

The Seven Points of Airplane Productivity

Every product ever envisioned at Raisbeck Engineering 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.

1. **PAYLOAD** – *How much can you carry?*
2. **RANGE** – *How far can you carry it?*
3. **BLOCK SPEED** – *How fast can you get it there?*
4. **AIRPORT AVAILABILITY** – *Where can you get it into and out of?*
5. **COST** – *What are the effects on your direct and indirect operating costs? Resale value?*
6. **RAMP APPEAL** – *Is it aesthetically pleasing to you?*
7. **MARKET ACCEPTANCE** – *Is it popular with you, your pilot, your mechanic?*

As you review our systems for your Beechcraft King Air, put each one to the Productivity Test yourself. By doing this, you will bring objectivity to your purchasing decisions.... ***It just makes good business sense.***

Did you know?

With thousands of Systems installed on more than 4,200 King Airs since 1982, accumulating many millions of flight hours in service, Raisbeck Engineering has never been issued an Airworthiness Directive or FAA-Mandatory Service Bulletin.



Raisbeck Performance Systems Overview



250/B200GT/B200/200 Series

- Swept Blade Turboprop Propellers
- Ram Air Recovery System
- Enhanced Performance Leading Edges
- Dual Aft Body Strakes
- High Flotation Gear Doors (if HFG-equipped)
- Crown Wing Lockers



C90GTx/C90GTi/C90GT/C90/E90/90 Series

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



350ER/350i/350/300 Series

- Swept Blade Turboprop Propellers (350 Series only)
- Dual Aft Body Strakes
- High Flotation Gear Doors (if HFG-equipped)
- Crown Wing Lockers



100/A100/B100 Series

- Power Props (100/A100 only)
- Dual Aft Body Strakes
- High Flotation Gear Doors (if HFG-equipped)
- Nacelle Wing Lockers
- Increased Gross Weight (100/A100 only)



F90 Series

- Power Props
- Dual Aft Body Strakes
- High Flotation Gear Doors (if HFG-equipped)
- Nacelle Wing Lockers (F90 only; contact the Raisbeck Sales Team for availability.)

EPIC Performance Packages Overview

Each Raisbeck Performance System is designed to improve specific areas of performance.

Our EPIC Performance Systems are packaged to take advantage of the synergistic effects of the products and are certified with FAA-Approved Airplane Flight Manual Supplements.

Documented improvements include increased allowable gross weights, shorter takeoff and landing distances, better climb and initial cruise altitudes, faster and more fuel-efficient cruise, and enhanced all-weather engine performance.

You can also benefit from significant cost savings and more efficient installations through EPIC packaging, EPIC Completion and Combination Incentive Pricing (see pages 44-47).



EPIC Performance Package for the 90 Series:

- Swept Blade Turboprop Propellers
- Dual Aft Body Strakes
- Increased Gross Weight
- Optional Crown Wing Lockers

EPIC Performance Package for the 200 Series:

- Swept Blade Turboprop Propellers
- Enhanced Performance Leading Edges
- Ram Air Recovery
- Dual Aft Body Strakes
- High Flotation Gear Doors (if HFG-equipped)
- Optional Crown Wing Lockers

Systems for the 350/300 Series:

- Swept Blade Turboprop Propellers (350 only)
- Dual Aft Body Strakes
- High Flotation Gear Doors (if HFG-equipped)
- Crown Wing Lockers

200-SERIES EPIC COMPLETE PERFORMANCE PACKAGE

200-SERIES EPIC PACKAGE

FOR 250/B200GT/B200/200



200-SERIES EPIC PERFORMANCE PACKAGE BENEFITS

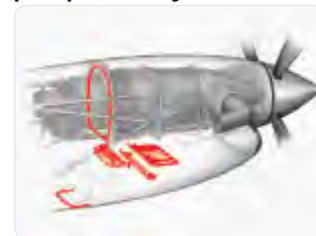
- FAA-Certified to operate safely into and out of over 3,000 additional airports in the United States alone
- Additional FAA certification to FAR Part 25 commercial airline standards, including Balanced Field Lengths
- Shorter takeoff, higher climb rates and higher cruise altitudes, increased cruise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

REQUIRED EPIC ELEMENTS

Swept Blade Turboprop Propellers
[SBTP]



Ram Air Recovery System
[RARS] OEM on King Air 250s



Enhanced Performance Leading
Edges [EPLE]



Dual Aft Body Strakes
[DABS]



High Flotation Gear Doors
[HFGD] *If HFG-equipped*



OPTIONAL Crown Wing Lockers
[CWLS]



(See pages 36-42 for technical details on individual Systems)

200-SERIES EPIC PACKAGE

200-SERIES EPIC COMPLETE PERFORMANCE PACKAGE

250 EPIC PLATINUM*

FAA-CERTIFIED EPIC PLATINUM PERFORMANCE DATA (PT6A-52 ENGINES – HIGH FLOTATION GEAR)

TAKEOFF (FLAPS UP, 12,500 lbs, SL/ISA)	250 + Raisbeck EPIC PLATINUM	Basic King Air 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

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 ¹	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

