

型号合格证数据单

TYPE CERTIFICATE DATA SHEET

编号/No:	TC0023A
版次/Revision:	8
型别/Model:	ARJ21-700
批准人/Approved By:	
职务/Title:	司长
日期/date:	2024-08-30

本数据单是型号合格证（编号：TC0023A）的组成部分，它规定了符合中国民用航空局的适航要求所颁发此型号合格证的产品的状态和限制。

This data sheet, which is part of Type Certificate (No:TC0023A), prescribes condition and limitation under which the product for which the Type Certificate was issued meets the airworthiness requirements of the Chinese Civil Aviation Regulation.

型号合格证持有人/ Type Certificate Holder:

中国商用飞机有限责任公司，中国上海市张杨路 25 号 200120。

The Commercial Aircraft Corporation of China, Ltd. No. 25, Zhangyang Road, Shanghai, China, 200120.

一、ARJ21-700/Chapter I ARJ21-700

1. 产品型别和批准日期/Model and Approval Date

型别 Model	申请日期 Application Date	批准日期 Approval Date	类别 category
ARJ21-700	2003年1月20日/Jan. 20, 2003	2014年12月29日/Dec. 29, 2014	运输类航空器/Transport Category Aircraft

2. 生产依据/ Production Basis

生产许可证编号: PC0031A。见注释 5 和注释 6。

Production Certificate No. PC0031A. See NOTE 5 and NOTE 6.

3. 审定基础/ Certification Basis

适航规章/Airworthiness standard	(i) 《运输类飞机适航标准》(CCAR-25-R3, 2001 年 5 月 14 日第三次修订), 其中§25.981 除外; <Airworthiness Standards: Transport Category Airplane> (CCAR-25-R3, Revision 3 on May 14, 2001), except §25.981; (ii) 依据《关于运输类飞机点火源防护追溯要求的通知》(民航发[2012]30 号), 《运输类飞机适航标准》(CCAR-25-R4, 2011 年 11 月 7 日第四次修订), 适用条款: 第 25.981 条(a)、(d), 其中(d)款的燃油箱可燃性要求除外; Under the <Retrospective Requirements for Transport Category Airplane Ignition Sources Prevention> (CAO No.2012-30) on Mar. 5, 2012> , <Airworthiness Standards: Transport Category Airplane> (CCAR-25-R4, Revision 4 on Nov. 7, 2011), applicable section: § 25.981(a), (d) except the fuel tank flammability requirement in paragraph (d); (iii) 《运输类飞机的持续适航和安全改进规定》(CCAR-26, 2011 年 11 月 7 日发布), 适用条款: 第 26.1 条, 第 26.5 条, 第 26.11 条, 第 26.37 条, 第 26.43 条, 第 26.45 条; <Continued Airworthiness and Safety Improvements for Transport Category Airplanes> (CCAR-26, Issued on Nov. 7, 2011), applicable sections: § 26.1, § 26.5, § 26.11, § 26.37, § 26.43, § 26.45; (iv) 已证明符合水上迫降 (§25.801) 和防冰 (§25.1419) 的要求。 The requirements of ditching (§25.801) and ice protection (§25.1419) have been complied with.
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专用条件/ Special Conditions	(i) SC-25-003 飞机驾驶舱舱门 (发布日期: 2014 年 11 月 26 日) SC-25-003 Flight-Deck Door (Issued on Nov. 26, 2014) (ii) SC-25-004 系统对结构的影响 (发布日期: 2014 年 11 月 26 日) SC-25-004 Interaction of Systems and Structures (Issued on Nov. 26, 2014) (iii) SC-25-005 发动机突然停车 (发布日期: 2014 年 11 月 26 日) SC-25-005 Load Caused by Engine Sudden Stoppage (Issued on Nov. 26, 2014) (iv) SC-25-006 起落架减震试验 (发布日期: 2014 年 11 月 26 日) SC-25-006 Landing Gear Shock Absorption Test Requirements (Issued on Nov. 26, 2014) (v) SC-25-007 隔热/隔音材料 (发布日期: 2014 年 11 月 26 日) SC-25-007 Thermal/Acoustic Insulation Materials (Issued on Nov. 26, 2014) (vi) SC-25-008 通过操纵品质评定系统的方法来评估飞行特性符合性 (发布日期: 2014 年 11 月 26 日) SC-25-008 Flight Characteristics Compliance via Handling Qualities Rating System Method (Issued on Nov. 26, 2014) (vii) SC-25-009 用于进近爬升和复飞阶段的起飞推力自动控制系统 (ATTCS) (发布日期: 2014 年 11 月 26 日) SC-25-009 ATTCS During Approach Climb and Go-around (Issued on Nov. 26, 2014) (viii) SC-25-010 高能电磁辐射场 (HIRF) (发布日期: 2014 年 11 月 26 日) SC-25-010 High Intensity Radiant Field (HIRF) (Issued on Nov. 26, 2014) (ix) SC-25-011 无正常电源时的运行 (发布日期: 2014 年 11 月 26 日) SC-25-011 Operation without Normal Power Supply (Issued on Nov. 26, 2014) (x) SC-25-012 电子飞行控制系统—舵面知晓和模式通告 (发布日期: 2014 年 11 月 26 日) SC-25-012 Fly By Wire: Control Surface Awareness and Mode Annunciation (Issued on Nov. 26, 2014) (xi) SC-25-013 电子飞行控制系统—指令信号完整性 (发布日期: 2014 年 11 月 26 日) SC-25-013 Fly By Wire: Command Signal Integrity (Issued on Nov. 26, 2014) (xii) SC-25-014 驾驶舱语音记录器 (CVR) 增加记录数据链功能和独立电源 (RIPS) (发布日期: 2014 年 11 月 26 日) SC-25-014 CVR with Data Link Recording Function and RIPS (Issued on Nov. 26, 2014) (xiii) SC-25-047 ARJ21-700 型飞机座椅关于热释放率和发烟特性要求 (证后。
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	发布日期: 2022 年 10 月 5 日) SC-25-047 Requirements for heat release rate and smoke generation characteristics of ARJ21-700 aircraft seat (post-TC. Issued on Oct. 5, 2022)
等效安全水平/ ELOS	(i) 问题纪要 A007: 发动机罩和短舱蒙皮防火等效安全/Issue Paper A007: ELOS for Engine Cover and Nacelle Skin Fire Prevention §25.1193(e)(3); (ii) 问题纪要 F004: 使用 1g 失速速度作为审定基础的等效符合性/ Issue Paper F004: Using 1-G Stall Speed as the Equivalent Safety Findings for TC Basis §25.103(a) 、 (a)(1) 、 (a)(2), §25.103(b), §25.103(c), §25.103(d), §25.107(b)(1), §25.107(b)(2), §25.107(c)(3), §25.107(g), §25.111(a), §25.119(b), §25.121(c), §25.121(d), §25.121(d)(3), §25.121(d)(4), §25.125(a)(2), §25.143(g), §25.145(a) 、 (a)(1), §25.145(b)(1) ~ (4), §25.145(b)(1), §25.145(b)(6), §25.145(c), §25.147(a) 、 (a)(2) 、 (c)(d), §25.149(c), §25.161(b) 、 (c)(1) 、 (c)(2) 、 (c)(3) 、 (d), §25.161(e)(3), §25.175(a)(2)、(b)(1)、(b)(2)、(b)(3)、(c)(4), §25.175(b)(2)(ii), §25.175(c), §25.175(d), §25.175(d)(5), §25.177(c), §25.181(a) 、 (b), §25.201(a)(2), §25.207(b), §25.207(c), §25.207(d), §25.207(e), §25.207(f), §25.233(a), §25.237(a) 、 (b)(1) 、 (b)(2), §25.735(f)(2), §25.735(g), §25.773(b)(1)(i), §25.1001(c)(1) 、 (c)(3), §25.1323(c)(1), §25.1323(c)(2), §25.1325(e), §25.1587(b)(2); (iii) 问题纪要 F008: 对 CCAR25.143(a)、(b)和 25.145(c)的等效安全/Issue Paper F008: ELOS for §25.143(a)、(b) and §25.145(c) §25.143(a)、(b), §25.145(c); (iv) 问题纪要 F010: 关于未在标牌或仪表上示出机动速度 V_A 的等效符合性 /Issue Paper F010: ELOS for the Maneuvering Speed V_A Placard or Indication §25.1545, §25.1583; (v) 问题纪要 P005: 辅助动力装置系统等效安全/Issue Paper P005: ELOS of APU Installation CCAR-25 E, F, G 分部; (vi) 问题纪要 P006: 飞行临界反推等效安全/Issue Paper P006:ELOS of Thrust Reverser §25.933(a)(1)(ii), §25.1309(b)(1); (vii) 问题纪要 P009: 点火开关快速切断措施等效安全/Issue Paper P009: ELOS of Ignition Quick Shut-off §25.1145(b);

	(viii)问题纪要 P013: 发动机燃油滤污染的告警措施/Issue Paper P013: Indication of Impending Fuel Filter Bypass §25.1305(c)(6), §25.997(d); (ix) 问题纪要 SE010: 关于 25.1309 的等效安全判定/Issue Paper SE010: ELOS for § 25.1309 §25.1309; (x) 问题纪要 SE011: 动力装置参数指示/See Issue Paper SE011: Parameter Indication of Powerplant §25.1549, §25.1321(c); (xi) 问题纪要 SE017: 关于话音记录器 (CVR) 符合性方式说明/Issue Paper SE017: Cockpit Voice Recorder §25.1457(c); (xii) 问题纪要 SE020: 将 FAR25.1435 (第 25-104 修正案) 作为 CCAR25.1435 的等效安全条款/Issue Paper SE020: Hydraulic System (Using FAR 25.1435 Amdt.25-104) §25.1435; (xiii)问题纪要 SE026: 座舱温湿度限制 (ELOS) /Issue Paper SE026: Cabin Temp-humidity Limits (ELOS) §25.831(g); (xiv)问题纪要 SE027: 关于垂直加速度计符合性方式说明/Issue Paper SE027: Vertical Acceleration Meter Installation§25.1459(a)(2); (xv) 问题纪要 EE-30: 航行灯系统垂直平面光强和掺入光强偏离/ Issue Paper EE-30: Intensity deviation in vertical plane and overlapping area of position lighting system §25.1389(b)(2), §25.1389(b)(3), §25.1393, §25.1395; (xvi)问题纪要 M-30: 高原运行时的座舱压力高度警告/ Issue Paper M-30: Cabin pressure altitude warning for high altitude operation §25.841(a), §25.841(b)(6); (xvii) 问题纪要 A-14: 超尺寸 I 型出口的最大许可乘客座椅数/ Issue Paper A-14: The maximum number of passenger seats permitted for oversized Type I exit §25.807(g); (xviii)问题纪要 A-17: 最后两排座椅间的过道宽度/ Issue Paper A-17: Width of aisle between seats of last two rows §25.815; (xix) 问题纪要 F-15: CCAR25.1517 的等效安全/ Issue Paper F-15: ELOS of CCAR 25.1517. §25.1517.
豁免/ Exemption	(i) E-001 发动机不可控高推力(UHT)部分豁免 §25.901(c) (生效日期: 2014

