

**Civil Aviation Authority  
United Kingdom**



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**TYPE-CERTIFICATE DATA SHEET**

**UK.TC.A.00160**

for

**Dassault Falcon 2000**

**Type Certificate Holder**  
Dassault Aviation

9 Rond Point des, Champs Elysees  
75008 Paris  
France

Model(s):  
Falcon 2000  
Falcon 2000EX

Issue: 01

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## Section 1: General

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## Section 1: General

### **Section 1      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.008 at Issue 8 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 2: General (All Models)

**Section 2 General (All Models)**

**1 Airworthiness Category**

Large Aeroplanes

**2 Performance Class**

A

**3 Certifying Authority**

European Union Aviation Safety Agency (EASA)

Konrad-Adenauer-Ufer 3

D-50668 Cologne

Germany

**4 Type Certificate Holder**

Dassault Aviation

9 Rond Point des Champs Elysees

75008 Paris

France

**5 Manufacturer**

Dassault Aviation

9 Rond Point des Champs Elysees

75008 Paris

France

**6 Reference Date for Determining Applicable Requirements**

30 November 1989

**7 State of Design Airworthiness Authority Type Certification Data Sheet No**

EASA.A.008

Section 3: Falcon 2000

**Section 3      Falcon 2000**

**I.      General**

**1.      Type/ Model/ Variant**

- a) Type: Dassault Falcon 2000
- b) Model: Falcon 2000

**2.      EASA Type Certification Application Date**

17 August 1989

**3.      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 2 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.

**4.      EASA Type Certification Date (JAA Recommendation)**

30 November 1994

**5.      UK CAA Type Validation Date**

Prior to 31 December 2020, dates of type certification are covered by EASA type certification, as per Section 4 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 Falcon 2000 UK CAA type validations have been completed since 01 January 2021.

**II.     Certification Basis**

- JAR 25 Change 13 effective on 05 October 1989
- JAR AWO Change 1

plus Dassault elect to comply to:

- JAR 25.1309 and associated ACJ and AMJ material as amended by Orange Paper 90/1, incorporated now in change 14 of May 27<sup>th</sup>, 1994.
- JAR 25.723 and associated ACJ and AMJ material as amended by Orange Paper 90/1, incorporated now in change 14 of May 27<sup>th</sup>, 1994.
- JAR 25.101, 25.105, 25.109, 25.113, 25.115, 25.735, 25X1591 and associated ACJ and AMJ material as amended by NPA 25B, D, G-244 issue of February 1993.
- JAR 25.AWO 202, 216, 221, 253, 281 and associated ACJ material as amended by NPA AWO-3, issue 2 of June 1993 (EtC K-01).
- JAR 25.AWO 131, 158, 321, 371 and associated ACJ material as amended by NPA AWO-4, issue 1 of March 1993 (EtC K-01).
- JAR AWO Subpart 4 (OP AWO 91/1) for HUD modification.

**1.      Special Conditions**

SC A-09      Functions and reliability testing

## Section 3: Falcon 2000

SC B-02	Accelerate-Stop distance and related performance matters
SC B-03	Automatic reserve Performance System
SC B-04	Stall and stall warning speeds and manoeuvre capability (NPA 25 B-215)
SC B-07	Steep approach landing capability
SC C-04	Discrete requirements (NPA 25 C-205)
SC C-06	Interaction of systems and structures
SC C-12	Carbon horizontal stabilizer – Certification basis
SC D-01	Landing Gear Warning (INT /POL/25/1)
SC D-03	Brake Wear Limits (INT /POL/25/6)
SC D-05	Resistance to the fire and its Terminology (NPA 25 D-181)
SC D-06	Doors (NPA 25 D-251)
SC D-10	Operation at 47,000 ft
SC D-1123	Fire containment containers (airplanes fitted with M-OPT0044 or M-OPT0176)
SC E-05	APU Categorization
SC F-05	Operation without Normal Electrical Power (NPA 25F-179) and Miscellaneous Electrical Requirement (NPA 25 D, F-191)
SC F-06	Protection against HIRF (INT /POL/25/2)
SC F-07	Lightning indirect effects (INT /POL/25/4)
SC F-18	E-GPWS airworthiness approval
SC F-19	G-CAS airworthiness approval
SC F-21	Electronic stand-by instrument system (MEGGITT)
SC F-22	ACAS II - TCAS Change 7

**2. Exemptions**

None

**3. Deviations**

DEV C-11	Personal injury criteria of dynamic testing of side-facing sofas deviates from JAR 25.785(d)
DEV F-15	Oxygen requirements Note : Compliance with JAR 25 Oxygen requirements is to be shown for each individual airplane in accordance with relevant national operational requirements

**4. Equivalent Safety Findings**

ESF D-07	Emergency exit sign used also as locator sign (cabin without divider) provides an equivalent Level of safety to JAR 25.811(d)(1)&(2)
ESF D-08	Emergency exit locator sign used also as marking sign (cabin with divider) provides an equivalent Level of safety to JAR 25.811(d)(1)&(3)
ESF D-09	Type III emergency exit handle lighting provides an equivalent Level of safety to JAR 25.811(e)(3)
ESF F-12	Oxygen masks in galley area provides an equivalent Level of safety to JAR 25.1447(c)(3)

## Section 3: Falcon 2000

D-GENE-03 Improved Flammability Standards for Thermal / Acoustic Insulation Materials Used in Large Aeroplanes provides an equivalent Level of Safety to JAR 25.853

### 5. Environmental Protection

#### Noise:

See TCDS-N no. UK.TC.A.00160.

#### Fuel Venting & Emissions:

ICAO Annex 16 Volume II, Part II, Chapter 2

### 6. Operational Suitability Data (OSD) Certification Basis

Reference date for the definition of the OSD requirements: 17 February 2014

#### OSD Specifications:

MMEL: JAR-MMEL/MEL Section 1, Subpart A&B, Amendment 1, effective on 01 August 2005

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

## III. Technical Characteristics and Operational Limitations

### 1. Type Design Definition

Definition of reference airplane by DASSAULT AVIATION documents 01-130 (DTM 32-2424/94) – Master Drawing Lists

### 2. Description

Twin jet, medium range, large aircraft category

### 3. Equipment

01-940 (DTM 38-2000/90) - Equipment List of the Basic Airplane

01-941 (DTM 38-0735/91) - Equipment List of Standard option and other options

### 4. Dimensions

Length	20.229 m (66 Ft 4.4 Ins)
Span	19.238 m (63 Ft 5 Ins)
Height	7.058 m (23 Ft 2Ins) 7.115 m with M1061
Gross wing area	49.00 m <sup>2</sup>

### 5. Engines

#### Model:

CFE 738-1-1B Turbofan engines (CFE Company) – See FAA TCDS E44NE

**Number:** 2

## Section 3: Falcon 2000

**ENGINE LIMITS:**

Maximum takeoff static thrust up to 37° C - Sea level condition (5 minutes): 5,937 lbs (2,641 daN)

Normal takeoff static thrust up to 30° C - Sea level condition (5 minutes): 5,918 lbs (2,632 daN)

Maximum continuous static thrust at 30° C - Sea level conditions: 5,613 lbs (2,497 daN)

**Note:** Refer to Airplane Flight Manual DTM 537 for engine operating instructions.**Maximum engine operating speed:**

Low pressure rotor (N1) @ Maximum and Normal TO	RPM: 9,400 (96.7%)
Low pressure rotor (N1) @ Maximum Continuous	RPM: 9,400 (96.7%)
High pressure rotor (N2) @ Maximum and Normal TO	RPM: 28,000 (106.0%)
High pressure rotor (N2) @ Maximum Continuous	RPM: 27,715 (104.9%)

**Maximum Interstage Turbine Temperature (T4.5)**

Maximum (APR) TO (5 minutes)	890°C
Normal TO (5 minutes)	864°C
Maximum Continuous	861°C
Ground start	815°C
Air start	864°C
Windmilling max temperature (10 seconds)	970°C
Windmilling max temperature (2 seconds)	1000°C

**Oil pressure limits**

Normal Operating range	60 to 85 psig
Minimum (At idle)	30 psig
Maximum Transient (3 minutes max)	85 to 100 psig
Cold start: Oil temperature below 0°C (2.5 minutes max)	135 psig

**Oil temperature limits**

Maximum	138°C
Minimum	30 °C
Maximum Transient (3 minutes max)	138 to 155°C
Cold Start	- 40°C

**Fuel Pump inlet pressure**

Maximum	50 psig
Minimum	5 psi above True Vapour Pressure

## Section 3: Falcon 2000

**6. Auxiliary Power Unit (APU)**

Model: ALLIED SIGNAL / HONEYWELL ENGINES COMPANY GTCP 36-150 (F2M)

APU Limits:

Maximum Operating Altitude: 35,000ft

Maximum Starting Altitude: 35,000ft

EGT Starting limits: 974°C

EGT Stabilized limits: 746°C

Maximum N1 Speed: 110%

**7. Propellers**

N/A

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

(See AFM DTM 537)

**Fuel conforming to specifications:**

See AFM DTM 537 page 1-120-1 or page 1-120A-1 for A/C with M1903 or SBF2000-202

**Lubricating system conforming to specifications:**

See AFM DTM 537 page 1-130-1

**9. Fluid Capacities****9.1 Fuel**

Without Modification M3072				
	Litres	Kg (*)	US gallons	Lbs(*)
<b>USABLE FUEL</b>				
- <b>Left side</b>	3428	2753	906	6070
- <b>Right side</b>	3437	2760	908	6085
<b>TOTAL USABLE</b>	<b>6865</b>	<b>5513</b>	<b>1814</b>	<b>12155</b>
<b>UNUSABLE FUEL</b>				
- <b>Drainable</b>	30	24	8	53
- <b>Undrainable</b>	30	24	8	53
<b>TOTAL UNUSABLE</b>	<b>60</b>	<b>48</b>	<b>16</b>	<b>106</b>

## Section 3: Falcon 2000

With Modification M3072 (SB 358)				
	Litres	Kg (*)	US gallons	Lbs(*)
<b>USABLE FUEL</b>				
- <b>Left side</b>	3413	2740	902	6042
- <b>Right side</b>	3421	2747	904	6057
<b>TOTAL USABLE</b>	<b>6834</b>	<b>5487</b>	<b>1806</b>	<b>12099</b>
<b>UNUSABLE FUEL</b>				
- <b>Drainable</b>	30	24	8	53
- <b>Undrainable</b>	30	24	8	53
<b>TOTAL UNUSABLE</b>	<b>60</b>	<b>48</b>	<b>16</b>	<b>106</b>

(\*) Density has been assumed to be 0.803 kg/l (6.7 lb/US gal)

## 9.2 Oil

Engine lubrication system capacity

	Litres	US gallons
<b>LEFT HAND SIDE</b>		
- Max oil level	4.73	1.25
- Min oil level	3.31	0.88
- Min operating oil level	2.65	0.70
<b>TOTAL USABLE</b>	<b>2.08</b>	<b>0.55</b>
<b>LEFT HAND SIDE</b>		
- Max oil level	4.73	1.25
- Min oil level	3.31	0.88
- Min operating oil level	2.56	0.68
<b>TOTAL USABLE</b>	<b>2.18</b>	<b>0.58</b>

## 10. Hydraulics

Only hydraulic fluid conforming to AIR 3520 or MIL-H-5606 specifications (Nato codes H515 or H520) must be used.

