

型号认可证数据单

THE VALIDATION DATA SHEET

编号/No: VTC135A
版次/Revision: 1
型号/Type:
GULFSTREAM 200

日期/Date: 2006.08.14

本数据单是型号认可证（编号：VTC135A）的组成部分，它规定了符合中国民用航空总局的适航要求所颁发此型号认可证的产品状态和限制。

This data sheet, which is part of **Validation of Type Certificate (No: VTC135A)**, 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.

型号认可证持有人/Validation of Type Certificate Holder:

Gulfstream Aerospace LP

C/o Israel Aircraft Industries, LTD., Department 4199

Ben Gurion International Airport

70100, Israel

版次/Revision 1		1	1	1	1	1	1	1	1		
有效页/Effective Page	1	2	3	4	5	6	7	8	9		

一.总则/GENERAL

1. 型号/MODEL: **Gulfstream 200** (运输类/Transport Category)
2. 以色列民用航空局型号合格证: 第 **A6IL** 号 颁发日期: 2001 年 12 月 31 日。
Civil Aviation Administration of Ministry of Transport of Israel Type Certificate: No. **A6IL**, Date of Issue: December 31, 2001
3. 以色列民用航空局型号合格证数据单: 第 **A6IL** 号, 第 10 版, 颁发日期: 2004 年 10 月
Civil Aviation Administration of Ministry of Transport of Israel Type Certificate Data Sheet: No. **A6IL**, Revision 10, Date of Issue: October, 2004

4. 以色列民用航空局生产许可证: PA30

Civil Aviation Administration of Ministry of Transport of Israel Production Certification: PA30

二. 合格审定基础/CERTIFICATION BASIS

1. 型号合格审定基础/Certification Basis:

- (1) 14 CFR25 部(生效日期: 1965 年 2 月 1 日), 修正案 25-1 到修正案 25-82。
14 CFR Part 25, effective Feb. 1, 1965, including Amendments 25-1 through 25-82.
- (2) 14 CFR36 部 (生效日期: 1969 年 12 月 1 日), 修正案 36-1 到修正案 36-21。
14 CFR Part 36, effective Dec. 1, 1969, including Amendments 36-1 through 36-21.
- (3) 14 CFR 34 部 (生效日期: 1990 年 9 月 10 日), 修正案 34-1 到修正案 34-2。
14 CFR Part 34 effective Sep. 10, 1990, including Amendments 34-1 through 34-2.
- (4) 专用条件/Special conditions:
 - (a) No.25-ANM-106 高空运行。
No.25-ANM-106 for High Altitude Operations
 - (b) No.25-ANM-112 高强度辐射场 (HIRF)。
No.25-ANM-112 for High Intensity Radiated Fields(HIRF)
- (5) 等效安全/Equivalent level of safety:
 - (a) FAR 25.1203(a) 关于涡轮发动机尾喷管火警探测。
FAR 25.1203(a) for Turbine Engine Tailpipe Fire Detection.
 - (b) FAR 25.1305 & 25.1501(b) 关于辅助动力装置(APU)使用和监控要求。
FAR 25.1305 & 25.1501(b) for Auxiliary Power Unit (APU) Instrumentation and monitoring Requirements.
 - (c) FAR 25.901, 25.1305, 25.1309, 25.1321, 25.1549 关于涡轮发动机高/中压转子转速(N2)的数字单一显示。
FAR 25.901, 25.1305, 25.1309, 25.1321, 25.1549 for Digital only display of turbine engine high/intermediate pressure rotor speed (N2).
 - (d) 所有 25 部的章节, 除了结构以外, 关于失速速度/相关参数均以 1-g 失速速度代替最小失速速度。
All Part 25 Sections, except structural, dealing with stall speeds/related factors for use of 1-g Stall Speed instead of minimum speed in the stall.
 - (e) 1.1, 1.2, 25.101, 25.105, 25.109, 25.113, 25.115, 25.735 和 25.1587 节关于中断起飞和着陆性能准则。
Section 1.1, 1.2, 25.101, 25.105, 25.109, 25.113, 25.115, 25.735 and 25.1587 for rejected take-off and landing performance criteria.
 - (f) 25.933(a)(1)(ii)关于反推操作。
25.933(a)(1)(ii) for Thrust Reversers operation.