	年 11 月 26 日) (豁免有效期: 长期) E-001, Partial Exemption for Uncontrollable High Thrust, Issued on Nov. 26, 2014, §25.901(c) (Period of exemption: long-term) (ii) E-002 关于燃油箱结构闪电防护的豁免 §25.981(a)(3) (生效日期: 2014 年 11 月 26 日) (豁免有效期: 长期) E-002 , Exemption for Lightning Protection of Fuel Tank Structure, Issued on Nov. 26, 2014, §25.981(a)(3) (Period of exemption: long-term) (iii) E-003-R2 关于燃油箱可燃性要求临时豁免 §26.37 (生效日期: 2021 年 2 月 18 日) (豁免有效期及豁免限制条件详见豁免正文) E-003-R2, Temporary Exemption for Fuel Tank Flammability Requirement, Issued on Feb. 18, 2021, § 26.37, Issued on Feb.18, 2021. (Period of exemption and exemption limitations refer to the exemption E-003-R2) (iv) E-004 关于座舱压力高度限制的豁免 §25.841(a)(2)(i) (生效日期: 2014 年 12 月 5 日) (豁免有效期: 长期) E-004, Exemption for Cabin Pressure Altitude Limit, Issued on Dec. 5, 2014, §25.841(a)(2)(i) (Period of exemption: long-term) (v) E-015 ARJ21-700 型飞机对 CCAR-25-R3 25.1447(c)(1)的豁免 §25.1447(c)(1) (生效日期: 2022 年 10 月 5 日) (证后。豁免有效期: 长期) E-015, Exemption for CCAR-25-R3 25.1447 (c)(1) for ARJ21-700 aircraft, Issued on Oct. 5, 2022, §25.1447(c)(1) (post-TC. Period of exemption: long-term)
环 保 要 求 /Environmental Standards including Noise	(i) 《航空器型号和适航合格审定噪声规定》(CCAR-36-R1, 2007 年 4 月 15 日第一次修订) <Noise Standards: Aircraft Type and Airworthiness Certification> (CCAR-36-R1, Revision 1 on April 15, 2007) (ii) 《涡轮发动机飞机燃油排泄和排气排出物规定》(CCAR-34, 2002 年 3 月 20 日发布) <Fuel Venting and Exhaust Emission Requirements for Turbine Engine Powered Airplanes> (Issued on March 20, 2002)
其他	CCAR-26《运输类飞机的持续适航与安全改进》: 适用条款已包括在审定基础中, 对于 CCAR-26 的任何修订, 本 TC 持有人必须证明对适用条款的符合性。 CCAR-26 <Continued Airworthiness and Safety Improvements for Transport Category Airplanes> : applicable provisions of Part 26 have been included in the certification basis. For any future Part 26 amendments, the holder of this TC must demonstrate compliance with the applicable sections. 民航发[2012]30 号文《关于运输类飞机点火源防护追溯要求的通知》的要求已包括在审定基础中。 The requirements of Civil Aviation Order – Retrospective Requirements for Transport Category Airplane Ignition Sources Prevention (CAO No 2012-30) have been included in the certification basis.

4. 技术特性和使用限制/Technical Characteristics and Operational Limitations

型号设计定义/Type Design definition:

详见文件 971JB002 《ARJ21-700 飞机设计构型报告》，BJ 版或后续经批准版次。

971JB002 <ARJ21-700 Aircraft Design Configuration Report>, Revision BJ or subsequent approved revision.

发动机/Engines:

两台通用电气公司的涡轮风扇发动机；型别：CF34-10A16, CF34-10A16-C, CF34-10A16-D
(发动机型号合格证编号：E00070EN, 型号认可证编号：VTC0210E, 型号认可证数据单版次 7 或后续经批准版次)。

2 General Electric Turbofan Engines; Models: CF34-10A16, CF34-10A16-C, CF34-10A16-D
(Engine Type Certificate No.:E00070EN., VTC No.: VTC0210E, the Validation Data Sheet Revision 7 or subsequent approved revision).

发动机工作限制/Engine Limits:

工作状态 Status		时间限制 Time limit	ITT 限制 ITT limit	最大转速 Maximum speed N1% N2%		推力 ⁴ Thrust ⁴
起飞和复飞 Takeoff and go-around		5 分钟 ¹ 5 minutes ¹	951℃ ³	106.2	105	17300lb
最大起飞 Maximum takeoff		5 分钟 ¹ 5 minutes ¹	983℃ ³	106.2	105	17640lb
最大连续 Maximum continuous		连续 ² Continuous ²	960℃	106.2	105	16110lb
起动 Start	地面起动 Ground Start	参考起动机限制 Ref. to starter limits	740℃	不适用 N/A	不适用 N/A	不适用 N/A
	空中起动机起动 In flight start with starter assistance	参考起动机限制 Ref. to starter limits	875℃	不适用 N/A	不适用 N/A	不适用 N/A
	风车起动 Windmill start	不适用 N/A	875℃	不适用 N/A	不适用 N/A	不适用 N/A

注 1 油门杆角度大于最大连续，时间限制 5 分钟。单发工作时，自动推力储备（APR）时间限制延长到 10 分钟。

Note1 The time limit is five minutes when the throttle lever is at the position more than Maximum continuous rating. The 5-minute limit may be extended to 10 minutes for Auto Power Reserve (APR) during one engine inoperative.

注 2 单发失效后，工作的发动机在最大连续推力状态下能在长时间内提供较高的推力。

Note2 During one engine inoperative, the operative engine at the maximum continuous rating can provide higher thrust for long time.

注 3 起飞/复飞和 APR 推力对应的 ITT 限制基于 5 分钟时限。单发工作时，APR 时限延长到 10 分钟。

Note3 The ITT limits for TO/GA and APR ratings are based on 5 minutes. During one engine inoperative, the time limits extend to 10 minutes for APR.

注 4 发动机推力基于台架校准性能, 计算假设条件如下:

- (1) 海平面静态, 起飞推力和最大起飞推力平台温度 ISA+15℃, 最大连续推力平台温度 ISA+10℃;
- (2) 无飞机负载或引气;
- (3) 无进气损失。

Note4 Engine thrusts are based on calibrated test stand performance. These calculations assume the following conditions:

- (1) Static thrust , sea level ,takeoff and maximum takeoff flat-rated to ISA + 15℃, Maximum continuous flat-rated to ISA + 10℃.
- (2) No aircraft accessory loads or air extraction.
- (3) No inlet losses.

辅助动力装置/APU:

型别/Model: APS2600[A]。

制造商/Manufacturer: 美国汉胜公司/Hamilton Sundstrand.

辅助动力装置限制/ APU Limits:

APU 起动高度不高于 30,000ft。

The starting altitude of APU should not be higher than 30,000ft.

正常工作的转速范围 95%-105%。

Normal operating spool speed range is 95%-105%.

排气温度/Exhaust Gas Temperature:

APU 工作状态 APU Status	排气温度(EGT)限制值 Limit of the exhaust gas Temperature (EGT)	说明 Instructions
APU 起动 APU starting	1032℃	仅在地面时, 当温度达到此限制时自动停车; 在空中时, APU 不会自动停车 Only on the ground, when the EGT reaches the temperature limit, the APU would shut down automatically; In flight, the APU would not shut down automatically.
APU 运转 APU operating	718℃	仅在地面稳态工作时当温度达到此限制值, 3 秒后自动停车; 在空中时, APU 不会自动停车 Only during ground steady operating, the APU would shut down automatically in 3 seconds once the EGT reach the temperature limit; in flight ,the APU would not shut down automatically.
	788℃	仅在地面稳态工作时当温度达到此限制值, 0.5 秒后自动停车; 在空中时, APU 不会自动停车 Only during ground steady operating, the APU would shut down automatically in 0.5 second once the EGT reach the temperature limit; in flight, the APU would not shut down automatically.

燃油/Fuel:

符合如下要求的燃油为可接受:

满足国标 GB6537 要求的燃油。

Fuels in compliance with the GB6537.

其余符合 GE 喷气燃油规范 NO.D50TF2 的燃油。对每一批准的特殊燃油按照操作指南 GEK 112094 执行。

Other fuels in compliance with GE Specification NO.D50TF2. For each approved special fuel, the operating instructions defined in the GEK 112094 should be followed.

燃油添加剂及其浓度必须符合 GE 公司规范 NO.D50TF2 的要求。

Fuels additives and concentration must conform to GE Specification NO.D50TF2.

燃油容量/ Fuel capacities:

最大燃油容量

Maximum fuel capacities

油箱/Tank	容积/Volume (L)	重量/Weight (kg)
左油箱/Left tank	6468	5193
右油箱/Right tank	6468	5193
总计/Total	12936	10386

其中燃油密度以 0.803 kg/L 计。

The fuel density is counted as 0.803kg/L.

可用和不可用燃油重量及平衡力臂:

Weight and balance arm of the usable and unusable fuel

类别 Category	燃油位置 Fuel location	容积 Volume (L)	重量 Weight (kg)	力臂 Arm (mm)
可用燃油 Usable fuel	左油箱/Left tank	6421	5155	16005
	右油箱/Right tank	6421	5155	16005
	总计/Total	12842	10310	16005
不可用燃油 Unusable fuel	左油箱/Left tank	47	38	15735
	右油箱/Right tank	47	38	15735

其中燃油密度以 0.803 kg/L 计。

The fuel density is counted as 0.803kg/L.

滑油和滑油容量/Oil and Oil Capacities:

符合 GE 规范 NO.D50TF1 的滑油。对每一批准的特殊滑油按照操作指南 GEK 112094 执行。

Oils in compliance with GE Specification NO.D50TF1. For each approved special oil, the operating instructions defined in the GEK 112094 should be followed.

GE CF34-10A16, CF34-10A16-C, CF34-10A16-D 发动机滑油箱滑油总容量 13.3 US 夸脱, 其中可用滑油 12.7 US 夸脱。

Total oil tank capacity of GE CF34-10A16, CF34-10A16-C, CF34-10A16-D engine is 13.3 US quarts, usable oil is 12.7 US quarts.

空速限制/Airspeed Limits:

最大使用速度 $V_{MO}/M_{MO} = 330$ 节校正空速 (KCAS) / 0.82 马赫数

$V_{MO}/M_{MO} = 330 \text{ KCAS} / 0.82 \text{ M}$

对于其它空速限制, 见适用的 CAAC 批准的飞机飞行手册。

For other airspeed limits, see the appropriate CAAC-approved Airplane Flight Manual.

