

型号认可证数据单

Validation Type Certificate Data Sheet

编号/No: VTC0261A

版次/Revision: 1

型号/Type:

P.180

批准人/Approved By: Yang Zhenmei

职务/Title: Deputy Director General
of CAAC-AAD

日期/Date: 2014-08-28

本数据单是型号认可证(编号: VTC0261A)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认可证的产品状态和限制。

This Data Sheet, which is part of Validation of Type Certificate (No. VTC0261A) 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:

Piaggio Aero Industries SpA

Viale Castro Pretorio, 116 -00185 Roma
ITALY

有效页清单/List of effective pages :

Pages	1	2	3	4	5	6	7	8	9	10	11	12	13	14					
Revision	1	1	1	1	1	1	1	1	1	1	1	1	1	1					

第 1 部分概述 (所有机型)

SECTION 1 GENERAL (ALL MODELS)

1. CAAC 认可数据单和型号合格证数据单

CAAC Validation Data Sheet and Type Certificate Data Sheet

	中国民用航空总局认可数据单号、版次和颁发日期 CAAC Validation Data Sheet Number, Revision and issuance date	型号合格证数据单号、版次和颁发日期 Type Certificate Data Sheet Number, Revision and issuance date
当前 Current	VTC0261A,Rev.1, 2014-08-28	TCDS EASA.A.059,Issue 08, 03 Jun,2014
历史 History	VTC0261A,Rev. 0, 2011-10-09	TCDS EASA.A.059,Issue 06, 18 Feb,2011

2. 类别/Category:

正常类/Normal

3. 认可当局/Validation Authority:

中国民用航空局/CAAC

审定当局/Certifying Authority:

欧洲航空安全局/EASA

4. 型号合格证持有人/Type Certificate Holder:

Piaggio Aero Industries SpA

Viale Castro Pretorio, 116-00185 Roma

ITALY

5. CAAC Special Requirements

交付到中国的每一架 P.180 飞机须满足下述特殊要求/Each of P.180 aircraft delivered to China shall meet the following special requirements:

- (1) 必须满足中国民用航空局的运行要求 (例如标记标牌的中文要求)。/The operational requirements of CAAC must be met(e.g. Chinese language requirements for markings and placards)
- (2) 必须批准在本型航空器上使用中国国标 3 号燃油。/Usage of PRC National No.3 Jet Fuel must be approved on this type of aircraft.

第 2 部分

SECTION 2

P.180 Avanti II

I. 概况/General

1. 型号/Type: P.180
型别/ Model: Avanti II
2. 制造商/Manufacturer: Piaggio Aero Industries SpA
Via Luigi Cibrario, 4- 6154 Genova- ITALY
3. 适航审定申请日期/Certification Application Date : 2003 年 10 月 16 日/October 16th, 2003
4. EASA 型号合格证颁发日期/EASA Certification Date : 2005 年 10 月 21 日/ October 21st, 2005

II. 认可审定基础/Validation Basis

1. 中国民用航空局认可审定基础/CAAC Validation Basis:
 - 1.1 欧洲联合适航当局的合格审定基础: / CAAC accepts EASA Certification Basis as the Validation Basis:
 - 1.2 CAAC 的附加技术条件/CAAC Additional Technical Conditions:

参见问题纪要 G001/ Refer to Issue Paper G001

 - 1) 燃油要求 / The Chinese fuel mainly used for civil aviation is No.3 Jet fuel (GB 6537-94). The fuel needs to be approved for the airplanes before its operation in China.
 - 2) 中文标识要求 / As per CCAR21.29(e), All literal markings and placards on an airplane used for advising , warning , or notifying passengers must be at least in Chinese; all literal markings and placards on an airplane used for indicating passengers or outboard rescue personnel of the location of emergency exits and doors and their means of opening must be at least in Chinese; and all the operation instructions of airplane emergency equipment that may be used by passengers must be at least in Chinese.
 - 3) 翼面结冰污染评估 / The effects of ice or snow contaminated wing on stall speed must be evaluated. Please refer to Issue Paper G004 from CAAC.
2. EASA 审定基础 / EASA Certification Basis:
 - 2.1 适航要求/Airworthiness Requirements: 意大利适航规章 Part223, 223-1 到 223-33 修正案; 相当于 FAR23, 23-1 到 23-33 修正案/RAI Regolamento Tecnico Part223, including amendments 223-1 through 223-33, correspondent to FAR23, effective February 1st 1965, including amendments 23-1 through 23-33

