

DEPARTMENT OF TRANSPORTATION  
FEDERAL AVIATION ADMINISTRATION

P-888  
Revision 7  
  
HC-13X  
  
March 1, 1977

TYPE CERTIFICATE DATA SHEET NO. P-888

Propellers of models described herein conforming with this data sheet (which is part of type certificate No. P-888) and other approved data on file with the Federal Aviation Administration meet the minimum standards for use in certificated aircraft data sheets and applicable portions of the Federal Aviation Regulation provided they are installed, operated, and maintained as prescribed by the approved manufacturer's manuals and other approved instructions.

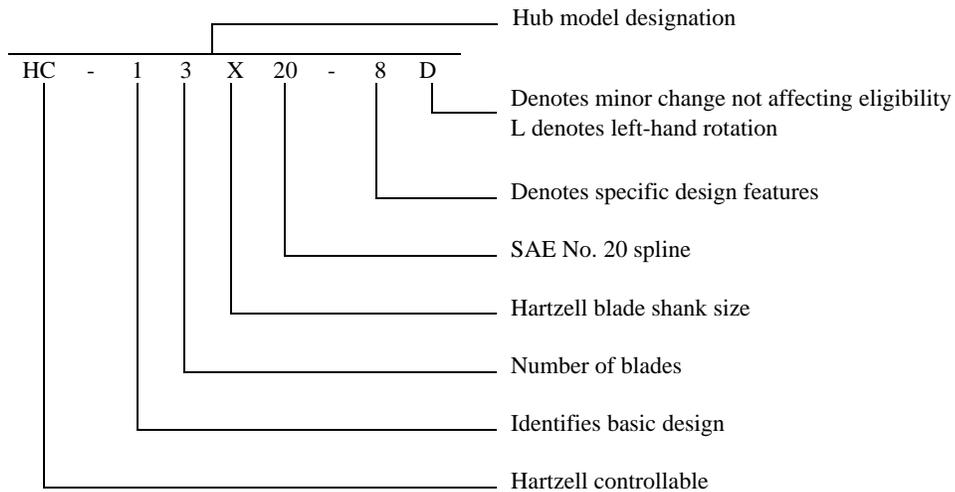
Type Certificate Holder:	Hartzell Propeller, Inc. Piqua OH 45356
Type	Constant speed; hydraulic (see NOTES 3 and 4)
Engine shaft	SAE #20 spline
Hub material	Alloy steel
Blade material	Aluminum alloy
No. of blades	Three
Hub models eligible	HC-13X20-5, -6, -8 (see NOTES 1 and 4)

Blades Eligible (see Note 2)	HP	RPM	HP	RPM	Diameter Limits	Approx. Max. Wt. Complete (For reference only) (See NOTE 3)
7636-D-0 to 7636D-8	280	2600	280	2600	76-5/8" - 68-5/8" (-0 to -8)	94 lb.
8433-0 to 8433-12	280	2600	280	2600	84-5/8" - 72-5/8" (-0 to -12)	97 lb.

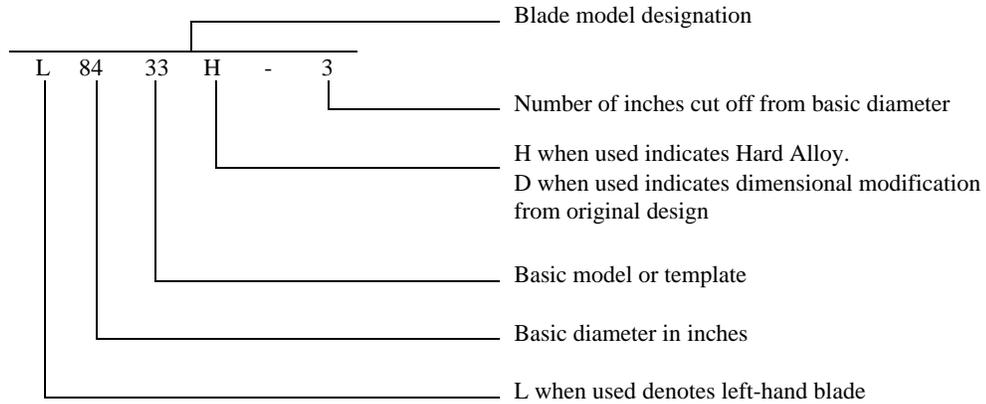
Certification basis	CAR 14 effective March 5, 1952, with Amendments 14-1 and 14-2 thereto Type Certificate No. 888 issued February 1, 1955.
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Production basis	Production Certificate No. 10
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NOTE 1. Hub Model Designation



NOTE 2. Blade Model Designation



Diameter limits shown are nominal diameters of the assembled propeller and do not include the +1/4 inch to -1/8 inch manufacturing tolerance permissible.

NOTE 3. Pitch Control. Eligible with Hartzell manual or constant speed control. Constant speed control includes the Hartzell governor Model A-1-1. Additional weight of governor is 4.5 lb. (NOTE: Some installations require a T-drive adapter for the governor. Additional weight of the Hartzell Model C-253-2 adapter is 2.7 lb.).

NOTE 4. (a) Feathering. Not applicable.  
 (b) Reversing. The -5 model incorporates a reversing feature.

NOTE 5. Left-Hand Models. The left-hand version of an approved model propeller is eligible at the same rating and diameter as listed for the right-hand model. (See NOTES 1 and 2.)

NOTE 6. Interchangeability.  
 (a) Blades. Only blades listed in the same group of the following listed groups are sufficiently similar aerodynamically and vibrationwise to permit interchangeability in the same diameter without a flight test.  
 Group (a) 8433, 8433H\*, 8433A  
 \*Hard alloy blades interchangeable only on seaplanes and amphibious aircraft.  
 (b) Propellers. Only propellers listed in this data sheet may be replaced by corresponding propellers listed in Type Certificate Data Sheet No. P1EA provided the propeller model designations are the same except that the identifying basic digit "1" (see NOTE 1) is replaced by the letter "D".

NOTES 7 and 8. Not applicable.

NOTE 9. Table of Propeller-Engine Combinations  
Approved Vibrationwise for Use on Normal Category Single-Engine Tractor Aircraft

The maximum and minimum propeller diameters that can be used from a vibration standpoint are shown below. No reduction below the minimum diameter listed is permissible since this figure includes the diameter reduction allowable for repair purposes.

Blade Model	Engine Model	Max. Dia. (inches)	Min. Dia. (inches)	Placards
8433	Lycoming GO-435	84	84	None
8433	Franklin 6A8-215-B8F	84	80	None
	Franklin 6A8-215-B9F	84	80	None

NOTE 10. The word "eligible" as used herein does not signify approval. For approval compliance with the applicable aircraft airworthiness requirements is necessary.

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