

2022 POCKET REFERENCE

RAISBECK PERFORMANCE SYSTEMS



RAISBECK
ENGINEERING

AN ACORN GROWTH COMPANY



OUR MISSION

TO BECOME THE LEADING PROVIDER
OF PERFORMANCE IMPROVEMENT AND
UTILITY ENHANCEMENT MODIFICATIONS
ACROSS MULTIPLE AIRCRAFT PLATFORMS
INCLUDING BOTH BUSINESS AVIATION
AND AIR TRANSPORT AIRCRAFT

DIRECTORY

Overview of Raisbeck Performance Systems	2
Individual Systems for King Air	
Swept Blade Turboprop Propellers	4
Ram Air Recovery System	8
Enhanced Performance Leading Edges	9
Dual Aft Body Strakes	10
High Flotation Gear Doors	11
Crown Wing Lockers	12
System Aircraft Net Weight Changes	13
King Air F90, F90-1 Performance Systems	14
King Air 300, 350, 360 Performance Systems	15
EPIC Performance Packages for King Air	
90 Series	16
100 Series	24
200 Series	26
EPIC Caravan	40
Raisbeck + Blackhawk Performance Upgrades	42
2022 Pricing	44
Authorized Dealers	
United States Dealers	50
International Dealers	52

Raisbeck Performance Systems for the Beechcraft King Air Family

Every Raisbeck Performance System is engineered to enhance a specific aspect of your aircraft. Our Performance Enhancement Systems may be installed individually or combined in a money-saving package to optimize your aircraft's capabilities. Moreover, all Raisbeck Systems are fully compatible with leading aftermarket modifications, including engine upgrades and digital flight displays.

The following Performance Systems are available and ready to ship:

- Swept Blade Propellers for the King Air 200, B200, B200GT, 250, 260, C90 (all), E90, 300, B300, 350 and 360
- Ram Air Recovery System
- Enhanced Performance Leading Edges
- Dual Aft Body Strakes
- High Flotation Gear Doors (for HFG-equipped aircraft)
- Crown Wing Lockers
- Power Propellers for 100, A100, F90, and F90-1



300, B300, 350, 360

- Composite 5-Blade Swept Propellers
- Aluminum 4-Blade Swept Propellers
- Dual Aft Body Strakes
- High Flotation Gear Doors
- Crown Wing Lockers



200, B200, B200GT, 250, 260

- Composite 5-Blade Swept Propellers
- Aluminum 4-Blade Swept Propellers
- Ram Air Recovery System
- Enhanced Performance Leading Edges
- Dual Aft Body Strakes
- High Flotation Gear Doors
- Crown Wing Lockers



C90 (all), E90

- Aluminum 4-Blade Swept Propellers
- Dual Aft Body Strakes
- Crown Wing Lockers
- Increased Gross Weight



100, A100, B100

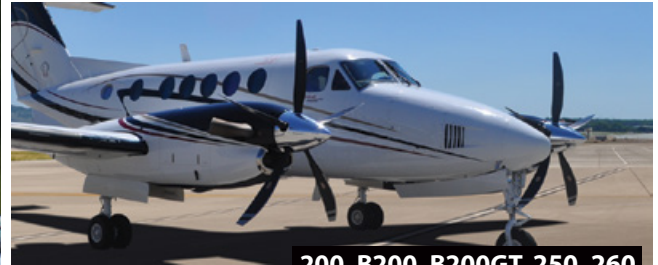
- Power Props (100, A100 only)
- Dual Aft Body Strakes
- High Flotation Gear Doors
- Increased Gross Weight (100, A100 only)



F90, F90-1

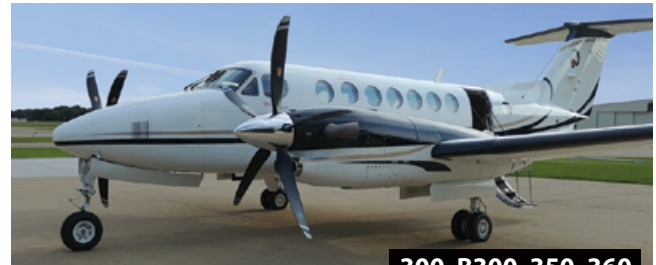
- Power Props
- Dual Aft Body Strakes
- High Flotation Gear Doors

Composite 5-Blade Swept Propellers



200, B200, B200GT, 250, 260

- 96-inch diameter
- Carbon fiber composite construction
- Nickel cobalt leading edges protect against foreign object damage
- On average 48 pounds total weight savings vs. OEM propellers
- 30% noise reduction throughout the aircraft
- 16.5% performance gain in runway acceleration vs. OEM propellers
- 48% better in prop reversing vs. OEM propellers
- Engine-out climb (flaps up) – 25.8% better than OEM 4-blade propeller
- Unlimited blade life
- 6 years/4,000 hours TBO | 3-year/3,000 hour Warranty
Autofeather required



300, B300, 350, 360

- 106-inch diameter
- Carbon fiber composite construction
- Nickel cobalt leading edges protect against foreign object damage
- 54 pounds total weight savings vs. OEM propellers
- Provide more thrust with less noise, resulting in a quieter cabin
- Unlimited blade life
- 6 years/4,000 hours TBO | 3-year/3,000 hour Warranty
Autofeather required

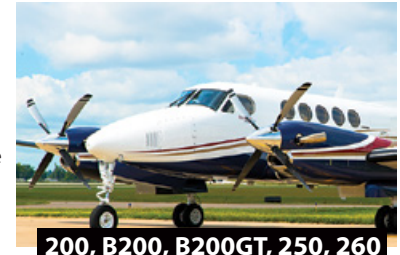
Aluminum 4-Blade Swept Propellers



300, B300, 350, 360

- 105-inch diameter
- High-strength aluminum forgings
- 41.2 pounds total weight savings vs. OEM propellers
- More thrust with less noise
- 4% better runway acceleration; dramatically improves landing deceleration and acceleration-stop
- 6 years/4,000 hours TBO
- 1-year/1,000 hour Warranty
Autofeather required

- 96-inch diameter
- High-strength aluminum forgings
- +.08 pounds total weight increase vs. OEM 4-blade propellers
- More thrust with less noise
- Dramatically improves landing deceleration and acceleration-stop
- 6 years/4,000 hours TBO
- 1-year/1,000 hour Warranty
Autofeather required



200, B200, B200GT, 250, 260

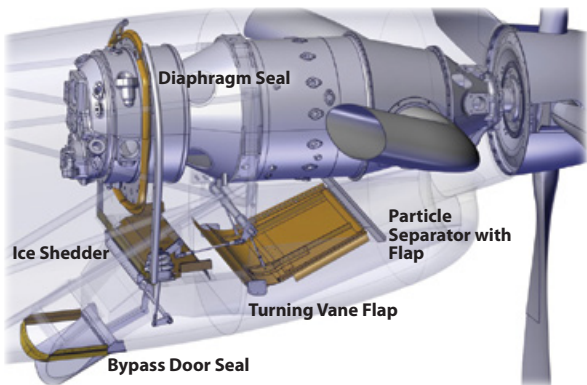
- 96-inch diameter
- High-strength aluminum forgings
- +8.4 pounds total weight increase vs. OEM propellers
- Provide more thrust with less noise, resulting in a quieter cabin
- 6 years/4,000 hours TBO
- 1-year/1,000 hour Warranty
Autofeather required



C90 (all), E90



Ram Air Recovery System (RARS)