欧洲联合航空条例, JAR 全天候运行、第 2 部分、1996 年 8 月 1 日生效的第 2 次更改/JAR AWO Subaprt2, Change 2, dated August 1st 1996

JAA 第 6 号资料、第 1 版和 FAA 临时指导资料 91-RVSM、第一次更改中关于缩小垂直高度层的专门要求/RVSM specific requirements included in the JAA Leaflet n.6 rev.1 and in the FAA Interim Guidance Material 91 – RVSM, Ch.1

受 PA-05 重大改装影响区域适用的适航要求参见 CRI A-01 (Mod. n. 80-0587) /The airworthiness requirements to areas affected by the PA-05 major change refer to CRI A-01(Mod. n. 80-0587)

对于安装了可选改装项目 Mod.n.80-0642 or 按 SB 80-0215 进行改装的飞机: / For airplanes incorporating the optional Mod. n. 80-0642 or equivalent SB 80-0215:

审定基础同上, 但 CS 23 第一版适用于受该改装影响的区域 (对于改装 Mod. n. 80-0642, 参见 CRI A-01) /As above, except the CS 23 requirements (first issue) applicable to the areas affected by the change(see CRI A-01 for Mod. n. 80-0642)

2.2 选定满足的要求/ Requirements elected to comply:

1974 年 2 月 1 日生效的特殊联邦航空条例第 27 号, 27-1 至 27-5 修正案/Special Federal Aviation Regulations n. 27, effective 1st February 1974, including amendments 27-1 through 27-5.

FAR23.2, 第 36 修正案 / FAR 23.2, amendment 36.

FAR91 附录 A, 1989 年 8 月 18 日生效/FAR 91 Appendix A dated August 18, 1989.

对下列改装和相关服务通告, 适用欧洲联合航空条例 JAR23 (1994 年 3 月 11 日第一版) / Applicable JAR 23 (first issue dated March 11, 1994) requirements for the following modifications:

80-0228 “垂直尾翼-铝合金替代复合材料” / 80-0228 “Vertical fin-aluminum alloy instead of composite” ;

80-0229 “铝合金鸭翼替代复合材料鸭翼” / 80-0229 “Aluminum canard wing instead of composite”

80-0241 “铝合金方向舵和配平调整片” / 80-0241 “Aluminum rudder and trim tab”

and for the relevant Service Bulletins:

80-0106 “用新金属组件更换复合材料前翼组件” / 80-0106 “Replacement of the Composite Forward Wing Assembly with the new metallic one”

80-0142 “如果出现不可修复的损伤，用金属结构组件更换复合材料尾椎/垂尾组件”
/80-0142 “Replacement of the Composite Material Tail-cone/Vertical Fin Assembly with
the Metal Construction Assembly, in the event of not repairable damages”

民用航空条例第 36 部，1969 年 12 月 1 日生效，包括 36-1 到 36-16 修正案/14 CFR Part 36,
effective 1st December 1969, including amendments 36-1 through 36-16

欧洲航空安全局 2003 年 11 月 23 日颁发的审定规范 CS-23, 第 23.1529 条。/EASA Certification
Specifications CS-23, dated 23/11/2003, paragraph 23.1529.

2.3 EASA 专用条件/EASA Special Conditions:

包含 1989 年 6 月 21 日发布的 RAI 文件 n. 257.
240/SCMA 中的专用条件 (摘要号 n.031CE, 专用条件
FAA n.23-ACE-29 和专用条件 FAA n.23-ACE-52), 列
出如下: /Special Conditions enclosed to the RAI
paper n.257.240/SCMA dated July 21, 1989 (Docket
n.031 CE, Special Conditions n.23-ACE-29 and
Special Conditions FAA n.23-ACE-52) which include
the following Issue Papers:

