

Winglets & Whisper Prop®

A New Spin on King Air Performance

King Air 90



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BLR/MT Whisper Prop & Winglet Videos

Visit [Youtube.com/blraerospace](https://www.youtube.com/blraerospace) for Whisper Prop and Winglet Performance Videos or click the video links below.

King Air Performance BLR Winglets



Performance highlights of the BLR UPP upgrade

King Air Upgrade: BLR Whisper Prop



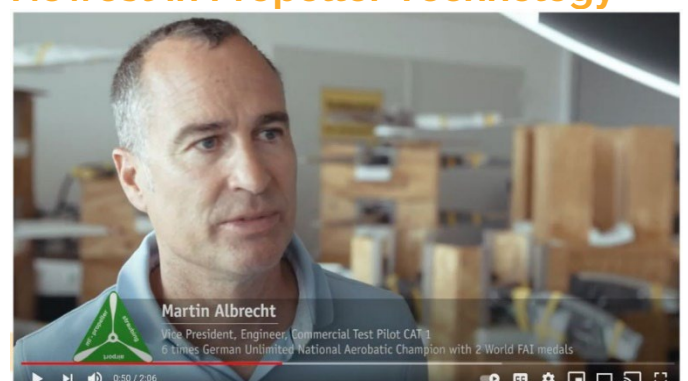
Performance highlights of the Whisper Prop

Discovering MT Propeller



Discovering MT- Propeller's factory

MT Propeller Newest in Propeller Technology



An introduction to MT-Propeller

MT/BLR Whisper Prop® Benefits

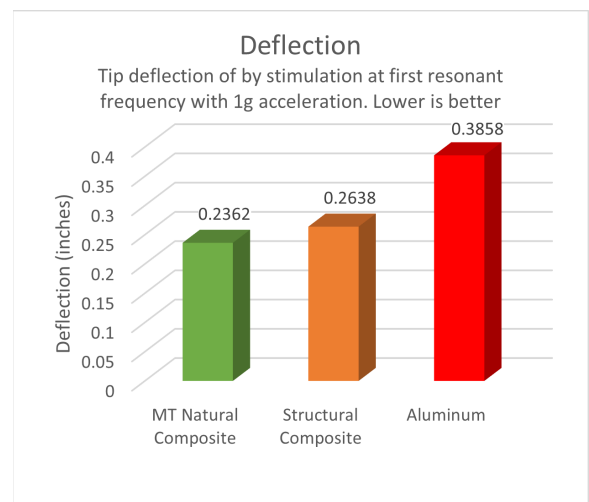
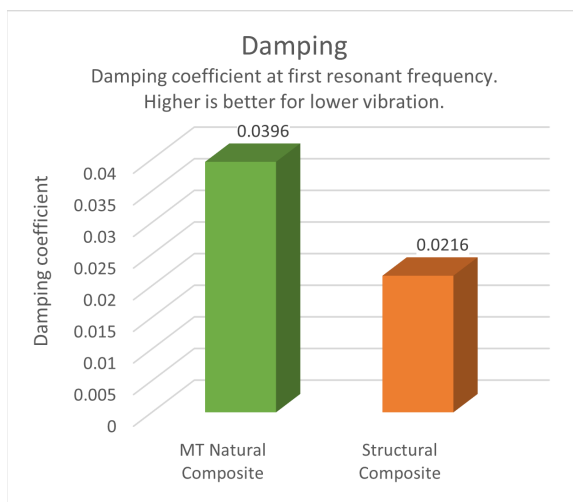
The five-bladed BLR Whisper Prop is manufactured by MT-Propeller. The Whisper Prop is engineered to be the most FOD resistant, quietest, easiest to repair and most durable props on the market today. The core of the blade is a hybrid comprised of resin injected beech and spruce hardwoods. The structural blade core is protected with carbon fiber skins for highest durability. Each blade is finished with a nickel cobalt leading edge, providing industry best erosion and damage protection.

Shortest Blade Diameter - FOD protection

- Smallest propeller available for the KA90 providing less runway FOD to the blades, engine, and hull.
- No compromise to airplane performance

Quietest Propeller - a comfortable cabin experience

- Wood core material paired with the reduction in propeller diameter reduces propeller noise
- Wood core provides a 45% higher damping coefficient which results in a dramatic decrease in vibration and noise, significantly improving cabin and cockpit environment and less vibration fatigue on the aircraft and cockpit instruments.
- Decibels are measured logarithmically, where 3dB represents a 50% reduction in sound pressure level, so the drop of 3.5dB by the Whisper Prop would represent a significant noise reduction compared to the original factory propeller. Certified noise level data is available in EASA's public record, found in ICAO Annex 16 section 10A(a) for take-off noise.



