

型号认可数据单

THE VALIDATION DATA SHEET

编号/No: VTC0154A

版次/Revision: 7

型号/Type:

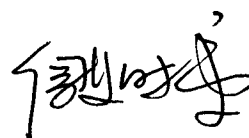
DA 40

DA 40D

DA 40F

DA 40 NG

批准人/Approved By:



日期/Data: 2011-8-29

本数据单是型号认可证（编号：VTC0154A）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: VTC0154A), 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:

Diamond Aircraft Industries GmbH

N.A. Otto-Str.5 A-2700 Wiener Neustadt

Austria

有效页清单/List of effective pages:

页数/Pages	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
版次/Revision	7	7	7	6	6	6	6	6	6	6	6	6	6	6	6	6
页数/Pages	17	18	19	20	21	22	23	24	25							
版次/Revision	6	6	6	7	7	7	7	7	7							

第 1 部分

SECTION 1

1. I. 概述/General

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	编号/Number: VTC0154A	编号/Number: EASA A.022
	版次/ Revision: 7	版次/ Revision: Issue 12
	日期/Date: 2011 年 8 月 29 日	日期/Date: 12 April 2011
历史 History	编号/Number: VTC 154A	编号/Number: EASA A.022
	版次/ Revision: 6	版次/ Revision: Issue 07
	日期/Date: 2008 年 6 月 10 日	日期/Date: 28 January 2008
	编号/Number: VTC 154A	编号/Number: EASA A.022
	版次/ Revision: 5	版次/ Revision: Issue 07
	日期/Date: 2008 年 5 月 13 日	日期/Date: 28 January 2008
	编号/Number: VTC 154A	编号/Number: EASA A.022
	版次/ Revision: 4	版次/ Revision: Issue 05
	日期/Date: 2007 年 10 月 28 日	日期/Date: 28 Mar 2007
	编号/Number: VTC 154A	编号/Number: EASA A.022
	版次/ Revision: 3	版次/ Revision: Issue 04
	日期/Date: 2007 年 6 月 27 日	日期/Date: 21 Dec. 2006
	编号/Number: VTC 154A	编号/Number: EASA A.022
	版次/ Revision: 2	版次/ Revision: Issue 03
	日期/Date: 2006 年 6 月 19 日	日期/Date: 28 Sept 2005
	编号/Number: VTC 154A	编号/Number: JAA/23/00-001
	版次/ Revision: 1	版次/ Revision: Issue 12
	日期/Date: 2005 年 2 月 6 日	日期/Date: 07 May.2004
	编号/Number: VTC 154A	编号/Number: JAA/23/00-001
	版次/ Revision: 1	版次/ Revision: Issue 12
	日期/Date: 2005 年 2 月 6 日	日期/Date: 07 May.2004
	编号/Number: VTC 154A	编号/Number: JAA/23/00-001
	版次/ Revision: 0	版次/ Revision: Issue 12
	日期/Date: 2004 年 10 月 26 日	日期/Date: 07 May.2004

2. 类别/Category: 正常/实用类航空器/ Normal/Utility Category
 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. EASA 合格证

型号合格证 Type Certificate Number: EASA. A. 022
 型号合格证持有人/Type Certificate Holder: Diamond Aircraft Industries GmbH
 N.A. Otto-Str. 5 A-2700 Wiener Neustadt
 AUSTRIA

5. 申请 CAAC 认可审定的日期 2010-04-15

Date of Application for CAAC Validation:

6. CAAC 型号认可日期 2011-8-29

CAAC Validation Date:

1. II. CAAC 附加技术条件/CAAC additional technical conditions

1. CCAR21.29, Amendment Level: R3

2. 环保标准/Environmental Standards Noise: CCAR-36-R1, dated 15 April 2007

3. 用于告知乘客或地面救援人员舱门位置和打开方法的标记标牌必须满足中文要求

All literal markings and placards on an airplane used for indicating passengers or outboard rescue personnel of the location of doors and their means of opening must be at least in Chinese language.

4. 燃油符合中国航空燃油 3 号喷气燃料 (GB-6537-2006);

Fuel conforms to China Aviation No.3 JET FUEL (PRC National Standard GB-6537-2006);

5. 进口要求/Import Requirements

为具备在中国运行的资格, 按本型号认可证制造的每架航空器必须具有一份出口适航证, 其上签注有出口国适航当局的审定声明 (用英文), 即: 本架航空器符合 CAAC 所批准的型号设计 (VTC0154A) 并处于可安全运行的状态。
 To be considered eligible for operation in China, each aircraft manufactured under this Validation of Type Certificate must be accompanied by a certificate of airworthiness for export endorsed by EASA or EASA_authorized person which states (in English language): This aircraft conforms to its CAAC type design (VTC0154A) and is in a condition for safe operation.

6. 产品有效性/Series Nos. Eligible (Note 1)

对于申请 CAAC 审定的每一架飞机, 其出口适航证都必须由 EASA 按上述“进口要求”予以签注。

A EASA Certificate of Airworthiness for export endorsed as noted below under “Import Requirements” must be submitted for each individual airplane for which application for the CAAC certification.

7. 资料批准/Service Information

CAAC 接受的服务通告、结构修理手册、航空器飞行手册、供应商手册和航空器维护手册等使用维护资料应经 EASA 批准, EASA 的这些批准代表了 CAAC 的批准, 且仅限于本型号设计。

Service bulletins, structural repair manuals, aircraft flight manuals, vender manuals, and aircraft maintenance manuals which contain a statement that the document is EASA approved, are accepted by the CAAC and are considered CAAC-approved. These approvals pertain to the type design only.

第 2 部分
SECTION 2

DA 40

2. I. 概述/General

数据单号/Data Sheet No.: A.022

- | | |
|---|---|
| 1. a) 型号/Type | DA 40 |
| b) 型别/Variant | -- |
| 2. 适航类别/Airworthiness Category: | |
| a) | Normal / 正常类 |
| b) | Utility/实用类 |
| 3. 型号合格证持有人/Type Certificate Holder | Diamond Aircraft Industries GmbH
N.A. Otto-Str. 5 A-2700 Wiener Neustadt
Austria
EASA. 21J. 052 |
| 4. 制造商/Manufacturer: | Diamond Aircraft Industries GmbH
N.A. Otto-Str. 5
A-2700 Wiener Neustadt
Austria
AT. 21G. 001
Diamond Aircraft Industries Inc.
1560 Crumlin Sideroad, London Ontario,
N5V 1S2 Canada
161-93(TCCA) |
| 5. 审查申请日期/ Certification Application Date: | 20-Feb-1997 |
| 6. JAA 推荐日期: / JAA Recommendation Date : | 2000 年 10 月 24 日/ 24-Oct-2000 |
| 7. 奥地利民航局 TC/Austro Control GmbH Type Certificate | FZ 021 JAA |
| 8. EASA 审定日期: /EASA Certification Date: | 2005 年 1 月 21 日 (EASA 再次颁发)
21. January 2005 (reissue for EASA) |
| 9. 认可申请日期: /Validation Application Date: | 2003 年 10 月 30 日/30-Oct-2003 |
| 10. CAAC 认可日期: /CAAC Validation Date: | 2004 年 10 月 26 日/26-Oct-2004 |