## Section 3: Falcon 2000

**11. Flight Envelope**

Maximum Operating Altitude: 47,000 Feet

**11.1 Airspeed Limits**

(unless otherwise specified, speeds are indicated airspeeds)

VMO	(Variable):	350kt/370kt
MMO	(Variable):	0.87/0.85
VLO/MLO	(Maximum landing gear operating speed):	190kt/0.70
VMCG	(Minimum control speed on the ground):	98kt
VLE/ MLE	(Maximum landing gear extended speed):	245kt/0.75
VFE	(High lift devices operating or extended limit speeds)	
	- Slat extended + flaps 10°	200kt
	- Slat extended + flaps 20	160kt
	- Slat extended + flaps 40°	160kt

**11.1 All Weather Capability**

Cat .II, Cat III when fitted with M58C or M58D (HUD)

CAT II requirements provided the airplane is operated in accordance with Airplane Flight Manual, Limitations Section, page 1-160-1 and Annex 1 (Autopilot Coupled Approach to Category II Performance Requirements)

CAT III requirements provided the airplane is operated in accordance with Airplane Flight Manual, Limitations Section, page 1-160-1 and Supplement 11 or 18.

**12. Operating Limitations****12.1 Approved Operations**

The Falcon 2000 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 :

Note 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

## Section 3: Falcon 2000

APPROVED OPERATIONS	Configuration Requirements
Automatic Category II approaches	basic
Manual Cat. II / III approach with Flight Dynamics HGS or Rockwell-Collins HGS 2850	cf. AFM SUP11
SSR mode S Enhanced Surveillance	A/C with M2624 or M2632
RVSM	A/C with M1251
Extended flight over water and uninhabited terrain	basic
Polar operations (limited 75° North / 75° South)	cf. AFM SUP21A/ 22 / 22A / 23 / 23A / 23B / 23C / 23D / 23E / 23F / 23G
Polar operations (limited 80° North / 80° South)	cf. AFM SUP24 / 24A / 24B / 24C / 24D / 24E / 24F
Contaminated runways operation	basic
Steep approach landing up to 5.5/6.0/6.65 degrees	basic
Operations with landing gear down	basic
IFR OCEANIC / RNP 10	basic
NAT-MNPS	cf. AFM SUP21 / 21A / 21B / 21C / 21D / 22 / 22A / 22B / 22C / 22D / 22E / 23 / 23A / 23B / 23C / 23D / 23E / 23F / 23G / 24 / 24A / 24B / 24C / 24D / 24E / 24F
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

**13.2 Other Limitations****None**

## Section 3: Falcon 2000

### 13. Maximum Certified Masses

#### Airplane without modifications M57 and M59

- Maximum ramp and taxi 16329 Kg (36000 lbs)
- Maximum takeoff 16238 Kg (35800 lbs)
- Maximum landing 14968 Kg (33000 lbs)
- Maximum Zero fuel 13000 Kg (28660 lbs)
- Minimum flight

#### Airplane with modification M57

- Maximum ramp and taxi 16647 Kg (36700 lbs)
- Maximum takeoff 16556 Kg (36500 lbs)
- Maximum landing 14968 Kg (33000 lbs)
- Maximum Zero fuel 13000 Kg (28660 lbs)
- Minimum flight

#### Airplane with modification M57 and M1190

- Maximum ramp and taxi 16647 Kg (36700 lbs)
- Maximum takeoff 16556 Kg (36500 lbs)
- Maximum landing 15648 Kg (34500 lbs)
- Maximum Zero fuel 13000 Kg (28660 lbs)
- Minimum flight

### 14. Centre of Gravity Range

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

### 15. Datum

Datum is 25% of mean aerodynamic chord which coincides with fuselage station FS + 400.43 in (10,171mm) (fuselage station reference +0 is the forward end of the airplane nose cone).

### 16. Mean Aerodynamic Chord (MAC)

Length	113.69 in (2,887.7mm)
Zero percent MAC is at FS	+ 372.01 in (9,449 mm)

### 17. Levelling Means

Standard bubble type level to be installed on the passenger seat tracks.

### 18. Minimum Flight Crew

2 pilots

## Section 3: Falcon 2000

**19. Exits**

	No	Type	Size
1 Passenger door	FGFB295	I	0.800*1.72m (31.50*67.72in)
1 Emergency exit	F2MA296	III	0.534*0.916m (21.02*36.06in)

**20. Maximum Seating Capacity**

19 seats in the passenger cabin, as limited by emergency exits.

**Note:**

Cabin Interior and Seating Configurations must be approved.

**21. Baggage/ Cargo Compartment**

Class	B
Volume	3.8 m <sup>3</sup>

Max. allowable Load:

Baggage compartment	1,600 lbs (725 kg) not to exceed 61.4 lb/sq ft (300 kg/m <sup>2</sup> )
LH/RH coat compartment	not to exceed 81.9 lb/sq ft (400 kg/m <sup>2</sup> )
Payload:	5,990 lb (2,717 Kg)

**22. Wheels and Tyres**

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

Main wheel tyres are 26\*6.6-14"

Nose wheel tyres are 14.5\*5.5-6"

**23. ETOPS**

None.

**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.008 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: Document No. DTM 537 **NOTE 1**

**2. Instructions for Continued Airworthiness and Airworthiness Limitations**

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

### Section 3: Falcon 2000

- Airworthiness Limitation Section (Chapter 5-40, reference: DGT113876 <sup>NOTE 1)</sup>)
- Maintenance Planning Document (Chapter 5):
  - o Reference: DGT 125292
- Airplane Maintenance Manual
- Fault Isolation Manual
- Illustrated Parts Catalogue (part list only)
- Structural Repair Manual (Part 1)
- Wiring Diagram Manual
- Service Letters and Service Bulletins
- Service Bulletins are listed in Service Bulletin index

#### Various statements

The Falcon 2000 is compliant to:

- CVR (EU-OPS1) requirements (2 hours) provided the modification M1514 is applied
- EGPWS (EU-OPS1) requirements (§665) provided the system is installed and the airplane is operated in accordance with associated AFM supplements.
- TCAS II change 7 (EU-OPS1) requirements (§668) provided the modification M1996 (TCAS 4000) is applied and the airplane is operated in accordance with Airplane Flight Manual, Supplement 20.
- FM immunity for navigation system VOR/ILS against ICAO Annex 10, Vol I, §3.1.4 and §3.3.8 provided modification M651 is applied
- FM immunity for communication system VHF against ICAO Annex 10, Vol III, §2.3.3 provided modification M1074 is applied

### 3. Weight and Balance Manual (WBM)

None

### V. Operational Suitability Data (OSD)

The Operational Suitability Data elements listed below are approved by the European Union Aviation Safety Agency under EASA Type Certificate EASA.A.008 in accordance with Commission Regulation (EU) 748/2012 as amended.

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

Operational Suitability Manual: Master Minimum Equipment List, document ref. DTM540 revision 8, dated 07 January 2015, 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

Operational Suitability Manual - Flight Crew, document ref. DGT148651, 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.

Pilot Type Rating: The license endorsement for the Falcon 2000 is "**Falcon 2000 / 2000EX**"

Section 3: Falcon 2000

**3. Cabin Crew Data**

Not Applicable

**4. Simulator Data**

Not Available

**5. Maintenance Certifying Staff Data**

Not Available

## Section 4: Falcon 2000EX

### **Section 4      Falcon 2000EX**

#### **I.      General**

##### **1.      Type/ Model/ Variant**

- a) Type:      Dassault Falcon 2000
- b) Model:      Falcon 2000EX

##### **2.      EASA Type Certification Application Date**

25 October 1999

##### **3.      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 2 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.

##### **4.      EASA Type Certification Date (JAA Recommendation)**

07 March 2003

##### **5.      UK CAA Type Validation Date**

Prior to 31 December 2020, dates of type certification are covered by EASA type certification, as per Section 4 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 Falcon 2000EX UK CAA type validations have been completed since 01 January 2021.

