TYPE-CERTIFICATE
DATA SHEET

No. EASA.IM.A.620

for
Model 700

Type Certificate Holder:
Textron Aviation, Inc.
One Cessna Boulevard
Wichita, KS 67215
USA

For Models: 700
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SECTION 1: Model 700

I. General

1. Type/ Model/ Variant
   1.1 Type: Textron Aviation
   1.2 Model: 700
   1.3 Variants: N/A

2. Performance Class
   A

3. Certifying Authority
   Federal Aviation Administration (FAA) USA
   Wichita Aircraft Certification Office Branch
   1801 Airport Rd, Room 100
   Wichita, KS 67209
   USA

4. Manufacturer
   Textron Aviation Inc.
   One Cessna Boulevard
   Wichita, KS 67215
   USA

5. State of Design Authority Certification Application Date
   Model 700 25 November 2014

6. EASA Type Certification Application Date
   Model 700 25 November 2014

7. State of Design Authority Type Certificate Date
   Model 700 21 September 2019

8. EASA Type Certification Date
   Model 700 12th July 2021
II. Certification Basis

Non-proprietary data contained in selected Special Conditions that are part of the Certification Basis are published in an Explanatory Note to the TCDS with the number: 01. The document is not exhaustive and will be gradually updated. An update of the Explanatory Note will not cause an update of the TCDS.

1. Reference Date for determining the applicable requirements
   20 November 2014

2. State of Design Airworthiness Authority Type Certification Data Sheet No.
   FAA Type Certificate Data Sheet No. T00015WI

3. State of Design Airworthiness Authority Certification Basis
   See FAA Type Certificate Data Sheet No. T00015WI

4. EASA Airworthiness Requirements

   Certification Specification CS-25 Amendment 15, dated 23 July 2014 amended with the following requirements:
   - CS 25.975 at CS-25 Amendment 18, dated 22 June 2016.
   - CS 25.603(a), 25.788(b), 25.811(e)(2), 25.812(d), Appendix S at CS-25 Amendment 19, dated 12 May 2017
   - CS 25.853(g) at CS-25 Amendment 23, dated 16 July 2019
   - CS-ACNS issue 2 dated 26 April 2019
   - CS-FCD Initial Issue, dated 31 January 2014
   - CS-MMEL Initial Issue, dated 31 January 2014
   - CS-SIMD Initial Issue, dated 2 December 2014

5. Special Conditions (see note 15)

   D-01   Flight Instrument External Probes – Qualification in Icing Conditions
   D-05   Control Surface Position Awareness / Electronic Flight Control Systems
   D-09   Airworthiness Standards for aircraft operations under snow both falling and blowing
   D-18   Rudder Control Reversal Load Conditions
   D-19   High Altitude Operation above 41.000 ft / High Cabin Heat Load
   D-27   Personal injury criteria of dynamic testing of side facing sofas
   D-33   Occupant Protection for Side-Facing Seat Installed Forward of Aft-Facing Seat
   D-34   Pilot compartment view – Hydrophobic coatings in lieu of windshield wipers
   E-05   Water / Ice in Fuel
   E-09   Engine Cowling Retention
   SC-E25.904-01 Use of APR for Go-Around Performance Credit
   F-09   Flight Recorders including Data Link Recording
   F-12   Security Protection of Aircraft Systems and Networks
   F-20   Rechargeable Lithium battery installations
III. Technical Characteristics and Operational Limitations

1. Type Design Definition

2. Description
The Textron Aviation Model 700 is a pressurized, low-wing monoplane that is certified for up to thirteen occupants including a minimum crew of two.

3. Equipment
The basic required equipment as prescribed in the applicable airworthiness regulations (see Certification Basis) must be installed in the aircraft for certification.

4. Dimensions
Length: 22.30 m (73.2 Ft)
Height (Static Condition): 5.91 m (19.5 Ft) Wing Span: 21.00 m (68.11 Ft)
Wing Area: 49.91 m² (537.27 Ft²)
5. Engines
Two Honeywell AS907-2-1S Turbofan Engines (refer to EASA Data Sheet EASA.IM.E.058)

Engine Limits Static Thrust Standard Day, Sea Level
- **Takeoff:** 34.10 kN (7,665 lbs)
- **Maximum Continuous:** 33.04 kN (7,428 lbs)

Maximum Permissible Engine Rotor Operating Speeds:
- **N₁ (Fan):**
  - Takeoff: 9,830 RPM (96.79%)
  - Continuous: 9,800 RPM (96.49%)
- **N₂ (Gas Gen.):**
  - Takeoff: 27,714 RPM (98.62%)
  - Continuous: 27,599 RPM (98.22%)
  - Transient: 28,075 RPM (99.9%)

Maximum Permissible Interturbine Gas Temperatures °C (°F):
- **Takeoff:** 955 (1,751)
- **Max. Continuous:** 950 (1,742)

6. Auxiliary Power Unit
APU Model 36-150, from Honeywell

APU is non-essential.

