DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

P-784
Revision 5
Hamilton Standard
24D

December 3, 1970

TYPE CERTIFICATE DATA SHEET NO. P-784

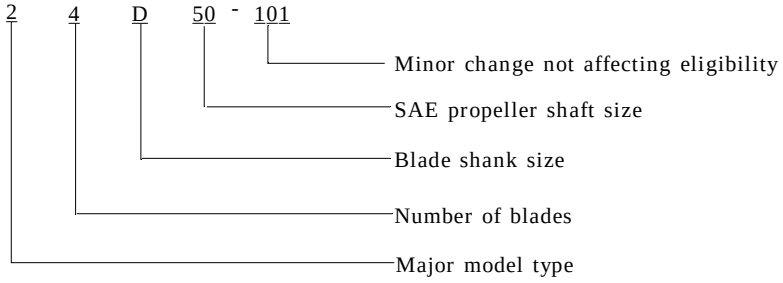
Propellers of models described herein conforming with this data sheet (which is part of type certificate no. 784) and other approved data on file with the Federal Aviation Administration meet the minimum standards for use in certificated aircraft in accordance with pertinent aircraft data sheets and applicable portions of the Civil Air Regulations/Federal Aviation Regulations provided they are installed, operated, and maintained as prescribed by the approved manufacturer's manuals and other approved instructions.

Type Certificate Holder	Hamilton Standard Division United Aircraft Corporation Windsor Locks, Connecticut 06096
Type	Hydraulically controllable, Feathering (see NOTES 3 and 4)
Engine shaft	SAE No. 50, or X (X indicates special shaft sizes for foreign engines are eligible.)
Hub material	Steel
Blade material	Aluminum alloy
Number of blades	4
Hub model eligible	24D50 and 24X (see NOTE 1)

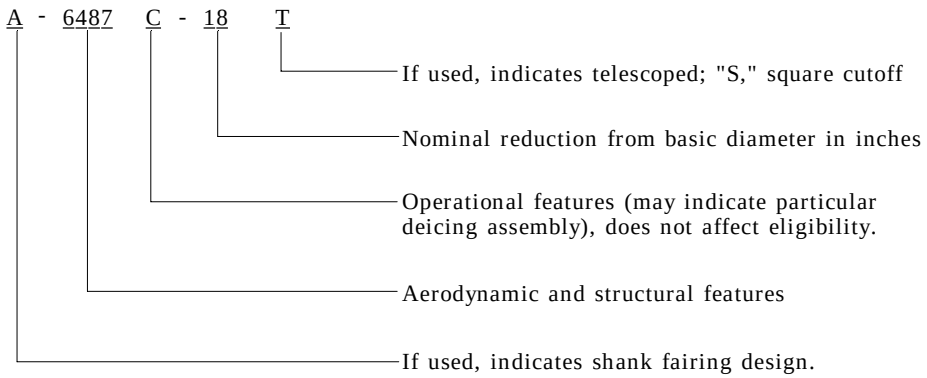
Blade Eligible (See Note 2)	Maximum Continuous HP	Maximum Continuous RPM	Takeoff HP	Takeoff RPM	Diameter Limits (See Note 2)	Hub and Blade Weight (Max Diameter)	NOTES
6487-0 to 6487-36	1625	1280	1935	1350	13'1-5/8"- 10' 1-5/8" (-0 to -36)	441 lbs.	8
6488 is the left-hand version of 6487.							5
6813-0 to 6813-18	1440	1350	1770	1420	13' 1-5/8" - 11' 7-5/8" (-0 to -18)	447 lbs.	8
6814 is the left-hand version of 6813.							5
6547-6	1200	1290	1490	1440	11'-5/8"	437 lbs.	8

Certification basis	Type Certificate No. 784 issued March 12, 1942.
Production basis	Production Certificate No. 14

NOTE 1. Hub Model Designation



NOTE 2. Blade Model Designation



The blade model designation suffixed with "T" indicates a diameter reduction by telescoping. Blade models with square cutoffs in accordance with Hamilton Standard blade drawings are suffixed with "S." Telescoped blades and blades with a square cutoff are eligible at the same ratings and diameter limits as blades with standard cutoff. Diameter limits shown are nominal diameters of the assembled propeller and do not include the ±1/8 inch manufacturing tolerance permissible for propellers with basic diameter less than 14 feet or ±1/4 inch permissible for propellers with basic diameter 14 feet or larger.

NOTE 3. Pitch Control. With Hamilton Standard constant speed governor only.

NOTE 4. Feathering. Eligible with full feathering control installed in accordance with the propeller manufacturer's instructions.

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

NOTE 6. Interchangeable 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. Blades with an "S" or "T" suffix (see NOTE 2) are not interchangeable aerodynamically or vibrationwise with each other or with blades having normal round cutoffs. Blades with different model numbers should not be incorporated in the same propeller and reference should always be made to the ratings of the blades.

NOTE 7. Accessories.

(a) Propeller Deicing. With Hamilton Standard deicing slinger ring assemblies only.
(b) Propeller Spinner. With spinner supplied by Hamilton Standard.

NOTE 8. Shank Fairings. A letter and a dash prefix included in the blade model designation (as A-6487) indicates that the blade assembly includes molded shank fairings. Fairings are eligible only on those model blades specifically designated. The following procedure should be followed when determining if blades with molded shank fairings are eligible on a model aircraft.

(a) Refer to the pertinent propeller specification and determine whether an assembly of the blade model in question is eligible to incorporate a molded shank fairing.
(b) Refer to the pertinent aircraft specification and determine whether the same model blade with incorporated molded shank fairing is eligible in the propellers of that model aircraft.

NOTE 9. Special Limits. Not applicable.

NOTE 10. Special Notes. For approval, compliance with the applicable aircraft airworthiness requirements is necessary.

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