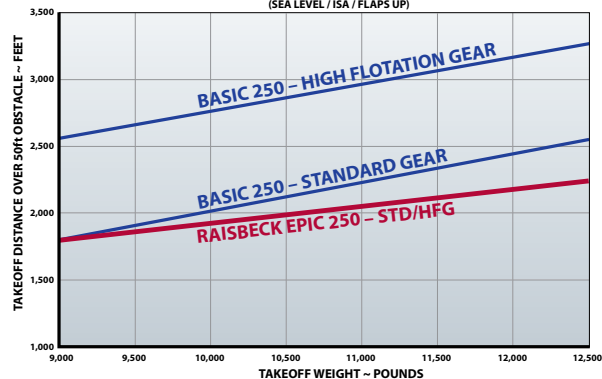
¹ includes effect of winglets

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

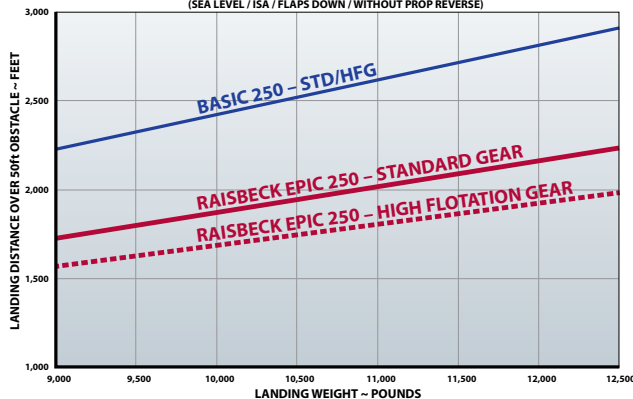
PROPELLERS	96" Raisbeck/ Hartzell Swept 4-Blade	93" Hartzell/ Beech 4-Blade	<ul style="list-style-type: none"> • Exceptional performance • Stunning ramp presence
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* EPIC Platinum Package includes Swept Blade Turbofan Propellers

TWIN-ENGINE TAKEOFF DISTANCE COMPARISON RAISBECK EPIC 250 vs BASIC 250 (SEA LEVEL / ISA / FLAPS UP)



LANDING DISTANCE COMPARISON RAISBECK EPIC 250 vs BASIC 250 (SEA LEVEL / ISA / FLAPS DOWN / WITHOUT PROP REVERSE)



200-SERIES EPIC COMPLETE PERFORMANCE PACKAGE

B200GT EPIC PLATINUM*

FAA-CERTIFIED EPIC PERFORMANCE DATA (PT6A -52 ENGINES)

TAKEOFF (FLAPS UP, 12,500 lbs, SL/ISA)	B200GT+ Raisbeck EPIC PLATINUM	Basic King Air 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

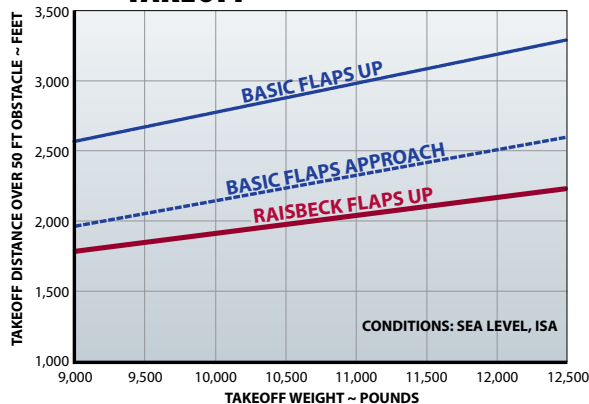
CRUISE (11,000 lbs, ISA)			
Max. Cruise Speed, 28,000 ft	318 ktas	307 ktas	11 knots faster
Max. Cruise Speed, 33,000 ft	307 ktas	296 ktas	11 knots faster
Max. Cruise Prop RPM	1,600 - 1,800	1,700 - 1,800	Quieter cockpit & cabin

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

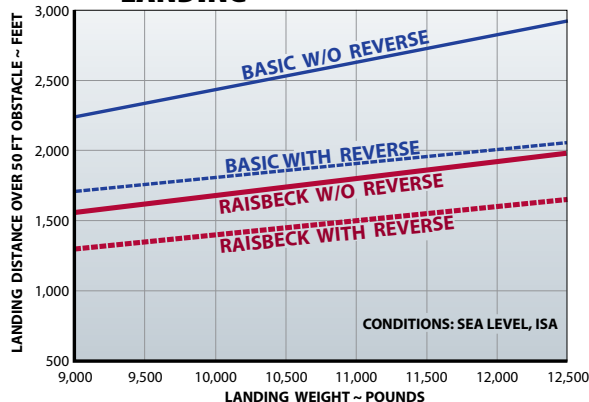
PROPELLERS	96" Raisbeck/ Hartzell Swept 4-Blade	93" Hartzell/ Beech 4-Blade	<ul style="list-style-type: none"> • Exceptional performance • Stunning ramp presence

* EPIC Platinum Package includes Swept Blade Turbofan Propellers

TAKEOFF TAKEOFF DISTANCE COMPARISON



LANDING LANDING DISTANCE COMPARISON



200-SERIES EPIC COMPLETE PERFORMANCE PACKAGE

B200GT EPIC GOLD

FAA-CERTIFIED EPIC PERFORMANCE DATA (PT6A -52 ENGINES)

With OEM Hartzell 4-Blade Aluminum Propellers

TAKEOFF (FLAPS UP, 12,500 lbs, SL/ISA)	B200GT + Raisbeck EPIC GOLD	Basic King Air 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 ft¹	3,380 ft	610 ft more runway
Accelerate-Go Distance	3,990 ft¹	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

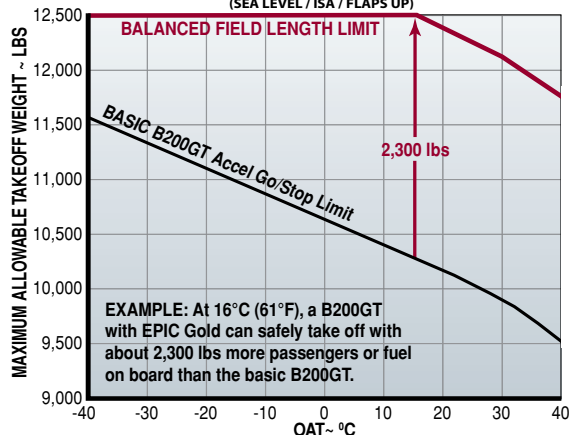
LANDING (FLAPS DOWN, 11,000 lbs, SL/ISA)

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 BASIC B200GT
(SEA LEVEL / ISA / FLAPS UP)



ALLOWABLE TAKEOFF WEIGHT COMPARISON
RAISBECK EPIC B200GT vs BASIC B200GT
(SEA LEVEL / ISA / FLAPS UP)



