

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

P21EA
Revision 5
McCauley
D3A32C
3A32C

May 24, 2006

TYPE CERTIFICATE DATA SHEET NO. P21EA

Propellers of models described herein conforming with this data sheet (which is part of type certificate no. P21EA) and other approved data on file with the Federal Aviation Administration meet the minimum standards for use in the 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	McCauley Propeller Systems 7751 East Pawnee Wichita, KS 67207
Type Certificate Holder Record:	Name changed from McCauley Accessory Division, Cessna Aircraft Company, Vandalia, OH 45377 to McCauley Propeller Systems, 7751 East Pawnee, Wichita, KS 67207 May 2006.
Type	Constant speed; hydraulic (see Note 3)
Engine shaft	Special flange 4 inch B.C.
Hub material	Aluminum alloy
Blade material	Aluminum alloy
Number of blades	3
Hub models eligible	3A32C76, D3A32C77, D3A32C79, D3A32C88, D3A32C90

Blades Eligible (See Note 2)	Max. Continuous		Takeoff		Diameter Limits (see Note 2)	Approx. maximum weight complete (for reference only) (See Note 3)
	HP	RPM	HP	RPM		
<u>Hub Models D3A32C77, D3A32C79</u>						
82NK-0 to 82NK-8	285	2700	285	2700	82" - 74" (-0 to -8)	68 lbs., *72 lb.
<u>Hub Models 3A32C76</u>						
82NB-0 to 82NB-8	300	2700	300	2700	82" - 74" (-0 to -8)	68 lbs., *72 lb.
<u>Hub Models D3A32C88, D3A32C90</u>						
82NC-0 to 82NC-8	300	2700	300	2850	82" - 74" (-0 to -8)	64 lbs., *68 lb.

*Higher 82NK weight applies to C77 model, and lower to C79. Higher 82NC weight applies to C88 model and lower to C90.

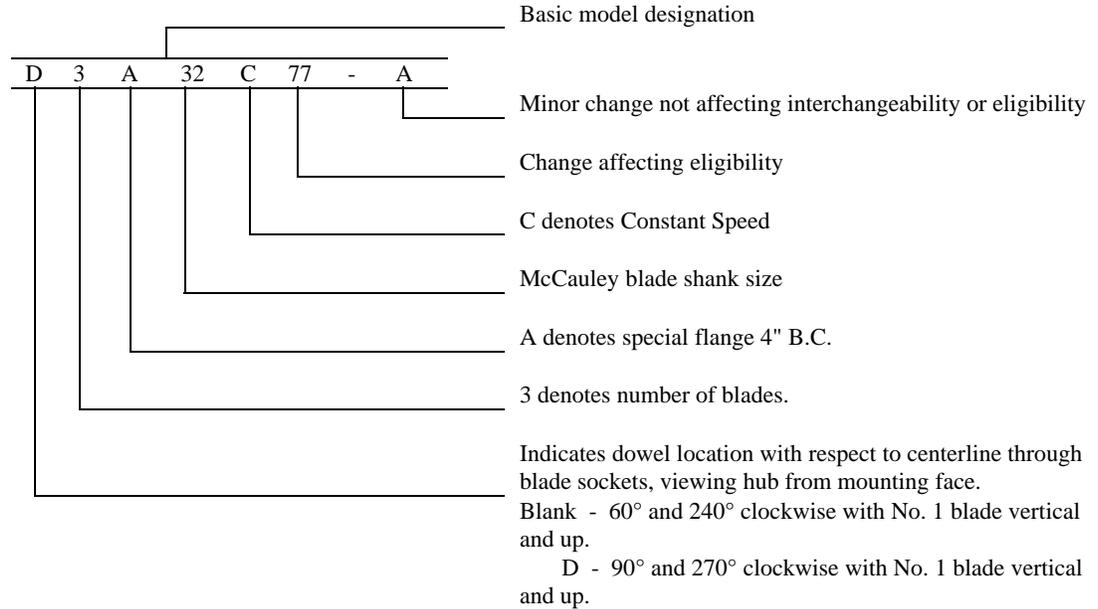
Certification basis	Federal Aviation Regulations Part 35 with Amendment 35-1 thereto. Type Certificate No. P21EA issued July 14, 1965, under Delegation Option Authorization provisions of Part 21 Subpart J of the Federal Aviation Regulations. Date of application for Type Certificate July 7, 1965.
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Production basis	Production Certificate No. 3
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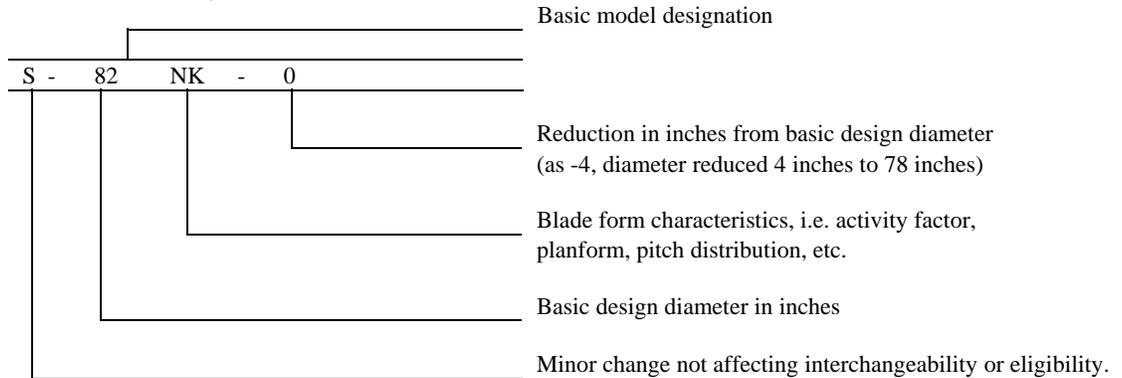
NOTE 1.