Field Repairable Blades - industry best Return-To-Service (RTS)

- FOD damage is repaired in-field with the blade on the aircraft using quick cure epoxy, allowing for unlimited replacement of blade OML (exterior factory shape/dimensions).
- Hub replacements are unnecessary, unlike other composite & metal props, simply swap blades and fly - no shop rebalancing.
- Quick in-field replacement of blades is possible providing customers with industry best RTS.
- MT Props are, by far, the best solution, especially on high-FOD and remote runways!

MT/BLR Whisper Prop® Benefits

Unlimited Blade Life - last set of blades you'll ever buy

- The core of a Whisper Prop blade is the structural component made of highly engineered composite wood (resin-infused beechwood with external carbon fiber protection plies). Our blade design never needs to be replaced for fatigue damage. Metal props have absolute dimension limits that decrease performance after repairs and eventually expire the blades.
- Improved residual value for airplanes with MT Whisper Propellers.

Nickel-Cobalt Leading Edge Protection - toughest material available

- Superior erosion protection over competitor offering.
- Nickel-cobalt provides 3x more damage resistance than aluminum.

Improved Overhaul Schedule - fly with confidence

- MT recently increased the TBO schedule for all their props to 4500 hours/ 72 months.

No Ground RPM Limitation - best taxiing experience with fuel savings

- Due to unbeaten vibration behavior, no ground or in-flight RPM limitations exist.
- More comfortable taxi experience with fuel-savings and less wear on brakes.

Icing Resistance - better performance in icing conditions




- The MT wood core is designed to have less heat conductivity and less electrical draw than aluminum, meaning your de-ice boots stay hotter only where heat is needed.

Dramatic Reduction in Vibration - easier on the pilot and the aircraft

- A 30-50% reduction in vibration allowing for a smoother flight and better long-term care of your propeller system and aircraft.



King Air 90 Propeller Comparison

	BLR Whisper Prop MT 5 Blade Composite	Raisbeck Swept Turbofan 4 Blade Aluminum	Hartzell Factory GTX 4 Blade Aluminum
2025 Price	\$133,400	\$147,576	\$207,420
Prop Diameter	82.7" (210.0 cm)	96.0" (243.8 cm)	90" (228.6 cm)
Weight Per Aircraft	290.0 lbs (131.5 kg)	292.4 lbs (132.6 kg)	294.8 lbs. (133.7 kg)
TBO	4500 HR. 72 Months	4000 Hr. 72 Months	4000 Hr. 72 Months
Noise	68.3 dB(A) 	75.0 dB(A) 	82.7 dB(A) 
Vmca Flaps Up	87 KCAS 85 KIAS	94 KCAS 93 KIAS	87 KCAS 85 KIAS
Core Material	Natural Composite	Aluminum	Aluminum
Leading Edge Material	Nickel Cobalt	Aluminum	Aluminum
In Field Repairable	Up to 1"	Up to 0.25"	Up to 0.25"
Quickest In Field Repairs	✓	✗	✗
In Field Blade Replacement	✓	✗	✗
Unlimited Blade Life	✓	✗	✗
No Ground Idle RPM Restrictions	✓	✗	✗

Additional Competitor Info:

Raisbeck's VMCA Limitations

The Raisbeck 4-blade installation requires a V_{MCA} Flaps Up airspeed increase (from 85 KIAS (OEM) to 93 KIAS). Installing the Raisbeck 4-blade will require either removal and routing of your airspeed indicator to an instrument repair shop for re-marking, or installing a new V_{MCA} placard above each pilot's primary display to highlight the increase in V_{MCA} .

King Air 90 Pilot Experiences

Jeff Jacobs | Goodyear, Arizona | Aircraft: King Air 90
Experience: Licensed pilot for 30 years, private pilot



“ I knew when I took the plane in I wanted the BLR Winglets. Rose Aviation installed the Winglet. ... We put the props on and it was the best decision I've made. Our time to altitude has been decreased by about 25%. And the quietness is unbelievable! It will be a big component in aviation and King Airs to come. The whole experience here with Rose Aviation and BLR has been nothing but 100% enjoyable.”



