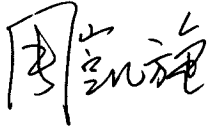


型号认可证数据单

TYPE VALIDATION CERTIFICATE DATA SHEET

编号/No:	VTC0205P
版次/Revision:	0
型号/Type:	Hartzell 系列螺旋桨
	HC-E5N-3
批准人/Approved By:	
日期/Date:	2008-2-28

本数据单是型号认可证(编号: VTC0205P)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: VTC0205P) , 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	7							
版次/Revision	0	0	0	0	0	0	0							

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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	VTC0205P、0、2008-02-28	No. P20NE, Revision 3, Date of Issue: December 19, 2006
历史 History	无 NONE	不适用 NA

2. 类别/Category: 螺旋桨/ Propeller

3. 认可当局/Validation Authority: 中国民用航空总局/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. 制造厂/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:

1980年10月14日生效的美国14CFR35部及其35-1至5修正案。

1989年12月18日根据14CFR21部J分部DOA程序美国颁发的型号合格证P20NE号。

1989年10月25日申请型号合格证。

14 CFR Part 35 effective October 14, 1980 with amendments 1 through 5.

Type Certificate No. P20NE issued December 18, 1989 under Delegation Option Authorization procedures of FAR Part 21 Subpart J.

Date of application for Type Certificate: October 25, 1989.

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

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

发动机轴专用安装 (见注1)。Engine shaft Special flange (see Note 1).

毂材料为铝合金。Hub material Aluminum Alloy.

桨叶材料见以下。Blade material See Below.

桨叶数: 五个。Number of blades Five.

毂型号: HC-E5N-3。Hub models HC-E5N-3

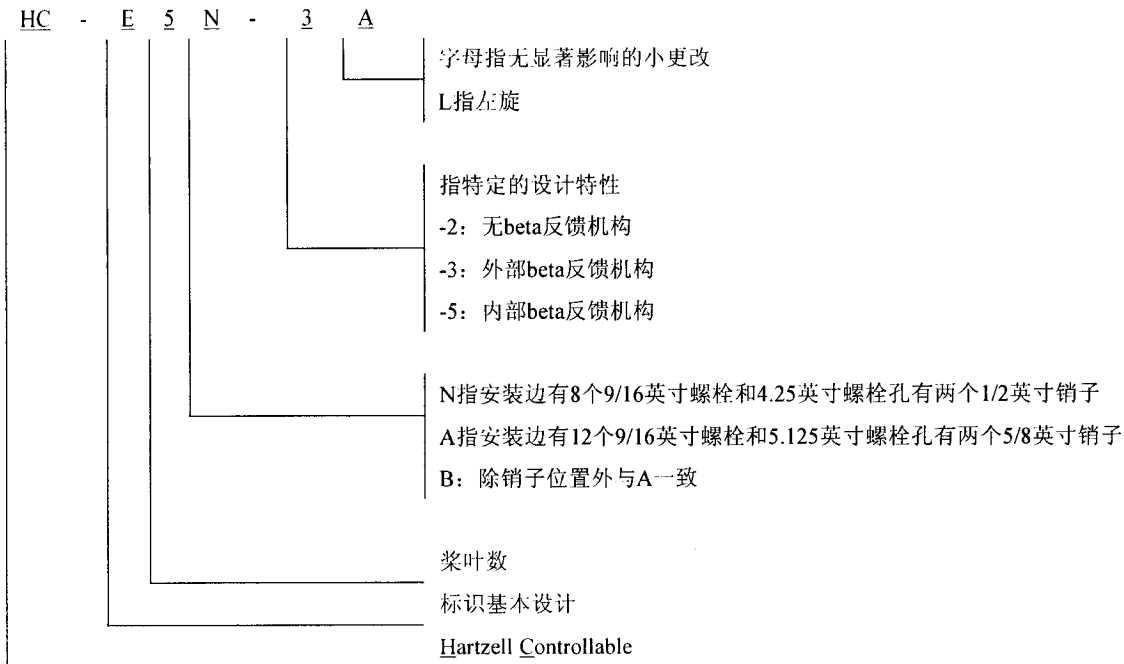
桨叶 (见注2)	最大连续 马力 转数 (RPM)	起飞 马力 转数 (RPM)	直径限制 (见注2)	最大全重 (供参考) (见注3和7)	桨叶结构 (见注10)
非配重桨叶 – PHC-J3YF-1					
E8218-0 至E8218-10	850 2200	850 2200	85英寸至75英寸 (-0至-10)	179磅	铝合金

