



SWEPT BLADE

Propeller Systems for the King Air Family

Unparalleled performance
More thrust, less noise
Stunning ramp presence



SWEPT BLADE PROPELLERS

FOR 200, 300, C90 & E90 SERIES KING AIRS

What makes Raisbeck's Swept Blade Propellers unique?

Unlike other aviation propellers that appear to be swept, Raisbeck's blade design sweeps not only the leading edge but also the trailing edge. Raisbeck's advanced Swept Technology allows the propeller diameter to be increased to generate more thrust without increasing the sound level in the airplane and on the ground. This in turn provides far more takeoff and climb thrust. Larger propeller diameters increase blade tip Mach numbers, which in turn add undesirable drag and supersonic noise. Introducing blade sweep on both edges overcomes these drawbacks.



Design and Certification

Raisbeck worked jointly with the world's leading propeller manufacturer, Hartzell Propeller, to develop Swept Blade Propellers for the King Air Family. Both composite and aluminum propeller systems were developed with tailored airfoils that extend fully into the spinner, thereby improving prop efficiency by ensuring that every inch of the blades generate thrust. By altering the blade's shape in front of the turbine inlet, airflow into the engine is increased, lowering ITT for a given amount of torque, and allowing operators to generate more total torque at the engines' maximum ITT. Raisbeck's Swept Blade Propellers are FAA-approved and certified worldwide.

Maintenance Savings and Warranty

All Raisbeck Swept Blade Propellers offer 6 years/4,000 hours TBO. Composite 5-Blade Propellers come with industry-leading 3-year/3,000 hour warranties. Aluminum 4-Blade Swept Propellers have 1-year/1,000 hour warranties.



COMPOSITE 5-BLADE PROPELLERS » 200 & 300 SERIES

Noticeably quieter, lighter in weight over aluminum propellers, Raisbeck's Composite 5-Blade Swept Propellers offer greater performance, increased thrust without increasing vibration, strength, and damage resistance. Beyond the inherent weight savings, composite blades provide unlimited blade life and the ability to maintain a more optimum airfoil shape over time, resulting in longer blade life expectancy. Raisbeck/Hartzell composite blades are composed of a metal blade shank retention section onto which is molded a low-density foam core that supports built-up layers of composite laminate. Nickel cobalt leading edges provide superior durability against foreign object damage and improved erosion resistance against environmental conditions.



200 SERIES

- 96-inch diameter
- Carbon fiber composite construction
- 16.5% better runway acceleration
- Improved accel-stop performance
- 25.8% better engine-out climb
- 48% better in prop reverse for decreased landing distance
- 30% noise reduction
- On average 48 lbs. weight savings vs. OEM props
- Unlimited blade life
- Improved resistance to FOD
- Impressive ramp presence
- *Autofeather required*

300 SERIES

- 106-inch diameter
- Carbon fiber composite construction
- 54 lbs. weight savings vs. OEM props
- High rate of climb
- Increased thrust without added noise or vibration
- Unlimited blade life
- Improved resistance to FOD
- Impressive ramp presence
- *Autofeather required*



ALUMINUM 4-BLADE PROPELLERS » 90, 200 & 300 SERIES

Raisbeck first introduced Swept Blade Technology with its Aluminum 4-Blade Swept Propellers. The blade chord, camber, twist and sweep properties are the real secret behind the massive boost in prop efficiency. Operators will gain obvious thrust improvements over factory standard four-blade and three-blade propellers, lowering the prop tips' local Mach number and delaying high speed drag. Certified worldwide to meet stringent noise requirements, Raisbeck's Aluminum 4-Blade Swept Propellers are a great upgrade solution or as part of our EPIC Performance Package for enhanced performance. Raisbeck aluminum propeller blades are made of high-strength aluminum forgings, offer a lower initial cost, and are field-proven over millions of flight hours.



90 SERIES

- For all C90 and E90 King Airs
- 96-inch diameter
- +8.4 lbs. weight increase vs. OEM 4-blade
- Increased thrust without added vibration
- Increased takeoff acceleration
- Improved initial climb rates
- More effective prop reverse
- Quieter cabin
- Impressive ramp presence.
- *Autofeather required*

200 SERIES

- 96-inch diameter
- +.08 lb. weight increase vs. OEM 4-blade
- Increased thrust without added vibration
- Increased takeoff acceleration
- Improved accel-stop performance
- Improved initial climb rates
- More effective prop reverse
- Improved landing deceleration
- Quieter cabin
- Impressive ramp presence
- *Autofeather required*



300 SERIES

- 105-inch diameter
- 4% better takeoff acceleration
- Improved accel-stop performance
- Improved landing deceleration
- 41.2 lbs. weight savings vs. OEM props
- Improved initial climb rates
- More effective prop reverse
- Quieter cabin
- Impressive ramp presence
- *Autofeather required*

GREATER THRUST

“The performance is astronomical from takeoff to landing with these new Raisbeck propellers. It’s like a new airplane!”

— R. Glenn, Morris, Alabama

“The feeling on the power levers when pushing them forward is like a horse raring to go. Propeller reversing spools up significantly quicker. At the flare, when reducing power to idle, the braking/discing isn’t as pronounced and abrupt.”

— R. Dueck, La Crete, Canada

“Raisbeck’s Composite 5-Blade Swept Propellers deliver all the performance advertised and then some. Acceleration forces on takeoff feel remarkably sharper, and the climb rate is significantly greater. Deceleration on landing is astounding even without prop reverse. And single-engine performance is significantly better, while sound levels are much more pleasant with the new props.”

— W. Loveseth, Edmonton, Canada

REDUCED NOISE

“The passengers, in particular, comment that it is quieter in the cabin—nice and quiet.”

— M. Taylor, Toowoomba, Australia

“It’s remarkable, the difference from the new ones to the old ones. The new ones are definitely quieter. As for the short field capability, we’re really enjoying that. But the number one thing for us is the plane is a lot quieter. The plane looks better. And when I get in the plane, it feels better; it sounds better. The Raisbeck props rock!”

— B. Miller, San Diego, California

DURABLE CONSTRUCTION

“In four months, we’ve done around 140 hours onto a dirt strip or sand strip. We’ve had some terrible conditions where we were in the middle of a sandstorm. Neither myself nor the other pilots can understand how little wear there is on the leading edges of those five-blades with the nickel leading edges. It’s like they are brand new!”

— M. Taylor, Toowoomba, Australia



www.raisbeck.com
4411 South Ryan Way
Seattle, WA 98178