200-SERIES EPIC COMPLETE PERFORMANCE PACKAGE

200-SERIES EPIC PACKAGE

200-SERIES EPIC PACKAGE

B200 EPIC PLATINUM*

FAA-CERTIFIED EPIC PERFORMANCE DATA (PT6A-42 ENGINES)

TAKEOFF (FLAPS UP, 12,500 lbs, SL/ISA)	B200 + Raisbeck EPIC PLATINUM	Basic King Air 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

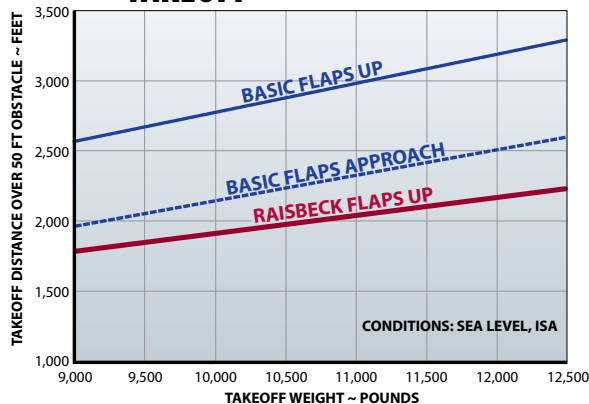
CRUISE (11,000 lbs, ISA)			
Max. Cruise Speed, 28,000 ft	295 ktas	285 ktas	10 knots faster
Max. Cruise Speed, 33,000 ft	286 ktas	273 ktas	13 knots faster
Max. Cruise Prop RPM	1,600 - 1,800	1,800	Quieter cockpit & cabin

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

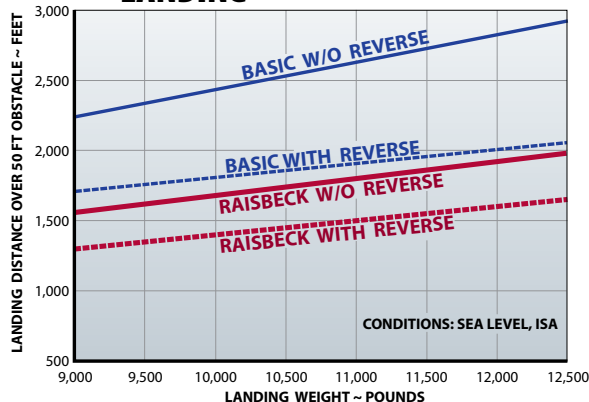
PROPELLERS	96" Raisbeck/ Hartzell Swept 4-Blade	93" Hartzell/ Beech 4-Blade	<ul style="list-style-type: none"> • Exceptional performance • Stunning ramp presence
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* EPIC Platinum Package includes Swept Blade Turbofan Propellers

TAKEOFF TAKEOFF DISTANCE COMPARISON



LANDING LANDING DISTANCE COMPARISON



200-SERIES EPIC COMPLETE PERFORMANCE PACKAGE

B200 EPIC GOLD

FAA-CERTIFIED EPIC PERFORMANCE DATA (PT6A-42 ENGINES)

With OEM Hartzell 4-Blade Aluminum Propellers

TAKEOFF (FLAPS UP, 12,500 lbs, SL/ISA)	B200+ Raisbeck EPIC GOLD	Basic King Air 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 ft¹	3,380 ft	610 ft more runway
Accelerate-Go Distance	3,990 ft¹	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.

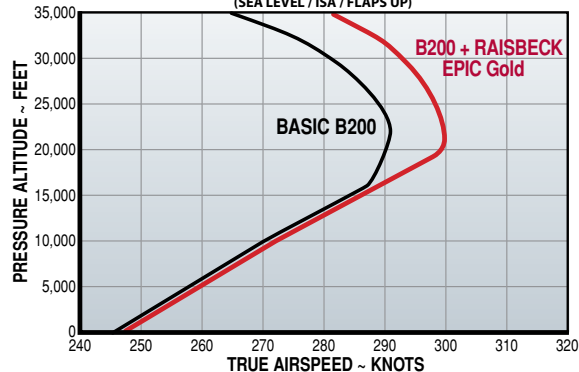
CRUISE (11,000 lbs, ISA)

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

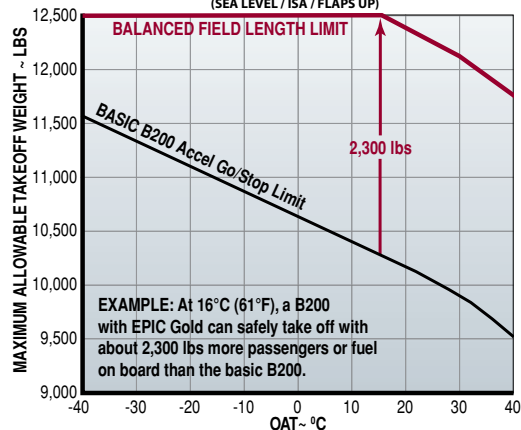
LANDING (FLAPS DOWN, 11,000 lbs, SL/ISA)

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 BASIC B200
(SEA LEVEL / ISA / FLAPS UP)



ALLOWABLE TAKEOFF WEIGHT COMPARISON
RAISBECK EPIC B200 vs BASIC B200
(SEA LEVEL / ISA / FLAPS UP)



200-SERIES EPIC COMPLETE PERFORMANCE PACKAGE

200 EPIC PLATINUM*

FAA-CERTIFIED EPIC PERFORMANCE DATA (PT6A-41 ENGINES)

TAKEOFF (FLAPS UP, 12,500 lbs, SL/ISA)	200 + Raisbeck EPIC PLATINUM	Basic King Air 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