Shown with ice vane deployed

Available for all 200 series King Airs

Factory installed on 250/260 models

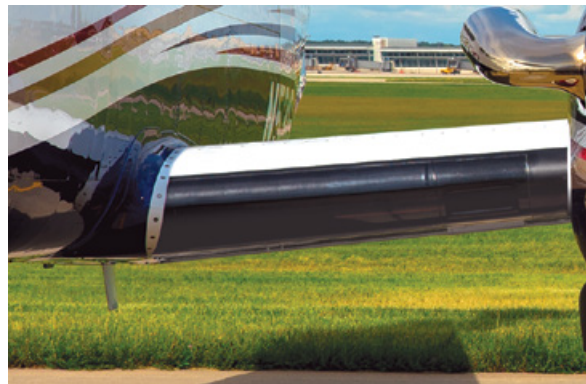
Benefits

- Significantly increase climb and cruise performance in both normal and anti-ice operating modes
- 18°C cooler engine operating ITT at equal torque
- 8% increased available horsepower at altitude gives you a faster airplane
- Measurable decrease in fuel flow at equal engine torque, resulting in increased range
- Reduced torque loss with ice vanes deployed
- Protects against FOD—deployable for all ground, takeoff and landing operations

Technology

- Developed and tested in conjunction with Pratt & Whitney of Canada
- FAA-Certified for ice-vane deployment on the ground and in the air
- Utilizes coanda-effect aerodynamics for efficient airflow vectoring
- Full inlet plenum sealing through unique full-body diaphragms

Enhanced Performance Leading Edges (EPLE)



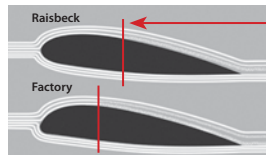
Available for all 200 series King Airs

Benefits

- Cruise speeds and range are increased
- Stall speeds are improved
- Air conditioning and cooling are more efficient
- Outboard wing-fatigue life is enhanced

Technology

- Drag-reducing advanced-technology airfoil
- All-composite construction for strength and weight-savings
- Recessed flush-mounted de-icing boots for minimum drag
- Fully-developed and optimized intercooler inlet for maximum efficiency



With Raisbeck's Leading Edges, airflow remains attached to the wing surface for smooth flaps-up rotation and liftoff, plus measurably improved cruise speeds.

Dual Aft Body Strakes (DABS)



Available for all King Airs

Factory installed on 350/360 and C90GTx models

Benefits

- Passenger ride quality is improved
- Pilot control and handling qualities are enhanced
- Air Minimum Control Speed is reduced
- Decreased drag results in increased climb and cruise performance
- Directional stability is increased, eliminating or raising the yaw-damper-inoperative altitudes; specifically:

Model	Factory	Raisbeck-equipped
350	5,000 ft	19,000 ft
300	11,000 ft	18,500 ft
200/B200/B200GT	17,000 ft	No Limit
F90	17,000 ft	No Limit

Technology

- Classic Beech ventral fin is removed
- The shedding wing/body vortices are captured under the aft fuselage, pressurizing and reducing aft-body drag
- Resulting coanda-effect attaches the aft-body airflow
- Equivalent vertical tail area is increased

High Flotation Gear Doors (HFGD)



Available for all King Airs with high flotation landing gear

Benefits

- Climb and cruise performance of standard-gear King Airs is restored
- Cruise speed is increased 4-10 knots as a function of weight, altitude and temperature
- Wheel wells, tires, and brakes are kept clean and dry; and helps prevent build-up of ice in flight

Technology

- Fully encloses the protruding high-flotation gear, wheels and tires
- Aerodynamically area-ruled to maximize drag reduction
- Constructed of lightweight composites for maximum strength and minimum weight

Crown Wing Locker System (CWLS)



Available for all 90, 200 and 300 King Airls

Benefits

- FAA-certified to carry 600 pounds total cargo in 17 cubic feet of luggage space
- Returns your cabin to your passengers
- Handles skis, snowboards, camping and hunting equipment as well as golf bags and luggage
- Fully certified for FAR Part 135 Operations
- Provided with lock-and-key security

Technology

- Lightweight composite construction allows for infinite-life structural certification
- Aerodynamically area-ruled to minimize drag
- Fully sealed against ingress of water and dirt, keeping interior clean and dry
- Removable in minutes for any airplane maintenance or inspections

System Aircraft Net Weight Changes

300, 350, 360	Weight Change ±
Composite 5-Blade Swept Blade Turbofan Propellers vs OEM	-54.0 lbs
Aluminum 4-Blade Swept Blade Turbofan Propellers vs OEM	-41.2 lbs
Dual Aft Body Strakes	0.0 lbs
High Flotation Gear Doors (350 Only)	23.0 lbs
Crown Wing Locker System	109.0 lbs
200, B200, B200GT, 250, 260	
Composite 5-Blade Swept Turbofan Propellers vs OEM (avg.)	-48.0 lbs
Aluminum 4-Blade Swept Turbofan Propellers	
Replaces Factory-Installed Hartzell 4-Blade Aluminum Propellers	0.8 lbs
Replaces Factory-Installed Hartzell 3-Blade Propellers	27.6 lbs
Replaces McCauley 4-Blade Propellers	6.6 lbs
Ram Air Recovery System	5.0 lbs
Enhanced Performance Leading Edges	0.0 lbs
Dual Aft Body Strakes	0.0 lbs
High Flotation Gear Doors	23.0 lbs
Crown Wing Locker System	109.0 lbs
100, A100, B100	
Quiet Turbofan Propeller System	
Model 100	44.8 lbs
Model A100	-37.2 lbs
Dual Aft Body Strakes	0.0 lbs
High Flotation Gear Doors	
100/A100	9.0 lbs
B100	9.0 lbs
F90, F90-1	
Quiet Turbofan Propeller System	-47.8 lbs
Dual Aft Body Strakes	0.0 lbs
High Flotation Gear Doors	9.0 lbs
C90, C90A, C90B, C90GT, C90GTi, C90GTx, E90	
Swept Blade Turbofan Propellers	
Replaces Factory-Installed Hartzell 3-Blade Propellers	42.4 lbs
Replaces Factory-Installed Hartzell 4-Blade Propellers	8.4 lbs
Replaces McCauley 4-Blade Propeller	2.4 lbs
Dual Aft Body Strakes	2.8 lbs
Crown Wing Locker System	111.0 lbs

F90, F90-1 Performance Systems

300, 350, 360 Performance Systems



F90, F90-1 Systems

300, 350, 360 Systems

93" Power Props (TFPS)

Available Systems



Dual Aft Body Strakes (DABS)



High Flotation Gear Doors (HFGD)
if HFG-equipped

Available Systems



Composite 5-Blade Swept Propellers
(5-SBTP)



Aluminum 4-Blade Swept Propellers
(4-SBTP)



Dual Aft Body Strakes
(DABS)



High Flotation Gear Doors
(HFGD) *if HFG-equipped*



Crown Wing Lockers
(CWLS)

90 Series EPIC Performance Packages



Required EPIC Elements



Swept Blade Turboprop Propellers
(SBTP)



Dual Aft Body Strakes
(DABS)



Crown Wing Lockers
(CWLs) *Optional*

90 Series EPIC Performance Benefits

- Increased takeoff (10,500 lbs) and landing (9,700 lbs) weight
- Improved FAA-Certified takeoff and landing field-length performance
- Greater payload, fuel and range capability from shorter runways and hot-high scenarios
- Higher engine operating ITTs for better climb and cruise performance (LJ-1062 and earlier)
- Quieter operations through reduced climb and cruise RPM

