

DEPARTMENT OF TRANSPORTATION  
FEDERAL AVIATION ADMINISTRATION

P-170  
Revision 29  
Sensenich  
All Wood Propellers  
(Active)  
December 10, 2003

TYPE CERTIFICATE DATA SHEET NO. P-170

Propellers of models described herein, conforming with this data sheet 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 Wood Propeller Company, Inc.  
Plant City, FL 33563

Type                                  Fixed pitch wood  
Material                              Laminated birch/maple with fabric and metal tipping; or with synthetic leading edge  
No. of blades                        Two

Model (See Note 2)	Type Cert.	Maximum Continuous*		Diameter	Standard Pitch	Hub Drilling			Hub Dimensions		Weight (lbs.)	See Notes
		HP	RPM			No. Holes	Dia. Holes	Dia. Bolt Circle	Dia.	Thick-ness		
W46FN	P34EA	45	4000**	46 3/16"	36"-24"	6	25/64"	3"	4-1/2"	2-1/4"	3.6	1,2a
W46FNL	P34EA	45	4000**	46 3/16"	36"-24"	6	25/64"	3"	4-1/2"	2-1/4"	3.6	1,2a,g
W58LKL	P62GL	100	2750	58"	73"-65"	6	25/64"	4-3/8"	6-1/8"	4-1/2"	8.5	1,2a,g
W60GM	P38EA	60	3200	60"	40"-30"	6	25/64"	4-3/4"	6-1/2"	3-1/2"	8.5	1,2a
W60MY	765	65	2550	60"	54"-44"	6	25/64"	4-3/8"	6"	3-1/4"	10	1,2a
W63AB	731	75	3100	63"	48"-38"	6	25/64"	4-3/8"	6"	3-1/4"	7	1,2a
W65CK	765	65	2300	65"	65"-54"	6	25/64"	4-3/8"	6-1/8"	3-3/8"	10	1,2a
W66CB	765	75	3100	66"	57"-38"	6	25/64"	4-3/8"	6"	3-1/4"	10	1,2a
W68T6EM	P33NE	132	2800**	68"	76"-56"	6	25/64"	4-3/4"	6-1/8"	3-7/8"	10.75	1,2a,e
W69A	666	45	2575	69"	36"-28"	6	25/64"	5"	6-3/8"	2-1/2"	8	1,2a
W69C	537	40	2575	69"	26"-23"	6	25/64"	4"	5-3/8"	3-1/4"	9	1,2a,c
W69J	564	40	2575	69"	28"-26"	6	25/64"	4"	5-3/8"	3-1/4"	9	1,2a,c
W70A	734	85	2700	70"	56"-52"	6	25/64"	4-3/8"	6-1/8"	3-3/8"	9	1,2a
W70AB	734	90	2500	70"	56"-46"	6	25/64"	4"	6-1/8"	4"	9	1,2a
W70AF	734	80	2650	70"	56"-46"	6	25/64"	4"	6-1/8"	3-1/4"	8	1,2a
W70AK	734	85	2575	70"	56"-50"	6	25/64"	4-3/8"	6-1/8"	3-3/8"	8	1,2a
W70D	734	80	2700	70"	46"-38"	6	25/64"	4-3/8"	6-1/8"	3-3/8"	9	1,2a
W70DF	734	80	2500	70"	50"-44"	6	25/64"	4"	6-1/8"	3-1/4"	9	1,2a
W70DK	734	80	2700	70"	46"-38"	6	25/64"	4-3/8"	6-1/8"	3-3/8"	9	1,2a
W70F	679	60	2400	70"	47"-43"	6	25/64"	4"	6"	3-1/4"	9	1,2a,b
W70L	679	55	2300	70"	47"-41"	6	25/64"	4-3/8"	6"	3-1/4"	9	1,2a,b
W70LY	718	65	2550	70"	40"-32"	6	25/64"	4-3/8"	6-1/8"	3-1/4"	9	1,2a
W71T5HZ	P62GL	200	2700**	71"	70"-53"	6	33/64"	5-1/2"	8"	3-5/8"	12	1,2a,e,f
W72C	691	65	2350	72"	50"-40"	6	25/64"	4-3/8"	6-1/8"	3-3/8"	10	1,2a
W72CK	691	65	2350	72"	50"-40"	6	25/64"	4-3/8"	6-1/8"	3-3/8"	10	1,2a
W72DF	734	90	2500	72"	55"-48"	6	25/64"	4"	6-1/8"	4"	9	1,2a
W72F	691	65	2350	72"	50"-40"	6	25/64"	4"	6-1/8"	3-1/4"	10	1,2a
W72GA	782	85	2650	72"	54"-46"	6	25/64"	4-3/8"	6-1/8"	3-3/8"	10	1,2a