2. II. 审定基础/Certification Basis

- | | |
|--|---|
| 1. 确定适用规章的参考日期: /Reference Date for determining the applicable requirements: | 1998 年 10 月 24 日/24-Oct-1998 |
| 2. (备用/Reserved) | |
| 3. (备用/Reserved) | |
| 4. 审定基础/Certification Basis: | As defined in CRI A-01, latest Issue |
| 5. 适航规章/Airworthiness Requirements: | JAR-23, Change -, issued 11-Mar-1994
JAR-1, Change 5, issued 15-Jul-1996 |
| 6. 选择符合的规章
Requirements elected to comply: | JAR-23, NPA 23-3, ACJ Material |

7. 专用条件/Special Conditions: CRI F-01, 高能量辐射场(HIRF)的影响防护
Protection from the Effects of HIRF
CRI F-03, 闪电影响及间接影响防护
Protection from the Effects of
Lightning Strikes, Indirect Effects
CRI 0-01, 滑翔机牵引/Glider Towing
CRI 0-02, 拖曳索回收装置
Tow Cable Retraction Mechanisms
8. (备用/Reserved):
9. 等效安全/Equivalent Safety Findings: 无/None
10. 环境标准/Environmental Standards: 国际民航组织附件 16, 第一卷, 1993 年第 3 版
ICAO, Annex 16, Volume 1, Third Edition, 1993
CRI A-03, 其它国家要求, 见注 2
CRI A-03 for additional national Requirements
See Note 2
起飞重量 1200kg, 参见注释 11,
for Take Off mass of 1200kg
See Note 11
11. 认可审定基础/Validation Basis: 接受审定基础/Accept Certification Basis
2. III. 技术特性和运行限制/Technical Characteristics and Operational Limitations
1. 型号设计定义/Type Design Definition: 现行颁发的文件为 No. 6.07.00 第 5 章, 包括 MÄM 40 001 至 40 007
及其后的设计更改
Current issue of Doc.No. 6.07.00, Chapter 5 including Design
Changes MÄM 40-001 to 40-007 and following
2. 描述/Description: 单发、四座悬臂式下单翼飞机, 复合材料结构, 固定前三点式起落
架, T 型尾翼
Single engine, four-seated cantilever low wing airplane,
composite construction, fixed tricycle landing gear, T-tail
3. 设备/Equipment: 设备清单见飞行手册 (No. 6.01.01) 的第 6 章
Equipment list, AFM, Doc.No. 6.01.01, Section 6
4. 几何尺寸/Dimensions:
- | | | |
|----------------|----------------------|---------------|
| 翼展/Span | 11.94 m | (39 ft 2 in) |
| 长/Length | 8.01 m | (26 ft 3 in) |
| 高/Height | 1.97 m | (6 ft 6 in) |
| 机翼面积/Wing Area | 13.54 m ² | (146 sqft) |
5. 发动机/Engines: 1 台 Textron Lycoming IO-360 M1A
FAA 发动机型号合格证数据单 1E10
1 Textron Lycoming IO-360 M1A
FAA Engine Type Certificate Data Sheet 1E10
- 5.1 发动机限制/Engine Limits: 最大起飞转速/Max take-off rotational 2700 r.p.m.
speed
最大连续转速/Max continuous rotational 2400 r.p.m.
speed

动力装置限制参见 AFM, 文档号 6.01.01 第二章/

For power-plants limits refer to AFM, Doc. No. 6.01.01, Section2

6. (备用/Reserved)

7. 螺旋桨/Propellers:

1 台 mt-Propeller MTV-12-B/180-17()

EASA 螺旋桨型号合格证数据单 P.013

1 mt-Propeller MTV-12-B/180-17()

() - designations: none or f

EASA Propeller Type Certificate Data Sheet P.013

7.1 设置/Settings

低桨叶角设置/Low pitch setting: 10.5°

高桨叶角设置/ High pitch setting: 30°

8. 液体/Fluids:

8.1 燃油/Fuel:

AVGAS 100 LL

8.2 滑油/Oil:

滑油符合规范/Oils conforming to

spec. SAE J1899 / MIL-L-22851

更多数据详见飞行手册 (No. 6.01.01) 第2章

For more details see AFM, Doc. No.

6.01.01,Section 2

9. 液体容量/Fluid capacities

9.1 燃油 标准燃油箱/

总共/Total

156 升/liters 41.2US Gallons

/Fuel: Standard Fuel Tank

可用/Usable:

152.2 升 /liters 40.2 US Gallons

长程燃油箱/Long Range

总共/Total

193 升/liters 51 US Gallons

Fuel Tank

可用/Usable:

189.2 升/liters 50US Gallons

9.2 滑油/Oil

最大/Maximum:

7.70 升/liters 8 qts

最小/Minimum:

3.785 升/liters 4 qts

9.3 冷却系统容量 /Coolant system capacity:

不适用/N/A

10. 空速/Air Speeds:

设计机动速度 VA /

小于 980kg /up to 980 kg

94 KIAS

Design Manoeuvring Speed VA

980 以上/above 980 kg

108 KIAS

襟翼放下速度 VFE/

完全襟翼/ full flaps

91 KIAS

Flap Extended Speed VFE

起飞襟翼/ take-off flaps

108 KIAS

最大结构巡航速度 VNO

129 KIAS

(=最大结构设计速度 VC) /

Maximum structural cruising speed VNO

(= Maximum structural design speed VC)

不许超越速度/

178 KIAS

Never exceed speed VNE

11. 最大运行高度/Maximum Operating Altitude:

5000 m (16 404 ft)

12. 气象能力/All weather Capability:

昼间目视 Day-VFR

夜间目视 Night VFR see Note 3

仪表飞行 IFR see Note 4

禁止进入已知或实际结冰条件飞行/Flight into expected or actual icing conditions is prohibited

13. 最大重量/Maximum Masses:

起飞/Take-off

实用类: 980 kg (2161 lb)

着陆/Landing	正常类: 1150 kg (2535 lb) 或
	1200 kg (2646 lb) 见注 11
	1092 kg (2407 lb) 或
	1150 kg (2535 lb) 见注 10
14. 重心范围/Centre of Gravity Range:	
前部限制/Forward limit	980 kg 以下/Up to 980kg 基准后 2.40m/ 2.40m behind Datum
后部限制/Rear limit	当 1200 kg/At 1200 kg 基准后 2.48m/2.48m behind Datum
	中间质量线性变化/Varying linearly with mass in between
	对于所有重量/for all 基准后 2.59m/2.59m behind Datum masses
	带长程燃油箱/ with Long Range Fuel Tank 基准后 2.55m/2.55m behind Datum
15. 基准/Datum:	2.194 m 机翼对接前缘处 In front of leading edge of stub-wing at the wing joint
16. (备用/reserved)	
17. 水平措施/Leveling Means:	楔比/wedge 600 : 31 背鳍前机身管状顶部表面 top surface of fuselage tube in front of dorsal fin
18. 最小飞行机组/Minimum Flight Crew:	1 (飞行员/Pilot)
19. 最大乘员 / Maximum Passenger Seating Capacity:	3
20. (备用/Reserved)	
21. 行李舱/货舱	
Baggage/Cargo Compartments	
位置/Location	最大允许负载/max. allowable Load
座椅后/Behind Rear Seats	30 kg (66.14 lbs)
行李舱/Baggage Tube	5 kg (11.02 lbs)
行李增加/With Baggage Extension	45 kg (100 lbs) 见注 9
22. 机轮与轮胎/Wheels and Tyres	
前机轮轮胎尺寸/Nose Wheel Tyre Size	5.00 - 5
主机轮轮胎尺寸/Main Wheel Tyre Size	6.00 - 6 或 5x6.0-6 见注 8 经批准的轮胎与等级, 详见《飞机维修手册 (No. 6.02.01)》 For approved Types and rating see AMM, Doc. No. 6.02.01
21. 保留/(Reserved):	不适用/N/A

2. IV. 使用与服务说明书/Operating and Service Instructions

飞机飞行手册/Airplane Flight Manual (AFM)	Document No. 6.01.01-E
Airplane Maintenance Manual (AMM) (incl. Airworthiness Limitations)	Document No. 6.02.01
Service Informations and Service Bulletins	

2. V. 注/Notes

1. 本合格审定适用于奥地利钻石公司生产的序列号从 40.006 到 40.200, 和加拿大钻石公司生产的序列号从 40.201 起的飞机, 序列号 40.010 除外。

This certification applies to Serial numbers 40.006 to 40.200 for production at Diamond-Austria and Serial numbers 40.201 and subsequent for production at Diamond-Canada, excluding Serial Number 40.010.

