

型号认可证数据单
THE VALIDATION DATA SHEET

编号/No.: VTC0371P

版次/Revision: 0

型别/Model:

H-FSH_3-D-R_I_RX_C

H-FSH_3-D-R_I_AN6_C

H-FSH_3-D-R_I_AN8_C

批准人/Approved by:



日期/Data: 2022 年 8 月 1 日

本数据单是型号认可证（编号：VTC0371P）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 a part of Validation Type Certificate (No: VTC0371P), prescribes conditions and limitations 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:

SOCIETE DUC t/a DUC Hélices Popellers
Aerodrome de Villefranche-Tarare
289 Avenue Odette et Edouard Durand
69620 Frontenas
France

第1部分 概述

SECTION 1 GENERAL

1. 型号认可证数据单版次信息以及修订记录/ Revision and Change Record of the Validation of Type Certificate Data Sheet

数据单版次信息/Revision of the Data Sheet

	型号认可证数据单编号、版次和颁发日期 Validation of Type Certificate Data Sheet Number, Revision and issuance date	型号合格证数据单编号、版次和颁发日期 Type Certificate Data Sheet Number, Revision and issuance date
当前 Current	VTC0371P, 第0版, 2022年8月1日 VTC0371P, Issue: 0, August 01, 2022	EASA TCDS No.P.038, 第03版, 2019年7月8日 No. P.038, Issue: 03, July 08, 2019

注：上表中出口国局方型号合格证数据单信息仅供参考

Note: Above TCDS information of Certification Authority is only for reference

数据单修订记录/ Change Record of the VTCDS

版次/ Revision	相对上一版的修订记录 Change Record	备注 Remark
版次 0/Rev 0	无	

2. 认可当局/Validation Authority:

中国民用航空局/CAAC

审定当局/Certifying Authority:

欧盟航空安全局/EASA

3. 型号合格证持有人/Type Certificate Holder:

SOCIETE DUC t/a DUC Hélices Popellers
Aerodrome de Villefranche-Tarare
289 Avenue Odette et Edouard Durand
69620 Frontenas
France

4. 生产制造商/Manufacturer

SOCIETE DUC t/a DUC Hélices Popellers
Aerodrome de Villefranche-Tarare
289 Avenue Odette et Edouard Durand
69620 Frontenas
France

5. 双发延程飞行/ETOPS:

不适用/N/A

6. CAAC 专用要求/Special Requirements:

无/NONE

第2部分 数据单

SECTION 2 DATA SHEET

(H-FSH_3-D-R_I_RX_C、H-FSH_3-D-R_I_AN6_C、H-FSH_3-D-R_I_AN8_C)

1. 产品型别和批准日期/Model and Approval Date

产品型别 Model	申请日期 Application Data	批准日期 Approval Date	类别 category
H-FSH_3-D-R_I_RX_C H-FSH_3-D-R_I_AN6_C H-FSH_3-D-R_I_AN8_C	2014年4月30号 30 April 2014	2016年7月7日批准 07 July 2016	螺旋桨 propeller

2. 认可审定基础和生产依据/ Certification Basis and Production Basis

型别/Model: H-FSH_3-D-R_I_RX_C、H-FSH_3-D-R_I_AN6_C、H-FSH_3-D-R_I_AN8_C	
适航标准/Airworthiness standard	CS-P 第 1 修正案, 2006 年 12 月 16 生效。 CS-P amendment 1, dated November 16, 2006
专用条件/ Special Conditions	无/None
等效安全/ ELOS	无/None
豁免/ Exemption	无/None
环 保 要 求 /Environmental Standards including Noise	不适应/Not applicable
生产依据/Production Basis	无/None

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

型号设计定义/ 三桨叶, 地面可调桨距螺旋桨。

Type Design Definition Three blade, ground adjustable pitch propeller.

