 22 / 22A / 22B (Rockwell-Collins HGS 4860)
Manual Cat. II / III approach with Rockwell-Collins HGS 4860	cf. AFM SUP 22 / 22A / 22B
LPV approaches	A/C with M-OPT087
SSR mode S Enhanced Surveillance	Basic
RVSM	Basic
RNP RNAV operations, down to RNP 0.3 RNAV (RTCA/DO-236A and DO-283)	Basic
Extended flight over water and uninhabited terrain	Basic
Polar operations (limited 85° North / 85° South)	Basic
Contaminated runways operation	Basic
Steep approach landing up to 5.5/6.0 degrees	Basic
Landing and take off between 8000 ft and 14000 ft.	A/C with M5071
Operations with landing gear down	Basic
ADS-B Out function	A/C with M-OPT081/181
IFR OCEANIC / RNP 10 / NAT-MNPS	Basic
B-RNAV / RNP 5	Basic
RNP 4 OCEANIC AND REMOTE AIRSPACES	A/C with M-OPT137
RNP 2 OCEANIC AND REMOTE AIRSPACES	A/C with M-OPT137
RNP 1 / RNP 2 TERMINAL AND EN ROUTE	Basic
P-RNAV (JAA TGL-10)	Basic
AC 90-100A US TERMINAL AND EN ROUTE AREA NAVIGATION (RNAV) OPERATIONS	Basic
RNP AR 0.3 APPROACH	Basic
Specific close-in Noise Abatement Departure Procedure (NADP), with reduction at a minimum of 400 feet AGL	Basic

7. Operational Suitability Data

The Operational Suitability Data elements listed below are approved by the European Union Aviation Safety Agency under the EASA Type Certificate EASA.A.062 as per Commission Regulation (EU) 748/2012 as amended. ^{Note 8}

Section 3: Mystère-Falcon 900EX (F900EX)

These OSD elements and any future revisions are either accepted under Article 13 of Annex 30 of the UK-EU Trade and Cooperation Agreement or subject to approval by Validation under Article 10 of Annex 30 of the UK-EU Trade and Cooperation Agreement, for use by UK operators.

7.1. Master Minimum Equipment List

The MMEL grandfathered as per the defined OSD certification basis in chapter II.2, Operational Suitability Manual: Master Minimum Equipment List, document ref DGT88389, revision 11, dated 10 September 2013, or later accepted or approved revisions. The Type Certificate Holder should be contacted to verify the applicability of any MMEL revision within the UK.

7.2. Flight Crew Data

The Flight Crew Data approved as per the defined OSD certification basis in chapter II.2, Operational Suitability Manual - Flight Crew, document ref. DGT148652, revision original, dated 04 September 2015, or later accepted or approved revisions. The Type Certificate Holder should be contacted to verify the applicability of any FCD revision within the UK.

The Pilot Type Rating for Falcon 900DX is: **Falcon 900EX EASy**

7.3. SIM Data

Not available.

7.4. Maintenance Certifying Staff Data

Not available.

7.5. Cabin Crew Data

Not available.

Section 3: Mystère-Falcon 900EX (F900EX)

VIII. Falcon 900LX version

F900LX designation does not correspond to new model designation. F900LX is a commercial designation for F900EX EASy airplanes on which the following modifications M5281 and M5535 have been applied.

1. Type Certification Basis

Reference Application Date for EASA Certification: September 14th, 2004
EASA Certification Date (JAA recommendation): July 7th, 2010

Airworthiness Specifications:

Modification M5281 is classified major change level 1 significant.

The applicable airworthiness standard at the EASA application date is CS25 amendment 1.

The certification basis of the F900LX consist of the following:

A) The EASA « Mandatory » airworthiness standards that are effective on the reference date (September 14, 2006):

CS 25 amendment I and CS AWO initial issue

Except

The following paragraphs for which EASA accept reversion to an earlier amendment in application to Part 21.A.101(b)

a) FAR 25 paragraphs at amendment 0

25.109, 25.1093

b) FAR 25 paragraphs at amendment 11

25.939 (except (d)), 25.1141 (except (a) and (f))

c) FAR 25 paragraph at amendment 38

25.161, 25.933 (except (e))

