

MINISTÉRIO DA AERONÁUTICA
DEPARTAMENTO DE PESQUISAS E DESENVOLVIMENTO
CENTRO TÉCNICO AEROESPACIAL

TYPE CERTIFICATE DATA SHEET N° EH-9112

Type Certificate Holder

HARTZELL PROPELLER INC.
1800 Covington Avenue
Piqua, Ohio 45356
USA

EH-9112
HARTZELL
Page 1
HC-B3M
NOVEMBER 1991

Propeller of model described herein conforming with this data sheet (which is part of Type Certificate n° 9112), meets the minimum standards for use in certificated aircraft in accordance with pertinent aircraft data sheets and applicable portions of the Brazilian Regulations for Aeronautical Certification - RBHA - provided it is installed, operated, and maintained as prescribed by the approved manufacturer's manuals and other approved instructions.

- **TYPE** Constant speed; hydraulic
(see NOTES 3 and 4)
 - **ENGINE SHAFT** Special flange 4-1/4" bolt circle with
eight 9/16" bolts.
 - **HUB MATERIAL** Alloy steel
 - **BLADE MATERIAL** Aramid composite
 - **NUMBER OF BLADES** Three
 - **HUB ELIGIBLE** HC-B3MN-3
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Blade Eligible (See NOTE 2)	Maximum Continuous Power kW/rpm (shp)	Takeoff Power kW/rpm (shp)	Diameter Limits m(pol)	Aprox. Max. Mass (For Reference only - See NOTES 3 and 7) kg (lb)
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M10083	503/2200 (675)	503/2200 (675)	2.54 (100)	60.8 (134)
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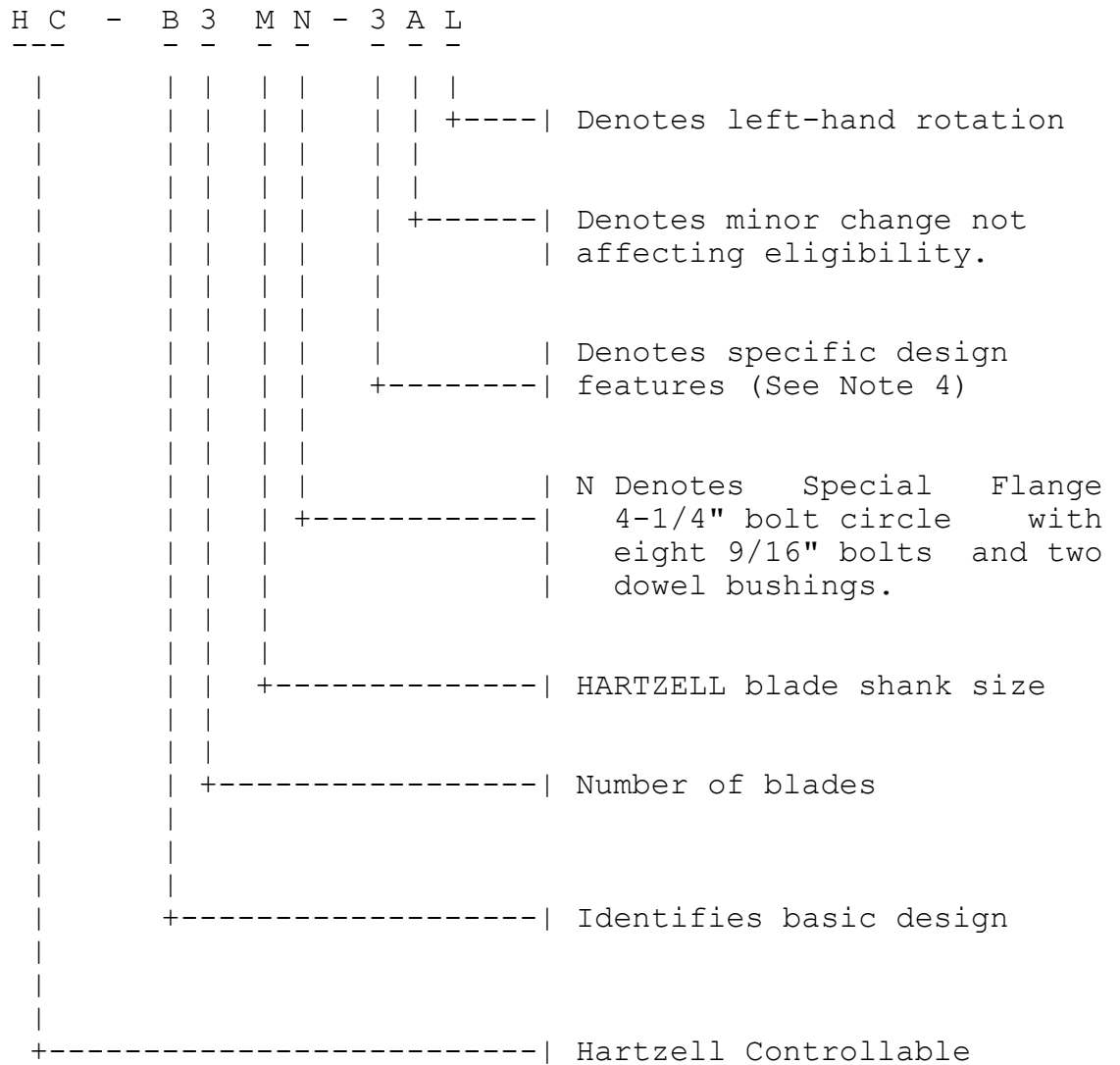
- **CERTIFICATION BASIS** Certified in accordance with RBHA 35 equivalent to FAR Part 35 effective October 14, 1980, with amendments 1 through 5.

