

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

**TYPE CERTIFICATE DATA SHEET Nº EH-8803-02**

Type Certificate Holder:

**McCAULEY ACCESSORY DIVISION**  
3535 McCauley Drive  
Vandalia, Ohio - OH 45377  
**USA**

EH-8803-02

Sheet 01

McCAULEY

B2D34C

B2D37C

May 1999

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Propellers of models described herein conforming with this data sheet, which is part of Type Certificate No. 8803, 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.

<b>TYPE</b>	Constant speed, hydraulic (See Note 3)
<b>ENGINE SHAFT</b>	S.A.E. No. 2 flange modified (six 1/2" mounting bolts)
<b>HUB MATERIAL</b>	Aluminum Alloy
<b>BLADE MATERIAL</b>	Aluminum Alloy
<b>NUMBER OF BLADES</b>	Two

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**HUB ELIGIBLE**

B2D34C213, B2D34C214, B2D34C235 and B2D37C224

Blade Eligible (See Note 2)	Max. Continuous Power		Take off power		Diameter Limits (See Note 2)		Approx. Max. Weight Compl. (See reference only) (See Note 3)	
	hp	rpm	hp	rpm	m	in	kg	lb

Hub Model B2D34C213

90DHA-12 to 90DHA-18	200	2700	200	2700	1.98	78 to 1.83 72 (-12 to -18)	22.45	49.5
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Hub Model B2D34C235

90DK[X]-0 to 90DK[X]-18	285	2750	285	2750	2.29	90 to 1.83 72 (-0 to -18)	22.91	50.5
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Hub Model B2D34C214

90DHB-12 to 90DHB-18	200	2 700	200	2 700	1.98	78 to 1.83 72 (-12 to -18)	22.45	49.5
90DHB-8 to 90DHB-18	235	2 400	235	2 400	2.08	82 to 1.83 72 (-8 to -18)	22.91	50.5

Hub Model B2D37C224

90RA-2 to 90RA-12	235	2 400	235	2 400	2.24	88 to 1.98 78 (-2 to -12)	23.59	52
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**CERTIFICATION BASIS**

Hub Model B2D34C235/90DKB -RBHA 35 (Brazilian Requirements for Aeronautical Certification), which endorses the FAR Part 35 with Amendments 35-1 to 35-6 thereto.

Hub Model B2D37C224/90RA - RBHA 35 (Brazilian Requirements for Aeronautical Certification), which endorses the FAR Part 35 Amendment 35-1 to 35-5 thereto.

All other Models: RBHA 35 (Brazilian Requirements for Aeronautical Certification), which endorses the FAR Part 35 with Amendments 35-1 and 35-2 thereto.

**TYPE CERTIFICATION**

## Application

## Issued TC

Hub Model B2D34C214	15 January 1987	03 February 1988
Hub Model B2D34C235	26 January 1997	02 December 1998
Hub Model B2D37C224	18 October 1996	02 December 1998
Hub Model B2D34C213	18 April 1980	10 May 1999

**PRODUCTION BASIS**

Production Certificate No. 3

**IMPORT REQUIREMENTS**

Each propeller imported separately and/or spare parts must be accompanied by an export airworthiness approval 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 - B 2 D 34 C 53 -A, where:

- B Indicates angular location of small diameter indexing holes for mounting bolts, with respect to blade centerline, when viewing hub from flange mounting face.  
Blank - 0° and 180° clockwise;  
B - 150° and 330° clockwise.
- 2 Number of blades
- D SAE No. 2 flange modified (6-1/2 inch mounting bolts)
- 34 McCauley blade shank size
- C C denotes constant speed model
- 53 Any change affecting eligibility (number 100 or less; thread type retention, number 200 or more; threadless type retention arrangement)
- A Minor change not affecting interchangeability or eligibility

**NOTE 2** Blade Model Designation - S -74 E -0, where:

- S Indicates minor changes not affecting eligibility or interchangeability
- 74 Basic design diameter in inches
- E Blades form characteristics, i.e. activity factor, planform, pitch distribution, etc. One or more letters may be used.
- 0 Reduction in inches from basic diameter (As -4, diameter reduced 4 inches to 70 inches.)

**NOTE 3** Pitch Control.

Eligible with the following Governors:

Woodward Model x,210,xxx	Wt. 3.5 lb.
Hoof Model 1,000,007 Series	Wt. 3.5 lb.
McCauley Model C290D1/T[X]	Wt. 2.8 lb.
McCauley Model C290D2/T[X]	Wt. 2.8 lb.
McCauley Model C290D3/T[X]	Wt. 2.8 lb.
McCauley Model C290D4/T[X]	Wt. 2.8 lb.
McCauley Model C290D5/T[X]	Wt. 2.8 lb.
McCauley Model C290D[X]/T[X]	Wt. 2.8 lb.
McCauley Model DC290D1/T[X]	Wt. 2.8 lb.
McCauley Model DC[X][X][X]D1/T[X]	Wt. 2.8 lb.

**NOTE 4** Not applicable

**NOTE 5** Left-Hand Models.

The left-hand version of an approved model is eligible at the same rating and diameter limitations as listed for the right hand model.

**NOTE 6** Not applicable

**NOTE 7** Accessories.

(a) Spinners.

(1) B2D34C235 model with McCauley spinner assembly D-7267

**NOTE 8** Not applicable

**NOTE 9** 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.

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