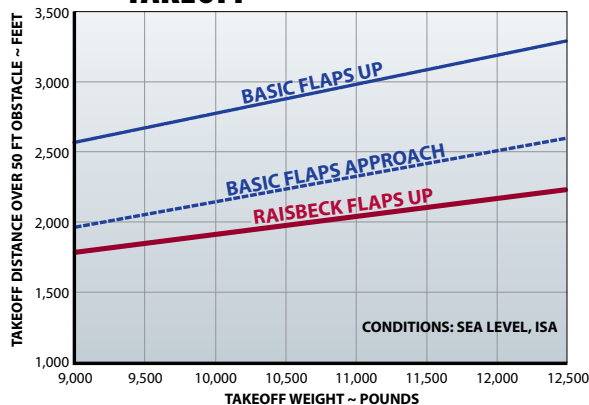
LANDING (FLAPS DOWN, 11,000 lbs, SL/ISA)

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

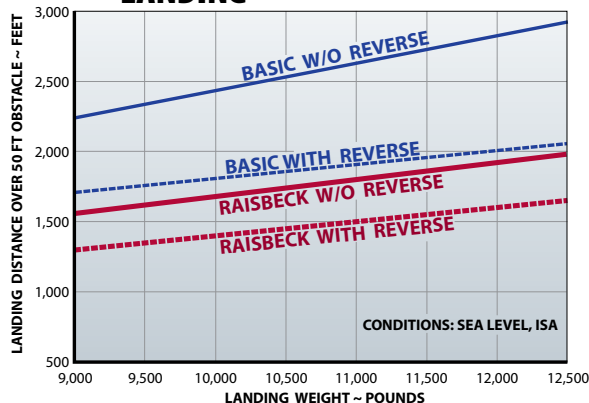
PROPELLERS	96" Raisbeck/ Hartzell Swept 4-Blade	93" Hartzell/ Beech 4-Blade	<ul style="list-style-type: none"> • Exceptional performance • Stunning ramp presence
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* EPIC Platinum Package includes Swept Blade Turbofan Propellers

TAKEOFF TAKEOFF DISTANCE COMPARISON



LANDING LANDING DISTANCE COMPARISON



90-SERIES EPIC COMPLETE PERFORMANCE PACKAGE

FOR C90GTx/C90B/C90A/C90/E90

90-SERIES EPIC PACKAGE



90-SERIES EPIC COMPLETE PERFORMANCE BENEFITS

- Increased takeoff (10,500 lbs) and landing (9,700 lbs) weight (*provided at no additional charge with every 90-Series EPIC Package*)
- Improved FAA-Certified takeoff and landing field-length performance
- Greater payload/fuel/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

REQUIRED EPIC ELEMENTS

Swept Blade Turbofan Propellers

[SBTP]



Dual Aft Body Strakes

[DABS]



Gross Weight Increase

[GWI] *Intrinsic benefit of EPIC Package**



OPTIONAL Crown Wing Lockers

[CWLS]



* *Provided at no additional charge with every 90-Series EPIC Package*

(See pages 36-42 for technical details on individual Systems)

90-SERIES EPIC PACKAGE

C90-SERIES EPIC COMPLETE PERFORMANCE PACKAGE

EPIC-EQUIPPED C90GTx /GTi/GT PERFORMANCE*

STANDARD ON ALL NEW C90GTx
LJ-2121 and subs.

INCLUDES BLACKHAWK C90B / C90A / C90
WITH PT6A-135A ENGINES

90-SERIES EPIC PACKAGE

FAA-CERTIFIED EPIC PERFORMANCE DATA (PT6A-135A ENGINES)

TAKEOFF PERFORMANCE (MTOW, Flaps UP)	C90GTx/GTi/GT + Raisbeck EPIC	Basic C90GTx	IMPROVEMENT
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 PERFORMANCE (MLW, SL, ISA, Flaps DOWN)

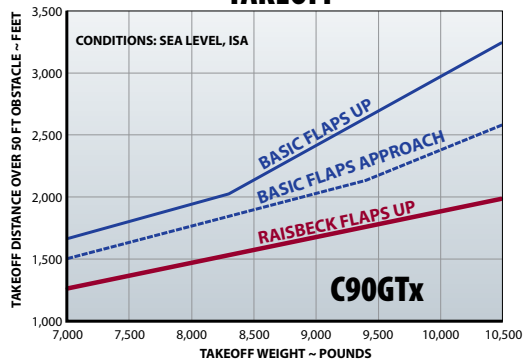
Landing Distance w/o Reverse	2,100 ft	2,510	410 ft less runway
Landing Distance with Reverse	1,600 ft	2,350	750 ft less runway
Noise (Part 36 / ICAO)	74.8 dB(A)	76.0 dB(A)	1.2 dB(A) quieter
Propeller Diameter	96"	90"	6" larger diameter

OTHER

Propeller	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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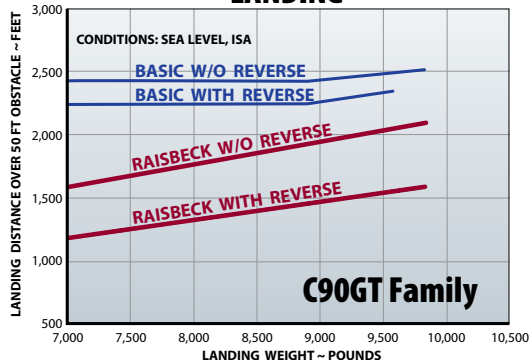
* EPIC Package includes Swept Blade Turbofan Propellers and Dual Aft Body Strakes

TAKEOFF



Greatly increased number of smaller airports are now safely available to use.

