

型号认可证数据单
TYPE VALIDATION CERTIFICATE DATA SHEET

编号/No: VTC0287P

版次/Revision: 0

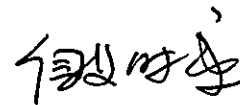
型号/Type:

Hartzell 系列螺旋桨

HC-H3Y

PHC-H3Y

批准人/Approved By:



日期/Date: 2014 年 3 月 3 日

本数据单是型号认可证（编号：VTC0287P）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: VTC0287P), 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	8	9	10	11	12	13	14	15
版次/Revision	0	0	0	0	0	0	0	0	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	编号: 02873P, 版次: 0, 颁发日期: 2014年03月03日 VTC No. 0287P, Reversion 0, Date of Issue: 2014-03-03	编号: P35EA; 版次: 15; 颁发日期: 2009年08月17日 No. P35EA, Revision 15, Date of Issue: 2009-08-17
历史 History		

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., 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:

1965年2月1日生效的美国民用航空规章14CFR35部及其35-1至35-2修正案。

/ 14 CFR Part 35 effective February 1, 1965 with amendments 35-1 and 35-2 thereto.

按照14CFR21部J分部DOA程序, 1970年12月31日美国颁发型号合格证P35EA号。

/ Type Certificate No. P35EA issued December 31, 1970 under Delegated Option Authorization procedures of 14 CFR Part 21 Subpart J.

型号合格证申请日期: 1970年12月15日

/ Date of application for Type Certificate: December 15, 1970

下列型号根据原审定基础批准/ The following models were included under the original certification basis:

HC-H3YF-(2, 3); HC-H3YN-2

下列型号按照1990年8月18日生效的美国14CFR35部及35-1至35-6修正案增加、更新或修订/ Models added, updated or revised in accordance with 14 CFR Part 35 effective August 18, 1990 with amendments 35-1 through 35-6 include the following:

HC-H3YF-(1, 2, 3); PHC-H3YF-(1, 2); HC-H3YN-2

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

型号: 恒速型; 液压 (见注3和4)

Type: Constant speed; hydraulic (see Notes 3 and 4).

发动机轴: 特殊法兰 (见注1)

Engine shaft: Special flange (see Note 1).

毂材料: 铝合金

Hub material: Aluminum Alloy

桨叶材料: 见以下

Blade material: See Below.

桨叶数: 三个

Number of blades: Three

桨毂型号:

Hub models:

HC-H3YF-1, -2, -3; PHC-H3YF-1, -2; HC-H3YN-2

HC-H3YF-1, -2, -3; PHC-H3YF-1, -2; HC-H3YN-2

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桨叶 (见注 2)	最大连续		起 飞		直径限制 (见注 2)	大约最大全重 (供参考) (见注 3 和 7)	桨叶结构 (见注 10)
	马力	转数	马力	转数			
<u>无配重螺旋桨 HC-H3YF-1, PHC-H3YF-1</u>							
7490-0 至 7490-10	350	2850	350	2850	76 英寸 至 66 英寸 (-0 至-10)	72.0 磅	铝合金
7691-0 至 7691-10	350	2850	350	2850	78 英寸 至 68 英寸 (-0 至-10)	77.0 磅	铝合金
7693-0 至 7693-10	350	2700	350	2700	78 英寸 至 68 英寸 (-0 至-10)	82.0 磅	铝合金
8068+2 至 8068-10	350	2700	350	2700	84 英寸 至 72 英寸 (+2 至-10)	81.0 磅	铝合金
8468-0 至 8468-14	400	2700	400	2700	86 英寸 至 72 英寸 (-0 至-14)	79.0 磅	铝合金
<u>带配重螺旋桨: PHC-H3YF-2</u>							
C7453-0 至 C7453-8	310	2800	310	2800	76 英寸 至 68 英寸 (-0 至-8)	85.0 磅	铝合金
<u>配重螺旋桨: HC-H3YF-2; PHC-H3YF-2</u>							
C7693-0 至 C7693-10	400	2700	400	2700	78 英寸 至 68 英寸 (-0 至-10)	84.0 磅	铝合金
<u>配重螺旋桨: HC-H3YF-2, -3; HC-H3YN-2</u>							
C7479-2 至 C7479-8	380	2900	380	2900	74 英寸 至 68 英寸 (-2 至-8)	88.0 磅*	铝合金
C7663-0 至 C7663-10	310	2800	310	2800	78 英寸 至 68 英寸 (-0 至-10)	81.0 磅*	铝合金
C7666-0 至 C7666-10	310	2700	310	2700	78 英寸 至 68 英寸 (-0 至-10)	85.0 磅*	铝合金
C8459-0 至 C8459-14	310	2700	310	2700	86 英寸 至 72 英寸 (-0 至-14)	83.0 磅*	铝合金