EPIC-Equipped C90GT, C90GTi, C90GTx

FAA-Certified EPIC Performance Data for PT6A-135A engines

Includes C90, C90A and C90B with Blackhawk PT6A-135A Engines

Takeoff Distance (MTOW, Flaps Up)	EPIC-Equipped C90GT, GTi, GTx	Factory C90GTx	Improvements
Takeoff Distance (SL, ISA)	1,980 ft	3,240	1,260 ft less runway
Takeoff Distance (5000 ft, 25° C)	3,370 ft	4,600	1,230 ft less runway
Accelerate-Stop (SL, ISA)	3,690 ft	4,200	510 ft less runway
Accelerate-Go (SL, ISA)	3,110 ft	4,390	1,280 ft less runway

Cruise

Cruise RPM	1,750 RPM	1,900 RPM	150 RPM less
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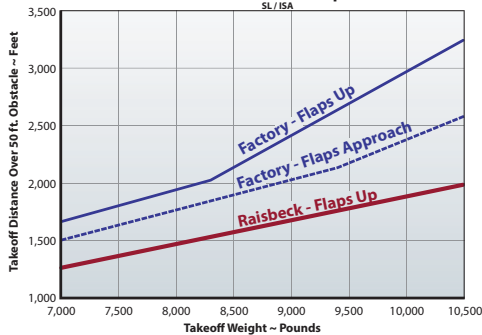
Landing (MLW, SL, ISA, Flaps Down)

Landing Distance w/o Reverse	2,100 ft	2,510	410 ft less runway
Landing Distance with Reverse	1,600 ft	2,350	750 ft less runway
Noise (Part 36 / ICAO)	74.8 dB(A)	76.0 dB(A)	1.2 dB(A) quieter

Other

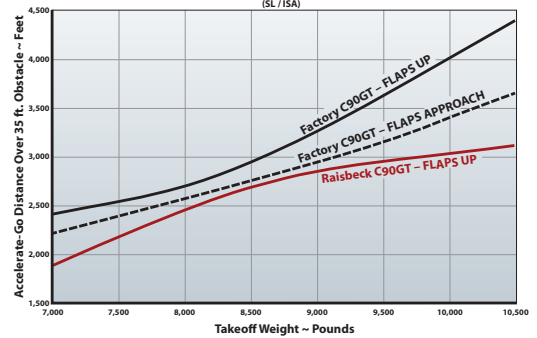
Propellers	96" Raisbeck/ Hartzell Swept 4-Blade	90" Hartzell/ Beech 4-Blade	<ul style="list-style-type: none"> • Exceptional performance • Stunning ramp presence
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Takeoff Distance Comparison



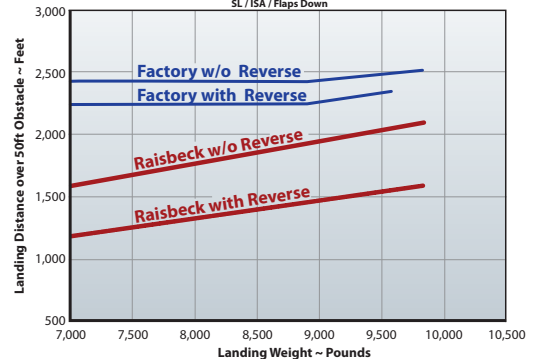
Raisbeck's EPIC Performance Package is a standard factory installation on all new C90GTx models, LJ-2121 and after.

Twin-Engine Accelerate-Go Distance Comparison Raisbeck C90GT-Series EPIC vs Factory C90GT



Safely operate in and out of shorter runways.

Landing Distance Comparison Raisbeck EPIC C90GTx vs Factory C90GTx



EPIC-Equipped C90, C90A, C90B

FAA-Certified EPIC Performance Data

Takeoff	EPIC-Equipped C90, C90A, C90B	Factory C90, C90A, C90B	Improvements
Takeoff Gross Weight	10,500 lbs	9,650-10,100 lbs	400 - 850 more lbs
Takeoff Distance Over 50' @ MTOW	2,190 ft	2,710 ft	22% shorter
Accelerate-Go Distance	3,000 ft	3,650 ft	18% shorter
Accelerate-Stop Distance	3,785 ft	3,600 ft	185 ft longer at 400 lbs heavier
Takeoff Climb Gradient	4.8%	4.8%	Same at 400 lbs heavier

Climb

Single Engine Rate-of-Climb	525 fpm	495 fpm	6% better
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Cruise

Cruise RPM	1,750 RPM	1,900 RPM	150 RPM less
Maximum Cruise ITT	695° C	635° - 695° C	All upgraded to C90A/B

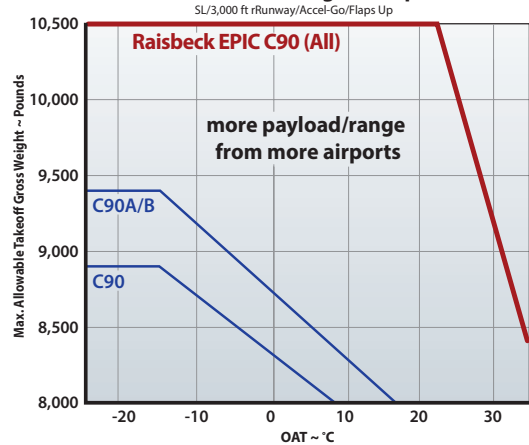
Landing

Landing Distance Over 50 ft (no reverse)	2,160 ft	2,290 ft	6% less runway
Landing Gross Weight	9,700 lbs	9,600 lbs	100 lbs more

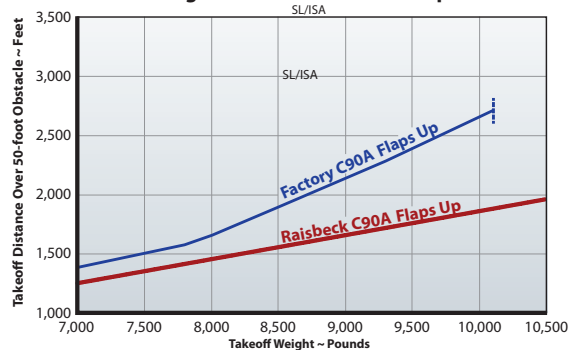
Other

Propellers	96" Raisbeck/ Hartzell Swept 4-Blade	90" Hartzell/ Beech 4-Blade	<ul style="list-style-type: none"> Exceptional performance Stunning ramp presence
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Allowable Takeoff Weight Comparison



Twin-Engine Takeoff Distance Comparison

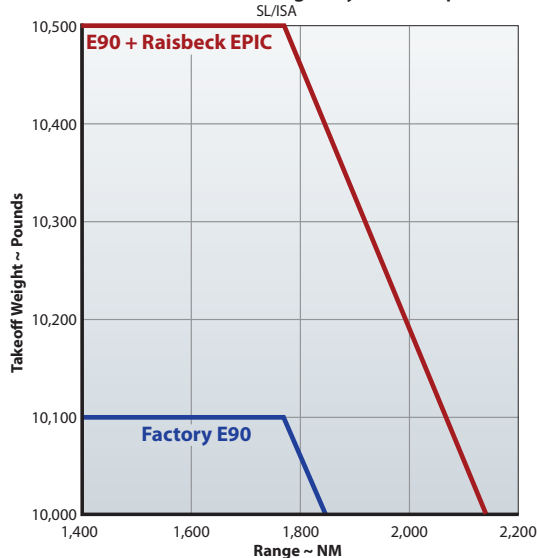


EPIC-Equipped E90

FAA-Certified E90 EPIC Performance Data

Includes aircraft with Blackhawk engine upgrades

E90 Series EPIC Takeoff Range/Payload Comparison



Benefits

- 400 lbs MTOW increase to 10,500 lbs
- Increased payload
- Increased range
- Measurably quieter cockpit, cabin and exterior
- Reduced takeoff and cruise RPM with no performance loss; specifically:
 - 1,900 takeoff RPM (vs. 2,200 Factory)
 - 1,750 cruise RPM (vs. 1,900 Factory)



SEVEN POINTS of Airplane Productivity

Every Raisbeck Engineering product has been put to a critical test. Only those which passed have made it into production.