Blades (See NOTE 2)	Maximum Continuous HP RPM	Takeoff HP RPM	Diameter Limits (See NOTE 2)	Approx. Max. Wt. Complete (For Reference Only) (See NOTES 3 and 7)	Blade Construction (See NOTE 10)
<u>HC-E5N-3</u>					
E8218-0 to E8218-10	850 2200	850 2200	85" to 75" (-0 to -10)	179 lb.	Aluminum Alloy

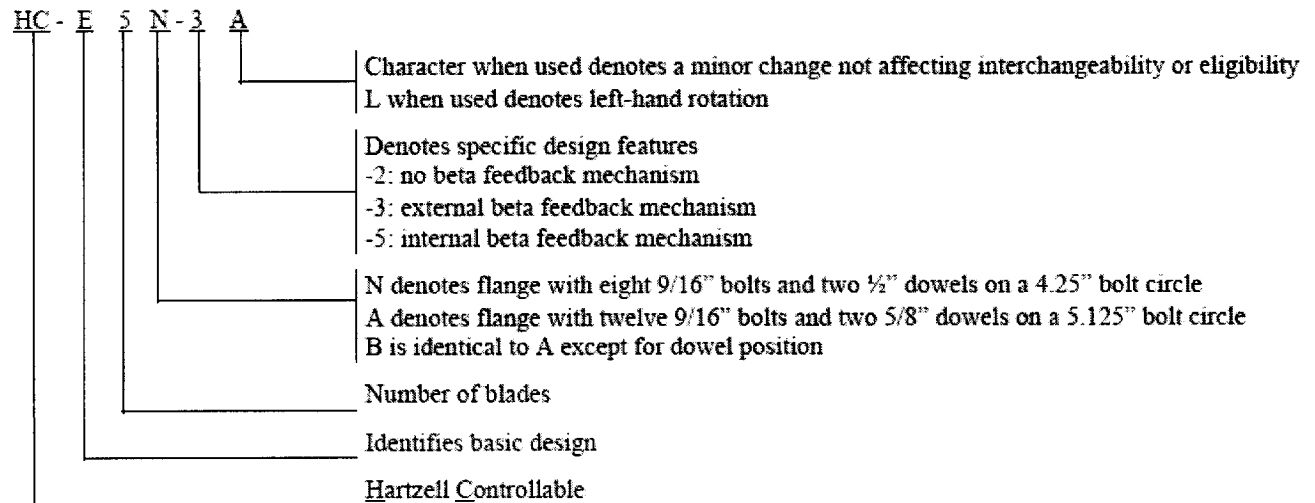
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注/NOTE:

1. 桨毂型号标识 (见注4和5)



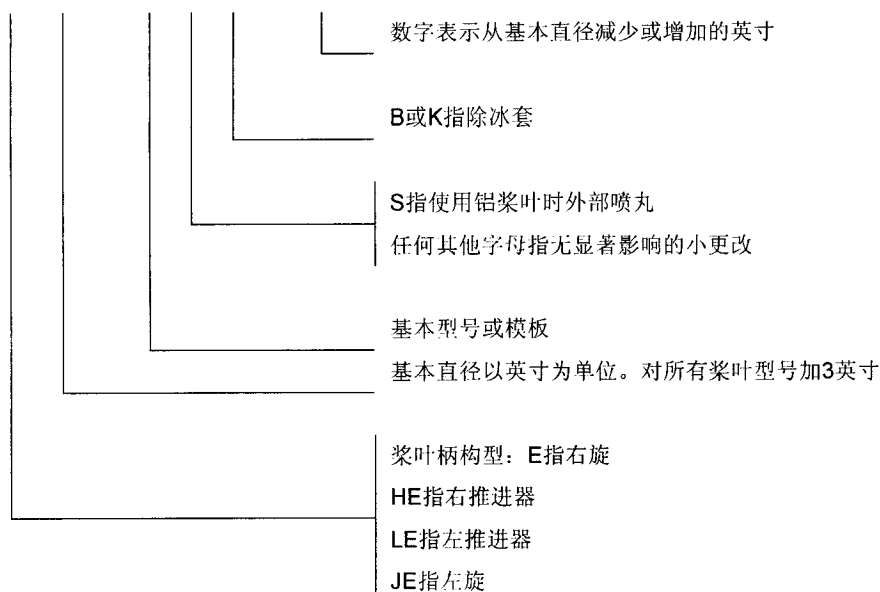
Hub Model Designation (See Notes 4 and 5)



