

型号认可证数据单

TYPE VALIDATION CERTIFICATE DATA SHEET

编号/No:	VTC0237P
版次/Revision:	0
型号/Type:	Hartzell 系列螺旋桨
	BHC-J2YF-1/7694
批准人/Approved By:	徐彭辉
日期/Date:	2010-4-6

本数据单是型号认可证(编号: VTC0237P)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: VTC0237P), 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:
Hartzell Propeller Inc
Piqua, OH 45356 U.S.A

有效页清单/List of effective pages :

页数/ Pages	1	2	3	4	5	6								
版次/Revision	0	0	0	0	0	0								

中国民用航空局
CIVIL AVIATION ADMINISTRATION OF CHINA

第1部分 概述/Section 1 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: VTC0237P; 版次: 0; 颁发日期: 2010年4月6日 No. VTC0212P; Revision 0; Date of Issue: 2010-3-3	编号: P37EA; 版次: 9; 颁发日期: 2001年9月24日 No. P37EA; Revision: 9; Date of Issue: 2001-9-24
历史 History	无 NONE	不适用 N/A

2. 类别/Category: 螺旋桨/ Propeller

3. 认可当局/Validation Authority: 中国民用航空局/CAAC
审定当局/Certifying Authority: 美国联邦航空局/FAA

4. 型号合格证持有人/ Type Certificate Holder: Hartzell Propeller Inc
Address: Piqua, OH 45356 U.S.A

5. 制造商/Manufacturer: Hartzell Propeller Inc

6. ETOPS: 不适用 /NA

7. CAAC专用要求/CAAC Special Requirements: 无/NONE

第2部分/Section 2

A. 审定基础/Certification Basis

1. 适航标准/ Airworthiness Standards:

1965年2月11日生效的联邦航空规章第35部第35-1和35-2修正案;

Federal Aviation Regulation Part 35 effective February 1, 1965, with Amendments 35-1 and 35-2 thereto.

型号合格证编号: P37EA于1971年2月26日在联邦航空规章第21部DOA程序批准下颁发, 申请日期为1971年2月9日。

Type Certificate no. P37EA issued February 26, 1971 under Delegated Option Authorization procedures of Part 21 of the Federal Aviation Regulations. Date of application for Type Certificate: February 9, 1971.

2. 专用条件/ Special Conditions (SC): 无/ none

3. 等效安全项目/ Equivalent Safety Findings (ESF): 无/ none

4. 偏离/Deviations: 无/none

5. 环境标准/Environmental Standards: 无/none

6. 生产基础/Production Basis: 生产许可证第10号。/ Production Certificate no.10.

B. 技术特性/Technical Characteristics

类型/Type: 恒速型; 液压 (见注3和4) / Constant speed; hydraulic (see Notes 3 and 4)

发动机轴/Engine Shaft: 专用安装 (见注1) /Special flange (see Note 1)

桨毂材料/ Hub material: 铝合金/Aluminum Alloy

桨叶材料/Blade material: 见下/See below

桨叶数/Number of blades: 两个/Two

毂型号/Hub models: BHC-J2YF-1

桨叶/Blades (见注2/See Note 2)	最大连续 Maximum Continuous 马力 HP 转数 RPM		起飞/Takeoff 马力 HP 转数 RPM		直径限制/Diameter Limits (见注2/ See Note 2)	最大全重/Approx. Max. Wt. Complete (供参考/For Reference Only) (见注3和7/See Notes 3 and 7)	桨叶结构 Blade Construction
7694-0至7694-10 7694-0 to 7694-10	210	2800	210	2800	76英寸至66英寸 (-0至-10) 76" to 66" (-0 to -10)	53.51磅 53.51 lb	铝合金 Aluminum Alloy
7694-4至7694-10 7694-4 to 7694-10	310	2700	310	2700	72英寸至66英寸 (-4至-10) 72" to 66" (-4 to -10)	53.51磅 53.51 lb	铝合金 Aluminum Alloy