d) FAR 25 paragraph at amendment 45

25.629

e) FAR 25 paragraphs at amendment 56

25.361 to 25.365, 25.399 to 25.409, 25.495, 25.497, 25.499 (except (e)) to 25.511 (except (b)), 25.561(except (b)(3) & (c)), 25.563, 25.621, 25.655, 25.657, .25.675, 25.679 to 25.681, 25.685 to 25.697, 25.701, 25.721, 25.723, 25.731, 25.733, 25.735 (except (h)) to 25.745, 25.772, 25.773(b)(c), 25.775 (except (b)), 25.779, 25.783 (except (e)), 25.785, 25.787 (except (a)), 25.793, 25.801 to 25.811, 25.812 (except (f)), 25.813 to 25.833, 25.841 (except (b)(5)(6)), 25.843 to 25.859, 25.863 (except (c)), 25.871, 25.875, 25.901 (except (b)(1) & (c)), 25.903 (except (a),(c),(d)(2)), 25.905 to 25.929, 25.937, 25.941 to 25.961, 25.963 (except (e)), 25.965 to 25.994, 25.999 to 25.1017, 25.1021 to 25.1027, 25.1041, 25.1043 to 25.1091 (except (e)), 25.1103 to 25.1127, 25.1143, 25.1145 (c), 25.1149 to 25.1165, 25.1181, 25.1183 (except (b)(1)&(c)) to 25.1197 (except (a)(2)), 25.1199, 25.1201, 25.1207, 25.1337 (a)(c), 25.1363, 25.1383, 25.1403 to 25.1415, 25.1421, 25.1433, 25.1435 (except (a)(2)) to 25.1455, 25.1461, 25.1503 to 25.1516, 25.1519, 25.1521, 25.1525, 25.1527, 25.1531, 25.1533, 25.1557, 25.1561, 25.1583, 25.1587

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f) JAR 25 paragraphs at change 13

25.499(e), 25.511(b), 25.561 (b)(3) and (c) only for AFT Fuselage Tank, Lateral Tank and Central Engines Mounts, 25.735 (h), 25.777 except (c) and (e), 25.X799, 25.934, 25.939(d), 25.1183(b)(1)&(c),

g) JAR 25 paragraphs at change 13 + OP 90/1

25.901(c), 25.903(a) & (c), 25.963(e), 25.997, 25.1019, 25.1041(f), 25.1167

h) JAR 25 paragraphs at JAR 25 change 14

25.1 to 25.33, 25.101 (except (g)), 25.103, 25.105, 25.107, 25.111, 25.115, 25.143(f), 25.147, 25.171 to 25.175, 25.181, 25.231, 25.233, 25.235, 25.237, 25.253, 25.261, 25.1351, 25.1353, 25.1419, 25.1435(a)(2)

i) JAR 25 paragraphs at change 14 plus Orange Paper 96/1

25.113, 25.119, 25.121, 25.125, 25.145, 25.149, 25.177, 25.201, 25.203, 25.207, 25.671, 25.671, 25.672, 25.677, 25.699, 25.703, 25.729(e), 25.771, 25.773(a),(d), 25.783(e), 25.789, 25.791, 25.812(f), 25.841 (b)(5)(b)(6), 25.863(c), 25.869, 25.899, 25.903(d)(2), 25.1 141(a)(f), 25.1 145(a)(b), 25.1203, 25.1301, 25.1303, 25.1305, 25.1307, 25.1309, 25.1315, 25.1321 to 25.1335, 25.1 337(b)(d)(e)(f), 25.1355 to 25.1360, 25.1381, 25.1457, 25.1459, 25.1501, 25.1523, 25.1529, 25.1541 to 25.1555, 25.1563, 25.1585, subpart J

j) CS 25 amendment 1

25.562, 25.1362, 25.1436, 25.1591 are not retained

k) JAR AWO change 2l) Complementary Technical Conditions

(DGAC letter 54-147 SFACT/TC dated November 22, 1985, with DGAC letter 53-260 SFACT/TC dated March 5, 1986, and with CRI A03 edition 3), limited to the following paragraphs:

25.561(b)(3), and 25.561(c) except for AFT Fuselage Tank, Lateral Tank and Central Engines Mounts, 25.787(a), 25.901(b)(1), 25.933(e), 25.1091(e), 25.1197(a)(2),

Special conditions:

B-1111	Steep Approach and Landing	
F-06	EGPWS Airworthiness Approval	
F-21	Electronic stand-by instrument system (MEGGITT)	
F-1106	Protection against HIRF	INT/POLI25/2 issue 2
F-1117	Head-Up Guidance system	JAR AWOG HUDS 901, 902 and 903
F-1123	Requirement for human factors	INT/POL/25/14 issue 2
F-1143	Enhanced Flight Vision System (EFVS)	
F-1154	Data Link Services for the Single European Sky	
F-1155	Flights Recorders including Data Link Recording	
F-1161	HUD installation	