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桨叶	最大连续		起 飞		直径限制	大约最大全重 (供参考)	桨叶结构
(见注 2)	马力	转数	马力	转数	(见注 2)	(见注 3 和 7)	(见注 10)
C8465-0 至 C8465-14	310	2700	310	2700	86 英寸 至 72 英寸 (-0 至 -14)	86.0 磅*	铝合金
C8467-0 至 C8467-14	310	2575	310	2575	86 英寸 至 72 英寸 (-0 至 -14)	90.0 磅*	铝合金
C8468-0 至 C8468-14	310	2625	310	2625	86 英寸 至 72 英寸 (-0 至 -14)	87.0 磅*	铝合金
C8470-0 至 C8470-14	310	2700	310	2700	86 英寸 至 72 英寸 (-0 至 -14)	86.0 磅*	铝合金
C8475+2 至 C8475-0	435	2266	435	2266	88 英寸 至 86 英寸 (+2 至 -0)	90.0 磅*	铝合金
C8475-0 至 C8475-14	310 或 435	2575 或 2266	310 或 435	2575 或 2266	86 英寸 至 72 英寸 (-0 至 -14)	90.0 磅*	铝合金
C8477-0 至 C8477-14	310	2575	310	2575	86 英寸 至 72 英寸 (-0 至 -14)	93.0 磅*	铝合金
C9684-12 至 C9684-18	320	2200	320	2200	84 英寸 至 78 英寸 (-12 至 -18)	93.0 磅*	铝合金

* 重量仅适用于-2型号螺旋桨。-3型号重量增加7磅。

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Blades (See Note 2)	Maximum		Takeoff		Diameter	Approx. Max. Wt. Complete	Blade Construction
	Continuous				Limits	(For Reference Only)	
	HP	RPM	HP	RPM	(See Note 2)	(See Notes 3 and 7)	
<u>Non-Counterweighted Propellers HC-H3YF-1, PHC-H3YF-1</u>							
7490-0 to 7490-10	350	2850	350	2850	76" to 66" (-0 to -10)	72.0 lb.	Aluminum Alloy
7691-0 to 7691-10	350	2850	350	2850	78" to 68" (-0 to -10)	77.0 lb.	Aluminum Alloy
7693-0 to 7693-10	350	2700	350	2700	78" to 68" (-0 to -10)	82.0 lb.	Aluminum Alloy
8068+2 to 8068-10	350	2700	350	2700	84" to 72" (+2 to -10)	81.0 lb.	Aluminum Alloy
8468-0 to 8468-14	400	2700	400	2700	86" to 72" (-0 to -14)	79.0 lb.	Aluminum Alloy
<u>Counterweighted Propellers: PHC-H3YF-2</u>							
C7453-0 to C7453-8	310	2800	310	2800	76" to 68" (-0 to -8)	85.0 lb.	Aluminum Alloy
<u>Counterweighted Propellers: HC-H3YF-2; PHC-H3YF-2</u>							
C7693-0 to C7693-10	400	2700	400	2700	78" to 68" (-0 to -10)	84.0 lb.	Aluminum Alloy
<u>Counterweighted Propellers: HC-H3YF-2, -3; HC-H3YN-2</u>							
C7479-2 to C7479-8	380	2900	380	2900	74" to 68" (-2 to -8)	88.0 lb.*	Aluminum Alloy
C7663-0 to C7663-10	310	2800	310	2800	78" to 68" (-0 to -10)	81.0 lb.*	Aluminum Alloy
C7666-0 to C7666-10	310	2700	310	2700	78" to 68" (-0 to -10)	85.0 lb.*	Aluminum Alloy
C8459-0 to C8459-14	310	2700	310	2700	86" to 72" (-0 to -14)	83.0 lb.*	Aluminum Alloy