LANDING



90-SERIES EPIC COMPLETE PERFORMANCE PACKAGE

EPIC-EQUIPPED C90B/ C90A/C90 PERFORMANCE*

FAA-CERTIFIED EPIC PERFORMANCE DATA

TAKEOFF	C90 (ALL) + Raisbeck EPIC	Basic C90 (ALL)	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

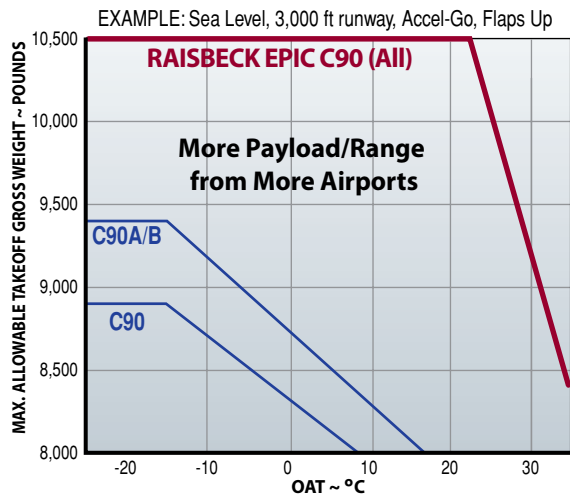
LANDING

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

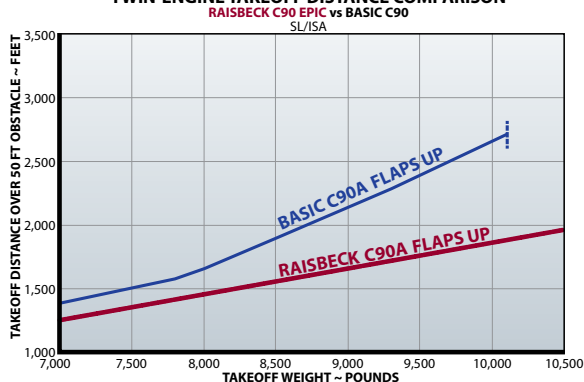
OTHER

Propeller	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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* EPIC Package includes Swept Blade Turbofan Propellers and Dual Aft Body Strakes



TWIN-ENGINE TAKEOFF DISTANCE COMPARISON





"We equipped our C90 with Raisbeck's EPIC Package with Swept Blade Propellers and Crown Wing Lockers. The swept design and extra diameter provide more thrust while keeping noise down—and they look good on the ramp, too. It's better than a new C90GTx and costs \$2 million less—all for an airplane that's faster, uses less runway and looks sexy, too."

Jeff Gorman
Owner/Operator of LJ-1387
CEO, Gorman-Rupp Company



"Raisbeck performance systems on the B200s are a must for quieter flight and better climb performance. Every one of our 15 King Airs are equipped with Raisbeck Performance Systems or EPIC Packages. We have flown our fleet over 25,000 hours in the past four years alone, and that adds up to some pretty good savings! I am a firm believer in all the Raisbeck products and look forward to new ones in the future."

Gary Standel
President
West Coast Aviation Services



"We flew our new C90GTx about 200 hours with stock props before installing the Raisbeck Swept Blade Propellers. The difference is remarkable. The Swept Props are definitely quieter, the takeoff roll shorter, and cruising at altitude at 1750 RPM, it's noticeably quieter and smoother. And the airplane definitely looks better. The Raisbeck Props rock!"

Brett Miller
Owner/Pilot of LJ-2099
CEO, eat.drink.sleep.



"My compliments to Raisbeck Engineering for recertifying the 200-series' takeoff performance and publishing FAA-approved data that permits FAR Part 25 levels of safety. When this is mated with the aerodynamic improvements of the full Raisbeck EPIC upgrade package, the results are significantly reduced runway requirements and more takeoff safety. I am a big fan of Raisbeck's EPIC improvement package."

Tom Clements
Pilot and Author of *The King Air Book*
Trainer/Mentor, The King Air Academy



"Raisbeck's EPIC Platinum on a great aircraft like my King Air B200GT enables it to outperform the factory model in takeoff distance, climb, speed and range. This is important when you operate from remote mountainous regions of Northern Scotland! With skis and fishing poles nestled in those wonderful Raisbeck Wing Lockers, carrying five passengers plus their luggage, is effortless."

Jimmy Jack
Businessman & Pilot
B200GT BY-94



"Individual kits make a difference, but when you put everything together [in an EPIC], it just transforms the aircraft, making it much more modern and appealing to [our charter] customers. We can fly at least 1000 nm with a full load, and the aircraft is much more stable at slower speeds."

Chris Mace
Operations Manager
Sterling Aviation

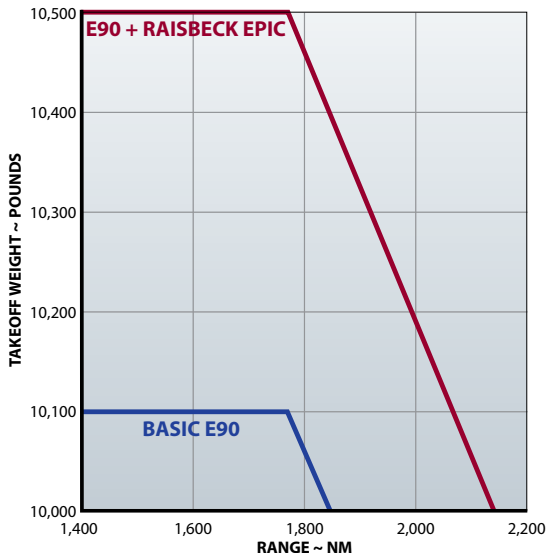
E90 EPIC PACKAGE

EPIC-EQUIPPED E90 PERFORMANCE*

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 OEM)
 - 1,750 cruise RPM (vs. 1,900 OEM)

* EPIC Package includes Swept Blade Turbofan Propellers and Dual Aft Body Strakes

BLACKHAWK ENGINE UPGRADES WITH RAISBECK'S EPIC PERFORMANCE PACKAGE

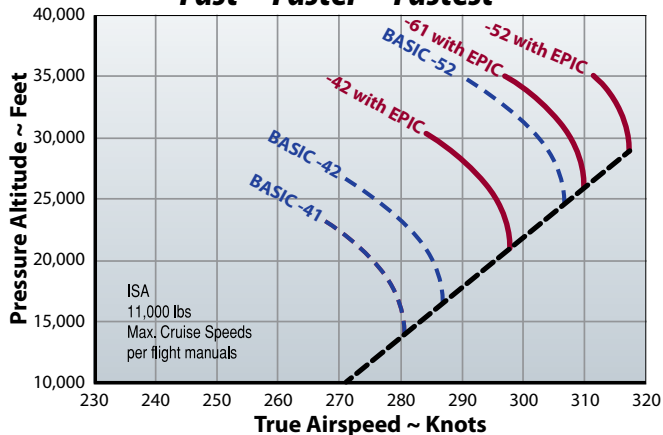
All Raisbeck Performance Systems, 200-Series EPIC Performance Packages and C90/E90 EPIC Performance Packages are fully compatible and certified with all Pratt & Whitney engine upgrades. These engine upgrades are currently available from Blackhawk Modifications, Inc.



