

**MINISTÉRIO DA AERONÁUTICA
DEPARTAMENTO DE PESQUISAS E DESENVOLVIMENTO
CENTRO TÉCNICO AEROESPACIAL**

TYPE CERTIFICATE DATA SHEET Nº EH-9808

Type Certificate Holder:

SENENICH PROPELLER MANUFACTURING CO., INC.
14 Citation Lane
Lititz, Pennsylvania PA 17543
USA

EH-9808

Sheet 01

SENENICH

74D

October 98

Propellers of models described herein conforming with this data sheet, which is part of Type Certificate No. 9808, meet the minimum standards for use in certificated aircraft in accordance with pertinent aircraft data sheets and applicable portions of the Brazilian Aeronautical Regulations provided they are installed, operated, and maintained as prescribed by the approved manufacturer's manuals and other instructions.

TYPE	Fixed-Pitch Metal
ENGINE SHAFT	See Note 1
HUB MATERIAL	Aluminum Alloy
BLADE MATERIAL	Aluminum Alloy
NUMBER OF BLADES	Two

HUB ELIGIBLE 74D

Basic Model (See Note 1)	Max. Continuous & Takeoff Power		Standard Pitch in	Diameter Limits		Approx. Max. Weight Compl. (Max. Diam.)	
	hp	rpm		m	in	Kg	lb
74DM6	165	2800	68 - 48	1.88	74	14.70	32.4
74DM7	165	2800	68 - 48	1.88	74	14.70	32.4
74DR	165	2800	68 - 48	1.88	74	13.38	29.5
74DC	165	2800	68 - 50	1.88	74	14.11	31.1

CERTIFICATION BASIS CAR 14 effective March 5, 1952, as amended by 14-1 effective May 16, 1953.

TYPE CERTIFICATION

	74D	Application 07 May 1998	Issued TC 26 Oct. 1998
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PRODUCTION BASIS Production Certificate No. 1NE

IMPORT REQUIREMENTS Each propeller imported separately and/or spare parts must be accompanied by an Airworthiness Certificate for Export and/or an Airworthiness Approval Tag, respectively, issued by FAA, attesting that the particular propeller and/or parts were submitted to the governmental quality control before delivery and are in conformity with the CTA approved type design.

NOTES

NOTE 1 Model Designation: M 74 D M S5 2 60 _

- M Designates metal propeller.
Not included on propellers with Serial No. 26474 & up, which are otherwise the same.
- 74 Basic diameter in inches.
- D Designates blade design.
- M Designates hub configuration:
"C" - for installation on SAE ARP-502 flange shaft.
"M" or "M6" - for installation on SAE No. 2 flange shaft using 3/8" diameter attaching bolts and 5/8" diameter drive bushings.
"R" - for installation on SAE No. 3 flange shaft.
Suffix numbers for hubs (as applicable) only stamped on propellers with Serial Number 26476 and up.
- S5 Designates a 5/4 or 1 1/4 inch spacer thickness.
- 2 Designated cut-off in inches from basic diameter.
- 60 Pitch in inches at the .75 radius station.
- _ Designates design change.

NOTE 2 Hub Drilling and Dimensions

	74DM6	74DM7	74DR	74DC
Hub Drilling				
No. Holes :	6	6	8	6
Diameter Holes:	25/64"	29/64"	25/64"	33/64"
Diameter Bolt Circle:	4-3/4"	4-3/4"	5-1/4"	4"
Hub Dimensions				
Hub Diameter	6"	6"	6-1/2"	5-1/2"
Dimensions Thick.:	3-7/16"	3-7/16"	3-7/16"	3-7/16"

NOTE 3 Installation.

These models are for installation on flanged propeller shaft ends (See Note 1). 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 4 for spacer designations and Note 5 for approved spacer lengths.

- Propeller Model 74DC is installed on SAE ARP-502 flanged shaft.
- Propeller Model 74DR is installed on SAE No. 3 flanged shaft.
- Propeller Model 74DM6 is installed on SAE No. 2 flanged shaft with 3/8 inch diameter attaching bolts and 5/8 inch diameter drive bushings.
- Propeller Model 74DM7 is installed on SAE No. 2 flanged shaft with 7/16 inch diameter attaching bolts and 5/8 inch diameter drive bushings.

NOTE 4 Spacers.

Sensenich spacer models are identified by flange code (See Note 1) and spacer thickness designated based on multiples of 1/4 inch. See Note 5 for approved spacer lengths.

NOTE 5 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
74DM6, 74DM7 Spacers 0 to 3.5 inches incl.	Lycoming O-320 Series 160 hp @ 2700 rpm or less.	74	72	None
74DM6, 74DM7 Spacers 0 to 3.5 inches incl.	Lycoming O-290-D, -D2 and -D2B Series	74	72	None

74DC	Franklin 6A4-150-B4	74	72	Avoid continuous operation between 2150 & 2250 rpm on ground and in flight
74DR	Franklin 6A4-165-B3	74	72	Avoid continuous operation between 2150 & 2250 rpm on ground and in flight
74DC	Franklin 6A4-165-B4	74	72	Avoid continuous operation between 2150 & 2250 rpm on ground and in flight.
74DR-1	Continental C-125-2	73	71	None
74DR	Continental C-145 Series and Continental O-300-A, -B, 145 hp @ 2700 rpm or less.	74	72	None
74DC	Continental O-300-C,-D, and -E, 145 hp @ 2700 rpm or less	74	72	None
74DC	Continental IO-346-A 165 hp @ 2700 rpm or less.	74	74	None

NOTE 6 Special Notes.

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

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