重心范围/ CG Range:

见适用的 CAAC 批准的飞机飞行手册。

See the appropriate CAAC-approved Airplane Flight Manual.

最大重量/Maximum Weights:

机型 Model	最大滑行重量 Maximum Taxiing Weight (kg)	最大起飞重量 Maximum Take-off Weight (kg)	最大着陆重量 Maximum Landing Weight (kg)	最大零油重量 (对应最大商载 8935kg) Maximum Zero Fuel Weight (Maximum Payload 8935kg) (kg)	最大零油重量 (对应最大商载 9745kg) Maximum Zero Fuel Weight (Maximum Payload 9745kg) (kg)
标准航程型 (STD)	40580	40500	37665	34163	34700
增大航程型 (最大着陆重量 38400kg选项) ER (Option: Maximum Landing Weight 38400kg Option)	43580	43500	38400	34163	34700
增大航程型 (最大着陆重量 40455kg选项) ER (Option: Maximum Landing Weight 40455kg Option)	43580	43500	40455	34163	34700

测量基准/Datum:

机身 0 站位，位于机头前点前 177.80mm 处。

The fuselage station zero is located 177.80mm forward of the nose section.

定水平措施 / Leveling Means:

铅锤式快速调平装置，布置于前起落架舱内左侧区域，其中铅锤放置在飞机右侧应急门前方的小行李架上。

A plumb bob leveling device is provided on the left side of the nose gear wheel well. The plumb is placed on a small luggage rack in front of the emergency door on the right side of the aircraft.

平均气动弦长 / Mean Aerodynamic Chord (MAC):

平均气动弦 (MAC) 弦长 3456.23mm;

The MAC length is 3456.23mm;

平均气动弦前缘至测量基准的距离 15629.83mm。

Distance between the leading edge of the MAC and the datum is 15629.83mm.

最小飞行机组: /Minimum Crew:

2 人/Two(2): 正驾驶和副驾驶/pilot and copilot

最大客座数/Maximum Passengers:

95 座（2 对出口，（超 I 型，I 型）出口布局）（见注释 8）。

95 seats (two pairs of exits , (oversized Type I , Type I) exit arrangement) (see NOTE 8).

最大行李/货物/ Max. Baggage/Cargo:

见适用的 CAAC 批准的重量平衡手册。

See appropriate CAAC-approved Weight and Balance Manual.

起飞和着陆的最大气压高度/Maximum Taking Off or Landing Pressure Altitude:

14,500ft/4,420.0m

最大运行高度/ Maximum Operating Altitude:

39,000ft/11,900m

操纵面运动/ Control Surface Movements:

操纵面最大行程:

Maximum control surface travel:

左右机翼的副翼

Ailerons of left and right wings

向上 20±1 度 20°±1° TE up

向下 20±1 度 20°±1° TE down

左右机翼内侧、外侧襟翼

Inboard/Outboard flaps of left and right wings

0±0.4、15±0.6、25±0.6、41.5±0.6 度

0°±0.4°、15 °±0.6°、25°±0.6°、41.5°±0.6°

左右机翼内侧、中间和外侧缝翼

Inboard/Median/Outboard slats of left and right wings

0±0.4、20.85±0.6 度

0°±0.4°、20.85°±0.6°

左右升降舵

Left and right elevators

向上 27±1 度, 27°±1° TE up

向下 20±1 度, 20°±1° TE down

水平安定面

Horizontal stabilizers

平尾后缘向上 13.5±0.5 度,13.5°±0.5° TE up

平尾后缘向下 2.1±0.5 度,2.1°±0.5° TE down

方向舵

Rudders

向左 25±1 度, 25°±1° left

向右 25±1 度, 25°±1° right

左右机翼地面/多功能扰流板

Ground spoilers/Multi-function spoilers

45±2 度, 45°±2°

必要设备 / Required Equipment:

适用的适航标准（见审定基础）所要求的基本必备设备必须安装在航空器上以满足型号合格审定的要求。

The basic required equipment as prescribed in the applicable airworthiness regulations (see the Certification Basis) must be installed in the aircraft to meet the requirements of type certification.

设备清单/Equipment List:

《ARJ21-700 飞机取证构型装机设备清册》（编号：971HZ2006，版次：W 或后续经批准版次）

<ARJ21-700 Aircraft TC configuration equipment list> (NO.971HZ2006, revision W or subsequent approved revision)

制造序列**适用的序号/Eligible Serial Numbers**

ARJ21-700

105-108、113-225、10126-10155

“缩小垂直间隔”（RVSM）空域运行/Operation in (RVSM) airspace:

ARJ21-700 飞机已经获准在“缩小垂直间隔”（RVSM）空域运行。有关 RVSM 在持续适航和运行方面的批准，必须按照 CAAC 咨询通告 AC-91-7“缩小垂直间隔（RVSM）空域的运行要求”和咨询通告 AC-21-13 “在 RVSM 空域实施 300 米（1000 英尺）垂直间隔标准运行的航空器适航批准”进行。

The Model ARJ21-700 has been approved to operate in “Reduced Vertical Separation Minimum” (RVSM) airspace. Continued airworthiness and operational approval aspects of RVSM must be constructed according to CAAC Advisory Circular (AC) 91-7 titled “Authorization of Aircraft and Operators for Flight in Reduced Vertical Separation Minimum Airspace” and AC-21-13, titled “Airworthiness Approval of Aircraft operating in Vertical Separation Minimum Airspace above 300 Meters (1000 Feet)”.

噪声/Noise

见适用的 CAAC 批准的飞机飞行手册。

See the appropriate CAAC-approved Airplane Flight Manual.

5. 批准的技术资料/Approved Technical Documents

使用类手册包括以下文件：/The Operational Manuals consist of the following Publications:

- a) ARJ21-700 飞机飞行手册：/ARJ21-700 Airplane Flight Manual: 编号 TP700001，初版或后续经批准的版次；Publication Number TP700001, Original Issue or subsequent approved revision.
- b) ARJ21-700 飞机飞行手册：/ARJ21-700 Airplane Flight Manual: 编号 TP700100，R7 或后续经批准的版次；Publication Number TP700100, R7 or subsequent approved revision.
- c) ARJ21-700 飞机重量平衡手册：/ARJ21-700 Airplane Weight and Balance Manual: 编号 TP700009，R18 或后续经批准的版次；Number TP700009, R18 or subsequent approved revision.

持续适航文件包括以下文件：/The Instructions for Continued Airworthiness consist of the following Publications:

- a) ARJ21-700 适航限制部分：/ARJ21-700 Airworthiness Limitation Section: 编号 TP700045，R10 或后续经批准的版次；Number TP700045, R10 or subsequent approved revision.
- b) ARJ21-700 飞机结构修理手册：/ARJ21-700 Airplane Structural Repair Manual: 编号 TP700008，R18 或后续经批准的版次；Number TP700008, R18 or subsequent approved revision.

6. 注释/Notes

- 注释/NOTE 1: 在初始适航审定时, 对每架飞机必须提供现行的重量平衡报告, 该重量平衡报告中含有该飞机空机重量所装设备的清单。
A current Weight and Balance Report must be provided for each aircraft at the time of initial airworthiness certification, and the report shall include the list of equipment installed on the empty airplane.
- 注释/NOTE 2: 经 CAAC 批准的飞机飞行手册、适用的运营规章或审定基础要求的标牌必须安装在飞机上。
All placards required by either the CAAC approved AFM, the applicable operating rules, or the Certification Basis must be installed in the aircraft.
- 注释/NOTE 3: 任何不可控高推力 (UHT) 失效状态, 可能会影响飞机的安全运行。因此, 飞行员应按照 CCAR-121 规定的使用困难报告要求报告不可控高推力故障的事件。
The occurrence of any uncontrollable high thrust failure condition may endanger the safe operation of airplane. As a result the pilot are required to report the occurrence of uncontrollable high thrust event under the requirement specified in CCAR-121 on the service difficulty report.
- 注释/NOTE 4: 飞行手册 TP700001 适用于首次型号合格取证构型的飞机, 飞行手册 TP700100 适用于首次型号合格取证后续设计更改构型的飞机。
AFM TP700001 is applicable to aircraft with initial certificated type design configuration; AFM TP700100 is applicable to aircraft with subsequent type design changed configurations after initial type certification.
- 注释/NOTE 5: 下列序列号的飞机为仅依据型号合格证生产:
105, 106.
The following Aircraft Serial Numbers were produced under the Type Certification only:
105, 106.
- 注释/NOTE 6: 生产许可证 (编号: PC0031A) 已于 2017 年 6 月 28 日颁发, 其中包含 ARJ21-700 型号。
Production Certificate (No. PC0031A) including the ARJ21-700 aircraft was issued on Jun. 28, 2017.
- 注释/NOTE 7: CCAR-26 第 26.1, 26.5, 26.11, 26.37, 26.43, 26.45 条款和民航发[2012]30 号文(CAO No 2012-30) 的符合性已确认。
Compliance findings have been addressed for the requirements of CCAR-26 §26.1, 26.5, 26.11, 26.37, 26.43, 26.45 and Civil Aviation Order (CAO) No 2012-30.
- 注释/NOTE 8: 前登机门和服务门作为超尺寸 I 型出口和其具有的超性能滑梯使得最大客座量提升到 95 座。这些出口和滑梯相关的任何更改都受到“滑梯必须要在出口的开启设施被启动后 10 秒内自动竖立”要求的约束, 否则, 最大乘客数为最初审定时 的 90 座。具体要求详见等效安全问题纪要 A-14。
The forward entrance and service door as an oversized Type I exit with over-performing slides enable the maximum passengers to be increased to 95. Any changes pertaining to these exits and slides are subjected to the requirement “slides installed must be automatically erected within 10 seconds from the time the opening means of the exit is actuated”. Otherwise, the maximum passengers are limited to 90 originally certified. Details refer to ELOS Issue Paper A-14.

二、ARJ21-700CCF（重大设计更改/Significant Design Change）

1. 产品型别和批准日期/Model and Approval Date

ARJ21-700CCF（COMAC Converted Freighter，中国商飞改装货机）是在ARJ21-700飞机（航线回购客机）基础上贯彻了经CAAC批准的中国商飞AMI-70001客改货重大设计更改的飞机，按照货机构型运行，是ARJ21-700飞机的一种新构型，不构成新型别。在本TCDS中和考虑适航指令适用性时，这些飞机仍属于ARJ21-700飞机。由于该设计更改改动程度较大，需要基于CCAR21.101的规定，确定并记录更改的审定基础。

The ARJ21-700CCF (COMAC Converted Freighter) is an ARJ21-700 airplane that has been modified from a repurchased airliner in accordance with CAAC approved COMAC AMI-70001 passenger converted into freighter significant design change to operate in a freighter configuration. ARJ21-700CCF is a new configuration of ARJ21-700, but not a new model. These aircraft remain ARJ21-700 aircraft for documentation purposes on this TCDS and with regard to the applicability of airworthiness directives. Because of the magnitude of this design change, the certification basis for the changed aspects was required to be established and documented in accordance with CCAR21.101.