2. 批准的噪声等级是 EASA 噪声 TCDS 的一部分。

Approved Noise Levels are part of the EASA Noise TCDS

3. 如果使用夜间目视飞行规则, 必须纳入可选的设计更改 OÄM 40-064。

For Night VFR operation the optional design change OÄM 40-064 must be incorporated.

4. 如果使用仪表飞行规则, 必须纳入可选的设计更改 OÄM 40-067。

For IFR operation the optional design change OÄM 40-067 must be incorporated.

5. 如果用于牵引滑翔机, 必须纳入可选的设计更改 OÄM 40-063。

For glider towing operation the optional design change OÄM 40-063 must be incorporated.

6. 备用/Reserved

7. 文件 OÄM40-071 定义的长程燃油箱适用于生产序列号 40.030 和往后的飞机。

The Long Range Fuel Tank, as defined in OÄM 40-071, applicable for Serial Number 40.030 and subsequent.

8. 依据 MÄM 40-123 文件, 15x6.0-6 规格尺寸的轮胎仅批准与 18mm 的主起落架支柱连接; 或者依据 OAM 40-283, 与主起落架长支柱连接。

The tire dimension 15x6.0-6 is only approved in conjunction with the 18 mm MLG strut in accordance with MÄM 40-123 or the tall MLG strut in accordance to OAM 40-283

9. 如选择完成了 OÄM 40-163 文件规定的设计更改, 可增加行李负载。

The increased baggage load is applicable if the baggage extension, Optional Design Change OÄM 40-163 is installed.

10. 仅批准强制设计更改 MÄM 40-123 或按照 OÄM 40-283 安装的高主起落架支柱的着陆重量为 1150 kg (2535 lbs)。

The landing mass of 1150 kg (2535 lbs) is only approved with Mandatory Design Change MÄM 40-123 or the tall MLG strut in accordance to OÄM 40-283 is installed.

11. 只有安装了强制的设计更改 MÄM 40-227 和 MÄM 40-123 最大着陆质量 1150kg(2535lbs), 才可以批准 1200 kg (2646 lbs) 的最大起飞质量。

The maximum take off mass of 1200kg(2646lbs) is only approved if Mandatory Design Change MÄM 40-227 and MÄM 40-123 maximum landing mass of 1150 kg (2535lbs) is installed.

第 3 部分
SECTION 3

DA 40D

3. I. 概述/General

数据单号/Data Sheet No.: A.022

- | | |
|--|---|
| 1. a) 型号/Type | DA 40 |
| b) 型别/Variant | DA 40D |
| 2. 适航类别/Airworthiness Category: | |
| a) | Normal / 正常类 |
| b) | Utility/实用类 |
| 3. 型号合格证持有人/Type Certificate Holder | Diamond Aircraft Industries GmbH
N. A. Otto-Str. 5 A-2700 Wiener Neustadt
Austria
EASA. 21J. 052 |
| 4. 制造商/Manufacturer: | Diamond Aircraft Industries GmbH N. A.
Otto-Str. 5A-2700 Wiener Neustadt
Austria
AT. 21G. 001
Shandong Bin Ao Aircraft Industries
Co., Ltd Dagao, Zhanhua County, Binzhou
People's Republic of China
EASA .21G. 0014 |
| 5. 审查申请日期/ Certification Application Date: | 1997年2 月20 日
大改 OÄM 40-100-DA 40 D, 2002 年1 月
11日
20-Feb-1997
11-Jan-2002, for Major Change
OÄM 40-100 - DA 40 D |
| 6. JAA 推荐日期: /JAA Recommendation Date : | 2000年10 月24 日/24-Oct-2000 |
| 7. 奥地利民航局TC/Austro Control GmbH Type Certificate | FZ 021 JAA |
| 8. EASA 审定日期: /EASA Certification Date: | 2005年1 月21 日 (EASA 再次颁发)
21. January 2005 (reissue for EASA) |
| 9. 认可申请日期: /Validation Application Date: | 2003年10 月30 日/30-Oct-2003 |
| 10. CAAC 认可日期: /CAAC Validation Date: | 2004年10 月26 日/26-Oct-2004 |

3. II. 审定基础/Certification Basis

- | | |
|---|---------------------------|
| 1. 确定适用规章的参考日期: /Reference Date for
determining the applicable requirements: | 1998年10 月24 日/24-Oct-1998 |
| 2. (备用/Reserved) | |
| 3. (备用/Reserved) | |

4. 审定基础/Certification Basis: As defined in CRI A-01, latest Issue
5. 适航规章/Airworthiness Requirements: JAR-23, Change -, issued 11-Mar-1994Incl. Amdt.1
JAR-1, Change 5, issued 15-Jul-1996
6. 选择符合的规章/Requirements elected to comply: 无/none
7. 专用条件/Special Conditions: CRI E-05 使用航空煤油的活塞发动机
Reciprocating Engine using Jet Fuel
CRI E-06 对于活塞发动机, 柴油与柴油/航空
煤油混合的使用
Use of Diesel Fuel and Diesel/Jet Fuel Blends
for Reciprocating Engines
CRI E-09 发动机振动水平
Engine Vibration Level
CRI E-10 发动机扭矩
Engine Torque
CRI F-01 高能量辐射场(HIRF)的影响防护
Protection from the Effects of HIRF
CRI F-03 闪电影响及间接影响防护
Protection from the Effects of Lightning
Strikes, Indirect Effects
CRI F-06 柴油发动机与螺旋桨的全权数字
发动机控制(FADEC)安装
Installation of a FADEC Diesel Engine and Propeller
CRI F-07 集成电子系统里的人的因素
Human Factors in Integrated Avionics System
CRI F-08 软件、硬件保证级别和高度的集成
的或复杂的飞机系统
Software, Hardware Assurance Level and Highly,
Integrated or Complex Aircraft Systems
8. (备用/Reserved):
9. 等效安全/Equivalent Safety Findings: CRI D-01 单杆动力控制
Single Lever Power Control
CRI E-07 冷却液箱
Coolant Tank
CRI E-08 电子控制的活塞柴油发动机
Electronically-controlled Reciprocating Diesel
Engine
CRI E-11 燃油系统-热燃油温度
Fuel System - Hot Fuel Temperature
CRI F-05 动力装置仪表
Powerplant Instruments
10. 环境标准/Environmental Standards: 国际民航组织附件16, 第一卷,
1993年第3 版, 第7 次修正
ICAO, Annex 16, Volume 1, Third Edition, 1993, Amdt. 7.
1997年5 月23 日颁发的JAR-36
JAR-36, Issued 23-May-1997.