THE TEST

Each System must make a positive, if small, contribution to every one of these seven areas of productivity, and must make a major contribution to at least one.

- **Payload** – *How much can you carry?*
- **Range** – *How far can you carry it?*
- **Block Speed** – *How fast can you get it there?*
- **Airport Availability** – *Where can you get it into and out of?*
- **Cost** – *What are the effects on your direct and indirect operating costs? Resale value?*
- **Ramp Appeal** – *Is it aesthetically pleasing to you?*
- **Market Acceptance** – *Is it popular with you, your pilot, your mechanic?*

100 Series EPIC Performance Packages



EPIC-Equipped A100 Performance

King Air A100	EPIC-Equipped A100	Factory A100	Improvements
Max. Takeoff Gross Weight	12,008 lbs	11,500 lbs	508 more lbs
Typical Empty Weight	7,247 lbs	7,280 lbs	33 less lbs
Typical Useful Load	4,761 lbs	4,220 lbs	541 more lbs
Zero Fuel Weight	10,000 lbs	9,600 lbs	400 more lbs
Maximum Zero Fuel Load	2,753 lbs	2,320 lbs	433 more lbs
Takeoff RPM	2,000	2,200	200 RPM less
Climb Horsepower	680	620	60 more HP
Cruise RPM	1,750	1,900	Quieter cockpit & cabin
Minimum Ground RPM	1,100	1,250	150 RPM less

EPIC-Equipped 100 Performance

King Air 100	EPIC-Equipped 100	Factory 100	Improvements
Max. Takeoff Gross Weight	11,846 lbs	10,600 lbs	1,246 more lbs
Typical Useful Load	5,017 lbs	3,820 lbs	1,197 more lbs
Maximum Zero Fuel Load	3,171 lbs	2,820 lbs	351 more lbs
Maximum Landing Weight	11,210 lbs	10,600 lbs	610 more lbs
Takeoff RPM	2,000	2,200	200 RPM less
Climb Horsepower	680	620	60 more HP
Cruise RPM	1,750	1,900	Quieter cockpit & cabin

Required EPIC Elements



Power Props (TFPS)



Dual Aft Body Strakes (DABS)



High Flotation Gear Doors*
(HFGD) if HFG-equipped

* Please contact our Raisbeck Sales Team for availability of 100/A100 series HFGD.

200 Series EPIC Performance Packages



200 Series EPIC Performance Benefits

- Certified to operate safely in and out of over 3,000 additional airports in the U.S.A. alone
- Additional FAA certification to FAR Part 25 commercial airline standards, including Balanced Field Lengths
- Shorter takeoff, higher climb rates and higher cruise altitudes, increased cruise speeds and range, and shorter landing distances
- Your ride, as either pilot or passenger, is measurably quieter, smoother and more stable

Required EPIC Elements



Ram Air Recovery System (RARS) factory installed on 250s



Dual Aft Body Strakes (DABS)



Enhanced Performance Leading Edges (EPL)



Composite 5-Blade Swept Props (5-SBTP)



Aluminum 4-Blade Swept Props (4-SBTP)



High Flotation Gear Doors (HFGD) if HFG-equipped



Crown Wing Lockers (CWLS) *Optional*

250 EPIC PLATINUM

FAA-certified EPIC Platinum Performance Data with PT6A-52 Engines & High Flotation Gear¹

Takeoff (Flaps Up, 12,500 lbs, SL/ISA)	EPIC Platinum 250	Factory 250	Improvements
Distance Over 50 ft	2,210 ft	3,270 ft	1,060 ft less runway
Part 25 Balanced Field Length (BFL)	3,990 ft	Not Certified	Airline Safety Standards
Accelerate-Stop Distance	3,250 ft	3,380 ft	130 ft less runway
Accelerate-Go Distance	3,450 ft	6,700 ft	3,250 ft less runway

¹ High Flotation Gear only affects Balanced Field Length and Landing Distance

Climb (12,500 lbs, SL/ISA)

Two Engine Rate-of-Climb	2,520 ft/min	2,370 ft/min	150 ft/min more
Time-to-Climb to 28,000 ft	14 minutes	17 minutes	3 minutes quicker
Time-to-Climb to 33,000 ft	18 minutes	23 minutes	5 minutes quicker

Cruise (11,000 lbs, ISA)

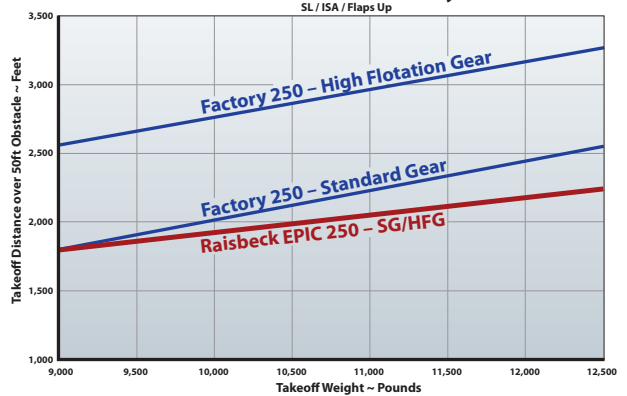
Max. Cruise Speed, 28,000 ft	314 ktas ²	300 ktas	14 knots faster
Max. Cruise Speed, 33,000 ft	303 ktas	290 ktas	13 knots faster
Max. Cruise Prop RPM	1,600 - 1,800	1,700 - 1,800	Quieter cockpit & cabin

² Includes effect of winglets

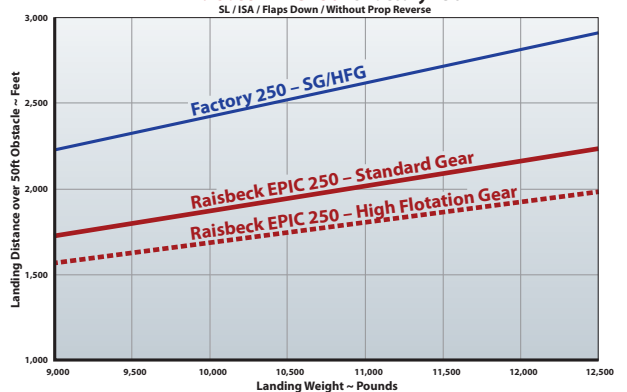
Landing (Flaps Down, 11,000 lbs, SL/ISA)

Approach Speed (V _{REF})	90 kts	99 kts	9 kts slower approach
Landing Distance Over 50 ft (without prop reverse)	1,810 ft	2,590 ft	780 ft less runway
Propellers	96" Raisbeck/ Hartzell Swept 4-Blade	93" Hartzell/ Beech 4-Blade	<ul style="list-style-type: none"> • Exceptional performance • Stunning ramp presence