问题纪要/Issue Paper	专用条件/Special Condition
C-1 复合材料结构疲劳/损伤容限	23-ACE-29 No.4
C-1 Composite Structures Fatigue/Damage Tolerance	
C-2 全尺寸气动载荷验证	23-ACE-29 No.5
C-2 Full Scale Airload Verification	
C-3 舱门和出口 (外开)	23-ACE-29 No.6
C-3 Doors and Exits (Outward Opening)	
C-4 复合材料结构的闪电防护	23-ACE-29 No.4
C-4 Lightning Protection of Composite Structure	
C-6 前翼和主翼的襟翼联动	23-ACE-29 No.7
C-6 Forward and Main Wing Flap Interconnection	
C-7 P180 构型的载荷	23-ACE-29 No.5
C-7 Loads for P180 Configuration	
F-1 抖振包线	23-ACE-29 No.1
F-1 Buffet Onset Envelope	
F-2 雨或污染对层流翼型的影响	23-ACE-29 No.3
F-2 Effect of Rain or Contamination on Laminar Flow Airfoils	
F-5 超出最大操作速度的无意偏离	23-ACE-29 No.2
F-5 Inadvertent Excursion Beyond Maximum operating Speed	
F-6 螺旋桨地面空隙	23-ACE-29 No.8
F-6 Propeller Ground Clearance	
F-7 螺旋桨标志	23-ACE-29 No.9
F-7 Propeller marking	
F-8 螺旋桨脱落冰撞击防护和废气影响	23-ACE-29 No.10
F-8 Propeller Ice Protection and Exhaust Gas Impingement	

SE-4 驾驶舱烟雾排气	23-ACE-29 No.11
SE-4 Cockpit Smoke Evacuation	
SE-5 系统雷击和高能防护	23-ACE-52 No.2
SE-5 Protection for System from Lightning and High Energy Radio Frequency (HERF)	

2.4 EASA 豁免/EASA Exemptions 无/None

2.5 EASA 等效安全/EASA Equivalent Safety Findings:

23.1305(g): 燃油压力指示 / Fuel pressure indication
23.1545(b) (5): 空速指示的 V_{Yse} 标识/Marking of Air indicator for V_{Yse}

2.6 EASA 环境标准/EASA Environmental Standards:

噪声: ICAO 附件 16, 1988 年版, 第 1 卷, 第 10 章

Noise: ICAO Annex 16, Ed.1988, Vol. I, Chapter 10

[安装了可选改装 Mod.n.80-0642 或按照 SB 80-0215 进行改装的飞机: ICAO 附件 16, 1993 年版, 第 7 修正案, 第 1 卷, 第 10 章/EASA CS 36(参见 CRI A-01 mod 80-0642)]

[Airplanes incorporating the optional Mod.n.80-0642 or SB 80-0215: ICAO Annex 16, Ed. 1993, amd.7, Vol. I, Chapter 10/EASA-CS36(see CRI A-01 mod 80-0642)]

排放: ICAO 附件 16, 1993 年版, 第 2 卷, 第 2 部分, 第 2 章 (燃油排泄)

Emissions: ICAO Annex 16, Ed. 1993, Vol. II, Chapter2 (fuel venting).

III. 技术参数和操作限制/Technical Characteristics and Operational Limitations

1. 型号设计定义/Type Design Definition:
 - “P.180 Avanti –Type Configuration”
 - Piaggio Doc. n. 180-CNF-0000-00976.
 - “P.180 Avanti List of approved design changes”
 - Piaggio Doc.N. 180-CNF-0000-01165.

经批准的中文标志标牌/Approved Chinese Placard:

 - “P180 Cabin placards/silk Translation”
 - Piaggio Doc.N.180-TNT-2500-04203 rev 02
 - “P180-Interiors Placard-Chinese language translation”
 - Piaggio Doc.N.180-RSP-2500-02572 rev 03

2. 描述 /Description

2.1 概述/General

Piaggio P180 Avanti II 是双发涡桨公务飞机, 含机组成员的最大载人量为 11 人。

其专有特征为三翼面设计 (前翼、主翼和水平安定面) 以及推进式螺旋桨。

Piaggio P180 Avanti II is a bi-turboprop business aircraft with a max seating capability of 11 people including crew.

Its peculiar characteristic are the three lifting surface design (forward wing, main wing, and horizontal stabilizer) and pusher props.