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Blades (See Note 2)	Maximum Continuous		Takeoff		Diameter Limits Construction	Approx. Max. Wt. Complete (For Reference Only) (See Notes 3 and 7)	Blade Construction
	HP	RPM	HP	RPM			
C8465-0 to C8465-14	310	2700	310	2700	86" to 72" (-0 to -14)	86.0 lb.*	Aluminum Alloy
C8467-0 to C8467-14	310	2575	310	2575	86" to 72" (-0 to -14)	90.0 lb.*	Aluminum Alloy
C8468-0 to C8468-14	310	2625	310	2625	86" to 72" (-0 to -14)	87.0 lb.*	Aluminum Alloy
C8470-0 to C8470-14	310	2700	310	2700	86" to 72" (-0 to -14)	86.0 lb.*	Aluminum Alloy
C8475+2 to C8475-0	435	2266	435	2266	88" to 86" (+2 to -0)	90.0 lb.*	Aluminum Alloy
C8475-0 to C8475-14	310	2575	310	2575	86" to 72" (-0 to -14)	90.0 lb.*	Aluminum Alloy
	or 435	or 2266	or 435	or 2266			
C8477-0 to C8477-14	310	2575	310	2575	86" to 72" (-0 to -14)	93.0 lb.*	Aluminum Alloy
C9684-12 to C9684-18	320	2200	320	2200	84" to 78" (-12 to -18)	93.0 lb.*	Aluminum Alloy

* Weights apply to -2 propellers only. Add 7 lbs. for -3 models.

注/NOTE:

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

() HC - H 3 Y F - 1 RF

F 代表修改的桨距变动系统

K 出现在-2 型号中时代表特定的法兰安装钉

L 代表螺旋桨左旋

R 代表 21.6 平方英寸的活塞面积

U 出现在-2 型号中时代表顺桨辅助弹簧

任何其它字母是指不影响合格性的微小改变

代表特定设计特性:

-1: 没有顺桨, 没有配重, 调速器油压增加桨距。

-2: 带有顺桨, 有配重, 调速器油压降低桨距。

-3: 没有顺桨, 可反桨, 带有配重, 调速器油压降低桨距。

F: 在安装边 4 英寸螺栓圆周上有 6 个 1/2 英寸螺栓和 2 个 1/2 英寸的定位销

N: 安装边的 4.24 英寸螺栓圆周上有 8 个 9/16 英寸螺栓和 2 个 0.5 英寸的定位销

桨叶柄尺寸

桨叶数

H 是指带有一个 4.25 英寸的一体轴外伸部。

哈赛尔公司产品

表示从法兰安装面角度, 定位销和穿过桨叶底座中心线的相对位置:

	定位销	T/C (分度线)
没有字母:	90 和 270 度	30 度顺时针
P:	0 和 180 度	120 度顺时针

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P	HC - H	3	Y	F	-1	RF										
							F when used denotes modified pitch change system									
							K when used with -2 models indicates specific flange mounting studs									
							L when used denotes left hand rotation									
							R when used denotes 21.6 sq. in. piston area									
							U denotes feather assist spring for -2 models									
							Any other character denotes a minor change not affecting eligibility									
							Denotes specific design features									
							-1: non-feathering, no counterweights, governor oil pressure increases pitch									
							-2: feathering with counterweights, governor oil pressure decreases pitch									
							-3: non-feathering and reversing with counterweights, governor oil pressure decreases pitch									
							F denotes flange with six 1/2" bolts and two 1/2" dowels on a 4" bolt circle									
							N denotes flange with eight 9/16" bolts and two 1/2" dowels on a 4.24" bolt circle									
							Hartzell blade shank size									
							Number of blades									
							'H' denotes a 4.25 inch integral shaft extension									
							<u>Hartzell Controllable</u>									
							Indicates dowel location with respect to centerline through blade sockets when viewing hub from flange mounting face									
							<table><tr><td></td><td><u>Dowel Pin</u></td><td><u>T/C</u></td></tr><tr><td>Blank</td><td>90 & 270 deg.</td><td>30 deg. Clockwise</td></tr><tr><td>P:</td><td>0 & 180 deg.</td><td>120 deg. Clockwise</td></tr></table>		<u>Dowel Pin</u>	<u>T/C</u>	Blank	90 & 270 deg.	30 deg. Clockwise	P:	0 & 180 deg.	120 deg. Clockwise
	<u>Dowel Pin</u>	<u>T/C</u>														
Blank	90 & 270 deg.	30 deg. Clockwise														
P:	0 & 180 deg.	120 deg. Clockwise														