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Model (See Note 2)	Type Cert.	Maximum Continuous*		Diameter	Standard Pitch	Hub Drilling			Hub Dimensions		Weight (lbs.)	See Notes
		HP	RPM			No. Holes	Dia. Holes	Dia. Bolt Circle	Dia.	Thick-ness		
W72GK	782	85	2650	72"	54"-44"	6	25/64"	4-3/8"	6-1/8"	3-3/8"	10	1,2a
W72GK	782	90	2600	72"	54"-44"	6	25/64"	4-3/8"	6-1/8"	3-3/8"	10	1,2a
W72GKL	782	85	2650	72"	54"-44"	6	25/64"	4-3/8"	6-1/8"	3-3/8"	10	1,2a,g
W72GKL	782	90	2600	72"	54"-44"	6	25/64"	4-3/8"	6-1/8"	3-3/8"	10	1,2a,g
W72L	678	50	2600	72"	51"-31"	6	25/64"	4-5/8"	6-1/8"	3-1/2"	10	1,2a
W72T2FC	765	90	2600	72"	49"-43"	6	25/64"	4-3/8"	6-1/8"	3-3/8"	11	1,2a,,j
W72T2FK	765	90	2600	72"	49"-43"	8	25/64"	4-3/8"	6-1/8"	3-3/8"	11	1,2a,,j
W72T2FM	765	135	2600	72"	57"-37"	6	25/64"	4-3/4"	6-1/2"	3-1/2"	11	1,2a,,j
W72KZL	P29NE	180	2700**	72"	56"-46"	6	33/64"	4-3/4"	6-3/4"	3-5/8"	12.4	1,2a,g
W73BE	838	125	2550	73"	60"-50"	8	29/64"	5-1/4"	7-1/2"	4-1/8"	14	1,2a
W73BG	838	125	2550	73"	60"-50"	8	25/64"	5-1/4"	7-1/2"	4"	14	1,2a
W73BR	838	145	2700	73"	60"-40"	8	25/64"	5-1/4"	7-1/2"	4"	14	1,2a
W73FG	766	165	2850	73"	48"-38"	8	25/64"	5-1/4"	7"	4-1/4"	14	1,2a
W73FM	765	125	2600	73"	60"-40"	6	25/64"	4-3/4"	6-1/2"	3-1/2"	11	1,2a
W74B	689	90	2250	74"	58"	6	29/64"	4-5/8"	6-7/8"	4"	14	1,2a
W74CF	766	120	2600	74"	60"-53"	8	29/64"	5"	7-1/4"	4"	12	1,2a
W74FC	765	90	2600	74"	49"-43"	6	25/64"	4-3/8"	6-1/8"	3-3/8"	11	1,2a,,j
W74FCT	765	85	2575	74"	49"-43"	6	25/64"	4-3/8"	6-1/8"	3-3/8"	12	1,2a
W74FD	765	90	2600	74"	49"-43"	6	25/64"	4"	6-1/8"	4"	11	1,2a,,j
W74FDS	765	90	2500	74"	49"-43"	6	25/64"	4"	9-1/2"	4"	13	1,2a,h,,j
W74FE	765	104	2600	74"	49"-37"	6	25/64"	4-3/4"	6-1/2"	4"	11	1,2a,,j
W74FK	765	90	2600	74"	49"-43"	6	25/64"	4-3/8"	6-1/8"	3-3/8"	11	1,2a,,j
W74FKT	765	85	2575	74"	49"-43"	6	25/64"	4-3/8"	6-1/8"	3-3/8"	12	1,2a
W74FM	765	135	2600	74"	57"-37"	6	25/64"	4-3/4"	6-1/2"	3-1/2"	11	1,2a,,j
W74RR	789	165	2800	74"	70"-59"	8	25/64"	5-1/4"	7"	4"	13	1,2a
W74LN	538	95	2200	74"	70"-50"	6	29/64"	4-5/8"	6-7/8"	4-1/4"	8	1,2a
W76B	667	50	1900	76"	53"-47"	6	25/64"	4-3/8"	6-1/8"	3-3/8"	13	1,2a,b
W76C	692	65	2350	76"	48"-38"	6	25/64"	4-3/8"	6-1/8"	3-3/8"	10	1,2a
W76CK	692	95	2600	76"	48"-34"	6	25/64"	4-3/8"	6-1/8"	3-3/8"	10	1,2a
W76D	711	90	2375	76"	57"-53"	6	29/64"	4-5/8"	6-7/8"	4"	14	1,2a
W76HZ	P62GL	200	2700**	76"	68"-56"	6	33/64"	5-1/2"	8"	3-5/8"	13.5	1,2a,e,f
W76JA	766	150	2600	76"	61"-54"	8	25/64"	5"	7"	4"	15	1,2a
W76JB	766	125	2600	76"	61"-40"	8	25/64"	5-1/4"	7"	4"	15	1,2a
W76JR	766	165	2800	76"	61"-41"	8	25/64"	5-1/4"	7"	4"	15	1,2a
W76KY	P62GL	200	2700**	76"	68"-56"	6	33/64"	5-1/2"	8"	4-3/4"	16	1,2a,e
W76KZ	P62GL	200	2700**	76"	68"-56"	6	33/64"	5-1/2"	8"	4-3/4"	16	1,2a,e,f
W76L	738	75	2015	76"	60"-46"	6	25/64"	4-3/4"	6-1/8"	3-1/2"	11	1,2a
W76RK	834	85	2550	76"	47"-37"	6	25/64"	4-3/8"	6-1/2"	3-3/8"	11	1,2a
W76RM	834	110	2600	76"	47"-37"	6	25/64"	4-3/4"	6-1/2"	3-1/2"	11	1,2a
W78LY	538	75	2015	78"	56"-48"	6	25/64"	4-3/4"	6-1/2"	3-1/2"	12	1,2a
W78R	538	120	2225	78"	59"-50"	6	29/64"	4-5/8"	7-3/8"	4"	13	1,2a
W79CFL	P42EA	130	2350	79"	68"-60"	8	25/64"	4-23/32"	8.2"	3-23/32"	15	1,2a,g
W80EY	865	185	2300	80"	88"-76"	8	29/64"	6"	8"	5"	20	1,2a
W80R	538	150	2260	80"	73"-69"	8	25/64"	5-1/4"	7"	4-3/8"	13	1,2a,b
W80W	547	90	2025	80"	49"	8	25/64"	5-1/4"	7"	4"	14	1,2a
W82R	538	145	2050	82"	83"-77"	8	25/64"	5-1/4"	7-3/4"	4"	14	1,2a
W82RA	538	165	2100	82"	83"-68"	8	25/64"	5-1/4"	7-3/4"	4-1/8"	13	1,2a
W82RS	538	200	2450	82"	72"-66"	8	25/64"	5-1/4"	12-1/8"	4-1/8"	17	1,2a,d,h
W85RB	586	190	2550	85"	61"-50"	6	25/64"	6-3/16"	8"	4-1/8"	19	1,2a
W85RW	586	190	2550	85"	61"-50"	8	25/64"	5-1/4"	8"	4-1/8"	19	1,2a
W86AB	586	200	2450	86"	60"-50"	6	25/64"	6-3/16"	8"	4-1/8"	19	1,2a
W86B	586	200	2450	86"	63"-51"	8	25/64"	5-1/4"	12-1/4"	4-3/8"	20	1,2a,b,h
W86BAS	586	200	2450	86"	63"-51"	8	25/64"	5-1/4"	12-1/4"	4-3/8"	20	1,2a,h
W86BS	586	Identical to 86B, except incorporates "S" in model designation.										

