MINISTÉRIO DA AERONÁUTICA DEPARTAMENTO DE PESQUISAS E DESENVOLVIMENTO CENTRO TÉCNICO AEROESPACIAL

<u>TYPE CERTIFICATE DATA SHEET Nº EH-8006-03</u>	EH-8006-03
Type Certificate Holder:	Sheet 01
HARTZELL PROPELLER INC. One Propeller Place	HARTZELL
Piqua, Ohio - OH 45356 USA	НС-ВЗТ
	June 1999

Propellers of models described herein conforming with this data sheet, which is part of Type Certificate No. 8006, meet the minimum standards for use in certificated aircraft in accordance with pertinent aircraft data sheets and applicable portions of the Brazilian Aeronautical Regulations provided they are installed, operated, and maintained as prescribed by the approved manufacturer's manuals and other instructions.

ТҮРЕ	Constant speed; hydraulic (See Notes 3 and 4)
ENGINE SHAFT	Special flange: See Note 1
HUB MATERIAL	Alloy Steel
BLADE MATERIAL	Alluminum Alloy
NUMBER OF BLADES	Three

HUB EL	IGIBLE	HC-B3TN-3,	HC-B3TN-5, H	C-B3TF-7	
_	Blade Eligible (See Note 2)	Max.Continuous Power	Takeoff power	Diameter Limits (See Note 2)	Approx. Max. Weight Compl. (See Notes 3 and 7)
		hp rpm	hp rpm	m in	kg lb
		Hub	Model HC-B3T	<u>N-3</u>	
	T10178 ()-0	750 2200	800 2200	2.58 101 3/8	
	to	or	or	to 2.04 80 3/8	57.61 127
	T10178 ()-21	840 2000	1000 2000	(-0 to -21)	
		Hub Mode	<u>I HC-B3TN-3, H</u>	<u>C-B3TN-5</u>	
•	T10282 ()+6			2.74 108	
	to	725 1591	776 1591	to 2.18 86	57.83 127.5
	T10282 ()-16			(+6 to -16)	
	T10282()+6	725 1591	776 1591	2.74 108	
	to	or	or	to 2.69 106	57.83 127.5
	T10282 ()+4	600 2000	600 2000	(+6 to +4)	
	T10282 ()+4	750 2200	750 2200	2.69 106	
	to	or	or	to 2.59 102	57.83 127.5
	T10282 ()+0	600 2000	600 2000	(+4 to -0)	
	T10282 ()+0	750 2200	800 2200	2.59 102	
	to	or	or	to 2.06 81	57.61 127
	T10282()-21	840 2000	1000 2000	(-0 to -21)	
	T10282 ()-21			2.06 81	
	to	750 2200	750 2200	to 1.83 72	57.61 127
	T10282 ()-30			(-21 to -30)	
		Hub	Model HC-B3T	<u>F-7</u>	
	T9212()-0			2.34 92	53.52 118
	to	450 2180	450 2180	to 2.08 82	
	T9212()-10			(-0 to -10)	
	T10173()+1			2.06 102 3/8	
	to	450 2180	450 2180	to 1.79 70 3/8	52.16 115
	T10173()-31			(+1 to -31)	
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CERTIFICATION BASIS	HC-B3TN-3 and HC-B3TN-5 - CAR Part 14 effective December 15, 1956 with amendments 14-1 thereto			
	HC-B3TF-7 - RBHA (Brazilian Requirements for Aeronautical Certification), which endorses the FAR Part 35 with amendments 35-1 and 35-2 thereto			
TYPE CERTIFICATION	HC-B3T HC-B3T HC-B3T	F-7	Application 07 Nov. 1979 06 Dec. 1995 16 Dec. 1995	Issued TC 08 Aug. 1980 08 Oct. 1998 08 Oct. 1998
PRODUCTION BASIS	Production Certif	icate no. 10		
IMPORT REQUIREMENTS	Each propeller	imported se	parately and/or sp	are parts must be

IMPORT REQUIREMENTS Each propeller imported separately and/or spare parts must be accompanied by an export airworthiness approval issued by the primary authority, attesting that the particular propeller and/or parts were submitted to the governmental quality control before delivery and are in conformity with the CTA approved type design.

NOTES

- **NOTE 1** <u>Hub model Designation</u> <u>HC</u> <u>B</u> <u>3</u> <u>T</u> <u>N</u> <u>-3</u> <u>A</u> <u>L</u>, where:
 - HC Hartzell Controllable
 - B Identifies basic design
 - 3 Number of blades
 - T Hartzell blade shank size
 - N N denotes special flange with 8-9/16" bolts and 2 dowels on a 4 3/4" B.C. F denotes special flange with 6-1/2" bolts and 2 dowels on a 4" B.C.
 - -3 Denotes specific design features (See Note 4).
 - AL Denotes minor change not affecting eligibility.
 L when used denotes left hand rotation.
 X when used denotes non-reversing (See Note 4(2)(b))
 Y when used denotes start locks.

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NOTE 2	<u>Blade Model Designation</u> - <u>L</u> <u>T</u> <u>101</u> <u>73</u> () + or - <u>2Q</u> , where:
	L L when used denotes left-hand rotation
	T Denotes needle bearing installation in blade shank
	101 Basic diameter in inches
	73 Basic blade model
	 H denotes hard alloy (See Note 6). B, E, or K denotes deicing boots. S denotes shot peened blade surfaces. N denotes shank modification A,C,D, or F denotes blade dimensional modification
	+ or - Number of inches cut off from basic diameter (or added to if preceded by "+")
	2Q Q when used denotes special 1"-90 deg. factory-bent tip for cut-off diameter. R when used denotes round blade tip shape
NOTE 3	Pitch Control
	Approved with the following governors: Woodward model X210XXX or X210X-XXX series (weight of governor extra)
NOTE 4	(1) <u>Feathering</u> The -2, -3, -5, and -7 models incorporate feathering and unfeathering features.
	 (2) <u>Reversing</u> (a) The -3, -5, and -7 models are approved for installation as reversing propellers reversing controls. (b) The -2 and -3()X models do not reverse. (c) For the -7 model, compliance with FAR 35.21 must be established during type certific ation of the aircraft.
NOTE 5	Left-Hand Models.
	The left-hand version of an approved model propeller is approved at the same rating and diameter as listed for the right-hand model. (See Notes 1 & 2)
NOTE 6	Interchangeable Blades. (See Note 2)
	(a) Blades with "N" after the basic model number may replace those without an "N" either individually or as a set.(b) Hard and soft alloy blades of the same model designation are interchangeable.

NOTE 7 <u>Accessories</u>.

(1) <u>Propeller Spinner</u>.

(a) Approved with Hartzell spinners (weight of spinners extra).

- (2) Propeller Deicing.
 - (a) Approved with Goodrich electrical deicing kit 77-XXX, 67-XXX, or 65-XXX when installed in accordance with Goodrich report no. 59-728(), Goodrich drawing no. 7E1284, or Beech installation drawing no. 50T-389045).
 - (b) Approved with Safeway 5735 deicing kit and 6848, 6860, and 6870 deicing boots when installed in accordance with manufacturer's instructions.
- **NOTE 8** <u>Shank fairings</u>.

Not applicable.

NOTE 9 Special Limits.

Life Limits and Mandatory Inspections. Airworthiness Limitations, if any, are specified in Hartzell Maintenance Manual 118().

NOTE 10 Special Notes.

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

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