编号/No: TC0080A
版次/Revision: 1
型别/Model: AG100
批准人/Approved By:
职务/Title: 副司长
日期/Date: 2025年09月16日

型号合格证数据单

TYPE CERTIFICATE DATA SHEET

本数据单是型号合格证（编号：TC0080A ）的组成部分，它规定了获得该型号合格证的产品满足中国民用航空规章相关适航要求的条件和限制。

This data sheet, which is part of Type Certificate (No: TC0080A), 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:

浙江中航通飞研究院有限公司

浙江省雷甸镇通用航空产业园启航路（莫干山国家高新区），313200。

Zhejiang China Aviation Industry General Aircraft Institute Co.,Ltd

General Aviation Industrial Park,Leidian Town,Zhejiang Province(Mogan National High-tech Zone), 313200.

第一部分: AG100 型别技术数据/ SECTION A: Model AG100 TECHNICAL DATA

A I. 概述/General

1. 产品型别/Model: AG100
2. 类别/Category: 正常类飞机/Normal Category Airplane
3. 型号合格证申请日期/Type Certificate Application Date: 2018年7月10日/ July 10, 2018
4. 型号合格证批准日期/ Type Certificate Approval Date: 2023年11月10日/ November 10, 2023

A II. 生产依据/Production Basis

生产许可证编号/ Production Certificate No.: PC0073A-HD

A III. 审定基础/Certification Basis

1. 适航规章/Airworthiness Standard

《正常类、实用类、特技类和通勤类飞机适航规定》（CCAR-23-R3）/ Airworthiness Standards: Normal, Utility, Acrobatic, and Commuter Category Airplanes (CCAR-23-R3)

《正常类飞机适航规定》（CCAR-23-R4）中第23.2515条电子和电气系统闪电防护，第23.2520条高强辐射场（HIRF）防护 / Airworthiness Standards: Normal Category Airplanes (CCAR-23-R4): §23.2515 Electrical and electronic system lightning protection, §23.2520 High-intensity Radiated Fields (HIRF) protection

AG100-MOD-001 “AG100 型飞机增加座位数”的审定基础见注释2 / Certification Basis for AG100-MOD-001 “Maximum seating capacity increase for AG100” see Note 2.

2. 环境保护要求/Environmental protection requirements

《航空器型号和适航合格审定噪声规定》（CCAR-36-R2）/ Noise Standards: Aircraft Type and Airworthiness Certification (CCAR-36-R2)

3.专用条件/Special Conditions:

(1) SC-23-14 AG100 型飞机伞降系统，2023年5月25日 / SC-23-14 Airframe Parachute System of AG100, May 25, 2023

(2) SC-23-15 AG100 型飞机螺旋桨的安装，2023年5月25日 / SC-23-15 Propeller installation of AG100, May 25, 2023

(3) SC-23-16 AG100 型飞机发动机电子控制，2023年5月25日 / SC-23-16 Electronic Engine Control (EEC) System of AG100, May 25, 2023

4. 等效安全水平/Equivalent Levels of Safety (ELOS):

(1) 问题纪要 P-3: 燃油泵驱动等效安全水平，2022年11月25日 / Issue Paper P-3 Fuel Pump Driven ELOS, Nov 25, 2022

(2) 问题纪要 P-4: 功率杆等效安全水平，2022年11月25日 / Issue Paper P-4: Power Lever ELOS, Nov 25, 2022

(3) 问题纪要 P-5: 冷却液箱等效安全水平，2023年5月9日 / Issue Paper P-5: Coolant Tank ELOS, May 9, 2023

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

型号设计定义/ Type Design Definition:

《AG100型飞机型号设计定义》（EC0000908 A版及后续经批准的版本）/ AG100 Aircraft Type Design Definition (EC0000908 Version A and subsequent approved revisions)

发动机/Engine:

1台奥地利BRP-Rotax GmbH & Co KG公司生产的Rotax 915 iSc3 C24 活塞发动机/

The single piston engine, Rotax 915 iSc3 C24, manufactured by BRP-Rotax GmbH & Co KG, Austria

CAAC 型号认可证号/ CAAC VTC No.: VTC139E

发动机额定值/Engine Ratings:

最大起飞功率(5分钟)/Max. Take off Power (5 min): 104 kw (139.5 HP)@5800 rpm

最大连续功率/Max.Continuous Power: 99 kW (133 HP)@5500 rpm

发动机限制/Engine Limits:

温度限制/Temperature Limits:

冷却液温度/Coolant temperature: 120℃ (248℉)

