

型号认可证数据单

THE VALIDATION DATA SHEET

编号/No.: VTC0344P

版次/Revision: 0

型号/Type:

5D3

批准人/Approved by: Xu Chaoqun



职务/Title: Director General of CAAC-AAD

日期/Date: 2018-3-30

本数据单是型号认可证（编号：VTC0344P）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: VTC0344P), 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.

One Propeller Place, 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							

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	VTC0344P, 版次0, 2018年3月30日 VTC0344P, Revision 1, March 30, 2018	P00015CH, 版次1, 2016年5月26日 P00015CH, Revision 1, May 26, 2016

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.

One Propeller Place, Piqua, OH 45356, U.S.A
5. 双发延程飞行/ETOPS:

不适用/NA
6. CAAC 专用要求/CAAC Special Requirements:

无/None

第2部分 数据单

SECTION 2 DATA SHEET

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

发动机轴/Engine Shaft: 特殊法兰 (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: 碳纤维复合材料 (见注 10) /Carbon Composite (See Note 10)

桨叶数/Number of Blades: 5/Three

桨毂型号/Hub Model: 5D3-N338

桨叶(见注 2) Blade (see Note 2)	最大连续 Max. Cont.		起飞/Takeof		直径限制 (见注 2) Diameter Limits (see Note 2)	近似最大全重 (仅供参考) (见注 3 和 7) Approx. Max. Wt. Complete (Ref Only) (See Note 3 and 7)	桨叶构造 (见注 10) Blade Construction (See Note 10)
	马力 HP	转速 RPM	马力 HP	转速 RPM			
5D3-N338							
78D01-0 to 78D01-6	850	2000	850	2000	82.5" to 76.5" (-0 to -6)	132 lb.	碳纤维复合材料 Carbon Composite

审定基础: 螺旋桨型号根据 14CFR183 部 D 分部 ODA 程序进行批准

Certification Basis: Propeller models are approved in accordance with Organization Designation Authorization procedures of 14 CFR Part 183 Subpart D.

本型号合格证审定基础符合2013年3月19日生效的14 CFR 35部第35-1至35-9修正案。螺旋桨型号包括:

The certification basis for this Type Certificate is in accordance with 14 CFR Part 35 with amendments 35-1 through 35-9 effective March 19, 2013. Propellers model(s) include:

5D3-N338

生产基础: 生产许可证 10

Production Basis: Production Certificate no.10

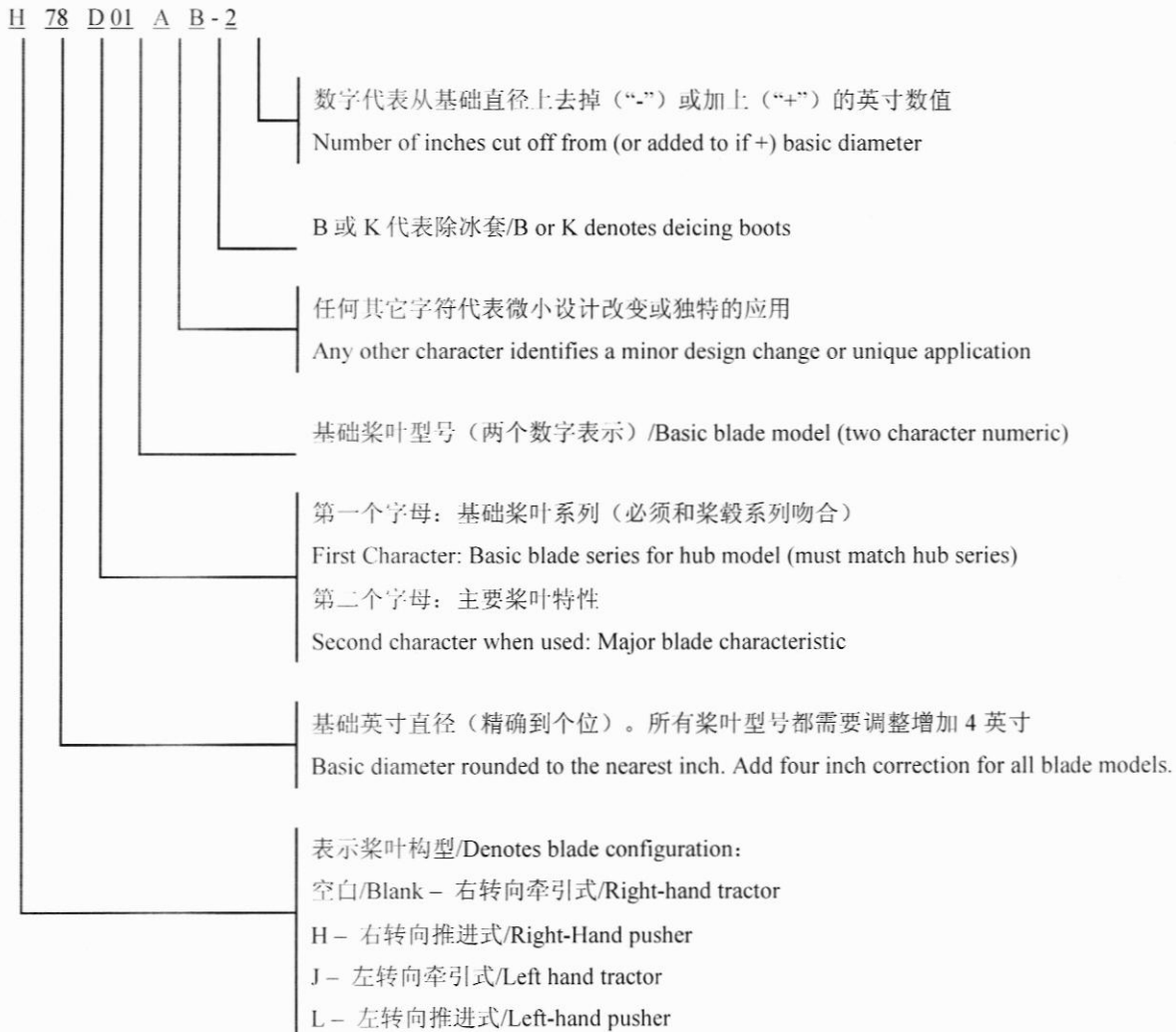
注 1/NOTE 1

桨毂型号标识（见注 4 和注 5）/Hub Model Designation (See Notes 4 and 5)

5	D	3 -	N	338	Al	一个或多个包含字母和数字的桨毂描述符号（第一个字符必须是字母） One or more alphanumeric hub descriptor (first character must be alpha) 任何字母字符是指不影响合格性的微小改变 Any alpha character listed here denotes a minor change not affecting eligibility 任何数字字符是指不影响合格性的微小改变 Any numeric character indicates minor configuration change not affecting eligibility L 代表螺旋桨左旋/ L when used denotes left-hand rotation 桨毂连接: 发动机法兰和桨叶中心线的距离（英寸） (小数点在第一位数字后面) 例如: 338 = 3.38 inches Extension: Distance in inches between engine flange and blade centerline (implied decimal after first digit) Example: 338 = 3.38 inches 安装法兰盘: N 代表在安装边 4.25 英寸螺栓圆周上有 8 个 9/16 英寸螺栓和 2 个 1/2 英寸定位销的法兰 Mounting flange: N denotes flange with eight 9/16" bolts and two 1/2" dowels on a 4.25" bolt circle 操作形式/Operating Mode: 3 – 恒速, 顺桨, 反桨, 外部 BETA 环/3 – Constant speed, feathering, reversing, external beta 预加载类型/Preload type : 基础桨毂系列/(D) Basic hub series (D) 桨叶数量/Number of blades
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注 2/NOTE 2

桨叶型号标识 (见注 5 和注 6) /Blade Model Designation (See Notes 5 and 6)



注 3/NOTE 3

桨距控制 (桨距控制附加的重量) (见注 4 和注 10)

Pitch Control (weight of pitch control extra) (See Notes 4 and 10)

- 最大输出压力/Maximum output pressure: 500 psi
- 所有螺旋桨型号使用带配重的桨叶, 以及利用调速器滑油减小桨距。
All propeller models have counterweighted blades and use governor oil to decrease pitch.
- 所有调速器和螺旋桨控制系统都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.

