

Blades Eligible (see Note 2)	Maximum Continuous		Takeoff		Diameter Limits	*Approx. Max. Wt. Complete with Grease, Mounting Bolts, etc. (see notes 3 and 7)	Blade Construction
	HP	RPM	HP	RPM			
Hub Models HC-82XF-1, -2, -3, -6; HC-82X20-1, -2, -3, -5; HC-82XK-1, -2, -3 (cont'd)							
8833-0 to 8833-10	240	2600	240	2600	88" - 78" (-0 to -10)	68 lbs.	Aluminum alloy
9333C-0 to 9333C-5	260	2330	280	2330	93" - 88" (-0 to -5)	72 lbs.	Aluminum alloy
10133D-0 to 10133D-6	260	2180	260	2180	101" - 95" (-0 to -6)	77 lbs.	Aluminum alloy
10133D-3 to 10133D-6	280	2180	280	2180	98" - 95" (-3 to -6)	77 lbs.	Aluminum alloy
Hub Models HC-82XG-1, -2, -6; HC-82XL-1, -2, -6							
7636C-0 to 7636C-8	180	2700	180	2700	76" - 68" (-0 to -8)	64 lbs.	Aluminum alloy
7636D-0 to 7636D-8	180	2700	180	2700	76" - 68" (-0 to -8)	64 lbs.	Aluminum alloy
8046-6 to 8046-14	150	2700	150	2700	74" - 66" (-6 to -14)	58 lbs.	Special fabric base plastic; stainless steel or brass tipping.
8427+2 to 8427-4					86" - 80" (+2 to -4)	64 lbs.	Special fabric base plastic; stainless steel or brass tipping.
8428+2 to 8428-9	180	2600	180	2600	86" - 75" (+2 to -9)	64 lbs.	Special fabric base plastic; stainless steel or brass tipping.
8428X-0 to 8428X-9	180	2600	180	2600	84" - 75" (-0 to -9)	64 lbs.	Special fabric base plastic; stainless steel or brass tipping.
8433-0 to 8433-6	180	2600	180	2600	84" - 78" (-0 to -6)	67 lbs.	Aluminum alloy
8433-8 to 8433-14	180	2700	180	2700	76" - 70" (-8 to -14)	67 lbs.	Aluminum alloy
8433-0 to 8433S-6	180	2600	180	2600	84" - 78" (-0 to -6)	67 lbs.	Aluminum alloy
8433S-8 to 8433S-14	180	2700	180	2700	76" - 70" (-8 to -14)	67 lbs.	Aluminum alloy
8833-0 to 8833-10	180	2600	180	2600	88" - 78" (-0 to -10)	68 lbs.	Aluminum alloy
9333C-0 to 9333C-5	180	2330	180	2330	93" - 88" (-0 to -5)	72 lbs.	Aluminum alloy
10133D-0 to 10133D-6	180	2180	180	2180	101" - 95" (-0 to -6)	77 lbs.	Aluminum alloy

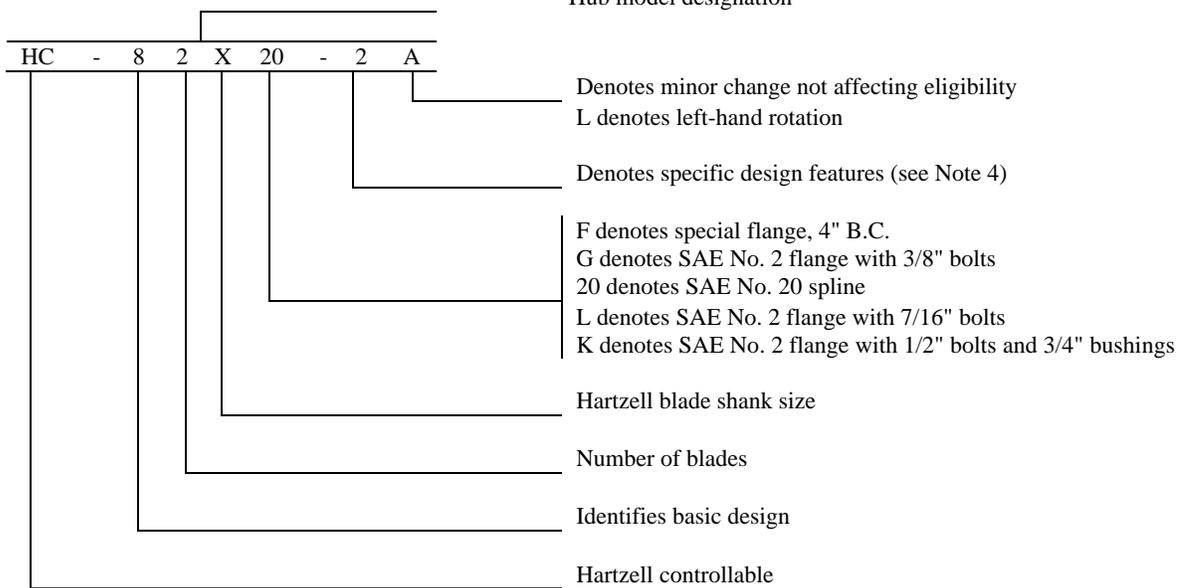
Blades Eligible (see Note 2)	Maximum Continuous		Takeoff		Diameter Limits	*Approx. Max. Wt. Complete with Grease, Mounting Bolts, etc. (see notes 3 and 7)	Blade Construction
	HP	RPM	HP	RPM			
Hub Model HC-82XS-2							
8046-8	150	2700	150	2700	72" - 66"	58 lbs.	Special fabric case plastic; stainless steel or brass tipping.