2.2 电子设备 /Avionics

标准电子设备包为 Collins Pro Line 21 电子设备套件, 已专门为 P180 飞机进行过配置。/The standard avionics package is a Collins Line 21 avionic suite, as it has been configured for the P180

3. 设备/Equipment

批准的设备清单包含在 Piaggio 文件 “P.180 Vendor Item List/Qualification List” Piaggio Doc. n. 180-CRP-0000-0042 中。

The list of approved equipment is shown in Piaggio document “P.180 Vendor Item List/Qualification Equipment List” Piaggio Doc.n. 180-CRP-0000-00412.

4. 尺寸/Dimensions

前翼翼展 3356 mm (11.01 ft)
主翼翼展 14033 mm (46.04 ft)
长度 14408 mm (47.27 ft)
高度 3980 mm (13.05 ft)
机翼总面积 16.00 m² (172.212ft²)

Forward Wing Span	3356 mm (11.01 ft)
Main Wing span	14033 mm (46.04 ft)
Length	14408 mm (47.27 ft)
Height	3980 mm (13.05 ft)
Total Wing Area	16.00 m ² (172.212ft ²)

5. 发动机 /Engines

数量 2

型号每台额定功率为 850 轴马力的加拿大 Pratt & Whitney PT6A-66 涡桨发动机

右发 3037000 制造规范 676

左发 3037000 制造规范 677

No. 2

Model: Pratt & Whitney of Canada PT6A-66 turboprop engines, each flat rated at 850 s.h.p.

Right Engine 3037000 Build Spec.676

Left Engine 3037000 Build Spec.677

型号认可证 VTC0226E

Validation of Type Certificate: VTC0226E

实施了更改 n.80-0657 或服务通报 80-0231 的飞机/Airplanes incorporating the Mod n. 80-0657 or SB 80-0231:

型号: 装机后每台额定功率为 850 轴马力的加拿大 Pratt & Whitney PT6A-66B 涡桨发动机

右发 3072196 制造规范 1223

左发 3072196 制造规范 1224

Model: Pratt & Whitney of Canada PT6A-66B turboprop engines, each flat rated at 850 s.h.p. when installed on the aircraft.

Right Engine 3072196 Build Spec. 1223

Left Engine 3072196 Build Spec. 1224

型号认可证 VTC0226E

Validation of Type Certificate: VTC0226E

5.1 发动机限制/Engine Limits

运行条件/Operating Conditions	轴功率/ Shaft (shp.)	燃气发生器 速度 N1/ N1 Gas Generator Speed (%)	扭矩/Torque ft-lbs (kgm)	螺旋桨轴速度 /Prop. shaft speed (r.p.m.)	最大允许级 间温度 Maximum Permissible Interstage Temperature (°C)
起飞/Takeoff 最大连续 /Max. continuous 最大爬升/Max. climb 最大巡航/Max. cruise	850	104.1	2230 (308.3)	2000	830
正常爬升 /Normal climb 正常巡航 / Normal cruise	850	104.1	2230 (308.3)	2000	820
启动限制(5 秒) /Starting Limits (5 sec.)	-	-	-	-	1000
瞬变/Transient (20 sec.)	-	104.1	2750 (380.2)	2205	870

滑油温度/Oil Temperature

启动/Starting:	-40°C (min)
最小慢车/Minimum idle:	-40°C+110°C
瞬变/Transient:	0°C+110°C
最大连续和最大反桨/ Max. continuous and max. reverse:	0°C+110°C

注: 上述发动机限制既适用于 PT6A-66, 也适用于 PT6A-66B。

Note: The above mentioned engine limits are applicable to both engine models: PT6A-66 and PT6A-66B.