Hub Model Designation



NOTE 2.

Blade Model Designation



NOTE 3.

- Pitch controls. Eligible with the following governors:
- | | |
|----------------------------|-------------|
| Woodward Model x, 210, xxx | Wt. 3.5 lb. |
| McCauley Model C290D1/T(X) | Wt. 2.8 lb. |
| McCauley Model C290D2/T(X) | Wt. 2.8 lb. |
| McCauley Model C290D3/T(X) | Wt. 2.8 lb. |
| McCauley Model C290D4/T(X) | Wt. 2.8 lb. |

NOTE 4.

Not applicable.

NOTE 5.

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

NOTE 6.

Not applicable.

NOTE 7.

Accessories.

- (a) Spinners
- (1) 3A32C76 model eligible with McCauley spinners; D-3585 Shell, D-3586 Bulkhead and D-3584 Installation; and D-3597 Shell, D-3599 Bulkhead and D-3600 Installation.
 - (2) D3A32C90 model eligible with McCauley spinner; D-3666 Shell, D-3668 Bulkhead and D-3669 Installation.

NOTE 8. Not applicable.

NOTE 9.

Table of Propeller-Engine Combinations
Approved Vibrationwise for Use on 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.

	<u>Hub Model</u>	<u>Blade Model</u>	<u>Engine Model</u>	<u>Engine Damper Configuration</u>	<u>Max. Dia. (Inches)</u>	<u>(Min. Dia. (Inches)</u>	<u>Placards</u>
	3A32C76	82NB	Continental O-470 & IO-470 series (up to 230hp @ 2600 rpm)	One 6th and	80	74	None
	D3A32C88	82NC		One 5th order			
or	D3A32C90	82NC					
	3A32C76	82NB	Continental IO-470 Ser. (up to 260 hp @ 2625 rpm)	Two 6th and	80	74	None
	D3A32C88	82NC		Two 5th			
or	D3A32C90	82NC		Order			
	3A32C76	82NB	Continental IO-520 and TSIO-520 Series (up to 285 hp @ 2700 rpm rating)	Two 6th, One	80	74	None
	D3A32C88	82NC		5th and One			
	D3A32C90	82NC		4th Order			
	D3A32C77	82NK					
or	D3A32C79	82NK					
	3A32C76	82NB	Continental IO-520 Series (up to 285 hp @ 2700 rpm)	Three 6th and	80	76	None
	D3A32C88	82NC		One 4th Order			
or	D3A32C90	82NC					
	D3A32C88	82NC	Continental IO-520 Ser. (up to 285 hp @ 2700 rpm max. continuous and 300 hp @ 2850 rpm takeoff rating)	Two 6th, One	80	74	None
or	D3A32C90	82NC		5th and One 4th Order			
	D3A32C88	82NC	Continental TSIO-520 Series (up to 285 hp @ 2600 rpm maximum continuous and 300 hp @ 2700 rpm takeoff)	Two 6th, One	80	79	None
or	D3A32C90	82NC		5th and One 4th Order			

NOTE 10. 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 airworthiness requirements.

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