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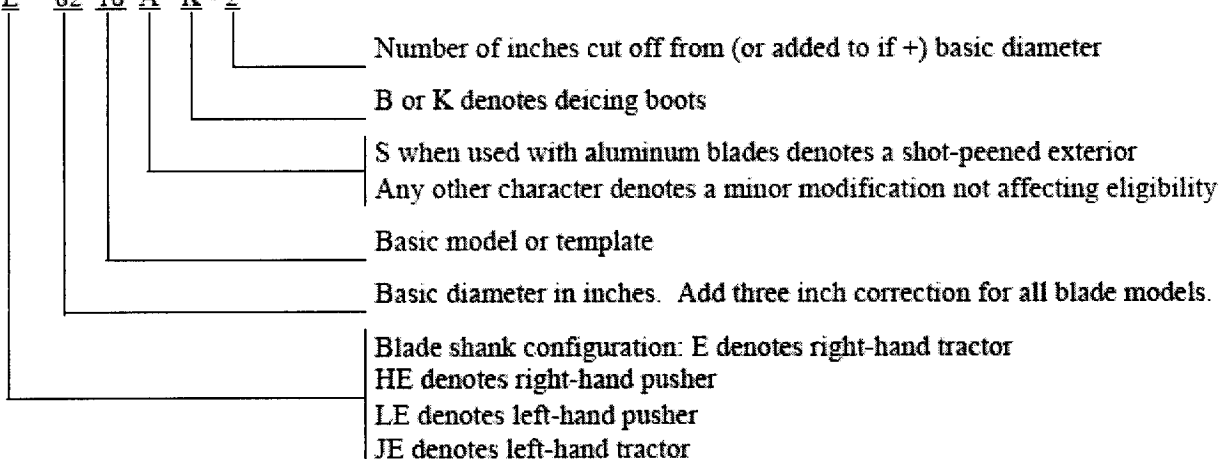
2. 桨叶的型号标识 (见注5和6)

E 82 18 A K - 2



Blade Model Designation (See Notes 5 and 6)

E 82 18 A K - 2



3. 桨距控制 (桨距控制附加重量) (见注4和10) / Pitch Control (weight of pitch control extra) (See Notes 4 and 10)

- (a) 最大输出压力: 700psig / Maximum output pressure: 700 psig
- (b) 所有型号螺旋桨具有配重桨叶和使用调节器滑油减小桨距。 / All propeller models have counterweighted blades and use governor oil to decrease pitch.
- (c) 任何影响或可能影响包括控制系统的发动机改变, 必须证明其结合螺旋桨包括其控制系统, 仍符合螺旋桨的审定基础。同样地, 任何螺旋桨的改变也必须仍然符合发动机的审定基础。 / Any change to the engine, including its control system, which affects or may affect the propeller approval must be substantiated to demonstrate that the propeller as integrated with the changed engine, including its control system, still complies with the propeller certification basis.
- (d) 无论何制造商, 所有调节器和螺旋桨控制系统必须作为航空器安装的一部分获得批准。 / All governors and propeller control systems must be approved as part of the aircraft installation regardless of manufacturer.

4. 顺桨 / Feathering:

- (a) -2、-3和-5型具备顺桨和非顺桨特性。 / The -2, -3 and -5 models incorporate feathering and unfeathering features.

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反桨 / Reversing:

- (a) -3和-5型与适当的反转控制一同批准作为反转螺旋桨的安装。 / The -3 and -5 models are approved for installation as reversing propellers with appropriate reversing controls.
- (b) -2型不反转。 / The -2 models do not reverse.