6. 螺旋桨/Propellers:

数量

2

型号: Hartzell
 右: HC-E5N-3L 或 HC-E5N-3AL(桨毂)/LE8218(每片桨叶)
 左: HC-E5N-3 或 HC-E5N-3A(桨毂)/HE8218(每片桨叶)

No. 2

Model: Hartzell
 Right: HC-E5N-3L or HC-E5N-3AL(hub)/LE8218(each blade)
 Left: HC-E5N-3 or HC-E5N-3A(hub)/HE8218(each blade)

型号认可证: VTC0205P
 Validation of Type Certificate: VTC0205P

桨叶数: 5
 Number of blades: 5

6.1 旋转方向/Sense of Rotation

右螺旋桨沿飞行方向看逆时针方向旋转
 左螺旋桨沿飞行方向看顺时针方向旋转
 Right propeller rotates Counterclockwise in view of flight direction
 Left propeller rotates Clockwise in view of flight direction

6.2 直径/Diameter 2159mm 最大/maximum, 2146mm 最小/minimum

6.3 桨距/Pitch

0.761m 站位的名义桨距角/Nominal pitch angle at 0,761m(30")station

- 地面最小/minimum on ground	14° ±0,5°
- 飞行最小/minimum in flight	18° ±0,5°
- 反桨(负)/Reverse(negative)	-13° ±0,5°
- 顺桨/Feathered	89° ±0,5°

6.4 螺旋桨限制/Propeller Limits

不允许进一步降低最小直径
 禁止转速在 600 至 900rpm 之间的地面稳定运行
 仅允许螺旋桨在顺桨状态下在地面以不高于 600rpm 的转速稳定运行
 禁止转速在 1300 至 1600rpm 之间的地面稳定运行

No further reduction of the minimum diameter is allowed.
 Stabilized ground operations between 600 and 900 rpm are prohibited.
 Stabilized ground operations at or below 600 rpm are allowed only when the propeller is feathered.
 Stabilized ground operations between 1300 and 1600 rpm are prohibited.

7. 液体/Fluids

7.1 燃油/fuel

JP4、JP8、JET A、JET A-1、JET B; RP-3(3号喷气燃油); RT 和TS-1(按GOST 10227-86)。
满足最新的Pratt&Whitney服务通告No.14004。

JP4, JP8, JET A, JET A-1, JET B and RP-3(No.3 Jet Fuel); RT and TS-1(as per GOST 10227-86) conforming to the latest revision Of Pratt&Whitney Service Bulletin No.14004.

JET A、JET A1、JET B和RP-3燃油必须使用符合标准MIL-I-27686的防冰添加剂。

Fuel Anti-ice Additive compliant with Speciation MIL-I-27686 must be used with JET A, JET A1, JET B and RP-3 fuels.

7.2 滑油/Oil

Mobile Jet Oil II, AeroShell Turbine Oil 500和Castrol 5000。/ Mobile Jet Oil II, AeroShell Turbine Oil 500和Castrol 5000.

也可以参考飞行员操作手册和飞机飞行手册 (最新版) 的限制章节。/Refer also to the Limitation Section of the Pilot's Operating Handbook and Airplane Flight Manual (latest revision) .

8. 流体容积/Fluid capacities

8.1 燃油/Fuel:

总量/Total:	1597l (421.9 US Gal)
可用/Usable:	1583l (418.2 US Gal), or

总量/Total:	1816l (479.7 US Gal)
可用/Usable:	1802l (476.0 US Gal)

对于实施了更改 n.80-1091 “延程”或服务通报 80-0424 的飞机。/For aeroplanes with modification n.80-1091"P.180 Extended Range" or S.B.80-0424 embodied.

8.2 滑油/Oil:

总量/Total:	25l (6.7US Gal)
可用/Usable quantity:	9.4l (2.5 US Gal)

关于不可排滑油, 参考注 3。/Refer to Note 3 for non-drainable oil.

9. 空速/Air Speeds

速度/Speed	条件/Condition	节 /KIAS	马赫数 /Mach
最大操作速度 /maximum operating speed	V _{MO} 直到 28,400 英尺/up to 28,400 ft	260	--
	M _{MO} 高于 28,400 英尺/above 28,400 ft	--	0.7
机动速度/maneuvering speed	V _A at 5239 kg (11550lbs)	199	--, or
	V _A at 5489 kg (12100lb)	202	--
	(对于实施了改装 n.80-0642 或等效的服务通报 80-0215 的飞机/ for aeroplanes with modification n.80-0642, or equivalent Service Bulletin n.80-0215 installed)		
襟翼展开位的最大速度 /Max. Flap Extended Speed	V _{FE}	175	--, or