Twin-Engine Takeoff Distance Comparison Raisbeck EPIC 250 vs Factory 250



Landing Distance Comparison Raisbeck EPIC 250 vs Factory 250



B200GT EPIC PLATINUM

FAA-certified EPIC Platinum Performance Data with PT6A-52 Engines

Takeoff (Flaps Up, 12,500 lbs, SL/ISA)	EPIC Platinum B200GT	Factory B200GT	Improvements
Distance Over 50 ft	2,210 ft	3,300 ft	1,090 ft less runway
Part 25 Balanced Field Length (BFL)	3,990 ft	Not Certified	Airline Safety Standards
Accelerate-Stop Distance	3,250 ft	3,380 ft	130 ft less runway
Accelerate-Go Distance	3,450 ft	6,370 ft	2,920 ft less runway

Climb (12,500 lbs, SL/ISA)

Two Engine Rate-of-Climb	2,510 ft/min	2,420 ft/min	90 ft/min more
Time-to-Climb to 28,000 ft	14 minutes	16 minutes	2 minutes quicker
Time-to-Climb to 33,000 ft	18 minutes	22 minutes	4 minutes quicker

Cruise (11,000 lbs, ISA)

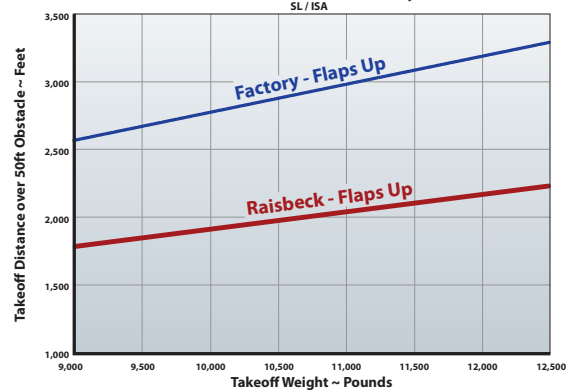
Max. Cruise Speed, 28,000 ft	318 ktas	307 ktas	11 knots faster
Max. Cruise Speed, 33,000 ft	307 ktas	296 ktas	11 knots faster
Max. Cruise Prop RPM	1,600 - 1,800	1,700 - 1,800	Quieter cockpit & cabin

Landing (Flaps Down, 11,000 lbs, SL/ISA)

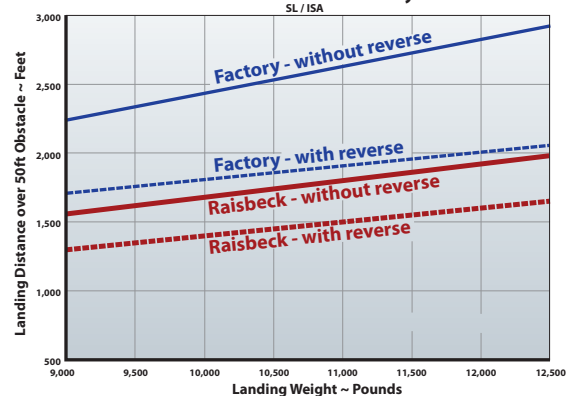
Approach Speed (V_{REF})	90 kts	99 kts	9 kts slower approach
Landing Distance Over 50 ft (without prop reverse)	1,810 ft	2,500 ft	690 ft less runway

Propellers	96" Raisbeck/ Hartzell Swept 4-Blade	93" Hartzell/ Beech 4-Blade	<ul style="list-style-type: none"> • Exceptional performance • Stunning ramp presence
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Twin-Engine Takeoff Distance Comparison Raisbeck EPIC B200GT vs Factory B200GT



Landing Distance Comparison Raisbeck EPIC B200GT vs Factory B200GT



B200GT EPIC GOLD

FAA-certified EPIC Gold Performance Data with PT6A-52 Engines With Factory Hartzell 4-Blade Aluminum Propellers

Takeoff (Flaps Up, 12,500 lbs, SL/ISA)	EPIC Gold B200GT	Factory B200GT	Improvements
Distance Over 50 ft	2,825 ft	3,300 ft	475 ft less runway
Part 25 Balanced Field Length (BFL)	3,990 ft	Not Certified	Airline Safety Standards
Accelerate-Stop Distance	3,990 ft ¹	3,380 ft	610 ft more runway
Accelerate-Go Distance	3,990 ft ¹	6,360 ft	2,370 ft less runway

¹ Same as BFL at Airline Safety Standards. Raisbeck EPIC Gold AFMS does not include Accel-Stop/Go Distances.

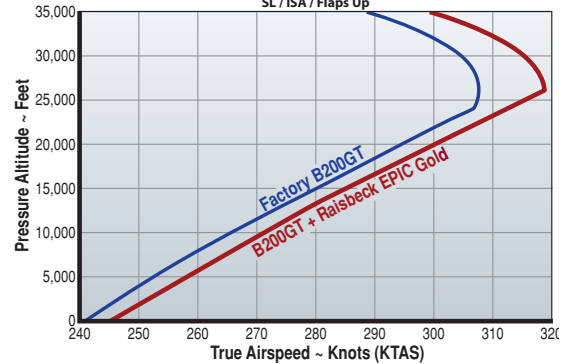
Cruise (11,000 lbs, ISA)

Max. Cruise Speed, 28,000 ft	318 ktas	307 ktas	11 knots faster
Max. Cruise Speed, 33,000 ft	308 ktas	297 ktas	11 knots faster

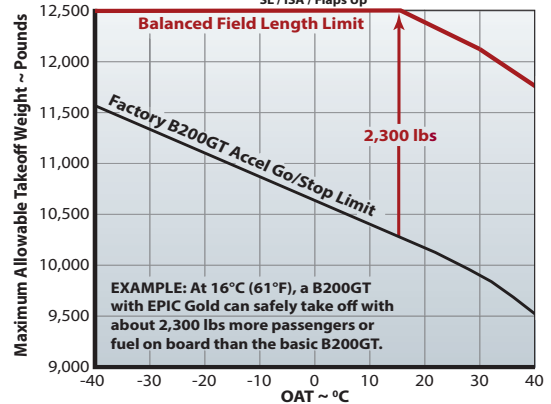
Landing (Flaps Down, 11,000 lbs, SL/ISA)

Approach Speed (V_{REF})	90 kts	99 kts	9 kts slower approach
Landing Distance Over 50 ft (without prop reverse)	2,025 ft	2,590 ft	565 ft less runway

Cruise Speed Comparison
Raisbeck EPIC B200GT vs Factory B200GT
SL / ISA / Flaps Up



Allowable Takeoff Weight Comparison
Raisbeck EPIC B200GT vs Factory B200GT
SL / ISA / Flaps Up



B200 EPIC PLATINUM

FAA-Certified EPIC Performance Data with PT6A-42 Engines

Takeoff (Flaps Up, 12,500 lbs, SL/ISA)	EPIC Platinum B200	Factory B200	Improvements
Distance Over 50 ft	2,210 ft	3,300 ft	1,090 ft less runway
Part 25 Balanced Field Length (BFL)	3,990 ft	Not Certified	Airline Safety Standards
Accelerate-Stop Distance	3,250 ft	3,380 ft	130 ft less runway
Accelerate-Go Distance	3,450 ft	6,370 ft	2,920 ft less runway

Climb (12,500 lbs, SL/ISA)

Two Engine Rate-of-Climb	2,510 ft/min	2,420 ft/min	90 ft/min more
Time-to-Climb to 28,000 ft	15 minutes	19 minutes	4 minutes quicker
Time-to-Climb to 33,000 ft	22 minutes	29 minutes	7 minutes quicker

Cruise (11,000 lbs, ISA)