申请日期/Application Date: 2021年6月18日/Jun. 18, 2021

批准日期/Approval Date: 2023年6月26日/Jun. 26, 2023

2. 生产依据/ Production Basis

（本节没有提及的内容均与第一章第2节内容保持一致）

(Contents not mentioned below are identical to those of the Charter I section 2)

改装部分依据经CAAC批准的AMI-70001生产。

The modification is conducted under CAAC approved AMI-70001.

3. 审定基础/ Certification Basis

（本节没有提及的内容均与第一章第3节内容保持一致）

(Contents not mentioned below are identical to those of the Charter I section 3)

3.1 适航规章/Airworthiness standard

根据CCAR21.101，作为重大设计更改，AMI-70001适用且需补充验证工作的适航条款142条，具体如下表1所示。

As a significant design change, 142 provisions are applicable and need substantiations for AMI-70001 in accordance with CCAR21.101, as shown in Table 1 below.

表 1 AMI-70001 的条款清单/ Table 1 List of provisions for AMI-70001

序号 /No.	条款 /Provision	条款名称 /Title	规章版本 /Regulation Version	备注 (CCAR-25-R4 和 R3 版本要求是否一致) Note(Whether the CCAR-25-R4 and R3 requirements are consistent)
1	25.1	适用范围/Applicability	CCAR-25-R4	否/No
2	25.23	载重分布限制/Load distribution limits	CCAR-25-R4	是/Yes
3	25.25	重量限制/Weight limits	CCAR-25-R4	是/Yes
4	25.27	重心限制/Center of gravity limits	CCAR-25-R4	是/Yes
5	25.29	空重和相应的重心/Empty weight and corresponding center of gravity	CCAR-25-R4	是/Yes
6	25.301	载荷/Loads	CCAR-25-R4	是/Yes
7	25.303	安全系数/Factor of safety	CCAR-25-R4	是/Yes
8	25.305	强度和变形/Strength and deformation	CCAR-25-R4	是/Yes
9	25.307	结构符合性的证明/Proof of structure	CCAR-25-R4	是/Yes
10	25.321	飞行载荷 总则/General	CCAR-25-R4	是/Yes
11	25.331	对称机动情况/Symmetric maneuvering conditions	CCAR-25-R4	是/Yes
12	25.341	突风和紊流载荷/Gust and turbulence loads	CCAR-25-R4	是/Yes
13	25.343	设计燃油和滑油载重/Design fuel and oil loads	CCAR-25-R4	是/Yes
14	25.345	增升装置/High lift devices	CCAR-25-R4	是/Yes
15	25.349	滚转情况/Rolling conditions	CCAR-25-R4	是/Yes
16	25.351	偏航机动情况/Yaw maneuver conditions	CCAR-25-R4	是/Yes
17	25.365	增压舱载荷/Pressurized compartment loads	CCAR-25-R4	是/Yes
18	25.367	发动机失效引起的非对称载荷 /Unsymmetrical loads due to engine failure	CCAR-25-R4	是/Yes
19	25.373	速度控制装置/Speed control devices	CCAR-25-R4	是/Yes
20	25.391	操纵面载荷：总则/Control surface loads: General	CCAR-25-R4	是/Yes
21	25.427	非对称载荷/Unsymmetrical loads	CCAR-25-R4	是/Yes
22	25.471	地面载荷 总则/Ground Loads General	CCAR-25-R4	是/Yes
23	25.473	着陆载荷情况和假定/Landing load conditions and assumptions	CCAR-25-R4	是/Yes
24	25.479	水平着陆情况/Level landing conditions	CCAR-25-R4	是/Yes
25	25.481	尾沉着陆情况/Tail-down landing conditions	CCAR-25-R4	是/Yes
26	25.483	单起落架着陆情况/One-gear landing conditions	CCAR-25-R4	是/Yes
27	25.485	侧向载荷情况/Side load conditions	CCAR-25-R4	是/Yes
28	25.487	回跳着陆情况/Rebound landing condition	CCAR-25-R4	是/Yes
29	25.489	地面操纵情况/Ground handling conditions	CCAR-25-R4	是/Yes

序号 /No.	条款 /Provision	条款名称 /Title	规章版本 /Regulation Version	备注 (CCAR-25-R4 和 R3 版本要求是否一致) Note(Whether the CCAR-25-R4 and R3 requirements are consistent)
30	25.491	滑行、起飞和着陆滑跑/Taxi, takeoff and landing roll	CCAR-25-R4	是/Yes
31	25.493	滑行刹车情况/Braked roll conditions	CCAR-25-R4	否/No
32	25.495	转弯/Turning	CCAR-25-R4	是/Yes
33	25.499	前轮侧偏与操纵/Nose-wheel yaw and steering	CCAR-25-R4	是/Yes
34	25.503	回转/Pivoting	CCAR-25-R4	是/Yes
35	25.507	倒行刹车/Reversed braking	CCAR-25-R4	否/No
36	25.561	应急着陆情况 总则/Emergency Landing Conditions General	CCAR-25-R4	否/No
37	25.571	结构的损伤容限和疲劳评定 /Damage-tolerance and fatigue evaluation of structure	CCAR-25-R4	否/No
38	25.581	闪电防护/Lightning Protection	CCAR-25-R4	是/Yes
39	25.601	总则/General	CCAR-25-R4	是/Yes
40	25.603	材料/Materials	CCAR-25-R4	是/Yes
41	25.605	制造方法/Fabrication methods	CCAR-25-R4	是/Yes
42	25.607	紧固件/Fasteners	CCAR-25-R4	是/Yes
43	25.609	结构保护/Protection of structure	CCAR-25-R4	是/Yes
44	25.611	可达性措施/Accessibility provisions	CCAR-25-R4	否/No
45	25.613	材料的强度性能和材料的设计值/Material strength properties and material design values	CCAR-25-R4	否/No
46	25.619	特殊系数/Special factors	CCAR-25-R4	是/Yes
47	25.623	支承系数/Bearing factors	CCAR-25-R4	是/Yes
48	25.621	铸件系数/Casting factors	CCAR-25-R4	是/Yes
49	25.625	接头系数/Fitting factors	CCAR-25-R4	是/Yes
50	25.629	气动弹性稳定性要求/Aeroelastic stability requirements	CCAR-25-R4	是/Yes
51	25.703	起飞警告系统/Takeoff warning system	CCAR-25-R4	是/Yes
52	25.771	驾驶舱/Pilot compartment	CCAR-25-R4	是/Yes
53	25.777	驾驶舱操纵器件/Cockpit controls	CCAR-25-R4	是/Yes
54	25.783	机身舱门/Fuselage doors	CCAR-25-R4	否/No 新增主货舱门按照 CCAR-25-R4, 原有舱门仍 然按照 CCAR-25-R3/ New main deck cargo door per CCAR-25-R4, original doors still per CCAR-25-R3
55	25.787	储存舱/Stowage compartments	CCAR-25-R4	否/No
56	25.789	客舱和机组舱以及厨房中物件的固定 /Retention of items of mass in passenger and crew compartments and galleys	CCAR-25-R4	是/Yes
57	25.791	旅客通告标示和标牌/Passenger information	CCAR-25-R4	是/Yes

序号 /No.	条款 /Provision	条款名称 /Title	规章版本 /Regulation Version	备注 (CCAR-25-R4 和 R3 版本要求是否一致) Note(Whether the CCAR-25-R4 and R3 requirements are consistent)
		signs and placards		
58	25.793	地板表面/Floor surfaces	CCAR-25-R4	是/Yes
59	25.801	水上迫降/Ditching	CCAR-25-R4	否/No
60	25.803	应急撤离/Emergency evacuation	CCAR-25-R4	是/Yes
61	25.807	应急出口/Emergency exits.	CCAR-25-R4	否/No
62	25.809	应急出口布置/Emergency exit arrangement	CCAR-25-R4	否/No
63	25.810	应急撤离辅助设施与撤离路线/Emergency egress assist means and escape routes	CCAR-25-R4	否/No
64	25.811	应急出口标记/Emergency exit marking	CCAR-25-R4	是/Yes
65	25.812	应急照明/Emergency lighting	CCAR-25-R4	否/No
66	25.813	应急出口通路/Emergency exit access	CCAR-25-R4	否/No
67	25.815	过道宽度/Width of aisle	CCAR-25-R4	是/Yes
68	25.817	最大并排座椅数/Maximum number of seats abreast	CCAR-25-R4	是/Yes
69	25.820	厕所门/Lavatory doors	CCAR-25-R4	否/No
70	25.831	通风/Ventilation	CCAR-25-R4	否/No
71	25.841	增压座舱/Pressurized cabins	CCAR-25-R4	否/No
72	25.843	增压座舱的试验/Tests for pressurized cabins	CCAR-25-R4	否/No
73	25.851	灭火器/Fire extinguishers	CCAR-25-R4	是/Yes
74	25.853	座舱内部设施/Compartment interiors	CCAR-25-R4	否/No
75	25.854	厕所防火/Lavatory fire protection	CCAR-25-R4	是/Yes
76	25.855	货舱和行李舱/Cargo and baggage compartments	CCAR-25-R4	否/No
77	25.856	隔热/隔音材料/Thermal/Acoustic insulation materials	CCAR-25-R4	否/No
78	25.857	货舱等级/Cargo compartment classification	CCAR-25-R4	否/No
79	25.858	货舱或行李舱烟雾或火警探测系统/Cargo or baggage compartment smoke or fire detection systems	CCAR-25-R4	是/Yes
80	25.863	可燃液体的防火/Flammable fluid fire protection	CCAR-25-R4	是/Yes
81	25.869	系统防火/Fire protection: systems	CCAR-25-R4	否/No
82	25.899	电搭接和防静电保护/Electrical bonding and protection against static electricity	CCAR-25-R4	否/No
83	25.903	发动机/Engines	CCAR-25-R4	是/Yes
84	25.963	燃油箱: 总则/Fuel tanks: general	CCAR-25-R4	是/Yes
85	25.965	燃油箱试验/Fuel Tank Tests	CCAR-25-R4	是/Yes
86	25.981	燃油箱点燃防护/Fuel tank ignition prevention	CCAR-25-R4	否/No ARJ21-700 飞机原审定基础中已包含