进口滑油温度/Oil temperature at inlet: 130℃ (266℉)

转速限制/Speed Limits:

起飞速度，最大5分钟/Take-off Speed, Max. 5 min: 5800 rpm

最大连续转速/Max. continuous speed: 5500 rpm

压力限制/Pressure Limits:

燃油压力/Fuel Pressure: 2.9~3.2 bar (42.00~46.41 psi)

滑油压力/Oil Pressure:

正常工作范围高于3500 rpm/ Normal operating range above 3500 rpm:	2.0~5.0 bar (29~72.5 psi)
最低低于3500 rpm/Minimum below 3500 rpm	0.8 bar (11.6 psi)

在冷起动和预热期（最大）/
At cold start and warming up period (maximum): 7.0 bar (101.5 psi)

螺旋桨/Propeller:

1副德国MT-Propeller Entwicklung GmbH 公司生产的2叶恒速螺旋桨/

One (1) MT-Propeller Entwicklung GmbH, Germany, two-blade, constant speed propeller

型号/Type: MTV-21-A/195-80

CAAC型号认可证号/ CAAC VTC No.: VTC0228P

螺旋桨限制/Propeller Limits:

最大连续功率/Max. Continuous Power: 104 kW (139.5 HP)

最大连续转速/Max. Continuous Speed: 2279 rpm

最大直径/Max. Diameter: 195.5 cm (76.97 inches)

最小直径/Min. Diameter: 194.5 cm (76.57 inches)

低桨距/Low Pitch: 13° +/-0.2°

高桨距/High Pitch: 34° +/-1.0°

燃油/Fuel:

燃油等级:100LL航空级燃油/Fuel Grade: 100LL Minimum Grade Aviation Grade Fuel

燃油容量/Fuel Capacity:

总计/ Total : 35.75 US gal (135.3 L)

可用燃油/ Usable: 33.5 US gal (126.8 L)

不可用燃油/Unusable: 2.25 US gal (8.5 L)

滑油容量/Oil Capacity:

4.19 U.S. Quarts (3.97 L)

批准的滑油见飞机飞行手册（EC0000518）/

Refer to the Airplane Flight Manual (EC0000518) for approved oils

空速限制/Airspeed Limits:

V_{NE}	不可超越速度/ Never Exceed Speed	179 KIAS
V_{NO}	最大结构巡航速度/Maximum Structural Cruising Speed	139 KIAS
V_{O}	使用机动速度/Operating Maneuvering	125 KIAS
V_{FE}	最大襟翼(50%)放下速度/Maximum Flap Extension Speed (50%)	115 KIAS
V_{FE}	最大襟翼(100%)放下速度/Maximum Flap Extension Speed (100%)	105 KIAS
V_{PD}	最大开伞速度/Maximum Parachute Deployment Speed	138 KIAS

最大重量/Maximum Weight:

最大起飞重量/Maximum Takeoff Gross Weight: 2150 lb (975 kg)

重心范围/Center of Gravity (C.G.) Range:

重心包线/CG Envelope	重量/Weight	站位/FS
小重量前重心/Forward Light	1600 lb (725.7 kg)	42.7 Inches (1084.6 mm)
小重量后重心/After Light	1600 lb (725.7 kg)	47.5 Inches (1206.5 mm)
中间重量前重心/Forward Intermediate	1900 lb (861.8 kg)	42.7 Inches (1084.6 mm)
中间重量后重心/After Intermediate	1900 lb (861.8 kg)	48.8 Inches (1239.5 mm)
大重量前重心/Forward Gross	2150 lb (975 kg)	44.4 Inches (1127.8 mm)
大重量后重心/After Gross	2150 lb (975 kg)	48.8 Inches (1239.5 mm)

测量基准/Datum:

机身0站位，位于防火墙处/The fuselage station Zero (FS 0.0) is located at the firewall

水平测量措施/Leveling Means:

两个前部调平点位于发动机整流罩两侧，一个后部调平点位于水平安定面下方。使用悬挂在调平点的标尺和水准仪确定飞机的在地面姿态。

Two forward leveling points are located on either side of the cowl. One aft point is located below the horizontal stabilizer. Scale suspended from the leveling points are used in conjunction with a transit level to determine ground attitude.