Definition

见2016年7月1日发布零件清单/Part List: DH_FSH_BE_04_G, dated 01/07/2016

见2019年4月2日发布零件清单/Part List: DH_FSH_BE_04_H, dated 02/04/2019

匹配发动机 H-FSH_3-D-R_I_RX_C型别, 采用法兰连接, 配装BRP-Rotax 912型别和914型别发动机

Adaptation to

Engine

H-FSH_3-D-R_I_RX_C for BRP-Rotax 912 and 914 engine flange

H-FSH_3-D-R_I_AN6_C型别, 采用SAE发动机法兰, 配AN6螺栓

H-FSH_3-D-R_I_AN6_C engine SAE flange with AN6 bolts

H-FSH_3-D-R_I_AN8_C型别, 采用SAE发动机法兰, 配AN8螺栓

H-FSH_3-D-R_I_AN8_C engine SAE flange with AN8 bolts

桨毂材料/Hub Material	碳纤维增强复合材料/Carbon fibre reinforced composite		
桨叶材料/Blade Material	碳纤维增强复合材料/Carbon fibre reinforced composite 桨叶保护套为镍护套/The blades are protected by a nickel sheath.		
桨叶数量/ No. of Blades	3片/Three		
螺旋桨型别 Propeller Model	桨毂/桨叶组合 Hub / Blade Combinations		
	型别/Model	半桨毂/Half Hubs	桨叶/Blade
	H-FSH_3-D-R_I_RX_C	DMFSH-3-AV_RX_C	FSH-D-R_I_C
		DMFSH-3-AR_RX_C	
	H-FSH_3-D-R_I_AN6_C	DMFSH-3-AV_AN6_C	FSH-D-R_I_C
		DMFSH-3-AR_AN6_C	
	H-FSH_3-D-R_I_AN8_C	DMFSH-3-AV_AN8_C	FSH-D-R_I_C
		DMFSH-3-ARV_AN8_C	
重量 Weight	型别H-FSH_3-D-R_I_RX_C: 最大5.6 kg 型别H-FSH_3-D-R_I_AN6_C: 5.6 kg 型别H-FSH_3-D-R_I_AN8_C: 6 kg		
尺寸 Dimensions	直径: 152 to 190 cm		
最大起飞功率和速度 Maximum Take Off Power and Speed	最大起飞功率(kW) Max. Take-Off Power (kW) 120 (160 hp)	最大起飞转速(螺旋桨rpm) Max. Take-Off Speed (Propeller rpm) 2700	直径(cm) Diameter (cm) 152 to 190
最大连续功率和速度 Maximum Continuous Power and Speed	最大连续功率(kw) Max. Continuous Power (kW) 120 (160 hp)	最大连续转速(螺旋桨rpm) Max. Continuous Speed (Propeller rpm) 2700	直径(cm) Diameter (cm) 152 to 190
安装限制/ Installation Limitation	螺旋桨已通过CS-P A、B和C分部认证。尚未表明与特定飞机安装相关的D部分要求。 This Propeller has been certificated in accordance with CS-P subparts A, B and C. Compliance with the requirements of Subpart D, which is specific to each aircraft installation, has not yet been demonstrated.		

根据第21.A.14(c)的规定, SOCIETE DUC已选择表明有能力向认证机构提供第21.A.20(b)条所要求的认证程序。因此, 该螺旋桨被限制在ELA1类飞机上安装。
In accordance with paragraph 21.A.14(c), SOCIETE DUC have chosen for demonstration of capability to provide the Agency with the certification programme required by point 21.A.20(b). As a consequence, the propeller is restricted for installation on ELA1 aircraft.

已经在活塞发动机上进行了螺旋桨耐久性测试。

This propeller has been tested for endurance on a piston engine.

螺旋桨桨距角 桨距在距离叶尖25cm处测得
Propeller Pitch Angle Pitch is measured at 25 cm from the blade tip.

旋转方向 Direction of Rotation 右旋, 从飞行方向看
Right, viewed in flight direction

4. 批准的技术资料/Approved Technical Documents

名称/Names	编号/ID
手册/Manuals	
3 桨叶 FLASH-R 取证螺旋桨安装手册 Manuel d'instruction Hélice Tripale FLASH-R Certifiée	2019 年 5 月 6 日发布, 编号: DH_FSH-R_BE_03_B 06/05/2019/
3 桨叶 FLASH-R 取证螺旋桨安装手册 Instruction manual 3-blade propeller Certified FLASH-R	2019 年 5 月 6 日发布, 编号: DH_FSH-R_BE_04_A 06/05/2019
持续适航手册/Instructions for Continued Airworthiness (ICA)	
3 桨叶 FLASH-R 取证螺旋桨安装手册, 第 7 章节: 持续适航 Manuel d'instruction Hélice Tripale FLASH-R Certifiée chapter 7. "Maintien de Navigabilité"	2019 年 5 月 6 日发布, 编号: DH_FSH-R_BE_03_B 06/05/2019
3 桨叶 FLASH-R 取证螺旋桨安装手册, 第 7 章节: 持续适航 Instruction manual 3-blade propeller Certified FLASH-R chapter 7. "Continuing airworthiness"	2019 年 5 月 6 日发布, 编号: DH_FSH-R_BE_04_A 06/05/2019
TBO 安装手册 Manuel d'instruction TBO	待发布, 编号: DH_TBO_BE_01_A (to be published)/
服务通告/Service Bulletins	由 SOCIETE DUC 发布: as published by SOCIETE DUC

5. 注释/NOTE

注释 1/NOTE 1 保留/Reserved.

注释 2/NOTE 2 保留/Reserved.

注释 3/NOTE 3 保留/Reserved.

注释 4/NOTE 4 保留/Reserved.

注释 5/NOTE 5 保留/Reserved.

注释 6/NOTE 6 保留/Reserved.

注释 7/NOTE 7 螺旋桨可选装一个碳玻璃纤维增强复合材料锥体和/或者一个间隔装置。
The propeller is optionally equipped with a carbon and glass fibre reinforced composite cone, and/or a spacer.

注释 8/NOTE 8 保留/Reserved.

注释 9/NOTE 9 保留/Reserved.

注释 10/NOTE 10 保留/Reserved.

注释 11/NOTE 11 保留/Reserved.

注释 12/NOTE 12 The EASA approved Airworthiness Limitations Section of the Instructions for Continued Airworthiness is published in the applicable "Manuel d'instruction Hélice Tripale FLASH-R Certifiée" document, chapter 7.1 "Limites de Navigabilité", and in the applicable "Instruction manual 3-blade propeller Certified FLASH-R", chapter 7.1 "Airworthiness limitations".

EASA 批准的持续适航手册的适航性限制章节见文档 “Manuel d'instruction Hélice Tripale FLASH-R Certifiée” 和文档 “Instruction manual 3-blade propeller Certified FLASH-R” 的 7.1 节。

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