序号 /No.	条款 /Provision	条款名称 /Title	规章版本 /Regulation Version	备注 (CCAR-25-R4 和 R3 版本要求是否一致) Note(Whether the CCAR-25-R4 and R3 requirements are consistent)
				CCAR-25-R4 25.981(a)(d)/ Original Certification Basis of ARJ21-700 airplane includes 25.981(a)(d) CCAR-25-R4
87	25.1301	功能和安装/Function and installation	CCAR-25-R4	否/No
88	25.1309	设备、系统及安装/Equipment, systems, and installations	CCAR-25-R4	否/No
89	25.1310	电源容量和分配/Power source capacity and distribution	CCAR-25-R4	否/No
90	25.1316	系统闪电防护/System Lightning Protection	CCAR-25-R4	是/Yes
91	25.1317	高强辐射场(HIRF)防护/High-intensity Radiated Fields (HIRF) Protection	CCAR-25-R4	否/No
92	25.1322	警告灯、戒备灯和提示灯/Warning, caution, and advisory lights	CCAR-25-R4	是/Yes
93	25.1351	电气系统和设备 总则/Electrical Systems and Equipment General	CCAR-25-R4	是/Yes
94	25.1353	电气设备及安装/Electrical equipment and installations	CCAR-25-R4	否/No
95	25.1357	电路保护装置/Circuit protective devices	CCAR-25-R4	否/No
96	25.1360	预防伤害/Precautions against injury	CCAR-25-R4	否/No
97	25.1362	应急状态供电/Electrical supplies for emergency conditions	CCAR-25-R4	否/No
98	25.1365	电气设备、马达和变压器/Electrical appliances, motors, and transformers	CCAR-25-R4	否/No
99	25.1381	仪表灯/Instrument lights	CCAR-25-R4	是/Yes
100	25.1411	安全设备 总则/Safety Equipment General	CCAR-25-R4	否/No
101	25.1415	水上迫降设备/Ditching equipment	CCAR-25-R4	是/Yes
102	25.1423	机内广播系统/Public address system	CCAR-25-R4	否/No
103	25.1431	电子设备/Electronic Equipment	CCAR-25-R4	否/No
104	25.1438	增压系统和气动系统/Pressurization and pneumatic systems	CCAR-25-R4	是/Yes
105	25.1441	氧气设备和供氧/Oxygen equipment and supply	CCAR-25-R4	是/Yes
106	25.1443	最小补氧流量/Minimum mass flow of supplemental oxygen	CCAR-25-R4	是/Yes
107	25.1445	氧气分配系统设置的规定/Equipment standards for the oxygen distributing system	CCAR-25-R4	是/Yes
108	25.1447	分氧装置设置的规定/Equipment standards for oxygen dispensing units	CCAR-25-R4	否/No
109	25.1449	判断供氧的设备/Means for determining use of oxygen	CCAR-25-R4	是/Yes

序号 /No.	条款 /Provision	条款名称 /Title	规章版本 /Regulation Version	备注 (CCAR-25-R4 和 R3 版本要求是否一致) Note(Whether the CCAR-25-R4 and R3 requirements are consistent)
110	25.1450	化学氧气发生器/Chemical oxygen generators	CCAR-25-R4	是/Yes
111	25.1453	防止氧气设备破裂的规定/Protection of oxygen equipment from rupture	CCAR-25-R4	是/Yes
112	25.1455	易冻液体的排放/Draining of fluids subject to freezing	CCAR-25-R4	是/Yes
113	25.1461	含高能转子的设备/Equipment containing high energy rotors	CCAR-25-R4	是/Yes
114	25.1501	总则/General	CCAR-25-R4	是/Yes
115	25.1519	重量、重心和载重分布/Weight, center of gravity, and weight distribution	CCAR-25-R4	是/Yes
116	25.1523	最小飞行机组/Minimum flight crew	CCAR-25-R4	是/Yes
117	25.1529	持续适航文件/Instructions for Continued Airworthiness	CCAR-25-R4	是/Yes
118	25.1541	标记和标牌 总则/Markings and Placards General	CCAR-25-R4	是/Yes
119	25.1543	仪表标记 总则/Instrument markings: general	CCAR-25-R4	是/Yes
120	25.1555	操纵器件标记/Control markings	CCAR-25-R4	是/Yes
121	25.1557	其它标记和标牌/Miscellaneous markings and placards	CCAR-25-R4	是/Yes
122	25.1561	安全设备/Safety equipment	CCAR-25-R4	是/Yes
123	25.1581	飞机飞行手册 总则/Airplane Flight Manual General	CCAR-25-R4	是/Yes
124	25.1583	使用限制/Operating limitations	CCAR-25-R4	否/No
125	25.1585	使用程序/Operating procedures	CCAR-25-R4	否/No
126	25.1701	定义/Definition	CCAR-25-R4	否/No
127	25.1703	功能和安装: EWIS/Function and installation: EWIS	CCAR-25-R4	否/No
128	25.1705	系统和功能: EWIS/Systems and functions: EWIS	CCAR-25-R4	否/No
129	25.1707	系统分离: EWIS/System separation: EWIS	CCAR-25-R4	否/No
130	25.1709	系统安全: EWIS/System safety: EWIS	CCAR-25-R4	否/No
131	25.1711	部件识别: EWIS/Component identification: EWIS	CCAR-25-R4	否/No
132	25.1713	防火: EWIS/Fire protection: EWIS	CCAR-25-R4	否/No
133	25.1715	电气接地和防静电保护: EWIS/Electrical bonding and protection against static electricity: EWIS	CCAR-25-R4	否/No
134	25.1717	电路保护装置: EWIS/Circuit protective devices: EWIS	CCAR-25-R4	否/No
135	25.1719	可达性规定: EWIS/Accessibility provisions:	CCAR-25-R4	否/No

序号 /No.	条款 /Provision	条款名称 /Title	规章版本 /Regulation Version	备注 (CCAR-25-R4 和 R3 版本要求是否一致) Note(Whether the CCAR-25-R4 and R3 requirements are consistent)
		EWIS		
136	25.1721	EWIS 的保护/Protection of EWIS	CCAR-25-R4	否/No
137	25.1723	可燃液体防火: EWIS/Flammable fluid fire protection; EWIS	CCAR-25-R4	否/No
138	25.1725	动力装置: EWIS/Powerplants: EWIS	CCAR-25-R4	否/No
139	25.1729	持续适航文件: EWIS/Instructions for Continued Airworthiness: EWIS	CCAR-25-R4	否/No
140	25.1733	火警探测系统, 总则: EWIS/Fire detector systems, general: EWIS	CCAR-25-R4	否/No
141	26.11	电气线路互联系统 (EWIS) 维护大纲 /Electrical wiring interconnection systems (EWIS) maintenance program	CCAR-26	N/A
142	26.45	型号合格证/型号认可证持有人——改装和 对改装的修理/Holders of type certificates - Alterations and repairs to alterations	CCAR-26	N/A

对于次级更改或与该更改无关和/或不受该更改影响的特征或功能将沿用 ARJ21-700 飞机审定基础的适用适航要求, 相关适航条款见第一章第 3 节。

For minor changes or features or functions not related to and/or affected by such changes, the applicable airworthiness requirements of the ARJ21-700 aircraft certification basis will be followed, and the relevant airworthiness provisions are shown in Chapter I section 3.

3.2 专用条件/ Special Conditions

第一章第 3 节所列的专用条件仍适用于 ARJ21-700CCF 重大设计更改, 下列条目除外:

The Special Conditions in Chapter I section 3 still apply to the ARJ21-700CCF significant design change, except for the following items:

- (1) SC-25-003 飞机驾驶舱舱门 (发布日期: 2014 年 11 月 26 日) 不适用
SC-25-003 Flight-Deck Door (Issued on Nov. 26, 2014) Not Applicable
- (2) SC-25-047 ARJ21-700 型飞机座椅关于热释放率和发烟特性要求 (证后。发布日期: 2022 年 10 月 5 日)
不适用
SC-25-047 Requirements for heat release rate and smoke generation characteristics of ARJ21-700 aircraft seat
(post-TC. Issued on Oct. 5, 2022) Not Applicable

以下专用条件仅适用于 ARJ21-700CCF 重大设计更改:

The following Special Conditions are only applicable to ARJ21-700CCF significant design change:

- (1) SC-25-048 ARJ21-700 型飞机 (证后) E 级货舱的火情防护 (发布日期: 2022 年 12 月 28 日)
SC-25-048 Class E Cargo Compartment Fire Protection of the ARJ21-700 (Post-TC). (Issued on Dec. 28, 2022)

(2) SC-25-049 ARJ21-700 型飞机 (证后) 飞行中进入 E 级货舱 (发布日期: 2022 年 12 月 28 日)

SC-25-049 In Flight Access to Class E Cargo Compartments of the ARJ21-700 (Post-TC). (Issued on Dec. 28, 2022)

3.3 等效安全水平/Equivalent Level of Safety Findings

第一章第 3 节所列的等效安全水平仍适用于 ARJ21-700CCF 重大设计更改, 下列条目除外:

The Equivalent Level of Safety Findings in Chapter I section 3 still apply to the ARJ21-700CCF significant design change, except for the following items:

(1) 问题纪要 A-14: 超尺寸 I 型出口的最大许可乘客座椅数 不适用

Issue Paper A-14: The maximum number of passenger seats permitted for oversized Type I exit §25.807(g) Not Applicable

(2) 问题纪要 A-17: 最后两排座椅间的过道宽度 不适用

Issue Paper A-17: Width of aisle between seats of last two rows §25.815 Not Applicable

以下等效安全水平仅适用于 ARJ21-700CCF 重大设计更改:

The following ELOS is only applicable to ARJ21-700CCF significant design change:

(1) 问题纪要 A-23: 客改货项目-押运舱设计

Issue Paper A-23: The Design of Supernumerary Compartment for Passenger Converted to Freighter.

§25.807(g)(1)(i)(1)、25.809(a)、25.810(a)(1)、25.812(e)(1)(1)、25.813(c)(1)、25.857(e)、25.1441(c)、25.1447(c)(1)、25.1449

4. 技术特性和使用限制/Technical Characteristics and Operational Limitations

除下列条目更新外, 第一章第 4 节所有技术特性和使用限制仍适用于 ARJ21-700CCF 重大设计更改:

The Technical characteristics and operational limitations in Chapter I section 4 still apply to the ARJ21-700CCF significant design change, except for the following revised items:

4.1 发动机/Engines:

两台通用电气公司的涡轮风扇发动机; 型别: CF34-10A16

(发动机型号合格证编号: E00070EN, 型号认可证编号: VTC0210E, 型号认可证数据单版次 7 或后续经批准版次)。

2 General Electric Turbofan Engines; Models: CF34-10A16 (Engine Type Certificate No.:E00070EN., VTC No.: VTC0210E, the Validation Data Sheet Revision 7 or subsequent approved revision).

