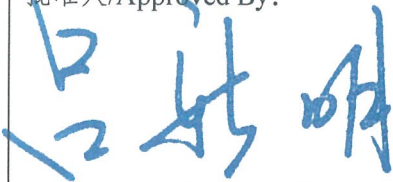


中国民用航空局
CIVIL AVIATION ADMINISTRATION OF CHINA

型号合格证数据单
TYPE CERTIFICATE DATA SHEET

编号/No:	TC0037A-HD
版本/Revision:	0
型别/ Model:	AeroJones CTLS
批准人/Approved By:	
日期/Date:	2019 年 07 月 12 日

本数据单是型号合格证（编号：TC0037A-HD）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: TC0037A-HD), 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:

威翔航空科技（厦门）有限公司

AeroJones Aviation Technology (Xiamen) Co., Ltd.

中国福建省厦门市现代物流园区港中路经保综合楼 411 单元

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Logistics park, Xiamen, Fujian, China

版本/Revision	0	0	0	0	0	0	0	0	0	0	0	0	0
有效页/Effective Page	1	2	3	4	-	-	-	-	-	-	-	-	-

一、 产品型别和批准日期/THE PRODUCT MODEL AND APPROVAL DATE

飞机型别/Model	类别/Category	批准日期 Approval Date
AeroJones CTLS	LSA 轻型运动类	2019 年 07 月 12 日

二、合格审定基础和生产依据/CERTIFICATION BASIS AND PRODUCTION BASIS

(1) 型号合格审定基础/Type Certification Basis

- (a) 适航要求 / Airworthiness Standards:
CCAR-21-R4 第 21.26, AC-21-AA-2015-25R1

注: 按照 AC-21-AA-2015-25R1 的定义, 使用第 6.2 节中列出的适用的美国试验和材料协会 (ASTM) 标准作为审定基础。

Note: According to AC-21-AA-2015-25R1, use the applicable ASTM standards listed in Section 6.2 as the certification basis.

ASTM F2245-16c 轻型运动类飞机设计和性能标准规范/ Standard Specification for Design and Performance of a Light Sport Airplane

ASTM F2483-12 轻型运动类飞机维修和维修手册编制标准措施/ Standard Practice for Maintenance and the Development of Maintenance Manuals for Light Sport Aircraft

ASTM F2339-06(2009) 轻型运动类航空器火花塞点火活塞发动机设计和制造标准措施/ Standard Practice for Design and Manufacture of Reciprocating Spark Ignition Engines for Light Sport Aircraft

ASTM F2746-14 轻型运动类飞机飞行员操作手册标准规范/ Standard Specification for Pilot's Operating Handbook (POH) for Light Sport Airplane

ASTM F2506-13 轻型运动类飞机航空器定距及地面可调桨距螺旋桨设计/ Standard Specification for Design and Testing of Light Sport Aircraft Propellers

ASTM F2316-12(2014) 轻型运动类飞机机身应急降落伞标准规范/ Standard Specification for Airframe Emergency Parachutes

- (b) 专用条件 / Special Conditions:
无 / None
- (c) 等效安全/ Equivalent Safety Findings:
无 / None
- (d) 环境要求 / Environmental Standards:
无 / None
- (e) 豁免/Exemptions:
无/ None

(2) 生产依据/ Production Basis

物料清单 / Bill of Materials (BoM): BF 0110 0004_20, and later approved revisions

(R20 及后续经批准的版本)

三、技术特性和使用限制/TECHNICAL CHARACTERISTICS AND OPERATIONAL LIMITATIONS

1. 型号设计定义 / Type Design Definition:
主文件清单 /MDL, AF 0100 0013_22, and later approved revisions (R22 及后续经批准的版本)
2. 描述 / Description:
AeroJones CTLS 型轻型运动航空器是一款整机复合材料结构、单发、上单翼、并排双人座、双套机械式控制、全动式水平尾翼和固定式前三点式起落架的飞机, 前轮可转向, 搭载一台 Rotax 912 ULS2-01 自然吸气发动机。

The AeroJones CTLS is a single-engine, high wing, composite, LSA aircraft with 2 seats in side-by-side configuration. It has mechanical dual controls, a cruciform tail with a (all moving) stabilator, and a fixed tricycle gear with steerable nose wheel. The model AeroJones CTLS is equipped with a naturally aspirated engine.