APU limitations: according to applicable EASA approved Aircraft Flight Manual (referenced in Chapter IV.1).

- **Maximum Operating Altitude:** FL350
- **Maximum Starting Altitude:** FL310

7. Propellers
None

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

9. Fluid Capacities
***Fuel Capacity (usable)***
Total usable fuel 6580.95 kg (8199.2 l) [14,511 lb (2,166 USgal)]. Two wing tanks with 3290.25 kg (4099.6 l) [7,255.5 lb (1,083 USgal)] usable each (See NOTE 1 for unusable); +10.73 m (+422.39 in) aft of datum.
Oil Capacity (usable) Tank mounted on each engine: 1.51 l (1.60 USQuarts) usable RH engine, 1.60 l (1.7 USQuarts) usable LH engine; +15.07 m (+593.29 in) aft of datum (See NOTE 1)

10. Airspeed Limits

Vmo (maximum operating speed)
- Sea Level (0 ft.) 290 KIAS (289 KCAS)
- 8,000 ft. 305 KIAS (304 KCAS)
- Airspeed to be linearly interpolated from 0 ft. – 8,000 ft.
- 8,000 ft. to 29,375 ft. 325 KIAS (324 KCAS)
- Mmo above 29,375 ft. 0.84 MI (0.838 MACH calibrated)

Va (Maneuvering speed sea level)
- 39,500 lb. 222 KIAS (221 KCAS)

See AFM for variations with weight and altitude.

VRA (Rough air speed)
- 235 KIAS (234 KCAS)/ 0.75 MI (0.747 MACH calibrated)

Flap extension speeds
- VFE (Up (0°) to 1 (7°) extension) 250 KIAS (249 KCAS)
- VFE (1 (7°) to 2 (15°) extension) 230 KIAS (229 KCAS)
- VFE (2 (15°) to Full (35°) extension) 180 KIAS (179 KCAS)

VMCA (Minimum control speed) Air Flaps 1
- 100 KIAS (100 KCAS)

VMCA (Minimum control speed) Air Flaps 2
- 96 KIAS (96 KCAS)

VMCL (Minimum control speed)
- Landing Flaps 2 102 KIAS (102 KCAS)

VMCL (Minimum control speed)
- Landing Flaps Full 91 KIAS (91 KCAS)

VMCG (Minimum control speed)
- Ground Flaps 1 80 KIAS (80 KCAS)

VMCG (Minimum control speed)
- Ground Flaps 2 80 KIAS (80 KCAS)

VLO (Landing gear operating speed)
- 230 KIAS (229 KCAS)

VLE (Landing gear extended speed)
- 230 KIAS (229 KCAS)

VSB (Max speed brakes extension speed)
- No Limit

Maximum tyre ground speed 195 knots

11. Flight Envelope

The flight envelope is defined in the applicable EASA approved Aircraft Flight Manual; referenced in Chapter IV.1.

12. Operating Limitations

12.1 Approved Operations

The Model 700 is eligible for the following kinds of operation when the appropriate equipment and instruments required by the operating requirements are installed, approved, and operating as defined by the MMEL or MEL:

- Category I
12.2 Other Limitations
Other limitations as defined in the applicable EASA approved Aircraft Flight Manual (AFM); referenced in Chapter IV.1.

13. Maximum Certified Masses
<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Takeoff</td>
<td>17,917 kg (39,500 lb)</td>
</tr>
<tr>
<td>Landing</td>
<td>15,195 kg (33,500 lb)</td>
</tr>
<tr>
<td>Zero Fuel</td>
<td>12,156 kg (26,800 lb)</td>
</tr>
<tr>
<td>Ramp</td>
<td>18,008 kg (39,700 lb)</td>
</tr>
</tbody>
</table>

14. Centre of Gravity Range
Forward:
- Linear variation from 34.00% MAC at 10,160 kg (22,400 lb) to 30.57% MAC at 10,886 kg (24,000 lb).
- Linear variation from 30.57% MAC at 10,886 kg (24,000 lb) to 26.30% MAC at 12,701 kg (28,000 lb).
- Linear variation from 26.30% MAC at 12,701 kg (28,000 lb) to 24.00% MAC at 14,515 kg (32,000 lb).
- 24.00% MAC at 14,515 kg (32,000 lb) to 16,329 kg (36,000 lb).
- Linear variation from 24.00% MAC at 16,329 kg (36,000 lb) to 25.50% MAC at 18,008 kg (39,700 lb).
- Takeoff Forward 25.42% MAC at 17,913.83 kg (39,500 lb).