4.2 滑油和滑油容量/Oil and Oil Capacities:

符合 GE 规范 NO.D50TF1 的滑油。对每一批准的特殊滑油按照操作指南 GEK 112094 执行。
Oils in compliance with GE Specification NO.D50TF1. For each approved special oil, the operating instructions defined in the GEK 112094.should be followed.

GE CF34-10A16 发动机滑油箱滑油总容量 13.3 US 夸脱，其中可用滑油 12.7 US 夸脱。

Total oil tank capacity of GE CF34-10A16 engine is 13.3 US quarts, usable oil is 12.7 US quarts.

4.3 最大客座数/Maximum Passengers:

0 乘员，1 名押运员。

0 (Zero) Passenger, Up to 1 (One) Supernumerary.

4.4 制造序号/Serial Numbers

下列序列号飞机为 ARJ21-700CCF:

109, 112。

The following Serial Numbers Aircraft are ARJ21-700CCF:

109, 112.

5. 批准的技术资料/Approved Technical Documents

第一章第 5 节所列的批准的技术资料仍适用于 ARJ21-700CCF 重大设计更改，下列条目除外：

Approved Technical Documents showed in Chapter I section 5 still apply to the ARJ21-700 CCF significant design change, except for the following revised items:

(1) ARJ21-700 飞机结构修理手册：/ARJ21-700 Airplane Structural Repair Manual：编号 TP700008，R17 或后续经批准的版次；Number TP700008, R17 or subsequent approved revision. 不适用/ Not Applicable

以下持续适航文件仅适用于 ARJ21-700CCF 重大设计更改：

The following Instructions for Continued Airworthiness only apply to ARJ21-700CCF significant design change:

(1) ARJ21-700 客改货飞机结构修理手册：/ARJ21-700CCF Structural Repair Manual：编号 991QT3769，B 或后续经批准的版次；Number 991QT3769, B or subsequent approved revision.

6. 注释/Notes

注释/NOTE 1: 在初始适航审定时，对每架飞机必须提供现行的重量平衡报告，该重量平衡报告中含有该飞机空机重量所装设备的清单。

A current Weight and Balance Report must be provided for each aircraft at the time of initial airworthiness certification, and the report shall include the list of equipment installed on the empty airplane.

注释/NOTE 2: 经 CAAC 批准的飞机飞行手册、适用的运营规章或审定基础要求的标牌必须安装在飞机上。

All placards required by either the CAAC approved AFM, the applicable operating rules, or the Certification Basis must be installed in the aircraft.

注释/NOTE 3: 任何不可控高推力（UHT）失效状态，可能会影响飞机的安全运行。因此，飞行员应按照

CCAR-121 规定的使用困难报告要求报告不可控高推力故障的事件。

The occurrence of any uncontrollable high thrust failure condition may endanger the safe operation of airplane. As a result the pilot are required to report the occurrence of uncontrollable high thrust event under the requirement specified in CCAR-121 on the service difficulty report.

注释/NOTE 4: 飞行手册 TP700001 适用于首次型号合格取证构型的飞机, 飞行手册 TP700100 适用于首次型号合格取证后续设计更改构型的飞机。

AFM TP700001 is applicable to aircraft with initial certificated type design configuration; AFM TP700100 is applicable to aircraft with subsequent type design changed configurations after initial type certification.

注释/NOTE 5: 生产许可证(编号: PC0031A)已于2017年6月28日颁发, 其中包含 ARJ21-700 型号。

Production Certificate (No. PC0031A) including the ARJ21-700 aircraft was issued on Jun. 28, 2017.

注释/NOTE 6: CCAR-26 第 26.1, 26.5, 26.11, 26.37, 26.43, 26.45 条款和民航发[2012]30 号文(CAO No 2012-30)的符合性已确认。

Compliance findings have been addressed for the requirements of CCAR-26 §26.1, 26.5, 26.11, 26.37, 26.43, 26.45 and Civil Aviation Order (CAO) No 2012-30.

三、ARJ21-700B（设计大改/Major Design Change）

1. 产品型别和批准日期/Model and Approval Date

ARJ21-700B (Business, 中国商飞公务机) 是在ARJ21-700飞机客机构型基础上, 在生产线上直接贯彻了经CAAC批准的中国商飞AMI-00231公务机客舱设计更改的ARJ21-700飞机, 是ARJ21-700飞机的一种新构型, 不构成新型别。在本TCDS中和考虑适航指令适用性时, 这些飞机仍属于ARJ21-700飞机。

The ARJ21-700B (COMAC Business Jet) is an ARJ21-700 aircraft that directly implemented the design change COMAC AMI-00231 approved by CAAC on the production line based on the ARJ21-700 aircraft passenger cabin model. ARJ21-700B is a new configuration of ARJ21-700, but not a new model. These aircraft remain ARJ21-700 aircraft for documentation purposes on this TCDS and with regard to the applicability of airworthiness directives.

申请日期/Application Date: 2017年1月6日/Jan. 6, 2017

批准日期/Approval Date: 2024年7月12日/Jul. 12, 2024

2. 生产依据/ Production Basis

（本节没有提及的内容均与第一章第2节内容保持一致）

(Contents not mentioned below are identical to those of the Chapter I section 2)

3. 审定基础/ Certification Basis

（本节没有提及的内容均与第一章第3节内容保持一致）

(Contents not mentioned below are identical to those of the Chapter I section 3)

3.1 适航规章/Airworthiness standard

ARJ21-700 飞机公务机客舱设计更改为设计大改, 但不是重大更改。ARJ21-700 飞机公务机客舱设计更改适用的适航标准为 ARJ21-700 飞机取得型号合格证时的适航标准。

ARJ21-700 aircraft business jet cabin design change is a major design change, but it is not a significant design change. The airworthiness standards applicable to the cabin design change of ARJ21-700 business aircraft can be the airworthiness standards when the ARJ21-700 aircraft obtains the type certificate.

3.2 专用条件/ Special Conditions

第一章第3节所列的专用条件仍适用于 ARJ21-700B 设计大改。

The Special Conditions in Chapter I section 3 still apply to the ARJ21-700B major design change.

以下专用条件仅适用于 ARJ21-700B 设计大改:

The following Special Condition is only applicable to ARJ21-700B major design change:

- (1) SC-25-018 ARJ21-700 飞机公务机客舱设计更改项目设置私人休息区 (证后。发布日期: 2021 年 2 月 10 日)

SC-25-018 ARJ21-700 aircraft business jet cabin design change project to set up a private rest area (post-TC. Issued on Feb. 10, 2021)

3.3 等效安全水平/Equivalent Level of Safety Findings

第一章第 3 节所列的等效安全水平仍适用于 ARJ21-700B 设计大改。

The Equivalent Level of Safety Findings in Chapter I section 3 still apply to the ARJ21-700B major design change.

以下等效安全水平仅适用于 ARJ21-700B 设计大改:

The following Equivalent Level of Safety Findings are only applicable to ARJ21-700B major design change:

- (1) 问题纪要 A-16: 过道宽度和旅客区通路宽度/ Issue Paper A-16: Width of aisle and passenger areas passageway

§25.813, §25.815。

- (2) 问题纪要 EE-32: 直接观察/ Issue Paper E-32: Immediate Observation.

§25.785(h)(2)。

- (3) 问题纪要 E-34: CCAR25.812(b)(1)的等效安全/ Issue Paper E-34: ELOS of CCAR 25.812(b)(1).

§25.812(b)(1)。

3.4 豁免/Exemptions

第一章第 3 节所列的豁免仍适用于 ARJ21-700B 设计大改。

The Exemptions in Chapter I section 3 still apply to the ARJ21-700B major design change.

以下豁免仅适用于 ARJ21-700B 设计大改:

The following exemptions are only applicable to ARJ21-700B major design change:

- (1) E-011 ARJ21-700 飞机公务机客舱设计更改项目对 CCAR-25-R3 第 25.813(e)款要求的豁免 §25.813(e) (生效日期: 2021 年 2 月 10 日) (证后。豁免有效期: 长期)

E-011, Exemption for CCAR-25-R3 § 25.813(e) of ARJ21-700 business jet cabin design change, Issued on Feb. 10, 2021, § 25.813(e) (post-TC. Period of exemption: long-term)

- (2) E-012 ARJ21-700 飞机公务机客舱设计更改项目对 CCAR-25-R3 第 25.785(j)款要求的豁免 §25.785(j) (生效日期: 2021 年 2 月 10 日) (证后。豁免有效期: 长期)

E-012, Exemption for CCAR-25-R3 § 25.785(j) of ARJ21-700 business jet cabin design change, Issued on Feb. 10, 2021, §25.785(j) (post-TC. Period of exemption: long-term)

4. 技术特性和使用限制/Technical Characteristics and Operational Limitations

除下列条目更新外，第一章第 4 节所有技术特性和使用限制仍适用于 ARJ21-700B 设计大改：

The Technical characteristics and operational limitations in Chapter I section 4 still apply to the ARJ21-700B major design change, except for the following revised items:

4.1 发动机/Engines:

两台通用电气公司的涡轮风扇发动机；型别：CF34-10A16-B

（发动机型号合格证编号：E00070EN，型号认可证编号：VTC0210E，型号认可证数据单版次 7 或后续经批准版次）。

2 General Electric Turbofan Engines; Models: CF34-10A16-B (Engine Type Certificate No.:E00070EN., VTC No.: VTC0210E, the Validation Data Sheet Revision 7 or subsequent approved revision).

4.2 滑油和滑油容量/Oil and Oil Capacities:

符合 GE 规范 NO.D50TF1 的滑油。对每一批准的特殊滑油按照操作指南 GEK 112094 执行。
Oils in compliance with GE Specification NO.D50TF1. For each approved special oil, the operating instructions defined in the GEK 112094 should be followed.

GE CF34-10A16-B 发动机滑油箱滑油总容量 13.3 US 夸脱，其中可用滑油 12.7 US 夸脱。
Total oil tank capacity of GE CF34-10A16-B engine is 13.3 US quarts, usable oil is 12.7 US quarts.

4.3 最大客座数/Maximum Passengers:

13 座。

13 seats.

4.4 制造序号/Serial Numbers

下列序列号飞机为 ARJ21-700B:

110。

The following Serial Number Aircraft is ARJ21-700B:

110.

5. 批准的技术资料/Approved Technical Documents

第一章第 5 节所列的批准的技术资料仍适用于 ARJ21-700B 设计大改。

Approved Technical Documents showed in Chapter I section 5 still apply to the ARJ21-700B major design change.