CRI A-03 其他国附加要求

for additional national requirements.

See Note 2

11. 认可审定基础/Validation Basis:

接受审定基础/Accept Certification Basis

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

1. 型号设计定义/Type Design Definition: 现行颁发的文件为No. 6.07.00 第0100/7章, 包括MÄM 40-075 及其后的设计更改

Current issue of Doc.No. 6.07.00, Chapter 0100/7 including Design Changes MÄM 40-001 to 40-075 and following.

2. 描述/Description:

单柴油发动机, 四座悬挂式下单翼机, 符合材料结构, 固定式三轮起落架, T型尾翼

Single diesel engine, four-seated cantilever low wing airplane, composite construction, fixed tricycle landing gear, T-tail

3. 设备/Equipment:

设备清单见飞行手册 (No. 6.01.05) 的第6章, 见注释9

Equipment list, AFM, Doc.No. 6.01.05,

Section 6. see Note 9

4. 几何尺寸/Dimensions:

翼展/Span	11.94 m	(39 ft 2 in)
长/Length	8.01 m	(26 ft 3 in)
高/Height	1.97 m	(6 ft 6 in)
机翼面积/Wing Area	13.54 m ²	(146 sqft)

5. 发动机/Engines:

1 台Thielert 公司发动机, 型号为: TAE125-01 或 TAE125-02-99, 见注10 和11

1 Thielert TAE 125-01 or TAE125-02-99

see Note 10 and Note 11

发动机 TCDS No: EASA E.055

Engine Type Certificate Data Sheet

EASA .055

5.1 计算机软件/Firmware:

见注释5/see note 5.

5.2 参数谱/ Mapping:

见注释5/see note 5.

5.3 发动机限制/Engine Limits:

最大起飞转速/Max take-off rotational 2300 r.p.m.
speed

最大连续转速(桨轴转速)/Max continuous 2300 r.p.m.
rotational speed (Propeller shaft
r.p.m)

动力装置限制参见AFM, 文档号 6.01.05 第二章/

For power-plants limits refer to AFM, Doc. No. 6.01.05, Section2

6. (备用/Reserved)

7. 螺旋桨/Propellers:

1 mt-Propeller MTV-6-A/187-129

EASA螺旋桨型号合格证数据单 P.094

1 mt-Propeller MTV-6-A/187-129

EASA Type Certificate Data Sheet P.094

7.1 设置/Settings

低桨叶角设置/Low pitch setting: 12°

高桨叶角设置/ High pitch 28°
setting:

8. 液体/Fluids:

8.1 燃油/Fuel:

Jet A-1 (ASTM 1655)

Diesel EN 590 see Note 6

8.2 滑油/Oil: 发动机/engine

Shell Helix Ultra 5W30 synthetic API SJ/CF
或Shell Helix Ultra 5W30 synthetic API SJ/CF
or

见飞行手册 Doc. No. 6.01.05 第2章

see AFM, Doc. No. 6.01.05, Section 2

齿轮箱/gearbox

Shell EP 75W90 API GL-4 或

Shell EP 75W90 API GL-4 or

见飞行手册 Doc. No. 6.01.05 第2章

see AFM, Doc. No. 6.01.05, Section 2

8.3 冷却液

蒸馏水/冷却器保护

/Coolant:

Distilled Water / Cooler Protection

更多数据详见飞行手册 (No. 6.01.05) 第2章

For more details see AFM, Doc. No. 6.01.05, Section 2.

9. 液体容量/Fluid capacities

9.1 燃油 标准燃油箱/

总共/Total

113.6升/liters 30US Gallons

/Fuel: Standard Fuel Tank

可用/Usable:

106.0升/liters 28 US Gallons

长程燃油箱/

总共/Total

155.2升/liters 41 US Gallons

Long Range Fuel Tank

可用/Usable:

147.6升/liters 39US Gallons

9.2 滑油/Oil

最大/Maximum:

6.0升/liters 6.3 qts

最小/Minimum:

4.5升/liters 4.8 qts

10. 空速/Air Speeds:

设计机动速度VA /

小于980kg /up to 980 kg

94 KIAS

Design Manoeuvring Speed VA

980以上/above 980 kg

108 KIAS

襟翼放下速度VFE/

全襟翼/ full flaps

91 KIAS

Flap Extended Speed VFE

起飞襟翼/ take-off flaps

108 KIAS

最大结构巡航速度VNO

129 KIAS

(=最大结构设计速度VC) /

Maximum cruising speed VNO

(= Maximum structural design speed VC)

不许超越速度VNE /

178 KIAS

Never exceed speed VNE

11. 最大使用高度/Maximum Operating Altitude: 5000 m (16 404 ft)

12. 气象能力/All weather Capability:

昼间目视Day-VFR

夜间目视 Night VFR

仪表飞行 IFR see Note 3

禁止进入已知或实际结冰条件飞行/

Flight into expected or actual icing conditions is prohibited

13. 最大质量/Maximum Masses:

起飞/Take-off	实用类/Utility Category: 980 kg (2161 lb)
	正常类/Normal Category: 1150 kg (2535 lb)
着陆/Landing	1092 kg (2407 lb)或
	1150 kg (2535 lb) 见注8

14. 重心范围/Centre of Gravity Range:

前部限制/Forward limit	980 kg以下/Up to 980kg	基准后2.40m/ 2.40m behind Datum
	当1150 kg/At 1150 kg	基准后2.46m/2.46m behind Datum
		中间质量线性变化/Varying linearly with mass in between
后部限制/Rear limit	对于所有重量/for all masses	基准后2.59m/2.59m behind Datum
	带长程油箱/ with Long Range Fuel Tank	基准后2.55m/2.55m behind Datum

15. 基准/Datum:

2.194 m 机翼对接前缘处
In front of leading edge of stub-wing at the
wing joint

16. (备用/reserved)

17. 水平措施/Leveling Means:

楔比/wedge 600 : 31 背鳍前机身管状顶部表面
top surface of fuselage tube in front of dorsal fin

18. 最小飞行机组/Minimum Flight Crew:

1 (飞行员/Pilot)

19. 最多成员座位数/

3.

Maximum Passenger Seating Capacity:

20. (备用/Reserved)

21. 行李舱/货舱

Baggage/Cargo Compartments

位置/Location	最大允许负载/max. allowable Load
座椅后/Behind Rear Seats	30 kg (66.14 lbs)
行李舱/Baggage Tube	5 kg (11.02 lbs)
行李增加/With Baggage Extension	45 kg (100 lbs) 见注7

22. 机轮与轮胎/Wheels and Tyres

不适用/N/A

前机轮轮胎尺寸/Nose Wheel Tyre Size 5.00 - 5

主机轮轮胎尺寸/Main Wheel Tyre Size 6.00 - 6 or

15x6.0 - 6 see note 4

经批准的轮胎与等级, 详见《飞机维修手册 (No. 6.02.01)》

For approved Types and rating see AMM, Doc. No. 6.02.01

3. IV. 使用与服务说明书/Operating and Service Instructions

飞机飞行手册/Airplane Flight Manual (AFM) Document No. 6.01.05-E

Airplane Maintenance Manual (AMM) Document No. 6.02.01

(incl. Airworthiness Limitations)

Service Informations and Service Bulletins

3.V. 注/Notes

1. 本合格审定适用于生产序列号从40.080、40.084, 和D4.001 起的飞机, 除了在奥地利生产的序列号D4.013、D4.111、D4.198、D4.199、D4.200 和D4.201 之外。序列号从40 DS001 起的飞机适用于在中国的生产。

This certification applies to Serial Numbers 40.080, 40.084 and D4.001 and subsequent, with the exception of serial number D4.013, D4.111, D4.198, D4.199, D4.200 and D4.201. Serial Numbers 40 DS001 and subsequent are applicable for the production in China.