#### **II.     Certification Basis**

JAR 25 Change 14 plus Orange Paper 25/96/1 effective on 19 April 1996

Except the following JAR 25 paragraphs which remain at Change 13

- **Subpart D – Design and Construction :**  
25.725, 25.727, 25.731 to 25X799, 25.803 to 25.859, 25.871, 25.875
- **Subpart F – Equipment**  
25.1303, 25.1323 to 25.1335, 25.1351 to 25.1421, 25.1433 to 25X1499
- **Subpart G – Operating limitations and information**  
25.1515, 25X1516, 25.1523, 25X1524, 25.1525, 25.1529, 25.1531, 25.1547, 25.1561
- **Subpart J – Gas turbine auxiliary power unit installations**  
All paragraphs

plus Dassault elect to comply to JAR 25 Change 15 for the following paragraphs

- 25.101(i), 25.105(c), 25.109, 25.113(a)(b)(c), 25.115, 25.735(f)(h), 25.X1591

JAR AWO Change 1

## Section 4: Falcon 2000EX

**1. Special Conditions**

SC A-109	Functions and reliability testing JAR 21.35 A.N.D.R.
SC B-103	Automatic reserve Performance System
SC B-04	Stall and stall warning speeds and manoeuvre capability (NPA 25B-215)
SC B-107	Steep approach landing capability
SC C-06	Interaction of systems and structures 5NPA 25C-199)
SC C-12	Carbon horizontal stabilizer – Certification basis
SC C-107	Fuel tank crashworthiness (INT / POL/25/9)
SC C-110	Yawing manoeuvre (INT / POL /25/8)
SC D-1123	Fire containment containers (airplanes fitted with M-OPT0044 or M-OPT0176)
SC D-05	Resistance to the fire and its Terminology (NPA 25D-181)
SC D-06	Doors (NPA 25D-251)
SC D-10	Operation at 47,000 ft
SC D-115	Wheels, brakes and braking system (NPA 25D-291)
SC E-05	APU Categorization
SC E-09	Thrust reverser certification policy
SC F-05	Operation without Normal Electrical Power (NPA 25D, F-179) and Miscellaneous Electrical Requirement (NPA 25 D, F-191)
SC F-106	Protection against HIRF (INT /POL/25/2 Issue 2)
SC F-18	E-GPWS airworthiness approval
SC F-21	Electronic stand-by instrument system (MEGGITT)
SC K-01	All weather operations NPA AWO-3 and -4

**2. Exemptions**

None

**3. Deviations**

DEV C-11	Personal injury criteria of dynamic testing of side-facing sofas deviates from JAR 25.785(d)
DEV F-15	Oxygen requirements Note : Compliance with JAR 25 Oxygen requirements is to be shown for each individual airplane in accordance with relevant national operational requirements

**4. Equivalent Safety Findings**

ESF D-07	Emergency exit sign used also as locator sign (cabin without divider) provides an equivalent Level of safety to JAR 25.811(d)(1)&(2)
ESF D-08	Emergency exit locator sign used also as marking sign (cabin with divider) provides an equivalent Level of safety to JAR 25.811(d)(1)&(3)
ESF D-09	Type III emergency exit handle lighting provides an equivalent Level of safety to JAR 25.811(e)(3)
ESF E-110	Engine fire protection in designated fire zone provides an equivalent Level of safety to JAR 25.865, 25.1181, 25.1195, 25.1203
ESF E-112	Turbine engine tailpipe fire detection provides an equivalent Level of safety to JAR

## Section 4: Falcon 2000EX

	25.1203(a), 25.1181(a)
ESF F-12	Oxygen masks in galley area provides an equivalent Level of safety to JAR 25.1447(c)(3)
ESF G-101	Contaminated Runway Performance Information provides an equivalent Level of safety to JAR 25X1591
D-GENE-03	Improved Flammability Standards for Thermal / Acoustic Insulation Materials Used in Large Aeroplanes provides an equivalent Level of Safety to JAR 25.853

### 5. Environmental Protection

#### Noise:

See TCDS-N no. UK.TC.A.00160.

#### Fuel Venting & Emissions:

ICAO Annex 16 Volume II, Part II, Chapter 2

### 6. Operational Suitability Data (OSD) Certification Basis

Reference date for the definition of the OSD requirements: 17 February 2014

#### OSD Specifications:

**MMEL:** JAR-MMEL/MEL Section 1 Subpart A&B, Amendment 1, effective on 01 August 2005

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

#### *Special Conditions*

**MCSD:** SC MCS-01 Certification basis for OSD-MCS

## III. Technical Characteristics and Operational Limitations

### 1. Type Design Definition

Definition of reference airplane by DASSAULT AVIATION documents M1802-01-130 (DGT-F/NAV89793) – Master Drawing Lists

Definition of Falcon 2000EX results of the addition of Falcon 2000 definition plus application of M1802, M1803, M1804, M1805, M1820, M1838 and M2233.

From aircraft s/n 2, the M1826 is applied with impact on fuel capacities (see III.9) and on maximum weights (see III.13).

### 2. Description

Twin jet, Medium Range, Large Aircraft category

### 3. Equipment

M1802-01-940 (DGT-DTF/NAV81711) - Equipment List - Basic Aircraft

## Section 4: Falcon 2000EX

**4. Dimensions**

Length	20.228 m (66 Ft 4.4 Ins)
Span	19.238 m (63 Ft 5 Ins)
Height	7.058 m (23 Ft 2Ins) 7.115 m with M1061
Gross wing area	49.00 m <sup>2</sup>

**5. Engines**

**Model:** PRATT & WHITNEY Canada PW308C Turbofan engines (see TCDS EASA.IM.E.057)

**Number:** 2

**ENGINE LIMITS****Thrust Ratings**

PW 308C ENGINE (UNINSTALLED, SEA LEVEL, ISA)

- Take-off 6,998 lb (3,114 daN)
- Maximum continuous 6,998 lb (3,114 daN)

The take-off thrust rating is time limited to 5 minutes.

In case one engine inoperative, take-off thrust rating can be extended to 10 minutes.(\*)

**Thrust Settings**

The engine low pressure rotor speed N1 is used as the thrust setting parameter.

The take-off and maximum continuous thrust as defined in AFM section 5-050-20 must be based on the N1 values given in AFM sections 5-400 and 5-450.

**Rotor Speed Limits:**

CONDITION OF USE	N1	N2
Normal Take-off (5 minutes max.)	102.5 %	102 %
Maximum Take-off (5 minutes max.)	102.5 %	102 %
Maximum continuous	102.5 %	102 %
Transient (20 seconds)	103.5 %	103 %
	100 % N1 = 10,400 RPM	
	100 % N2 = 26,780 RPM	

**Engine Vibration Limits**

Overall 0.96 in/sec average

## Section 4: Falcon 2000EX

**Interstage Turbine Temperature (ITT) Limits**

CONDITION OF USE	°C	
Ground start	950°C	
Airstart	950°C	
Restart max temperature:		
- Airstart	500°C	
- Groundstart	340°C	
Max. take-off (APR) transient	905°C	(2 minutes max.)
Max. take-off (APR)	895°C	(5 minutes max)
Max. take-off (APR) in case of OEI	875°C	(10 minutes max) (*)
Take-off transient	890°C	(45 seconds max. then ITT must decrease linearly down to below 875°C within 3 min)
Normal take-off	875°C	(5 minutes max.)
Max. continuous	860°C	
Flight transient	890°C	(20 seconds max)
	875°C	(5 minutes max)

(\*) when M3242 and M3453 are applied on the aircraft

**Oil Pressure limits**

Operating range	36 to 100 psi	
Transient:	10 to 220 psi	(90 sec. max)
	0 to 220 psi	(20 sec. max)
Minimum (at IDLE)	20 psi	
Cold start: during starting	240 psi	

**Oil Temperature Limits**

Maximum	135°C
Minimum for take-off	27°C
Minimum in flight	16°C
Transient: for 90 sec.	143°C
Cold start	-40°C

**6. Auxiliary Power Unit**

Model: ALLIED SIGNAL/ HONEYWELL ENGINES COMPANY - GTCP 36-150 (F2M)

**APU Limits**

Maximum Operating Altitude	35,000ft
Maximum Starting Altitude:	35,000ft
EGT Starting limits:	974°C
EGT Stabilized limits:	746°C
Maximum N1 Speed:	110%

## Section 4: Falcon 2000EX

**7. Propellers**

N/A

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

(See AFM DGT84278)

**Fuel conforming to specifications:**

See AFM DGT84278 page 1-120-1

**Lubricating system conforming to specifications:**

See AFM DGT84278 page 1-130-1

**9. Fluid Capacities****9.1 Fuel**

## Fuel Tank Capacity

Without Modification M1826				
	Litres	Kg (*)	US gallons	Lbs(*)
<b>USABLE FUEL</b>				
- Left wing plus half centre box	3450	2770	942.5	6105
- Right wing plus half centre box	3450	2770	942.5	6105
- Rear tank	922	740	251	1630
- Front tank	1245	1000	339	2205
	<b>9067</b>	<b>7280</b>	<b>2470</b>	<b>16045</b>
<b>TOTAL USABLE</b>				
<b>UNUSABLE FUEL</b>				
- Drainable	50	40	13	88
- Undrainable	41	33	11	72
	<b>91</b>	<b>73</b>	<b>24</b>	<b>160</b>

## Section 4: Falcon 2000EX

With Modification M1826 and without M3072				
	Litres	Kg (*)	US gallons	Lbs(*)
<b>USABLE FUEL</b>				
- Left wing plus half centre box	3441	2763	909	6092
- Right wing plus half centre box	3452	2772	912	6112
- Rear tank	1108	890	293	1962
- Front tank	1449	1163	383	2564
<b>TOTAL USABLE</b>	<b>9450</b>	<b>7588</b>	<b>2497</b>	<b>16730</b>
<b>UNUSABLE FUEL</b>				
- <b>Drainable</b>	50	40	13	88
- <b>Undrainable</b>	41	33	11	72
<b>TOTAL UNUSABLE</b>	<b>91</b>	<b>73</b>	<b>24</b>	<b>160</b>

With Modification M1826 , M3072 (SB171)				
	Litres	Kg (*)	US gallons	Lbs(*)
<b>USABLE FUEL</b>				
- Left wing plus half centre box	3425	2750	905	6064
- Right wing plus half centre box	3436	2759	908	6084
- Rear tank	1108	890	293	1962
- Front tank	1449	1163	383	2564
<b>TOTAL USABLE</b>	<b>9419</b>	<b>7562</b>	<b>2489</b>	<b>16674</b>
<b>UNUSABLE FUEL</b>				
- <b>Drainable</b>	50	40	13	88
- <b>Undrainable</b>	41	33	11	72
<b>TOTAL UNUSABLE</b>	<b>91</b>	<b>73</b>	<b>24</b>	<b>160</b>