	V _{FE}	177	--
	(对于实施了改装 n.80-0642 或等效的服务通报 80-0215 的飞机/ for aeroplanes with modification n.80-0642, or equivalent Service Bulletin n.80-0215 installed)		
	V _{FE} 起飞构型/ take-off configuration	180	--, or
	V _{FE} 起飞构型/ take-off configuration	183	--
	(对于实施了改装 n.80-0642 或等效的服务通报 80-0215 的飞机/ for aeroplanes with modification n.80-0642, or equivalent Service Bulletin n.80-0215 installed)		
最大襟翼操作速度/maximum flap operating speed	V _{FO}	150	--
	V _{FO} 起飞构型/take-off configuration	170	--
最大起落架操作速度/maximum landing gear operation speed	V _{LO}	180	--, or
	V _{LO}	181	--
	(对于实施了改装 n.80-0642 或等效的服务通报 80-0215 的飞机/ for aeroplanes with modification n.80-0642, or equivalent Service Bulletin n.80-0215 installed)		
起落架放下的最大飞行速度/maximum landing gear extended speed	V _{LE}	185	--
着陆灯操作/放出最大速度/maximum landing light operating/extended speed	V _{LLO} / V _{LLE}	160	--
最小可操纵速度/minimum control speed	V _{MC} 螺旋桨顺桨/propeller feathered	100	--
	螺旋桨风转/propeller windmilling	128	--
10. 最大运行高度/Maximum Operating Altitude	12500m/41000ft		
11. 全天候能力/All-weather Capability:	飞机按照适用飞行手册的限制授权进行 II 类运行/The airplanes are authorized to perform Category 2(Cat.II) operations according to the limitations included in the applicable Airplane Flight Manual.		
12. 最大重量/Maximum Weight			
12.1 最大重量/Maximum Weight:			
滑行和停机坪/Taxi and ramp	5262kg(11600lbs)		
起飞/Take-off	5239kg(11550lbs)		
着陆/Landing	4965kg(10945lbs), 或/or		

滑行和停机坪/Taxi and ramp	5511kg(12150lbs)
起飞/Take-off	5489kg(12100lbs)
着陆/Landing	5216kg(11500lbs)
(对于实施了改装 n.80-0642 或等效的服务通报 80-0215 的飞机/ for aeroplanes with modification n.80-0642, or equivalent Service Bulletin n.80-0215 installed)	

12.2 零燃油重量/Zero Fuel	4445kg(9800lbs)
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13. 重心范围/Centre of Gravity Range

起落架放下重心范围/Landing Gear extended

从/From	到/To	重量/Weight
5,273m (207.6")	5,435m (214.0")	5239kg(11550 lbs), 或/or
5,340 m (210.25")	5,435 m (214.0")	5511kg (12150 lbs)
对于实施了改装 n.80-0642 或等效的服务通报 80-0215 的飞机/ for aeroplanes with modification n.80-0642, or equivalent Service Bulletin n.80-0215 installed		
4,958 m (195.2")	5,435 m (214.0")	3967 kg (8745 lbs)
4,927 m (194.0")	5,410 m (213.0")	3856 kg (8500 lbs)
4,927 m (194.0")	5,328 m (209.8")	3493 kg (7700 lbs) or less
限制点之间线性变化/Straight line variation between limits given		

空机重量重心范围/Empty Weight C.G. Range	无/None
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14. 基准点/Datum

后压力隔框中心线前6.000m (236.22") (在前压力隔框与驾驶舱地板中心线的交叉点上)
6,000 m (236.22") forward of the rear pressure bulkhead centerline (at the intersection between the forward pressure bulkhead and the cockpit floor centerline).

15. 平均气动弦/Mean Aerodynamic Cord (MAC)

1,270m (50")

16. 调水平方法/Leveling Means

参考“P180 Avanti II维护手册”或适用的飞行员操作手册和飞机飞行手册。

Refer to the "P.180 Avanti II Maintenance Manual" or to the applicable Pilot's Operating Handbook and Airplane Flight Manual.

17. 最小机组/ Minimum Flight Crew

1个 (飞行员) / 1 (Pilot)

18. 最大乘客座位数/ Maximum Passenger Seating Capacity

11个, 包括1,250 m (49.2")站位的飞行机组。关于乘客和飞行机组装载指导和批准的构型, 参考“P.180 Avanti II 重量和平衡手册”。

11, including flight crew at 1,250 m (49.2") station. Refer to the "P.180 Avanti II Weight and Balance

Manual" for Passengers and flight crew loading instructions and approved configuration.