2. 桨叶的型号标识（见注5和6） / Blade Model Designation (See Notes 5 and 6)

FL C 76 66 D - 3R

数字代表从基本直径上去掉（“-”）或加上（“+”）的英寸数值

Q 代表 1 英寸 x90 度出厂前事前弯好的桨叶梢。直径需要减少。

R 代表特别加工的直径减少的圆形桨叶梢。

任何其它字母代表桨叶梢形状。

D 或 F 代表对原始设计做的尺寸更改

B 或 K 代表除冰靴

R 代表在桨叶基本直径下的圆型桨叶梢

S 代表在桨叶基本直径下的方型桨叶梢*

任何其它字母代表不影响合格性的微小更改

基本桨叶型号

两叶桨螺旋桨的基本直径。若是三叶桨螺旋桨，直径增加 2 英寸

（注：2 英寸的调整不适用于 C9684 桨叶设计）

指带配重的桨叶

代表桨叶结构：右旋转牵引式（除非另有说明）

F 代表一个大的桨距变更把手

J 代表左旋转牵引式

L 或 H 分别代表左旋装推进式或右旋转推进式

*桨叶梢可能是方形或圆形，但在型号表示上可能不会用“R”或“S”标注。字母“S”是用来区分在同一直径下两种或更多种桨叶梢形状。某些桨叶则用“S”代表桨叶外表面经过喷丸处理。

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FL C 76 66 D - 3R

	Number of inches cut off from (or added to if +) basic diameter
	Q when used denotes special 1" x 90 deg. factory-bent tip for cutoff diameter
	R when used denotes specifically rounded tip for cutoff diameter.
	Any other character in this location denotes tip shape
	D or F denotes a dimensional modification from the original design
	B or K denotes deicing boots
	R when used denotes a rounded tip for the basic diameter
	S when used denotes a square tip for the basic diameter *
	Any other character denotes a minor modification not affecting eligibility
	Basic blade model
	Basic diameter for a two blade propeller. Add two inches for three blade propellers. (Note: two inch correction does not apply to C9684 blade design)
	Denotes counterweighted blades
	Denotes blade configuration: right-hand tractor unless otherwise noted
	F denotes a large pitch change knob
	J denotes left-hand tractor
	L or H denotes left-hand pusher or right-hand pusher respectively

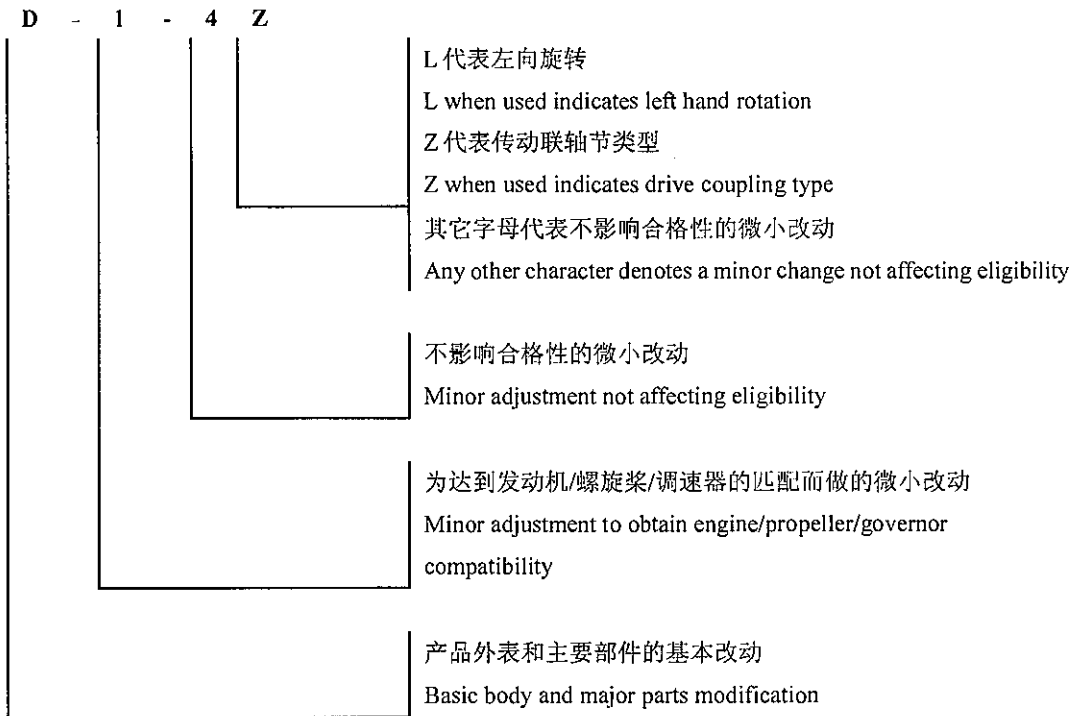
* Blades may incorporate either round or square tips, yet may not be marked with an "R" or "S" in their model designation. This character is used to distinguish between two or more tip shapes available at the same diameter. Certain blades use "S" to denote shot peening of the exterior surface.