(\*) Density has been assumed to be 0.803 kg/l (6.7 lb/US gal)

## 9.2 Oil

Engine Oil capacity

## Section 4: Falcon 2000EX

OIL TANK CAPACITY - PW308C - NOMINAL VOLUMES		
	LEFT ENGINE 2 DEG. NOSE-UP 7 DEG. STARBOARD ROLL	RIGHT ENGINE 2 DEG. NOSE-UP 7 DEG. PORT ROLL
VOLUME TO OVERFLOW	9.2 litres	10.5 litres
VOLUME TO MAX. MARKING ON SIGHT GLASS	8.7 litres	9.7 litres
VOLUME TO MIN. MARKING ON SIGHT GLASS	7.4 litres	8.8 litres
MINIMUM OIL QUANTITY TO ALL NORMAL OPERATION	6.4 litres	7.6 litres

OIL TANK TOTAL VOLUME 11.3 Litres

- 1) Quoted volumes are for nominal installation and do not consider any ground inclination
- 2) Quoted volumes includes .3 litres to fill the oil pump area.
- 3) Quoted volumes are nominal values

**10. Hydraulics**

Only hydraulic fluid conforming to AIR 3520 or MIL-H-5606 specifications (Nato codes H515 or H520) must be used

**11. Flight Envelope**

Maximum Operating Altitude: 47,000 Feet

**11.1 Airspeed Limits**

VMO	(Variable):	350kt/370kt
MMO	(Variable):	0.862/0.85
VLO/MLO	(Maximum landing gear operating speed)	190kt/0.70
VMCG	(Minimum control speed on the ground)	98KIAS
VLE/ MLE	(Maximum landing gear extended speed )	245kt/0.75
VFE	(High lift devices operating or extended limit speeds)	
	• Slat extended + flaps 10°	200kt
	• Slat extended + flaps 20°	190kt
	• Slat extended + flaps 40°	180kt

**11.1 All Weather Capability**

CAT II requirements provided the airplane is operated in accordance with Airplane Flight Manual, Limitations Section, page 1-160-1 and Annex 1 (Autopilot Coupled Approach to Category II Performance Requirements)

**11.2 Environmental Flight Envelope**

Refer to accepted/approved Airplane Flight Manual

## Section 4: Falcon 2000EX

**12. Operating Limitations****12.1 Approved Operations**

The Falcon 2000EX 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 :

Note 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 Flight Dynamics HGS or Rockwell-Collins HGS 4860	cf. AFM SUP07
SSR mode S Enhanced Surveillance	A/C with M2624
RVSM	M1251 applied on basic A/C
Extended flight over water and uninhabited terrain	Basic
Polar operations (limited 80° North / 80° South)	cf. AFM SUP03
Contaminated runways operation	Basic
Steep approach landing up to 5.5/6.0/6.65 degrees	Basic
Operations with landing gear down	Basic
ADS-B Out in NRA	Basic
IFR OCEANIC / RNP 10	Basic
NAT-MNPS	cf. AFM SUP03
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

**12.2 Other Limitations**

Refer to accepted/approved Airplane Flight Manual

## Section 4: Falcon 2000EX

**13. Maximum Certified Masses**Without M1826 applied:

Taxi and ramp	40900 lb (18552 kg)
Take-off	40700 lb (18461 kg)
Landing	38300 lb (17373 kg)
Zero fuel	29700 lb (13472 kg)

With M1826 applied:

Taxi and ramp	41500 lb (18824 kg)
Take-off	41300 lb (18734 kg)
Landing	39300 lb (17826 kg)
Zero fuel	29700 lb (13472 kg)

With M1826 and M1842 applied:

Taxi and ramp	42400 lb (19233 kg)
Take-off	42200 lb (19142 kg)
Landing	39300 lb (17826 kg)
Zero fuel	29700 lb (13472 kg)

With M1826, M1842 and M3622 (or SB329) applied:

Taxi and ramp	43000 lb (19504 kg)
Take-off	42800 lb (19414 kg)
Landing	39300 lb (17826 kg)
Zero fuel	29700 lb (13472 kg)

**14. Centre of Gravity Range**

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

**15. Datum**

Datum is 25% of mean aerodynamic chord which coincides with fuselage station FS + 400.43 in (10,171mm) (fuselage station reference +0 is the forward end of the airplane nose cone).

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

Length 113.69 in (2,887.7mm)

Zero percent MAC is at FS + 372.01 in (9,449 mm)

## Section 4: Falcon 2000EX

**17. Levelling Means**

Standard bubble type level to be installed on the passenger seat tracks.

**18. Minimum Flight Crew**

2 Pilots

**19. Exits**

	No	Type	Size
1 Passenger door	FGFB295	I	0.800*1.72m (31.50*67.72in)
1 Emergency exit	F2MA296	III	0.534*0.916m (21.02*36.06in)

**20. Maximum Passenger Seating Capacity**

19 seats in the passenger cabin, as limited by emergency exits.

**21. Baggage/ Cargo Compartment**

Class	B
Volume	3.7 m <sup>3</sup>

Max. allowable Load:

- Baggage compartment 1,600 lbs (725 kg) not to exceed 61.4 lb/sq ft (300 kg/m<sup>2</sup>)
- LH/RH coat compartment not to exceed 81.9 lb/sq ft (400 kg/m<sup>2</sup>)
- Payload: 5,990 lb (2,717 Kg)

**22. Wheels and Tyres**

This aircraft is equipped with wheels, brakes and tubeless and radial tyres

- Main wheel tyres are 26\*6.6-14"
- Nose wheel tyres are 14.5\*5.5-6"

**23. ETOPS**

None.

**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.008 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.

## Section 4: Falcon 2000EX

### 1. Airplane Flight Manual (AFM)

Airplane Flight Manual: Document No. DGT84278 <sup>NOTE 1</sup>

### 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: DGT113877 <sup>NOTE 1</sup>)
- Maintenance Planning Document (Chapter 5):
  - o Reference: DGT 125293
- Airplane Maintenance Manual
- Fault Isolation Manual
- Illustrated Parts Catalogue (part list only)
- Structural Repair Manual (Part 1)
- Wiring Diagram Manual

#### Service Letters and Service Bulletins

Service Bulletins are listed in Service Bulletin index

#### Various statements

The Falcon 2000EX is compliant to:

- CVR (EU-OPS1) requirements (2 hours) provided the modification M1514 is applied
- EGPWS (EU-OPS 1 § 665) provided the modification M1755 is applied and the airplane is operated in accordance with the associated AFM Supplements.
- TCAS II change 7 (EU OPS 1 § 668) if the airplane is operated in accordance with the associated Airplane Flight Manual Supplements.
- FM immunity for navigation system VOR/ILS against ICAO Annex 10, Vol I, §3.1.4 and §3.3.8
- FM immunity for communication system VHF against ICAO Annex 10, Vol III, §2.3.3

### 3. Weight and Balance Manual (WBM)

None

## V. Operational Suitability Data (OSD)

The Operational Suitability Data elements listed below are approved by the European Union Aviation Safety Agency under EASA Type Certificate EASA.A.008 in accordance with Commission Regulation (EU) 748/2012 as amended.

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

Operational Suitability Manual: Master Minimum Equipment List, document ref. DGT 88391, revision 3, dated 31 October 2012, or later accepted or approved revisions. The Type Certificate Holder should be contacted to verify the applicability of any MMEL revision within the UK.

## Section 4: Falcon 2000EX

### 2. Flight Crew Data

Operational Suitability Manual - Flight Crew, document ref. DGT148651, 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.

Pilot Type Rating: The license endorsement for the Falcon 2000EX is "**Falcon 2000 / 2000EX**"

### 3. Cabin Crew Data

Not Applicable

### 4. Simulator Data

Not Available

### 5. Maintenance Certifying Staff Data

Operational Suitability Manual – Maintenance Certifying Staff, document ref DGT135364, revision original, dated 30 October 2015, or later accepted or approved revisions. The Type Certificate Holder should be contacted to verify the applicability of any MCSD revision within the UK.

The Maintenance Certifying Staff Type Rating for Falcon 2000EX is: **Falcon 2000EX (PWC PW308)**

## Section 5: Falcon 2000EX Commercially Designated Aircraft Variants

### **Section 5      Falcon 2000EX Commercially Designated Aircraft Variants**

#### **Variant 1. Falcon 2000EX EASy (F2000EX EASy) Version Aeroplanes**

##### **I. General**

F2000EX EASy designation does not correspond to new model designation. This is only a commercial designation for airplanes on which major modifications (M1691, M1745 and M1504) have been applied.

##### **1. EASA Type Certification Application Date**

08 November 1999

##### **2. 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 1 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.

##### **3. EASA Type Certification Date (JAA Recommendation)**

17 June 2004

##### **4. UK CAA Type Validation Date**

Prior to 31 December 2020, dates of type certification are covered by EASA type certification, as per Section 3 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 Falcon 2000EX EASy UK CAA type validations have been completed since 01 January 2021.