2. 中国民用航空总局型号认可审定基础/ CAAC Validation Basis:

CAAC 接受 CAAI 合格审定基础作为认可审定基础

The CAAC accepts the Civil Aviation Administration of Ministry of Transport of Israel Certification Basis as the Validation Basis

三.技术特性和使用限制/TECHNICAL CHARACTERISTICS AND OPERATIONAL LIMITATIONS**型号 Model Gulfstream 200**

发动机/engine 2 台加普惠涡轮风扇发动机,型号为: PW306A。(按加拿大型号合格证数据单 E-22, 第 6 版)
2 Pratt & Whitney Canada engines PW306A (turbofan)
per DOT Canada Type Certificate Data Sheet E-22 REV.6

辅助动力装置 /APU Allied Signal Model GTE150

发动机使用限制/ Engine Operating Limits PW306A

海平面静推力/Sea Level Static Thrust (lbs)

-起飞/Takeoff (with and without ARP) 6040
-最大连续/Maximum Continuous 6040

发动机允许最大连续转速/Max. Continuous Permissible Engine Operating Speed for the Engine Rotors, % RPM (RPM)

-低压转子/Low pressure rotor (N1) 105% (11138)
-高压转子/High pressure rotor (N1) 105% (28277)

最大 ITT /Max. Interstage Turbine Temperature (ITT), °C

-启动/During Starting 950
-起飞(限制 5 分钟)/Take off (5 minute limit) 920
-最大连续/Maximum Continuous 920

滑油温度/Oil Temperature, °C

-起飞/Take off 16-135
-最大连续/Maximum Continuous 16-135
-启动(最小)/During Starting (Minimum) -40

滑油压力/Oil Pressure (PSI)

-起飞/Take off 36-107
-最大连续/Maximum Continuous 36-107
-启动(最大)/During Starting (Maximum) 217

辅助动力装置限制/APU Limits

-最大高度/Maximum altitude	45000ft
-最大启动高度/Maximum altitude for start	35000ft

其它限制见 G200 飞机飞行手册/Other limitation as stated in Gulfstream 200 AFM

燃油/ Fuel:

牌号/Type	规范/Specifications	
	美国/U.S.A	中国/P.R.C
Jet A, A-1, Jet B	ASTM-D-1655	

按飞机飞行手册限制章节确定符合普惠公司说明书
PWA204/Conforming to Pratt & Whitney Company Specification
PWA 204 as per LIMITATION SECTION of Approved AFM.

燃油控制计算器/ 两台 HAMILTON STANDARD 燃油控制计算器
Fuel Control Computer Two HAMILTON STANDARD fuel control computers

滑油牌号/Oil Type 确定符合普惠公司说明书 PWA521 /Conforming to Pratt & Whitney Company Specification PWA 521

空速限制 (正常使用重量)
/ Airspeed Limits (Normal operating weight)

正常使用自动驾驶仪或使用 Mach trim /Normal operation autopilot engaged or Mach trim operative

V_{MO}(最大使用/Maximum Operating)

海平面到 15000 英尺/Sea Level to 15000 ft.	310(KIAS)
15000-24500 英尺/15000-24500ft.	360(KIAS)
M _{MO} 24500 英尺以上/Above 24500 ft.	0.85 马赫(Mach)

不使用自动驾驶仪和不使用 Mach trim /With autopilot disengaged AND Mach trim inoperative

V_{MO}

海平面到 15000 英尺/Sea Level to 15000 ft.	310(KIAS)
15000 英尺以上/ above 15000ft.	360(KIAS)
M _{MO} 22100 英尺以上/Above 22100 ft.	0.81 马赫(Mach)

Va(机动)/(maneuvering)

在 20000 英尺以下/Below 20000 ft.	254(KIAS)
在 20000-40000 英尺/Between 20000 to 40000ft.	260(KIAS)
40000 英尺以上/Above 40000 ft.	0.85 马赫(Mach)

空速限制:增加重量/Airspeed Limits: Increased

正常使用自动驾驶仪或使用 Mach trim /Normal operation autopilot engaged or Mach trim operative

V_{MO} 海平面到 15000 英尺/Sea Level to 10000 ft.

