

**MINISTÉRIO DA AERONÁUTICA
DEPARTAMENTO DE PESQUISAS E DESENVOLVIMENTO
CENTRO TÉCNICO AEROESPACIAL**

TYPE CERTIFICATE DATA SHEET Nº EH-8201-01

Type Certificate Holder:

HARTZELL PROPELLER INC.
One Propeller Place
Piqua, Ohio - OH 45356
USA

EH-8201-01

Sheet 01

HARTZELL

HC-B4T

December 98

Propellers of models described herein conforming with this data sheet, which is part of Type Certificate No. 8201, 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.

TYPE	Constant speed, hydraulic (See Notes 3 & 4)
ENGINE SHAFT	Special flange 4-1/4" bolt circle with eight 9/16" bolts
HUB MATERIAL	Alloy steel
BLADE MATERIAL	Aluminum alloy
NUMBER OF BLADES	Four

HUB ELIGIBLE

HC-B4TN-3, HC-B4TN-5 (See Notes 1 and 4)

Blade Eligible (See Note 2)	Max. Continuous Power		Take off power		Diameter Limits (See Note 2)		Approx. Max. Weight Compl (See Notes 3 and 7)	
	hp	rpm	hp	rpm	m	in	Kg	lb
<u>Hub Model HC-B4TN-3</u>								
T9212+0 to T9212-10	850	2000	850	2000	2.37 2.12 (+0 to -10)	**93.5 83.5	71.67	158
<u>Hub Model HC-B4TN-5</u>								
T10890N+0 to T10890N-6	950	1591	950	1591	2.78 2.63 (+0 to -6)	**109.5 103.5	84.37	186

CERTIFICATION BASIS

RBHA 35 (Brazilian Requirements for Aeronautical Certification), which endorses the FAR Part 35 effective February 1, 1965, with Amendments 35-1 and 35-2 thereto.

TYPE CERTIFICATION

	Application	Issued TC
HC-B4TN-3	08 December 1981	12 February 1982
HC-B4TN-5	27 April 1998	19 June 1998

PRODUCTION BASIS

Production Certificate No. 10.

IMPORT REQUIREMENTS

Each propeller imported separately and/or spare parts must be accompanied by an Airworthiness Certificate for Export and/or an Airworthiness Approval Tag, respectively, issued by FAA, 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 Hub model Designation - HC B 4 T N 3 A, where:

HC	Hartzell Controllable
-B	Identifies basic design
4	Number of blades
T	Hartzell blade shank size
N	N denotes Special Flange 4-1/4" bolt circle with eight 9/16" bolts
-3	Denotes specific design features (See Note 4)
A	Denotes minor change not affecting eligibility

NOTE 2 Blade Model Designation - L T 101 73 F HB 2 Q, where:

L	Denotes left hand blade
T	Denotes needle bearing installation in blade shank
101	Basic diameter in inches $\left\{ \begin{array}{l} \text{or actual diameter relative} \\ \text{to basic diameter add...} \end{array} \right\}$ *1.0" **1.5"
73	Basic model or template
F	C denotes blade angle modification D denotes blade angle twist F denotes modified airfoil section
HB	H denotes hard alloy (See Note 6) B, E, or K denotes deicing boots S denotes shot peening
-2	Number of inches cut off from, or added(+) to, basic diameter
Q	Q when used denotes special 1"-90° factory bent tip for cutoff diameter

NOTE 3 Pitch Control.

- (a) Approved with the following governors:
Hartzell Model F-(x)-(x) Wt. 5 lb.
Woodward Model x210xxx or x210x-xxx

NOTE 4 (a) Feathering. - The -3 and -5 models incorporate feathering and unfeathering features.
(b) Reversing. - The -3 and -5 models are approved for installation as reversing propellers with appropriate reversing controls.

NOTE 5 Left-hand Model -

The left-hand version of an approved model propeller is approved at the same rating and diameter as listed for right-hand model. (See Notes 1 and 2.)

NOTE 6 Interchangeable Blades.

(a) Blades. Hard and soft alloy blades of the same model designation are interchangeable.

NOTE 7 Accessories.

(a) Propeller Spinner.

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

(b) Propeller deicing..

(1) Approved with Goodrich 77-xxx or 65-xxx or 67-xxx deicing kit when installed in accordance with manufacturer's instructions (Goodrich Report 59-728)(). Goodrich Drawing No. 7E-1284; Beech Installation Drawing No. 50T-389045).

NOTE 8 Shank Fairings.

Not applicable

NOTE 9 Special Limits.

Life Limits. Airworthiness Limitations, if any, are specified in Hartzell Maintenance Manual 118() or Service Letter 61 ().

NOTE 10 Special notes.

Propeller installations must be approved as part of the aircraft type certificate upon compliance with the applicable aircraft airworthiness requirements.

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