##### **II. Certification Basis**

The airworthiness requirements applicable to the Falcon 2000EX EASy are the ones applicable to the Falcon 2000EX amended by the following:

*Airworthiness specifications:*

JAR 25 change 14 plus Orange Paper 5/96/1 paragraphs

**Subpart D - Design and construction:**

JAR 25.771 (a) (c) (e)	Pilot compartment
JAR 25.773(a)(d)	Pilot compartment view
JAR 25.777 (a)(b)(c)(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 25.841(b)(5)(b)(6)	Pressurised cabins

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**Subpart F – Equipment**

JAR 25.1303	Flight and Navigation Instruments
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 25.1351	Electrical systems and equipment - General
JAR 25.1353	Electrical equipment and installations
JAR 25.1355	Distribution system
JAR 25.1357	Circuit protective devices
JAR 25X1360	Precautions against injury
JAR 25X1363	Electrical system tests
JAR 25.1381	Instrument lights
JAR 25.1419 (c)	Ice protection
JAR 25.1435 (a) (2)	Hydraulic systems
JAR 25.1457	Cockpit voice recorders
JAR 25.1459	Flight recorders

**Subpart G - Operating limitations and information**

JAR 25.1523	Minimum flight crew
JAR 25X1524	Systems and equipment limitations
JAR 25.1529	Instructions for continued airworthiness
JAR 25.1547	Magnetic direction indicator

**Subpart J – Gas turbine Auxiliary Power Unit installations**

JAR 25A1141(a)(d)	All APUs – APU Controls : General
JAR 25A1305	All APUs - APU Instruments
JAR 25A1549	All APUs – APU instruments
JAR 25A1551	All APUs – Oil quantity indicator
JAR 25B1305	Essential APUs - APU Instruments

Plus

**JAR AWO change 2**

JAR AWO 201	General
JAR AWO 202	Go-around rate
JAR AWO 204(a)(b)	Control of flight path

## Section 5: Falcon 2000EX Commercially Designated Aircraft Variants

JAR AWO 206	Control of speed
JAR AWO 207(a)(b)	Manual control
JAR AWO 208	Oscillations and deviations
JAR AWO 215	Decision height recognition
JAR AWO 216	Go-around
JAR AWO 221(a)(b)(c)(d)(e)(f)(g)(h)(i)	Installed equipment
JAR AWO 222	Minimum equipment
JAR AWO 231	Flight path and speed control
JAR AWO 233	Decision height
JAR AWO 234	Localizer and glide path receivers
JAR AWO 235	Radio altimeter
JAR AWO 236(a)(b)(c)	Excess deviation alerts
JAR AWO 251(a)(b)(c)	Mode selection and switching
JAR AWO 252(a)(b)	Presentation of information to the crew
JAR AWO 253(a)(b)	Audible warning of automatic pilot disengagement
JAR AWO 262	automatic pilots
JAR AWO 263(a)(b)(c)	Flight director system
JAR AWO 268	Radio altimeter
JAR AWO 269	Excess-deviation alerts
JAR AWO 281	General

**1. Special Conditions**

SC D-1120	Cabin Stretcher (airplanes fitted with modification M3416)
SC F-1106	Protection against HIRF
SC F-1123	Requirement for Human Factors
SC F-1130	Micro IRS (MIRS)

**2. Exemptions**

None

**3. Deviations**

DEV D-1121	Firm Handhold (airplanes fitted with modification M3416)
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**4. Equivalent Safety Findings**

ESF D-1115	Lift and Drag device Indicator provides an equivalent Level of safety to JAR 25.699(b)
ESF D-1124	Table Obstruction to Type III Emergency Exit (airplanes fitted with M4400-013) provides an equivalent Level of safety to JAR 25.813(c) (2)
ESF D-1126	Seats Obstruction to Type III Emergency Exits (airplanes fitted with M-OPT0119) provides and equivalent Level of safety to JAR 25.813(c)(2)

## Section 5: Falcon 2000EX Commercially Designated Aircraft Variants

ESF D-1127	Table Obstruction to Type III Emergency Exits (airplanes fitted with M-OPT0055) provides an equivalent Level of safety to JAR 25.813(c)(2)
ESF E-1103	Powerplant instruments – Colour markings provides an equivalent Level of safety to JAR 25.1549
ESF F-1136	Honeywell PRIMUS EPIC – Integrated Modular Avionics System provides an equivalent Level of safety to JAR 25.1357(e), 25.1309

### 5. Environmental Protection

#### Noise:

See TCDS-N no. UK.TC.A.00160.

#### Fuel Venting & Emissions:

ICAO Annex 16 Volume II, Part II, Chapter 2

### 6. Operational Suitability Data (OSD) Certification Basis

Reference date for the definition of the OSD requirements: 17 February 2014

#### OSD specifications:

**MMEL:** JAR-MMEL/MEL Section 1 Subpart A&B, Amendment 1, effective on 01 August 2005  
**FCD:** CS-FCD Initial Issue, effective on 31 January 2014

#### Special Conditions

**MCSD:** SC MCSD-01 Certification basis for OSD-MCS

## III. Technical Characteristics and Operational Limitations

F2000EX EASy technical characteristics and operational limitations are identical to Falcon 2000EX airplane except for the points hereafter.

### 1. Type Design Definition

F2000EX EASy airplanes have received modifications:

- M1691 "Enhanced Avionics System For F2000EX"
- M1745 "Oxygen system electro-pneumatic altimetric controller"
- M1504 "All falcon Common pressurization system" on the production assembly line starting with s/n 6, s/n 28 and subsequent.

### 2. Equipment

M1691-01-101 (DGT-DTF/NAV 96502) - Equipment list for F2000EX EASy

### 3. Flight Envelope

#### 3.1 All Weather Capability

Cat I provided the aircraft is operated according to Flight Manual 88898

Cat II provided the aircraft is operated according to Flight Manual 88898

## Section 5: Falcon 2000EX Commercially Designated Aircraft Variants

HUD Cat I (M2746 or M2760 or M2967 or M2557 or M2752)

HUD Cat II/III (M2557 or M2752)

**4. Approved Operations**

The Falcon 2000EX EASy 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 :

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

Note 2: Following Approved Operations are available for F2000EX EASy, F2000DX F2000LX, Version airplanes

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 Category II approaches with HUD monitoring / EVS	cf. AFM SUP01 / 01A / 01B / 12 / 12A (Rockwell-Collins HGS 4860)
Manual Cat. II / III approach with Flight Dynamics HGS or Rockwell-Collins HGS 4860	cf. AFM SUP01 / 01A / 01B / 12 / 12A (Flight Dynamics HGS or Rockwell-Collins HGS 4860)
LPV approaches	cf. AFM SUP11 (M3300)
SSR mode S Enhanced Surveillance	A/C with M2641
RVSM	M1251 applied on basic A/C
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 5.5/6.0/6.65 degrees	Basic
Landing and take-off between 8000 ft and 14000 ft	A/C with M2706

## Section 5: Falcon 2000EX Commercially Designated Aircraft Variants

Approved Operations	Configuration requirements
Operations with landing gear down	Basic
ADS-B Out function in compliance with EU 1028-2014 and CS-ACNS.	A/C with M3301
IFR OCEANIC / RNP 10	Basic
NAT-MNPS	Basic
B-RNAV / RNP 5	Basic
RNP 4 OCEANIC AND REMOTE AIRSPACES	A/C with M3402
RNP 2 OCEANIC AND REMOTE AIRSPACES	A/C with M3402
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
Specific close-in Noise Abatement Departure Procedure (NADP), with reduction at a minimum of 400 feet AGL	Basic

**IV. Operational Suitability Data (OSD)**

The Operational Suitability Data elements listed below are approved by the European Union Aviation Safety Agency under EASA Type Certificate EASA.A.580 in accordance with Commission Regulation (EU) 748/2012 as amended.

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**

Operational Suitability Manual: Master Minimum Equipment List, document ref. DGT 94656, revision 9, dated 11 March 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.

**2. Flight Crew Data**

Operational Suitability Manual – Maintenance Certifying Staff, document ref DGT135365, revision original, dated 30 October 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.

Pilot Type Rating: The license endorsement for the Falcon 2000EX EASy is “**Falcon 2000EX EASy**”

**3. Cabin Crew Data**

Not Applicable

## Section 5: Falcon 2000EX Commercially Designated Aircraft Variants

### 4. Simulator Data

Not Available

### 5. Maintenance Certifying Staff Data

Operational Suitability Manual – Maintenance Certifying Staff, document ref DGT135365, revision original, dated 30 October 2015, or later accepted or approved revisions. The Type Certificate Holder should be contacted to verify the applicability of any MCSD revision within the UK.

The Maintenance Certifying Staff Type Rating for Falcon 2000EX EASy is: **Falcon 2000EX EASy (PWC PW308C)**

## Section 5: Falcon 2000EX Commercially Designated Aircraft Variants

### Variant 2. Falcon 2000DX Version Aeroplanes

#### I. General

F2000DX designation does not correspond to new model designation. This is only a commercial designation for Falcon 2000EX EASy airplanes on which Major Level 1 Modification M3000 has been applied.

##### 1. EASA Type Certification Application Date

23 January 2006

##### 2. 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 1 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.

##### 3. EASA Type Certification Date

19 September 2007

##### 4. UK CAA Type Validation Date

Prior to 31 December 2020, dates of type certification are covered by EASA type certification, as per Section 3 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 Falcon 2000DX UK CAA type validations have been completed since 01 January 2021.

#### II. Certification Basis

Modification M3000 is Major Level 1 Non-Significant.

This Modification has no impact on applicable requirements. Amendment levels of Falcon 2000EX type certification and most recent significant change (M1691 EASy) are retained.

##### 1. Operational Suitability Data (OSD) Certification Basis

Reference date for the definition of the OSD requirements: 17 February 2014

##### OSD Specifications:

**MMEL:** JAR-MMEL/MEL Section 1 Subpart A&B, Amendment 1, effective on 01 August 2005

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

##### Special Conditions

**MCSD:** SC MCSD-01 Certification basis for OSD-MCS

## Section 5: Falcon 2000EX Commercially Designated Aircraft Variants

**2. Environmental Protection****Noise:**

See TCDS-N no. UK.TC.A.00160.

**Fuel Venting & Emissions:**

ICAO Annex 16 Volume II, Part II, Chapter 2

**III. Technical Characteristics and Operational Limitations**

Only the paragraphs impacted by the change are described here below

**1. Type Design Definition**

F2000DX airplanes have received modification M3000 "Definition of the F2000DX" on the production assembly line starting with s/n 601 and subsequent.