Aft:
- 40.63% MAC at 10,160 kg to 10,433 kg (22,400 lb to 23,000 lb)
- Linear variation from 40.63% MAC at 10,433 kg (23,000 lb) to 31.95% MAC at 13,608 kg (30,000 lb).
- 31.95% MAC at 13,608 kg to 17,010 kg (30,000 lb to 37,500 lb).
- Linear variation from 31.95% MAC at 17,010 kg (37,500 lb) to 30.99% MAC at 18,008 kg (39,700 lb).
- Takeoff Aft 31.07% MAC at 17917 kg (39,500 lb).

Landing Gear retracting moment -780.01 Nm (-6,904 in-lb).

15. Datum
3.44 m (135.52 in) forward of the nose jack point.

16. Mean Aerodynamic Chord (MAC)
3.02 m (118.99 in) (L.E. of MAC at +10.21 m (+402.02 in) aft of datum)
17. Levelling Means
Longitudinal: Place level directly on the inboard crew seatrail and ensure it is parallel with the seatrail.
Lateral: Place the leveling bar across the inboard crew seatrails flush against the back of the rails at approximately FS 4.06 m (160.00 in).

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

19. Minimum Cabin Crew
None

20. Maximum Seating Capacity
Maximum Fourteen (two crew plus twelve passenger seats)

21. Baggage/ Cargo Compartment
Aft Cabin Baggage Compartment 453.6 kg (1,000 lbs)

22. Wheels and Tyres
Tyre limit-maximum ground speed 195 Knots

23. ETOPS
Reserved

IV Operating and Service Instructions

1. Airplane Flight Manual (AFM)
700FM-03, Airplane Flight Manual Model 700 Citation Longitude (or later revision)

2. Instructions for Continued Airworthiness and Airworthiness Limitations
The MRB process has been selected as Means of Compliance for developing the scheduled maintenance instructions as required by CS 25.1529 and Appendix H. The tasks and their frequencies listed in the MRB Report form part of the Instructions for Continued Airworthiness.
Information essential to the proper servicing and maintenance of the aircraft is contained in the Manufacturer’s Manual section of the Instructions for Continued Airworthiness, Maintenance Manual marked 700MM03 or later revision. Mandatory component replacement times, structural inspection intervals and related structural inspection procedures and Certification Maintenance Requirements are presented in the approved Airworthiness Limitations Manual marked 700ALM04, or later revision approved or accepted by EASA.

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 as per Commission Regulation (EU) 748/2012 as amended by Commission Regulation (EU) No 69/2014.
1. Master Minimum Equipment List
   a. The Master Minimum Equipment List has been approved as per the defined Operational Suitability Data Certification Basis and as documented in Model 700 Operational Suitability Data MMEL (reference: 700MMELEU-00) revision/original dated 12th July 2021, or later approved revisions.
   b. Required for entry into service by EU operator.

2. Flight Crew Data
   a. The Flight Crew data has been approved as per the defined Operational Suitability Data Certification Basis and as documented in model 700 Operational Suitability Data Flight Crew Data (Ref: PR-700-802 Rev A dated 29th June 2021), or later approved revisions.
   b. Required for entry into service by EU operator.

3. Maintenance Certifying Staff Data
   a. The Maintenance Certifying Staff Data has been approved as per the defined Operational Suitability Data Certification Basis and as documented in model 700 Operational Suitability Data Maintenance Certifying staff data (Ref: 700OSDMCS-01 rev./- dated 19 November 2020), or later approved revisions.
   b. Required for entry into service by EU operator.

4. Flight Simulator Training Device Data
   a. The Flight Simulator Training Device Data has been approved as per the defined Operational Suitability Data Certification Basis and as documented in model 700 Flight Simulator Training Device Data (Ref: PR-700-800 rev./- dated 30th April 2021), or later approved revisions
   b. Required for entry into service by EU operator.

VI. Notes

NOTE 1:
Current weight and balance information, including list of equipment included in certificated empty weight, and loading instructions are provided for each airplane at the time of original certification.