注1/NOTE 1: 桨毂型号标识/Hub Model Designation

BHC-J2YF-1 BF

B: 指示榫钉关于叶片插孔中心线的位置 (从边缘安装面看向桨毂看去) /Indicates dowel location with respect to centerline through blade sockets when viewing hub from flange mounting face

空白/Blank: 90° & 270°, 顺时针/clockwise

中国民用航空局
CIVIL AVIATION ADMINISTRATION OF CHINA

B: 30° & 210°, 顺时针/clockwise

C: 150° & 330°, 顺时针/clockwise

D: 60° & 240°, 顺时针/clockwise

HC: 哈策尔公司管理产品/ Hartzell Controllable

J: 基本设计—J意味着3个1/4英寸的整体轴延长/Identifies basic design-J denotes a 3 1/4 inch integral shaft extension

2: 桨叶数/Number of blades

Y: 哈策尔桨叶柄尺寸/Hartzell blade shank size

F: 安装边有6个1/2英寸螺栓和4英寸螺栓孔上的2个1/2英寸销子/F denotes special flange with six 1/2" bolts and two 1/2" dowels on a 4" bolt circle

I: 指特定的设计特性/ Denotes specific design features as:

-1: 非顺桨, 无配重, 调节器滑油压力增加桨距/non-feathering, no counterweights, governor oil pressure increases pitch

-2: 顺桨/feathering

BF: L表示左旋/L when used denotes left hand rotation

F表示修改的桨距调节系统/F denotes modified pitch change system

R表示一大块活塞面积 (见注4) /R when used denotes a large piston area (see note 4)

任何其它字母指不影响适用性的小改款型号/Any other character denotes minor change not affecting eligibility

注2/NOTE 2: 叶片型号标识/Blade Model Designation

76 94

76: 以英寸为单位的基本直径/Basic diameter in inches

94: 基本叶片型号/ Basic blade model

注3/NOTE 3: 桨距控制/ Pitch Control

(a) 批准使用哈策尔调节器控制, 见图纸C-4770和C-4772/Approved with Hartzell governors per drawings C-4770 and C-4772 重量: 4.5磅/Wt: 4.5 lb

(b) 批准使用X210XXX或X210X-XXX Woodward模型/Approved with Woodward model X210XXX or X210X-XXX 重量: 3.5磅/Wt: 3.5 lb

(c) 批准使用34-828-XXX Garwin 模型/Approved with Garwin model 34-828-XXX 重量: 3.0磅/Wt: 3.0 lb

注4/NOTE 4:

(a) 顺桨/feathering “-1”型 不具备此特性, “-2”型具备顺桨和非顺桨特性/ The -1 model does not feather. The -2 models incorporate feathering and unfeathering features.

(b) 反桨/Reversing 不适用/Not applicable

(c) 活塞尺寸/ Piston size “-2R”型具有20.2平方英寸活塞面积, 而“-2”型具有16.25平方英寸活塞面积/The -2R model differs from the -2 model in that the -2R model has a piston area of 20.2 sq. in. and the -2 has a piston area of 16.25 sq. in.

注5/NOTE 5: 左向型号/ Left-Hand Models

左向型号螺旋桨型号的批准版本与右向型号所列的级别和直径相同。(见注1和2) / The left-hand version of an approved propeller model is approved at the same rating and diameter as listed for the right-hand model. See Notes 1 and 2.

注6/NOTE 6: 互换性/ Interchangeability

(a) 叶片/Blades

当充气压力在70°F减少到80 psi压力时, 带有配重(加有“C”前缀)的叶片可以在活叶螺旋桨(桨毂带有后缀“-2”“-2R”)上代替非配重叶片。附属说明指示充气压力必须被相应改变/Blades with counterweights (having “C” prefix) can replace

中国民用航空局
CIVIL AVIATION ADMINISTRATION OF CHINA

non-counterweighted blades on feathering propellers (hub model suffix -2 or -2R) only, provided the air charge is reduced to 80 psi at 70°F. Attached decal specifying air charge must be changed accordingly.