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3. 桨距控制 (见注4、6和10) / Pitch Control (See Notes 4, 6 and 10)

- (a) 根据图纸C-4770和C-4772与哈赛尔调速器一同批准。重量: 4.5磅
/ Approved with Hartzell governors per drawings C-4770 and C-4772. Wt.: 4.5 lb.

调速器型号说明 / Governor Model Designation



- (b) -1型号不带配重桨叶, 且用调速器滑油增加桨距。-2和-3的型号带有配重桨叶, 并使用调速器滑油减小桨距。
/ The -1 propeller models use oil to increase pitch and do not have counterweighted blades. The -2 and -7 models have counterweighted blades and use oil to decrease pitch.
- (c) 最大调速器输出压力: 350 psi (针对所有螺旋桨型号)
/ Maximum governor output pressure: 350 psi for all propeller models
- (d) 无论何制造商, 所有调速器必须作为航空器的一部分获得批准。
/ All governors must be approved as part of the aircraft installation regardless of manufacturer.

4. 顺桨 / Feathering: -1和-3型号没有顺桨特性 / The -1 and -3 models do not feather.
-2型号带有顺桨和非顺桨特性 / The -2 models incorporate feathering and unfeathering features.
- 反桨 / Reversing: -3型号带有由相应反桨控制器控制的反桨特性。 / The -3 models are eligible for installation as reversing propellers with appropriate reversing controls..

5. 左转向型号 (见注1和2) / Left-Hand Models (See Note 1 and 2)

左转向和右转向螺旋桨型号在同一级别和直径条件下批准。
/ 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和3) / Interchangeability (See Note 2 and 3)

- (a) 调速器 / Governor
型号后缀带有“Z”的哈赛尔调速器与相对应的型号后缀不带有“Z”的调速器可以互换。例如: F-6-24Z可以替换F-6-24, 反之亦然。

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/ Hartzell governors with a "Z" suffix in their model designation may be used interchangeably with corresponding governors without the "Z". For example, the F-6-24Z is a replacement for the F-6-24 and the F-6-24 is a replacement for the F-6-24Z.

(b) 桨叶 /Blades

经过喷丸处理的桨叶可单个或整套替换非喷丸处理的桨叶。

/ Shot-peened blades may replace non shot-peened blades either individually or as a set.

(c) 防冰系统 /Ice Protection Systems

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

当列在哈赛尔批准的型号设计数据上时, 与Hartzell和其它厂家生产的整流罩一同批准。

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

(b) 螺旋桨防冰系统 (防冰装置附加的重量) / Propeller anti-icing (weight of anti-icing system extra)

(1) 当按照HARTZELL的H-S-2要求或133 () 手册规定安装时, 与在HARTZELL型号设计数据中列明的流体输送靴一同批准。

/ Approved with fluid feed boots listed in Hartzell type design data when installed in accordance with Hartzell specification H-S-2 or Manual 133().

(2) 与在HARTZELL型号设计数据中列明的并安装在相应的螺旋桨型号上的流体输送装置一同批准。

/ Approved with fluid feed equipment listed in Hartzell type design data on propeller models for which equipment is available.

(c) 螺旋桨除冰系统 (除冰装置附加的重量) \ Propeller deicing (weight of deicing equipment extra)

按照1961年10月23日的GOODYEAR AP-147报告要求安装时, 与GOODYEAR ICE GUARDS (螺旋桨电除冰器) 一同批准。

/ Approved with Goodyear Ice Guards (electrical propeller deicer) when installed in accordance with instructions outlined in Goodyear Report no. AP-147 dated October 23, 1961.

