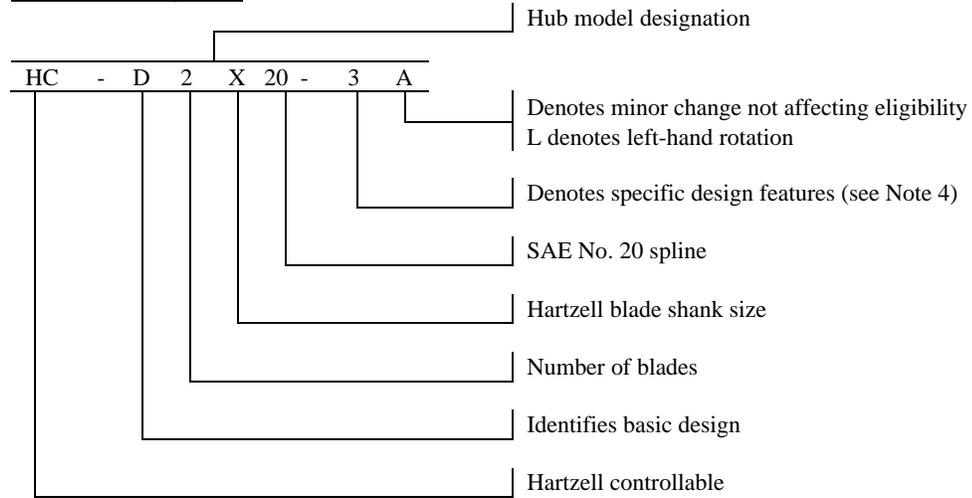


NOTE 1.

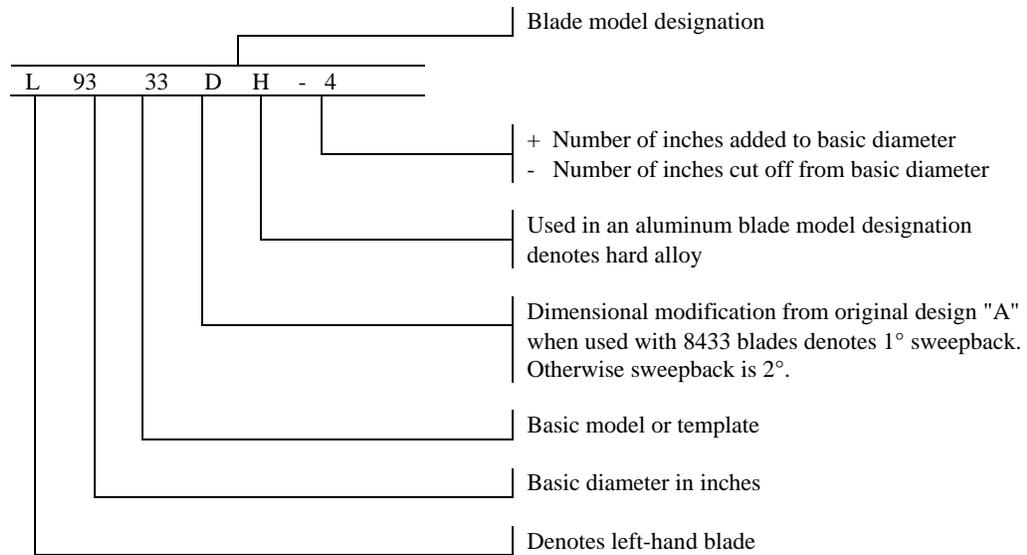
Hub Model Designation



A -10 following the hub serial number identifies that oversize tubes are pressed into the spider in order to accommodate worn blade bushings.

NOTE 2.

Blade Model Designation



NOTE 3. Pitch Control. Eligible with Hartzell manual or constant speed control. Constant speed control includes the Hartzell governor Model A-1. Additional weight of governor is 3.75 lb. (Note: Some installations require a T-drive adapter for the governor. Additional weight of the Hartzell Model C-137 adapter is 2.5 lbs, and of the Hartzell Model C-253 adapter is 2.7 lbs.)

NOTE 4. (a) Feathering. Not applicable.
 (b) Reversing. -3 model incorporates hydraulically controlled reversing.

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 list are sufficiently similar aerodynamically and vibrationwise to permit interchangeability in the same diameter without a flight test.

Group (a) 8433, 8433Z.

Hard and soft alloy aluminum blades of the same model designation are interchangeable but only on seaplanes and amphibious aircraft.

Model 8433A blades are interchangeable with 8433 blades provided both blades in the same propeller are identical.

- (b) Propellers. Only propellers listed in this data sheet are eligible as replacements for corresponding propellers listed in Type Certificate Data Sheet No. P-845 in accordance with Note 6 of P-845. Propellers listed in P-845 are not eligible to replace propellers listed in this data sheet.

NOTES 7

Accessories.

- (a) Propeller deicing

(1) Eligible with Goodrich "Icex" shoes, when applied in accordance with Goodrich instructions. Hartzell recommends that the maximum length be limited to .7 x blades radius, measured from center of hub.

- (b) Propellers spinners

(1) Eligible with Hartzell Model D-164 bulkhead assembly, D-163 spinner dome. Additional weight 3 lb. The -3 model has no spinner eligible.

(2) Eligible with Goodyear ice guards (electrical propeller deicer) when installed in accordance with instructions outlined in Goodyear Report No. AP-147 dated October 23, 1961.

NOTE 8.

Not applicable.

NOTE 9.

Table of Propeller-Engine CombinationsApproved 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.

Hub Model	Blade Model	Engine Model	Max. Dia. (Inches)	Min. Dia. (Inches)	Placards
HC-D2X20	8433	Continental E-185	84	76	Dampened engine only, not to exceed 2600 rpm at takeoff. None
		Franklin 6A8-215-8BF and -9BF	84	84	
		Continental E-225	84	82	Not to exceed 2600 rpm at takeoff. None None None
		Lycoming O-435-A and -C	78	75	
		Lycoming O-435-A2	78	76	
		Lycoming O-435-C1	78	76	
HC-D2X20	8833	Ranger 6-440-C5	88	88	Avoid continuous operation between 1250 and 1600 and between 1950 and 2200 rpm Avoid continuous operation on ground between 1400 and 1700 and also between 1900 and 2100 rpm. Avoid continuous operation on ground and flight between 2450 and 2550 rpm
		Continental E-225	88	86	

Hub Model	Blade Model	Engine Model	Max. Dia. (Inches)	Min. Dia. (Inches)	Placards
HC-D2X20	9333C	Lycoming GO-435-C2	93	91	Avoid continuous ground operation between 1675 and 2150 rpm
		Lycoming GO-435-C2	90	88	None
		Lycoming O-435-2-M1	93	93	Avoid continuous ground operation between 1675 and 2150 engine rpm.
HC-D2X20	10133D	Lycoming GO-435-C2	101	101	Avoid continuous operation between 2600 and 2940 rpm
		Lycoming GO-435-C2	98	95	None

NOTE 10. The word "eligible" as used herein does not signify approval as part of this type certificate. "Eligible" accessories must be approved as part of the aircraft type certificate upon compliance with the applicable aircraft airworthiness requirements.

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