6. 注释/Notes

第一章第 6 节所列的注释仍适用于 ARJ21-700B 设计大改。

Notes showed in Chapter I section 6 still apply to the ARJ21-700B major design change.

四、ARJ21-700M（设计大改/Major Design Change）

1. 产品型别和批准日期/Model and Approval Date

ARJ21-700M（Medical，中国商飞改装医疗机）是在ARJ21-700飞机（航线回购客机）基础上贯彻了经CAAC批准的中国商飞AMI-70002医疗机设计更改的飞机，是ARJ21-700飞机的一种新构型，不构成新型别。在本TCDS中和考虑适航指令适用性时，这些飞机仍属于ARJ21-700飞机。

The ARJ21-700M (COMAC Medical jet) is an ARJ21-700 airplane that has been modified from a repurchased airliner in accordance with CAAC approved COMAC AMI-70002 medical jet design change. ARJ21-700M is a new configuration of ARJ21-700, but not a new model. These aircraft remain ARJ21-700 aircraft for documentation purposes on this TCDS and with regard to the applicability of airworthiness directives.

申请日期/Application Date: 2021年6月21日/Jun. 21, 2021

批准日期/Approval Date: 2024年7月12日/Jul. 12, 2024

2. 生产依据/ Production Basis

（本节没有提及的内容均与第一章第2节内容保持一致）

(Contents not mentioned below are identical to those of the Chapter I section 2)

改装部分依据经CAAC批准的AMI-70002生产。

The modification is conducted under CAAC approved AMI-70002.

3. 审定基础/ Certification Basis

（本节没有提及的内容均与第一章第3节内容保持一致）

(Contents not mentioned below are identical to those of the Chapter I section 3)

3.1 适航规章/Airworthiness standard

ARJ21-700飞机医疗机设计更改为设计大改，但不是重大更改。ARJ21-700飞机医疗机设计更改适用的适航标准为ARJ21-700飞机取得型号合格证时的适航标准。

ARJ21-700 aircraft medical jet design change is a major design change, but it is not a significant design change. The airworthiness standards applicable to the cabin design change of ARJ21-700 medical aircraft can be the airworthiness standards when the ARJ21-700 aircraft obtains the type certificate.

3.2 专用条件/ Special Conditions

第一章第3节所列的专用条件仍适用于ARJ21-700M设计大改。

The Special Conditions in Chapter I section 3 still apply to the ARJ21-700M major design change.

以下专用条件仅适用于 ARJ21-700M 设计大改:

The following Special Condition is only applicable to ARJ21-700M major design change:

- (1) SC-25-050 ARJ21-700 型飞机（证后）应急救援或医疗转运的客舱布局（证后。发布日期：2022 年 12 月 28 日）

SC-25-050 Cabin layout of emergency rescue or medical transfer for ARJ21-700 aircraft (post TC) (post-TC. Issued on Dec. 28, 2022)

3.3 等效安全水平/Equivalent Level of Safety Findings

第一章第 3 节所列的等效安全水平仍适用于 ARJ21-700M 设计大改。

The Equivalent Level of Safety Findings in Chapter I section 3 still apply to the ARJ21-700M major design change.

3.4 豁免/Exemptions

第一章第 3 节所列的豁免仍适用于 ARJ21-700M 设计大改。

The Exemptions in Chapter I section 3 still apply to the ARJ21-700M major design change.

4. 技术特性和使用限制/Technical Characteristics and Operational Limitations

除下列条目更新外，第一章第 4 节所有技术特性和使用限制仍适用于 ARJ21-700M 设计大改：

The Technical characteristics and operational limitations in Chapter I section 4 still apply to the ARJ21-700M major design change, except for the following revised items:

4.1 发动机/Engines:

两台通用电气公司的涡轮风扇发动机；型别：CF34-10A16-B

（发动机型号合格证编号：E00070EN，型号认可证编号：VTC0210E，型号认可证数据单版次 7 或后续经批准版次）。

2 General Electric Turbofan Engines; Models: CF34-10A16-B (Engine Type Certificate No.:E00070EN., VTC No.: VTC0210E, the Validation Data Sheet Revision 7 or subsequent approved revision).

4.2 滑油和滑油容量/Oil and Oil Capacities:

符合 GE 规范 NO.D50TF1 的滑油。对每一批准的特殊滑油按照操作指南 GEK 112094 执行。

Oils in compliance with GE Specification NO.D50TF1. For each approved special oil, the operating instructions defined in the GEK 112094 should be followed.

GE CF34-10A16-B 发动机滑油箱滑油总容量 13.3 US 夸脱，其中可用滑油 12.7 US 夸脱。

Total oil tank capacity of GE CF34-10A16-B engine is 13.3 US quarts, usable oil is 12.7 US quarts.

4.3 最大客座数/Maximum Passengers:

26 座，依据担架配置最多可再携带 3 名人员。

26 Seats, Up to 3 additional personnel depending on stretcher configuration.

4.4 制造序号/Serial Numbers

下列序列号飞机为 ARJ21-700M:

111。

The following Serial Numbers Aircraft are ARJ21-700M:

111.

5. 批准的技术资料/Approved Technical Documents

第一章第 5 节所列的批准的技术资料仍适用于 ARJ21-700M 设计大改。

Approved Technical Documents showed in Chapter I section 5 still apply to the ARJ21-700M major design change.

6. 注释/Notes

第一章第 6 节所列的注释仍适用于 ARJ21-700M 设计大改。

Notes showed in Chapter I section 6 still apply to the ARJ21-700M major design change.

五、ARJ21-700E（设计大改/Major Design Change）

1. 产品型别和批准日期/Model and Approval Date

ARJ21-700E（Emergency，中国商飞改装应急救援指挥机）是在ARJ21-700飞机（航线回购客机）基础上贯彻了经CAAC批准的中国商飞AMI-70003应急救援指挥机设计更改的飞机，是ARJ21-700飞机的一种新构型，不构成新型别。在本TCDS中和考虑适航指令适用性时，这些飞机仍属于ARJ21-700飞机。

The ARJ21-700E (COMAC Emergency jet) is an ARJ21-700 airplane that has been modified from a repurchased airliner in accordance with CAAC approved COMAC AMI-70003 emergency jet design change. ARJ21-700E is a new configuration of ARJ21-700, but not a new model. These aircraft remain ARJ21-700 aircraft for documentation purposes on this TCDS and with regard to the applicability of airworthiness directives.

申请日期/Application Date: 2021年6月21日/Jun. 21, 2021

批准日期/Approval Date: 2024年7月12日/Jul. 12, 2024

2. 生产依据/ Production Basis

（本节没有提及的内容均与第一章第2节内容保持一致）

(Contents not mentioned below are identical to those of the Charter I section 2)

改装部分依据经CAAC批准的AMI-70003生产。

The modification is conducted under CAAC approved AMI-70003.

3. 审定基础/ Certification Basis

（本节没有提及的内容均与第一章第3节内容保持一致）

(Contents not mentioned below are identical to those of the Charter I section 3)

3.1 适航规章/Airworthiness standard

ARJ21-700飞机应急救援指挥机设计更改为设计大改，但不是重大更改。ARJ21-700飞机应急救援指挥机设计更改适用的适航标准为ARJ21-700飞机取得型号合格证时的适航标准。

ARJ21-700 aircraft emergency jet design change is a major design change, but it is not a significant design change. The airworthiness standards applicable to the cabin design change of ARJ21-700 emergency aircraft can be the airworthiness standards when the ARJ21-700 aircraft obtains the type certificate.

3.2 专用条件/ Special Conditions

第一章第3节所列的专用条件仍适用于ARJ21-700E设计大改。

The Special Conditions in Chapter I section 3 still apply to the ARJ21-700E major design change.

3.3 等效安全水平/Equivalent Level of Safety Findings

第一章第 3 节所列的等效安全水平仍适用于 ARJ21-700E 设计大改。

The Equivalent Level of Safety Findings in Chapter I section 3 still apply to the ARJ21-700E major design change.

以下等效安全水平仅适用于 ARJ21-700E 设计大改：

The following Equivalent Level of Safety Finding is only applicable to ARJ21-700E major design change:

- (1) ELOS-25-002: ARJ21-700 飞机对 25.1441(c)的等效安全水平结论/ELOS-25-002: ELOS
for 25.1441(c) of ARJ21-700
§25.1441(c).

3.4 豁免/Exemptions

第一章第 3 节所列的豁免仍适用于 ARJ21-700E 设计大改。

The Exemptions in Chapter I section 3 still apply to the ARJ21-700E major design change.

以下豁免仅适用于 ARJ21-700E 设计大改：

The following Exemption is only applicable to ARJ21-700E major design change:

- (1) E-018 ARJ21-700 飞机(证后)应急救援指挥机项目对 CCAR-25-R3 第 25.785(j)款牢固扶手要求的豁免 (证
后。发布日期：2024 年 1 月 24 日)
E-018 Exemption for CCAR-25-R3 25.785(j) for ARJ21-700E (post TC) (post-TC. Issued on Jan. 24,
2024)

4. 技术特性和使用限制/Technical Characteristics and Operational Limitations

除下列条目更新外，第一章第 4 节所有技术特性和使用限制仍适用于 ARJ21-700E 设计大改：

The Technical characteristics and operational limitations in Chapter I section 4 still apply to the ARJ21-700E major design change, except for the following revised items:

4.1 发动机/Engines:

两台通用电气公司的涡轮风扇发动机；型别：CF34-10A16-B

（发动机型号合格证编号：E00070EN，型号认可证编号：VTC0210E，型号认可证数据单版次 7 或后续经批准版次）。

2 General Electric Turbofan Engines; Models: CF34-10A16-B (Engine Type Certificate No.:E00070EN., VTC No.: VTC0210E, the Validation Data Sheet Revision 7 or subsequent approved revision).

4.2 滑油和滑油容量/Oil and Oil Capacities:

符合 GE 规范 NO.D50TF1 的滑油。对每一批准的特殊滑油按照操作指南 GEK 112094 执行。
Oils in compliance with GE Specification NO.D50TF1. For each approved special oil, the operating instructions defined in the GEK 112094 should be followed.
GE CF34-10A16-B 发动机滑油箱滑油总容量 13.3 US 夸脱, 其中可用滑油 12.7 US 夸脱。
Total oil tank capacity of GE CF34-10A16-B engine is 13.3 US quarts, usable oil is 12.7 US quarts.

4.3 最大客座数/Maximum Passengers:

28 座

28 Seats.

4.4 制造序号/Serial Numbers

下列序列号飞机为 ARJ21-700E:

124.

The following Serial Numbers Aircraft are ARJ21-700E:

124.

5. 批准的技术资料/Approved Technical Documents

第一章第 5 节所列的批准的技术资料仍适用于 ARJ21-700E 设计大改。

Approved Technical Documents showed in Chapter I section 5 still apply to the ARJ21-700E major design change.