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F-1162	Enhanced Flight Vision System (EFVS)	
F-1163	Synthetic Vision / Combined Vision on HUD	
F-1165	EFVS with Combined Vision on HUD	
S-01	Thrust reverser certification policy	CTC 25.933 (e)
	Special condition for flight between 41,000 and 51,000 ft	DGAC letter 54-063 SFACT/TC dated October 28, 1985

Equivalent safety:

D-1115	Lift and Drag Device Indicator
E-1103	Powerplant instruments — Color markings
F-1136	Honeywell PRIMUS EPIC integrated modular avionics system
F-1169	HUD symbology

2. Operational Suitability Data (OSD) Certification Basis

Reference date for the definition of the OSD certification basis : February 17th 2014

OSD Specifications:

MMEL: JAR-MMEL/MEL Section 1 Subpart A&B, Amendment 1, effective on August 1, 2005
FCD: CS-FCD Initial Issue, effective on January 31, 2014

3. Environmental Protection Requirements:

For noise:

ICAO Annex 16 Volume 1 Chapter 4, ICAO ETM Doc 9501, CS 36 amendment 2.

See TCDSN UK.TC.A.00161 for details.

For Emissions:

CS34 initial issue

4. Technical Characteristics and Operational Limitations

Only the paragraphs impacted by the change are described here below

4.1. Type Design Definition

Only new aircraft F900EX EASy manufactured under the DASSAULT AVIATION POA are fitted with winglets under M5281 and new slats under M5535 modifications. No Service Bulletin is planned for retrofit of aircraft in service.

F900EX EASy airplanes have received the following modifications on the production line:

M5281 Winglet installation

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- M5250 - Easy treatment of AGM obsolescence(prerequisite but not linked to winglet installation)
- M5535 External Slats setting adaptation
- M5487 Fuselage reinforcement
- M5583 Full capabilities for Winglets installations (includes wing reinforcement),
- M5454 Aileron bearing #1 change
- M5532 Guiding roller capabilities
- M5155 Wiring provision for EASy Phase 2
- M5605 Aileron Control Rod Assy Evolution

4.2. Dimensions

Length	20,2 m
Span	21,38 m
Height	7,5 m
Distance between main landing gears	4,45 m

5. All Weather Capability

Cat 1 provided the aircraft is operated according to Flight Manual DGT84972

Cat 2 provided the aircraft is operated according to Flight Manual DGT84972

6. Operating and Service Instructions

Airplane Flight Manual: Document DGT84972. Note 8

Instructions for Continued Airworthiness and Airworthiness Limitations, included in FIELD publication, that consist of :

- Airworthiness Limitation Section (Chapter 5-40, reference: DGT 113875)^{Note 8}
- Maintenance Planning Document (Chapter 5):
 - o Reference: DGT 125289
- Airplane Maintenance Manual
- Fault Isolation Manual
- Illustrated Parts Catalog (part list only)
- Structural Repair Manual (Part 1)
- Wiring Diagram Manual

Various statements

The F900LX is compliant to:

- GPS primary means provided the airplane is operated in accordance with associated Airplane Flight Manual.
- CVR (JAR-OPS1) requirements (2 hours).
- EGPWS (JAR-OPS 1 § 665) provided the airplane is operated in accordance with the associated Airplane Flight Manual.
- TCAS II change 7 (JAR OPS 1 § 668) provided the airplane is operated in accordance with the associated Airplane Flight Manual.

7. Approved Operations

The Falcon F900LX is eligible for the following kinds of operation when the appropriate equipment and instruments required by the operating requirements are installed (since TC or through dedicated M or M-Opt or equivalent SB), approved, and operating as defined by the AFM:

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Nota 1 : Operational approval shall be granted by the appropriate authority before conducting the operation