- **TYPE CERTIFICATION APPLICATION DATE** August 28, 1986.

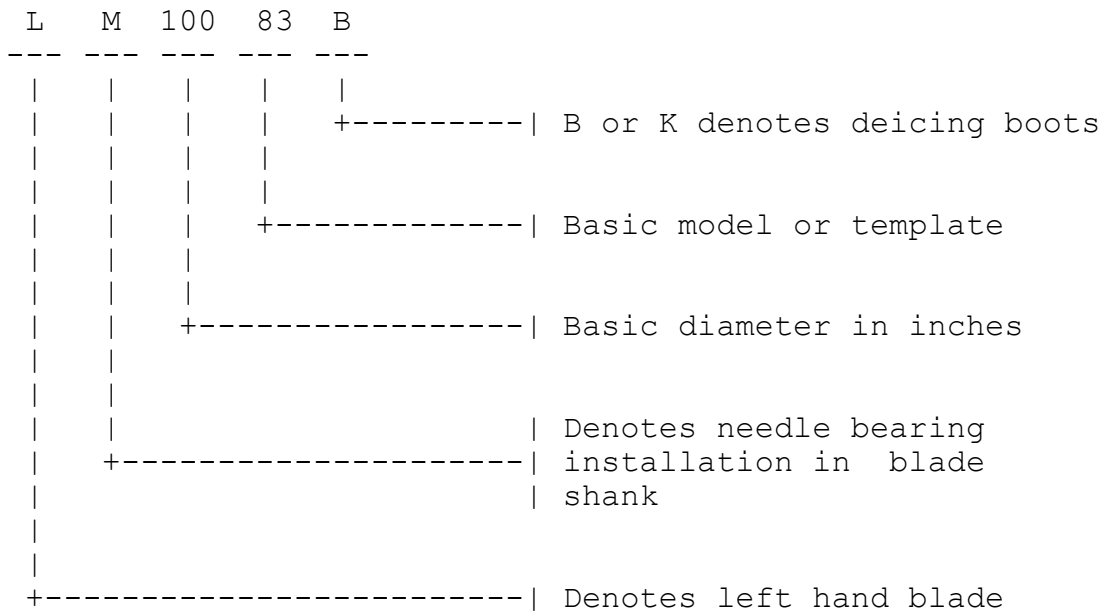
- **CERTIFICATION ISSUANCE DATE** Type Certificate for Import n^o 9112 issued on November 20, 1991.

- **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 the FAA - Federal Aviation Administration - 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.

- NOTE 1 : Hub Model Designation.



- **NOTE 2 :** Blade Model Designation



- **NOTE 3:** Pitch Control

Eligible with the following governors:
 Woodward Model x210xxx or x210x-xxx series
 Maximum output pressure 500 psi

- **NOTE 4 :** (1) Feathering

The -3 model incorporates feathering and unfeathering features.

(2) Reversing

The -3 model is eligible for installation as reversing propeller with appropriate reversing controls.

- **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 right hand model. (See NOTES 1 and 2).

- **NOTE 6 :** Interchangeable Blades

Not applicable

- **NOTE 7** : Accessories.

(a) Propeller Spinner

(1) With Hartzell spinners (weight of spinners extra).

(b) Propeller Deicing

(1) With Goodrich 77-xxx or 65-xxx deicing kit when installed in accordance with manufacturer's instructions.

- **NOTE 8** : Shank Fairings.

Not applicable.

- **NOTE 9** : Special Limits

Not applicable.

- **NOTE 10** : Special Notes

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

- **NOTE 11** : Retirement Time:

The retirement time of the Aramid composite blades, Part Number M10083, shall be 4500 hours or five years, whichever occurs first, when installed on the Cessna Model 208 airplane.

PAULO GASTÃO SILVA - Maj Eng
Chefe da Divisão de Homologação Aeronáutica

Brig do Ar - ADYR DA SILVA
Diretor Interino do CTA