Props

D'Shannon Aviation is the headquarters for new and replacement propellers. With more than 40 years of selling props we have the experience to deliver the right propeller for the right application.
- A modern update to eliminate obsolete Beech, Flottorp, McCauley Threaded, and Steel Hub Hartzells
- Versus 2 Bladed Models

- Lower Noise
- Better take-off and climb performance
- Improved appearance
- Less blade erosion

- Versus All Models

- Better cruise performance
- Brand new blade design
- Current hub design

{tab=Detail Description}The new Super Scimitar from Hartzell is the result of the latest in propeller technology research. Developed using the results of NASA’s Advanced General Aviation Technology Experiments (AGATE) program, the propeller quite simply delivers the “most for the least”.

The “most”, is of course performance. The optimized twist configuration was engineered specifically to improve performance for single engine cowlings. This propeller offers more thrust at a given horsepower in take-off, climb, and cruise than any propeller ever approved for the Bonanza. The “least” refers to noise output, as noise reduction was one of the major objectives of the AGATE program.

The tip design incorporates plan-form and airfoil section changes to reduce tip noise at high power and RPM conditions. It is no secret that propeller diameter reduction in the form of three and four blade propellers reduces noise output. However, the Super Scimitar maintains a healthy 82” diameter, while at the same time producing a lower dB(a) level than current 78” and 80” three blades. This translates into large diameter blade performance combined with a contracted noise signature. The other three blade propellers on the market, designed 30-40 years ago, have been eclipsed. A superior product has evolved with unparalleled technology and performance. Would you invest in anything less?

{tab=Eligible Aircraft}

All Models A35 through V35B including Turbocharged models

All Models 35-33, 33 through F33C,

Models 36, A36, B36, A36TC, and B36TC

{tab=Performance} Climb Performance:
a. 16 - 18% Increase in Take-off Thrust over Standard 3 Blade.
b. 8 - 10% Increase in Take-off Thrust over Standard 2 Blade. Cruise Performance 75% power @ 6000 ft.:
a. 4% Increase in Cruise Thrust over Standard 3 Blade.
b. 6% Increase in Cruise Thrust over Standard 2 Blade. Specifications: 82 inch Diameter (80 inch on K35, M35, N35, P35)
2400/ 6 year TBO
80 lbs. (Prop and spinner), (L hub 81.5 lbs.)
Diameter reduction allowable to 78 inches.

{tab=Comparison}

{tab=Replaces}Beech 278 - 82 inch diameter 2 Bladed Prop
69 - 73 lbs. (Prop and spinner)
82 inch reduceable to 81.5, on some no reduction allowed.

Flottorp F12A - 82- 84 inch diameter 2 Bladed Prop
70 lbs. (Prop and spinner)
84 inch reduceable to 82 inch diameter
82 inch reduceable to 81.5, on some no reduction allowed.

McCauley C23 - 84 inch 2 Bladed Prop
66 lbs. (Prop and spinner)
Oil fill requirement per AD 89-26-08
84 inch reduceable to 82 inch diameter
1200 hours/ 5 year TBO

McCauley C76 - 80 inch diameter 3 Bladed Prop
70 lbs. (Prop and spinner)
80 inch reduceable to 78.5 inch diameter
1200 hours/ 5 year TBO

Hartzell BHC-92ZF - 84 inch dia. 3 Bladed steel hub prop
70 lbs. (Prop and spinner)
84 inch reduceable to 82 inch diameter
2000 hours/ 5 year TBO

Hartzell A3VF - 80 inch diameter 3 Bladed steel hub prop
94 lbs. (Prop and spinner)
400 hour inspection per AD 68-13-2
Clamp inspection/replacement per AD 84-14-10
Blade retention system inspection AD 97-18-02
80 inch reduceable to 78.5 inch diameter

McCauley C406 - 80 inch diameter 3 Bladed Prop
68 lbs. (Prop and spinner)
Diameter reduction allowable to 78 inch diameter
2000 hour / 5 year TBO

Hartzell PHC-(C,L)3YF/F8468A-6R 80 inch 3 Bladed Prop
80 lbs. (Prop and spinner)
Diameter reduction allowable to 78 inch diameter
2400 hour/ 6 year TBO

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