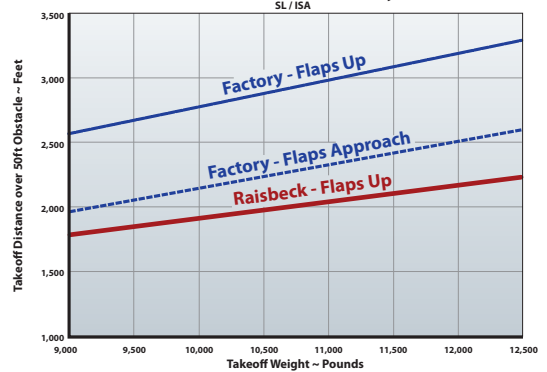
Max. Cruise Speed, 28,000 ft	295 ktas	285 ktas	10 knots faster
Max. Cruise Speed, 33,000 ft	286 ktas	273 ktas	13 knots faster
Max. Cruise Prop RPM	1,600 - 1,800	1,800	Quieter cockpit & cabin

Landing (Flaps Down 11,000 lbs, SL/ISA)

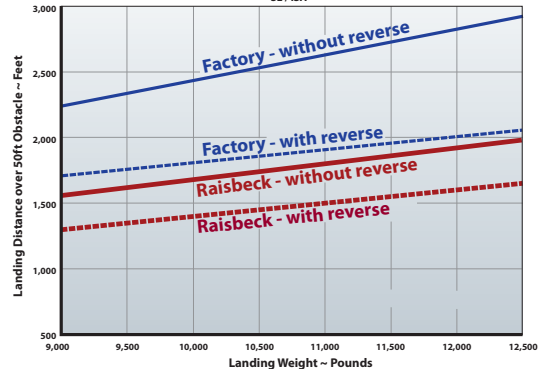
Approach Speed (V_{REF})	90 kts	99 kts	9 kts slower approach
Landing Distance Over 50 ft (without prop reverse)	1,810 ft	2,500 ft	690 ft less runway

Propellers	96" Raisbeck/ Hartzell Swept 4-Blade	93" Hartzell/ Beech 4-Blade	<ul style="list-style-type: none"> • Exceptional performance • Stunning ramp presence
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Twin-Engine Takeoff Distance Comparison Raisbeck EPIC B200 vs Factory B200



Landing Distance Comparison Raisbeck EPIC B200 vs Factory B200



B200 EPIC GOLD

FAA-Certified EPIC Performance Data with PT6A-42 Engines

With Factory Hartzell 4-Blade Aluminum Propellers

Takeoff (Flaps Up, 12,500 lbs, SL/ISA)	EPIC Gold B200	Factory B200	Improvements
Distance Over 50 ft	2,825 ft	3,300 ft	475 ft less runway
Part 25 Balanced Field Length (BFL)	3,990 ft	Not Certified	Airline Safety Standards
Accelerate-Stop Distance	3,990 ft ¹	3,380 ft	610 ft more runway
Accelerate-Go Distance	3,990 ft ¹	6,360 ft	2,370 ft less runway

¹ Same as BFL at Airline Safety Standards. Raisbeck EPIC Gold AFMS does not include Accel-Stop/Go Distances.

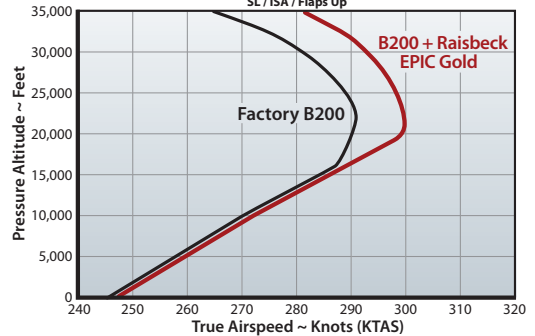
Cruise (11,000 lbs, ISA)

Max. Cruise Speed, 28,000 ft	295 ktas	285 ktas	10 knots faster
Max. Cruise Speed, 33,000 ft	286 ktas	273 ktas	13 knots faster

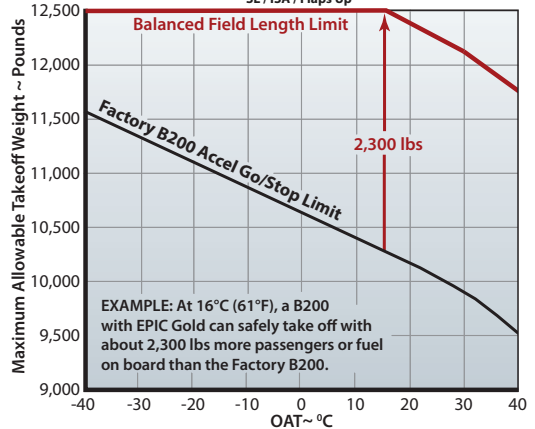
Landing (Flaps Down, 11,000 lbs, SL/ISA)

Approach Speed (V _{REF})	90 kts	99 kts	9 kts slower approach
Landing Distance Over 50 ft (without prop reverse)	2,025 ft	2,590 ft	565 ft less runway

Cruise Speed Comparison
Raisbeck EPIC B200 vs Factory B200
SL / ISA / Flaps Up



Allowable Takeoff Weight Comparison
Raisbeck EPIC B200 vs Factory B200
SL / ISA / Flaps Up



200 EPIC PLATINUM

FAA-Certified EPIC Performance Data with PT6A-41 Engines

Takeoff (Flaps Up, 12,500 lbs, SL/ISA)	EPIC Platinum 200	Factory 200	Improvements
Distance Over 50 ft	2,210 ft	3,300 ft	1,090 ft less runway
Part 25 Balanced Field Length (BFL)	3,990 ft	Not Certified	Airline Safety Standards
Accelerate-Stop Distance	3,250 ft	3,380 ft	130 ft less runway
Accelerate-Go Distance	3,450 ft	6,370 ft	2,920 ft less runway

Climb (12,500 lbs, SL/ISA)

Two Engine Rate-of-Climb	2,510 ft/min	2,420 ft/min	90 ft/min more
Time-to-Climb to 28,000 ft	17 minutes	21 minutes	4 minutes quicker
Time-to-Climb to 33,000 ft	25 minutes	37 minutes	12 minutes quicker

Cruise (11,000 lbs, ISA)

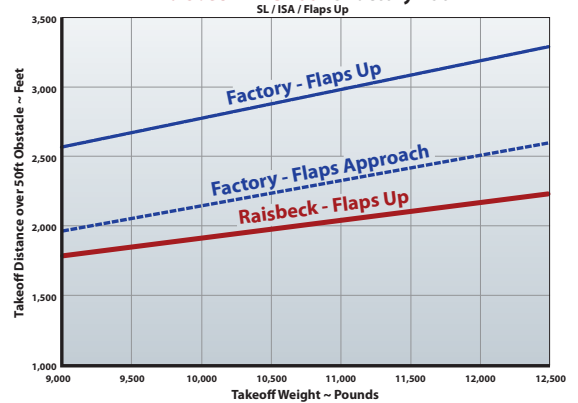
Max. Cruise Speed, 28,000 ft	283 ktas	271 ktas	12 knots faster
Max. Cruise Speed, 33,000 ft	270 ktas	256 ktas	14 knots faster
Max. Cruise Prop RPM	1,600 - 1,800	1,900	Quieter cockpit & cabin

Landing (Flaps Down, 11,000 lbs, SL/ISA)