EPIC +

200-SERIES EPIC + ENGINE UPGRADE PERFORMANCE

Fast – Faster – Fastest



350/300 PERFORMANCE SYSTEMS

FOR 350ER/350i/350/300

350 / 300 SYSTEMS



300-SERIES PERFORMANCE SYSTEMS

Swept Blade Turbofan Propellers

[SBTP] *Not yet available for 300*



Dual Aft Body Strakes

[DABS]



High Flotation Gear Doors

[HFGD] *If HFG-equipped*



OPTIONAL Crown Wing Lockers

[CWLS]



350 / 300 SYSTEMS



All Raisbeck Performance Packages and Individual Systems are available as post-production options for all new production models.

(See pages 36-42 for technical details on individual Systems)

100-SERIES EPIC COMPLETE PERFORMANCE PACKAGE

FOR A100/100



100-SERIES EPIC BENEFITS

- Increased takeoff and landing gross weight
- Higher Max Zero Fuel Weight
- Greater payload/range and higher cruising altitude
- Quieter operation through reduced takeoff, climb and cruise propeller RPM
- Elimination of propeller secondary low-pitch stop (A100)

REQUIRED EPIC ELEMENTS

Power Props
[TFPS]



Dual Aft Body Strakes
[DABS]



High Flotation Gear Doors*
[HFGD] *If HFG-equipped*



OPTIONAL Nacelle Wing Lockers*
[NWLS]



* Please contact the Raisbeck Sales Team for availability of 100/A100 series HFGD and NWLS.

SAVE \$22,000 when either Nacelle Wing Lockers or High Flotation Gear Doors are purchased with an EPIC Performance Package. Save \$38,000 when both Systems are purchased with an EPIC Performance Package.

(See pages 36-42 for technical details on individual Systems)

EPIC-Equipped A100 Performance

King Air A100	A100 + Raisbeck EPIC	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	100 + Raisbeck EPIC	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

93" Power Props
[TFPS]



Dual Aft Body Strakes
[DABS]



High Flotation Gear Doors
[HFGD] *If HFG-equipped*



Nacelle Wing Locker System
[NWLs] *F90 only**



* Please contact the Raisbeck Sales Team for availability of F90 Nacelle Wing Lockers.



SAVE \$22,000 when either Nacelle Wing Lockers or High Flotation Gear Doors are purchased with an EPIC Performance Package. **Save \$38,000** when both Systems are purchased with an EPIC Performance Package.

(See pages 36-42 for technical details on individual Systems)

SEPARATELY AVAILABLE SYSTEMS

PERFORMANCE SYSTEMS TECHNICAL DETAILS



- Swept Blade Turbofan Propellers for 350, 200, C90 and E90 Series
- Ram Air Recovery System
- Enhanced Performance Leading Edges
- Dual Aft Body Strakes
- High Flotation Gear Doors (for HFG-equipped aircraft)
- Crown Wing Lockers
- Power Props for A100/100 and F90/F90-1*

Every Raisbeck system is individually FAA-certified, and may be installed as a stand-alone or added to your partially Raisbeck-equipped King Air.

You may choose the building-block concept and add these systems one or more at a time as your budget and aircraft availability allows.

Swept Blade Turbofan Propellers [SBTP]

Standard on all new C90Gtx, LJ-2121 & Subs.



PERFORMANCE SYSTEMS TECHNICAL DETAILS

AVAILABLE FOR THESE KING AIR MODELS:

- 350 Series
- All 200-Series
- All C90-Series
- E90

BENEFITS

- Swept-wing technology enables larger propeller diameter for more thrust without increasing noise or vibration
- Quiet and virtually vibrationless operation from takeoff to touchdown
- Certified around the world to meet the most stringent regulations and noise requirements
- Inherently improved performance in all phases of flight
- Made of affordable aluminum
- Trouble-free operation between 6-year, 4,000 hour overhauls

TECHNOLOGY

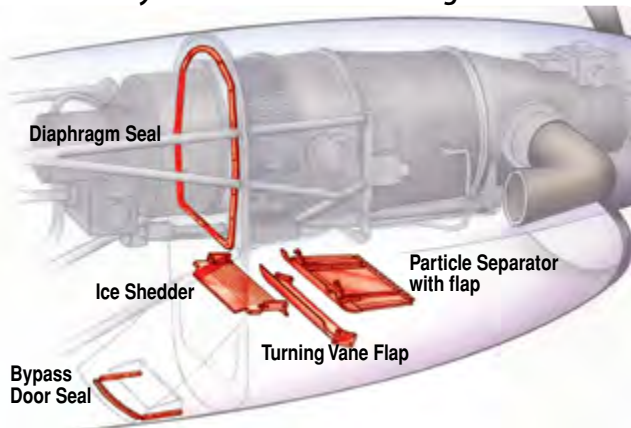
- Unique combination of aerodynamic technology and computer-aided manufacture
- Lightweight aluminum hubs and blades
- Oversized hydraulic power piston for lock-in propeller synchrophasing
- Grease-lubricated hubs to preclude oil leaks
- Manufactured by Hartzell Propeller, Inc.

PREREQUISITE: Autofeather required on all models

* Straight-Blade Raisbeck Power Props [TFPS] are still available for fleet operators and those who wish to stay with the older design. Call Raisbeck for pricing and availability.