Model (See Note 2)	Type Cert.	Maximum Continuous*		Diameter	Standard Pitch	Hub Drilling			Hub Dimensions		Weight (lbs.)	See Notes
		HP	RPM			No. Holes	Dia. Holes	Dia. Bolt Circle	Dia.	Thick- ness		
W86C	654	145	2050	86"	70"-61"	8	25/64"	5-1/4"	8"	4"	19	1,2a,b
W86CA	654	200	2450	86"	70"-63"	8	25/64"	5-1/4"	8"	4-1/8"	19	1,2a,b
W86CB	654	200	2450	86"	70"-61"	6	25/64"	6-3/16"	8"	4-1/8"	19	1,2a
W86R	586	200	2450	86"	62"-50"	8	25/64"	5-1/4"	8"	4-1/8"	19	1,2a
W86RA	586	200	2450	86"	62"-50"	8	29/64"	7"	9-1/4"	6"	26	1,2a
W86RB	586	200	2450	86"	62"-50"	6	25/64"	6-3/16"	8"	4-1/8"	19	1,2a
W90BA	517	145	2050	90"	61"-45"	8	25/64"	5-1/4"	7-3/8"	4"	19	1,2a
W90BAL	517	145	2050	90"	61"-45"	8	25/64"	5-1/4"	7-3/8"	4"	19	1,2a,g
W90D	586	160	1975	90"	82"-64"	8	25/64"	5-1/4"	7-3/8"	4"	19	1,2a
W90D	586	160	1975	90"	82"-64"	8	29/64"	5-1/4"	7-3/8"	4"	19	1,2a
W90DA	586	160	1975	90"	82"-64"	8	25/64"	5-1/4"	7-3/8"	4"	19	1,2a
W90DH	586	160	1975	90"	82"-64"	8	29/64"	5-1/4"	7-3/8"	4"	19	1,2a
W90H	586	160	1850	90"-80"	82"-64"	8	29/64"	6-1/4"	9"	4-1/4"	19	1,2a
W90HA	586	160	1850	90"	90"-80"	8	29/64"	7"	9"	5-1/4"	26	1,2a
W90HAK	586	160	1850	90"	90"-80"	8	29/64"	7"	9"	6"	26	1,2a
W90HASP	586	160	1850	90"	90"-80"	8	29/64"	7"	17-7/8"	5.25"	26	1,2a,i
W90JA	811	225	2000	90"	83"-79"	8	29/64"	7"	9-1/4"	6"	27	1,2a
W90LA	546	220	2075	90"	80"-76"	8	29/64"	7"	9-1/4"	6"	26	1,2a
W90T6JA	P43EA	275	2200	90"	72"-60"	8	29/64"	7"	9-1/4"	6"	32	1,2a,d
W90T6JB	P43EA	275	2200	90"	72"-60"	8	21/32"	6-11/16"	9-1/4"	6"	32	1,2a,d
W92H	586	160	1850	92"	77"-70"	8	29/64"	6-1/4"	9"	4"	25	1,2a
W92HA	586	160	1850	92"	77"-70"	8	29/64"	7"	9"	5-1/4"	25	1,2a
W96JA	P43EA	240	2100	96"	66"-54"	8	29/64"	7"	9-1/4"	6"	34	1,2a,d
W96JB	P43EA	240	2100	96"	66"-54"	8	21/32"	6-11/16"	9-1/4"	6"	34	1,2a,d
W98AA	546	225	2100	98"	68"-62"	8	29/64"	7"	9-1/4"	6"	31	1,2a
W98AB	546	225	2100	98"	68"-62"	8	21/32"	6-11/16"	9-1/4"	6"	31	1,2a
W98AC	546	225	2100	98"	68"-62"	8	33/64"	6-11/16"	9-1/4"	6"	31	1,2a
W98C	586	225	2100	98"	70"-64"	8	33/64"	6.693"	9-1/4"	6"	28	1,2a
W100CC	546	225	2100	100"	67"-58"	8	33/64"	6.693"	9-1/4"	6"	31	1,2a
W100CD	546	225	2100	100"	67"-58"	8	33/64"	6.693"	9-1/4"	6"	31	1,2a
W102	450	102	1400	102"	59"	8	25/64"	5-1/4"	7-1/8"	4"	21	1,2a
W102A	464	102	1400	102"	65"	8	25/64"	5-1/4"	7-1/8"	4"	21	1,2a
W755CF	463	63	2125	75-1/2"	36"	6	25/64"	4-23/32"	6-1/4"	4"	11	1,2a