**2. Equipment**

Defined in modification M3000

**3. Fluid Capacities**

Fuel Tank Capacity      (\*) Density has been assumed to be 0.803 kg/l (6.7 lb/US gal)

Without Modification M3072				
	Litres	Kg (*)	US gallons	Lbs(*)
<b>USABLE FUEL</b>				
- Left side	3441	2763	909	6091
- Right side	3452	2772	912	6111
- Front	716	575	189	1268
- Rear	691	555	183	1224
<b>TOTAL USABLE</b>	<b>8300</b>	<b>6665</b>	<b>2193</b>	<b>14694</b>
<b>UNUSABLE FUEL</b>				
- - Drainable	50	40	13	88
- - Undrainable	41	33	11	72
<b>TOTAL UNUSABLE</b>	<b>91</b>	<b>73</b>	<b>24</b>	<b>160</b>

## Section 5: Falcon 2000EX Commercially Designated Aircraft Variants

<b>With Modification M3072 (SB 171)</b>				
	<b>Litres</b>	<b>Kg (*)</b>	<b>US gallons</b>	<b>Lbs(*)</b>
<b>USABLE FUEL</b>				
- Left side	3425	2750	905	6064
- Right side	3436	2759	908	6084
- Front	716	575	189	1268
- Rear	691	555	183	1224
<b>TOTAL USABLE</b>	<b>8268</b>	<b>6639</b>	<b>2185</b>	<b>14640</b>
<b>UNUSABLE FUEL</b>				
- - Drainable	50	40	13	88
- - Undrainable	41	33	11	72
<b>TOTAL UNUSABLE</b>	<b>91</b>	<b>73</b>	<b>24</b>	<b>160</b>

**4. Maximum Design Weight**

	<b>Kg</b>	<b>Lbs</b>
Maximum Ramp Weight	18688	41200 lbs
Maximum Take-Off Weight	18597	41000 lbs
Maximum Landing Weight	17826	39300 lbs
Maximum Zero Fuel Weight	13472	29700 lbs

**5. Centre of Gravity Range**

The weight and balance charts are contained in the airplane flight manual

**IV. Operational Suitability Data (OSD)**

The Operational Suitability Data elements listed below are approved by the European Union Aviation Safety Agency under EASA Type Certificate EASA.A.580 in accordance with Commission Regulation (EU) 748/2012 as amended.

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**

Operational Suitability Manual: Master Minimum Equipment List, document ref. DGT 94656, revision 9, dated 11 March 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.

## Section 5: Falcon 2000EX Commercially Designated Aircraft Variants

### 2. Flight Crew Data

Operational Suitability Manual - Flight Crew, document ref. DGT148653, 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.

Pilot Type Rating: The license endorsement for the Falcon 2000DX is: **Falcon 2000EX EASy**

### 3. Cabin Crew Data

Not Applicable

### 4. Simulator Data

Not Available

### 5. Maintenance Certifying Staff Data

Operational Suitability Manual – Maintenance Certifying Staff, document ref DGT135365, revision original, dated 30 October 2015, or later accepted or approved revisions. The Type Certificate Holder should be contacted to verify the applicability of any MCSD revision within the UK.

The Maintenance Certifying Staff Type Rating for Falcon 2000DX is: **Falcon 2000EX EASy (PWC PW308C)**.

## Section 5: Falcon 2000EX Commercially Designated Aircraft Variants

### Variant 3. F2000LX Version Aeroplanes

#### I. General

F2000LX designation does not correspond to new model designation. This is only a commercial designation for F2000EX EASy airplanes on which Modification M2846 has been applied.

#### 1. EASA Type Certification Application Date

14 September 2006 (re-issued on 27 March 2009)

#### 2. 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 1 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.

#### 3. EASA Type Certification Date

23 April 2009

#### 4. UK CAA Type Validation Date

Prior to 31 December 2020, dates of type certification are covered by EASA type certification, as per Section 3 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 Falcon 2000LX UK CAA type validations have been completed since 01 January 2021.

#### II. Certification Basis

Modification M2846 is classified major Change level 1 Significant. The applicable airworthiness standard at the EASA application date is CS 25 amendment 1.

In accordance with PART 21.101, the certification basis of the Falcon 2000LX is the Falcon 2000 EX EASy certification basis amended by the following paragraphs of CS 25 at amendment 1:

CS 25 301	Loads
CS 25 302	Interaction of systems and structure
CS 25 305	Strength and deformation
CS 25 307	Proof of structure
CS 25 331	Symmetric manoeuvring conditions
CS 25 335	Design airspeed
CS 25 341(a)	Gust and turbulence loads
CS 25 341(b)	Gust and turbulence loads
CS 25 349	Rolling conditions
CS 25 351	Yawing manoeuvre conditions
CS 25 629	Flutter, deformation, and fail-safe criteria

## Section 5: Falcon 2000EX Commercially Designated Aircraft Variants

### 1. Operational Suitability Data (OSD) Certification Basis

Reference date for the definition of the OSD requirements: 17 February 2014

#### ***OSD specifications:***

**MMEL:** JAR-MMEL/MEL Section 1 Subpart A&B, Amendment 1, effective on 01 August 2005

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

#### ***Special Conditions***

**MCSD:** SC MCSD-01 Certification basis for OSD-MCS

### 2. Environmental Protection

#### **Noise:**

See TCDS-N no. UK.TC.A.00160.

#### **Fuel Venting & Emissions:**

ICAO Annex 16 Volume II, Part II, Chapter 2

## III. Technical Characteristics and Operational Limitations

Only the paragraphs impacted by the change are described here below:

### 1. Type Design Definition

Aviation Partners Inc (Seattle) and DASSAULT AVIATION entered into an agreement to develop winglets for installation on in-service aircraft and new aircraft.

In-service aircraft are addressed by API STC (no DA service bulletin), and new aircraft F2000EX EASY manufactured under the DASSAULT AVIATION POA are fitted with winglets under a M2846 and new slats under M3229 modifications whose approved data is identical to the API STC.

F2000LX airplanes have received the following modifications on the production line:

- M2846 Winglet installation
- M3229 New slats

On the production assembly line starting with s/n 218 and subsequent (optional modification before s/n 218)

### 2. Dimensions

Length	20.228 m (66 Ft 4.4 Ins)
Span	21.38 m (70 Ft 2 Ins)
Height	7.058 m (23 Ft 2Ins) 7.115 m with M1061
Gross wing area	49.00 m <sup>2</sup>

## Section 5: Falcon 2000EX Commercially Designated Aircraft Variants

**3. Maximum Design Weights**

With M2846 applied:

	Kg	Lb
Maximum runway weight	19233 kg	42400 Lb
Maximum take off weight	19142 kg	42200 Lb
Maximum landing weight	17826 kg	39300 Lb
Maximum zero fuel weight	13472 kg	29700 Lb

With M2846 and M3390 applied:

	Kg	Lb
Maximum runway weight	19504 kg	43000 Lb
Maximum take off weight	19414 kg	42800 Lb
Maximum landing weight	17826 kg	39300 Lb
Maximum zero fuel weight	13472 kg	29700 Lb

**4. Centre of Gravity Range**

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

**5. All Weather Capability**

Cat I provided the aircraft is operated according to Flight Manual 88898

Cat II provided the aircraft is operated according to Flight Manual 88898

HUD Cat I (M2746 or M2760 or M2967 or M2557 or M2752)

HUD Cat II/III (M3273)

**6. Approved Operations**

Approved Operations available for F2000LX are listed in Section 5, Variant 1, III(4).

**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.008 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. Aircraft Flight Manual**Airplane Flight Manual: Document DGT 88898 **NOTE 1**

## Section 5: Falcon 2000EX Commercially Designated Aircraft Variants

### 2. Instructions for Continued Airworthiness

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

- Airworthiness Limitation Section (Chapter 5-40, reference: DGT113877) <sup>NOTE 1</sup>
- Maintenance Planning Document (Chapter 5):
  - Reference: DGT 125294
- Airplane Maintenance Manual
- Fault Isolation Manual
- Illustrated Parts Catalogue (part list only)
- Structural Repair Manual (Part 1)
- Wiring Diagram Manual

Various statements:

The F2000LX version is compliant to:

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

### V. Operational Suitability Data

The Operational Suitability Data elements listed below are approved by the European Union Aviation Safety Agency under EASA Type Certificate EASA.A.580 in accordance with Commission Regulation (EU) 748/2012 as amended.

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

Operational Suitability Manual: Master Minimum Equipment List, document ref. DGT 94656, revision 9, dated 11 March 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.

#### 2. Flight Crew Data

Operational Suitability Manual - Flight Crew, document ref. DGT148653, 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.

Pilot Type Rating: The license endorsement for the Falcon 2000LX is "**Falcon 2000EX EASy**"

#### 3. SIM Data

Not Available

## Section 5: Falcon 2000EX Commercially Designated Aircraft Variants

### 4. Maintenance Certifying Staff Data

Operational Suitability Manual – Maintenance Certifying Staff, document ref DGT135365, revision original, dated 30 October 2015, or later accepted or approved revisions. The Type Certificate Holder should be contacted to verify the applicability of any MCSD revision within the UK.

The Maintenance Certifying Staff Type Rating for Falcon 2000LX is: **Falcon 2000EX EASy (PWC PW308C)**

### 5. Cabin Crew Data

Not Available

## Section 5: Falcon 2000EX Commercially Designated Aircraft Variants

### Variant 4. F2000LXS Version Aeroplanes

#### I. General

F2000LXS designation does not correspond to new model designation. This is only a commercial designation for F2000EX EASy<sup>(\*)</sup> airplanes on which modification M5000 has been applied.

(\*) Note: to be fitted with modification M5000, the F2000EX EASy airplanes must include the following modifications as pre-requisite:

- M3254 (EASy II).
- M2846 (Winglets installation).
- M3390 (W&B envelope increase for take-off)
- M3605 (Removal of autobrake function)

#### 1. EASA Type Certification Application Date

18 November 2008

#### 2. 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 1 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.

#### 3. EASA Type Certification Date

19 March 2013

#### 4. UK CAA Type Validation Date

Prior to 31 December 2020, dates of type certification are covered by EASA type certification, as per Section 3 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 Falcon 2000LS UK CAA type validations have been completed since 01 January 2021.