Ram Air Recovery System [RARS]

Factory-installed on all new King Air 250s



AVAILABLE FOR THESE KING AIR MODELS:

- All 200-Series

BENEFITS

- Significantly increase climb and cruise performance in both normal and anti-ice operating modes
- 18° 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, Ltd
- 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 THESE KING AIR MODELS:

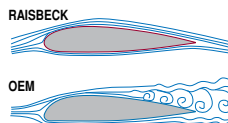
- All 200-Series

BENEFITS

- Cruise speeds and range are increased
- Stall speeds and characteristics are improved
- Air conditioning and cooling are more efficient
- Outboard wing fatigue life is inherently 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 lift off, plus measurably improved cruise speeds.

Dual Aft Body Strakes [DABS]

Factory-installed on all new King Air 350s and C90GTxs



AVAILABLE FOR ALL KING AIR MODELS

BENEFITS

- Passenger ride quality is improved
- Pilot control and handling qualities are enhanced
- Air Minimum Control Speed is inherently reduced
- Decreased drag results in increased climb and cruise performance
- Directional stability is increased, eliminating (200 & F90) or raising (300, 350) 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 THESE KING AIR MODELS (with HFG):

- F90 • A100 • 100 • B100 • 250 • B200GT
- B200 • 200 • 350 • 350ER • 350i

BENEFITS

- Climb and cruise performance of standard-gear King Airs is restored
- Your cruise speed is increased 8 to 12 knots depending on altitude
- Wheel wells, tires, and brakes are kept clean, warm and dry

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]

Standard on all new 350s, FL-402 & Subs.



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
- And they are OEM-installed on all new King Air 350s

TECHNOLOGY

- Lightweight composite construction allows for infinite-life structural certification
- Aerodynamically area-ruled to minimize drag
- Fully self-contained for a clean and dry locker interior
- Removable in minutes for any airplane maintenance or inspections

System Aircraft Net Weight Changes

300/350 Individual Systems	Weight Change ±
4-Blade Aluminum Swept Blade Turbofan Props [SBTP]	-41.2 lbs
Dual Aft Body Strakes [DABS]	0.0 lbs
High Flotation Gear Doors [HFGD] (350 Only)	23.0 lbs
Crown Wing Locker System [CWLS]	109.0 lbs
200/B200/B200GT/250	
Swept Blade Turbofan Props [SBTP]	
Replacing OEM Hartzell 3-Blade Propeller	27.6 lbs
Replacing OEM Hartzell 4-Blade Aluminum Propeller	0.8 lbs
Replacing OEM Hartzell 4-Blade Composite Propeller	64.0 lbs
Replacing McCauley 4-Blade Propeller	6.6 lbs
Ram Air Recovery System [RARS]	5.0 lbs
Enhanced Performance Leading Edges [EPLE]	0.0 lbs
Dual Aft Body Strakes [DABS]	0.0 lbs
High Flotation Gear Doors [HFGD]	23.0 lbs
Crown Wing Locker System [CWLS]	109.0 lbs
100/A100/B100	
Quiet Turbofan Propeller System [TFPS]	
Model 100	44.8 lbs
Model A100	-37.2 lbs
Dual Aft Body Strakes [DABS]	0.0 lbs
High Flotation Gear Doors [HFGD]	
100/A100	9.0 lbs
B100	9.0 lbs
F90/F90-1	
Quiet Turbofan Propeller System [TFPS]	-47.8 lbs
Dual Aft Body Strakes [DABS]	0.0 lbs
High Flotation Gear Doors [HFGD]	9.0 lbs
90/A90/B90/C90/C90GTi/E90	
Swept Blade Turbofan Props [SBTP]	
Replacing OEM Hartzell 3-Blade Propeller	42.4 lbs
Replacing OEM Hartzell 4-Blade Propeller	8.4 lbs
Replacing McCauley 4-Blade Propeller	2.4 lbs
Dual Aft Body Strakes [DABS]	2.8 lbs
Crown Wing Locker System [CWLS]	111.0 lbs

2017 EPIC Performance Package Prices

Raisbeck Performance Systems are individually engineered to enhance specific operational areas of your King Air. We package 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. *Pricing is subject to change at any time.*

- Key:** SBTP Raisbeck/Hartzell Swept Blade Turbofan Props (200/C90/E90)
 TFPS Raisbeck/Hartzell Quiet Turbofan Power Props (100/A100/F90)
 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
 NWLS Nacelle Wing Locker System

		SBTP	RARS	EPLE	DABS	HFGD	CWLS	Customer Price	Package Savings	Average Install Time
EPIC PLATINUM <i>with Swept Blade Turbofan Propellers 200/B200/B200GT</i>	EPIC PLATINUM	●	●	●	●			\$ 170,795	\$ 40,000	210 hrs
	EPIC PLATINUM + CWLS	●	●	●	●		●	\$ 224,633	\$ 50,000	325 hrs
	EPIC PLATINUM + HFGD	●	●	●	●	●		\$ 216,626	\$ 45,000	290 hrs
	EPIC PLATINUM + CWLS + HFGD	●	●	●	●	●	●	\$ 265,464	\$ 60,000	405 hrs
EPIC GOLD* <i>200/B200/B200GT</i>	EPIC GOLD		●	●	●			\$ 96,071	\$ 15,000	175 hrs
	EPIC GOLD + CWLS		●	●	●		●	\$ 148,909	\$ 26,000	290 hrs
	EPIC GOLD + HFGD		●	●	●	●		\$ 141,902	\$ 20,000	255 hrs
	EPIC GOLD + CWLS + HFGD		●	●	●	●	●	\$ 195,739	\$ 30,000	370 hrs
C90/C90GT/C90GTi/ C90GTx/E90 EPIC <i>with Swept Props</i>	EPIC	●			●			\$ 109,253	\$ 13,750	70 hrs
	EPIC + CWLS	●			●		●	\$ 149,841	\$ 37,000	185 hrs
100/A100 EPIC	EPIC	TFPS			●			\$ 103,816	\$ 6,000	110 hrs
	EPIC + NWLS**	TFPS			●		NWLS	\$ 138,913	\$ 22,000	225 hrs
	EPIC + HFGD**	TFPS			●	●		\$ 138,647	\$ 22,000	190 hrs
	EPIC + NWLS + HFGD**	TFPS			●	●	NWLS	\$ 173,744	\$ 38,000	305 hrs

* EPIC GOLD applies only to aircraft equipped with Hartzell HC-E4N-3G/D9390SK-1R propellers (factory installed at BB-1509 and subs., BY-1 and subs., or earlier aircraft fitted with this Hartzell 4-blade aluminum propeller) or previously installed Raisbeck TFPS/SBTP. EPIC GOLD does not apply to King Air 250 aircraft.