2. 批准的噪声等级是 EASA 噪声 TCDS 的一部分。

Approved Noise Levels are part of the EASA Noise TCDS

3. 对于仪表飞行规则, 必须纳入可选的设计更改OÄM 40-136 或OÄM 40-193。

For IFR operation the optional design change OÄM 40-136 or OÄM 40-193 must be incorporated.

4. 依据 MÄM 40-123 文件, 15x6.0-6 规格尺寸的轮胎仅批准与 18mm 的主起落架支柱连接。

The tire dimension 15x6.0-6 is only approved in conjunction with the 18 mm MLG strut in accordance with MÄM 40-123.

5. 对于TAE 125-01 型或TAE 125-02-99 型发动机, 批准的软件(计算机软件和参数谱)版次见钻石公司的服务通告MSB D4-044 最新版本。

For approved engine software version (Firmware and Mapping) of TAE 125-01 or TAE125-02-99 see DAI Service Bulletin MSB, DA-044, latest issue.

6. 只有纳入了 MÄM 40-129 才可批准使用柴油。

Operation with Diesel fuel is only approved if MÄM 40-129 is incorporated.

7. 如果增加行李舱容积以增加行李舱载荷, 需要按OÄM 40-163 文件进行设计更改。

The increased baggage load is applicable if the baggage extension, Optional Design Change OÄM 40-163 is installed.

8. 只有安装了强制的设计更改 MÄM 40-123, 才可以批准 1150 kg (2535 lbs)的着陆质量。

The landing mass of 1150 kg (2535 lbs) is only approved with Mandatory Design Change MÄM 40-123 installed.

9. 只有纳入了OÄM 40-193 (IFR)或40-224 (VFR)才可以批准安装G1000 集成航电系统。对于经批准的软件版本, 参见DAI 服务通告MSB D4-045, 最新版次。

Installation of the G1000 Integrated Avionic System is only approved if OÄM 40-193 (IFR) or 40-224 (VFR) is incorporated. For approved software version see DAI Service Bulletin MSB D4-045, latest issue.

10. 经批准的安装在DA40 型飞机上的发动机: TAE 125-01 125-01-(005)-(), TAE 125-02-99 125-02-(0001)-()。

Approved engine model for installation in the DA 40: TAE 125-01 125-01-(005)-(), TAE 125-02-99

125-02-(0001)-()。

Engine IAE 125-02099 was previously approved as IAE 125-02

11. 将TAE125-01 型发动机改装为TAE125-02-99 型发动机的设计更改批准文件为: 包含OSB D4-055 的设计更改 MAM 40-256。

Engine retrofit installation from engine TAE 125-01 to TAE 125-02-99 is approved by Design Change MAM 40-256 with OSB D4-055.

第 4 部分
SECTION 4

DA 40F

4. I. 概述/General

数据单号/Data Sheet No. : A.022

1. a) 型号/Type

DA 40

b) 型别/Variant

DA 40F

2. 适航类别/Airworthiness Category:

正常类 / Normal

实用类, 见注 6 /Utility (see Note 6)

3. 型号合格证持有人/Type Certificate Holder

Diamond Aircraft Industries GmbH

N.A. Otto-Str. 5A-2700 Wiener Neustadt
Austria

EASA. 21J. 052

4. 制造商/Manufacturer:

Diamond Aircraft Industries GmbH

N.A. Otto-Str. 5A-2700 Wiener Neustadt
Austria

AT. 21G. 001

Diamond Aircraft Industries Inc.

1560 Crumlin Sideroad, London Ontario,
N5V 1S2 Canada

161-93 (TCCA)

1997年2 月20 日

5. 审查申请日期:

Certification Application Date:

VÄM 40-002, 2004 年7 月8 日

20-Feb-1997

8. July 2004 for VÄM 40-002

6. EASA 审定日期:

EASA Certification Date:

2005年4 月15 日

15 April 2005

7. 认可申请日期:

Validation Application Date:

2005年8 月8 日

8-Aug-2005

8. CAAC 认可日期:

CAAC Validation Date:

2006年6 月19 日

19-June-2006

4. II. 审定基础/Certification Basis

1. 确定适用规章的参考日期: /Reference Date for
determining the applicable requirements: 1998 年 10 月 24 日
24-Oct-1998

2. (备用/Reserved)

3. (备用/Reserved)

4. 审定基础/Certification Basis:

As defined in CRI A-01, latest Issue

5. 适航规章/Airworthiness Requirements:

JAR-23, Change -, issued 11-Mar-1994

JAR-1, Change 5, issued 15-Jul-1996

6. 选择符合的规章/Requirements elected to comply: JAR-23, NPA 23-3, ACJ Material
7. 专用条件/Special Conditions: CRI F-01, 高能量辐射场(HIRF)的影响防护
Protection from the Effects of HIRF
CRI F-03, 闪电影响及间接影响防护
Protection from the Effects of
Lightning Strikes, Indirect Effects
CRI 0-01, 滑翔机牵引/Glider Towing
CRI 0-02, 拖曳索回收装置
Tow Cable Retraction Mechanisms
8. (备用/Reserved):
9. 等效安全/Equivalent Safety Findings: 无/None
10. 环境标准/Environmental Standards: 国际民航组织附件16, 第1 卷, 第2 部分,
第 10 章, 修正案7, CRI A-03F
ICAO Annex 16, Volume 1, Part 2, Chapter10
Amendment 7, CRI A-03F
11. 认可审定基础/Validation Basis: 接受审定基础/Accept Certification Basis

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

1. 型号设计定义/Type Design Definition: 现行颁发的文件为No. 6.07.00 第V002/7 章
Current issue of Doc.No. 6.07.00,
Chapter V002/7
设计更改 VÄM 40-002 (包括和不包括VÄM
中
所列的设计更改)
Design Change VÄM 40-002 (including
and
excluding the design changes as listed in
the
VÄM).
2. 描述/Description: 单发、四座悬臂式下单翼飞机, 复合材料结
构,
固定前三点式起落架, T 型尾翼, 定距螺旋
桨
Single engine, four-seated cantilever low
wing
airplane, composite construction, fixed
tricycle
landing gear, T-tail, fix pitch propeller.
3. 设备/Equipment: 设备清单见飞行手册 (No.6.01.02) 的第6章
Equipment list, AFM, Doc.No. 6.01.02,
Section 6.
4. 几何尺寸/Dimensions:
- | | | |
|----------|---------|---------------|
| 翼展/Span | 11.94 m | (39 ft 2 in) |
| 长/Length | 8.01 m | (26 ft 3 in) |