Approved operations	Configuration requirements
IFR (Instrument)	Basic
Day and night VFR	Basic
Operations in Icing conditions	Basic
Manual or Automatic Category I approaches and non precision approaches	Basic
Manual or Automatic Category I approaches and non precision approaches and RNP AR 0.3 with FalconEye EVS operational credit down to 100 feet	cf. AFM SUP24A (M-OPT00193)
Automatic Category II approaches	Basic
Automatic Cat. II approaches with HUD monitoring / EVS	cf. AFM SUP 22 / 22A / 22B / 24/24A (Rockwell-Collins HGS 4860 / FalconEye HUD)
Manual Cat. II / III approach with Rockwell-Collins HGS 4860	cf. AFM SUP 22 / 22A / 22B
LPV approaches	A/C with M-OPT087
SSR mode S Enhanced Surveillance	Basic
RVSM	Basic
RNP RNAV operations, down to RNP 0.3 RNAV (RTCA/DO-236A and DO-283)	Basic
Extended flight over water and uninhabited terrain	Basic
Polar operations (limited 85° North / 85° South)	Basic
Contaminated runways operation-	Basic
Steep approach landing up to 5.5/6.0 degrees	Basic
Landing and take off between 8000 ft and 14000 ft.	A/C with M5071
Operations with landing gear down	Basic
ADS-B Out function	A/C with M-OPT081/181
IFR OCEANIC / RNP 10 / NAT-MNPS	Basic
B-RNAV / RNP 5	Basic
RNP 4 OCEANIC AND REMOTE AIRSPACES	A/C with M-OPT137
RNP 2 OCEANIC AND REMOTE AIRSPACES	A/C with M-OPT137
RNP 1 / RNP 2 TERMINAL AND EN ROUTE	Basic
P-RNAV (JAA TGL-10)	Basic
AC 90-100A US TERMINAL AND EN ROUTE AREA NAVIGATION (RNAV) OPERATIONS	Basic

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Approved operations	Configuration requirements
RNP AR 0.3 APPROACH	Basic
Specific close-in Noise Abatement Departure Procedure (NADP), with reduction at a minimum of 400 feet AGL	Basic

8. Operational Suitability Data

The Operational Suitability Data elements listed below are approved by the European Union Aviation Safety Agency under the EASA Type Certificate EASA.A.062 as per Commission Regulation (EU) 748/2012 as amended. ^{Note 8}

These OSD elements and any future revisions are either accepted under Article 13 of Annex 30 of the UK-EU Trade and Cooperation Agreement or subject to approval by Validation under Article 10 of Annex 30 of the UK-EU Trade and Cooperation Agreement, for use by UK operators.

8.1. Master Minimum Equipment List

The MMEL grandfathered as per the defined OSD certification basis in chapter II.2, Operational Suitability Manual: Master Minimum Equipment List, document ref DGT88389, revision 11, dated 10 September 2013, or later accepted or approved revisions. The Type Certificate Holder should be contacted to verify the applicability of any MMEL revision within the UK.

8.2. Flight Crew Data

The Flight Crew Data approved as per the defined OSD certification basis in chapter II.2, Operational Suitability Manual - Flight Crew, document ref. DGT148652, revision original, dated 04 September 2015, or later accepted or approved revisions. The Type Certificate Holder should be contacted to verify the applicability of any FCD revision within the UK.

The Pilot Type Rating for Falcon 900LX is: **Falcon 900EX EASy**

8.3. SIM Data

Not available.

8.4. Maintenance Certifying Staff Data

Not available.

8.5. Cabin Crew Data

Not available.

Section 2: Administration

Section 4 Administration

I. Notes

Note 1:

- a) A current weight and balance report, including the list of the certified empty weight equipment and the loading instructions (Performance Manual - Section 2) must be carried in the aircraft at all times from the moment the aircraft is originally certified.
- 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.
- c) The weight of unusable fuel must be included in the aircraft empty weight and the fuel quantity indicators must read zero when the usable fuel quantity is zero.
- d) The total weight of unusable oil in the tanks and lines (25.66 kg for the Mystère Falcon 50, 33.39 kg for the Mystère Falcon 900 and 18,82 kg for the Falcon 900EX) must be included in the aircraft empty weight.
- e) The total weight of hydraulic fluid (48 kg) must be included in the aircraft empty weight.

Note 2:

- a) If a different type of fuel, or a mixture of fuels, is used, the engine computer must be adjusted (in order to adapt the computer to the density of the fuel used) so as to preserve the starting, acceleration and deceleration characteristics of the engine.
- b) The use of anti-ice additive conforming to Air 3652 or MIL.I.27686 D or E, (JP4 and JP8) or MIL.I.8570 (JP5) or equivalent, is approved in amounts up to 0.15 % by volume.
- c) The use of an anti-static additive is approved for use in the fuel provided concentration do not exceed
 - - 1 part per million for SHELL ASA 3.
 - - 3 parts per million for STADIS 450.SOHIO Biobor JF biocide additive, or equivalent, is approved for use in the fuel at a concentration not to exceed 270 parts per million.

Note 3:

- a) ALLIEDSIGNAL ENGINES Service Information letters give brand names of oils conforming to Specification EMS 53 110, Class B, Type 2.
- b) Brand names of oils approved for use in the Auxiliary Power Unit are listed in the Maintenance Manuals of the GTCP 36-100A and GTCP 36-150 (F) APU's.