3. 设备 / Equipment:
最低设备清单参见下列文件的第 2.11 章
a) 飞行员操作手册(POH), AF 0430 0034_20, 及后续经批准的版本
b) 和相关的飞机操作指导补充版 POH, 及后续经批准的版本
- Minimum Equipment list according to chapter 2.11 of
a) the Pilot Operating Handbook (POH), AF 0430 0034_20 (Rev 20, and later approved revisions) and
b) other applicable supplements to the POH, and later approved revisions.
4. 尺寸 / Dimensions:
a) 翼展 / Span: 8.6 m
b) 全长 / Length: 6.6 m
c) 机翼面积 / Wing area: 10 m²
5. 发动机 / Engine:
ROTAX 912 ULS2-01 四冲程、四水平对卧汽缸、双火花塞化油器, 最大转速 5800 rpm, 最大输出功率 73.5kW, 满足 ASTM F2339-06 的要求。
4-stroke, 4 cylinder horizontally opposed, naturally aspirated piston engine with dual spark ignition and 73,5 kW MTOP @ 5800 rpm, compliant with ASTM F2339-06.
6. 螺旋桨 / Propeller:
Neuform CR3-65-(IP)-47-101.6
1 副三叶复合材料螺旋桨, 地面可调桨距, 满足 ASTM F2506-13 要求。
3-blade, ground adjustable, composite propeller, compliant with ASTM F2506-13.
7. 燃油容量 / Fuel Quantity:
a) 总量 / total: 130 升(liter).
b) 可用 / usable: 126 升(liter).
8. 空速 / Operational Air Speeds:
a) 设计机动速度 / Operating Maneuvering Speed V_O: 95 kt (176 km/h) IAS @ MTOW
b) 襟翼可展开速度 / Flap extended Speeds V_{FE}:
105 kt (195 km/h) IAS @ 0° flaps
80 kt (148 km/h) IAS @ 15° flaps
62 kt (115 km/h) IAS @ 30° flaps
62 kt (115 km/h) IAS @ 35° flaps
c) 设计巡航速度 / Design Cruise Speed V_C: 120 kt (222 km/h) IAS
d) 不可超越速度 / Never Exceed Speed V_{NE}: 145 kt (269 km/h) IAS
9. 操作能力与限制 Operational Capabilities and Limitations:
(a) 飞机设备构型允许白天及夜晚目视飞行规则运行(如果选装夜晚飞行装备)/
Certified for VFR day & night (if sufficient NVFR-equipment is installed).
(b) 禁止在已知或预报结冰条件下飞行/
Flights into known or forecasted icing conditions are prohibited.
(c) 禁止特技飞行动作 / Not certified for aerobatic maneuvers.
(d) 禁止蓄意螺旋 / Not certified for intentional spinning.
10. 最大重量 / Maximum Masses:
a) 最大起飞重量 / Max. take-off mass: 600 (公斤) kg
b) 最大零机翼油量负载重量 / Max. zero wing fuel mass: 591 (公斤) kg
c) 每一座位最大乘载重量 / Max. mass per seat: 120 (公斤) kg
11. 重心范围 / Center of Gravity Range:
a) 重心范围 / CG-Range: 330 毫米(mm) – 420 毫米(mm)
(28,2% MAC – 35,9% MAC)
MAC 1170 mm / 平均气动弦 1170 毫米(mm)

- b) 参考点 / Datum: 机翼前缘(直角处) /
Leading edge of the (rectangular) wing.
- c) 水平量测方法/ Leveling Means: 座舱中央纵向结构上表面水平位置/
upper side of the tunnel inside cabin is horizontal
12. 襟翼角度 / Flap deflections
襟翼角度为-6°至+35°
Flap deflections -6° through +35°
13. 最小飞机机组 / Minimum Flight Crew:
1 位(飞行员) / 1 (Pilot)
14. 最大乘客座椅容量 / Maximum Passenger Seating Capacity:
1 位(客座) / 1 (Passenger)
15. 行李/货舱// Baggage and Cargo Compartments:
a) 行李舱 / Baggage Compartment: 共两个, 每个最大载荷 25 公斤(总共 50 公斤) /
max. 25 kg per side (50 kg in total)
b) 座椅后置物架 / Hat Rack: 共两个, 每个最大载荷 2.5 公斤(总共 5 公斤) /
max. 2.5 kg per side (5 kg in total)
c) 脚踏板置物区 / Floor Cabinet: 共两个, 每个最大载荷 2.5 公斤(总共 5 公斤) /
max. 2.5 kg per side (5 kg in total)
16. 部件使用时间 / Lifetime Limitations:
部件使用时间依据维护手册 MM AF 0480 0015_20, 及后续经批准的版本 /
Lifetime limitations according to MM AF 0480 0015_20, and later approved revisions.

四、批准的持续适航手册/APPROVED MANUALS

- (1) 飞行员操作手册(POH), AF 0430 0034_20, 及后续经批准的版本
Pilot Operating Handbook (POH), AF 0430 0034_20, and later approved revisions.
- (2) 飞行员操作手册 S1 补充版“轻型运动飞机持续运行安全报告”,
AZ 0430 0014_20 及后续经批准的版本/
POH supplement S1 “Continued Operational Safety Reporting on LSA Airplanes”, AZ 0430 0014_20, and later approved revisions.
- (3) 飞行员操作手册 S6 补充版 (供选) “Dynon D100/D120(180) 玻璃驾驶舱”: AZ 0430 0016_20 及后续经批准的版本/ POH supplement S6 (optional) “Dynon D100/D120(180) Glass Cockpit”, AZ 0430 0016_20, and later approved revisions.
- (4) 飞行员操作手册 S7 补充版(选项)“Dynon Sky View 玻璃驾驶舱”, AZ 0430 0013_20 及后续经批准的版本 / POH supplement S7 (optional) “Dynon Sky View Glass Cockpit”, AZ 0430 0013_20, and later approved revisions.
- (5) 维护手册, AF 0480 0015_20 及后续经批准的版本/ Maintenance Manual (MM), AF 0480 0015_20, and later approved revisions.

— 结 束 —

— THE END—