\*Takeoff rating is ten percent in excess of maximum continuous rating.

\*\*Takeoff rating is same as maximum continuous rating.

Certification basis

Civil Air Regulations Part 14

Federal Aviation Regulations Part 35 effective February 1, 1965, (pertains to all wood models certificated after September 1, 1969)

Production basis

Production Certificate No. 335CE

NOTE 1. Installation.

Installation is to be made in accordance with AC No. 43.13-1B, Chapter 8, Section 5.

Installation of wood propellers on flanged crankshafts must include a front plate of approximately the same area and thickness as the flange and AN bolts conforming to MIL-B-6812.

Installations which include a flange adapter (see NOTE 2.) must also be accomplished in accordance with instructions provided by Sensenich Wood Propeller Company.

The W68T6EM propeller is eligible for installation with spool spacers up to a maximum length of 6 inches.

NOTE 2. Model Designation.

Model Designation

W 76 HZ 10M8 - 79

Designates design change

- (a) Denotes Pitch in inches at .75 radius station.
- (b) Dash number 1, 2, or 3 after basic model on serial numbers below 16,000 refers to difference in pitch, not in inches.
- (c) Some of the early propellers of this model are not marked with pitch in inches. These propellers are eligible provided the pitch corresponds to the following approved values:

Early Marking	Corresponding Pitch	Current Marking
69C	23"	69C-23
69J	28"	69J-28

- (d) Eligible with or without fabric tipping.
- (e) Eligible with synthetic leading edge in place of metal tipping.
- (f) When "Letter-Number-Letter" combination appears in basic model designation, indicates a flange adapter is included.  
Interior number (i.e. "10") indicates equivalent spacer length in 1/4 inch units (less than or equal to 3 inches, equals 12/4).
- (g) "L" designates left hand rotation.
- (h) "S" designates integral wood spinner.
- (i) "SP" designates integral plywood spinner.
- (j) Propeller model W74F( )-49, beginning with S/N Y7906 is equivalent to and interchangeable with model W74F( )-52 propellers up to S/N Y7905.

Designates design features

Basic diameter in inches

Wood aircraft propellers shipped after April 25, 1968 include "W" prefix.

NOTES 3, 4, 5, 6, 7, 8, and 9. not applicable

...END...