5. 左向型号 (见注1和2) / Left-Hand Models (see Notes 1 and 2)

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。

The left-hand version of an approved propeller model is approved at the same rating and diameter as listed for the right-hand model.

6. 互换性 (见注2) / Interchangeability (see note 2)

- (a) 喷丸桨叶可单个或整套替换非喷丸桨叶。 / Shot-peened blades may replace non shot-peened blades either individually or as a set.
- (b) 对于防冰系统部件的互换性, 参考Hartzell服务信函HC-SL-30-260。 / Refer to Hartzell Service Letter HC-SL-30-260 for ice protection system component interchangeability.

7. 附件/ Accessories

- (a) 螺旋桨螺旋器 (螺旋器附加的重量) / Propeller spinner (weight of spinner extra)
当列于Hartzell型号设计数据上时为批准的Hartzell和其它厂家的螺旋器。 / Approved with Hartzell and other manufacturers' spinners when listed on Hartzell type design data.
- (b) 螺旋桨除冰 (除冰系统附加的重量) / Propeller deicing (weight of deicing equipment extra)
 - (1) 当特定器材包号列在Hartzell型号设计数据上并按Goodrich报告号ATA 30-60-07安装时与Goodrich电除冰器材包5EXXXX-X, 7EXXXX-X, 65-XXX, 67-XXX, 或77-XXX一同批准 / Approved with Goodrich electrical deicing kit 5EXXXX-X, 7EXXXX-X, 65-XXX, 67-XXX, or 77-XXX when the specific kit number is listed on Hartzell type design data and installed in accordance with Goodrich Report no. ATA 30-60-07.
 - (2) 当按Safeway 安装手册、对于铝桨叶Hartzell 133()手册或对于复合桨叶135()手册以及相关STC或PMA文件安装时与Safeway 除冰设备一同批准。 / Approved with Safeway deice equipment when installed in accordance with Safeway Installation Manual, Hartzell Manual 133() for aluminum blades or Manual 135() for composite blades, and associated STC or PMA documentation.
 - (3) 当列于Hartzell 型号设计数据上时与防冰设备一同批准。 / Approved with ice protection equipment when listed on Hartzell type design data.
- (c) 螺旋桨滚筒驱动 (滚筒驱动的附加重量) / Propeller pulley drive (weight of pulley drive extra): 不适用 / Not applicable.

8. 叶柄整流罩: 不适用 / Shank Fairings Not applicable.

9. 特别限制: 不适用 / Special Limits: Not applicable.

10. 安装螺旋桨的批准必须作为飞机型号合格证的一部分, 且符合适用的飞机适航要求。

螺旋桨型号包括基本桨毂和桨叶型号, 多数螺旋桨型号包括附加符号以表明小变化和注1和2中解释的特征, 参照航空器型号合格证数据单确定适用于安装的审定特定螺旋桨型号。

带复合桨叶的螺旋桨批准装在任何型号航空器之前, 必须评价抗鸟击的能力。Hartzell螺旋桨必须完成测试和/或基于飞机构型和运行条件的分析, 以确定鸟击潜在的危害。

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Propeller installation must be approved as part of the aircraft Type Certificate and demonstrate compliance with the applicable aircraft airworthiness requirements.

Propeller models listed herein consist of basic hub and blade models. Most propeller models include additional characters to denote minor change and specific features as explained in Notes 1 and 2. Refer to the aircraft Type Certificate Data Sheet for the specific propeller model applicable to the installation.

Propellers with composite blades must be evaluated for bird impact resistance prior to approval on any type aircraft. Hartzell Propeller must perform tests and/or analyses based on aircraft configuration and operating conditions to determine the potential hazard as a result of a bird strike.

11. 报废时间/Retirement Time

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

(1) 如有适航性限制均列在Hartzell手册158 () 里。 / Airworthiness limitations, if any, are specified in Hartzell Manual 158().

12. 特别提示/Special Notes

(a) 超速和超扭限制见Hartzell手册第202 () 。 / Refer to Hartzell Manual no.202 () for overspeed and overtorque limits.

(b) 大修周期参考Hartzell服务信函HC-SL-61-61()。 / Refer to Hartzell Service Letter HC-SL-61-61() for overhaul periods.

结束

END