最小飞行机组/Minimum Crew: 1名驾驶员/One (1) Pilot

座位数/Number of Seats: 最大3个座位/Three (3) maximum

最大运行高度: 平均海平面14000 英尺(4267米)/ Maximum Operating Altitude: 14,000 ft (4267 m) MSL

操纵面运动范围/Control Surface Movements:

副翼/Aileron	向上Up 20.7°± 1.0°	向下 Down 14.6°±1.0°
升降舵/Elevator	向上 Up 22.5°± 0.5°	向下 Down 17.5°± 1.0°
升降舵调整片/Elevator Trim	向上 Up 12.5°± 1.0°	向下 Down 17.5°± 2.0°
方向舵/Rudder	右偏 Right 22.5°± 1.0°	左偏 Left 17.5°± 1.0°
襟翼/Flaps	收上Up 0°± 0.5°	向下 Down 50% 15.0°± 1.0°
		向下Down 100% 32.0°± 0.5°

运行限制/Operational Limits:

允许昼夜目视飞行和昼夜仪表飞行/ Approved for day and night VFR&IFR

禁止在已知结冰条件下飞行/ Flight into known icing conditions is prohibited

禁止特技和尾旋飞行/ Acrobatic maneuvers and spins are prohibited

设备/Equipment:

适航法规（见审定基础）规定的基本设备必须安装在飞机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

Certification Basis) must be installed in the aircraft to meet the requirements of type certification.

A V. 批准的技术资料/Approved Technical Documents

型别	已批准出版物
AG100	(1)飞机飞行手册 EC0000518，初版及后续经批准的版本。 / Airplane Flight Manual, EC0000518, Original Issue and subsequent approved revisions. (2)飞机维修手册 EC0000517第04章-适航限制，2023年8月25日版及后续经批准的版本。 / Chapter 04, Airworthiness Limitations in Airplane Maintenance Manual, EC0000517, Rev.25 Aug.2023 and subsequent approved revisions.

A VI. 注释/Notes

注释/NOTE 1: 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/NOTE2: 对于型号设计更改AG100-MOD-001 “AG100 型飞机增加座位数”的审定基础为:

《正常类飞机适航规定》（CCAR-23-R4）中第23.2230条限制和极限载荷，第23.2235条结构强度，第23.2260条材料和工艺(a)(b)(c)(d)，第23.2265条特殊安全系数，第23.2270条应急条件(a)(b)(c)(d)，第23.2315条撤离设施和应急出口(a)，第23.2620条飞机飞行手册，第23.2625条持续适航文件(a)。

Certification Basis for AG100-MOD-001 “Maximum seating capacity increase for AG100” :

Airworthiness Standards: Normal Category Airplanes (CCAR-23-R4): §23.2230 Limit and ultimate loads, §23.2235 Structural strength, §23.2260(a)(b)(c)(d) Materials and processes, §23.2265 Special factors of safety, §23.2270 (a)(b)(c)(d) Emergency conditions, §23.2315 (a) Means of egress and emergency exits, §23.2620 Airplane flight manual, §23.2625 (a) Instructions for continued airworthiness

第二部分：管理信息/SECTION B: ADMINISTRATIVE INFORMATION

B I.型号合格证持有人记录/ Type Certificate Holder Record

浙江中航通飞研究院有限公司

浙江省雷甸镇通用航空产业园启航路（莫干山国家高新区）

Zhejiang China Aviation Industry General Aircraft Institute Co.,Ltd

General Aviation Industrial Park,Leidian Town,Zhejiang Province(Mogan National High-tech Zone)

B II.修订记录/ Change Record

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 Issue date
当前 Current	No.TC0080A，版次1，2025年09月16日 No.TC0080A, Revision 1, September 16, 2025
历史 History	No.TC0080A，版次0，2023年11月10日 No.TC0080A, Revision 0, November 10, 2023

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

版次/Revision	修订内容/Content	备注/Remark
版次/Revision 1	1. 增加生产许可证编号 / Add Production Certificate Number 2. 为AG100-MOD-001 “AG100 型飞机增加座位数”设计更改增加审定基础：CCAR-23-R4 23.2230，23.2235，23.2260(a)(b)(c)(d)，23.2265，23.2270(a)(b)(c)(d)，23.2315(a)，23.2620，23.2625(a)。/ Add CCAR-23-R4 23.2230, 23.2235, 23.2260(a)(b)(c)(d), 23.2265, 23.2270(a)(b)(c)(d), 23.2315(a), 23.2620, 23.2625(a) into Certification Basis because AG100-MOD-001 “Maximum seating capacity increase for AG100” is performed. 3. 完成AG100-MOD-001 “AG100 型飞机增加座位数”设计更改，最大座位数由2个修订到3个。 / Revise the Max Number of Seats from 2 to 3 because AG100-MOD-001 “Maximum seating capacity increase for AG100” is performed.	

—完—

—END—