NOTE: King Air 250 aircraft realize additional savings from the above pricing due to Raisbeck's RARS being factory installed.

** Please contact the Raisbeck Sales Team for availability of 100/A100 series HFGD and NWLS.

2017 Special Pricing

EPIC PACKAGE COMPLETION INCENTIVE or UPGRADE FROM POWER PROP PRICING

EPIC Package Completion or addition of Wing Lockers to a previously EPIC-equipped aircraft Incentive — Single System: If one system is required to complete any EPIC Package, the customer will receive the following reduction from the Customer Price for that System. Crown or Nacelle Wing Lockers are also included when Lockers are purchased for a previously EPIC-equipped aircraft. Owners who replace their original Raisbeck Power Props with Swept Blade Turbofan Propellers would be eligible for the same EPIC Package Completion Incentive regardless of EPIC status.

EPIC Package Completion – Single Raisbeck System	Customer Price	Customer Savings
Swept Blade Turbofan Propellers (200- and 90-Series King Airs)	\$ 95,974	\$ 3,750
Ram Air Recovery System (200-Series King Airs)	\$ 44,818	\$ 2,250
Enhanced Performance Leading Edges (200-Series King Airs)	\$ 38,725	\$ 2,000
Dual Aft Body Strakes	\$ 22,028	\$ 1,250
High Flotation Gear Doors	\$ 48,331	\$ 2,500
Crown Wing Lockers	\$ 60,588	\$ 3,250
Quiet Turbofan Propellers (90/100/200-Series King Airs)	\$ 84,788	\$ 1,750
Nacelle Wing Lockers	\$ 48,597	\$ 2,500

EPIC PLATINUM or EPIC GOLD Dual Aft Body Strakes Credit

For aircraft previously equipped with Dual Aft Body Strakes and no other EPIC Performance System, we offer a credit toward our EPIC PLATINUM and EPIC GOLD Packages. Aircraft equipped with Power Props and Dual Aft Body Strakes only are also eligible to upgrade to EPIC PLATINUM with Swept Blade Propellers utilizing the Dual Aft Body Strakes Credit. Nacelle or Crown Wing Lockers are not considered a Performance System Component and do not disqualify the credit allowance if installed.

Strakes Credit	Customer Price	Customer Savings
Dual Aft Body Strakes Credit	(\$11,639)	\$ 11,639
Example: EPIC PLATINUM with High Flotation Gear Doors after Dual Aft Body Strakes credit applied	\$ 204,987	\$ 11,639

2017 Special 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 except as noted under the EPIC Completion incentive at left.

System	Customer Price	Customer Savings
Swept Blade Turbofan Propellers (200/90-Series King Airs)	\$ 92,224	\$ 7,500
Quiet Turbofan Propellers (90/100/200/F90-Series King Airs)	\$ 83,038	\$ 3,500
Ram Air Recovery System (200-Series King Airs)	\$ 42,568	\$ 4,500
Enhanced Performance Leading Edges (200-Series King Airs)	\$ 36,725	\$ 4,000
Dual Aft Body Strakes	\$ 20,778	\$ 2,500
High Flotation Gear Doors	\$ 45,831	\$ 5,000
Crown Wing Lockers	\$ 57,388	\$ 6,500
Nacelle Wing Lockers	\$ 46,097	\$ 5,000

2017 Individual System Prices

350/300	Price	Average Install
Swept Blade Propellers, 4-Blade [SBTP]	\$ 99,724	35 hrs
Dual Aft Body Strakes [DABS]	\$ 23,278	35 hrs
High Flotation Gear Doors [HFGD] (350 Only)	\$ 50,831	80 hrs
Crown Wing Locker System [CWLS]	\$ 63,838	115 hrs

250/B200GT/B200/200	Price	Average Install
Swept Blade Turbofan Propellers [SBTP]	\$ 99,724	35 hrs
Ram Air Recovery System [RARS]	\$ 47,068	60 hrs
Enhanced Performance Leading Edges [EPLE]	\$ 40,725	80 hrs
Dual Aft Body Strakes [DABS]	\$ 23,278	35 hrs
High Flotation Gear Doors [HFGD]	\$ 50,831	80 hrs
Crown Wing Locker System [CWLS]	\$ 63,838	115 hrs

A100/100/B100	Price	Average Install
Power Props [TFPS – 100/A100 only]	\$ 86,538	75 hrs
Dual Aft Body Strakes [DABS]	\$ 23,278	35 hrs
High Flotation Gear Doors [HFGD]*	\$ 50,831	80 hrs
Nacelle Wing Locker System [NWLS]*	\$ 51,097	115 hrs

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

2017 Individual System Prices

F90-1/F90	Price	Average Install
Power Props [TFPS]	\$ 86,538	45 hrs
Dual Aft Body Strakes [DABS]	\$ 23,278	35 hrs
High Flotation Gear Doors [HFGD]	\$ 50,831	80 hrs
Nacelle Wing Locker System [NWLS – F90 only]*	\$ 51,097	115 hrs

* Please contact the Raisbeck Sales Team for availability of F90 NWLS.

C90GTx/C90GTI/C90GT/C90/B90/A90/E90	Price	Average Install
Swept Blade Turbofan Propellers [SBTP]	\$ 99,724	35 hrs
Dual Aft Body Strakes [DABS]	\$ 23,278	35 hrs
Crown Wing Locker System [CWLS]	\$ 63,838	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) Straight-Blade Raisbeck Power Props (TFPS) are still available for fleet operators and those who wish to stay with the older design.

If, for any reason, you are not satisfied with any of our products in the first 90 days after installation, remove it. We'll unquestionably refund your money.