19. 出口 (数量和类型) / Exits: (No. and Type)

2个出口 (一个主舱门和一个应急出口)

2 exits (one main door and an emergency exit)

20. 行李舱/货舱/ Baggage/Cargo Compartments

舱/ Compartment	重量/Weight	站位/Station
座舱/Cabin compartment		
地板上/on the floor	23kg (50 lbs)	5,588 m (220")
挂衣杆上/on the coat rod	18,1kg (40 lbs)	5,588 m (220")
后舱/Rear Compartment	181,4kg (400 lbs)	7,569 m (298")

21. 机轮和轮胎/ Wheels and Tyres

经批准的机轮和轮胎类型、等级、尺寸和层级, 请参阅适用的飞行员操作手册和飞机飞行手册。

For approved wheels types and tires types, rating, dimensions and ply rating, refer to applicable Pilot's Operating Handbook and Airplane Flight Manual.

IV. 运行和使用指导 / Operating and Servicing Instructions

1. 飞机飞行手册/ Aircraft Flight Manual

"P.180 Avanti II Airplane Flight Manual" – Report n.180-MAN-0010-01100

"P.180 Avanti II Weight and Balance Manual" – Report n. 180-MAN-0020-01101

2. 维护手册/ Maintenance Manual:

"P.180 Avanti II Maintenance Manual" – Report n. 180-MAN-0200-01105

Airworthiness Limitations are contained in P.180 Avanti II Chapter 4 (Airworthiness Limitations)

Report n. 180-MAN-0200-01109

3. 结构修理手册/ Structural Repair Manual

"P.180 Structural Repair Manual" - Report n.180-MAN-0250-01106

4. 服务通报/ Service Bulletins

Refer to Piaggio Report n.9078

V. 注/ Notes

1. 客户化的客舱内饰和座椅构型必须获得批准/ Customized Cabin Interior and Seating Configurations must be approved

2. 适用飞机序列号: S/N 1002 和 S/N 1105 及后续序列号/ Applicable A/C serial numbers: S/ N 1002 and from S/N 1105 and up.

3. 颁发适航证的条件/ Requirements for the issue of the CofA.

- 需要进行适航审定的单机上必须安装满足适用适航规章的最低要求设备/ The minimum required equipment as prescribed in the applicable airworthiness regulations must be installed on the individual aircraft for certification.

- 准备颁发适航证的飞机上必须提供当前的重量和平衡数据，必要时在审定的空机重量和装机信息中加入设备清单/ Current weight and balance data, a list of equipment included in the certification empty weight and loading information when necessary must be provided for each aeroplane when the C.o.A. will be issued.
- 审定的空机重量和平衡数据必须包含下列的不可用燃油和总的发动机滑油信息/The certification empty weight and balance data shall include the unusable fuel and the total engine oil as follows:

	容量/Quantity	站位/Station
不可用燃油/Unusable fuel:	11,24 kg (24,8 lb)	6,319 m (248.8")
不可排燃油/Undrainable fuel:		
	3,94 kg (8,7 lb)	6,304 m (248.2")
对于实施了n.80-1091 “延程” 更改或80-0424 服务通报的飞机。/For aeroplanes with modification n.80-1091 “P.180 Extended Range” or S.B. 80-0424 embodied	7kg (15.4lbs)	6,012 m (236.7")
不可排滑油/Undrainable oil:	2,2 kg (4,9 lb)	6,975 m (274.6")
总滑油量/Total oil quantity:	25kg (55 lb)	6,975 m (274.6")

- 必须配备飞机飞行手册/ Aeroplane Flight Manual is required.
4. 标牌/Placards
批准的飞机飞行手册中列出的所有要求的标牌必须安装在合适的位置/ All required placards as listed in the approved Airplane Flight Manual must be installed in the appropriate locations.
5. 喷漆/ Painting
只有在获得TC持证人的批准后，才能更改复合材料部件的外部喷漆（包括登记号）的颜色和厚度 /Changing the color and the thickness of the exterior paint (including registration numbers) for composite components is only permissible after prior approval of the Type Certificate Holder.