DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

P4EA
Revision 11
Sensenich
76E Series
May 20, 2005

TYPE CERTIFICATE DATA SHEET NO. P4EA

Propellers of models described herein conforming with this data sheet (which is part of Type Certificate No. P4EA) 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 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 — Sensenich Propeller Manufacturing Company, Inc.
14 Citation Lane
Lititz, PA 17543

Type — Fixed-Pitch Metal
Material — Aluminum Alloy
Number of Blades — Two

Basic Model (See Note 2)	Takeoff & Max. Cont. HP	Takeoff & Max. Cont. RPM	Diameter	Standard Pitch	Hub Drilling No. Holes	Hub Drilling Dia. Holes	Hub Drilling Dia. Bolt Circle	Hub Dimensions Dia.	Hub Dimensions Thick.	Weight (lb.) (Max. Dia.)
76EM8	18	2700	76"	68"-52"	6	33/64"	4-3/4"	6"	3-9/16"	34.5
Deleted December 14, 1995, See Note 2										
76EC	21	2800	76"	68"-52"	6	33/64"	4"	6"	3-9/16"	34.5

Certification Basis — CAR 14 as amended to December 15, 1956
Type Certificate No. P4EA issued May 14, 1962
Date of application for Type Certificate September 7, 1961

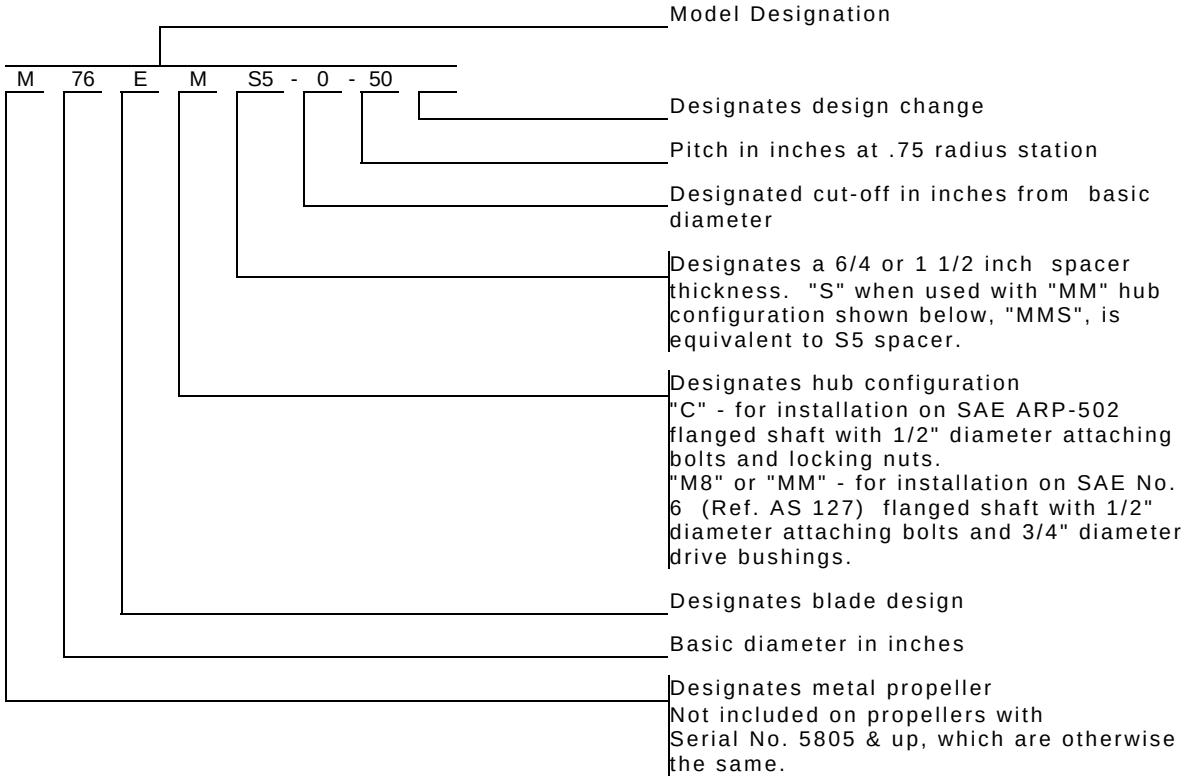
Production Basis — Production Certificate No. 1NE

NOTE 1. Installation. These models are for installation on flanged propeller shaft ends (see NOTE 2). Installation is to be made with special steel bolts which are furnished or specified by the propeller manufacturer in accordance with the appropriate propeller assembly drawing. See NOTE 7 for spacer designations and NOTE 9 for approved spacer lengths.

a. Propeller Model 76EM8 is installed on SAE No. 6 flanged shaft with 1/2 inch diameter attaching bolt and 3/4 inch diameter drive bushings.

b. Propeller Model 76EC is installed on SAE ARP-502 flanged shaft with 1/2 inch diameter attaching bolt and locking nuts.

NOTE 2. Model Designation.



NOTE 3, 4, 5, 6, and 8. Not applicable.

NOTE 7. Accessories:

Spacers. Sensenich spacer models are identified by flange codes (see NOTE 2) and spacer thickness designated based on multiples of 1/4 inch. See NOTE 9 for approved spacer lengths.

Spinners. The following spinner parts are approved for use with propeller model 76EC:

Sensenich Dwg No.	Description
C-2347	Spinner Dome
C-2391	Rear Bulkhead
C-2392	Front Bulkhead

NOTE 9. Special Limits. 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.

Propeller Model	Engine Model	Max. Dia. (Inches)	Min. Dia. (Inches)	Placards
76EM8, Spacers 0 to 4.0 inches, incl.	Lycoming O-360 / IO-360 Series with Hollow Crankshafts (Excludes engines with suffixes having a digit "4" or higher in the second position.) 180 h.p. and 2700 r.p.m.	76	76	Avoid continuous operation between 2150 and 2350 r.p.m.
76EM8, Spacers 0 to 4.0 inches, incl.	Lycoming O-360 / IO-360 Series with Solid Crankshafts (Engines with suffixes having a digit "4" or higher in the second position.) 180 h.p. and 2700 r.p.m.	76	76	None
76EM8, Spacers 0 to 4.0 inches, incl.	Superior Vantage O-360 / IO-360 Series with Hollow Crankshafts 180 h.p. and 2700 r.p.m.	76	76	Avoid continuous operation between 2150 and 2350 r.p.m.
76EC, Spacers 0 to 4.0 inches, incl.	Continental IO-360-ES Series engines 210 h.p. and 2800 r.p.m.	76	74	Avoid continuous static operation above 2100 r.p.m.

NOTE 10. Special Notes. 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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