10000-20000 英尺/10000-20000ft. (线性变化)	310(KIAS) 310-330(KIAS)
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Weight (MOD 7166 and MOD 10082)	/linear variation) V _{MO} /M _{MO} 20000 英尺以上/Above 20000 ft. 360(KIAS)/ 0.85 马赫 (Mach)		
	不使用自动驾驶仪和不使用 Mach trim /With autopilot disengaged AND Mach trim inoperative		
	V _{MO}		
	海平面到 10000 英尺/Sea Level to10000 ft.		310(KIAS)
	10000-20000 英尺/10000-20000ft. (线性变化 /linear variation)		310-330(KIAS)
	V _{MO} /M _{MO} 20000 英尺以上/Above 20000 ft. 360(KIAS)/ 0.81 马赫 (Mach)		
	Va(机动)/(maneuvering)		
	在 10000 英尺以下/Below 10000 ft.		275(KIAS)
	在 10000-30000 英尺/10000-30000ft. (线性变化 /linear variation)		275-300(KIAS)
	V _{MO} /M _{MO} 30000 英尺以上/Above 30000 ft. 300(KIAS)/ 0.85 马赫 (Mach)		
空速限制（正常和增加使用重量）/Airspeed Limits (Normal & Increased operating Weight)	V _{FE} Kruger/Slats		250(KIAS)
	V _{FE} (襟翼 12 °/Flap 12 °)		250(KIAS)
	V _{FE} (襟翼 20 °/Flap 20 °)		225(KIAS)
	V _{FE} (襟翼 40 °/Flap 40 °)		195(KIAS)
	V _{SB} (Airbrakes Operation)		V _{MO} /M _{MO}
	V _{LE} 和V _{LO} (起落架放下和使用速度)/ (L/G Extension & Operating Speed)		195(KIAS)
	V _{MCA} (襟翼 0 °/Flap 0 °)		122(KIAS)
	(襟翼 12°和 20°/Flap12° and 20°)		118(KIAS)
	V _{MCG} (襟翼 0°, 12°和 20°/Flap 0°, 12°and 20°)		108(KIAS)
	Tire Limit Ground Speed: KTAS(MPH)		182(KIAS) (210)
重心范围（正常使用重量）/C.G Range (Normal operating weight)	总重/Gross Weight	前重心限制/Forward Limit	后重心限制/Aft Limit
	16950 磅/LBS	35.00% MAC	40.00% MAC
	20000 磅/LBS	22.00% MAC	40.00% MAC
	32000 磅/LBS	22.00% MAC	40.00% MAC
	35000 磅/LBS	24.00% MAC	40.00% MAC
重心范围:增重（MOD7166）/C.G Range: Increased Weight (MOD 7166)	总重/Gross Weight	前重心限制/Forward Limit	后重心限制/Aft Limit
	16950 磅/LBS	35.00% MAC	40.00% MAC
	20000 磅/LBS	22.00% MAC	40.00% MAC
	32000 磅/LBS	22.00% MAC	40.00% MAC
	35600 磅/LBS	24.40% MAC	40.00% MAC
重心范围:增重（MOD10082）/C.G Range: Increased	总重/Gross Weight	前重心限制/Forward Limit	后重心限制/Aft Limit
	16950 磅/LBS	35.00% MAC	40.00% MAC
	20000 磅/LBS	22.00% MAC	40.00% MAC
	32000 磅/LBS	22.00% MAC	40.00% MAC

Weight (MOD 10082)	35800 磅/LBS	24.53% MAC	40.00% MAC
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Linear variation between points Gear extension and retraction moment is negligible.

最大重量 (正常使用重量)	磅/ pounds
/Maximum Weight (Normal operating weight)	
停机坪/Ramp	35000
起飞/Takeoff	34850
着陆/Landing	28000
零燃油/Zero fuel	24000

最大重量:增重 (MOD7166)	磅/ pounds
/Maximum Weight: Increased Weight (MOD 7166)	
停机坪/Ramp	35600
起飞/Takeoff	35450
着陆/Landing	30000
零燃油/Zero fuel	24000

最大重量:增重 (MOD10882)	磅/ pounds
/Maximum Weight: Increased Weight (MOD 10882)	
停机坪/Ramp	35800
起飞/Takeoff	35650
着陆/Landing	30000
零燃油/Zero fuel	24000