高/Height	1.97 m	(6 ft 6 in)
机翼面积/Wing Area	13.54 m ²	(146 sqft)
5. 发动机/Engines:	1 台 Textron Lycoming O-360-A4M FAA 型号合格证数据单 286 1 Textron Lycoming O-360-A4M FAA Engine Type Certificate Data Sheet 286	
5.1 发动机限制/Engine Limits:	最大起飞转速/Max take-off rotational 2700 r.p.m. speed 最大连续转速/Max continuous rotational 2700 r.p.m. speed (螺旋桨轴每分钟转速 /Propeller shaft r.p.m)	
动力装置限制参见飞行手册 (No. 6.01.02) 的第 2 章。 For power-plants limits refer to AFM, Doc. No. 6.01.02, Section 2		
6. (备用/Reserved)		
7. 螺旋桨/Propellers:	1 Sensenich 76EM8S10-0-63 FAA Propeller TCDS P4EA or 1 Muhlbauer MT 188R135-4G EASA TCDS P. 006	
8. 液体/Fluids:		
8.1 燃油/Fuel:	AVGAS 100 LL	
8.2 滑油/Oil:	滑油符合规范/Oils conforming to spec. SAE J1899 / MIL-L-22851 更多数据详见飞行手册 (No. 6.01.02) 第2章 For more details see AFM, Doc. No.6.01.02,Section 2	
9. 液体容量/Fluid capacities		
9.1 燃油	标准燃油箱/	总共/Total 156 升/liters 41.2 US Gallons
/Fuel:	Standard Fuel Tank	可用/Usable: 152.2 升/liters 40.2 US Gallons
	长程燃油箱/	总共/Total 193 升/liters 51 US Gallons
	Long Range Fuel Tank	可用/Usable: 189.2 升/liters 50 US Gallons
9.2 滑油/Oil	最大/Maximum:	7.70 升/liters 8 qts
	最小/Minimum:	3.785 升/liters 4 qts
10. 空速/Air Speeds:		
设计机动速度 V _A /	小于 980kg /up to 980 kg	94 KIAS
Design Manoeuvring Speed V _A	980 以上/above 980 kg	108 KIAS
襟翼放下速度 V _{FE} /	全襟翼/ full flaps	91 KIAS
Flap Extended Speed V _{FE}	起飞襟翼/ take-off flaps	108 KIAS
最大结构巡航速度 V _{SO}		129 KIAS
(=最大结构设计速度 V _C) /		
Maximum cruising speed V _{SO}		
(= Maximum structural design speed V _C)		
不许超越速度 V _{NE} /		178 KIAS
Never exceed speed V _{NE}		
11. 最大使用高度/Maximum Operating Altitude:	5000 m (16 404 ft)	
12. 气象能力/All weather Operations	昼间目视Day-VFR	

Capability:	夜间目视 Night VFR 仪表飞行 IFR 禁止进入已知或实际结冰条件飞行/ Flight into expected or actual icing conditions is prohibited
13. 最大质量/Maximum Masses:	
起飞/Take-off	实用类: 980 kg (2161 lb) 正常类: 1150 kg (2535 lb)
着陆/Landing	1150 kg (2535 lb)
14. 重心范围/Centre of Gravity Range:	
前部限制/Forward limit	980 kg 以下/Up to 980kg 基准后 2.40m/ 2.40m behind Datum
	当 1150 kg/At 1150 kg 基准后 2.46m/2.46m behind Datum 中间质量线性变化/Varying linearly with mass in between
后部限制/Rear limit	对于所有重量/for all 基准后 2.59m/2.59m behind Datum masses
	带长程燃油箱/ with Long 基准后 2.55m/2.55m behind Datum Range Fuel Tank
15. 基准/Datum:	2.194 mm 机翼对接前缘处 In front of leading edge of stub-wing at the wing joint
16. (备用/reserved)	
17. 水平措施/Leveling Means:	楔比/wedge 600 : 31 背鳍前机身管状顶部表面/wedge 600 : 31 top surface of fuselage tube in front of dorsal fin
18. 最小飞行机组/Minimum Flight Crew:	1 (飞行员/Pilot)
19. 最多成员座位数/ Maximum Passenger Seating Capacity:	3
20. (备用/Reserved)	
21. 行李舱/货舱 Baggage/Cargo Compartments	
位置/Location	最大允许负载/max. allowable Load
后排座位后/Behind Rear Seats	30 kg (66.14 lbs)
行李舱/Baggage Tube	5 kg (11.02 lbs)
行李扩展/With Baggage Extension	45 kg (100 lbs) 见注 5
22. 机轮与轮胎/Wheels and Tyres	
前轮轮胎尺寸/Nose Wheel Tyre Size	5.00 - 5
主轮胎尺寸/Main Wheel Tyre Size	6.00 - 6 or 15x6.0 - 6 see note 4 经批准的轮胎与等级, 详见《飞机维修手册 (No. 6.02.01)》 For approved Types and rating see AMM, Doc. No. 6.02.01

4. IV. 操作及维护说明/Operating and Service Instructions

飞机飞行手册/Airplane Flight Manual (AFM)	Document No. 6.01.02-E
Airplane Maintenance Manual (AMM)	Document No. 6.02.01
(incl. Airworthiness Limitations)	
Service Informations and Service Bulletins	

4.V. 注/Notes

1. 本合格审定适用于奥地利钻石公司生产的序列号从40.F001 起的飞机, 和加拿大钻石公司生产的序列号从40.FC001 起的飞机。

This certification applies to Serial numbers 40.F001 and subsequent for production at Diamond-Austria, and Serial numbers 40.FC001 and subsequent for production at Diamond-Canada.

2. 批准的噪声水平是EASA 噪声 TCDS 的一部分/Approved Noise Levels are part of the EASA Noise TCDS.

3. 备用/Reserved

4. 备用/Reserved

5. 如果增加行李舱容积以增加行李舱载荷, 需要按OÄM 40-163 文件进行设计更改。

The increased baggage load is applicable if the baggage extension, Optional Design Change OÄM 40-163 is installed.

6. 如果安装了OAM 40-201, DA40F 则具有主动尾旋能力

The DA 40F is certified for intentional spin if OAM 40-201 is installed.

以下是主动尾旋对飞机增加的限制和条件:

Following additional Limitations/Conditions apply:

- 重心范围2.45-2.50m
- 最大燃油装载2x38 公升 (2x10 加仑)
- 安装 OAM40-203 定义的座舱盖抛离系统
- 安装 Mt 螺旋桨 MT 188R135-4G。
- 升降舵的调整必须按照OAM 40-201
- 不必安装长航程油箱
- 不必安装轮罩
- 不允许有行李。

Center of Gravity Range 2,45-2,50m

Maximum fuel loading 2X38 liters(2x10gal)

Canopy Jettison System OAM 40-232 must be installed

Mt Propeller MT 188R135-4G must be installed

Elevator settings must be according to OAM 40-201

Long Rang Tank must not installed

Wheel fairings must not installed

Baggage is not allowed

第 5 部分
SECTION 5

DA 40 NG

5. I. 概述/General

数据单号/Data Sheet No.: EASA A.022

1. a) 型号/Type

DA 40

b) 型别/Model

DA 40 NG

c) 变型/Variant:

--

2. 适航类别/Airworthiness Category:

Normal / 正常类

3. 型号合格证持有人/Type Certificate Holder

Diamond Aircraft Industries GmbH
N.A. Otto-Str. 5
A-2700 Wiener Neustadt
Austria
EASA.21J.052

4. 制造商/Manufacturer:

Diamond Aircraft Industries GmbH
N.A. Otto-Str. 5
A-2700 Wiener Neustadt
Austria
AT.21G.0001

5. 审查申请日期/ Certification Application Date:

20-Feb-1997
17-Jan-2008, for Major Change VAM
40-V004
- DA 40 NG

6. 国家发证当局/National Certifying Authority

不适用/N/A

7. 国家当局型号合格证日期/National Authority Type Certificate

不适用/N/A

Date:

5. II. 审定基础/Certification Basis

1. 确定适用规章的参考日期/Reference Date for determining the applicable requirements: 24-Oct-1998

2. 适航规章/Airworthiness Requirements:

定义在 CRI A-01NG, 最新发布/
As defined in CRI A-01 NG, latest Issue
JAR-23, 1994 年 3 月 11 日发布, 包括修正案 1
JAR-23, Change -, issued 11-Mar-1994, incl. Amdt. 1
CRI E-05, 活塞发动机使用燃油
CRI E-05, Reciprocating Engine using Jet Fuel
CRI E-06, 活塞发动机柴油和柴油/燃油混合使用

3. 专用条件/ Special Conditions:

	CRI E-06, Use of Diesel Fuel and Diesel/Jet Fuel Blends for Reciprocating Engines
	CRI E-09, 发动机振动等级
	CRI E-09, Engine Vibration Level
	CRI E-10, 发动机扭矩
	CRI E-10, Engine Torque
	CRI F-01, HIRF 防护
	CRI F-01, Protection from the Effects of HIRF
	CRI F-03, 闪电直接和间接影响的防护
	CRI F-03, Protection from the Effects of Lightning Strikes,
	Indirect Effects
	CRI F-06, 柴油发动机和螺旋桨FADEC的安装
	CRI F-06, Installation of a FADEC Diesel Engine and Propeller
	CRI F-07, 集成航电系统的人为因素
	CRI F-07 Human Factors in Integrated Avionic Systems
4. 豁免/Exemptions:	无/None
5. 偏离/Deviations:	无/None
6. 等效安全/Equivalent Safety Findings:	CRI D-01, 单杆功率控制
	CRI D-01, Single Lever Power Control
	CRI E-07, 冷却水箱
	CRI E-07, Coolant Tank
	CRI E-08, 电控活塞柴油发动机
	CRI E-08, Electronically-controlled Reciprocating Diesel Engine
	CRI E-11, 燃油系统-热燃油温度
	CRI E-11, Fuel System - Hot Fuel Temperature
	CRI E-12 电燃油泵
	CRI E-12 Electric Fuel Pumps
	CRI B-01, 失速告警
	CRI B-01 Stall Warning
	CRI F-05, 动力装置仪表
	CRI F-05, Powerplant Instruments
7. 选出的符合性要求/ Requirements elected to comply:	无/none
8. 环境标准/ Environmental Standards:	ICAO, Annex 16, Volume 1, Chapter 10, 5. Edition CS-36, Amendment 1
9. 其它国家需求/Additional National Requirements:	不适用/N/A
10. 保留 (Reserved)	不适用/N/A

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

1. 型号设计定义/Type Design Definition: 当前有效 文档编号 6.07.00, 第V004/7章与设计更改VÄM 40-004; MÄM40-398; MÄM40-403; MÄM40-404; MÄM40-409; MÄM40-411; MÄM40-414; OÄM 40-306; OÄM 40-307 及随后的
Current issue of Doc.No. 6.07.00, Chapter V004/7 together with Design Changes VÄM 40-004, MÄM 40-398, MÄM 40-403, MÄM 40-404, MÄM 40-409, MÄM 40-411, MÄM 40-414, OÄM 40-306, OÄM 40-307 and following
2. 描述/Description: 单柴油发动机, 四座悬挂式下单翼机, 符合材料结构, 固定式三轮起落架, T型尾翼, 小翼(可选)
Single diesel engine, four-seated cantilever low wing airplane, composite construction, fixed tricycle landing gear, T-tail, winglets (option)
3. 设备/Equipment: 设备列表, 飞机飞行手册, 章节6,
Equipment list, AFM, Section 6
4. 几何尺寸/Dimensions:
- | | | |
|----------------|----------------------|--------------|
| 翼展/Span | 11.63 m | (38 ft 2 in) |
| 长/Length | 8.06 m | (26 ft 5 in) |
| 高/Height | 1.97 m | (6 ft 6 in) |
| 机翼面积/Wing Area | 13.24 m ² | (142.6 sqft) |
5. 发动机/Engine: 一台 Austro Engine E 4, 见注 7
1 Austro Engine E 4 see Note 7
发动机型号合格证数据单号 EASA E.200
Engine Type Certificate Data Sheet EASA E.200
- 5.1 固件/Firmware: 见注 3/see Note 3; MSB 40 NG-002
- 5.2 映射/ Mapping: 见注 3/see Note 3; MSB 40 NG-002
- 5.3 发动机限制/Engine Limits: 最大起飞转速/Max take-off rotational 2300 r.p.m.
speed
最大连续转速(桨轴转速)/Max continuous 2100 r.p.m.
rotational speed (Propeller
shaft r.p.m)
- For power-plants limits refer to AFM, Doc. No. 6.01.15-E, Section2
6. 载荷因数/Load factors:
- | | at VA | at VNE | with flaps in
T/O or LDG
position |
|-------------|-------|--------|---|
| 正/Positive: | 3.8 | 3.8 | 2.0 |
| 负/Negative | -1.52 | 0 | |
7. 螺旋桨/Propellers: 一套 1 mt-Propeller MTV-6-R/190-69
1 mt-Propeller MTV-6-R/190-69
EASA 螺旋桨型号合格证数据单号 P.094
EASA Propeller Type Certificate Data Sheet P.094
- 7.1 叶片数量/Number of blades: 3
- 7.2 直径/Diameter: 1900mm
- 7.3 旋转方向/Sense of Rotation: 顺时针/Clockwise

7.4 设置/Settings	低桨距设置/Low pitch setting:	14.5± 0.2° (@0.75R)
	高桨距设置/ High pitch setting:	35° ± 1.0° (@0.75R)
8. 液体/Fluids:		
8.1 燃油/Fuel:	Jet A , Jet A-1 (ASTM 1655), 见注6	
	Jet A , Jet A-1 (ASTM 1655) see Note 6	
8.2 滑油/Oil:	发动机/engine	Shell Helix Ultra 5W30 and 5W40
	齿轮箱/gearbox	Shell SPIRAX GSX 75W-80
8.3 冷却液	水/散热器保护混合物, 更多细节见AFM, Section 2	
/Coolant:	Water / Cooler Protection-Mixture	
	for more details see AFM, Section 2	
9. 液体容量/Fluid capacities		
9.1 燃油	标准燃油箱/	总共/Total 113.6 升/liters 30US Gallons
/Fuel:	Standard Fuel Tank	可用/Usable: 106.0 升/liters 28 US Gallons
	长程燃油箱/	总共/Total 155.2 升/liters 41 US Gallons
	Long Range Fuel Tank	可用/Usable: 147.6 升/liters 39US Gallons
9.2 滑油/Oil	最大/Maximum:	7.0 升/liters
	最小/Minimum:	5.0 升/liters
9.3 冷却液系统容量/Coolant system capacity:	大致 7 升/Approx. 7 Liter	
10. 空速/Air Speeds:		
运行机动速度 V_o /	up to 1080 kg	101 KIAS
Operating Manoeuvring Speed V_o	from 1080 kg to 1180 kg	108 KIAS
	Above 1180 kg	113 KIAS
襟翼放下速度 V_{FE} /	全襟翼/ full flaps	98 KIAS
Flap Extended Speed V_{FE}	起飞襟翼/ take-off flaps	110 KIAS
最大结构巡航速度 V_{NO}		130 KIAS
(=最大结构设计速度 V_c) /		
Maximum cruising speed V_{NO}		
(= Maximum structural design speed V_c)		
不许超越速度 V_{NE} /		172 KIAS
Never exceed speed V_{NE}		
11. 最大运行高度/Maximum Operating Altitude:	5000 m (16 404 ft)	
12. 全天候能力/All weather Capability:	昼间目视 Day-VFR	
	夜间目视 Night VFR	
	仪表飞行 IFR	
	禁止在已知或预计结冰条件下飞行	
	Flight into expected or actual icing conditions is prohibited	
13. 最大质量/Maximum Masses:		
起飞/Take-off	1280 kg (2822 lbs)	
着陆/Landing	1216 kg (2681 lbs)	
OAM 40-334	1280 kg (2822 lbs) see Note 8	
Minimum Flight	940 kg (2072 lbs)	