*Weights apply to HC-82XF, K, G, L -2 hub models. Subtract 4 lbs. for -1 hub, 2 lbs. for -3 hubs, and 9 lbs. for -6 hubs. For HC-82X20: Subtract 5 lbs. for -1 hubs, 1 lb. for -2 hubs. Add 2 lbs. for -3 hubs, and 4 lbs. for -5 hubs.

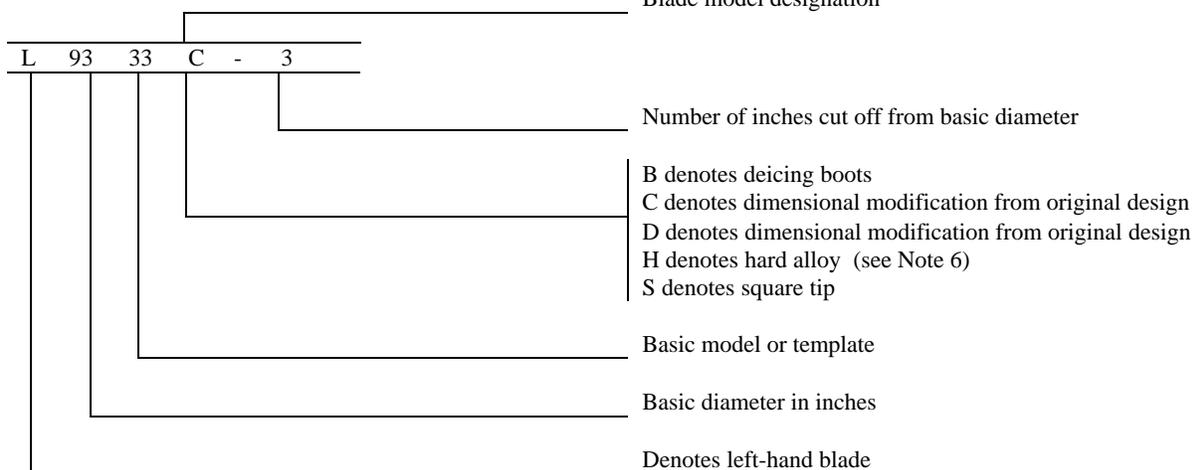
Certification basis CAR 14 effective March 5, 1952, as amended by 14-1 and 14-2
 Type Certificate No. 878 issued October 8, 1952.
 Date of application for Type Certificate April 14, 1952.

Production basis Production Certificate No. 10

NOTE 1. Hub Model Designation



NOTE 2. Blade model designation



NOTE 3.	<u>Pitch Control.</u> Eligible with the following governors:	
	Hartzell Models B-(x)-(x); D-(x)-(x); F-(x)-(x)	Weight 4.5 lbs.
	Hoof Model 1-000-007 series	Weight 3.5 lbs.
	Woodward Model x210xxx or x210x-xxx	
	Hamilton Standard Models 1A4, 1M12, 1P12 and 1Q12	Weight 4.5 lbs.