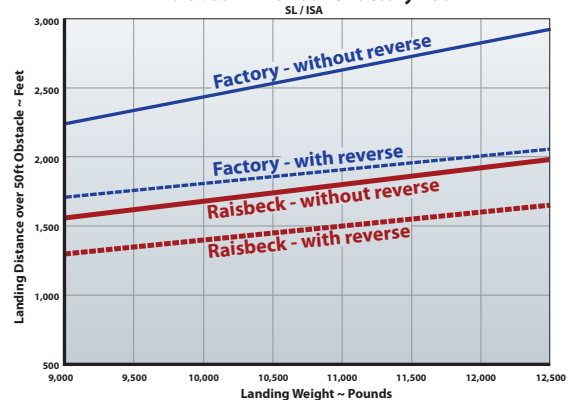
Approach Speed (V_{REF})	90 kts	99 kts	9 kts slower approach
Landing Distance Over 50 ft (without prop reverse)	1,810 ft	2,500 ft	690 ft less runway

Propellers	96" Raisbeck/ Hartzell Swept 4-Blade	93" Hartzell/ Beech 4-Blade	<ul style="list-style-type: none"> • Exceptional performance • Stunning ramp presence
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Twin-Engine Takeoff Distance Comparison Raisbeck EPIC 200 vs Factory 200

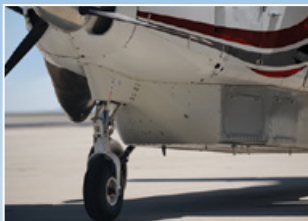


Landing Distance Comparison Raisbeck EPIC 200 vs Factory 200





EPIC Caravan Elements



Forward Cargo Pod Fairing



Dual Aft Body Strakes

Cruise Faster Or Reduce Fuel Fows—Now the Choice is Yours!

EPIC Caravan reduces drag in all flight phases while offering the option to add 4+ knots cruise speed at the same power setting, or reduce fuel flows and lower ITTs—thereby reducing engine wear and maintenance, and making operations more cost-effective and environmentally friendly. In addition, the Dual Aft Body Strakes enhance pilot control and handling qualities; and the Forward Cargo Pod Fairing eliminates the need for a cargo pod de-ice boot, further reducing maintenance costs for the life of the aircraft.

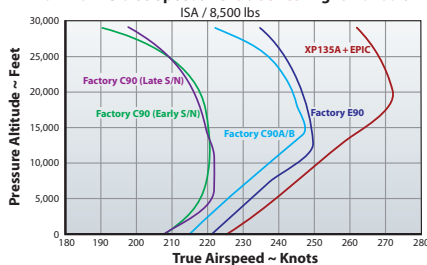
Raisbeck + Blackhawk Performance Upgrades



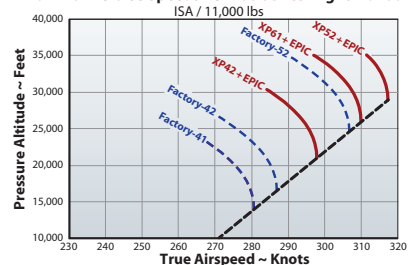
Considering an upgrade? Transform your 90 or 200 Series King Air and Blackhawk Engine+ Upgrades. All Raisbeck Performance Systems XP135A Engine+ Upgrades. It's the ultimate power pairing. For more

enjoy optimum performance with Raisbeck's EPIC Performance Packages are fully compatible and certified with Blackhawk XP52, XP61 and information about Blackhawk engines, contact sales@blackhawk.com

Raisbeck EPIC + Blackhawk vs Factory Comparison
Maximum Cruise Speeds Per 90 Series Flight Manuals



Raisbeck EPIC + Blackhawk vs Factory Comparison
Maximum Cruise Speeds Per 200 Series Flight Manuals



2022 King Air Individual System Prices

300, B300, 350, 360	Price	Avg. Install
5-Blade Composite Swept Blade Propellers (5-SBTP)	\$ 154,862	37 hrs
4-Blade Aluminum Swept Blade Propellers (4-SBTP)	\$ 110,847	35 hrs
Dual Aft Body Strakes (DABS)	\$ 23,559	35 hrs
High Flotation Gear Doors (HFGD) 350/360 Only	\$ 51,473	80 hrs
Crown Wing Locker System (CWLS)	\$ 69,618	115 hrs

200, B200, B200GT, 250, 260	Price	Avg. Install
5-Blade Composite Swept Blade Propellers (5-SBTP)	\$ 153,619	37 hrs
4-Blade Aluminum Swept Blade Propellers (4-SBTP)	\$ 110,847	35 hrs
Ram Air Recovery System (RARS)	\$ 51,918	60 hrs
Enhanced Performance Leading Edges (EPL)	\$ 39,676	80 hrs
Dual Aft Body Strakes (DABS)	\$ 23,559	35 hrs
High Flotation Gear Doors (HFGD)	\$ 51,473	80 hrs
Crown Wing Locker System (CWLS)	\$ 69,618	115 hrs

100, A100, B100	Price	Avg. Install
Power Props (TFPS) – Special Order Only	\$ 99,609	75 hrs
Dual Aft Body Strakes (DABS)	\$ 23,559	35 hrs
High Flotation Gear Doors (HFGD)*	\$ 51,473	80 hrs

* Please contact our Raisbeck Sales Team for availability of 100/A100/B100 series HFGD.

2022 King Air Individual System Prices

F90, F90-1	Price	Avg. Install
Power Props (TFPS) – Special Order Only	\$ 99,609	45 hrs
Dual Aft Body Strakes (DABS)	\$ 23,559	35 hrs
High Flotation Gear Doors (HFGD)	\$ 51,473	80 hrs

A90, B90, C90, C90GT, C90GTi, C90GTx, E90	Price	Avg. Install
Swept Blade Turbofan Propellers (SBTP)	\$ 110,847	35 hrs
Dual Aft Body Strakes (DABS)	\$ 23,559	35 hrs
Crown Wing Locker System (CWLS)	\$ 69,618	115 hrs

Pricing Notes

- 1) Cost of shipping, installation and paint are not included in the basic pricing.
- 2) Installation times are estimates based on dealer feedback.
- 3) Time estimates do not include painting or avionics updating where necessary.
- 4) Customer retains old propellers for resale or dealer credit.

Notes

- 1) If your aircraft is equipped with high flotation gear, Raisbeck High Flotation Gear Doors must be installed to be eligible for EPIC Package pricing, and are required by the FAA-Approved EPIC Flight Manual Supplement.
- 2) Raisbeck Power Props (TFPS) are still available for fleet operators and those who wish to stay with the older design.

Did you know?

Since our first installation in 1982, thousands of Raisbeck Systems have been installed on more than 6,400 King Airs, accumulating many millions of flight hours in service. Raisbeck Engineering has never been issued an Airworthiness Directive or FAA-Mandatory Service Bulletin.

2022 King Air EPIC Package Prices

Raisbeck Performance Systems are individually engineered to enhance specific operational areas of your King Air. We've packaged these Systems in particular combinations to take advantage of the positive synergistic effect they produce on the overall performance of each King Air model. We call this strategic integration "EPIC" for its impressive performance and money-saving package pricing.