当按照GOODRICH 的ATA 30-60-07报告要求安装, 并且安装包号在HARTZELL的型号设计数据中列明时, 与GOODRICH的电除冰装置包号5E-XXXX-X, 7E-XXXX-X, 77-XXX, 67-XXX或65-XXX一并批准。

/ Approved with Goodrich electrical deicing kit 5E-XXXX-X, 7E-XXXX-X, 77-XXX, 67-XXX, or 65-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.

与在HARTZELL型号设计数据中列明的冰保护装置一同批准

/ Approved with ice protection equipment when listed on Hartzell type design data.

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

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CIVIL AVIATION ADMINISTRATION OF CHINA

9. 特别限制 /Special Limits:

被批准使用在通常类型单引擎牵引式飞机上的螺旋桨-发动机匹配表

/ Table of Propeller - Engine Combinations

Approved Vibrationwise for Use on Normal Category Single Engine Tractor Aircraft

从震动视点确定的最大与最小螺旋桨直径尺寸见下表。不允许比最小直径值小的情况发生，因为最小直径数值已经考虑了由于修理而造成的可接受尺寸减少的情况。

/ 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.

下列发动机型号来自发动机型号许可证（除非另有说明）。任何发动机或飞机结构的更改，如果致使在飞机运行的任何阶段下列发动机的动力发生改变，则这种更改有可能会增加对螺旋桨的压力，且不在此清单批准范围内。此类更改包括（但不限于）增加涡轮增压器或涡轮稳压器，增加升压压力，增加压缩比，增加转速，改变点火器正时、电子点火器、FADEC数字发动机控制器，或者调节进气或排气。同时，对于机轴、配重安装的材料质量或硬度的更改也不在此表的批准范围内。

/ The engine models listed below are the configurations on the engine type certificate unless specifically stated otherwise.

Modifications to the engine or airframe that alter the power of the engine models listed below during any phase of operation have the potential to increase propeller stresses and are not approved by this list. Such modifications include, but are not limited to, the addition of a turbocharger or turbnormalizer, increased boost pressure, increased compression ratio, increased RPM, altered ignition timing, electronic ignition, full authority digital engine controls (FADEC), or tuned induction or exhaust. Also, any change to the mass or stiffness of the crankshaft/counterweight assembly is not approved by this list.

桨毂型号	桨叶型号	发动机型号	最大直径 (英寸)	最小直径 (英寸)	注意事项
Hub Model	Blade Model	Engine Model	Max. Dia. (inches)	Min. Dia. (inches)	Placards
PHC-H3YF	F7490	TCM TSIO-550-B	76	75.5	在低于 2500RPM 情况下，不要超过 30 英寸管道压力 / Do not exceed 30 in. manifold pressure below 2500 RPM
PHC-H3YF	F7490	TCM IO-550-G	76	75.5	无 / None
PHC-H3YF	F7691()	TCM IO-520-A, -B, -BA, BB, -C, -CB, -D, -E, -F, -J, -K, -L, -M, -MB	78	77	在低于 2200RPM 情况下，不要超过 20 英寸管道压力 / Do not exceed 20 in. manifold pressure below 2200 RPM
PHC-H3YF	F7691()	TCM IO-550-A, -B, -C, -D, -F, -G, -L	78	77	在低于 2200RPM 情况下，不要超过 20 英寸管道压力 / Do not exceed 20 in. manifold pressure below 2200 RPM
HC-H3YF PHC-H3YF	F7693()	TCM IO-550-A, -B, -C, -D, -E, -F, -G, -L, -N, -P, -R, TCM TSIO-550-B, -C, -E	78	75	无 / None

10. 螺旋桨必须作为飞机型号合格证的一部分获得批准，进而符合相关的飞机适航要求。

/ The propeller installation must be approved as part of the aircraft Type Certificate and demonstrate compliance with the applicable aircraft airworthiness standards.

此数据单所列的螺旋桨型号包括桨毂和桨叶的基本型号。大多数螺旋桨型号包括附加字母以表明注1和2中所解释的小改动和特定性能。参照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.

11. 报废时间 /Retirement Time

如果有适航限制，则参考Hartzell手册113()，115N或117()。

/ Airworthiness limitations, if any, are specified in Hartzell Manuals 113(), 115N or 117().

12. 特别提示 /Special Notes

(a) 有关超速和超扭限制，参见Hartzell手册第202 ()。

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

(b) 有关大修周期，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