Maximum Zero Fuel	1200 kg (2646 lbs)	
14. 重心范围/Centre of Gravity Range:		
前部限制/Forward limit	从 940 kg 到 1080 kg 在 1280 kg/At 1280 kg	基准后 2.40m/2.40m behind Datum 基准后 2.46m/2.46m behind Datum 中间质量线性变化/Varying linearly with mass in between
后部限制/Rear limit		基准后 2.53m/2.53 m behind Datum
15. 基准/Datum:	2.194 mm	机翼对接前缘处/In front of leading edge of stub-wing at the wing joint
16. 控制面偏转/Control surface deflections:		
副翼/Aileron	上/up 下/down	20°, ± 2° 13°, +2/-2°
升降舵Elevator	上/up 下/down	21°, +0/-1° 17°, +1/-0°
调整片 (升降舵中立) /Trim tab (elevator neutral)	机鼻向上配平/ Trim nose up	+ 12°, ± 2°
方向舵/Rudder	机鼻向下配平/Trim nose down 左/Left 右/Right	- 39°, ± 2° 24°, ± 1° 26°, ± 1°
襟翼/Flaps		起飞襟翼设置为 20°, ± 2°/Take off flap setting 20°, ± 2° 着陆襟翼设置为 42°, ± 1°/Landing flap setting 42°, ± 1° 楔比/wedge 600 : 31 背鳍前机身管状顶部表面/wedge 600 : 31 top surface of fuselage tube in front of dorsal fin
17. 水平措施/Leveling Means:		
18. 最小飞行机组/Minimum Flight Crew:	1 (飞行员/Pilot)	
19. 最多成员座位数/ Maximum Passenger Seating Capacity:	3	
20. 行李舱/货舱		
Baggage/Cargo Compartments		
位置/Location		最大允许负载/max. allowable Load
后排座位后/Behind Rear Seats		30 kg (66.14 lbs)
行李舱/Baggage Tube		5 kg (11.02 lbs)
短行李增加/Short Baggage Extension		15 kg (33 lbs)
行李增加/With Baggage Extension		45 kg (100 lbs)
21. 机轮与轮胎/Wheels and Tyres		
前轮轮胎尺寸/Nose Wheel Tyre Size:	5.00 - 5,6PR, 120mph	
OAM 40-334:	6.00-6, 6 PR, see note 8	
主轮胎尺寸/Main Wheel Tyre Size	15x6.0-6,6PR, 160 mph	
OAM 40-334:	8.50-6, 6 PLY, see note 8	
22. 保留/(Reserved):	不适用/N/A	

5. IV. 操作及维护说明/Operating and Service Instructions

1. 飞行手册/Flight Manual
飞机飞行手册, 文件号6.01.15-E
Airplane Flight Manual Doc. No. 6.01.15-E
2. 技术手册/Technical Manual:
飞机维修手册 (AMM) (含适航限制) 文件 No. 6.02.15/

- Airplane Maintenance Manual Doc. No. 6.02.15
(incl. Airworthiness Limitations)
·服务信息和服务通告
Service Informations and Service Bulletins
3. 备件目录/Spare Parts Catalogue: 图解零件目录文件6.03.15/Illustrated Parts Catalogue Doc.
No. 6.03.15
4. 仪器和总数/ Instruments and aggregates: 参考飞机维修手册文件6.02.15第一章/refer to AMM Doc. No.
6.02.15Chapter 1

5. V 注/Notes:

1. 本合格证适用于奥地利生产的系列号D4.111, D4.365, 40.N001 和后继系列产品。系列号为40.080, 40.084, D4.001和随后在奥地利生产的DA40D飞机可能通过钻石批准的服务通告OSB D4-080转变为DA 40 NG。
This certification applies to Serial Numbers D4.111, D4.365, 40.N001 and subsequent, for the Production in Austria. DA 40 D airplanes with Serial Numbers 40.080, 40.084, D4.001 and subsequent manufactured in Austria may be converted to Model DA 40 NG by DAI approved Service Bulletin OSB D4-080.
2. 批准的噪声等级是EASA噪声TCDS的一部分。
Approved Noise Levels are part of the EASA Noise TCDS.
3. 对于批准的E 4发动机软件版本见DAI服务通告MSB 40NG-002, 最新版。
For approved E4 engine software version see DAI Service Bulletin MSB 40NG- 002, latest issue.
4. 如果安装可选的设计更改OÄM40-331, 短行李扩展的行李负载是适用的; 如果行李扩展—安装可选的设计更改OÄM 40-164, 行李负载增长45 kg (100 lbs)是适用的。
The baggage load in the short baggage extension is applicable if Optional Design Change OÄM 40-331 is installed. The increased baggage load of 45 kg (100 lbs) is applicable if the baggage extension, Optional Design Change OÄM 40-164, is installed.
5. 对于G1000集成航电系统已批准的软件版本见DAI服务通告MSB 40NG-003, 最新版
For approved software version of the G1000 Integrated Avionic System see DAI Service Bulletin MSB 40NG-003, latest issue.
6. 对于燃料批准细节见AFM Section 2. JET A, JET A-1 (ASTM D 1655) 和 TS-1 (俄罗斯 GOST 10227-86), TS-1 (乌克兰, GSTU 320.00149943.011-99), RT (俄罗斯, GOST 10227-86), RT (乌克兰 GSTU 320.00149943.007-97), No. 3 Jet Fuel (中国, GB 6537-2006) and JP-8 (F34) (美国, MIL-DTL-83133G-2010)是已批准的燃料类型。
For detailed approved Jet Fuel Types see AFM Section 2. JET A, JET A-1 (ASTM D 1655), TS-1 (Russia, GOST 10227-86), TS-1 (Ukraine, GSTU 320.00149943.011-99), RT (Russia, GOST 10227-86), RT (Ukraine GSTU 320.00149943.007-97), No. 3 Jet Fuel (China, GB 6537-2006) and JP-8 (F34) (USA, MIL-DTL-83133G-2010) are approved fuel types.
7. 批准安装在DA 40NG 上的发动机型号构型: E4-A
Approved engine model configuration for installation in the DA 40 NG: E4-A
8. 最大着陆重量1280kg仅适用于当安装了可选的设计更改OÄM 40-334 (加固、支柱和大轮)的情况。对于批准的机轮的品牌和类型参考飞行手册和维修手册。
The Maximum Landing Mass of 1280 kg is only applicable, if Optional Design Change OÄM 40-334 (reinforcements, struts and large wheels) is installed. For approved wheel brands and types refer to the AFM and AMM.