6. 注释/Notes

第一章第 6 节所列的注释仍适用于 ARJ21-700E 设计大改。

Notes showed in Chapter I section 6 still apply to the ARJ21-700E major design change.

管理信息 / Administrative Information

型号持有人记录 / Type Certificate Holder Record

中国商用飞机有限责任公司，中国上海市张杨路 25 号 200120。
The Commercial Aircraft Corporation of China, Ltd. No. 25, Zhangyang Road, Shanghai, China, 200120.

型号合格证数据单版次信息以及修订记录/Revision and Change Record of the Type Certificate Data Sheet

数据单版次信息/Revision of the Type Certificate Data Sheet

	数据单编号、版次和颁发日期 Type Certificate Data Sheet Number, Revision and issuance date
当前 Current	No.TC0023A，版次8/Rev 8, 2024年8月30日 No. TC0023A; Revision 8, Date of Issue: 2024-8-30
历史 History	No.TC0023A，版次7/Rev 7, 2024年7月19日 No. TC0023A; Revision 7, Date of Issue: 2024-7-19
历史 History	No.TC0023A，版次6/Rev 6, 2024年7月12日 No. TC0023A; Revision 6, Date of Issue: 2024-7-12
历史 History	No.TC0023A，版次5/Rev 5, 2023年6月26日 No. TC0023A; Revision 5, Date of Issue: 2023-6-26
历史 History	No.TC0023A，版次4/Rev4, 2022年6月13日 No. TC0023A; Revision 4, Date of Issue: 2022-6-13
历史 History	No.TC0023A，版次3/Rev3, 2018年3月30日 No. TC0023A; Revision 3, Date of Issue: 2018-3-30
历史 History	No.TC0023A，版次2/Rev 2, 2017年12月25日 No. TC0023A; Revision2, Date of Issue: 2017-12-25
历史 History	No.TC0023A，版次1/Rev 1, 2015年11月20日 No. TC0023A; Revision2, Date of Issue: 2015-11-20
历史 History	No.TC0023A，版次0/Rev0, 2014年12月29日 No. TC0023A; Revision2, Date of Issue: 2014-12-29

数据单修订记录/ Change Record of the Type Certificate Data Sheet

版次/Revision	相对上一版的修订记录 Change Record	备注 Note
版次 8/Rev 8	1. 第五章“审定基础”增加 1 份等效安全水平 ELOS-25-002。 Add 1 IP ELOS-25-002 in Chapter V. 2. 第一章更新 971JB002 《ARJ21-700 飞机设计构型报告》的版次 Update the revision of 971JB002 <ARJ21-700 Aircraft Design Configuration Report> 3. 更新制造序号 Update Serial Numbers 4. 更新 TP700009 《ARJ21-700 飞机重量平衡手册》的版次 Update the revision of TP700009 <ARJ21-700 Airplane Weight and Balance Manual> 5. 更新 TP700008 《ARJ21-700 飞机结构修理手册》的版次	

版次/Revision	相对上一版的修订记录 Change Record	备注 Note
	Update the revision of TP700008 <ARJ21-700 Airplane Structural Repair Manual>	
版次 7/Rev 7	1. 第一章“燃油”更改为“满足国标 GB6537 要求的燃油”。 Update the ‘Fuel’ for Fuels in compliance with the GB6537 in Chapter I. 2. 第一章“最大重量”增加最大零油重量 34700kg。 Add the Maximum Zero Fuel Weight 34700 kg of ‘Maximum Weight’ in Chapter I. 3. “滑油和滑油容量”部分，根据适用的发动机型别情况，相应增加针对 CF34-10A16-B, CF34-10A16-C, CF34-10A16-D 型别的说明。 Add engine model information of CF34-10A16-B, CF34-10A16-C, CF34-10A16-D in ‘Oil and Oil Capacities’ sections.	
版次 6/Rev 6	6. 第一章新增专用条件 SC-25-047 Add SC-25-047 in Chapter I 7. 第一章更新等效安全水平 M-30 名称 Update name of ELOS M-30 in Chapter I 8. 第一章新增豁免 E-015 Add exemption of E-015 in Chapter I 9. 第一章发动机型别增加 CF34-10A16-C, CF34-10A16-D Update model CF34-10A16-C and CF34-10A16-D in Chapter I 10. 第一章更新发动机型号认可证数据单版次描述 Update description of the revision of engine VTCDS in Chapter I 11. 第一章更新 971JB002 《ARJ21-700 飞机设计构型报告》的版次 Update the revision of 971JB002 <ARJ21-700 Aircraft Design Configuration Report> 12. 第一章更新最大客座数术语描述 Update Chinese Translation of Maximum passengers in Chapter I 13. 第一章更新起飞和着陆的最大气压高度 Update Maximum Taking Off or Landing Pressure Altitude in Chapter I 14. 更新 971HZ2006 《ARJ21-700 飞机取证构型装机设备清册》的版次 Update the revision of 971HZ2006<ARJ21-700 Aircraft TC configuration equipment list> 15. 更新制造序号 Update Serial Numbers 16. 更新 TP700100 《ARJ21-700 飞机飞行手册》的版次 Update the revision of TP700100 <ARJ21-700 Airplane Flight Manual> 17. 更新编号 TP700009 《ARJ21-700 飞机重量平衡手册》的版次 Update the revision of TP700009 <ARJ21-700 Airplane Weight and Balance Manual> 18. 更新 TP700045 《ARJ21-700 适航限制部分》的版次 Update the revision of TP700045 <ARJ21-700 Airworthiness Limitation Section> 19. 更新 TP700008 《ARJ21-700 飞机结构修理手册》的版次 Update the revision of TP700045 <ARJ21-700 Airplane Structural Repair	

版次/Revision	相对上一版的修订记录 Change Record	备注 Note
	Manual> 20. 第二章中增加 SC-25-047 不适用于客改货说明 Add SC-25-047 Not Applicable for ARJ21-700CCF Chapter II 21. 第二章中增加客改货发动机型别说明 Add Engines for ARJ21-700CCF in Chapter II 22. 增加第三章 ARJ21-700B 设计大改相关信息 Add Chapter III, including information related to ARJ21-700B major design change. 23. 增加第四章 ARJ21-700M 设计大改相关信息 Add Chapter IV, including information related to ARJ21-700M major design change. 24. 增加第五章 ARJ21-700E 设计大改相关信息 Add Chapter V, including information related to ARJ21-700E major design change.	
版次 5/Rev 5	25. 更新“等效安全”为“等效安全水平”； Update Chinese Translation of ELOS 26. 更新 971JB002《ARJ21-700 飞机设计构型报告》的版次 Update the revision of 971JB002 <ARJ21-700 Aircraft Design Configuration Report> 27. 更新“水平测量措施”为“定水平措施” Update Chinese Translation of Leveling Means 28. 更新 971HZ2006《ARJ21-700 飞机取证构型装机设备清册》的版次 Update the revision of 971HZ2006<ARJ21-700 Aircraft TC configuration equipment list> 29. 更新制造序号 Update Serial Numbers 30. 更新 TP700100《ARJ21-700 飞机飞行手册》的版次 Update the revision of TP700100 <ARJ21-700 Airplane Flight Manual> 31. 更新 TP700009《ARJ21-700 飞机重量平衡手册》的版次 Update the revision of TP700009 <ARJ21-700 Airplane Weight and Balance Manual> 32. 更新 TP700045《ARJ21-700 适航限制部分》的版次 Update the revision of TP700045 <ARJ21-700 Airworthiness Limitation Section> 33. 更新 TP700008《ARJ21-700 飞机结构修理手册》的版次 Update the revision of TP700008 <ARJ21-700 Airplane Structural Repair Manual> 34. 增加第二章 ARJ21-700CCF 重大设计更改相关信息 Add Chapter II, including information related to ARJ21-700CCF significant design change.	
版次 4/Rev 4	1. 新增 4 项等效安全 M-30、A-14、A-17、F-15，删除等效安全 F-007 Add four ELOS Issue Paper M-30, A-14, A-17, F-15, delete ELOS F-007 2. 更新豁免 E-003《关于燃油箱可燃性要求临时豁免》的版次和豁免有效期 Update the revision and period of exemption of Exemptions E-003	

版次/Revision	相对上一版的修订记录 Change Record	备注 Note
	<Temporary Exemption for Fuel Tank Flammability Requirement> 3. 更新制造序号 Update Serial Numbers 4. 更新 971JB002 《ARJ21-700 飞机设计构型报告》的版次 Update the revision of 971JB002 <ARJ21-700 Aircraft Design Configuration Report> 5. 更新定水平措施的描述 Update the description of Leveling Means 6. 更新最大客座数 Update Maximum Passengers 7. 增加注释 7 和注释 8, 删除原注释 3, 其他注释序号适应性更改 Add NOTE 7 and NOTE 8, Delete original NOTE 3, change the serial numbers of other NOTES.	
版次 3/Rev 3	1. 新增 1 项等效安全, 问题纪要 EE-30 Add ELOS Issue Paper EE-30 2. 更新 971JB002 《ARJ21-700 飞机设计构型报告》的版次 Update the revision of 971JB002 <ARJ21-700 Aircraft Design Configuration Report> 3. 最大重量的表格更新最大零油重量 Update Maximum zero fuel weight 4. 更新制造序号 Update Serial Numbers 5. 更新 971HZ2006 《ARJ21-700 飞机取证构型装机设备清册》的版次 Update the revision of 971HZ2006<ARJ21-700 Aircraft TC configuration equipment list>	
版次 2/Rev 2	1. 新增生产许可证及编号 Add Production Certificate 2. 更新 971JB002 《ARJ21-700 飞机设计构型报告》的版次 Update the revision of 971JB002 <ARJ21-700 Aircraft Design Configuration Report> 3. 更新起飞和着陆最大气压高度 Update Maximum Taking Off or Landing Pressure Altitude 4. 更新制造序号 Update Serial Numbers 5. 更新 971HZ2006 《ARJ21-700 飞机取证构型装机设备清册》的版次 Update the revision of 971HZ2006<ARJ21-700 Aircraft TC configuration equipment list> 6. 新增注释 6 和注释 7 Add NOTE 6 and NOTE 7	
版次 1/Rev 1	1. 更改特殊燃油按照操作指南编号 Change special fuel operating instructions number 2. 更新制造序号 Update Serial Numbers 3. 新增新版本 ARJ21-700 飞机飞行手册	

版次/Revision	相对上一版的修订记录 Change Record	备注 Note
	Add a new version of ARJ21-700 Aircraft Flight Manual 4. 更新注释 3 Update NOTE 3 5. 新增注释 5 Add NOTE 5	

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----END----