注 4/NOTE 4

顺桨/Feathering

- 5D3 型号带有顺桨和非顺桨特征/The 5D3 models incorporate feathering and unfeathering features.

反桨/Reversing

(b) 5D3 型号配备适当的反桨控制装置时, 被批准带有反桨功能。

The 5D3 models are approved for installation as reversing propellers with appropriate reversing controls.

注 5/NOTE 5

左转向型号 (见注 1 和注 2) /Left-Hand Models (see Notes 1 and 2)

经批准的螺旋桨型号的左转向和右转向版本的额定值和直径都是一样的

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

注 6/NOTE 6

互换性/Interchangeability

(a) 有关防冰系统部件的互换性, 请参阅Hartzell服务信函HC-SL-30-260

Refer to Hartzell service Letter HC-SL-30-260 for ice protection system component interchangeability

注 7/NOTE 7

附件/Accessories

(a) 螺旋桨整流罩 (桨帽附加的重量) /Propeller spinner. (weight of spinner extra)

(1) 与列于Hartzell型号设计资料上的Hartzell和其他厂家的整流罩一同批准

Approved with Hartzell and other manufacturers' spinners when listed on Hartzell type design data.

(2) 所有螺旋桨整流罩必须作为航空器安装的一部分被批准, 不管哪个厂家 (见注10)。

All propeller spinners must be approved as part of the aircraft installation regardless of manufacturer. (See NOTE 10)

(b) 螺旋桨除冰系统 (除冰装置附加的重量)

Propeller deicing (weight of deicing equipment extra)

(1) 本数据单所列的螺旋桨型号被批准使用Hartzell手册159()或其他Hartzell型号设计资料中所列的防冰设备

Propeller models listed in this data sheet are approved for use with propeller ice protection equipment listed in Hartzell Manual 159() or in other Hartzell type design data.

(2) 所有螺旋桨防冰设备必须作为飞机整体安装的一部分被批准, 不管哪个厂家 (见注10)。

All propeller ice protection equipment must be approved as part of the aircraft installation regardless of manufacturer. (See NOTE 10)

注 8/NOTE 8

叶根整流罩/Shank Fairings

不适用/Not applicable

注 9/NOTE 9

特殊限制/Special Limits

不适用/Not applicable

注 10/NOTE 10

螺旋桨安装必须作为航空器型号合格证的一部分批准，并表明对适用的航空器适航要求的符合性。
Propeller installation must be approved as part of the aircraft Type Certificate and demonstrate compliance with the applicable aircraft airworthiness requirements.

此数据单所列的螺旋桨型号包括基本的桨毂和桨叶型号。大多数螺旋桨型号包括附加字母以表明注 1 和 2 中所解释的小改和特定特征。参考航空器型号合格证数据单以确定适用的螺旋桨的具体型号。
Propeller models listed herein consist of basic hub and blade models. Most propeller models include additional characters to denote minor changes 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.

装配复合材料桨叶的螺旋桨在批准安装在任何型号航空器之前，必须评价其抗鸟击能力。Hartzell 螺旋桨公司必须基于航空器构型和运行条件完成相关测试及分析，以确定鸟击的潜在危害。

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.

注 11/NOTE 11

特殊限制/Special Limits

(a) 寿命值和强制检查/Life Limits and Mandatory Inspections

(1) Hartzell 手册 480 规定了适航限制（如有）。

Airworthiness limitations, if any, are specified in Hartzell Manual 480.

注 12/NOTE 12

特别提示/Special Notes

(a) 超速和超扭限制参见 Hartzell 手册第 202() 号。

Refer to Hartzell Manual No. 202() for overspeed and overtorque limits.

(b) 螺旋桨大修周期参见 Hartzell 服务信函 HC-SL-61-61()

Refer to Hartzell Service Letter HC-SL-61-61() for overhaul periods.

结束

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