(b) 螺旋桨/propellers

带有人桨距变动柄的“F”型螺旋桨可与带有标准桨距变动系统的螺旋桨互换，见注1和注2/“F” type propellers with large pitch change knobs are interchangeable with corresponding propellers with the standard pitch change system. See Note 1 and 2.

注7/NOTE 7: 附件/ Accessories

(a) 螺旋桨防冰/ Propeller anti-icing

(1) 依据Hartzell说明书H-S-2或Hartzell 133()手册安装时，批准使用符合Hartzell型号设计数据的充液装置/Approved with fluid feed boots listed on Hartzell approved type design data when installed in accordance with Hartzell specification H-S-2 or Hartzell Manual no.133().

(2) 批准使用充液装置，见Hartzell批准的型号设计数据/Approved with fluid feed equipment listed in Hartzell approved type design data on propeller models for which equipment is available.

(b) 螺旋桨除冰/Propeller deicing

(1) 依据1961年10月23日Goodyear AP-147号报告安装Goodyear破冰器（电子螺旋桨除冰器）时获得批准/Approved with Goodyear Ice Guards (electrical propeller deicer) when installed in accordance with installations outlined in Goodyear Report no. AP-147 dated October 23, 1961.

(2) 依据Goodrich ATA 30-60-07号报告安装Goodrich电子除冰原件5EXXXX.X, 7EXXXX-X, 77-XXX, 67-XXX, 或 65-XXX时获得批准/Approved with Goodrich electrical deicing kit 5EXXXX.X, 7EXXXX-X, 77-XXX, 67-XXX, or 65-XXX when installed in accordance with Goodrich Report no. ATA 30-60-07.

(c) 螺旋桨毂盖（毂盖附加重量）/Propeller spinner (weight of spinner extra)

使用Hartzell批准的型号设计数据上的Hartzell与其它制造商生产的毂盖时获得批准/Approved with Hartzell and other manufacture's spinners when listed on Hartzell approved type design data.

注8/NOTE 8: 整流罩/ Shank Fairings

不适用/Not applicable

注9/NOTE 9: 特别限制/ Special limits

螺旋桨-发动机联接表/Table of propeller – Engine Combinations

正常范畴单机牵引使用时批准/Approved Vibrationwise for Use on Normal Category Single Engine Tractor Aircraft

从振动观点确定的最大与最小螺旋桨直径见下表。不允许比最小直径值小，因为以下数据包括了出于修理目各直径减小的许可值/The maximum and minimum propeller diameters that can be used from a vibration standpoint are shown below. No reduction below the minimum diameter listed is permissible, since this figure includes the diameter reduction allowable for repair purposes.

桨毂模型 Hub Model	桨叶模型 Blade Model	发动机模型 Engine Model	最大直径（英寸） Max. Dia. (inches)	最小直径（英寸） Min. Dia. (inches)	注意事项 Placards
BHC-J2YF	F7694-(Y)T	TCM IO-550-N, -P, -R	72	70	避免在1850到2100 转/分之间进行连续地面操作 /Avoid continuous ground operation between 1850 and 2100 RPM

中国民用航空局
CIVIL AVIATION ADMINISTRATION OF CHINA

注10/NOTE 10: 特别声明/ Special Notes

螺旋桨安装必须作为飞机型号合格证的一部分被批准，并符合相关飞行器适航要求/Propeller installation must be approved as part of the aircraft Type Certificate and demonstrate compliance with the applicable aircraft airworthiness requirements.

注11/NOTE 11: 报废时间/Retirement Time

(a) 寿命限制和强制检查/Life Limits and Mandatory Inspections

(1) 适用时，适航限制在113()或117()号Hartzell手册中已有说明/Airworthiness limitations, if any, are specified in Hartzell Manuals 113() or 117().

结束

END