#### II. Certification Basis

The airworthiness requirements applicable to the F2000LXS consist of:

1. CS 25 amendment 5 and CS AWO initial issue

Except:

2. The following paragraphs for which EASA accept reversion to an earlier amendment in application to PART 21A101(b)

a) JAR 25 paragraphs at change 13

25.725, 25.727, 25.731, 25.733, 25.745, 25.772, 25.779, 25.781, 25.785, 25.787, 25.793, 25.795, 25.799, 25.803 to 25.807, 25.809 to 25.820, 25.831 to 25.833, 25.843 to 25.859, 25.871, 25.875, 25.1362, 25.1383 to 25.1403, 25.1411 to 25.1415, 25.1421, 25.1433, 25.1436 to 25.1450, 25.1453, 25.1455, 25.1461, 25.1499

## Section 5: Falcon 2000EX Commercially Designated Aircraft Variants

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

25.503, 25.627, 25.655, 25.672, 25.677 to 25.683, 25.689, 25.703, 25.721, 25.729, 25.771, 25.773, 25.777, 25.783, 25.789, 25.791, 25.841, 25.865, 25.867, 25.899 to 25.1182, 25.1185 to 25.1315, 25.1321 to 25.1360, 25.1363, 25.1365, 25.1381, 25.1423 to 25.1431, 25.1435, 25.1457, 25.1459, 25.1529 plus subpart J

c) CS 25 paragraphs at amendment 2

25.21(g), 25.103, 25.105, 25.107, 25.111, 25.119, 25.121, 25.123, 25.125, 25.143, 25.207, 25.237, 25.253, 25.1419

JAR AWO Change 1

AWO 100 to AWO 183, AWO 300 to AWO 390

f) JAR AWO change 2

AWO 200 to AWO 281, AWO 400 to AWO 481

### 1. Special Conditions

SC B-103	Automatic Reserve Performance System
SC B-1111	Steep Approach and Landing
SC C-107	Fuel Tank Crashworthiness
SC C-110	Yawing manoeuvres
SC C-1110	Autobrake System – Structural Loads
SC D-05	Resistance to fire and its terminology
SC D-10	Operations 47000 ft
SC D-16	Towbarless towing
SC D-115	Wheels, brakes and braking system
SC E-05	APU essential categorization
SC E-09	Thrust Reverser certification policy
SC E-113	Falling and blowing snow
SC F-21	Electronic Stand-by Instrument system
SC F-1106	Protection against HIRF
SC F-1117	Head-Up Guidance system
SC F-1123	Requirement for Human Factors
SC F-1143	Enhanced Flight Vision System (EFVS)
SC F-1154	Data Link Services for the Single European Sky
SC F-1155	Flight Recorders including Data Link Recording
SC F-1161	HUD installation
SC F-1162	Enhanced Flight Vision System (EFVS)
SC F-1163	Synthetic Vision / Combined Vision on HUD
SC F-1165	EFVS with Combined Vision on HUD
SC K-01	All weather operations

## Section 5: Falcon 2000EX Commercially Designated Aircraft Variants

### 2. Equivalent Safety Findings

- ESF D-07 Emergency exit sign used also as locator sign - cabin without divider
- ESF D-08 Emergency exit locator sign used also as marking sign - cabin with divider
- ESF D-09 Type III emergency exit handle lighting
- ESF D-1115 Lift and Drag Device Indicator
- ESF E-110 Engine fire protection in designated fire zone
- ESF E-112 Turbine engine tailpipe fire detection
- ESF E-1103 Powerplant instruments – Color markings
- ESF F-12 Oxygen mask in the galley area
- ESF F-1136 Honeywell PRIMUS EPIC integrated modular avionics system
- ESF F-1169 HUD symbology

### 3. Deviations

- DEV C-11 Personal injury criteria of dynamic testing of side-facing sofas deviates from JAR 25.785(d)
- DEV D-17 Door between passenger compartments

### 4. Operational Suitability Data (OSD) Certification Basis

Reference date for the definition of the OSD requirements: 17 February 2014

#### *OSD specifications:*

- MMEL:** JAR-MMEL/MEL Section 1 Subpart A&B, Amendment 1, effective on 01 August 2005
- FCD:** CS-FCD Initial Issue, effective on 31 January 2014

#### *Special Conditions*

- MCSD:** SC MCSD-01 Certification basis for OSD-MCS

### 5. Environmental Protection

#### **Noise:**

See TCDS-N no. UK.TC.A.00160.

#### **Fuel Venting & Emissions:**

ICAO Annex 16 Volume II, Part II, Chapter 2

### III. Technical Characteristics and Operational Limitations

Only the paragraphs impacted by the change are described here below:

## Section 5: Falcon 2000EX Commercially Designated Aircraft Variants

### 1. Type Design Definition

F2000LXS airplanes have received the following modifications on production line starting from S/N 263 and subsequent:

- M5000 – Various improvements
- M3254 – EASy phase II
- M2846 – Winglets installation
- M3390 – W&B envelope increase for take-off

### 2. Equipment

Defined in modification M5000

### 3. Engines

**Model:** PRATT & WHITNEY Canada PW308C Turbofan engines (see TCDS EASA.IM.E.057)

**Number:** 2

#### ENGINE LIMITS

##### THRUST RATINGS

PW 308C ENGINE (UNINSTALLED, SEA LEVEL, ISA)

- Take-off	6,998 lb (3,114 daN)
- Maximum continuous	6,998 lb (3,114 daN)

The take-off thrust rating is time limited to 5 minutes.

In case one engine inoperative, take-off thrust rating can be extended to 10 minutes.

##### THRUST SETTINGS

The engine low pressure rotor speed N1 is used as the thrust setting parameter.

The take-off and maximum continuous thrust as defined in AFM section 5-050-20 must be based on the N1 values given in AFM sections 5-400 and 5-450.

##### ROTOR SPEED LIMITS

CONDITION OF USE	N1	N2
Normal Take-off (5 minutes max.)	102.5 %	102 %
Maximum Take-off (5 minutes max.)	102.5 %	102 %
Maximum continuous	102.5 %	102 %
Transient (20 seconds)	103.5 %	103 %
	100 % N1 = 10,400 RPM	

##### ENGINE VIBRATION LIMITS

- Overall 0.96 in/sec average

## Section 5: Falcon 2000EX Commercially Designated Aircraft Variants

**INTERSTAGE TURBINE TEMPERATURE (ITT) LIMITS**

CONDITION OF USE	°C	
Ground start	950°C	
Airstart	950°C	
Restart max temperature:		
- Airstart	500°C	
- Groundstart	340°C	
Max. take-off (APR) transient	905°C	(2 minutes max.)
Max. take-off (APR)	895°C	(5 minutes max)
Max. take-off (APR) in case of OEI	875°C	(10 minutes max)
Take-off transient	890°C	(45 seconds max. then ITT must decrease linearly down to below 875°C within 3 min)
Normal take-off	875°C	(5 minutes max.)
Max. continuous	860°C	
Flight transient	890°C	(20 seconds max)
	875°C	(5 minutes max)

**OIL PRESSURE LIMITS**

Operating range	36 to 100 psi	
Transient:	10 to 220 psi	(90 sec. max)
	0 to 220 psi	(20 sec. max)
Minimum (at IDLE)	20 psi	
Cold start: during starting	240 psi	

**OIL TEMPERATURE LIMITS**

Maximum	135°C	
Minimum for take-off	27°C	
Minimum in flight	16°C	
Transient: for 90 sec.	143°C	
Cold start	-40°C	

**4. Airspeed**

VMCG (Minimum control speed on the ground) 94KCAS

**5. All Weather Capability**

Cat 1 provided the aircraft is operated according to Flight Manual 88898 HUD Cat I (M3318)

## Section 5: Falcon 2000EX Commercially Designated Aircraft Variants

**6. Maximum Design Weights**

	Kg	Lb
Maximum runway weight	19504 kg	43000 Lb
Maximum take-off weight	19414 kg	42800 Lb
Maximum landing weight	17826 kg	39300 Lb
Maximum zero fuel weight	14152 kg	31200 Lb

**7. Centre of Gravity Range**

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

**8. Approved Operations**

The Falcon 2000LXS 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:

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

Note 2: Following Approved Operations are available for F2000LXS and F2000S Version airplanes.

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, with FalconEye EVS operational credit down to 100 feet	cf. AFM SUP16A (M-OPT0063)
Automatic Category II approaches	Basic
Automatic Category II approaches with HUD monitoring / EVS	cf. AFM SUP01 / 01A / 01B / 12 / 12A / 16 / 16A (Rockwell-Collins HGS 4860 or FalconEye HUD)
Manual Cat. II / III approach with Flight Dynamics HGS or Rockwell-Collins HGS 4860	cf. AFM SUP01 / 01A / 01B / 12 / 12A (Flight Dynamics HGS or Rockwell-Collins HGS 4860 )
LPV approaches	cf. AFM SUP11 (M3300)
SSR mode S Enhanced Surveillance	Basic for F2000LXS and F2000S

## Section 5: Falcon 2000EX Commercially Designated Aircraft Variants

Approved operations	Configuration requirements
RVSM	M1251 applied on Basic A/C
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 5.5/6.0/6.65 degrees	Basic
Steep approach landing up to 5.5 on wet grooved runway (London city Airport)	Basic
Landing and take-off between 8000 ft and 14000 ft	A/C with M2706
Operations with landing gear down	Basic
ADS-B Out function	A/C with M3301
IFR OCEANIC / RNP 10	Basic
NAT-MNPS	Basic
B-RNAV / RNP 5	Basic
RNP 4 OCEANIC AND REMOTE AIRSPACES	A/C with M3402
RNP 2 OCEANIC AND REMOTE AIRSPACES	A/C with M3402
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
Specific close-in Noise Abatement Departure Procedure (NADP), with reduction at a minimum of 400 feet AGL	Basic

**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.008 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

## Section 5: Falcon 2000EX Commercially Designated Aircraft Variants

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. Aircraft Flight Manual

Airplane Flight Manual: Document DGT 88898 NOTE 1

### 2. Instructions for Continued Airworthiness

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

- Airworthiness Limitation Section (Chapter 5-40, reference: DGT113877) NOTE 1
- Maintenance Planning Document (Chapter 5):
  - Reference: DGT 125294
- Airplane Maintenance Manual
- Fault Isolation Manual
- Illustrated Parts Catalogue (part list only)
- Structural Repair Manual (Part 1)
- Wiring Diagram Manual

Various statements

The F2000LXS version is compliant to :

- GPS primary means provided the airplane is operated in accordance with associated Airplane Flight Manual
- CVR (EU-OPS1) requirements (2 hours).  
EGPWS (EU-OPS 1 § 665) provided the airplane is operated in accordance with the associated Airplane Flight Manual.
- TCAS II change 7.1 (EU-OPS 1 § 668) provided the airplane is operated in accordance with the associated Airplane Flight Manual.