The certificated empty weight and corresponding center of gravity location must include:

<table>
<thead>
<tr>
<th>Equipment</th>
<th>Weight (kg)</th>
<th>Distance (m)</th>
<th>Weight (lb)</th>
<th>Distance (in)</th>
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<tbody>
<tr>
<td>Unusable Fuel</td>
<td>37.68</td>
<td>+10.59</td>
<td>83.08</td>
<td>+417.07</td>
</tr>
<tr>
<td>Full Oil</td>
<td>10.55</td>
<td>+15.07</td>
<td>23.25</td>
<td>+593.29</td>
</tr>
<tr>
<td>Hydraulic Fluid</td>
<td>35.17</td>
<td>+12.39</td>
<td>77.53</td>
<td>+487.89</td>
</tr>
</tbody>
</table>

NOTE 2:
Airplanes must be operated according to the FAA Approved AFM, part numbers 700FM-00 AFM Volume 1, 700NP-00 AFM Volume 2 Normal Procedures, and 700EAP-00 AFM Volume 3 Emergency/ Abnormal Procedures (or later FAA approved revisions). All placards required by either the FAA-approved Aircraft Flight Manual, the applicable operating rules, or the certification basis must be installed as specified for this Type Certificate via Parts List 7400100, Airplane Assembly. (A useful placarding reference is the Textron Aviation Illustrated Parts Catalogue (IPC). Any discrepancies identified between the IPC and an aircraft under inspection need to be reconciled using the previously stated parts list.)
NOTE 3:
See Maintenance Manual, Chapter 4, "Airworthiness Limitations" for inspections, mandatory retirement life information, and other requirements for continued airworthiness.

NOTE 4:
Aircraft definition for Type Certificate is Parts List 7400100, Airplane Assembly.

NOTE 5:
Certification Maintenance Requirements (CMR) are found in Maintenance Manual, Chapter 4. Engineering approval of the CMR’s is documented in the Textron Aviation System Safety Assessment reports.

NOTE 6:
Reserved

NOTE 7:
Reserved

NOTE 8:
Reserved

NOTE 9:
The Model 700 has been approved for high altitude operations (altitudes above 41,000 ft) by compliance with certain Part 25 sections. To ensure the compliance is maintained, any modifications to the pressure vessel must be approved in accordance with the requirements as shown in the appropriate certification basis. To ensure pressurization compliance is not affected, this includes modifications which could result in a pressure vessel opening, either crack-growth or antenna loss, greater than 35.48 cm² (5.5 in²).

NOTE 10:
The Model 700 has been shown to meet the airworthiness requirements for operations in RVSM airspace. All serial numbers are eligible. Each operator must obtain RVSM operating approval from their Competent Authority (CA).

NOTE 11:
The Model 700 received a Provisional Type Certificate on December 4, 2018, that was subsequently cancelled when the Type Certificate was issued on September 21, 2019.

NOTE 12:
The following serials will be certificated TC only: 700-0001 through 700-0004, 700-0008, 700-0009, and 700-0011. Production Certificate No. 4 applies to Model 700 serial numbers: 700-0007, 700-0010, 700-0012 and On.

NOTE 13:
The Model 700 is configured with fuel tank vent system protection approved by the FAA administrator, meeting the requirements of §121.1119(b) and §129.119(b).

NOTE 14:
Required Emergency Equipment: The basic required emergency equipment prescribed in the applicable airworthiness requirements (see certification basis) must be installed in the aircraft. Only hand fire extinguishers that use water and U.S. – UL 5B:C – Halotron BrX (2-BTP), C3H2BrF3, CAS Number 1514-82-5 OR U.S. – UL 2A:10B:C – Halotron (HCFC Blend-B), C2HCI2BrF3, CAS Number 306-83-2 are approved for use. No airplanes may have a combination of Halotron BrX AND Halotron I hand fire extinguishers installed. Refer to Regulation (EC) No 1005/2009 (as amended) for information on controlled substances.
NOTE 15:

Annex 1 contains public non-proprietary data in Special Conditions (including Deviations, Equivalent Safety Findings) that are part of the applicable Certification Basis as recorded in TCDS EASA.IM.A.620.
SECTION: ADMINISTRATIVE

I. Acronyms and Abbreviations
[N/A]

II. Type Certificate Holder Record
[N/A]

III. Change Record

<table>
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<tr>
<th>Issue</th>
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<th>TC issue</th>
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<tr>
<td>Issue 01</td>
<td>12 July 2021</td>
<td>Initial Issue</td>
<td>Initial Issue, 12 July 2021</td>
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<tr>
<td>Issue 02</td>
<td>10 August 2021</td>
<td>Administrative corrections. Added note 15. See</td>
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<tr>
<td>Issue 03</td>
<td>26 October 2021</td>
<td>Added section V containing OSD. Renumbered</td>
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<tr>
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<td>Section “notes” from V to VI</td>
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