

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

**TYPE CERTIFICATE DATA SHEET Nº EH-9805**

Type Certificate Holder:

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

EH-9805

Sheet 01

HARTZELL  
HC-I2Y

October 98

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Propellers of models described herein conforming with this data sheet, which is part of Type Certificate No. 9805, 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 Notes 3 and 4)
<b>ENGINE SHAFT</b>	Special Flange 4" B.C.
<b>HUB MATERIAL</b>	Aluminum alloy
<b>BLADE MATERIAL</b>	Aluminum alloy
<b>NUMBER OF BLADES</b>	Two

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**HUB ELIGIBLE**

HC-I2YR-1

Blade Eligible (See Notes 2 and 6)	Max. Continuous Power		Takeoff power		Diameter Limits		Approx. Max. Weight Compl. (See Notes 3 and 7)	
	hp	rpm	hp	rpm	m	in	Kg	lb
<u>Hub Model HC-I2YR-1</u>								
8074-0 to 8074-10	350	2500	350	2500	2,03	80"	26,31	58
					1,85	70"		
					(-0 to -10)			

**CERTIFICATION BASIS**

Brazilian Type Certificate Nr.9805 based on the RBHA (Brazilian Requirements for Aeronautical Certification), which endorses the FAA - FAR Part 35 effective April 1, 1967

**TYPE CERTIFICATION**

	Application	Issued TC
HC-I2Y	28/02/1995	23/09/1998

**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 – B HC -I 2 Y F -1 BF , where:

- B Indicates dowel location with respect to centerline through blade sockets viewing hub from flange mounting face  
Blank 90° and 270° clockwise  
B 30° and 210° clockwise
- HC Hartzell controllable
- I Identifies basic design
- 2 Number of blades
- Y Hartzell blade shank size
- F F denotes special flange with six 1/2" bolts on 4" bolts circle and two 1/2" drive dowels.  
L denotes SAE No. 2 flange with six 7/16" bolts on 4-3/4" bolt circle and four 5/8" drive bushings.  
K denotes SAE No. 2 flange with six 1/2" bolts on 4-3/4" bolt circle and four 3/4" drive bushings.  
R denotes SAE No. 2 flange with six 1/2" bolts on 4-3/4" bolt circle and five 3/4" drive bushings.
- 1 Denotes specific design features as:  
-1, non-feathering, no counterweights, governor oil pressure increases pitch  
-2, feathering  
-4, non-feathering, counterweights, governor oil pressure decreases pitch
- B A denotes minor change not affecting eligibility  
L denotes left hand rotation
- F When used denotes modified pitch change system
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**NOTE 2** Blade Model Designation - L C 80 74 D -0R, where,

L	Denotes type of blade No prefix denotes R.H. tractor F prefix when used denotes large pitch change knob. J prefix denotes L.H. tractor L prefix denotes L.H. pusher
C	Denotes counterweighted blades
80	Basic diameter in inches
74	Basic model or template
D	B denotes deicing boots D denotes dimensional modification from original design H denotes hard alloy (See NOTE 6) R when used denotes rounded tip for basic diameter S when used denotes square tip for basic diameter Any letter not otherwise identified denotes location of pitch change knob.
-0	Number of inches cutoff from basic diameter
R	Q when used denotes special 1"-90° factory bent tip for cutoff diameter R when used denotes specifically rounded tip for cutoff diameter.

**NOTE 3** Pitch Control. (See Note 9)

Approved with Hartzell governors per drawing list C-4770 or C-4772

Governor model designation sample: D - 1 - 4

D -1 -4 Hartzell governor designation

D	Basic body and major parts modification
-1	Minor adjustment to obtain Engine-Propeller-Governor compatibility
-4	Minor adjustment not affecting eligibility

Approved with the following governors: Woodward Model x210xxx or x210x-xxx (Not approved with air feathering type propellers Edo-Aire Model 34-828-xxx Wt. 3.0 lb. without counterweights.)

- NOTE 4** (a) Feathering. The -1 and -4 models do not feather. The -2 models incorporate feathering and unfeathering features.
- (b) Reversing. Not applicable.
- NOTE 5** Left-Hand Models. The left-hand version of a model propeller is approved at the same rating and diameter as listed for the right-hand model. See NOTES 1 and 2.
- NOTE 6** Interchangeability.
- (a) Blades  
(1) Hard and soft alloy blades of the same model designation are interchangeable but only on seaplanes and amphibious aircraft.
- (b) Propellers  
(1) "F" after hub model design number and preceding blade design number denotes large pitch change knob. These propellers are interchangeable with standard approved models.
- NOTE 7** Accessories. (See Note 9)
- (a) Propeller Anti-Icing  
(1) Fluid feed shoes or Icx boots installed in accordance with Hartzell Special Instructions No. 59A.  
(2) Hartzell fluid feed equipment on propeller models for which the equipment is available.
- (b) Propeller Deicing  
(1) Goodyear Ice Guards (electrical propeller deicer) when installed in accordance with instructions outlined in Goodyear Report No. AP-147 dated October 23, 1961.  
(2) Goodrich Deicing Kit 77-xxx, or 67-xxx, or 65-xxx when installed in accordance with Goodrich Report No. 59-728( ).
- (c) Propeller Spinner  
(1) Hartzell spinners (weight of spinner extra).
- NOTE 8** Shank Fairings. Not applicable.
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**NOTE 9** Special Notes. Aircraft installation must be approved as part of the aircraft type certificate and demonstrate compliance with the applicable aircraft airworthiness requirements.

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