燃油容积/Fuel Capacity	见批准的出版物中列出的飞机飞行手册 / See AFM as listed in Approved Publications
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滑油容积/Oil Capacity	见批准的出版物中列出的飞机飞行手册 / See AFM as listed in Approved Publications
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适用的生产序号 /Serial Numbers Eligible	S/N 057 及以后 /S/N 057 and subsequent
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基准/Datum	机身 0 站位, 位于主门后框前 5.63334 米。 / Fuselage Station 0, is located 5.633 meters forward of AFT frame of main entrance..
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调平方法/ Levelling	纵向: 在机身站位 8302 与飞机中心线平行的任一座椅导轨调平 /Longitudinally: Place level on either seat rail at fuselage station
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Means	8302 parallel to aircraft centreline. 横向: 在机身站位 8302 与飞机中心线垂直的座椅导轨调平 /Laterally: Place level on seat rails at fuselage station 8302 at 90° to aircraft centreline.
最大使用高度/ Maximum Operating Altitude	45,000 英尺/feet
最小飞行机组/ Minimum Crew	2 人(正副驾驶)/2(Pilot and Copilot)
最大乘员/ Maximum Occupants	见注 4/See note 4
生产基础/ Production Basis	生产许可证: PA30 / Production Certificate -PA30
设备/ Equipment	适用的适航要求(见审定基础)所规定的基础设备必须安装在合格审定的飞机上/ The basic required equipment as prescribed in applicable airworthiness regulations (see Certification Basis) must be installed in the aircraft for certification. 参照最低设备清单报告 No. 4AS 034/980439 B 版或以后/Refer to Master Equipment List Report No. 4AS 034/980439 Rev. B or later.
持续适航文件/ Instructions for Continue Airworthiness	所有使用寿命限制规定在 MRB No.4AS/042/980119 “附录 2: 适航限制要求”的 A2.2 项中。/ All the life limitations are provide in the item A2.2 of the “Appendix 2-Airworthiness Limitation Requirement” of the document MRB No.4AS/042/980119. 从损伤容限分析中提出的强制结构审定维护要求, 列在 MRB No.4AS/042/980119 “附录 2: 适航限制要求”中。/The mandatory structure certification maintenance requirement, raised from the damage tolerance analysis, are listed in the “Appendix 2-Airworthiness Limitation Requirement” of the document MRB No.4AS/042/980119. 从安全分析中提出的强制系统审定维护要求, 列在 MRB No.4AS/042/980119 “附录 1: 审定维护要求”中。/The mandatory system certification maintenance requirement, raised from the safety analysis, are listed in the “Appendix 1-Certification Maintenance Requirements” of the document MRB No.4AS/042/980119.

标牌/Placards 所要求的标牌包含在维护手册（持续适航文件）G200-1001-6 第 11 章
标牌和标记中。/Required placards are included in Maintenance
Manual (Instrument for Continued Airworthiness) part number
G200-1001-6, Chapter 11, Placard and Markings.

注释 1/NOTE 1 (a) 必须在为每架飞机提供原始合格证件的同时提供现有重量和平衡
报告，包括空重和装载说明。/ Current weight and balance report
including list of equipment included in certificated empty weight and
loading instructions must be provided for each aircraft at the time of
original certification.
(b) 飞机在任何时候加载都必须满足重心在说明限制中所规定的范围。
/The airplane must be loaded so that the C.G. is within the
specified limits at all times.
(c) 燃油和滑油系统液体重量的定义必须包括飞机的空重：/The
weight of fuel and oil systems fluid as defined below must be included
in the empty weight of the airplane:

燃油系统/FUEL SYSTEM:	LBS	ARM (Meters)
不可用/Unusable:		
-可排放/drainable	70.8	10.54
-不可排放/undrainable	21.4	10.40
滑油系统/OIL SYSTEM:	LBS	ARM (Meters)
不可用可排放(系统): 全部/Unusable Drainable (Systems)-total:	12.0	14.78

注释 2/NOTE 2 列在飞机飞行手册中所有要求的标牌必须安装在飞机的适当位置。
/All required placards listed in the Limitations Section of the Airplane
Flight Manual must be installed in the appropriate location in the airplane.

注释 3/NOTE 3 飞机正确使用和维护的必要信息包含在维护手册 G200-1001-6 持续适
航文件章节中，强制更换时间、结构检查间隔和相关的结构检查程序
及审定维护要求在手册 G200-1001-9 持续适航文件中批准的适航限制
章节里。/Information essential to the proper servicing and maintenance of
the aircraft is contained in the Maintenance Manual section of the
Instructions for Continued Airworthiness Manual marked G200-1001-6.
Mandatory replacement times, structure inspection intervals and related
structural inspection procedures and Certification Maintenance
Requirements are presented in the approved Airworthiness Limitations
Section of the Instructions for Continued Airworthiness Manual marked
G200-1001-9.

注释 4/NOTE 4 飞机型号合格证定义了一种构型不包括飞机外部喷漆和客舱内饰以
及乘员装备，飞机批准的座椅构型最多可以搭载 19 名乘客，有关乘
员装备要满足审定基础的要求。/This Aircraft Type Certificate defines a
configuration which does not include exterior painting of the aircraft and its

cabin interior furnishing and passenger provisions. The aircraft is eligible for carriage of up to 19 passengers provided approved seating arrangement and related required passenger provisions are incorporated in accordance with the Basis of Certification.

注释 5/NOTE 5 位于乘客和非机务人员容易接近区域的标牌必须至少用中文显示。
/Placards located in those areas accessible to passengers and ramp personnel shall be displayed at least in Chinese Languages.