SBTP Raisbeck/Hartzell Swept Blade Props
TFPS Raisbeck/Hartzell Quiet Power Props
RARS Ram Air Recovery System
EPLE Enhanced Performance Leading Edges

DABS Dual Aft Body Strakes
HFGD High Flotation Gear Doors
CWLS Crown Wing Locker System

		SBTP	RARS	EPLE	DABS	HFGD	CWLS	Customer Price	Package Savings	Avg. Install Time
EPIC Platinum w/ Composite 5-Blade Swept Propellers 200, B200, B200GT, 250, 260	EPIC Platinum	•	•	•	•			\$ 239,206	\$ 29,565	210 hrs
	EPIC Platinum + CWLS	•	•	•	•		•	\$ 297,782	\$ 40,607	325 hrs
	EPIC Platinum + HFGD	•	•	•	•	•		\$ 281,814	\$ 38,430	290 hrs
	EPIC Platinum + CWLS + HFGD	•	•	•	•	•	•	\$ 331,382	\$ 58,480	405 hrs
EPIC Platinum w/ Aluminum 4-Blade Swept Propellers 200, B200, B200GT, 250, 260	EPIC Platinum	•	•	•	•			\$ 201,140	\$ 24,860	210 hrs
	EPIC Platinum + CWLS	•	•	•	•		•	\$ 260,144	\$ 35,474	325 hrs
	EPIC Platinum + HFGD	•	•	•	•	•		\$ 244,175	\$ 33,297	290 hrs
	EPIC Platinum + CWLS + HFGD	•	•	•	•	•	•	\$ 295,027	\$ 52,063	405 hrs
EPIC Gold B200, B200GT (retains OEM Props)	EPIC Gold		•	•	•			\$ 104,788	\$ 10,364	175 hrs
	EPIC Gold + CWLS		•	•	•		•	\$ 166,293	\$ 18,477	290 hrs
	EPIC Gold + HFGD		•	•	•	•		\$ 149,962	\$ 16,663	255 hrs
	EPIC Gold + CWLS + HFGD		•	•	•	•	•	\$ 207,894	\$ 28,349	370 hrs
C90 Series/ E90 EPIC w/ Swept Props	EPIC		•		•			\$ 118,949	\$ 15,457	70 hrs
	EPIC + CWLS		•		•		•	\$ 179,541	\$ 24,483	185 hrs
100, A100 EPIC *TFPS are special order	EPIC		TFPS		•			\$ 112,083	\$ 11,085	110 hrs
	EPIC + HFGD**		TFPS		•	•		\$ 158,923	\$ 15,718	190 hrs

- EPIC Gold applies only to aircraft equipped with Hartzell HC-E4N-3G/D9390SK-1R propellers 4-blade aluminum propeller) or previously installed Raisbeck TFPS/SBTP. EPIC Gold does not
- King Air aircraft with previous Raisbeck Systems and looking to complete an EPIC package additional systems needed

(factory installed at BB-1509 and after, BY-1 and after, or earlier aircraft fitted with this Hartzell apply to King Air 250 aircraft.

should refer to Multiple System Combination Pricing to receive the best price and value for

** Please contact our Raisbeck Sales Team for availability of 100/A100 series HFGD.

2022 King Air Combination Pricing

Multiple System Combination Pricing

For customers purchasing Multiple Systems, the following discounted pricing per System applies for combined packages purchased and installed at the same time. Individual System pricing applies to all single System purchases.

Multiple System Pricing can also apply for customers upgrading to new Swept Blade Propellers from Raisbeck's Quiet Turbofan Propellers and those customers adding Crown Wing Lockers to an aircraft that is fully Raisbeck EPIC-equipped.

System	Customer Price	Customer Savings
Composite 5-Blade Swept Propellers (300 Series)	\$ 147,119	\$ 7,743
Composite 5-Blade Swept Propellers (200 Series)	\$ 145,938	\$ 7,681
Aluminum 4-Blade Swept Blade Propellers (300, 200 and 90 Series)	\$ 105,305	\$ 5,542
Quiet Turbofan Propellers (90, 100, 200, F90 Series) – Special Order Only	\$ 94,629	\$ 4,980
Ram Air Recovery System (200 Series)	\$ 47,245	\$ 4,673
Enhanced Performance Leading Edges (200 Series)	\$ 36,105	\$ 3,571
Dual Aft Body Strakes	\$ 21,438	\$ 2,121
High Flotation Gear Doors (F90/200/300 Series)	\$ 46,840	\$ 4,633
Crown Wing Lockers	\$ 63,353	\$ 6,265

2022 EPIC Caravan Pricing

Cessna Caravan 208B	Price	Avg. Install
EPIC Caravan System	Contact Sales for Pricing	60-65 hrs

2022 Beechcraft Aftermarket Products

Product	Part No.	Aircraft Applicability	Install Time
Flow Through Anti-Ice Kit	BI-1001-1	King Air 200, B200	10-15 hrs
Fuel Pan	BI-2802-101	King Air 200, B200, B200GT, 300, B300; Beech 1900, Bonanza B36CT, Baron 58P & 58TC	2 hrs
Fuel Pan Assembly	BI-2802-1	King Air 200, B200, B200GT, 300, B300; Beech 1900, Bonanza B36CT, Baron 58P & 58TC	2 hrs
Floorboard Panel (replaces Beechcraft 101-420060-1)	18BI-53-121	King Air 200, B200, B200GT	2 hrs
Floorboard Panel (replaces Beechcraft 101-420061-1)	18BI-53-123	King Air 200, B200, B200GT	2 hrs
Floorboard Panel (replaces Beechcraft 50-420014-327)	18BI-53-125	King Air 200, B200, C90A, C90GT, 65-A90, A90, B90, E90, F90, 100, A100, B100, 99 Airliner	2 hrs
Floorboard Panel (replaces Beechcraft 100-430057)	18BI-53-127	King Air 200, B200, 100, A100, B100	2 hrs
Floorboard Panel (replaces Beechcraft 100-430058)	18BI-53-129	King Air 200, B200, 100, A100, B100	2 hrs
Floorboard Panel (replaces Beechcraft 50-420014-183)	19BI-53-131	King Air 65-A90, B90, 99 Airliner	2 hrs
Floorboard Panel (replaces Beechcraft 50-420014-321)	19BI-53-133	King Air 65-A90, B90, 99 Airliner	2 hrs
Floorboard Panel (replaces Beechcraft 50-420014-395)	19BI-53-135	King Air C90, E90	2 hrs
Floorboard Panel (replaces Beechcraft 50-420014-401)	19BI-53-137	King Air C90, E90	2 hrs
Floorboard Panel (replaces Beechcraft 50-420014-471)	19BI-53-139	King Air C90	2 hrs
Floorboard Panel (replaces Beechcraft 50-440012-553, 50-440012-555)	18BI-53-145	King Air 200, B200, B200GT, 300, B300, 65-A90, A90, B90, C90A, C90GT, C90GTi, E90, F90, 99 Airliner <i>50-440012-555 does not apply to 200, B200</i>	6-8 hrs
Floorboard Panel (replaces Beechcraft 50-440012-655)	18BI-53-145	King Air 200, B200, B200GT, 300, B300, 65-A90, C90A, C90GT, C90GTi, E90, F90, 99 Airliner	6-8 hrs

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Blackhawk Aerospace Solutions

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Northstar Aviation Services
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Advancetech Aircraft Maintenance
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Mather Aviation – Van Nuys
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– Greensboro
Signature TECHNICAir
– Winston-Salem
Textron Aviation – Greensboro

North Dakota

Fargo Jet Center

Ohio

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& Defense Systems
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Meta Special Aerospace
Tulsaair Beechcraft, Inc.

Oregon

Atlantic Aviation
Hillsboro Aviation

South Carolina

Eagle Aviation
Stevens Aerospace
& Defense Systems
Venture Aviation

Tennessee

Stevens Aerospace
& Defense Systems
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Aerospace Instrument Support, Inc.
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Air King Aviation Services
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Eric's Leading Edge

Virginia

Dynamic Aviation

Wisconsin

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Fast Air

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AMK Aviation

Field Aviation Sales, Ltd.

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TAM (Aviação Executiva)

Chile

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