Note 4: The cabin interior arrangements must be in compliance with the DASSAULT AVIATION general specifications for cabin interior completion, and are covered by the document DTM 802-30 for MYSTÈRE-FALCON 50 airplane and DTM 20-167 for MYSTÈRE-FALCON 900 and Falcon 900EX. These specifications mainly cover the gust and forced landing load factors.

Note 5: The MYSTÈRE-FALCON 50, MYSTÈRE-FALCON 900, FALCON 900EX and FALCON 900DX certified noise levels are specified in the Airplane Flight Manual of each model.

Note 6: On June 19th 1990 the name of manufacturer (AMD-BA: Avions Marcel Dassault - Breguet Aviation), has been changed. The new name, Dassault Aviation is now used on all documents and airplanes nameplates. However documents where old name still appear are valid.

Note 7: Production agreement N° P05 was delivered by DGAC on December 12, 1991 then JAR 21 G Production Agreement N° F.G.006 on December 22, 1997, then EASA production agreement

Section 2: Administration

n°FR.21G.0006 on September 24th, 2004.

Consequently:

- a) Mystère Falcon 50 airplanes S/N 226, and beyond, are produced in the scope of one of these agreements.
- b) Mystère Falcon 900 airplanes S/N 100 ; 106 ; 112 and beyond, are produced in the scope of one of these agreements.
- c) Falcon 900EX airplanes, all serial numbers, are produced in the scope of one of these agreements.

Note 8: An EASA approved change to the AFM, ALS and OSD elements can be released either through a full revision of the manual or through a Change Project (CP) number bearing the same reference as the related manual.

These EASA approved changes are either accepted under Article 13 of Annex 30 of the UK-EU Trade and Cooperation Agreement or subject to approval by Validation under Article 10 of Annex 30 of the UK-EU Trade and Cooperation Agreement, for use by UK operators.

The Type Certificate Holder should be contacted to verify the applicability of any AFM, ALS or OSD element within the UK.

Section 2: Administration

II. Acronyms and Abbreviations

Acronym / Abbreviation	Definition
AFM	Airplane Flight Manual
ALS	Airworthiness Limitations Section
APU	Auxiliary Power Unit
AWO	All Weather Operations
CAA	Civil Aviation Authority
CCD	Cabin Crew Data
CRI	Certification Review Item
CS	Certification Specification
EASA	European Union Aviation Safety Agency
ESF	Equivalent Safety Finding
FCD	Flight Crew Data
ICA	Instructions for Continued Airworthiness
ICAO	International Civil Aviation Organization
INT/POL	JAA Interim Policy
JAR	Joint Aviation Requirement
MAC	Mean Aerodynamic Chord
MCS	Maintenance Certifying Staff
MCSD	Maintenance Certifying Staff Data
MEL	Minimum Equipment List
MMEL	Master Minimum Equipment List
OSD	Operational Suitability Data
P/N	Part Number
RVSM	Reduced Vertical Separation Minima
SB	Service Bulletin
SC	Special Condition
SIMD	Simulator Data
S/N	Serial Number
TCDS	Type Certificate Data Sheet
TCDSN	Type Certificate Data Sheet for Noise

Section 3: Administration

III. Type Certificate Holder Record

TCH Record	Period
Dassault Aviation 9 Rond-Point des Champs Elysées 75008 Paris France	Present. No changes.

IV. Amendment Record

TCDS Issue No.	TCDS Issue Date	Changes	TC Issue and Date
1	23 Jan 2026	<p>The content of the initial issue of this UK CAA TCDS was taken from EASA TCDS No. EASA.A.062 Issue 7 dated 31 March 2020 which was the current EASA version on 31 December 2020 and therefore the version of the TCDS for the MF50/MF900/Falcon 900EX accepted by the UK under Article 15 of Annex 30 of the UK-EU Trade and Cooperation Agreement, except as listed below:</p> <ul style="list-style-type: none"> - Section 0.II Part 26 Compliance Information section added. - Section 1.VI Note 9, amended to clarify change applicability in the UK. 	Issue 1 23 Jan 2026

Section 3: Administration

Explanatory Note to TCDS UK.TC.A.00161

This Explanatory Note was created to make public non-proprietary data contained in selected UK specific Special Conditions, Deviations, or Equivalent Safety Findings that are part of the applicable Certification Basis as recorded in TCDS UK.TC.A.00161.

Only those UK Special Conditions, Deviations, or Equivalent Safety Findings raised on or after 01 January 2021 shall be included in this Explanatory Note.

Special Conditions

None

Deviations

None

Equivalent Safety Findings

None

Disclaimer – This Explanatory Note may not be exhaustive and it will be updated gradually along with the aircraft lifecycle.