## V. Operational Suitability Data

The Operational Suitability Data elements listed below are approved by the European Union Aviation Safety Agency under EASA Type Certificate EASA.A.580 in accordance with Commission Regulation (EU) 748/2012 as amended.

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

Operational Suitability Manual: Master Minimum Equipment List, document ref. DGT 94656, revision 9, dated 11 March 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.

## Section 5: Falcon 2000EX Commercially Designated Aircraft Variants

### 2. Flight Crew Data

Operational Suitability Manual - Flight Crew, document ref. DGT148653, 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.

Pilot Type Rating: The license endorsement for the Falcon 2000LXS is "**Falcon 2000EX EASy**"

### 3. SIM Data

Not Available

### 4. Maintenance Certifying Staff Data

Operational Suitability Manual – Maintenance Certifying Staff, document ref DGT135365, revision original, dated 30 October 2015, or later accepted or approved revisions. The Type Certificate Holder should be contacted to verify the applicability of any MCSO revision within the UK.

The Maintenance Certifying Staff Type Rating for Falcon 2000LX is: **Falcon 2000EX EASy (PWC PW308C)**

### 5. Cabin Crew Data

Not Available

## Section 5: Falcon 2000EX Commercially Designated Aircraft Variants

### Variant 5. F2000S Version Aeroplanes

#### I. General

F2000S designation does not correspond to new model designation. This is only a commercial designation for F2000LXS airplanes on which modification M5001<sup>(\*)</sup> has been applied.

(\*) Note: to be fitted with modification M5001, the F2000LXS airplanes must include the following modifications as pre-requisite:

- M3000 (F2000DX definition) and have the following modification removed:
- M3390 (W&B envelope increase for take-off)

#### 1. EASA Type Certification Application Date

18 November 2008

#### 2. 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 1 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.

#### 3. EASA Type Certification Date

19 March 2013

#### 4. UK CAA Type Validation Date

Prior to 31 December 2020, dates of type certification are covered by EASA type certification, as per Section 3 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 Falcon 2000FS UK CAA type validations have been completed since 01 January 2021.

#### II. Certification Basis

The airworthiness requirements applicable to the F2000S are the same as for Falcon 2000LXS

#### 1. Operational Suitability Data (OSD) Certification Basis

Reference date for the definition of the OSD requirements: 17 February 2014

##### ***OSD specifications:***

**MMEL:** JAR-MMEL/MEL Section 1 Subpart A&B, Amendment 1, effective on 01 August 2005

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

##### ***Special Conditions***

**MCSD:** SC MCSD-01 Certification basis for OSD-MCS

## Section 5: Falcon 2000EX Commercially Designated Aircraft Variants

**2. Environmental Protection Requirements****Noise:**

See TCDS-N no. UK.TC.A.00160.

**Fuel Venting & Emissions:**

ICAO Annex 16 Volume II, Part II, Chapter 2

**III. Technical Characteristics and Operational Limitations**

Only the paragraphs impacted by the change compared to F2000LXS are described here below.

**1. Type Design Definition**

F2000S airplanes have received the following modifications on production line starting with S/N 701 and subsequent:

- M5000 – F2000LX various improvements
- M3000 – F2000DX definition

**2. Equipment**

Defined in M5001 modification sheet

**3. All Weather Capability**

Cat 1 provided the aircraft is operated according to Flight Manual 88898

HUD Cat I (M3318)

**4. Fluid Capacities**

Fuel Tank Capacity (\*) Density has been assumed to be 0.803 kg/l (6.7 lb/US gal)

Without Modification M3072				
	Litres	Kg (*)	US gallons	Lbs(*)
<b>USABLE FUEL</b>				
- Left side	3441	2763	909	6091
- Right side	3452	2772	912	6111
- Front	716	575	189	1268
- Rear	691	555	183	1224
<b>TOTAL USABLE</b>	<b>8300</b>	<b>6665</b>	<b>2193</b>	<b>14694</b>
<b>UNUSABLE FUEL</b>				
- Drainable	50	40	13	88
- Undrainable	41	33	11	72
<b>TOTAL UNUSABLE</b>	<b>91</b>	<b>73</b>	<b>24</b>	<b>160</b>

## Section 5: Falcon 2000EX Commercially Designated Aircraft Variants

With Modification M3072 (SB 171)				
	Litres	Kg (*)	US gallons	Lbs(*)
<b>USABLE FUEL</b>				
- Left side	3425	2750	905	6064
- Right side	3436	2759	908	6084
- Front	716	575	189	1268
- Rear	691	555	183	1224
<b>TOTAL USABLE</b>	<b>8268</b>	<b>6639</b>	<b>2185</b>	<b>14640</b>
<b>UNUSABLE FUEL</b>				
- Drainable	50	40	13	88
- Undrainable	41	33	11	72
<b>TOTAL UNUSABLE</b>	<b>91</b>	<b>73</b>	<b>24</b>	<b>160</b>

## 5. Maximum Design Weights

	Kg	Lbs
Maximum Ramp Weight (without M5031 embodied)	18688	41200 lbs
Maximum Ramp Weight (with M5031 embodied)	19504	43000 lbs
Maximum Take-Off Weight (without M5031 embodied)	18597	41000 lbs
Maximum Take-Off Weight (with M5031 embodied)	19414	42800 lbs
Maximum Landing Weight	17826	39300 lbs
Maximum Zero Fuel Weight	13472	29700 lbs

## 6. Approved Operations

Approved Operations available for F2000S are listed in section 5, Variant 4, III(8).

## 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.008 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.

## Section 5: Falcon 2000EX Commercially Designated Aircraft Variants

### 1. Aircraft Flight Manual

Airplane Flight Manual: Document DGT 88898 and Document DGT140533 (Supplement 13 for A/C with M5031) <sup>NOTE 1</sup>

### 2. Instructions for Continued Airworthiness

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

- Airworthiness Limitation Section (Chapter 5-40, reference: DGT113877) <sup>NOTE 1</sup>
- Maintenance Planning Document (Chapter 5):
  - o Reference: DGT 135718
- Airplane Maintenance Manual
- Fault Isolation Manual
- Illustrated Parts Catalogue (part list only)
- Structural Repair Manual (Part 1)
- Wiring Diagram Manual

Various statements

The F2000S version is compliant to:

- GPS primary means provided the airplane is operated in accordance with associated Airplane Flight Manual
- CVR (EU-OPS1) requirements (2 hours). EGPWS (EU-OPS 1 § 665) provided the airplane is operated in accordance with the associated Airplane Flight Manual.
- TCAS II change 7.1 (EU-OPS 1 § 668) provided the airplane is operated in accordance with the associated Airplane Flight Manual.

## V. Operational Suitability Data

The Operational Suitability Data elements listed below are approved by the European Union Aviation Safety Agency under EASA Type Certificate EASA.A.008 in accordance with Commission Regulation (EU) 748/2012 as amended.

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

Operational Suitability Manual: Master Minimum Equipment List, document ref. DGT 94656, revision 9, dated 11 March 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.

### 2. Flight Crew Data

Operational Suitability Manual - Flight Crew, document ref. DGT148653, 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.

Pilot Type Rating: The license endorsement for the Falcon 2000S is "**Falcon 2000EX EASy**"

## Section 5: Falcon 2000EX Commercially Designated Aircraft Variants

### 3. SIM Data

Not Available

### 4. Maintenance Certifying Staff Data

Operational Suitability Manual – Maintenance Certifying Staff, document ref DGT135365, revision original, dated 30 October 2015, or later accepted or approved revisions. The Type Certificate Holder should be contacted to verify the applicability of any revision within the UK.

The Maintenance Certifying Staff Type Rating for Falcon 2000S is: **Falcon 2000EX EASy (PWC PW308C)**

### 5. Cabin Crew Data

Not Available

## VI. Notes

**Note 1:** 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 elements within the UK.

## Section 6: Administration

**Section 6      Administration****I.      Acronyms and Abbreviations**

Acronym / Abbreviation	Definition
AFM	Airplane Flight Manual
ALS	Airworthiness Limitations Section
AMM	Aircraft Maintenance Manual
APU	Auxiliary Power Unit
ATN	Aeronautical Telecommunication Network
AWO	All Weather Operations
CCD	Cabin Crew Data
CDFA	Continuous Descent Final Approach
CPDLC	Controller Pilot Data Link Communication
CRI	Certification Review Item
CS	Certification Specification
EASA	European Union Aviation Safety Agency
EFVS	Enhanced Flight Vision System
ESF	Equivalent Safety Finding
FCD	Flight Crew Data
FIM	Fault Isolation Manual
HUD	Head-Up Display
ICA	Instructions for Continued Airworthiness
ICAO	International Civil Aviation Organization
IPC	Illustrated Part Catalogue
MAC	Mean Aerodynamic Chord
MCS	Maintenance Certifying Staff
MCSD	Maintenance Certifying Staff Data
MEL	Minimum Equipment List
MMEL	Master Minimum Equipment List
MPD	Maintenance Planning Document

OSD	Operational Suitability Data
P/N	Part Number
SC	Special Condition
SIMD	Simulator Data
SRM	Structural Repair Manual
TCDS	Type Certificate Data Sheet
TCDSN	Type Certificate Data Sheet for Noise
TRAS	Thrust Reverser Actuation System
WDM	Wiring Diagram Manual

**II. Type Certificate Holder Record**

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

**III. Amendment Record**

TCDS Issue No.	TCDS Issue Date	Changes	TC Issue and Date
01	23 January 2026	Initial Issue.	Issue 01 23 January 2026

## **Explanatory Note to TCDS UK.TC.A.00160**

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.00160.

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