The Hartzell B-0 is the only model which is interchangeable with the Hamilton Standard 1M12 or 1Q12. Other Hartzell models are not interchangeable with any Hamilton Standard model without modification of the latter. On all models except the -6, oil pressure is used to change the pitch of the blades from high to low pitch. The action is reversed in the -6 model, which has no blade counterweights.

- NOTE 4. (a) Feathering. The -2 models incorporate feathering and unfeathering features.
The -1, -3, and -6 models do not feather.
- (b) Reversing. The -5 model incorporates reversing but not feathering.

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.
- (1) Hard alloy blades eligible only on seaplanes and amphibious aircraft.
 - (2) 8433A blades are interchangeable with 8433 blades providing all blades in the same propeller are identical.
- (b) Propellers. Only propellers listed on this data sheet may be replaced by corresponding propellers listed in TC Data Sheet P23GL and P24GL and Type Certificate Data Sheet P-908, provided model designations are the same except that the identifying base design digit "8" (see Note 1) may be replaced by the letter "A" and/or "X" replaced by "V".

- NOTE 7. Accessories.
- (a) Propeller Anti-icing
- (1) Eligible with fluid feed shoes or Icx boots installed in accordance with Hartzell Special Instructions No. 59.
 - (2) Eligible with Hartzell fluid feed equipment on propeller models for which the equipment is available.
 - (3) Eligible with Cessna 0850305 slinger ring installed only on Cessna spinner (see item (b)(2) below).
- (b) Propeller Deicing
- (1) Eligible with Goodrich Electrical Propeller Deicer when installed according to instruction given in Goodrich Report 59-728.
 - (2) Eligible with Goodyear Electrical Propeller Deicer when installed according to instruction given in Goodyear Report No. 147 dated October 23, 1961.
- (c) Propeller Spinner
- (1) Eligible with Hartzell spinners (weight of spinner extra).
 - (2) Eligible with Cessna spinner dome 0752006 and bulkhead 0850300.

NOTE 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
7636C	Lycoming O-290-D2A	74	72	Never exceed 2750 rpm
	Lycoming O-320	76	72	None
7636D	Lycoming O-290-D2A	76	72	None
	Lycoming O-320	76	70	None
	Lycoming O-320-B1A	72	70	None
	Lycoming O-340	76	72	None
8433	Continental O-470-A	84	82	None
	Continental O-470-B	84	80	None
	Continental O-470-H	84	81	None
	Continental O-470-J	84	82	None
	Continental O-470-K	84	78	None
	Continental O-470-L	84	78	None
	Continental O-470-M	84	80	None
	Continental IO-470-C	84	80	None
	Continental IO-470-D	80	78	None
	Lycoming O-320	72	70	None
	Lycoming O-340	72	70	None
	Lycoming O-340-A1A	72	70	None
	Lycoming O-540-A1A	77	76	Avoid continuous operation between 2225 and 2275 rpm
	Lycoming O-540-A1A	82	80	None
	Lycoming O-540-A1A5, -A1B5	77	73	None
Lycoming O-540-A2B	82	80	None	
Lycoming O-540-B1A5	77	73	None	
Lycoming O-540-B1B5	77	73	None	
8833	Continental O-470-A	88	86	None
	Continental O-470-E	88	86	None
	Continental O-470-J	88	86	None
	Continental O-470-K	88	86	None
	Continental O-470-L	88	86	None
	Lycoming O-640-A1A5	88	86	Avoid cont. eng. operation between 1950 and 2200 rpm
9333C	Lycoming GO-435-C2B, -C2B1	93	91	Avoid cont. eng. operation between 1675 and 2160 rpm, between 2900 and 3200 rpm
	Lycoming GO-435-C2B, -C2B1	90	88	None
	Lycoming GO-435-D1	91	89	Avoid cont. eng. operation between 1675 and 2160 rpm, between 2900 and 3200 rpm
	Lycoming GO-435-D1	90	88	None
	Lycoming GO-480-B1A	90	88	None
	Lycoming GO-480-A1A	90	88	None
	Lycoming GO-430-B, -B1C	90	88	None
	Continental GO-300-A	90	90	None
10133D	Lycoming GO-435-C2B, -C2B1	101	95	Avoid cont. eng. operation between 2600 and 2975 rpm
	Lycoming GO-480-B1A6	98	92	None
	Lycoming GO-435-C2B2-6	101	95	None
	Lycoming GO-435-C2B-6	101	85	None

Note 10.

Special Note.

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

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