COMANDO DA AERONÁUTICA
DEPARTAMENTO DE PESQUISAS E DESENVOLVIMENTO
CENTRO TÉCNICO AEROESPACIAL

TYPE CERTIFICATE DATA SHEET No. EH-8808-02

Type Certificate Holder:

HARTZELL PROPELLER INC.
One Propeller Place
Piqua - OH - 45356 -2634
USA

EH-8808-02
Sheet 01

HARTZELL
HC-B4M

December 2001

Propellers of models described herein conforming with this data sheet, which is part of Type Certificate No.8808, 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	See page 2.
NUMBER OF BLADES	Four.
HUBS ELIGIBLE	Hub Models HC-B4MN-5 and HC-B4MP-3 (See Notes 1 and 4).

Blade Eligible (See Note 2).	Max.Continuous Power		Take off power		Diameter Limits		Approx. Max. Weight Compl. (See Notes 3 and 7)		Blade Construction
	hp	rpm	hp	rpm	m	in	Kg	lb	
M10476	1200	1700	1200	1700	2,67 To 2,41 (-0 to -10)	105 95	87,09	192.0	Aluminum alloy
M10585+4 to M10585-0	900	1591	940	1591	2,79 TO 2,69 (+4 to 0)	110 106	77,11	170.0	Aramid Composite
M10877	1173	1700	1173	1700	2,78	109.5	77,56	171.0	Aramid Composite
M10877 S	1173	1700	1173	1700	2,78	109.5	78,47	173.0	Aramid Composite

CERTIFICATION BASIS RBHA 35 (Brazilian Requirements for Aeronautical Certification), which endorses the FAR Part 35 effective May 2, 1977, with Amendments 1 through 4.

TYPE CERTIFICATION

	Aplication	Issued TC
HC-B4MP-3	19 Nov.1987	29 July 1988
HC-B4MN-5	26 July 2001	05 December 2001

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 M N 5 A L , where:

HC Hartzell Controllable.

B Identifies basic design.

4 Number of blades.
5

M Hartzell blade shank size.

N N denotes Special Flange 4-1/4" bolt circle with eight 9/16" bolts and two dowel bushings while P denotes 4 dowel bushings on N flange details.

5 Denotes specific design features (See Note 4).

A Denotes minor change not affecting eligibility.

L Denotes left-hand rotation.

NOTE 2 Blade Model Designation - L M 105 85 A N K +4, where:

L	Denotes left hand blade.
M	Denotes needle bearing installation in blade shank.
105	Basic diameter in inches.
85	Basic model or template.
A	A denotes blade cuff modification.
N	N denotes nickel erosion shield S on aramid composite blade represents a stainless steel wire screen on blade surface.
K	B or K denotes deicing boots.
4	Number of inches cut off from or added (+) to basic diameter.

NOTE 4 Feathering. – The -3 and -5 models incorporate feathering and unfeathering features.

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 Interchangeability: Not Applicable.

NOTE 7 Accessories:

(a) Propeller Spinner: Approved with Hartzell spinners (weight of spinners extra).

(b) Propeller deicing: Approved with Goodrich 77-xxx or 65-xxx deicing kit when installed in accordance with manufacturer's instructions.

NOTE 8 Shank Fairings.

The basic design incorporated a shank fairing.

NOTE 9 Special Limits. (Not Applicable).

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.

JOSÉ LUIZ R. BELDERRAIN – Ten.-Cel.-Eng.
Chefe da Divisão de Homologação Aeronáutica.
(Chief, Divisão de Homologação Aeronáutica)

JOSÉ CARLOS ARGOLO – Cel.-Av.
Diretor Do Instituto De Fomento E Coordenação Industrial.
(Director, Instituto de Fomento e Coordenação Industrial)