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Winglets & Whisper Prop Ultimate Performance Package

Harness the power of your King Air with the BLR Whisper Prop and Winglets

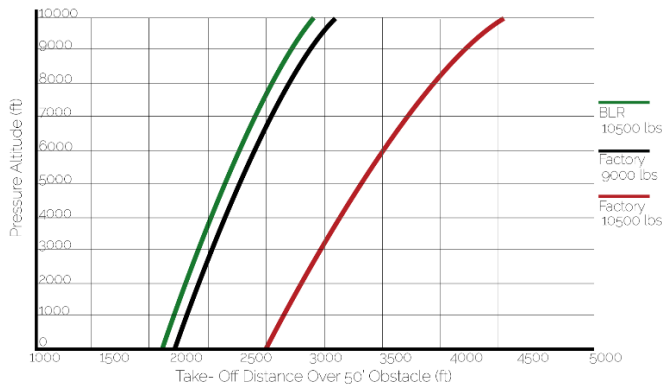
BLR King Air 90 Winglet System with LEDs:

- Increased lift and reduced drag - allowing you to fly faster, go farther, and save fuel
- Includes LED anti-collision lights for improved reliability at no additional cost
- Shorter climb-time to cruise and 13% Increase in one engine inoperative climb rate
- Additional stability allows for improved handling qualities during slow flight
- Extended length de-icing boots are available for additional leading edge ice protection
- Stall speed reduced 9 KCAS (FAA Certified)

BLR King Air 90 Ultimate Performance Package (UPP) AFMS:

- Certified performance charts included in our AFM supplement
- Stall speed improvement from 90 KCAS to 80 KCAS (compared to Raisbeck)
- Flaps up V_{MCA} from 94 KCAS (Raisbeck) to 87 KCAS - significant safety improvement
- Certified take-off distances improved by up to 32%
- Maximum take-off weight (MTOW) increased to 10,500 lbs.

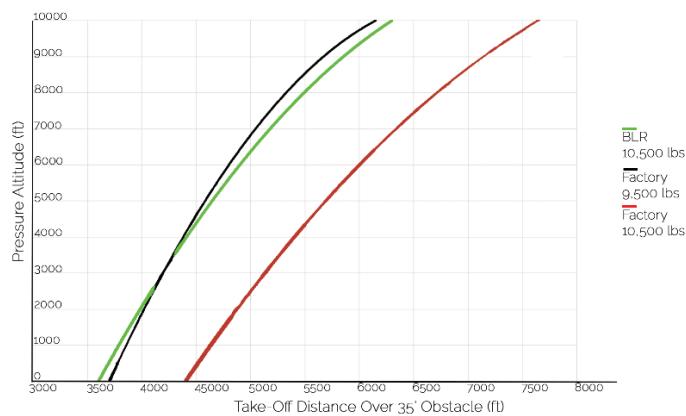
King Air 90 Flaps Up Take-Off Distance, ISA Day



32% Reduction
in Take-Off
Distance

1500 lbs
Increase in
Useful Load

King Air 90 Flaps Up Accelerate-Go Take-Off Distance, ISA Day



20% Reduction
in Take-Off
Distance

1000 lbs
Increase in
Useful Load

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Cost and Contact

2025 List Price for all BLR KA 90 Upgrades

BLR-WP-90	BLR King Air 90 MT Whisper Prop ¹	\$133,400
KA-9W	BLR King Air 90 Winglet System with LED's ²	\$83,200
KDB-90	BLR Extended Length De-Ice Boots King Air 90	\$16,600
KA-9W Package	BLR King Air 90 Winglet System with LED's and De-Ice Boots ²	\$96,900
KA-LED-90	BLR King Air 90 Winglet and Tail LED Upgrade	\$12,900
KA-LED-90T	BLR King Air 90 Tail LED Upgrade	\$2,500
KA-90UPP	BLR King Air 90 Ultimate Performance Package AFMS ³	\$15,000

1. Propellers are delivered unassembled unless noted otherwise by BLR Sales. Assembly quote available upon request.

2. Applicable to King Air C90 serial number LJ-589 and newer, E90 serial number LW-026 and newer.

3. Ultimate Performance Package included at No Charge with purchase of Winglets.

For More Information

Whisper Prop and Winglets are available through a large network of dealers around the world. Visit our website at www.BLRaerospace.com to find the dealer nearest you or contact us directly:

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